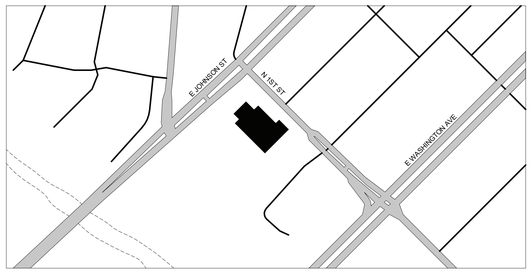
Exhibit-A: Drawings, dated June 09, 2023

BID DOCUMENTS
JUNE 09, 2023

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704
Contract No.: 8595
MUNIS No.: 10069



1 VICINITY MAP
G000 NOT TO SCALE

SHT NO	SHEET NAME
GENERAL	
G000	COVER
G001	ABBREVIATIONS & SYMBOLS
G002	MATERIAL ID REFERENCES
G003	TYPES AND SYSTEMS
G005	BUILDING CODE SUMMARY
G006	SUSTAINABILITY METRICS
CIVIL	
C000	NOTES & LEGENDS
C001	EXISTING CONDITIONS PLAN
C101	DEMOLITION PLAN
C201	EROSION CONTROL PLAN
C301	UTILITY PLAN
C401	CONSTRUCTION DETAILS
C402	CONSTRUCTION DETAILS
C403	CONSTRUCTION DETAILS
C404	CONSTRUCTION DETAILS
C405	CONSTRUCTION DETAILS
C406	CONSTRUCTION DETAILS
LANDSCAPE	
L001	FIRE ACCESS
L100	LAYOUT PLAN
L200	GRADING PLAN
L300	TREE PLANTING PLAN
L310	DETAIL PLANTING PLAN
L311	DETAIL PLANTING PLAN
L312	DETAIL PLANTING PLAN
L313	DETAIL PLANTING PLAN
L314	PLANT LISTS
L500	LANDSCAPE DETAILS
L501	HARDSCAPE DETAILS
STRUCTURAL	
S001	GENERAL NOTES
S002	SYMBOLS AND ABBREVIATIONS
S101	OVERALL FOUNDATION PLAN
S101N	FOUNDATION PLAN - NORTH
S101S	FOUNDATION PLAN - SOUTH
S102	OVERALL MEZZANINE FRAMING PLAN
S102N	MEZZANINE FRAMING PLAN - NORTH
S102S	MEZZANINE FRAMING PLAN - SOUTH
S103	OVERALL ROOF FRAMING PLAN
S103N	ROOF FRAMING PLAN - NORTH
S103S	ROOF FRAMING PLAN - SOUTH
S201	FOUNDATION DETAILS
S301	FRAMING DETAILS
S302	FRAMING DETAILS
S303	FRAMING DETAILS
ARCHITECTURAL DEMOLITION	
D101N	LEVEL 1 DEMOLITION - NORTH
D101S	LEVEL 1 DEMOLITION - SOUTH
D102N	MEZZANINE LEVEL DEMOLITION - NORTH
D102S	MEZZANINE LEVEL DEMOLITION - SOUTH
D103N	ROOF DEMOLITION - NORTH
D103S	ROOF DEMOLITION - SOUTH

SHT NO	SHEET NAME
D201	DEMOLITION ELEVATIONS
ARCHITECTURAL	
A001	SITE PLAN
A002	SITE PLAN
A101	LEVEL 1 & MEZZANINE LEVEL REFERENCE PLANS
A101N	LEVEL 1 - NORTH
A101S	LEVEL 1 - SOUTH
A102N	MEZZANINE LEVEL - NORTH
A102S	MEZZANINE LEVEL - SOUTH
A103	ROOF PLAN
A103N	ROOF PLAN - NORTH
A103S	ROOF PLAN - SOUTH
A110	LEVEL 1 - CANOPY STEEL PLAN
A121	LEVEL 1 & MEZZANINE REFERENCE REFLECTED CEILING PLANS
A121N	LEVEL 1 REFLECTED CEILING PLAN - NORTH
A121S	LEVEL 1 REFLECTED CEILING PLAN - SOUTH
A122N	MEZZANINE LEVEL REFLECTED CEILING PLAN NORTH
A122S	MEZZANINE LEVEL REFLECTED CEILING PLAN SOUTH
A151	TOILET ROOM PLANS AND ELEVATIONS
A152	TOILET ROOM PLANS AND ELEVATIONS
A161	ENLARGED PLANS - VESTIBULES
A162	ENLARGED PLANS - STORAGE
A201	BUILDING ELEVATIONS
A251	BUILDING SECTIONS
A252	BUILDING SECTIONS
A301	EXT. WALL SECTIONS
A302	EXT WALL SECTIONS
A351	EXTERIOR DETAILS
A352	EXTERIOR DETAILS
A353	EXTERIOR DETAILS
A401	TRASH AND LOADING AREA - PLANS AND ELEVATIONS
A402	TRASH AND LOADING AREA - SECTIONS AND DETAILS
A404	ANCILLARY BUILDING
A461	VERTICAL CIRCULATION - STAIR A & PLATFORM LADDERS
A462	VERTICAL CIRCULATION - STAIR B
A463	VERTICAL CIRCULATION - STAIR DETAILS SECTIONS AND DETAILS
A464	VERTICAL CIRCULATION - STAIR DETAILS
A501	INTERIOR ELEVATIONS - ENTRY HALL
A502	INTERIOR ELEVATIONS - MAIN HALL
A503	INTERIOR ELEVATIONS - SOUTH HALL
A504	INTERIOR ELEVATIONS - SOUTH HALL AND LOWER MEZZANINE
A505	INTERIOR ELEVATIONS - STORAGE
A521	INTERIOR PATTERNS
A531	INTERIOR CANOPY SECTIONS
A532	INTERIOR CANOPY SECTIONS
A533	INTERIOR CANOPY SECTIONS
A534	INTERIOR CANOPY SECTIONS
A535	INTERIOR WALL SECTIONS
A551	INTERIOR DETAILS
A552	INTERIOR DETAILS
A553	INTERIOR DETAILS
A554	INTERIOR DETAILS
A561	INTERIOR PLAN DETAILS
A562	INTERIOR PLAN DETAILS
A601	DOOR SCHEDULE, TYPES AND DETAILS
A651	WINDOW TYPES AND DETAILS
A652	WINDOW TYPES AND DETAILS
A653	WINDOW TYPES AND DETAILS
A701N	LEVEL 1 FINISH PLAN - NORTH
A701S	LEVEL 1 FINISH PLAN - SOUTH
A702S	MEZZANINE LEVEL FINISH PLAN - SOUTH
A750	SIGNAGE SCHEDULE AND NOTES
A751	SIGNAGE PLANS
A752	SIGNAGE ELEVATIONS
A801	LEVEL 1 & MEZZANINE MILLWORK REFERENCE PLANS
A802	ENLARGED MILLWORK PLANS
A851	MILLWORK ELEVATIONS
A852	MILLWORK ELEVATIONS
A853	MILLWORK SECTIONS
A854	MILLWORK SECTIONS
A901N	LEVEL 1 FURNITURE PLAN - NORTH - REFERENCE ONLY
A901S	LEVEL 1 FURNITURE PLAN - SOUTH
A902S	MEZZANINE LEVEL FURNITURE PLAN - SOUTH
ARCHITECTURAL	
IEQp8.2-1	LEED v3 - IEQp8.2 - VIEWS PLANS
IEQp8.2-2	LEED v3 - IEQp8.2 - VIEWS PLAN
IEQp8.2-3	LEED v3 - IEQp8.2 - VIEWS ELEVATIONS
IEQp8.2-4	LEED v3 - IEQp8.2 - VIEWS SECTIONS
PR3	LEED v3 OCCUPIED FLOOR AREAS
ARCHITECTURAL	
A001-CITY	ARCHITECTURAL SITE PLAN
TENANT 1	LEVEL 1 TENANT COORDINATION PLAN
TENANT 2	LEVEL 2 TENANT COORDINATION PLAN
ELECTRICAL DEMOLITION	
ED101N	LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - NORTH
ED101S	LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - SOUTH
ED102	MEZZANINE LEVEL POWER AND SYSTEMS DEMOLITION PLAN
ELECTRICAL - ARCHITECTURAL LIGHTING	
EL001	LIGHTING COVER SHEET
EL002	LUMINAIRE SCHEDULES
EL003	LIGHTING CONTROLS SHEET
EL100	SITE LIGHTING PLAN
EL101	SITE PHOTOMETRIC PLAN
EL102	EXTERIOR LUMINAIRE SCHEDULE AND CUTS
EL103	EXTERIOR LUMINAIRE CUTS
EL121N	LEVEL 1 LIGHTING PLAN - NORTH
EL121S	LEVEL 1 LIGHTING PLAN - SOUTH
EL122N	LEVEL 2 LIGHTING PLAN - NORTH
EL122S	LEVEL 2 LIGHTING PLAN - SOUTH
ELECTRICAL	
E000	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
E100	ELECTRICAL SITE PLAN
E101N	LEVEL 1 POWER AND SYSTEMS PLAN - NORTH
E101S	LEVEL 1 POWER AND SYSTEMS PLAN - SOUTH
E102N	MEZZANINE LEVEL POWER AND SYSTEM PLAN - NORTH

SHT NO	SHEET NAME
E102S	MEZZANINE LEVEL POWER AND SYSTEMS PLAN - SOUTH
E103	ROOF POWER AND SYSTEMS PLAN
E111N	LEVEL 1 LIGHTING POWER PLAN - NORTH
E111S	LEVEL 1 LIGHTING POWER PLAN - SOUTH
E112N	LEVEL 2 LIGHTING POWER PLAN - NORTH
E112S	LEVEL 2 LIGHTING POWER PLAN - SOUTH
E201N	LEVEL 1 FIRE DETECTION PLAN - NORTH
E201S	LEVEL 1 - FIRE DETECTION PLAN - SOUTH
E202S	MEZZANINE LEVEL FIRE DETECTION PLAN - SOUTH
E401	ENLARGED ELECTRICAL PLANS
E501	ELECTRICAL ONE-LINE DIAGRAM
E502	ELECTRICAL DETAILS
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
MECHANICAL DEMOLITION	
MD101N	LEVEL 1 MECHANICAL DEMOLITON - NORTH
MD101S	LEVEL 1 MECHANICAL DEMOLITON - SOUTH
MD102N	MEZZANINE LEVEL MECHANICAL DEMOLITION - NORTH
MD102S	MEZZANINE MECHANICAL DEMOLTION - SOUTH
MD103N	ROOF MECHANICAL DEMOLITON - NORTH
MD103S	ROOF MECHANICAL DEMOLITON - SOUTH
MECHANICAL	
M001	MECHANICAL NOTES, LEGENDS & ABBREVIATIONS
M101N	LEVEL 1 MECHANICAL DUCTWORK - NORTH
M101S	LEVEL 1 MECHANICAL DUCTWORK - SOUTH
M102N	MEZZANINE MECHANICAL DUCTWORK - NORTH
M102S	MEZZANINE MECHANICAL DUCTWORK - SOUTH
M201N	LEVEL 1 MECHANICAL PIPING - NORTH
M201S	LEVEL 1 MECHANICAL PIPING - SOUTH
M202N	MEZZANINE MECHANICAL PIPING - NORTH
M202S	MEZZANINE MECHANICAL PIPING - SOUTH
M303N	ROOF MECHANICAL - NORTH
M303S	ROOF MECHANICAL - SOUTH
M401	ENLARGED MECHANICAL PLANS
M402	MECHANICAL SECTIONS
M403	MECHANICAL SECTIONS
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
M701	MECHANICAL SCHEMATICS
M702	MECHANICAL SCHEMATICS
M703	MECHANICAL SCHEMATICS
PLUMBING DEMOLITION	
PD100N	LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - NORTH
PD100S	LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - SOUTH
PD101N	LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - NORTH
PD101S	LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - SOUTH
PD102N	MEZZANINE PLUMBING DEMOLITION - NORTH
PD102S	MEZZANINE PLUMBING DEMOLITION - SOUTH
PD103N	ROOF PLUMBING DEMOLITION - NORTH
PD103S	ROOF PLUMBING DEMOLITION - SOUTH
PLUMBING	
P001	PLUMBING LEGENDS, SYMBOLS & ABBREVIATIONS
P010	PLUMBING SITE PLAN
P100N	LEVEL 1 PLUMBING BELOW GRADE - NORTH
P100S	LEVEL 1 PLUMBING BELOW GRADE - SOUTH
P101N	LEVEL 1 PLUMBING ABOVE GRADE - NORTH
P101S	LEVEL 1 PLUMBING ABOVE GRADE - SOUTH
P102N	MEZZANINE PLUMBING - NORTH
P102S	MEZZANINE PLUMBING - SOUTH
P103N	ROOF PLUMBING - NORTH
P103S	ROOF PLUMBING - SOUTH
P401	ENLARGED PLUMBING PLANS
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P602	PLUMBING SCHEDULES
P701	PLUMBING SANITARY ISOMETRICS
P702	PLUMBING STORM ISOMETRICS
P703	PLUMBING WATER SUPPLY ISOMETRICS
FIRE PROTECTION DEMOLITION	
FD101N	LEVEL 1 DEMOLITION - FIRE PROTECTION - NORTH
FD101S	LEVEL 1 DEMOLITION - FIRE PROTECTION - SOUTH
FD102N	MEZZANINE DEMOLITION - FIRE PROTECTION - NORTH
FD102S	MEZZANINE DEMOLITION - FIRE PROTECTION - SOUTH
FIRE PROTECTION	
F000	FIRE PROTECTION COVER SHEET
F101N	LEVEL 1 - FIRE PROTECTION - NORTH
F101S	LEVEL 1 - FIRE PROTECTION - SOUTH
F102N	MEZZANINE LEVEL - FIRE PROTECTION - NORTH
F102S	MEZZANINE LEVEL - FIRE PROTECTION - SOUTH
F200	FIRE PROTECTION DETAILS AND SCHEDULES
TECHNOLOGY	
T000	TECHNOLOGY COVER SHEET
T050	SITE PLAN - TECHNOLOGY
T101N	LEVEL 1 - TECHNOLOGY - NORTH
T101S	LEVEL 1 -TECHNOLOGY - SOUTH
T102N	MEZZANINE LEVEL - TECHNOLOGY - NORTH
T102S	MEZZANINE LEVEL - TECHNOLOGY - SOUTH
T300	TECHNOLOGY DETAILS
T400	TECHNOLOGY RISERS AND SCHEDULES
T500	TECHNOLOGY SCHEDULES
FOOD SERVICE	
FS101	FOOD SERVICE EQUIPMENT PLAN
FS201	ELECTRICAL ROUGH-INS
FS301	PLUMBING ROUGH-INS
FS401	SPECIAL CONDITIONS PLAN
FS501	FOOD SERVICE ELEVATIONS

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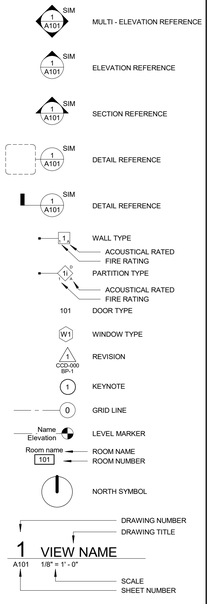
PUBLIC IMPROVEMENT PROJECT APPROVED:	PUBLIC IMPROVEMENT DESIGN APPROVED BY:
RES-XX-00XXX	
FILE ID XXXXX	CITY ENGINEER
DATE- MONTH DAY, YEAR	MONTH DAY, YEAR
BY THE COMMON COUNCIL OF MADISON, WI	DATE

DRAFTING SYMBOLS



ABBREVIATIONS

A	
A/E	Architect and/or Engineer
AB	Anchor Bolt
ABV	Above
AC	Air Conditioning
ACFL	Access Floor
ACOUS	Acoustical
ACT	Acoustical Ceiling Tile
AD	Access Door
ADDL	Additional
ADJ	Adjacent
ADJST	Adjustable
ADMIN	Administration
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
AMEND	Amendment
ANC	Anchor
AP	Access Panel
APC	Architectural Precast Concrete
APROX	Approximately
ARCH	Architectural
AUTO	Automatic
AV	Audio Visual
AVG	Average
AWT	Acoustical Wall Treatment
B	
B&B	Bailed and Burlapped
BA	Building Accessory
BD	Board
BIT	Bituminous
BL	Brick Ledge
BLDG	Building
BLKG	Blocking)
BM	Beam or Bench Mark
BO	By Owner
BOF	Bottom of Footing
BOS	Bottom of Slab
BOS	Bottom of Steel
BOT	Bottom
BPL	Bearing Plate
BR	Brick
BRC	Brick Course
BRG	Bearing
BSMT	Basement
BTWN	Between
BUR	Built up Roof
C	
C	Course
C/C	Center to Center
CAB	Cabinet
CANT	Cantilever
CAT	Category
CB	Catch Basin
CE	Civil Engineer
CEM	Cement
CER	Ceramic
CF	Cubic Feet
CFS	Cubic Feet per Second
CG	Corner Guard
CHNL	Channel
CI	Cast-Iron
CIP	Cast-In-Place
CIR	Circle
CJ	Control Joint
CL	Centerline
CLNG	Ceiling
CLO	Closet
CLR	Clear(ance)
CM	Construction Manager
CMU	Concrete Masonry Unit
CO	Cased Opening
CO	Clean Out
COL	Column
COM	Communication
COMP	Composite
COMPR	Compressible
CONC	Concrete
COND	Condition
CONF	Conference
CONN	Connection
CONST	Construction
CONT	Contiue (ous) (ation)
CORR	Corridor
CPT	Carpet
CSK	Countersunk
CT	Ceramic Tile
CTR	Center
CU	Cubic
CUH	Cabinet Unit Heater
CW	Cold Water
CW	Curtain Wall
D	
DBL	Double
DEG	Degree
DEMO	Demolition
DEPT	Department
DF	Drinking Fountain
DIA	Diameter
DIAG	Diagonal
DIFF	Diffuser
DIM	Dimension
DISP	Dispenser
DIST	Distribution
DIV	Division or Divider
DL	Dead Load
DN	Down
DR	Door
DS	Downspout
DTL	Detail
DW	Dishwasher
DWG	Drawing
DWL	Dower
DWTR	Dumbwaiter
E	
E	East
EA	Each
EF	Exhaust Fan
EGEN	Emergency Generator
EIFS	Exterior Insulation & Finish System
EJ	Expansion Joint
EL	Elevation
ELEC	Electric(al)
ELEV	Elevator
EMER	Emergency
E TR	Entrance
EO	Electrial Outlet
EOS	Edge of Slab
EPD	Ethylene Propylen Dien Monomer
EQ	Equal
EQUIP	Equipment
ESTB	Established
EW	Each Way
EWC	Electric Water Cooler
EXC	Excavate(d), Excavation
EXH	Exhaust
EXIST/EX	Existing
EXP	Expansion
EXT	Exterior
F	
FA	Fire Alarm
FBR	Face of Brick
FC	Face
FD	Floor Drain
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Finished Face, Face of Wall
FFE	Finish Floor Elevation
FFL	Finish Floor Level
FHC	Fire Hose Cabinet
FIN	Finish
FIXT	Fixture
FLASH	Flashing
FLEX	Flexible
FLR	Floor(ing)
FLUOR	Fluorescent
FN	Fence
FND	Foundation
FO	Finished Opening
FOC	Face of Concrete
FOM	Face Masonry
FOS	Face of Studs / Steel
FP	Fireproofing
FPL	Fireplace
FRP	Fiberglass Reinforce Plastic Panel
FRT	Fire Retardant Treated
FT	Foot or Feet
FTG	Footing
FTR	Fine Tube Radiation / Radiator
FUR	Furring
FT	Future
FWC	Fabric Wall Covering
G	
G	Gas
GA	Gauge
GAL	Gallon
GALV	Galvanized
GAR	Garage
GB	Grab Bar
GC	General Contractor
GEN	General
GEN	Generator
GFRP	Gypsum Fiberglass Reinforce Panel
GL	Glazing
GLU	Glue Laminated
GYP	Gypsum
GWB	Gypsum Wall Board
H	
H	High
HB	Hose Bib
HC	Handicap
HDR	Header
HDWD	Hardwood
HDWR	Hardware
HM	Hollow Metal
HOR	Horizontal
HR	Handrail
HT	Height
HTR	Heater
HVAC	Heating / Ventilation / Air Conditioning
HYD	Hydrant
HW	Hot Water
HWH	Hot Water Heater
I	
ID	Inside Diameter
IN	Inch
INCL	Include(ing)
INFO	Information
INSUL	Insulation
INT	Interior
J	
JAN	Janitor
JBOX	Junction Box
JC	Janitor's Closet
JST	Joist
JT	Joint
K	
KIT	Kitchen
KO	Knockout
L	
L	Long, Length
LAB	Laboratory
LAM	Laminate, Lamination
LAV	Lavatory
LB	Pound
LCD	Linear Ceiling Diffuser
LF	Linear Foot
LH	Left Hand
LHR	Left Hand Reverse
LIN	Linear
LINO	Linoleum
LL	Live Load
LOC	Location
LONG	Longitudinal
LTG	Lighting
LVR	Louver
M	
MAS	Masonry
MAT	Walk Off Mat
MATL	Material
MAX	Maximum
MC	Medicine Cabinet
MDF	Medium Density Fiberboard
MDO	Medium Density Overlay
MECH	Mechanical
MEMB	Membrane
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MR	Moisture Resistant
MTD	Mounted
MTL	Metal
MUL	Mullion
MW	Millwork
MWA	Millwork Accessory
N	
N	North
NA	Not Applicable
NIC	Not in Contract
NO	Number
NOM	Nominal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
O	
OA	Overall
OC	On Center
OCD	Overhead Coiling Door
OD	Outside Diameter
OFCI	Owner Furnished - Contractor Installed
OFOI	Owner Furnished - Owner Installed
OH	Overhead
OHD	Overhead Door
OP	Operable Partition
OPG	Opening
OPP	Opposite
OPT	Optional
ORD	Overflow Roof Drain
P	
PA	Public Address
PAR	Parallel
PBD	Partical Board
PC	Precast Concrete
PERIM	Perimeter
PERP	Perpendicular
PFM	Pre-Formed
PFN	Pre-Finished
PKG	Parking
PL	Plate
PL	Property Line
PLAM	Plastic Laminate
PLAS	Plaster
PLBG	Plumbing
PLF	Pound per Linear Foot
PLYWD	Plywood
PNL	Panel
PR	Pair
PREFAB	Prefabricated
PRELIM	Preliminary
PROJ	Projections
PSI	Pound per Square Inch
PT	Paint
PTN	Partition
PVC	Polyvinyl Chloride
Q	
QT	Quarry Tile
QTR	Quarter
QTY	Quantity
R	
R	Radius
RA	Return Air
RAD	Radiator
RB	Rubber Base
RCP	Reflected Ceiling Plan
RD	Roof Drain
REC	Recessed
RECT	Rectangular
REF	Reference
REF	Refrigerator
REG	Register
REINF	Reinforce (ment) (ing)
REQD	Required
REV	Reverse
RF	Resilient Floor
RFH	Roof Hatch
RFV	Roof Vent
RH	Right Hand
RHR	Right Hand Reverse
RM	Room
RND	Round
RO	Rough Opening
ROW	Right of Way
RT	Rubber Tile
RWL	Rain Water Leader
S	
S	South
SA	Supply Air
SAN	Sanitary
SC	Solid Core
SCHED	Schedule
SD	Storm Drain
SECT	Section
SF	Square Foot
SFRNT	Storefront
SHR	Shower
SHT	Sheet
SHTG	Sheathing
SIM	Similar
SLNT	Sealant
SM	Surface Mount
SMTL	Sheet Metal
SOG	Slab on Grade
SP	Space(ing)
SPEC	Specifications
SQ	Square
SS	Stainless Steel
S	
SSF	Solid Surface
SSK	Service Sink
ST	Stone Tile
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STN	Stone
STOR	Storage
STRUCT	Structural
SUBFL	Subfloor(ing)
SUSP	Suspended
SYM	Symmetry, Symmetrical
SYS	System
T	
T	Tread
T&G	Tongue & Grooved
TAN	Tangent
TBD	To Be Determined
TD	Trench Drain
TEMP	Temporary
TERE	Terrazzo
THK	Thick(ness)
THRES	Threshold
TOB	Top of Beam
TOC	Top of Concrete or Curb
TOD	Top of Deck
TOF	Top of Footing
TOJ	Top of Joist
TOM	Top of Masonry
TOP	Topping
TOS	Top of Slab
TOS	Top of Steel
TOW	Top of Wall
TRTD	Treated
TS	Tube Steel
TYP	Typical
U	
UC	Undercut
UFIN	Unfinished
UG	Underground
UNO	Unless Noted Otherwise
UPH	Upholstery
UR	Urinal
UTIL	Utility
V	
VAR	Varies
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIN	Vinyl
VNR	Veneer
VR	Vapor Retarder
VT	Vinyl Tile
VWC	Vinyl Wall Covering
W	
W	West
W	Wide, Width
W/	With
W/O	Without
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WG	Wall Guard
WHTR	Water Heater
WP	Waterproof(ing)
WR	Waster Receptacle
WS	Weather-Strip(ing)
WSCT	Wainscot
WT	Window Treatment

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1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.

1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.

1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier

7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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ABBREVIATIONS & SYMBOLS

G001

MATERIAL / ID LIST NOTES

1. INFORMATION IN SCHEDULE IS FOR REFERENCE ONLY. INFORMATION IS SUMMARY AND NOT COMPLETE. REFER TO PROJECT MANUAL FOR FULL SPECIFICATION INFORMATION FOR ALL MATERIALS AND PRODUCTS.
2. INFORMATION IN PROJECT MANUAL SPECIFICATIONS SHALL SUPERCEDE INFORMATION IN THIS SCHEDULE IN THE EVENT OF ANY DISCREPANCIES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TRADES REFER TO FULL SPECIFICATIONS IN PROJECT MANUAL.
3. THIS SCHEDULE INCLUDES OWNER PROVIDED EQUIPMENT - REFER TO EQUIPMENT LIST IN PROJECT MANUAL.

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	SPEC SECTION	Spec Data
ACPNL-1	RIGID BOARD ACOUSTIC INSULATION	057500	MFR: OWENS CORNING MODEL: SELECT SOUND BLACK ACOUSTIC BOARD THICKNESS: 2";
ACRYLIC-1	SOLID ACRYLIC PANEL	095113	MFR: PLAZIT POLYGAL; STYLE: SOLID ACRYLIC SHEET; MODEL: PLAZCRYL; COLOR: CLEAR w/ FILM-1 ; THICKNESS: 10MM; NOTEs: PROVIDE MANUF'S STANDARD EDGE TRIM AND COMPATIBLE DUAL CHANNEL CONNECTOR FOR JOINTS;
ACRYLIC-2A	ACRYLIC - SIGNAGE	10 14 23	MFR:ENCOMPASS; STYLE:ECO-PRESS ACRYLIC ; GAUGE: 1/8" THICK; PAINTED TO MATCH PT-A; NOTES: SEE SIGNAGE SHEETS AND DETAILS;
ACRYLIC-2B	ACRYLIC - SIGNAGE	10 14 23	MFR:ENCOMPASS; STYLE:ECO-PRESS ACRYLIC ; GAUGE: 1/8" THICK; PAINTED TO MATCH PT-B; NOTES: SEE SIGNAGE DETAILS FINISH TO BE STANDARD SUEDE;
ACRYLIC-3A	ADA RAISED LETTERING AND BRAILLE	10 14 23	MFR:DESIGNER SIGN; STYLE: STANDARD TEXT AND BACKGROUND ADA COLORS; COLOR: 3X1-413 CINDER; NOTEs: SEE SIGNAGE DETAILS;
ACRYLIC-3B	ADA RAISED LETTERING AND BRAILLE	10 14 23	MFR:DESIGNER SIGN; STYLE: STANDARD TEXT AND BACKGROUND ADA COLORS; COLOR: 3X1-305 LIGHT GREY; NOTEs: SEE SIGNAGE DETAILS;
ACTU-1	DOOR ACTUATOR	087100	MFR: BEA; STYLE: 36 inch full length actuator; MODEL: LPR36; COLOR: CLEAR COAT STAINLESS STEEL ;
ACTU-2	DOOR ACTUATOR	087100	MFR: BEA; STYLE: 4.75 inch actuator; MODEL: 4.75 IN SQUARE PUSH PLATE; COLOR: CLEAR COAT STAINLESS STEEL ;
ALUM-1	ALUMINUM SPANDREL PANEL	084413	
ART-1	PICTURE HANGER REVEAL	092900	MFR: FRY REGLET; STYLE: DA-10 RECESSED PICTURE HANGING SYSTEM; COLOR: MATCH WALL; ACCESSORIES: DRMH-50, QTY (20);
BAFL-1	ACOUSTIC CEILING BAFFLE	098436	MFR: TURF; STYLE: Drop, Large; COLOR: 04 Light Grey;
BALE-1	LOW HEADROOM CARDBOARD BALER	EQUIPMENT	LOW-PROFILE VERTICAL BALER BASIS OF DESIGN:; MANUF: BRAMIDAN; MODEL: X25; FINISH: SUBMIT MANUF'S STANDARD COLOR CHART FOR SELECTION; DIMENSIONS: 69"W X 50" D X 79"H; BALE SIZE: 48" W X 30"D X 30" H; POWER: 208/230/480V 3-PHASE
BIN-1	WASTE COLLECTION CART	EQUIPMENT	OWNER PROVIDED EQUIPMENT BASIS OF DESIGN; MFR: GLOBAL INDUSTRIAL; STYLE: DELUXE GRAY PLASTIC TILT TRUCK; CAPACITY: 1/2 CUBIC YARD - 750LB; SIZE: 46"L X 31" W X 33" H COLOR: GRAY
BIN-2	RECYLCING COLLECTION CART	EQUIPMENT	OWNER PROVIDED EQUIPMENT BASIS OF DESIGN; MFR: GLOBAL INDUSTRIAL; STYLE: DELUXE BLUE PLASTIC RECYCLING TILT TRUCK; CAPACITY: 1/2 CUBIC YARD - 750LB; SIZE: 46"L X 31" W X 33" H COLOR: BLUE
BOLL-1	LIFT-1 MANUF'S BUMPER POST	111319	MFR: Type info here and keep semicolon at end; STYLE: Type info here and keep semicolon at end; COLOR: Type info here and keep semicolon at end;
BOLL-2	STEEL BOLLARD WITH CONCRETE FILL	055000	SIZE: 8IN DIAMETER; MATERIAL: STEEL WITH CONCRETE INFILL; INSTALL: EMBEDDED;
BOLT-1	HEAVY-DUTY CANE BOLT	050520	MFR: ABBEY TRADING; MODEL: ABB-520-300-GARAGEBOLT; SIZE: 12-1/2"; MATERIAL: STEEL; FINISH: BLACK; ACCESSORY: GROUND PLATE;
BRKT-1	WALL BRACKET	064023	MFR:MOCKETT; MODEL: SWS4B - 21" MEDIUM BASIC WORK SURFACE SUPPORT; FINISH:GREY (92) ;
CMU-1	CONCRETE MASONRY UNIT	042000	CONCRETE MASONRY UNIT IN SIZES AND CONFIGURATION AS INDICATED ON DRAWINGS. REFERENCE SPECIFICATIONS
CMU-2A	GLAZED BLOCK (CMU)	042000	MFR: Spectra Glaze; PRODUCT: 4" GLAZED BLOCK - SINGLE SIDE; MODEL: 4S COLOR: LT Olive; NOMINAL SIZE: 4"W X 8"H X 16"L
CMU-2B	GLAZED BLOCK COVED BASE (CMU)	042000	MFR: Spectra Glaze; PRODUCT; 4" GLAZED BLOCK - SINGLE SIDED WITH COVE BASE MODEL: 4G COLOR: LT Olive; NOMINAL SIZE: 4"W X 8"H X 16"L
CMU-2C	GLAZED BLOCK COVED BASE CAP (CMU)	042000	MFR: Spectra Glaze; PRODUCT; 4" GLAZED BLOCK - SINGLE SIDED WITH COVE BASE MODEL: 1-4VGCC0 COLOR: LT Olive; NOMINAL SIZE: 1"W X 16"H X 4"L
CMU-2D	GLAZED BLOCK EDGE CAP (CMU)	042000	MFR: Spectra Glaze; PRODUCT; 4" GLAZED BLOCK - SINGLE SIDED WITH COVE BASE MODEL: 1-4CCO COLOR: LT Olive; NOMINAL SIZE: 1"W X 16"H X 4"L
CMU-2E	GLAZED BLOCK DOUBLE SIDED (CMU)	042000	MFR: Spectra Glaze; PRODUCT; 4" GLAZED BLOCK - SINGLE SIDED WITH COVE BASE MODEL: 4ST COLOR: DP Olive; NOMINAL SIZE: 8"W X 16"H X 4"L
CMU-3	CONCRETE MASONRY UNIT (CMU) - SOLID	042000	SOLID CONCRETE MASONRY UNIT IN SIZES AND CONFIGURATIONS AS SHOWN IN DRAWINGS. REFER TO SPECIFICATIONS
CNPY-1	CANOPY	084413	MFR: CWALL-1 MFR; COLOR: BLACK ANODIZED TO MATCH CURTAINWALL; DEPTH: 30 INCHES; SIZING: PER DETAILS; DELEGATED DESIGN BY INSTALLER/MFR;
COAT-1A	ARCHITECTURAL COATING	072419	MFR: DRYVIT; STYLE: DEMANDIT SANDED; APPLICATION: SPRAY OR BRUSH APPLIED; COLOR RGB: 208,210,208; COLOR RAL: 7047;
COAT-1B	ARCHITECTURAL COATING	072419	MFR: DRYVIT; STYLE: DEMANDIT SANDED; APPLICATION: SPRAY OR BRUSH APPLIED; COLOR RGB:76,78,77; COLOR RAL: 7043;
COAT-2	ELASTOMERIC ARCHITECTURAL COATING AND RESTORATION	099653	MFR: DRYVIT; STYLE: WEATHERLASTIC - SANDPEBBLE; APPLICATION: TROWEL-APPLIED; COLOR: WHITE;
COIL-1	OVERHEAD COILING DOOR	083323	MFR: RAYNOR; STYLE: DURACOIL; SLATS: FLAT (FF); FINISH: ARMOR BRITE POWDERCOAT, COLOR TBD;
COIL-2	OVERHEAD COILING SHUTTER	083313	MFR: RAYNOR; STYLE: DURASHUTTER; MODEL: CP; CONSTRUCTION: 22 GA STEEL, FLAT PROFILE, SLIP-IN; COLOR: TBD ; SECURITY: LOCKABLE; OPERATION: CRANK;
COIL-3	OVERHEAD COILING GRILLE	08 33 26	MFR: RAYNOR; STYLE: DURAGRILLE; SECURITY: SLIDE BOLT LOCK, LOCKABLE FROM INTERIOR; OPERATION: MANUAL; FINISH: CLEAR ANODIZED; MOUNT: FACEMOUNT; GRILLE PATTERN: GSA STRAIGHT PATTERN;
CONC-1	SEALED CAST IN PLACE CONCRETE	096723 / 033543	NEW CAST IN PLACE CONCRETE WITH FINISHES AS INDICATED ON DRAWINGS - REFER TO SPECIFICATIONS
CONC-2	POLISHED CONCRETE	033543	EXISTING CONCRETE SLABS WITH VARIOUS NEW FINISHES AS DESCRIBED IN DRAWINGS. REFERENCE SPECIFICATIONS
CORK-1	TACKABLE WALL PANEL	101100	MFR: FORBO PRODUCT: BULLETIN BOARD; COLOR: BLACK OLIVE; CONTENT: cork, linseed oil, jute; THICKNESS: 6.0 mm; ROLL DIMENSIONS: 1.22 m X ≤ 28 m; RECYCLED CONTENT: 43%
CPT-1	WALK OFF CARPET TILE	096813	MFR: MOHAWK; STYLE:First Step II, GT315/QL315; COLOR: 989 OBSIDIAN;
CPT-2	CARPET TILE	096813	MFR: Interface; STYLE:Step It Up; INSTALL: Ashlar; COLOR: 106335 Coal;
CT-1	CERAMIC WALL TILE	093013	MFR: Nemo; STYLE: Seta; COLOR: 10 Olivia; SIZE: 1/2"x1/2";
CT-2	CERAMIC WALL TILE	093013	MFR: Fireclay Tile; STYLE: Picket; SIZE: 9-13/16" x 3-3/4" COLOR: Spruce Gloss (V3); BODY: Recycled Clay; INSTALL PATTERN: Braid;
CWALL-1	GLAZED ALUMINUM CURTAIN WALL SYSTEM	084413	MFR: KAWNEER ALUMINUM CURTAINWALL SYSTEM; MODEL: 1600 WALL SYSTEM 1; COLOR: BLACK ANODIZED
DM-1	DRAINAGE MAT	071416	MFR: HENRY CO; PRODUCT: DB 200;
DUMP-1	SELF COMPACTING DUMPSTER	EQUIPMENT	OWNER PROVIDED EQUIPMENT;
EIFS-1	EXTERIOR INSULATION AND FINISH SYSTEMS	072419	MFR: DRYVIT; REINFORCING MESH: PANZER MEZH 20 oz.; WEATHER BARRIER: BACKSTOP NT-VB SPRAY; BASE COAT: DRYFLEX; TOP COAT: DEMANDIT; COLOR: PER ELEVATIONS;
EIFS-2	EXTERIOR INSULATION AND FINISH SYSTEMS	072419	MFR: DRYVIT; STYLE: NONCEMENTICIOUS BASE COAT (NCB); COLOR: PER ELEVATIONS; TEXTURE: FREESTYLE;

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	SPEC SECTION	Spec Data
ELEV-1	PUBLIC / SERVICE ELEVATOR	142400	MFR: THYSSENKRUPP; MODEL: ENDURA MRL; STYLE: TWINPOST, ABOVE GROUND, 1-STAGE; SPEED: 80 FPM; CAPACITY: 5,000 LB; OPENINGS: FRONT & REAR ALIGNED; DOOR TYPE: 4'-6" TWO-SPEED, RH, LH; WALL/ENTRY FINISH: #4 BRUSHED STAINLESS STEEL; CEILING: METAL PAN DOWNLIGHT; ACCESSORY: 2" FLAT BAR HANDRAIL;
EPDM-1	EPDM ROOF MEMBRANE	075323	MATCH EXISTING; MANUF: FIRESTONE; STYLE: 60 MIL EPDM; COLOR:WHITE;
EPOXY-1	RESINOUS FLOORING	096723	MFR: SHERWIN WILLIAMS; MODEL: RESUFLOR MPE, PT & RESUTILE HTS 100 (SATIN); COLOR: TO MATCH EXISTING EPOXY FLOORING;"
FEC-1	FIRE EXTINGUISHER CABINET - SURFACE MOUNTED	104416	MFR: ; PRODUCT: SURFACE-MOUNTED FIRE EXTINGUISHER CABINET; MATERIALS: STEEL;
FEC-2	FIRE EXTINGUISHER CABINET - SEMI RECESSED	104416	MFR: ; PRODUCT: SEMI-RECESSED FIRE EXTINGUISHER CABINET; MATERIALS: STEEL;
FENCE-1	METAL FENCES AND GATES	323119	MANF: AMETCO ; PRODUCT: EAGLE DESIGN GALVANIZED METAL FENCE; TOP STYLE: STRAIGHT TOP PICKET; HEIGHT: 8'-0"; COLOR: BLACK; GATES: DOUBLE CANILEVER, SINGLE CANTILEVER, AND SINGLE SWING, MANUAL OPERATION;
FENCE-2	CHAIN LINK FENCE AND GATES	323113	MFR: AMERICAN FENCE CO; PRODUCT: VINYL-COATED CHAIN LINK FENCE; HEIGHT: 8'-0"; COLOR: BLACK; ACCESSORIES: BLACK PRIVACY SLATS THROUGHOUT, BLACK COVER CAPS ; GATES: DOUBLE & SINGLE CANTILEVER, MANUAL OPERATION, PRIVACY SLATS;
FILM-1	PVC-FREE VINYL FILM	085313	PRODUCT:ALUMIGRAPHICS SMOOTH ; APPLICATION: VERTICAL; COLOR: WHITE; TYPE: ALUMINUM FOIL BASE MEDIA; LOCATIONS: ON GLASS AS INDICATED IN DRAWINGS;
FLASH-1	ALUMINUM BRAKE FRAMED FLASHING - PREFINISHED	076200	
FLASH-2A	GALVANIZED STEEL BRAKE FORMED FLASHING. PREFINISHED	076200	
FLASH-2B	GALVANIZED STEEL BRAKE FORMED SHEET. PREFINISHED	076200	COLOR: TO MATCH CWALL-1 ALUM FRAME;
GL-1	1" INSULATED GLASS UNIT	088000	MRF: OLDCASTLE; STYLE: SOLARBAN 60; COLOR: CLEAR + CLEAR; SPACER COLOR: BLACK;
GL-2	1" INSULATED GLASS UNIT WITH TEMPERED LITE	088000	MRF: OLDCASTLE; STYLE: SOLARBAN 60; COLOR: CLEAR + CLEAR; SPACER COLOR: BLACK; TEMPERED: YES, BOTH LITES
GL-3	1" INSULATED GLASS UNIT LAMINATED AND TEMPERED	088000	MRF: OLDCASTLE; STYLE: SOLARBAN 60 STARPHIRE; COLOR: CLEAR + CLEAR; SPACER COLOR: BLACK; TEMPERED: BOTH LITES
GL-4	1/4" CLEAR FULLY TEMPERED GLASS	088000	MONOLITHIC GLASS IN THICKNESSES AS REQ'D FOR CONFIGURATIONS SHOWN IN DRAWINGS. REFER TO SPECIFICATIONS
GUARD-1	WALL MOUNTED STAINLESS STEEL CRASH RAIL	102600	MRF: WALLGAURD.COM; STYLE: PROTECTOR SERIES 2182; COLOR: STAINLESS STEEL; SIZE: 1 1/2" X 5 1/2"; NOTES: PROVIDE MANUFACTURERES STANDARD WALL BRACKETS AND FINISH CAPS
GUARD-2	FLOOR MOUNTED STAINLESS STEEL CRASH RAIL	102600	MRF: ALVARADO MFG; STYLE: CB BUMPER SYSTEM; COLOR: STAINLESS STEEL;
GUARD-3	CORNER GUARD	102600	MRF:Koffler Sales Company; STYLE: Stainless Steel Corner Guard, A674; COLOR: Stainless Steel;
GUARD-4	CORNER GUARD	102600	MRF:Alpar; STYLE: Flush Mount Biobased Polymer End Wall MODEL: CG-888B; COLOR: 301 Linen White;
GWB-1	GYPSUM WALL BOARD - 5/8" TYP.	092900	GYPSUM WALL BOARD, 5/8" UNLESS NOTED OTHERWISE
GWB-2	GYPSUM WALL BOARD - TYPE 'X' - 5/8"	092900	GYPSUM WALL BOARD, 5/8" UNLESS NOTED OTHERWISE
GWB-3	1/2" CEMENT BOARD	092900	1/2" CEMENT BOARD
HATCH-1	ROOFTOP HATCH	077200	MFR: BABCOCK DAVIS; STYLE: PERSONEL II ROOF HATCH; MODEL: BA3054;
HINGE-1	CONTINUOUS STEEL HINGE	050500	MFR: MONROE PMP; PRODUCT: HEAVY DUTY CONTINUOUS HINGE, NO HOLES; MATERIAL: STEEL; LENGTH: 84";
INSUL-1	FIBERGLASS BATT INSULATION	072100	MANUF: OWENS CORNING; PRODUCT: ECOTOUCH UNFACED FIBERGLASS BATT INSULATION;
INSUL-2	EXTRUDED POLYSTYRENE BOARD INSULATION	072100	MFR: DOW CHEMICAL THICNKESS: AS DESCRIBED IN DRAWINGS TYPE: TYPE IV, 25 PSI FOR EXTERIOR WALL CAVITY
INSUL-3A	POLYISOCYANCURATE FINISHED BOARD INSULATION	072100	MFR: DOW CHEMICAL; PRODUCT: THERMAX HEAVY DUTY PLUS THICKNESS: 2" FACING: 16.5 MIL EMBOSED ALUMINUM / 1 MIL EMBOSED ALUMINUM INSTALLTION: INSTALL WITH 16.5 MIL SIDE AS FINISH FACE COLOR: WHITE TRIM: MANUF'S STANDARD J TRIM AT MATERIAL TERMINATION, MANUF'S STANDARD INTERLOCKING SYSTEM AT PANEL JOINTS.
INSUL-3B	PLYWOOD FACED INSULATED PANEL	072100	BASIS OF DESIGN; MFR: HUNTER PANELSL; PRODUCT: Xci PLY; THICKNESS: 2.7"; R-VALUE: 13.1; INSTALLATION: OVER CMU SUBSTRATE - PROVIDE OWNER'S STANDARD FASTENERS AND FASTEN PER STANDARD INSTALLATION INSTRUCTIONS FOR CMU SUBSTRATE
INSUL-4	POLISOCYANURATE BOARD INSULATION	075323	MFR: FIRESTONE; MODEL: ISO 95+ GL; COMPRESSIVE STRENGTH: 20 PSI MINIMUM; REINFORCING: BLACK GLASS REINFORCED MAT LAMINATED; R-VALUE: R-30 MINIMUM
INSUL-5	BELOW GRADE EXTRUDED POLYSTYRENE BOARD INSULATION	072100	MFR: DOW CHEMICAL; THICNKESS: AS DESCRIBED IN DRAWINGS; TYPE: TYPE VII, 60 PSI MIN.; FOR USE BELOW GRADE
INSUL-6	STONE WOOL FIRESTOPPING	072100	
INSUL-7	INSULATING FOAM SEALANT	072100	
INSUL-8	SEMI-RIGID STONE WOOL INSULATION	072100	R-VALUE: 4.3/INCH; THICKNESS: AS REQ'D PER DRAWINGS; FIRE PERFORMANCE: ASTM E 136; MOISTURE RESISTANCE: ASTM C 1104, .05%; WATER VAPOR PERM: ASTM E96; COMPRESSIVE RESISTANCE: ASTM C 165;
JOINT-1	MILLWORK TRIM ANGLE	092900	MFR: FRY REGLEY OR APPROVED EQUAL ALTERNATE; STYLE: MWRL100; COLOR: BLACK;
JOINT-2	DRYWALL SLIP JOINT	092900	MFR: CLARK DIETRICH OR APPROVED EQUAL ALTERNATE; STYLE: 1/2" REVEAL DRYWALL SLIP JOINT; PRODUCT: 4058-50; COLOR: PAINT TO MATCH WALL FINISH;
JOINT-3	DRYWALL CHANNEL REVEAL BEAD	092900	MFR: FRY REGLEY OR APPROVED EQUAL ALTERNATE; STYLE: MWRL100; COLOR: BLACK;
JOINT-4	DRYWAL Z REVEAL BEAD	092900	MFR: FRY REGLEY OR APPROVED EQUAL ALTERNATE; STYLE: MWRL100; COLOR: BLACK;
LIFT-1	PIT RECESSED SCISSOR LIFT	111319	MFR: KELLEY; PRODUCT: HULK SERIES KDL DOCK LIFT; MODEL: KDL68-6 CAPACITY: 6,000 LB COLOR: BLACK
LINO-1	LINOLEUM - MILLWORK	064120	MFR: Forbo; STYLE: Furniture Linoleum; COLOR: 4184 Olive;
LOCK-1A	OWNER PROVIDED VENDOR PERSONAL ITEMS LOCKER	EQUIPMENT	MFR: Foreman; STYLE: PHENOLIC Z-TIER US-STYLE LOCKER WITH BENCH; COLOR: Black; LOCK: Foreman Hasp; SIZE: 12"x12"x60"; NOTE: With coordinating sloped top attachment, typ;
LOCK-1B	VENDOR PERSONAL ITEMS LOCKER	EQUIPMENT	MFR: Foreman; STYLE: PHENOLIC Z-TIER US-STYLE LOCKER; COLOR: Black; LOCK: Foreman Hasp; SIZE: 12"x12"x60"; NOTE: With coordinating sloped top attachment, typ;
LOUV-1	ARCHITECTURAL EXTERIOR LOUVER	089100	MFR: RUSKIN; TYPE: DRAINABLE BLADES WITH HEAVY CHANNEL FRAME AND BIRD SCREEN; FINISH: 2 COAT 70% PDVF OR EQUAL; MOUNTING: FURNISH WITH EXTERIOR FLAT FLANGE FOR INSTALLATION. FREE AREA: PER MECHANICAL ENGINEER'S REQMTS; SIZE: REFER TO DRAWINGS; COLOR: TBD BY ARCHITECT TO MATCH ADJACENT EXTERIOR FINISH;
MA-1A	WASTE BASKET WITH DOLLY	064100	MFR: Rubbermaid; STYLE:VENTED SLIM JIM® 23 GA, SKU: FG354060BLA; DOLLY: SLIM JIM® RESIN TRAINABLE DOLLY,SKU: 1980602; COLOR: Black;
MA-1B	WASTE BASKET W/O DOLLY	064100	MFR: Rubbermaid; STYLE:VENTED SLIM JIM® 23 GA, SKU: FG354060BLA; COLOR: Black;
MA-2	PULL HANDLE	064100	MFR: Richelieu; STYLE:Contemporary Metal Pull 2288; PRODUCT: BP228804900; COLOR: Matte Black;
MA-3	SHELF STANDARD	064100	MANUF: Knape and Vogt; PRODUCT:82/182 Series, Slotted Shelving Standard, Wall Mounted, 82BP BLK 63; COLOR: Black;
MA-4	SHELF STANDARD BRACKET	064100	MANUF: Knape & Vogt; PRODUCT: 82/182 Series, Bracket,182BP BLK 12.5; COLOR: Black; NOTE: Holds 450 lbs with anti-dislodge safety features.
MA-6	HEAVY DUTY LOCKING CASTER	064100	MANF: McMaster-Carr; PRODUCT: Leveling Caster with Nonmarking Black Nylon Wheel; DESCRIPTION: 2-1/2" Diameter, Thumbweel Adjustment, Black Aluminum Frame;
MA-7	RESETTABLE COMBINATION CAM LOCK	064100	MANF: McMaster-Carr; PRODUCT: Resettable Combination Cam Lock; DESCRIPTION:Black Painted Zinc, for 3/8" Maximum Thicknessl;

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	SPEC SECTION	Spec Data
MA-8	PULL HANDLE	064100	MANF: Richelieu; PRODUCT: DP46LBL; DESCRIPTION: Black; NOTE: Can be cut to required length and must be installed using wood screws (not included). No grooves needed;
MA-9	FLATWARE CYLINDER	064100	MANF: Browne; PRODUCT: Stainless Steel Flateware Cylinder DESCRIPTION: 80113, Plain; SIZE: 3.8" dia x 5.5"H
MA-10	FALSE TOE BASE	064100	MANF: Richelieu; PRODUCT: Quick Toe; DESCRIPTION: 363030; FINISH: White, finish over with RB-1;
MA-11	WASTE BASKET SMALL	064100	MANF: Rubbermaid PRODUCT: FGLH12; LIDNER: FGLH12 Square Rigid Plastic Liner;
MA-12	GLIDE HARDWARE WITH WASTE BINS	064100	MANF: Knape and Vogt; SERIES: PDMTM; PRODUCT: PDMTM15-2-35WH; ACCESSORY: Include (2) QT35PB-WH Waste Bins;
MA-13	ADA SHROUD	064100	MANUF: RAKKS; PRODUCT: CUSTOM, ADA COMPLIANT ALUMINUM VANITY BRACKET; SIZE: CUSTOM, SEE MILLWORK SECTION; FINISH: CUSTOM, SEE MILLWORK ELEVATIONS;
MAIL-1	CLUSTER MAILBOX	105500	MFR: Florence Mailboxes; STYLE: 4C compliant Cluster Mailbox; PRODUCT: 4C14D-16; COLOR: White; INSTALLATION: Recessed; DOORS: 16 Tenant, 2 Parcel Lockers
MAIL-2	CLUSTER PARCEL MAILBOX	105500	MFR: Florence Mailboxes; STYLE: 4C compliant Cluster Mailbox Parcel Box; PRODUCT:4C14S-2P; COLOR: White; INSTALLATION: Recessed; DOORS: 2 Parcel Lockers
MICRO-1	OWNER PROVIDED MICROWAVE	EQUIPMENT	MFR: GE; STYLE: COUNTER TOP MICROWAVE; SKU: JES1145SHSS; NOTE: STAINLESS STEEL;
MTLPNL-1	PERFORATED METAL PANEL	057500	MFR: McNICHOLS; MODEL: PERFORATED METAL SQUARE; PATTERN: 5/16" SQUARE ON 1/2" CENTER: 39% OPEN; MODEL No: 16961218; MATERIAL: CARBON STEEL; GAUGE: 18; FINSH: PT-7; PROVIDE MANUF'S STANDARD PANEL TRIM, FASTENERS AND ACCESSORIES AS PER DRAWINGS;
MTLPNL-2	WELDED WIRE MESH RAILING INFILL	057300	MFR: McNICHOLS AR APPROVED EQUAL ALTERNATE; PRODUCT: PREFABRICATE RAILING INFILL PANEL; MODEL: PROVIDE RAKE, TRANSITION, AND RECTANGULAR PANELS WITH INFILL PRECUT AND ASSEMBLED WITH FRAME AS PER DRAWINGS INFILL PATTERN: SQUARE 2" X 2" WELDED WIRE MESH; FRAME: SEE DRAWINGS; MODEL No: 36B2135048; MATERIAL: CARBON STEEL; GAGE: 10 GA WIRE (.135"); FINSH: PREFINISHED CUSTOM POWDERCOAT TO MATCH COLOR PT-B;
MTLPNL-3	CORRUGATED DECK ROOFING	74113.13	SIZING: STANDARD 1-1/2" DEPTH; SIDELAP: OVERLAPPING FOR DRAINAGE;
MTLPNL-4	FLAT LOCK PANEL SYSTEM	076419	MFR:AMERICLAD MODEL: AC-5000; SIZING: FINISH: BLACK ANODIZED, TO MATCH CURTAINWALL;
MTLPNL-5	PERFORATED METAL PANEL	057500	MFR: McNICHOLS; MODEL: LATTICE 1253; PATTERN: 1/2" SQUARE ON 11/16" CENTER: 53% OPEN; MODEL NO: 16870012M7; GAUGE: 12; FINISH: GALVANIZED AND SITE PAINTED;
OVHD-1	OVERHEAD DOOR	083613	MFR: RAYNOR; STYLE: ALUMAVIEW AV200; COLOR: BLACK ANODIZED FINISH;
OVHD-2	OVERHEAD DOOR	083613	MFR: RAYNOR; STYLE: THERMASEAL TM220; COLOR: BLACK TO MATCH BLACK ANODIZED CW FRAME; TRACK: LOW HEAD ROOM;
PEG-1	METAL PEG BOARD	093013	MFR: Diamond Life; STYLE:Pegboard MX, Metal, Cusotm Size; SIZE: Custom size, see elevation; EDGE: Finished flange by manufacturer; COLOR: Black; MOUNT: With Backing Board; ACCESSORIES: ;
PEG-2	METAL PEG BOARD	093013	MFR: Diamond Life; STYLE:Pegboard MX, Metal; SIZE: 48"x70"; EDGE: Finished flange by manufacturer; COLOR: Black; MOUNT: With Backing Board; ACCESSORIES: ;
PNL-1A	WALL PROTECTION PANEL	099123	MFR: Alpar; STYLE: Sheet Wall Protection, Models WB-40; CONTENT: Biobased, PVC-free Polymer sheet; COLOR: 301 Linen White;
PNL-1B	WALL PROTECTION PANEL	099123	MFR: Alpar; STYLE: Sheet Wall Protection, Models WB-40; CONTENT: Biobased, PVC-free Polymer sheet; COLOR: 210 SILVER GRAY;
PT-1_	ACRYLIC LATEX PAINT, FLAT	099123	MFR: Benjamin Moore; STYLE: ULTRA SPEC® 500 INTERIOR EGGSHELL FINISH N538 ;
PT-2_	ACRYLIC LATEX PAINT, EGGSHELL	099123	MFR: Benjamin Moore; STYLE: Type info here and keep semicolon at end; COLOR: Type info here and keep semicolon at end;
PT-3_	INT SCRUBBABLE PAINT	099113	MFR: Scuffmaster; PRODUCT: ScrubTough Max;
PT-4_	TRAFFIC STRIPING FLOOR PAINT	099123	MFR: RUST-OLEUM; STYLE:2300 System Traffic Zone Striping Paint;
PT-5_	INTERIOR METAL PAINT	099123	MFR:Benjamin Moore; STYLE: Superspec HP DTM Acrylic Semi-Gloss P29;
PT-6_	EXTERIOR PAINT - STEEL	099113	MFR: SHERWIN WILLIAMS; PRODUCT: MACROPOXY 646 MIDCOAT AND PIGMENTED ACROLON 100 TOPCOAT;
PT-7	BLACKENING FINISH FOR MILD STEEL	099123	MFR: PEACOCK LABORATORIES; PRODUCT: PERMALAC NT; STYLE: TRANSPARENT BLACKENING LAQUER FOR MILD STEEL; COLOR: TRANSPARENT BLACK; APPLICATION: SPRAYED; CONCENTRATION: DILUTE PER MANUFACTURERS APPLICATOIN INSTRUCTIONS. NOTES: SEE MOCKUP SCHEDULE FOR REQUIRED APPLICATION MOCKUPS
PT-_A	PAINT COLOR - EXISTING WHITE	099123	MFR: Benjamin Moore; STYLE: 2121-70; COLOR: Chantilly Lace;
PT-_B	PAINT COLOR - GREY	099123	MFR: Benjamin Moore; STYLE:1617; COLOR: Cheating Heart;
PT-_C	PAINT COLOR - MATCH COAT-1A	099113	COLOR: MATCH COAT-1A;
PT-_D	PAINT COLOR - MATCH COAT-1B	099113	COLOR: RAL 7043;
RAIL-1	CANE RAIL	057300	CANE DETECTION RAIL FABRICATED FROM STANARD STEEL SHAPES MATERIAL: CARBON STEEL; RAIL: 3/4" X 3" BAR. ALL JOINTS FULLY WELDED AND GROUND SMOOTH; POSTS AND BASES: 3/4" X 1 1/2" BAR; FINISH: PT-7
RAIL-2	STEEL GUARDRAIL w MTPNL-2 INFILL	057300	FABRICATED STEEL HANDRAIL w/ INFILL PANEL CONFIGURED AS PER DRAWINGS; MATERIAL: CARBON STEEL; PICKET: CARBON STEEL BAR STOCK 3/4" X 2 1/2" TOP AND BASE FULLY WELDED AND GROUND SMOOTH - PROVIDE FASTENING TABS FOR INFILL PANEL; TOP RAIL: CARBON STEEL BAR STOCK 3/4" X 3" - ALL JOINST FULLY WELDED AND GROUND SMOOTH; PICKET SPACING: 4' O.C. OR AS NOTED ON DRAWINGS; INFILL PANEL: MTLPNL-2; FINISH: PT-5B;
RAIL-3	TUBE HANDRAIL	055213	PRODUCT: 1 1/2" DIA SCHED 80 STEEL HANDRAIL; CONFIGURATION: AS INDICATED ON DRAWINGS, PROVIDE IN CONFIGURED AND WITH BRACKETS AS REQ'D; CONSTRUCTION: RETURN ENDS TO GUARDRAILS AS INDICATED ON DRAWINGS. ALL JOINTS AND CONNECTIONS TO BE FULLY WELDED - GRIND WELDS SMOOTH; COLOR: PT-7;
RAIL-4	PAINTED STEEL SAFETY RAIL	055213	MANUF: WIRE CRAFTERS; PRODUCT: INDUSTRIAL SAFETY HANDRAIL; CONFIGURATION: 42" HIGH WITH 2 INTERMEDIATE HORIZONTAL RAILS; PROFILE: SQUARE TUBE; COLOR: BLACK; KICKPLATE: 4" HIGH;
RB-1	RUBBER WALL BASE	096513	MFR: Johnsoninte; STYLE: Rubber Wall Base 4"; COLOR: Burnt Umber;
REF-1	OWNER PROVIDED UNDER COUNTER FRIDGE	EQUIPMENT	MFR: Summit Appliances; STYLE:24" Wide Built-In All-Refrigerator, ADA Compliant; SKU: FF7LBLBISSTBADA; NOTE: Locking Door;
REF-2	OWNER PROVIDED REFRIGERATOR	EQUIPMENT	MFR: GE; STYLE:SIDE BY SIDE REFRIGERATOR; SKU: GSS25GSHSS; NOTE: STAINLESS STEEL;
ROOF-1	EPDM ROOF	075323	SEE G002 TYPES AND SYSTEMS
SCRN-1	ROOFTOP EQUIPMENT SCREEN	108200	MFR: INDUSTRIAL LOUVERS INC ; PRODUCT: 1625XPI SYSTEM; SIZE: 1-5/8 IN; FINISH: FLUROPON PURE 2-COAT; COLOR: TBD;
SHELF-1	OWNER PROVIDED VENDOR STORAGE	EQUIPMENT	MFR: ULINE; STYLE: Stainless Steel Wire Shelving Unit - 60 x 24 x 86"; MODEL: H-6154;
SHELF-2	OWNER PROVIDED VENDOR STORAGE	EQUIPMENT	MFR: ULINE; STYLE: Stainless Steel Wire Shelving Unit - 48 x 24 x 86"; MODEL: H-6153;
SHELF-3	OWNER PROVIDED VENDOR STORAGE	EQUIPMENT	MFR: ULINE; STYLE: Stainless Steel Wire Shelving Unit - 36 x 18 x 86"; MODEL: H-6148;
SHELF-4	OWNER PROVIDED VENDOR STORAGE	EQUIPMENT	MFR: ULINE; STYLE: Stainless Steel Wire Shelving Unit - 60 x 24 x 72"; MODEL: H-4298;
SHELF-5	OWNER PROVIDED VENDOR STORAGE	EQUIPMENT	MFR: ULINE; STYLE: Stainless Steel Wire Shelving Unit - 36 x 18 x 72"; MODEL: H-5479 ;
SHTG-1	EXTERIOR GYPSUM SHEATHING	061643/075323	GLASS MAT GYPSUM SHEATHING; MANUF: GEORGIA-PACIFIC;
SHTG-2	EXTERIOR GRADE PRESSURE TREATED PLYWOOD	061600	EXTERIOR STRUCTURAL PLYWOOD SHEATHING

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	SPEC SECTION	Spec Data
SKY-1	SKYLIGHT	086100	MFR: VELLUX; MODEL: RIDGELIGHT 20-40; SIZE GRID: 1000 X 2200, FIXED; GLAZING: LOW E DOUBLE GLAZE;
SL-1	CONCRETE FLOOR PATCH/SEALER	096723	MFR: TENNANT; MODEL: ECO-HF 250 ECO-FPE;
SLNT-1	ACOUSTICAL JOINT SEALANT	079219	QUALITIES: NON-SAG, GUN GRADE, NON-FLAMMABLE, LATEX-BASED, REMAINS FLEXIBLE;
SLNT-2	INTERIOR JOINT SEALANT	079200	QUALITIES: ONE-PAR, MILDEW-RESISTANT SILICONE SEALANT; COLOR: CLEAR;
SLNT-3	EXTERIOR JOINT SEALANT	079200	QUALITIES: ONE-PART, LOW MODULUS SILICONE SEALANT; COLOR: TBD BY ARCHITECT TO MATCH ADJACENT SURFACES;
SPAC-1	SPRAY APPLIED ACOUSTIC CEILING FINISH	072129	MANUF: INTERNATIONAL CELLULOSE CORPORATION; PRODUCT: K-13; COLOR: MATCH EXISTING CEILING;
SSF-1	QUARTZ SOLID SURFACE	123661	MFR: Silestone by Cosentino; COLOR: N-Boost Marengo; FINISH: Polished;
SSTL-1	STAINLESS STEEL COUNTERTOP	123616	DEPTH: 3/4" DIMENSIONS: PER DRAWINGS; EDGE: EASED;
STAIR-1	FABRICATED STEEL STAIR ASSEMBLY	055113	ASSEMBLED STEEL STAIR AS SHOWN IN DRAWINGS
STAIR-2	SHIP LADDER	055000	STEEL SHIPS LADDER AS SHOWN IN DRAWINGS
STFT-1	INTERIOR ALUMINUM STOREFRONT - CENTER GLAZED	084113	MFR: Kawneer (Basis of Design); SYSTEM: TRIFAB 451; SIGHTLINE: 2 3/4" WIDTH, 4 1/2" DEPTH; GLAZING: INSIDE GLAZED; GLAZING LOCATION: CENTER; INFILL: 1/4" GL-4, OR 1" IGU (GL-1) BY LOCATION; FINISH: BLACK ANNODIZED;
STFT-2	EXTERIOR ALUMINUM STOREFRONT	084113	MFR: KAWNEER; SYSTEM: TRIFAB VERSAGLAZE 451T; SIGHTLINE: 2 IN WIDTH, 4.5" DEPTH; FINISH: BLACK ANNODIZED;
STFT-3	INTERIOR ALUMINUM STOREFRONT - CENTER GLAZED	084113	MFR: Kawneer (Basis of Design); SYSTEM: TRIFAB 601; SIGHTLINE: 2 3/4" WIDTH, 6" DEPTH; GLAZING: INSIDE GLAZED; GLAZING LOCATION: CENTER; INFILL: 1/4" GL-4, OR 1" IGU (GL-1) BY LOCATION; FINISH: BLACK ANNODIZED;
STRUT-1A	UNISTRUT CHANNEL	054500	MFR: UNISTRUT; MODEL: SOLID CHANNEL; MATERIAL: PLAIN CARBON STEEL STYLE: P5500 1 5/8" X 2 7/16"; FINISH: PAINTED PT-5B
STRUT-1B	UNISTRUT CHANNEL	054500	MFR: UNISTRUT; MODEL: BACK-TO-BACK SOLID CHANNEL; MATERIAL: PLAIN CARBON STEEL STYLE: P1001 1 5/8" X 3 1/4"; FINISH: PAINTED PT-5B
STRUT-1C	UNISTRUT CHANNEL	054500	MFR: UNISTRUT; MODEL: DOUBLE COMBINATION CHANNEL; MATERIAL: PLAIN CARBON STEEL STYLE: P1001C 1 5/8" X 3 1/4"; FINISH: PAINTED PT-5B
STRUT-2A	STUT-1 MANUF'S FLAT PLATE FITTING	054500	MFR: UNISTRUT; MODEL: 3- HOLF FLAT PLATE w/ CHANNEL NUTS AS REQ'D; MATERIAL: PLAIN CARBON STEEL; STYLE: P1925 (PLATE) w/ MANUFS' RECOMENDED CHANNEL NUT; FINISH: PAINTED PT-5B
STRUT-2B	STRUT-1 MANUF'S BEAM CLAMP	054500	MFR: UNISTRUT; MODEL: BEAM CLAMP w/ CHANNEL NUT; MATERIAL: PLAIN CARBON STEEL; STYLE: P1379S (BEAM CLAMP) w/ MANUF'S RECOMENDED CHANNEL NUT; FINISH: PAINTED PT-5B
STRUT-2C	STUT-1 MANUF'S 90 DEGREE FITTING	054500	MFR: UNISTRUT; MODEL: 2- HOLE 90 DEGREE FITTING WITH CHANNEL NUTS; MATERIAL: PLAIN CARBON STEEL; STYLE: P1026 w/ MANUFS' RECOMENDED CHANNEL NUT; FINISH: PAINTED PT-5B
STRUT-2D	STUT-1 TOP BEAM CLAMP	054500	MFR: UNISTRUT; MODEL: BEAM CLAMP MATERIAL: PLAIN CARBON STEEL; STYLE: P2786, SIZED PER CONNECTED CHANNEL; FINISH: PAINTED PT-5B
TA-2	COMBO TOILET TISSUE DISPENSER & SANITARY NAPKIN DISPLOSAL	102800	MFR: Bobrick; STYLE: B-3094; COLOR: Stainless Steel with Satin Finish; NOTE: Locking displosal unit;
TA-4	TOILET TISSUE DISPENSER JUMBO-ROLL	102800	MFR: Bobrick; STYLE: Single Jumbo-Roll Surface Mounted Toilet Tissue Dispenser, B-2890; COLOR: Satin-finish stainless steel;
TA-5	PAPER TOWEL (FOLDED) DISPENSER	102800	MFR: Bobrick; STYLE:B-35903 TrimLineSeries™ Recessed Paper Towel Dispenser; COLOR: Stainless Steel, Satin Finish;
TA-7	WASTE RECEPTACLE	102800	MFR:Simplehuman; STYLE:Profile Step Can, 10L; COLOR: Brushed Stainless Steel;
TA-11	LIQUID-SOAP DISPENSER	102800	MFR: DELTA; STYLE: Counter Mounted; COLOR: Black;
TA-12	GRAB BAR	102800	MFR: Bobrick; STYLE: (4) 819441.UK 600 mm Straight Grab Bar; (1) 819440.UK 450 mm Straight Grab Bar; COLOR: Stainless Steel;
TA-14	SANITARY-NAPKIN DISPOSAL UNIT	102800	MFR: Bobrick; STYLE: Surface Mounted Sanitary Napkin Disp, B-254; COLOR: Heavy Gauge stainless steel, satin finish;
TA-17A	MIRROR UNIT (FRAMED)	102800	MANUF: CB2; PRODUCT: INFINITY BLACK RECTANGLE MIRROR; SIZE: 24"x36";
TA-17B	MIRROR UNIT (FRAMED)	102800	CUSTOM: MIRROR BACKED GLASS, CUT TO DIMENSIONS LISTEDN ON ELEVATION;
TA-19	HOOK	102800	MFR: Bobrick; STYLE: Clothes Hook, B-233; COLOR: Stainless Steel, Satin Finish;
TA-24	DIAPER-CHANGING STATION	102800	MFR: Koala Kare; STYLE: KB110-SSRE HORIZONTAL RECESSED MOUNTED; COLOR: Stainless Steel;
TA-25	LAV SHROUD	102800	MFR: LACAVA; STYLE: TRAP COVER, ITEM #RA098; COLOR: Polished Stainless Steel;
THRESH-1	ADA PLATE THRESHOLD	087200	MFR: PEMKO; STYLE: ADA COMPLIANT ALUMINUM PLATE THRESHOLD; PRODUCT: 18/1 10" LENGTH PER DRAWINGS; COLOR: MILL ALUMINUM;
TRANS-1	TRANSITION STRIP	093013	MFR: Schluter; STYLE: DILEX-AHKA; COLOR: Annodized Aluminum;
TRANS-2A	TRANSITION STRIP	093013	MFR: Schluter; STYLE: JOLLY; COLOR: Annodized Aluminum;
TRANS-2B	TRANSITION STRIP	093013	MFR: Schluter; STYLE: JOLLY; COLOR: MGS, Matte black textured color-coated aluminum;
TRANS-3	CARPET TRANSITION STRIP	096813	MFR: Futura; STYLE: Pinless Clampdown; COLOR: Etched Black;
TRANS-4	TRANSITION STRIP	101100	MFR: Fry Reglet; STYLE: DRMB-625-400; COLOR: BLACK;
TRIM-1	DRYWALL END CAP TRIM		MFR: FRY REGLEY OR APPROVED EQUAL ALTERNATE; STYLE: DMEC-7250; COLOR: PAINTED TO MATCH WALL;
TRIM-2	DRYWALL Z-TRIM REVEAL		MFR: TRIM-TEX OR APPROVED EQUAL ALTERNATE; STYLE: MUD-IN REVEAL, Z PROFILE; PRODUCT: 5810T; DIMENSIONS: 5/8" DRYWALL, 1/2" REVEAL; COLOR: PAINTED TO MATCH WALL;
TV-1	OWNER PROVIDED MONITOR (TELEVISION)	EQUIPMENT	
TV-2	OWNER PROVIDED MONITOR (TELEVISION)	EQUIPMENT	
VB-1	SHEET VAPOR BARRIER	061600	
WAVB-1	SELF-ADHERING SHEET AIR BARRIERS	072715	MFR: 3M; PRODUCT:AIR AND VAPOR BARRIER 3015 ;
WD-1A	COLOR THRU FIBERBOARD	064120	MFR:INTERLAM; PRODUCT: FORESCOLOR; COLOR: BLACK; THICKNESS: 18 MM; FINISH: BIOSHEILD 48 Aqua Resin Floor Finish, 00 TRANSPARENT; TOE KICK / WALL BASE: " 4" H X 18MM THICK, FINISH TO MATCH; NOTE: THIS MATERIAL SERVES AS STRUCTURE OF MILLWORK AS WELL AS FINISH - NO PLASTIC LAMINATE OR MELAMINES TO BE USED*
WD-2	PLYWOOD	064023	PRODUCT: WI Sourced Hapton Maple Veneer over Europly THICKNESS: 18 MM; FINISH: BIOSHEILD 48 Aqua Resin Floor Finish, 00 TRANSPARENT; COLOR: Natural; NOTE: FSC Certified;
WHEEL-1	HEAVY-DUTY, RIGID CASTER WHEEL	050520	MFR: FAIRBANKS; MODEL: 152232817; SIZE: 8"; CAPACITY: 1,200 LB MIN;
WIRE-1	WELDED WIRE MESH PARTITION	102213	MFR: WIRECRAFTERS; PRODUCT: SECURE STORAGE CAGE SYSTEM STYLE 840; PANEL TYPE: 2" SQUARE WELDED WIRE WITH ADJUSTABLE SOLID PANEL FILL AS REQ'D FOR NON STANDARD WIDTH SECTIONS; HEIGHT: 8'; DOORS: SINGLE HINGE. 3'-0" STANDARD WIDTH OR AS NOTED ON DRAWINGS; HARDWARE: ADA COMPLIANT HANDLE AT BOTH SIDES OF DOOR. KEYED CYLINDER STOREROOM FUNCTION LOCK;
WNDW-1	OUTSWING CASEMENT WINDOW	084413	MFR: KAWNEER, BY CWALL-1 MFR; MODEL: GLASSVENT UT WINDOWS; COLOR: MATCH CURTAINWALL; INFILL: 1"; SYSTEM DEPTH: 4-3/8" (DEEP); OPTIONS: INSECT SCREENS;
WP-1	COLD FLUID APPLIED WATERPROOFING	071416	MFR: W.R. Grace Co. - Procor; APPLICATION: PREDOMINANTLY BELOW-GRADE;
WP-2	COLD FLUID APPLIED WATERPROOFING	071416	APPLICATION: BELOW GRADE, UNDER ELEVATOR PIT;
WRB-1	WEATHER RESISTANT BARRIER	072500	PRODUCT: SINGLE LAYER #15 ASPHALT FELT; APPLICATION: VERTICAL; TYPE: ASTM D226, TYPE 1; SLIP SHEET: ROSIN PAPER; LOCATIONS: ON PLYWOOD AS INDICATED IN DRAWINGS;

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Fire Protection Engineering, Technology and AV

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Lighting Design

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Commercial Kitchen Design

Boelter Premier

7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 License No 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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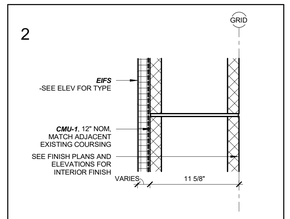
EXTERIOR WALL TYPES

WALL TYPE 1 - NOT USED

2

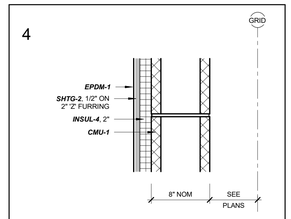


NOTE: WALLS AT EXISTING OPENING INFILL, TOOTH-IN NEW INFILL TO EXISTING CONSTRUCTION

U VALUE: 0.10

WALL TYPE 3 - NOT USED

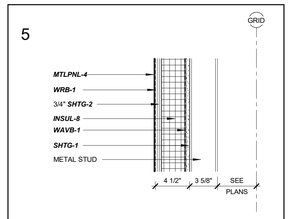
4



NOTE:

U VALUE: 0.16

5

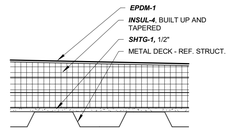


NOTE:

U VALUE: 0.07

ROOF TYPES

ROOF-1

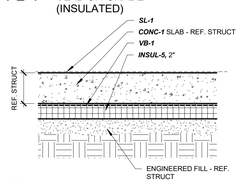


NOTE:
1. SLOPE **INSUL-4** 1/4" TO DRAINS OR SCUPPER - SEE ROOF PLANS
2. PROVIDE **R-30**

U VALUE: 0.03

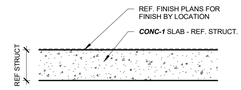
FLOOR TYPES

FL-1 SLAB ON GRADE (INSULATED)



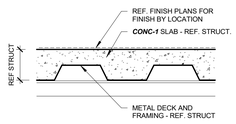
NOTE:

FL-2 SLAB ON GRADE



NOTE: REF STRUCTURAL FOR DOWELING/ANCHORING BACK TO EXISTING SLABS

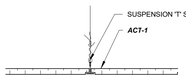
FL-3 SLAB ON DECK



NOTE:

CEILING TYPES

CEILING-1A

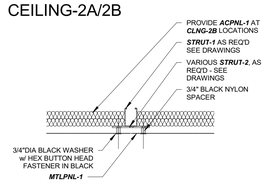


NOTE:

CEILNG-1B

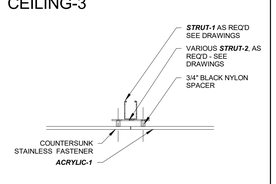
NOTE:

CEILING-2A/2B



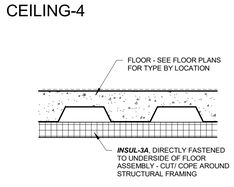
NOTE:
1. STRUT-1 FRAMING SUGGESTED IN DRAWINGS REPRESENTS A COORDINATED BASIS OF DESIGN - GC SHALL BE RESPONSIBLE FOR CONFIRMING AND SELECTING FINAL SYSTEM COMPONENTS TO SATISFY DESIGN INTENT AND REQUIREMENTS

CEILING-3



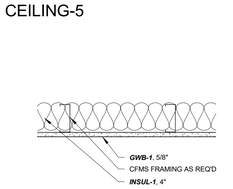
NOTE:
1. STRUT-1 FRAMING SUGGESTED IN DRAWINGS REPRESENTS A COORDINATED BASIS OF DESIGN - GC SHALL BE RESPONSIBLE FOR CONFIRMING AND SELECTING FINAL SYSTEM COMPONENTS TO SATISFY DESIGN INTENT AND REQUIREMENTS

CEILING-4



NOTE:
1. PROVIDE MANUF'S STANDARD J CLOSURE AT LOCATIONS WHERE PANELS TERMINATE AT OTHER MATERIALS
2. PROVIDE MANUF'S STANDARD INTERLOCKING CLOSURE AT PANEL JOINTS

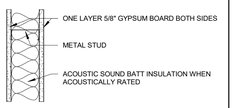
CEILING-5



NOTE:

INTERIOR PARTITION TYPES

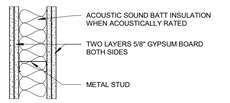
A SERIES



PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
A2	2 1/2"	3 3/4"	UL U419	1HR	47	1
A3	3 5/8"	4 3/4"	UL U419	1HR	48	1
A6	6"	7 1/4"	UL U419	1HR	48	1
A8	8"	9 1/4"	UL U419	1HR	48	1

NOTES
1. STC VARIES WITH INSULATION USED
2. SEE CODE PLANS FOR FIRE RATED PARTITION LOCATIONS

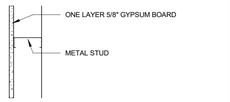
B SERIES



PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
B2	2 1/2"	5"	UL U419	2 HR	50	1
B3	3 5/8"	6"	UL U419	2 HR	50	1
B6	6"	8 1/2"	UL U419	2 HR	50	1

NOTES
1. STC VARIES WITH INSULATION USED
2. SEE CODE PLANS FOR FIRE RATED PARTITION LOCATIONS
3. ALL PENETRATIONS IN ACOUSTIC B3 WALLS SHALL BE FULLY SEALED

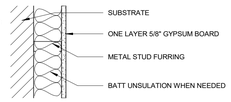
F SERIES



PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
F1	1 5/8"	2 1/4"				
F3	3 5/8"	4 1/4"				1,2
F6	6"	6 5/8"				

NOTES
1. TYPE F3 PARTITIONS NOTED AS 'D' ON FLOOR PLANS SHALL RECEIEVE LEVEL 0 FINISH.
2. TYPE F3 PARTITIONS NOTED AS 'D' ON FLOOR PLANS SHALL BE CONSTRUCTED TO 8'-0" A.F.F.

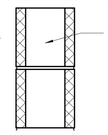
N SERIES



PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
N1	1 5/8"	2 1/4"	NA	NA	NA	
N2	2 1/2"	3 1/8"	NA	NA	NA	
N3	3 5/8"	4 1/4"	NA	NA	NA	

NOTES

R SERIES



PARTITION TYPE	BLOCK WIDTH ACTUAL	BLOCK WIDTH NOMINAL	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
R4	3 5/8"	4"	NA	NA	43 - 48	
R6	5 5/8"	6"	UL U906	2 HR	44 - 55	1,2
R7	7 5/8"	8"	UL U905	2 HR	46 - 62	1,2
R8	7 5/8"	8"	UL U904	3 HR	46 - 62	1,2,3
R9	7 5/8"	8"	UL U904	4 HR	46 - 62	1,2,3,4

NOTES
1. FILL CORES AT ACOUSTICALLY RATED PARTITIONS
2. CLASS D-2 BLOCK REQ'D FOR FIRE RATING
3. CLASS C-3 BLOCK REQ'D FOR FIRE RATING
4. CORES MUST BE FILLED TO ACHIEVE 4-HR FIRE RATING
5. AT SOME LOCATION R4 WALL IS **CMU-2**. SEE FINISH PLANS AND ELEVATIONS

W SERIES

PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
N1	1.2MM	1.2MM	NA	NA	NA	
N2	8MM	8MM	NA	NA	NA	

NOTES

GENERAL NOTES

SEE PLANS FOR SPECIFIC PARTITION TYPES USED.

1. INTERIOR PARTITIONS TYPES TO BE INDICATED BY THIS SYMBOL ON FLOOR PLANS.

2. GAUGE, SPACING, AND PERFORMANCE REQUIREMENTS OF METAL STUDS TO BE DETERMINED BY SPECIFICATIONS.
3. TYPE "X" GYPSUM BOARD REQUIRED AT RATED PARTITIONS ONLY.
4. FIRE RATED OR ACOUSTICALLY RATED PARTITIONS TO EXTEND TO ROOF OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE. PROVIDE REQUIRED CLOSURE TO MAINTAIN FIRE OR ACOUSTICAL RATING. PROVIDE APPROPRIATE DEFLECTION JOINT AT TOP OF PARTITION TO ELIMINATE CRUSHING OF PARTITION.
5. AT NON-RATED PARTITIONS IN ROOMS WITH FINISHED CEILING, GYPSUM BOARD TO GO 6" ABOVE CEILING UNLESS NOTED OTHERWISE. AT NON-RATED PARTITIONS IN ROOMS WITHOUT FINISH CEILINGS, GYPSUM BOARD TO GO TO DECK UNLESS NOTED OTHERWISE.
6. PENETRATIONS IN FIRE RATED OR ACOUSTICAL RATED PARTITIONS AND CONNECTIONS TO THESE PARTITIONS BY OTHER PARTITIONS SHALL BE PER PARTITION MANUFACTURER'S WRITTEN RECOMMENDATIONS OR U.L. REQUIREMENTS FOR FIRE TEST AND ACOUSTICAL TEST RATINGS.
7. REFER TO SPEC FOR BACKER AT PARTITIONS SCHEDULED TO RECEIVE CERAMIC TILE. PROVIDE TILE BACKER BOARD TO PARTITIONS IN SHOWERS, HIGH MOISTURE AREAS OR SIMILAR AREAS AND WHERE NOTED. INSTALLATION OF MOISTURE RESISTANT GYPSUM BOARD OR TILE BACKER BOARD SHALL NOT REDUCE FIRE OR ACOUSTICAL RATINGS FOR ANY PARTITION.
6. ACOUSTICALLY RATED PARTITIONS SHALL HAVE CONTINUOUS SOUND BATT INSULATION AND ACOUSTICAL CAULKING UNLESS OTHERWISE NOTED. STAGGER JUNCTION BOXES A MINIMUM OF 2'-0" BTWEEN PENETRATIONS AT ACOUSTICALLY RATED OR FIRE RATED PARTITIONS
7. THERMALLY SEPARATED PARTITIONS SHALL HAVE VAPOR BARRIER AND THERMAL INSULATION AS SPECIFIED UNLESS OTHERWISE NOTED.
8. VERIFY WITH STRUCTURAL ALL NON-BEARING MASONRY PARTITION THAT ARE NOT ADEQUATELY BRACED BY FIXED ELEMENTS PRIOR TO ERECTION.
9. PROVIDE A MINIMUM OF 1'-0" OF SOLID MASONRY BETWEEN PENETRATIONS IN MASONRY PARTITIONS UNLESS OTHERWISE NOTED.
10. REFER TO STRUCTURAL DRAWINGS FOR INTERIOR STRUCTURAL PARTITIONS.
11. PROVIDE BLOCKING AND BACKER SUPPORT FOR ALL EQUIPMENT ATTACHMENT AND MOUNTING. COORDINATE LOCATION OF BLOCKING AND BACKER MATERIAL WITH OWNER AND CONTRACTOR SUPPLIED EQUIPMENT PRIOR TO CONSTRUCTION OF PARTITION. SEE FURNITURE PLAN FOR FURNITURE LOCATIONS THAT REQUIRE BLOCKING.
12. STC RATINGS INDICATED MINIMUM WALL REQUIREMENTS WITH SOUND BATT INSULATION. REFER TO GYPSUM ASSOCIATION BULLETIN #500 AND THE UL MANUAL FOR DETAILED CONSTRUCTION TECHNIQUES TO ACHIEVE STC RATINGS.
13. WALLS WITH FINISH 'D' TAG ARE DEMISING WALLS. DEMISING WALLS SHALL HAVE LEVEL 0 GWB FINISH AT ALL SURFACE FACING VENDOR GROUPS OR TENANT SPACES. FINAL FINISH BY FUTURE CONTRACT

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

DAGMARA K. LARSEN 13278-5 MINNEAPOLIS MN ARCHITECT WISCONSIN

Signature _____

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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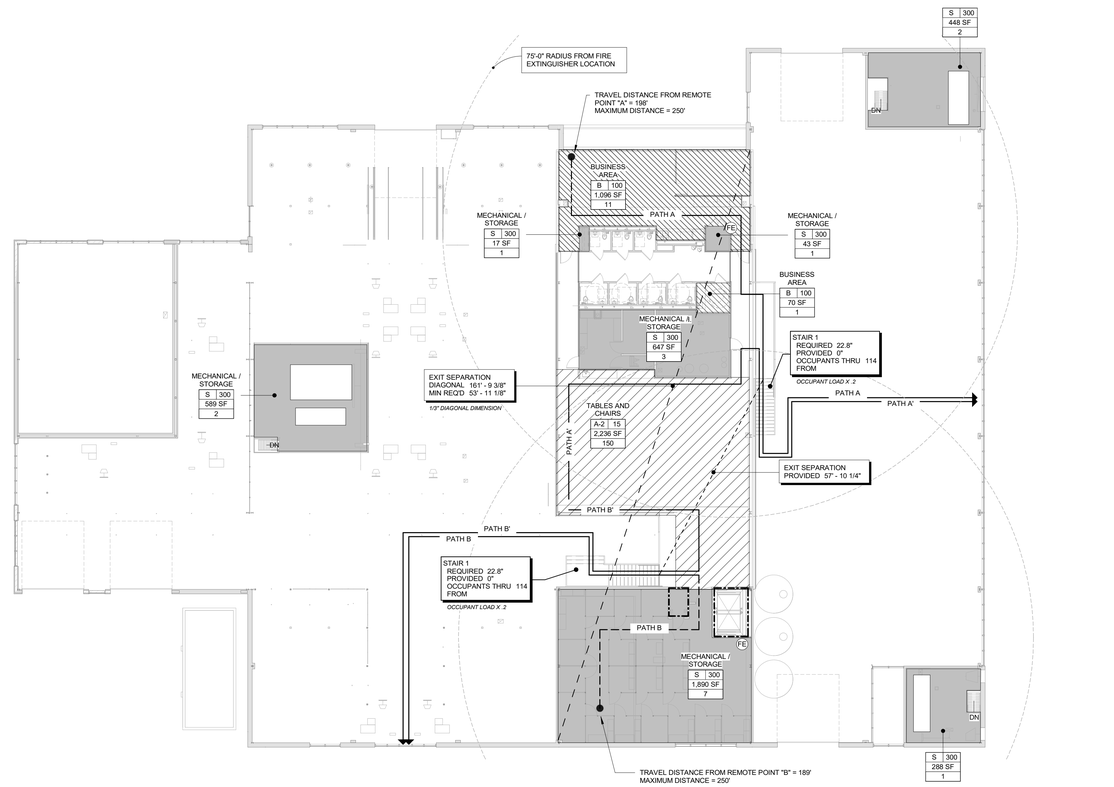
TYPES AND SYSTEMS

G003

Drawing 2019 Copyright Meyer, Scherer & Rockcastle, Ltd. BIM 360://2019006 Madison Public Market/Architecture.rvt 6/5/2023 10:00:27 AM

1 LEVEL 1 EGRESS PLAN

G005 1/16" = 1'-0"



2 MEZZANINE LEVEL EGRESS PLAN

G005 1/16" = 1'-0"

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Madison Public Market
202 N First St, Madison, WI 53704

1. Applicable References:

City of Madison Code of Ordinances Chapter 29
Wisconsin SPS 361-366
IEBC 2015
IBC 2015

2. Building Description

Existing 1 Story with Mezzanine
37,950 GSF First Floor with 7,690 GSF Mezz and 1,940 GSF Mech Mezz Fully Sprinklered
450 GSF Secondary Bldg Unsprinklered
Total: 48,030 GSF

3. Chapter 3 - Use and Occupancy Classification

309 M Mercantile Market
A-2 Assembly Event Hall
S-2 Storage Accessory Use Storage for Market
F-1 Commercial Kitchen to Support Market

4. Chapter 4 - Special Requirements & Occupancy

402.1 Exception 2 - Buildings need not comply with Covered Mall section where they totally comply with other applicable sections

5. Chapter 5 - General Building Heights and Area

504.2 In Mixed Occupancy building, no individual occupancy may exceed the height and story limits in Section 504.

504.3 Height ands Stories Set forth in Table 503 and 504

Table 504.3 and 504.4 Type II-B Construction Proposed; A-2, M, F-1

Maximum Stories: 3 Proposed: 1
Maximum Height: 75' Proposed: 22'
Max Area Per Floor: See 506

505.2.1 Mezzanine Area limitation
7,690 sf (Aggregate Mezzanine Area) / 37,950 sf = 20.3% < 33%
9,630 sf (Aggregate Mezzanine Area with Equipment Platforms) / 37,950 sf = 25.4% < 66%

505.2.3 Mezzanine Openness - Mezzanine has access to two exits

506.2.2 Mixed Occupancy One Story buildings
Aa = At + [NS x If]
Aa = 38,000 + [9,500 x 0.4959]
Modified Max Area Per Floor: 42,711 sf > Proposed: 37,950 sf OK

506.3 Frontage Increase
W = (L1 x w1 ...) /F
W = ((733 x 30) + (182 x 15)) /915 = 27.01
Frontage Increase
If = [F/P-0.25]W/30
If = [733 / 915' -0.25]27.01' / 30 = 0.4959

508.3 Nonseparated occupancies shall be classified as 302.1

508.3.1 Most restrictive portions of Chapter 9 shall apply to each portion of the building

508.3.2 Area and height limitations shall follow the most restrictive allowances

6. Chapter 6 - Types of Construction

602.2 Construction Classification - Type II-B

Table 601

Building Element:	Fire-resistance Rating Required (In Hours)
Primary Structural Frame	0
Bearing Walls (Exterior)	0 See Table 602 as well
Bearing Walls (Interior)	0
Exterior Nonbearing Walls	See Table 602
Interior Nonbearing Walls	0
Floor Construction (Incl Secondary)	0
Roof Construction (Incl Secondary)	0

Table 602

Distance (South Exterior Walls to Lotline = 15'-7")	
X < 5'	2 (M Occupancy)
5' < X < 10'	1
10' < X < 30'	0
X > 30'	0

7. Chapter 7 - Fire and Smoke Protection Features

705.3 Buildings on same lot shall have exterior separation of walls exceeding 705.8 distances or a fire rating as per 705.5 and Tables 601 and 602 (eg: 2 hours within 5').

Existing & new Infill 12" block wall equivalent thickness 4.91" to 5.10" - Exceeds 2 HR FR as per Table 722.3.2.

705.8 Distance (South Exterior Walls to Lotline = 15'-7")

Maximum Unprotected Openings, Sprinklered Building
15' < X < 20' 75% (Measured to Property Line)
X> 30' No limit

Existing South Wall Area: 4,004 SF Existing Openings: 1,830 SF
Existing Open Percentage: 47% < 75%

712.1.11 Vertical openings between Mezzanine and floor below shall be permitted

713.14 Elevator hoistway enclosures shall be constructed in accordance with 713 and Chapter 30

8. Chapter 8 - Interior Finishes

803.11 Interior Finishes as per Table 803.11

Table 803.9 A-2 Occupancy, Sprinklered

Interior Exit Enclosures, Ramps and Passageways	Class B
Corridors and enclosure for exit access stairs and ramps	Class B
Rooms and Enclosed Spaces	Class C

9. Chapter 9 - Fire Protection Systems

903.2.1 A-2 Occupancy- Building will be fully sprinklered throughout

903.3.1.1 Automatic Sprinkler shall be provided in accordance with NFPA 13

905.3 Standpipe not required

906.1 Portable Fire Extinguishers shall be installed throughout in accordance with Section 906 and NFPA 10

907.2.1 Manual Fire Alarm system shall be provided in A Occupancies (Occupant load due to Assembly is greater than 300). Manual fire alarm boxes are not required since building is equipped throughout with automatic sprinkler system and the occupant notification appliances will activate throughout the notification zones upon water flow.

907.2.1.1 Group A Occupancies with occupant load of 1,000 or more shall intiate a signal using an emergency voice/alarm comm system

907.2.9.2 Smoke alarms shall be installed in accordance with 9027.2.11

10. Chapter 10 - Means of Egress

1003.2 Ceiling height not less than 7'-6". Proposed Min Ceiling Ht: 8'-0"

1004.1.2 Occupancy

OCCUPANT LOAD

OCCUPANCY	AREA	LOAD FACTOR (GSF/NSF)	OCCUPANT LOAD
LEVEL 1			
A-2	9,086 SF	15 NET	606
F	1,197 SF	200 GROSS	6
M	21,268 SF	60 GROSS	360
S	3,312 SF	300 GROSS	14
	34,863 SF		986
MEZZANINE			
A-2	2,236 SF	15 NET	150
B	1,166 SF	100 GROSS	12
S	3,923 SF	300 GROSS	17
	7,324 SF		179
TOTAL	42,187 SF		1165

1005.1 Egress Width

1005.3.1 Stairways 0.3" per Occ x 174 53" Minimum 120" total provide over two exit access stairs: 60" & 60"
1005.3.2 Other 0.2" per Occ x 1,164 233" Minimum 700" Egress Width Doors Provided

1006.2.1 Min two exits provided from every space that exceeds 49 Occupants for A, B, F and M Groups, and 29 Occupants for S Groups

Table 1006.2.1 Maximum Common Path of Egress Travel with Sprinkler: 75' Proposed: 65'

1006.2.2.3 Refridgerated Rooms: Market Walk in Cooler = 449 sf < 1,000 sf

1006.3.1 Min Number of Exits: 1,164 Occupants = 4 exits required. Exits Provided = 14

1007.1.1 Separation distance of exit access stair shall be min 1/3 the distance of the diagonal of the area served
Minimum Required 53'-11 " < 57'-10" Proposed

1009.1 Two accessible means of egress required

1009.2 Accessible Means of Egress: Accessible routes compling with 1104 and Exit Access Stairways complying with 1009.3 and 1019.3 or 1019.4

1009.3 Exit Access Stairways providing means of egress from a Mezzanine are permitted as part of an accessible means of egress
Clear width of 48" not required with Automatic Sprinkler System.Clear width proposed: 51"
Areas of refuge not required with Automatic Sprinkler System

1010.1.1 Minimum Egress Door Width = 32" Clear (ie: 36" nominal door) At least 32" min proposed throughout

1010.1.2 Door Swing: Egress doors shall be pivot or side-hinged swinging type for Occ loads >10 and swing in direction of travel for Occ loads >50

1010.1.3 Opening force for interior non-fire doors shall not exceed 5 pounds (22N).
Other doors shall be set into motion with a 30 pound force (133N) and swing to a full open position when subject to a 67 N force.

1010.1.8 Door arrangement - space between two doors shall be 48" min + width of dr 72" proposed + width of door

1010.1.10 Doors with an occupant load of more than 50 serving Group A shall be provided with panic hardware or fire exit hardware.

1011.2 Stairway width shall not be less than 44" 60" provided

1011.3 Stairway headroom shall be 80" minimum 98" provided

1011.5 Stair riser height shall be between 4" and 7" 6 13/16" provided
Treads shall be 11" minimum 11" provided

1011.6 Landing shall be provided at the top and bottom of each stairway, the width equal to the stairway and the length not less than equal to the width of the stairway.

1011.7 Stairway shall be constructed of the type permitted by II-B Construction

1011.8 Maximum Vertical Rise of Flight of Stairs is 12'-0" 9'-7" proposed

1011.11 Stairways shall have handrails on each side.

1011.12 Stairway to roofs only required in buildings four or more stories in height No stair to roof proposed. Ladder Provided.

1011.16 Permenant ladders permitted for spaces frequented only by personnel for maintenance, repair, or monitoring equipment

1013.1 Exit signs shall be readily visible from any direction of egress travel.
Exception 1: Rooms or areas than require only one means of egress
Exception 2: Mainexterior exit doors obviously and clearly identifiable as exits where approved by building official

BUILDING CODE SYMBOLS KEY

EGRESS TRAVEL PATH
COMMON PATH OF EGRESS TRAVEL PATH
DIAGONAL / EXIT SEPARATION LINE - REQUIRED
DIAGONAL / EXIT SEPARATION LINE - PROVIDED
1 HOUR RATED FIRE WALL
2 HOUR RATED FIRE WALL
SMOKE RATED WALL
FE FIRE EXTINGUISHER
DESIGNATED EXIT

OCCUPANCY NAME
OCCUPANCY TYPE | OCC. LOAD FACTOR
SQUARE FEET
OF OCCUPANTS

EXIT DOOR NUMBER
REQUIRED WIDTH IN INCHES
PROVIDED WIDTH IN INCHES
NUMBER OF OCCUPANTS THROUGH
FACTOR THAT IS USED TO DETERMINE REQ'D WIDTH

REQUIRED WIDTH IN INCHES
PROVIDED WIDTH IN INCHES
NUMBER OF OCCUPANTS THROUGH STAIRS SERVE WHICH LEVELS
FACTOR THAT IS USED TO DETERMINE REQ'D WIDTH

OCCUPANCY TYPE LEGEND
A-2 A-3 B F M S

1014 Handrails shall comply with 1012. Handrails shall be 34" to 38" above nosing

1015.2 Guards shall be located along open-sided walkways located more than 30" above the floor below.

1015.3 Guards shall be min 42" high from the walking surface

1015.4 Guards shall have openings so that a 4" sphere cannot pass up to a height of 36" and a 4 3/8" sphere cannot pass form 346" to 42".
Exception 3 - at elevated access to MEP systems, guards shall not have openings that allow passafe of a sphere 21" in diameter

1015.6 / 1015.7 Guards shall be provided at MEP equipment and at Roof hatch when within 10' of the roof edge and extend 30" min beyond the equipment unless fall arrest connectors are provided

1016.2.1 Multiple tenants - Each tenant shall have access to the required exits without passing through adjacent tenant spaces

1017.2 Exit Access Travel distance shall not exceed 250' (with Sprinkler System) 198' Max Proposed

1018.3 Aisles in Group M Occupancy = 44" min as per 1020.2 72" Min proposed

1019.3 Exit access stair does not need to be enclosed in a shaft enclosure as it serves only one story and it's associated mezzanine and is not open to other stories

1020.1 Corridor walls with Sprinkler System in Group A, B, F, M and S not required to be fire rated

1020.2 Corridor width shall be lot less than 44" unless serving occupant load <50, then 36" min.

1020.4 Maximum Dead End for when more than one exit required
No dead ends proposed in spaces where more than one exit is required

1028.1 All exits discharge directly to the exterior of the building.

1028.5 Exit discharge provides a direct and unobstructed acces to a public way

1029.2 Assembly spaces with occupant loads more than 300 shall have a main exit that fronts one street or an unoccipied space 10' in width that adjoins a street or public way

1029.7 Max Travel distance is 250' in sprinklered buildings. See Chart Below forTravel Distances.

1029.8 Common path of travel shall not exceed 30' in Assembly occupancy. See Plans for Proposed

11. Chapter 11 - Accessibility

1104.1 Accessible Route provided within the site from arrival points to the building

1104.2 Accessible Route provided to connect all accessible elements and accessible spaces

1104.4 Accessible Route provided to connect accessible story to the mezzanine (elevator provided)

1105.1 At least 60% of public entrances shall be accessible - 100% proposed

1106.1 Total Parking Provided: 110 Min Number of Accessible Spaces = 5 Provided = 5

1106.5 At least one of the accessible space shall be a van space

1106.6 Accessible spaces shall be located on the shortest route to an accessible building entrance

1106.7 Passenger loading zone shall be accessible

1109.2 Toilet rooms shall be accessible
Exception 3: Where multiple Single-User toilet rooms are clustered, min 50% must be accessible

1109.2.1 Family or Assisted-use toiet room shall be provided

1109.2.3 Where lavatories are provided at least 5% shall be accessible

1109.3 Where sinks are provided at least 5% shall be accessible

1111 Signage shall be accessible

REQUIRED PLUMBING FIXTURES

Level	OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	DRINKING FOUNTAINS	Area
LEVEL 1								
LEVEL 1	A-2	606	4.04	4.04	1.52	1.52	1.21	9,086 SF
LEVEL 1	F	6	0.03	0.03	0.03	0.03	0.02	1,197 SF
LEVEL 1	M	360	0.36	0.36	0.24	0.24	0.36	21,268 SF
LEVEL 1	S	14	0.07	0.07	0.07	0.07	0.01	3,312 SF
		986	4.50	4.50	1.86	1.86	1.60	34,863 SF
MEZZANINE								
MEZZANINE	A-2	150	1.88	1.88	1.00	1.00	0.30	2,236 SF
MEZZANINE	B	12	0.24	0.24	0.15	0.15	0.12	1,166 SF
MEZZANINE	S	17	0.09	0.09	0.09	0.09	0.02	3,923 SF
		179	2.20	2.20	1.24	1.24	0.44	7,324 SF
TOTAL		1165	6.70	6.70	3.09	3.09	2.04	42,187 SF

EXIT ACCESS PATH DISTANCE

PATH NAME	LENGTH
PATH A	182' - 6 1/8"
PATH A COMMON PATH	14' - 11"
	197' - 5 1/8"
PATH A'	188' - 8 7/8"
	188' - 8 7/8"
PATH B	139' - 11 3/8"
PATH B COMMON PATH	60' - 7 1/8"
	200' - 6 1/2"
PATH B'	192' - 5 3/4"
	192' - 5 3/4"
PATH C	85' - 0 1/2"
	85' - 0 1/2"
PATH C'	80' - 8 1/4"
	80' - 8 1/4"
PATH D	122' - 5 1/2"
PATH D COMMON PATH	52' - 5 7/8"
	174' - 11 3/8"
PATH D'	130' - 2 7/8"
	130' - 2 7/8"
PATH E	76' - 0"
	76' - 0"
PATH E'	69' - 2 7/8"
	69' - 2 7/8"
PATH F	116' - 11 1/2"
	116' - 11 1/2"
PATH F'	66' - 10 3/8"
	66' - 10 3/8"
PATH G	127' - 1 1/4"
	127' - 1 1/4"
PATH G'	55' - 6"
	55' - 6"
PATH G"	89' - 3 1/4"
	89' - 3 1/4"
PATH G""	57' - 7 1/4"
PATH G"" COMMON PATH	31' - 10"
	89' - 5 1/4"
PATH H	146' - 0 1/4"
	146' - 0 1/4"
PATH H'	120' - 4 1/2"
	120' - 4 1/2"
PATH H"	88' - 6 3/4"
	88' - 6 3/4"
PATH H"'	74' - 2 1/4"
	74' - 2 1/4"
PATH I	39' - 5 1/2"
	39' - 5 1/2"
PATH I'	35' - 5 1/8"
	35' - 5 1/8"
PATH K	33' - 6 1/2"
	33' - 6 1/2"

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN — DAGMARA K. LARSEN — 13278-5 — MINNEAPOLIS MN — ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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BUILDING CODE SUMMARY

G005

MATERIAL SOURCING AND HUMAN HEALTH

The following materials used in building this project meet exceptional sourcing and human health criteria, and set an example for transformation of the building industry.

ID	DESCRIPTION	LOW CARBON	HUMAN HEALTH	SALVAGED MATERIAL	LOCAL CONSTRUCTION	RECYCLED CONTENT	COMMENTS
CT-2	CERAMIC WALL TILE				•	•	Fireclay tile, made by a B Corp, recycled clay body, has an HPD
LINO-1	LINOLEUM - MILLWORK			•		•	Biobased product that performs without added chemicals such as formaldehyde that would be in laminate
PNL-1A	WALL PROTECTION PANEL	•	•		•		Wall protective panels that are bio-based instead of vinyl
WD-1A	COLOR THRU FIBERBOARD	•	•		•		Structure and finish, through-color fiber panels
WD-2	PLYWOOD		•	•			Plywood with no added urea-formaldehyde

ENVELOPE OPTIMIZATION

BUILDING CODE: 2015 IBC
ENERGY CODE: 2015 IECC

WINDOW TO WALL RATIO

Location		Area	Percent
North Wall	Opaque	3,551 SF	84 %
	Glazed	688 SF	16 %
East Wall	Opaque	3,336 SF	57 %
	Glazed	2,554 SF	43 %
South Wall	Opaque	2,350 SF	55 %
	Glazed	1,889 SF	45 %
West Wall	Opaque	4,263 SF	73 %
	Glazed	1,607 SF	27 %
Entire Envelope	Opaque	13,520 SF	67 %
	Glazed	6,738 SF	33 %

GLAZING CRITERIA

Location	U-Factor		SHGC		VLT	
	Code Req.	Project	Code Req.	Project	Code Req.	Project
North Wall	0.36	0.39	0.53	0.39	.58	0.70
East Wall	0.36	0.39	0.40	0.39	0.44	0.70
South Wall	0.36	0.39	0.40	0.39	0.44	0.70
West Wall	0.36	0.39	0.40	0.39	0.44	0.70

OPAQUE ENVELOPE CRITERIA

Location	U-Value		R-Value	
	Code Req.	Project	Code Req.	Project
Roof	0.032	0.033	R-31.25	R-30.3
Walls: Above Grade	0.080	0.083	R-12.5	R-12
Walls: Below Grade	0.119	N/A	R-8.4	N/A
Floors	0.064	N/A	R-15.63	N/A
Slab on Grade	F-0.54	F-0.73	R-1.85	R-1.37

DEFINITIONS

EUI (ENERGY USE INTENSITY): A building's annual energy use per unit area. A lower EUI indicates a more energy efficient building.

R-VALUE: The capacity of a material to resist heat flow. Higher R-value indicates more heat resistance.

U-FACTOR: The rate at which glazing conducts heat. Lower U-factor indicates better heat resistance (inverse of R-value).

SHGC (SOLAR HEAT GAIN COEFFICIENT): The amount of solar radiation admitted through a window and released as heat to the interior. The higher the number, the more heat will be transmitted.

VLT (VISIBLE LIGHT TRANSMITTANCE): The amount of the visible spectrum of sunlight transmitted through the glazing. The higher the number, the more light will enter the space.

LPD (LIGHTING POWER DENSITY): A measure of the lighting watts per square foot. The lower the number, the less electricity is needed to operate the building's lighting.

sDA (SPATIAL DAYLIGHT AUTONOMY): A measure of how much daylight a space received over an annual basis on a scale of 0 - 100%.
75%+ is bright enough to work without electric lighting in most instances.
55 - 74% will occasionally be acceptable for working without electric lighting.

ASE (ANNUAL SUNLIGHT EXPOSURE): Percentage of floor area receiving direct sunlight, which can indicate visual discomfort (glare). 10% or less is often preferred.

DESIGN FOR RESOURCES

BUILDING EMBODIED CARBON

Building embodied carbon / SF benchmark	63 tC02e/SF
Building embodied carbon / SF	43 tC02e/SF
Percent reduction in building embodied carbon	32%

ADAPTIVE REUSE

Does the project incorporate existing structure?	YES
Does the project incorporate existing envelope?	YES

MATERIAL REUSE

Embodied carbon saved through material reuse	35 tC02e/SF
Percent reduction in building embodied carbon from material reuse	45%

MATERIAL OPTIMIZATION STRATEGIES

How were materials optimized with regard to carbon or other parameters?

Due to the building re-use and future work by the vendors, there are relatively few finish materials which allow for a simplified palette and focus on selecting alternatives to industry standard toxic materials.

The largest carbon impact is on the new project slab and interior support foundations and the steel armature for supporting the flexible infrastructure for future vendors.

DESIGN FOR ENERGY

PROJECT INFORMATION

Climate zone	6A
Site area	154,900 SF
Building area	48,030 GSF
Rating System & Target Certification	LEED v3 Gold

LIGHTING POWER DENSITY (LPD)

Baseline LPD	1.68 Watts/SF
Project LPD	0.50 Watts/SF
LPD Reduction %	70%

OPERATING ENERGY (EUI)

Baseline EUI	302
2030 Challenge target EUI	91
Project EUI	150
Energy use reduction %	50%

MONITOR ENERGY PERFORMANCE

Is there an agreement to monitor energy performance after occupancy?	No

DESIGN FOR WATER

POTABLE WATER USE

Baseline potable water use	427,780 gal/yr
Project potable water use	131,333 gal/yr
Potable water use reduction %	70%

RAINFALL CAPTURE

Is rainwater collected for reuse on site?	Yes
Rainwater collected annually	385,000 gal/yr

WATER REUSE

Is greywater reused on site?	No

STORMWATER MANAGEMENT

Percent rainwater managed on site	9%
Percent of Total Suspended Solids (TSS) removed from stormwater runoff	60%

DESIGN FOR WELLNESS

VIEWS

Percent of regularly occupied floor area / workstations with direct views of the outdoors	90.1%

DAYLIGHT

Percent of regularly occupied floor area achieving adequate light levels through daylighting only - Spatial daylight autonomy	51% sDA

NATURAL VENTILATION

Percent of regularly occupied floor area / workstations within 30' of operable windows	25.6%

OCCUPANCY SATISFACTION

Will a post occupancy evaluation be conducted?	To Be Determined

DESIGN FOR ECOLOGY

SITE METRICS

Percent of site pre-project supporting vegetation	10%
Percent of site designated to support vegetation	12%
Percent of landscaped areas covered by native or climate-appropriate plants	90%

SITE FEATURES How will the project promote biodiversity and support native or migratory animals?

The existing site is very tight with very little existing impervious surface. The green space that remains will utilize resilient native plant species, trees, and prairie grasses. This will eliminate the need for the Market to mow and provide upkeep or irrigation of the planting areas.

DESIGN FOR INTEGRATION

PROJECT SUMMARY STATEMENT How are building performance strategies integrated within the project's overall design and performance goals?

The project used a set of guiding principals established at the first stakeholder meeting and utilized those principals throughout as a touchstone to guide project discussions, decisions, and site and building design elements. In particular, the lens of equity was applied to all decisions to ensure the market would be an attraction for a diverse mix of visitors and vendors. The design team incorporated input from the Foundation's market consultants, potential vendors, and project committee members consisting of City staff and Foundation representatives to provide spaces that would function well and serve the varying need of the users.

DESIGN FOR DISCOVERY

HOW PEOPLE LEARN FROM THIS PROJECT How does this project make high performance experiential and serve as an educational opportunity?

The story of transformation of the Market from an industrial garage into a vibrant incubator for economic growth will carry through the existing building elements and salvaged materials that once served the garage. The site is also very sensitive to stormwater, and the visibility and prominence of the rainwater collection cistern, filters, and pump equipment will engage the public to learn more about stormwater management and reuse and the importance it plays on everyday life.

DESIGN FOR EQUITABLE COMMUNITIES

COMMUNITY ENGAGEMENT STRATEGY How did this project engage the community during the design process and through designed outcomes?

The project team hosted several public engagement meetings to solicit ideas, aspirations and concerns from the community. The first of these was a large gathering on the project site itself at the outset of the schematic process and another occurred near the end of the design development phase to share how the guiding principles had been reflected in the project design, one that strived to meet the community's expectations. Other meetings with committees, foundation members and their consultants were also involved throughout to always maintain a focus on how the project would best serve the vendors and the visitors to the Market.

DESIGN FOR ECONOMY

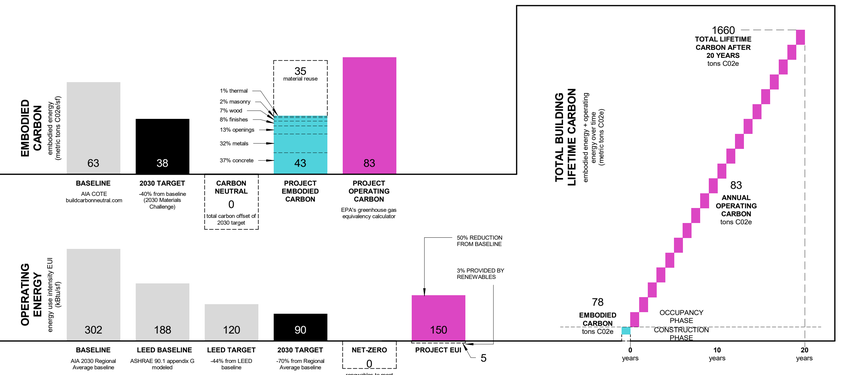
EFFICIENCY STRATEGY How is this project economical?

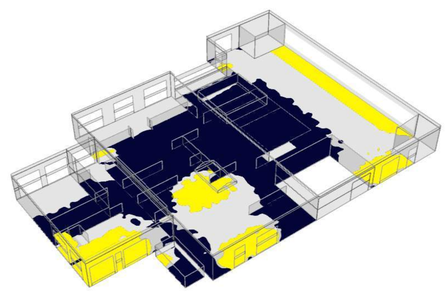
The building program areas, vendor mix and operations have been balanced with the economic formulations to maximize the use of the existing building area that best serves the new use. The re-use of the existing structure and much of the envelope saves a great deal of capital costs and the open areas that will serve the Market are flexible to serve a wide variety in size of vendors. When over budget, creative ways to cut scope were identified that would not diminish the experience of the visitors or success of the vendors.

DESIGN FOR CHANGE

RESILIENCY STRATEGY What are the project's resiliency and passive survivability strategies?

With anticipated regular turnover of vendors, flexibility to support a wide variety of vendors and the ability to customize vendor areas have been a main focus for economic resiliency. Physical resiliency is reflected through selection of durable materials including selective replacement of the existing envelope at grade to increase resistance to damage from users and the environment. While overall stormwater management falls short of independent metrics, the outsized impact of flooding in the area mean that even the small increased ability to manage stormwater on site further augments the project's ability to withstand greater destructive storms as they become more frequent.





Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien
2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

Civil Engineer

Vierbicher
999 Fourier Dr. Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2018006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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SUSTAINABILITY METRICS

G006

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TOPOGRAPHIC SYMBOL LEGEND

- EXISTING BOLLARD
- EXISTING FLAG POLE
- EXISTING MONITORING WELL
- EXISTING SIGN
- EXISTING CURB INLET
- EXISTING ENDWALL
- EXISTING FIELD INLET RECTANGULAR
- EXISTING ROOF DRAIN
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE RECTANGULAR
- EXISTING SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER MAIN VALVE
- EXISTING WATER MANHOLE
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING AIR CONDITIONING PEDESTAL
- EXISTING DOWN GUY
- EXISTING ELECTRIC MANHOLE
- EXISTING ELECTRIC RECTANGULAR MANHOLE
- EXISTING ELECTRIC PEDESTAL
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UNIDENTIFIED MANHOLE
- EXISTING HANDICAP PARKING
- EXISTING TRAFFIC SIGNAL
- EXISTING SHRUB
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING BORING
- EXISTING STEEL PIPE IN CONCRETE
- EXISTING CONCRETE

DEMOLITION PLAN LEGEND

- CURB AND GUTTER REMOVAL
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BUILDING REMOVAL
- TREE REMOVAL
- SAWCUT
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL

EROSION CONTROL LEGEND

- 820 — EXISTING MAJOR CONTOURS
- 818 — EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- SILT FENCE
- CLASS II SILT SOCK
- DISTURBED LIMITS
- INLET PROTECTION
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE A
- TRACKING PAD
- RIP RAP

TOPOGRAPHIC LINEWORK LEGEND

- UTV — UTV — EXISTING UNDERGROUND CABLE TV
- OHTV — OHTV — EXISTING OVERHEAD CABLE TV
- FO — FO — EXISTING FIBER OPTIC LINE
- UT — UT — EXISTING UNDERGROUND TELEPHONE
- EXISTING CHAIN LINK FENCE
- EXISTING WROUGHT IRON FENCE
- EXISTING WOOD FENCE
- G — G — EXISTING GAS LINE
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- OHE — OHE — EXISTING OVERHEAD ELECTRIC LINE
- OHU — OHU — EXISTING OVERHEAD GENERAL UTILITIES
- FM — FM — EXISTING SANITARY FORCE MAIN (SIZE NOTED)
- SAN — SAN — EXISTING SANITARY SEWER LINE (SIZE NOTED)
- SAN — SAN — EXISTING ABANDONED SANITARY SEWER LINE
- ST — ST — EXISTING STORM SEWER LINE (SIZE NOTED)
- WM — WM — EXISTING WATER MAIN (SIZE NOTED)
- 850 — EXISTING MAJOR CONTOUR
- 852 — EXISTING MINOR CONTOUR
- EXISTING GUARD RAIL
- EXISTING LANDSCAPING EDGE

PROPOSED UTILITY LEGEND

- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL
- STORM SEWER CURB INLET
- STORM SEWER CURB INLET W/MANHOLE
- STORM SEWER FIELD INLET
- ROOF DRAIN CLEANOUT
- SANITARY SEWER PIPE (GRAVITY)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER SERVICE
- FIRE HYDRANT
- WATER VALVE
- PROPOSED PIPE INSULATION
- G — G — GAS MAIN
- UE — UE — ELECTRIC SERVICE
- UT — UT — FIBER OPTIC SERVICE

ABBREVIATIONS

STMH – STORM MANHOLE
FI – FIELD INLET
CI – CURB INLET
CB – CATCH BASIN
EW – ENDWALL
SMH – SANITARY MANHOLE

EXISTING CONDITIONS NOTES:

1. THIS SURVEY IS BASED UPON FIELD SURVEY WORK PERFORMED ON NOVEMBER 13–21 AND DECEMBER 4, 5 & 11, 2019. ANY CHANGES IN SITE CONDITIONS AFTER DECEMBER 11, 2019 ARE NOT REFLECTED BY THIS SURVEY.
2. UTILITY LOCATIONS WERE FIELD LOCATED BASED UPON SUBSTANTIAL, VISIBLE, ABOVE GROUND STRUCTURES, UPON MAPS PROVIDED TO THE SURVEYOR, OR UPON MARKINGS ON THE GROUND PLACED BY UTILITY COMPANIES AND/OR THEIR AGENTS PER DIGGER'S HOTLINE TICKET NUMBERS 20194609101, 20194900941 AND 20194900957. NO WARRANTY IS GIVEN TO THE UTILITY MARKINGS BY OTHERS OR THAT ALL UNDERGROUND UTILITIES AFFECTING THIS PROPERTY WERE MARKED AND SUBSEQUENTLY LOCATED FOR THIS SURVEY. THE SIZE OF WATER MAIN AND SANITARY SEWER HAS BEEN NOTED PER MAPS PROVIDED TO THE SURVEYOR. PRIVATE UTILITIES WERE NOT LOCATED AS PART OF THIS PROJECT
3. THE GARAGE BUILDINGS ARE CONCRETE FOUNDATION WALLS WITH A STYROFOAM STUCCO FINISH WHICH IS GENERALLY 0.1' THICK. THE LOWER ACCENT STUCCO IS 0.17' THICK. BUILDINGS WERE LOCATED TO THE EDGE OF THE STUCCO. GARAGE BUILDING WALLS AND DIMENSIONS SHOWN HEREON ARE TO THE CONCRETE FOUNDATION WALLS.
4. THE APPROXIMATE LOCATION AND SIZE OF THE UNDERGROUND FUEL TANKS ARE SHOWN PER THE POTTER LAWSON SITE PLAN DATED 7–27–1992, PROJECT NUMBER 9202600, AS PROVIDED BY THE CITY OF MADISON ENGINEERING DEPARTMENT.
5. ALL BORINGS DEPICTED IN THE SOIL BORING LOCATION EXHIBIT PREPARED BY CGC, INC., JOB NO. 19051–10, ARE SHOWN, EXCEPT FOR BORING NUMBERS 4, 5, 9, 13 & 14 WERE NOT FOUND AND ARE SHOWN HEREON PER THE CGC, INC. EXHIBIT MAP.
6. ELEVATIONS DEPICTED HEREON ARE BASED UPON THE NAVD88(1991) DATUM AS PROVIDED BY CITY OF MADISON ENGINEERING DEPARTMENT. A BENCHMARK LEVEL CIRCUIT BY VIERBICHER ESTABLISHED ELEVATIONS ON ALL CONTROL POINTS AND BENCHMARKS. TOPOGRAPHIC DATA WAS COLLECTED BY ROBOTIC TOTAL STATION AND GPS.
7. BEARINGS ARE REFERENCED TO GRID NORTH PER THE WISCONSIN COUNTY COORDINATE SYSTEM–DANE COUNTY ZONE, NAD 83(1997) AS ESTABLISHED FROM CONTROL PROVIDED BY THE CITY OF MADISON ENGINEERING DEPARTMENT.
8. THE RIGHT–OF–WAY OF EAST JOHNSON STREET AND NORTH FIRST STREET WAS ESTABLISHED PER THE TRANSPORTATION PROJECT PLAT NO'S. 5992–09–09–4.02, AND 5992–09–09–4.03, RECORDED AS DOCUMENT NUMBERS 5392054 AND 5392055.
9. THIS SURVEY IS BASED UPON A REPORT OF TITLE–UPDATE, FILE NOS. 820577L & 820574L, DATED DECEMBER 20, 2019, AS PROVIDED BY KNIGHT BARRY TITLE GROUP, 2450 RIMROCK ROAD, SUITE 204, MADISON, WI 53713.
10. THIS SURVEY MAP WAS PREPARED AT THE REQUEST OF THE CITY OF MADISON ENGINEERING DEPARTMENT, ROOM 115, CITY COUNTY BUILDING, 210 MARTIN LUTHER KING JR. BOULEVARD, MADISON, WI, 53703–3346.

GENERAL NOTES:

1. INSTALL A TRACKING PAD WITH MINIMUM DIMENSIONS OF 50'L X 20'W X 1.5'D AT THE SITE EXIT. THE TRACKING PAD SHALL BE MAINTAINED/REPAIRED FREQUENTLY TO AVOID THE TRACKING OF SEDIMENT OUTSIDE OF CONSTRUCTION LIMITS.
2. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR. ALL MAINTENANCE/REPAIR WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
3. UTILITY STRUCTURE RIM AND TOP OF CURB ELEVATIONS ON PLANS ARE APPROXIMATE. ALL UTILITY STRUCTURES SHALL BE SET TO FINAL ELEVATIONS AFTER THE CURB & GUTTER AND BASE COURSE HAVE BEEN INSTALLED.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING CONSTRUCTION TO PUBLIC PROPERTY, PRIVATE PROPERTY OR UTILITIES.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER, PRIOR TO PLACING AN ORDER OF ANY SUCH ITEM.
6. EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD OBSERVATIONS AND/OR PLAN OF RECORD DRAWINGS. CONTRACTOR SHALL VERIFY TOPOGRAPHIC INFORMATION PRIOR TO STARTING CONSTRUCTION.
7. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SANITARY SEWER, STORM SEWER AND WATER MAIN PRIOR TO CONSTRUCTION TO ENSURE PROPER CLEARANCE OF THE NEW UTILITIES. CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THE EXISTING UTILITIES AND ANY REPAIRS NEEDED AS A RESULT OF THE DAMAGE SHALL BE AT THE EXPENSE OF THE CONTRACTOR REGARDLESS OF THE LOCATION MARKED IN THE FIELD OR SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF STREET SWEEPING (NOT FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.
9. RIGHT OF WAY (ROW) AND PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTATION. ANY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
10. CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.
11. INSTALL WATER MAIN/SERVICES AT ADEQUATE DEPTH (MIN 6.5' OF COVER) TO AVOID CONFLICT WITH PROPOSED SANITARY SEWER AND STORM SEWER PER DNR STANDARDS.
12. SANITARY MANHOLES WITH SEWER MAIN CONNECTIONS GREATER THAN 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN EXTERNAL DROP. MANHOLES WITH SEWER LATERAL CONNECTIONS GREATER THAT 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN INTERNAL DROP.
13. INSTALL 1 SHEET OF 4'x8'x4" HIGH DENSITY POLYSTYRENE INSULATION AT ALL LOCATIONS WHERE STORM SEWER CROSSES WATER MAIN OR WATER SERVICE LATERALS. PROVIDE MINIMUM 18" SEPARATION WHEN WATER MAIN CROSSES BELOW SEWER AND MINIMUM 6" SEPARATION WHEN WATER MAIN CROSSES ABOVE SEWER.
14. CONTOURS ARE SHOWN FOR PURPOSES OF INDICATING ROUGH GRADING. FINAL GRADES SHALL BE ESTABLISHED ON PAVED SURFACES BY USING SPOT GRADES ONLY.
15. CONTRACTOR SHALL DEEP TILL ANY DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETE AND BEFORE RESTORING.
16. CONTRACTOR SHALL UTILIZE DIRECTIONAL TRACKING ON SLOPES AS A TEMPORARY GRADING PRACTICE TO CREATE RIDGES FROM VEHICLE TRACKS WHICH PREVENT SOIL EROSION.

DEMOLITION NOTES:

1. CONTRACTOR SHALL KEEP ALL CITY STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.
2. INSTALL ALL APPLICABLE EROSION CONTROL MEASURES PRIOR TO STARTING DEMOLITION.
3. ALL SAWCUTTING SHALL BE FULL DEPTH TO PROVIDE A CLEAN EDGE TO MATCH NEW CONSTRUCTION. MATCH EXISTING ELEVATIONS AT POINTS OF CONNECTION FOR NEW AND EXISTING PAVEMENT, CURB, SIDEWALKS, ETC. ALL SAWCUT LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO ACCOMMODATE CONDITIONS, JOINTS, MATERIAL TYPE, ETC. REMOVE MINIMUM AMOUNT NECESSARY FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
4. CONTRACTOR SHALL PROVIDE AND SHALL BE RESPONSIBLE FOR ANY NECESSARY TRAFFIC CONTROL SIGNAGE AND SAFETY MEASURES DURING DEMOLITION AND CONSTRUCTION OPERATIONS WITHIN OR NEAR THE PUBLIC ROADWAY.
5. COORDINATE TREE REMOVAL WITH LANDSCAPE ARCHITECT. ALL TREES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY AND STUMPS SHALL BE GROUND TO 12" BELOW PROPOSED SUBGRADE. ALL BRUSH SHALL BE CLEARED/REMOVED WITHIN DISTURBANCE LIMITS.
6. IF APPLICABLE, PROVIDE TREE PROTECTION FENCING PRIOR TO CONSTRUCTION OPERATIONS. MAINTAIN THROUGHOUT CONSTRUCTION.
7. COORDINATE ABANDONMENT OF ELECTRICAL LINES WITH ELECTRICAL ENGINEER AND OWNER PRIOR TO DEMOLITION.
8. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEMOLITION AND UTILITY ABANDONMENT/PLUGGING PERMITS FROM THE LOCAL MUNICIPALITY/UTILITY AGENCY.
9. ANY DAMAGE TO THE CITY PAVEMENT, INCLUDING DAMAGE RESULTING FROM CURB REPLACEMENT, WILL REQUIRE RESTORATION IN ACCORDANCE WITH THE CITY STANDARDS.

UTILITY NOTES:

1. SANITARY & STORM SEWER LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. STORM SEWER END SECTIONS ARE INCLUDED IN THE LENGTH AND SLOPE OF THE PIPE.
2. CONTRACTOR SHALL INVESTIGATE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY STRUCTURES TO FINISHED GRADE (MANHOLE RIMS, WATER VALVES, AND CURB STOPS), IF NECESSARY.
4. FOR ALL SEWER AND WATER MAIN CROSSINGS: PROVIDE MINIMUM 18" SEPARATION WHEN WATER MAIN CROSSES BELOW SEWER AND MINIMUM 6" SEPARATION WHEN WATER MAIN CROSSES ABOVE SEWER.
5. IF DEWATERING OPERATIONS EXCEED 70 GALLONS PER MINUTE OF PUMPING CAPACITY, A DEWATERING WELL PERMIT SHALL BE OBTAINED PRIOR TO STARTING ANY DEWATERING ACTIVITIES.
6. A COPY OF THE APPROVED UTILITY PLANS, SPECIFICATIONS AND PLUMBING PERMIT APPROVAL LETTER SHALL BE ON–SITE DURING CONSTRUCTION AND OPEN TO INSPECTION BY AUTHORIZED REPRESENTATIVES OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND OTHER LOCAL INSPECTORS.
7. STORM BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30–6 OF SPS 384.30(3)(c).
8. PRIVATE WATER SERVICES AND PRIVATE WATER MAINS SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30–7 OF SPS 384.30(4)(d).
9. PRIVATE SANITARY SEWER AND LATERALS SHALL BE POLYVINYL CHLORIDE (PVC) ASTM D3034 – SDR 35 OR APPROVED EQUAL MATERIAL THAT CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 384.30–3 OF SPS 384.30(2)(c).
10. A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED PER SPS 382.10(11)(h) AND SPS 382.40(8)(k).
11. EXTERIOR WATER SUPPLY PIPING SETBACKS AND CROSSINGS SHALL BE IN ACCORDANCE WITH SPS 382.40(8)(b.).
12. NO PERSON MAY ENGAGE IN PLUMBING WORK IN THE STATE UNLESS LICENSED TO DO SO BY THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER S.145.06.
13. THE CONTRACTOR SHALL LEAVE SANITARY AND WATER LATERALS FIVE (5) FEET SHORT (HORIZONTALLY) FROM THE BUILDING. BUILDING PLUMBER SHALL VERIFY SIZE, LOCATION, AND INVERT ELEVATION OF PROPOSED SANITARY AND WATER LATERALS.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. THE CITY IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DUE TO THE CONTRACTOR NOT VERIFYING THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE APPLICANT WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE, AT THE POINT OF CONNECTION.
15. CLEAN OUT ALL EXISTING AND PROPOSED STORM INLETS AND CATCH BASINS AT THE COMPLETION OF CONSTRUCTION.
16. CONTRACTOR SHALL NOTIFY RAY SCHNEIDER (608)–347–3628, RAYS@MADSEWER.ORG 5 DAYS PRIOR TO INISTALLING MMSD MANHOLE TO ARRANGE FOR PERMITTING AND INSPECTION OF THE MANHOLE INSTALLATION. STRUCTURE SHALL CONFORM TO ALL MMSD SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR MMSD PERMIT FEE. MMSD CASTING IS REQUIRED WHICH WILL BE ORDERED BY MMSD AND REIMBURSED BY THE CONTRACTOR.

AGENCIES:

EMERGENCY–FIRE, RESCUE, AMBULANCE, POLICE
DIAL 911

MADISON METROPOLITAN SEWERAGE DISTRICT
1610 MOORLAND ROAD
MADISON, WI 53714–3398
PHONE: 608–222–1201
JEN HURLEBAUS, PE

MADISON POLICE DEPARTMENT
211 S. CARROL ST
MADISON, WI 53703
PHONE: 608–255–2345 NON–EMERGENCY

MADISON FIRE DEPARTMENT
314 W. DAYTON ST.
MADISON, WI 53703
PHONE: 608–266–4420 NON–EMERGENCY

MADISON METRO
1245 E. WASHINGTON AVE.
SUITE 201
MADISON, WI 53703
TIM SOBOTA
PHONE: 608–261–4289

UTILITIES:

MG&E (GAS & ELECTRIC)
PO BOX 1231
MADISON WI 53701
SHAUN ENDRES
PHONE: 608–252–7224 (O)
608–516–7913 (C)

CHARTER COMMUNICATIONS (CABLE TV)
2701 DANIELS STREET
MADISON, WI 53718
JON MARSCHKE
PHONE: 608–225–2479

TDS (TELEPHONE + FIBER)
1912 PARMENTER ST
MIDDLETON, WI 53562
JERRY MYERS
PHONE: 608–664–4404

CITY OF MADISON – CITY ENGINEER
CITY–COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
ROBERT F. PHILLIPS, P.E.
PHONE: 608–266–4090

CITY OF MADISON – SANITARY AND STORM SEWER ENGINEER
CITY–COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
GREG FRIES
PHONE: 608–267–1199

CITY OF MADISON – WATER UTILITY
119 EAST OLIN AVE.
MADISON, WI 53703
TOM HEIKKINEN, GENERAL MANAGER
PHONE: 608–266–4651

Sheet List Table

Sheet Number	Sheet Title
C000	Notes & Legends
C001	Existing Conditions Plan
C101	Demolition Plan
C201	Erosion Control Plan
C301	Utility Plan
C401	Construction Details - 1
C402	Construction Details - 2
C403	Construction Details - 3
C404	Construction Details - 4
C405	Construction Details - 5
C406	Construction Details - 6

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE
1–800–242–8511

EXISTING STORM STRUCTURE TABLE

NAME	TYPE	RIM	INVERT	DIRECTION
ST1	ENDW		847.90	NE
ST2	FIN	851.53	848.33	NW
			848.45	SE
			848.69	SW
ST3	FIN	851.23	849.30	NE
			849.05	W
ST4	FIN	851.84	849.76	S
ST5	FIN	850.80	847.86	NW
			847.80	SE
ST6	FIN	850.35	847.75	NW
			847.10	SE
			847.02	NE
ST7	CIN	850.26	848.15	SE
ST8	FIN	851.15	846.61	NW
			846.92	NE
			846.67	SE
			846.70	SW
ST9	FIN	851.03	846.59	NW
ST10	STMH	851.22	bolted	
ST11	STMH	851.23	847.15	NW
			846.53	NE
			846.88	SE
			846.68	SW
ST12	CIN	850.36	846.03	E
			846.04	S
ST13	CIN	850.47	846.36	NE
ST14	CIN	850.95	845.76	NW
			845.70	NE
			845.84	SW
ST15	STMH	849.81	845.14	NW
			845.14	NE
			845.14	SW
ST16	CIN	849.65	845.61	NW
			845.44	NE
ST17	FIN	849.00	845.70	NW
			845.69	SE
ST18	FIN	848.97	845.77	SE
ST19	CIN	849.85	845.80	NE
ST20	CIN	849.93	847.00	NW
ST21	CIN	850.57	846.17	NW
			846.65	SE
ST22	STMH	851.95	841.95	BOTTOM
ST23	STMH	BURIED	CITY TO DIG UP	N SW
ST24	STMH	853.17	842.12	BOTTOM
ST25	CIN	852.76	847.58	NW
			846.41	NE
			846.31	SE
ST26	CIN	851.90	846.88	NW
ST27	FIN	852.77	846.26	NW

EXISTING SANITARY STRUCTURE TABLE

NAME	TYPE	RIM	INVERT	DIRECTION
S1	SMH	853.93	832.79	NE
			832.79	SW
S2	SMH	852.13	832.75	NE
			846.44	SE
			832.63	SW
S3	SMH	851.22	841.58	NW
			842.62	NE
S4	SMH	852.14	832.56	SE
			832.64	SW
S5	SMH	852.63	832.63	NW
			832.41	NE
S6	FM-SMH	852.63	846.3top	NE-SW fm
S7	SMH	851.09	836.26	N
			836.33	E
S8	SMH	851.37	836.95	NE
			836.84	S
S9	SMH	851.44	837.32	NW
			837.16	NE
			842.49	E
			837.14	SW
S10	SMH	850.97	837.28	NW
			843.99	NE-SE fm
			837.73	SE
S11	SMH	850.49	837.26	N
			837.24	SE
S12	SMH	849.13	837.46	NW
			839.57	NE
			837.41	SW
S13	SMH	850.12	837.64	E
			837.76	N
S14	SMH	849.36	plugged	N
			842.09	NE
			841.34	SE
			841.33	SW
S15	SMH	849.61	841.89	NW
			plugged	NE
			841.92	SE
S16	SMH	851.20	846.55	NE
			846.66	SW
S17	SMH	850.52	843.64	NW
			843.87	NE
			843.83	SE

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Madison, WI 53562

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Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature _____

Print Name _____

Date _____ License No _____

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NOTES & LEGENDS

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BENCHMARK #1
HYDRANT/TOP NUT
(98' NORTH OF SMH)
ELEVATION=852.30

BENCHMARK #2
HYDRANT/TOP NUT
ELEVATION=853.36

BENCHMARK #3
HYDRANT/TOP NUT
ELEVATION=854.05

MADISON SQUARE RILEY PLAT
BLOCK 312

MADISON SQUARE RILEY PLAT
BLOCK 311

PUBLIC STREET – WIDTH VARIES
NORTH FIRST STREET

EAST DAYTON STREET

EAST JOHNSON STREET
PUBLIC STREET – WIDTH VARIES

APPROXIMATE LOCATION OF ATC SPARE TRANSMISSION LINE PER ATC PLANS DATED 7-13-2007 (LINE NOT MARKED)

A 29' Wide Access Easement over the adjacent MMSD lands is to be granted to the City of Madison. Easement shown at the request of City Engineering.

LOT 27
FARWELL'S REPLAT
AND ADDITION

1-STORY CONCRETE BUILDING

CALHOUN STREET
66' WIDE
(UNIMPROVED STREET)

25' WIDE
NO PARKING, LOADING OR UNLOADING PERMITTED PER DOC. NO. 2745620

UNNAMED STREET
66' WIDE
(UNIMPROVED STREET)

GRAND AVENUE
150' WIDE
(UNIMPROVED STREET)

200 N. FIRST STREET

202 N. FIRST STREET

206 N. FIRST STREET

120 N. FIRST STREET

COMMERCIAL GARAGE BUILDING
CONCRETE FOUNDATION WALLS
WITH STUCCO FACE. SEE NOTE #3

COMMERCIAL GARAGE BUILDING
CONCRETE FOUNDATION WALLS
WITH STUCCO FACE. SEE NOTE #3

WASTE OIL TANK

BOLLARD ATTACHED TO BUILDING (TYP.)

WASTE OIL TANK

ANTIFREEZE TANK

APPROXIMATE LOCATION OF 4" SANITARY LATERAL PER MMSD MAP 20_0217-PST-MMSD. (LINE NOT MARKED)

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MMSD PLANS DATED 4/7/1948 (LINE NOT MARKED)

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MARKINGS

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MARKINGS

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MARKINGS

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MMSD PLANS DATED 10/2000. (LINE NOT MARKED)

APPROXIMATE LOCATION OF ABANDONED SANITARY SEWER LINE PER MMSD PLANS DATED 10/2000. (LINE NOT MARKED)

APPROXIMATE LOCATION OF ABANDONED SANITARY SEWER LINE PER MARKINGS

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MARKINGS

APPROXIMATE LOCATION OF 1" WATER SERVICE PER 1999 CITY PLANS (UNMARKED LINE)

APPROXIMATE LOCATION OF OLD (AKA 1910) SEWAGE TREATMENT BEDS PER MMSD PLANS DATED 10/2000.

APPROXIMATE LOCATION OF 16" WATER MAIN PER MARKINGS

APPROXIMATE LOCATION OF WISE HIGH PRESSURE GAS MAIN PER WISE. (LINE NOT MARKED)

APPROXIMATE LOCATION OF ATC 69KV TRANSMISSION 8" PIPE WITH FIBER OPTIC, PER ATC (LINE NOT MARKED)

ATC 69KV TRANSMISSION 8" PIPE WITH FIBER OPTIC, PER ATC

ST23 LOCATION APPROXIMATE FROM CITY/WDOT PLANS – PROJECT ID'S 5992-09-14 & 5992-09-16

STORM SHOWN PER MARKINGS IN FIELD. NO STRUCTURES OR PLANS FOUND TO CONFIRM THESE MARKINGS.

TWO PIPE & FIELD INLET TO BE INSTALLED FOR THE MADISON PUBLIC MARKET PROJECT

APPROXIMATE UNDERGROUND FUEL TANK SIZES SEE NOTE #4.

APPROXIMATE LOCATION OF FUEL LINES PER 1962 CITY PLANS. (UNMARKED LINES)

APPROXIMATE LOCATION OF TIE LINES PER 1962 CITY PLANS. (UNMARKED LINES)

APPROXIMATE LOCATION PER 1994 CITY PLANS (UNMARKED LINE)

OVERHEAD FOR (PGLE TO BLDG)

SANITARY SEWER EASEMENT PER DOC. NO. 777760 (NO WIDTH LISTED)

SANITARY SEWER EASEMENT PER DOC. NO. 777760 (NO WIDTH LISTED)

SANITARY SEWER EASEMENT PER DOC. NO. 777778 (NO WIDTH LISTED)

SANITARY SEWER EASEMENT PER DOC. NO. 777778 (NO WIDTH LISTED)

10' WIDE SANITARY SEWER EASEMENT PER DOC. NO. 1617301 (CENTERED ON STRUCTURE & UTILITY MARKINGS)

10' WIDE SANITARY SEWER EASEMENT PER DOC. NO. 1617301 (CENTERED ON STRUCTURES)

10' WIDE SANITARY SEWER EASEMENT TO THE CITY OF MADISON PER DOC. NO. 1186554

30' WIDE SANITARY SEWER & FORCE MAIN EASEMENT TO MMSD PER DOC. NO. 3209080

20' WIDE SANITARY SEWER EASEMENT TO THE CITY OF MADISON PER DOC. NO. 3209080

20' WIDE PUBLIC SANITARY SEWER EMSEMENT TO THE CITY OF MADISON PER DOC. NO. 3209081

20' WIDE SANITARY SEWER EASEMENT PER DOC. NO. 3209080

36" RCP INTERCEPTOR

24" DIA. FORCEMAIN

COMMUNICATIONS EASEMENT PER DOC. NO. 4965434

COMMUNICATIONS EASEMENT PER DOC. NO. 4965434

BENCHMARK #4
3/4" ROD
ELEVATION=850.21

BENCHMARK #5
3/4" ROD
ELEVATION=850.48

BENCHMARK #6
CHISELED "X"
ELEVATION=850.62

LANDS FORMERLY CHICAGO, MILWAUKEE & ST. PAUL PACIFIC RAILROAD

FORMERLY UNION PACIFIC RAILROAD

RAILROAD TRACKS

WISDOT

WISDOT

STEEL SIDED GARAGE/STORAGE BUILDING
FFL EL=852.65

STEEL SIDED GARAGE/STORAGE BUILDING
FFL EL=852.50

STEEL SHED
FFL EL=852.45

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

CONCRETE SIDEWALK

CONCRETE CURB & GUTTER (TYPICAL)

ASPHALT

GRASS

PLANTS

PARKING AREA

CONCRETE

GAS PUMP ISLANDS

BOLLARD

ASPHALT PATH

EL=851.46
EL=850.97
EL=851.68
EL=850.46
EL=851.41
EL=851.12
EL=850.88
EL=851.98
EL=851.65

ULO – CAUTION UNDERGROUND UTILITIES. FOR ALL LOCATIONS MARKED "ULO" CONTRACTOR TO ULO PRIOR TO CONSTRUCTION TO CONFIRM NO CONFLICTS EXIST. ALL CONFLICTS TO BE REPORTED TO ENGINEER IMMEDIATELY PRIOR TO START OF UTILITY CONSTRUCTION.

GRAPHIC SCALE FEET
0 10 20 40

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Architecture and Interiors
MSRDesign
510 Marquette Avenue South, Suite 200
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2901 Metro Drive, Suite 225
Bloomington, MN 55425 | 651. 379. 9121

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Landscape Architect
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Fire Protection Engineering, Technology and AV
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Madison, WI 53562

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Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Sarah V. Church

Signature _____

Print Name _____

Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

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1	2023.06.09	BID DOCUMENTS

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EXISTING CONDITIONS PLAN

C001

BENCHMARK #1
HYDRANT/TOP NUT
(98' NORTH OF SMH)
ELEVATION=852.30

BENCHMARK #2
HYDRANT/TOP NUT
ELEVATION=853.36

BENCHMARK #3
HYDRANT/TOP NUT
ELEVATION=854.05

PUBLIC STREET – WIDTH VARIES
NORTH FIRST STREET

EAST DAYTON STREET

EAST JOHNSON STREET
PUBLIC STREET – WIDTH VARIES

REPLACE CURB AND GUTTER AND DAMAGED ASPHALT PER CITY OF MADISON REQUIREMENTS

SALVAGE EX INLET CASTINGS FOR CITY AND REPLACE WITH R-3067 FRAME TYPE R GRATE

REPLACE DAMAGED CURB AND GUTTER PER CITY OF MADISON REQUIREMENTS

REQUIRED 2" MILL AND OVERLAY DUE TO UTILITY WORK. FINAL LIMITS TO BE DETERMINED BY CONSTRUCTION ENGINEER.

SAWCUT EDGE

REMOVE TREE (TYP.)

REMOVE PLANTS

REMOVE FLAG POLE

REMOVE CONCRETE (TYP.)

REMOVE OIL INTERCEPTOR S16

WASTE OIL TANK

EQUIPMENT AND WASTE OIL TO BE DECOMMISSIONED AND REMOVED BY CITY

REMOVE BUILDING (TYP.)

200 N. FIRST STREET

202 N. FIRST STREET

206 N. FIRST STREET

120 N. FIRST STREET

COMMERCIAL GARAGE BUILDING
CONCRETE FOUNDATION WALLS
WITH STUCCO FACE. SEE NOTE #3

COMMERCIAL GARAGE BUILDING
CONCRETE FOUNDATION WALLS
WITH STUCCO FACE. SEE NOTE #3

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

REMOVE CURB AND GUTTER (TYP.)

REMOVE FENCE AND GATE

APPROXIMATE LOCATION OF WGRE HIGH PRESSURE GAS MAIN PER WGRE (LINE NOT MARKED)

ST23 LOCATION APPROXIMATE FROM CITY/WDOT PLANS – PROJECT ID'S 5992-09-14, 5992-09-15 & 5992-09-16

10'X4' BOX CULVERT

ASPHALT PATH

BOLLARD ATTACHED TO BUILDING (TYP.)

WASTE OIL TANK

ANTIFREEZE TANK

WASTE OIL AND ANTIFREEZE TANK TO BE DECOMMISSIONED AND REMOVED BY CITY

APPROXIMATE LOCATION OF 4" SANITARY LATERAL PER MMSD MAP 20_0217-P27-MMSD (LINE NOT MARKED)

CAP EXISTING SANITARY SERVICE AT THE INTERCEPTOR MAIN. LOCATION UNKNOWN.

APPROXIMATE LOCATION OF ABANDONED 30" SANITARY SEWER LINE PER MMSD PLANS DATED 4/7/48. (LINE NOT MARKED)

SAWCUT EDGE

STORM SHOWN PER MARKINGS IN FIELD. NO STRUCTURES OR PLANS FOUND TO CONFIRM THESE MARKINGS.

PROTECT EX. CAMERA

1-STORY BUILDING

REMOVE STORM SEWER (TYP.)

REMOVE BOLLARD (TYP.)

REMOVE FENCE

REMOVE RADIO TO RADIO TRANSMITTER. SECOND LOCATION ON FLEET SERVICES BUILDING. LOCATIONS UNKNOWN.

STEEL SHED
EL=852.45

PROTECT AND MAINTAIN THIS MONITORING WELL

REMOVE LIGHT POLE (TYP.)

STEEL SIDED GARAGE/STORAGE BUILDING
FFL EL=852.65

BENCHMARK #6
CHISELED "X"
ELEVATION=850.62

CONTRACTOR TO CONFIRM ALL MONITORING WELLS ARE DECOMMISSIONED AND FILLED PRIOR TO CONSTRUCTION

REMOVE FENCE (TYP.)

REMOVE ASPHALT (TYP.)

CONNECT EX PIPE TO NEW INLET

PROTECT BOLLARDS TO REMAIN

PROTECT BOLLARDS TO REMAIN

FFL EL=852.50
STEEL SIDED GARAGE/STORAGE BUILDING

REMOVE EXISTING FOLIAGE AND TREES BEHIND STORAGE BUILDING

TMG PIPE & FIELD INLET TO BE INSTALLED FOR THE MADISON PUBLIC MARKET PROJECT

RAILROAD TRACKS

WISDOT

BENCHMARK #5
3/4" ROD
ELEVATION=850.48

BENCHMARK #4
3/4" ROD
ELEVATION=850.21

GRAPHIC SCALE FEET
0 10 20 40

ULO – CAUTION UNDERGROUND UTILITIES. FOR ALL LOCATIONS MARKED "ULO" CONTRACTOR TO ULO PRIOR TO CONSTRUCTION TO CONFIRM NO CONFLICTS EXIST. ALL CONFLICTS TO BE REPORTED TO ENGINEER IMMEDIATELY PRIOR TO START OF UTILITY CONSTRUCTION.

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7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature

Print Name

Date License No

BID DOCUMENTS

ISSUE / REVISION

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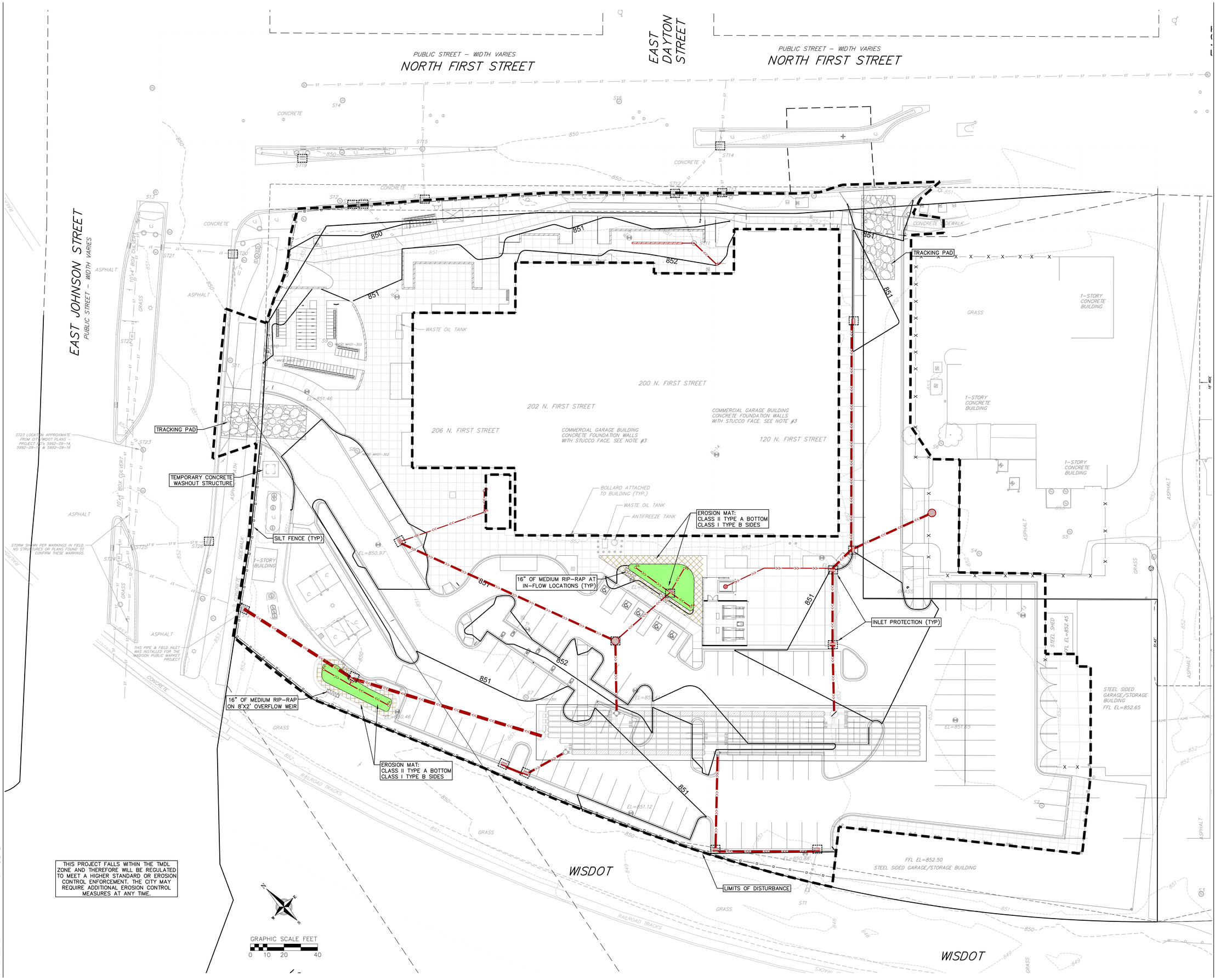
DEMOLITION PLAN

C101



THIS PROJECT FALLS WITHIN THE TMDL ZONE AND THEREFORE WILL BE REGULATED TO MEET A HIGHER STANDARD OR EROSION CONTROL ENFORCEMENT. THE CITY MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME.

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Architecture and Interiors
MSRDesign
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Minneapolis, MN 55402 | 612. 375. 0336

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Salas O'Brien
2901 Metro Drive, Suite 225
Bloomington, MN 55425 | 651. 379. 9121

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019000L00

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Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Sarah V. Church

Signature _____

Print Name _____

Date _____ **License No** _____

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EROSION CONTROL PLAN

C201

CONTRACTOR SHALL OBTAIN PERMIT TO PLUG AND ABANDON INACTIVE SERVICE LATERALS AT THE MAIN IN ACCORDANCE WITH CITY OF MADISON REQUIREMENTS.

PUBLIC STREET – WIDTH VARIES
NORTH FIRST STREET

EAST DAYTON STREET

PUBLIC STREET – WIDTH VARIES
NORTH FIRST STREET

EAST JOHNSON STREET
PUBLIC STREET – WIDTH VARIES

LIVE TAP EX MAIN

MAINTAIN EX 6" FIRE PROTECTION SERVICE TAPPED INTO EX WATER SERVICE. LOCATION UNKNOWN.

SALVAGE EX INLET CASTINGS FOR CITY AND REPLACE WITH R-3067 FRAME TYPE R GRATE

NEW 2ND FIBER LINE. COORDINATE WITH UTILITY CO.

ULO

CONNECT TO EX MH ADJUST RIM TO GRADE IE=848.50 NW IE=846.53 S

4" D.I. WATER SERVICE 6.5' BELOW GRADE

STORM CLEANOUT IE=847.33 N CONNECT BUILDING STORM AND CANOPY DOWNSPOUT

TRENCH DRAIN R-4995-A2 TYPE P GRATE

CONNECT TO EX LATERAL WITH CLEANOUT AND 6" PVC 1.04% MIN SLOPE. APPROX IE=846.66

19'-8" HDPP STORM @ 4.28%

NEW 18,500 GALLON CISTERN INSIDE THE BUILDING. SEE ARCH/PLUMBING PLANS.

S12: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=851.13 IE=848.83 SW

200 N. FIRST STREET

202 N. FIRST STREET

206 N. FIRST STREET

120 N. FIRST STREET

COMMERCIAL GARAGE BUILDING CONCRETE FOUNDATION WALLS WITH STUCCO FACE. SEE NOTE #3

136'-12" RCP STORM @ 0.50%

COMMERCIAL GARAGE BUILDING CONCRETE FOUNDATION WALLS WITH STUCCO FACE. SEE NOTE #3

ADJUST RIM TO SURFACE

ROUTE DOWNSPOUTS TO STORM SEWER

EX FIBER TO BE ABANDONED. COORDINATE WITH UTILITY CO.

APPROXIMATE ROUTE OF NEW FIBER LINE. COORDINATE WITH UTILITY CO.

BIO-RETENTION BASIN #1 W/ TYPE A LINER ~611 SF @ EL=850.30

IE=849.10

4" PVC SANITARY SEWER IE=847.33

GREASE INTERCEPTOR. SEE PLUMBING PLANS FOR DETAILS

S10: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=850.91 IE=848.05 SW IE=848.05 E IE=848.55 NW

53'-12" RCP STORM @ 0.51%

S51: 48" CONC FI R-2050 FRAME TYPE C GRATE RIM=851.84 IE=848.42 W

54'-6" HDPP STORM @ 1.11%

6" FLOOR DRAIN FOR SCISSOR LIFT

S11: 2' x 3' CI R-3067 FRAME TYPE V GRATE RIM=850.99 IE=848.15 NE IE=848.15 W IE=848.15 E

S5: 2' x 3' CI R-3362-L FRAME TYPE L GRATE RIM=850.30 IE=848.50 S IE=848.50 SE

S6: 2' x 3' CI R-1878-B7G FRAME TYPE A GRATE RIM=851.10 IE=848.13 W IE=848.30 N IE=848.30 E IE=848.30 S

66'-6" HDPP @ 1.04% MIN

MH01-300A 72" DOGHOUSE MH INSIDE DROP IE=846.49 NE DC PERMIT REQ. SEE UTILITY NOTE #16 ON C-000

16'-12" RCP STORM @ 0.64%

CONNECT TO EX FI IE = 846.30

142'-12" RCP STORM @ 0.49%

S1: 2' x 3' CI R-1878-B7G FRAME TYPE A GRATE RIM=849.75 IE=846.60 N IE=846.60 SE IE=847.30 W

43'-8" HDPP STORM @ 0.76%

46'-12" RCP STORM @ 0.54%

OIL AN GREASE FILTER (TYP)

CURB CUT TO FLUME

NEW CITY FIBER TO REPLACE RADIO TRANSMITTER. COORDINATE WITH UTILITY CO.

S4: 48" CONC FI R-2050 FRAME TYPE C GRATE RIM=852.03 IE=847.80 E IE=847.80 N IE=847.80 SW

S9: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=850.07 IE=847.80 SW IE=847.80 NE

77'-18" RCP STORM @ 0.39%

ADJUST RIM TO SURFACE

6" PERFORATED UNDERDRAIN (TYP)

39'-15" HDPP STORM @ 0.57%

41'-12" HDPP STORM @ 0.53%

BIO-RETENTION BASIN #2 W/ TYPE A LINER ~410 SF @ EL=849.30

118'-18" RCP STORM @ 0.34%

RELOCATE 1" WATER SERVICE AROUND DETENTION SYSTEM

S13: 60" STMH R-1689 FRAME SOLID LID RIM=850.50

ARCH CHAMBER STORMWATER DETENTION SYSTEM WITH ISOLATOR ROWS & TYPE A LINER

S2: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=850.16 IE=847.85 SE

25'-12" HDPP STORM @ 0.67%

56'-12" HDPP STORM @ 0.63%

60'-12" RCP STORM @ 0.65%

S3: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=850.24 IE=847.75 NW IE=847.75 E

14'-12" RCP STORM @ 0.71%

S7: 2' x 3' CI R-3067 FRAME TYPE R GRATE RIM=850.70 IE=847.93 NE IE=847.93 SE

S8: 2' x 3' CI R-3067 FRAME TYPE V GRATE RIM=851.07 IE=848.32 NW IE=848.32 SW

WISDOT

WISDOT

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

1-STORY CONCRETE BUILDING

STEEL SIDED GARAGE/STORAGE BUILDING FFL EL=852.65

STEEL SIDED GARAGE/STORAGE BUILDING FFL EL=852.50

STEEL SHED FFL EL=852.45

APPROXIMATE LOCATION OF WGRE HIGH PRESSURE GAS MAIN PER WGRE. (LINE NOT MARKED)

ST23 LOCATION APPROXIMATE FROM CITY/WDOT PLANS – PROJECT NO'S 5992-09-14, 5992-09-15 & 5992-09-16

STORM SHOWN PER MARKINGS IN FIELD. NO STRUCTURES OR PLANS FOUND TO CONFIRM THESE MARKINGS.

THIS PIPE & FIELD INLET WAS INSTALLED FOR THE MADISON PUBLIC MARKET PROJECT

APPROXIMATE LOCATION OF 4" SANITARY LATERAL PER MMSD MAP 20_0251-PST-MMSD. (LINE NOT MARKED)

APPROXIMATE LOCATION OF 1" WATER SERVICE PER 1999 CITY PLANS (UNMARKED LINE)

APPROXIMATE LOCATION OF ABANDONED 24" SANITARY SEWER LINE PER MMSD PLANS DATED 4/7/48. (LINE NOT MARKED)

LOCATION PER 1992 CITY PLANS (UNMARKED LINE)

GRAPHIC SCALE FEET
0 10 20 40

ULO – CAUTION UNDERGROUND UTILITIES. FOR ALL LOCATIONS MARKED "ULO" CONTRACTOR TO ULO PRIOR TO CONSTRUCTION TO CONFIRM NO CONFLICTS EXIST. ALL CONFLICTS TO BE REPORTED TO ENGINEER IMMEDIATELY PRIOR TO START OF UTILITY CONSTRUCTION.

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Architecture and Interiors
MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer
Salas O'Brien
2901 Metro Drive, Suite 225
Bloomington, MN 55425 | 651. 379. 9121

Civil Engineer
Vierbicher
999 Fourier Dr, Suite 201,
Madison, WI 53717 | 608. 826. 0532

Landscape Architect
Ken Saiki Design
1110 S. Park St,
Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV
IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1600 Stout St, Suite 450
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 2019000L00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature
Print Name
Date License No

BID DOCUMENTS

ISSUE / REVISION

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UTILITY PLAN

C301

EROSION CONTROL MEASURES

1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.

2. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (http://dnr.wi.gov/runoff/stormwater/techstds.htm) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.

3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.

4. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.

5. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WisDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.

7. CHANNELIZED RUNOFF: FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.

8. STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25-FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.

9. SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).

10. IN NO CASE WILL RIP-RAP BE SMALLER THAN 3" TO 6".

11. INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. ALL PROJECT AREA STORM INLETS NEED WISCONSIN D.O.T. TYPE D INLET PROTECTION. THE FILTERS SHALL BE MAINTAINED UNTIL THE CITY HAS ACCEPTED THE BINDER COURSE OF ASPHALT.

12. TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.

13. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.

14. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.

15. EROSION MAT (CLASS I, TYPE A URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1.

16. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.

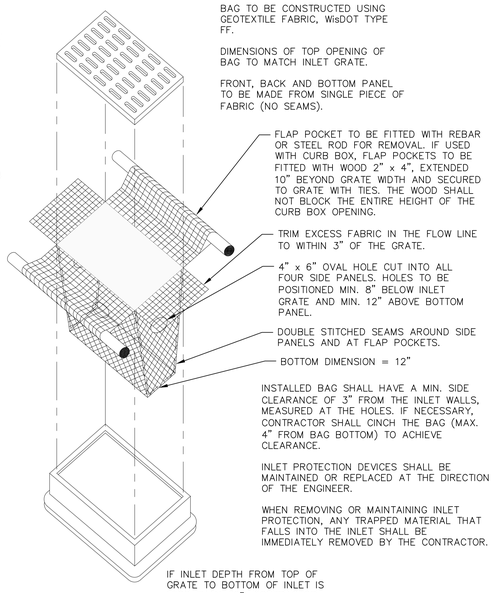
17. SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAIL 1/C401.

18. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.

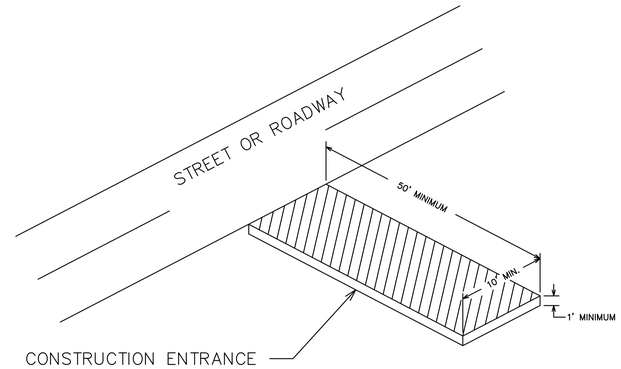
19. ACCUMULATED CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM ALL PERMANENT BASINS TO THE ELEVATION SHOWN ON THE GRADING PLAN FOLLOWING THE STABILIZATION OF DRAINAGE AREAS.

20. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF MADISON AND DNR.

21. THE CITY, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.



1 / 401 INLET PROTECTION TYPE D
NOT TO SCALE



GENERAL NOTES:

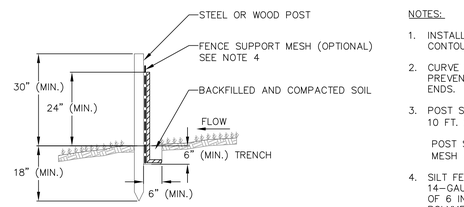
1. CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
2. THE AGGREATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
3. AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
4. THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WDOT TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNERLYING SOIL INTO THE STONE.
5. SURFACE WATERS MUST BE PREVENTED FROM PASSING THROUGH THE CONSTRUCTION ENTRANCE. FLOWS SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE OR CONVEYED UNDER AND AROUND THEM BY USE OF A CULVERT, DIVERSION BERM OR OTHER PRACTICES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50% COVERED BY TRACKED MUD.

2012

CITY OF MADISON ENGINEERING DIVISION
CONSTRUCTION ENTRANCE
STANDARD DETAIL DRAWING 1.07

CONSTRUCTION SEQUENCE:

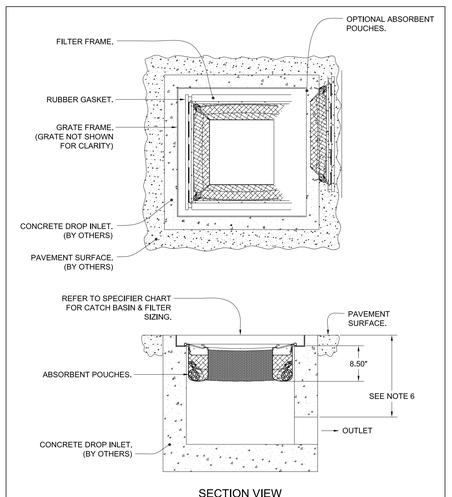
1. INSTALL EROSION CONTROL MEASURES
2. CONDUCT DEMOLITION
3. STRIP TOPSOIL (UNWORKED AREAS MAY REMAIN NON-STABILIZED FOR A MAXIMUM OF 14 DAYS)
4. ROUGH GRADE SITE
5. CONSTRUCT UNDERGROUND UTILITIES
6. INSTALL INLET PROTECTION IN NEW INLETS
7. CONSTRUCT PAVEMENT
8. FINAL GRADE AND RESTORE DISTURBED AREA
9. REMOVE EROSION CONTROL MEASURES AFTER DISTURBED AREAS ARE 70% RESTORED OR PAVED.



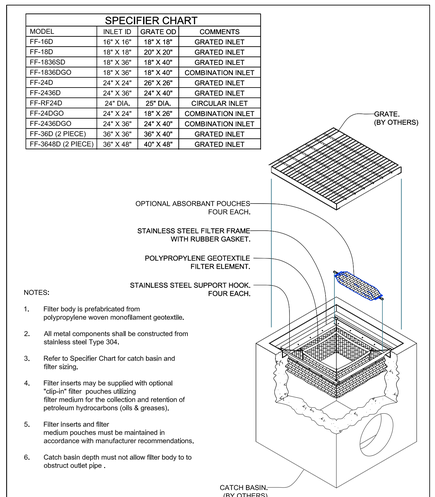
NOTES:

1. INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
2. CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE ENDS.
3. POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.)
   POST SPACING WITHOUT FENCE SUPPORT MESH = 6 FT. (MAX.)
4. SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH

2 / 401 SILT FENCE
NOT TO SCALE



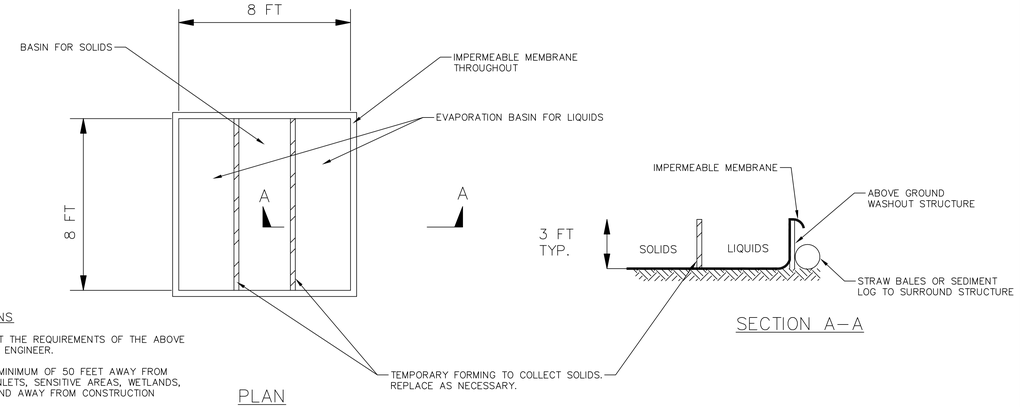
SPECIFIER CHART			
MODEL	INLET ID	GRATE OD	COMMENTS
FF-16D	16" X 16"	18" X 18"	GRATED INLET
FF-18D	18" X 18"	20" X 20"	GRATED INLET
FF-1836SD	18" X 36"	18" X 40"	GRATED INLET
FF-1836DGO	18" X 36"	18" X 40"	COMBINATION INLET
FF-24D	24" X 24"	26" X 26"	GRATED INLET
FF-2436D	24" X 36"	24" X 40"	GRATED INLET
FF-RF24D	24" DIA.	25" DIA.	CIRCULAR INLET
FF-24DGO	24" X 24"	18" X 26"	COMBINATION INLET
FF-2436DGO	24" X 36"	24" X 40"	COMBINATION INLET
FF-36D (2 PIECE)	36" X 36"	36" X 40"	GRATED INLET
FF-3648D (2 PIECE)	36" X 48"	40" X 48"	GRATED INLET



NOTES:

1. Filter body is prefabricated from polypropylene woven monofilament geotextile.
2. All metal components shall be constructed from stainless steel Type 304.
3. Refer to Specifier Chart for catch basin and filter sizing.
4. Filter inserts may be supplied with optional "clip-in" filter pouches utilizing filter medium for the collection and retention of petroleum hydrocarbons (oils & greases),
5. Filter inserts and filter medium pouches must be maintained in accordance with manufacturer recommendations,
6. Catch basin depth must not allow filter body to to obstruct outlet pipe .

3 / 401 STORM INLET OIL FILTER
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. WASHOUT STRUCTURE SHALL MEET THE REQUIREMENTS OF THE ABOVE DETAIL OR AS APPROVED BY THE ENGINEER.
2. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
3. PREPARE BASE TO BE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

ABOVE GROUND WASHOUT STRUCTURE

4 / 401 TEMPORARY CONCRETE WASHOUT (ABOVE GROUND)
NOT TO SCALE

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Landscape Architect
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Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV
IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1600 Stout St, Suite 450
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature _____
Print Name _____
Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

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CONSTRUCTION DETAILS - 1

C401

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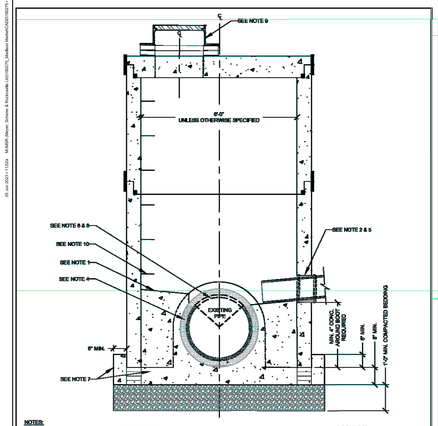
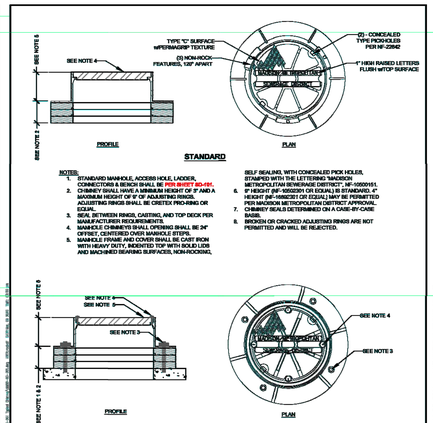


NOTES:
1. MANHOLE & BENCH SHALL BE PER SHEET SD-101.
2. A DROP CONNECTION IS REQUIRED IF THE INVERT ELEVATION OF THE ENTERING SEWER IS 2' OR MORE ABOVE THE SPRING LINE OF THE OUTGOING SEWER. SEE SHEET SD-104 FOR INSIDE DROP AND SHEET SD-105 FOR OUTSIDE DROP CONNECTIONS.
3. MANHOLE MUST BE INSPECTED AND APPROVED BY MMSD DISTRICT INSPECTOR, CALL 608-222-1201 THREE DAYS PRIOR TO MANHOLE INSTALLATION.
4. "DOGHOUSE" OPENING SHALL BE WATERTIGHT WITH VOID BETWEEN MANHOLE AND EXISTING PIPE FILLED WITH NON-SHRINK GROUT. INSTALL CONTINUOUS WATERSTOP STRIP AROUND THE PIPE, BASE SLAB, AND AROUND THE DOGHOUSE OPENING AT THE CENTER OF THE WALL PRIOR TO GROUTING.
5. WATERTIGHT RESILIENT CONNECTOR REQUIRED.
6. SUPPORT STRUCTURE & EXISTING PIPE AS NECESSARY DURING CONSTRUCTION.
7. CONCRETE BASE MUST BE POURED IN-PLACE & VIBRATED. REBAR NOT SHOWN AND TO BE DESIGNED BY ENGINEERING CONSULTANT.
8. REMOVE A LENGTH OF 3.0', UNLESS OTHERWISE DIRECTED, OF EXISTING PIPE FROM INTERIOR OF MANHOLE AFTER BENCH IS POURED TO ALLOW FORMS NECESSARY TO ASSURE DEBRIS DOES NOT ENTER SEWER.
9. CHIMNEY, FRAME, & COVER PER SHEET SD-201.
10. CHIMNEY AND STEPS SHALL BE PLACED TO AVOID CONFLICT WITH CONNECTIONS.

NOT TO SCALE

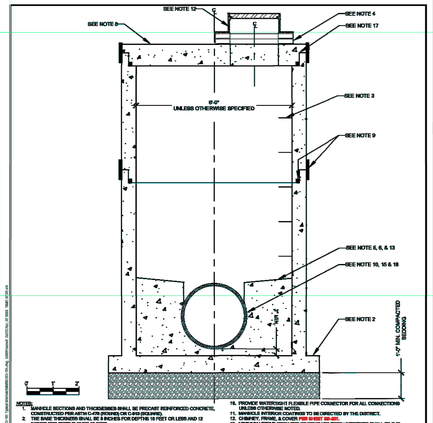
Madison Metropolitan Sewerage District — STANDARD DOGHOUSE MANHOLE — SD-103



NOTES:
1. STANDARD MANHOLE, ACCESS HOLE, LADDER, CONNECTORS & BENCH SHALL BE PER SHEET SD-101.
2. CHIMNEY SHALL HAVE A MINIMUM HEIGHT OF 3" AND A MAXIMUM HEIGHT OF 9" OF ADJUSTING RINGS. ADJUSTING RINGS SHALL BE CRETEX PRO-RING OR EQUAL.
3. SEAL BETWEEN RINGS, CASTING, AND TOP DECK PER MANUFACTURER'S REQUIREMENTS.
4. MANHOLE CHIMNEYS SHALL HAVE OPENING SHALL BE 24" OFFSET, CENTERED OVER MANHOLE STEPS.
5. MANHOLE FRAME AND COVER SHALL BE CAST IRON WITH HEAVY DUTY, INSERTED TOP WITH SOLID LIDS AND MACHINED BEARING SURFACES, NON-ROCKING, SELF SEALING, WITH CONCEALED PICK HOLES, STAMPED WITH THE LETTERING "MADISON METROPOLITAN SEWERAGE DISTRICT", NF-1060016-1.
6. 9" HEIGHT (NF-1850391 OR EQUAL) IS STANDARD. 4" HEIGHT (NF-1850231 OR EQUAL) MAY BE PERMITTED WHERE CLEARANCE IS LIMITED AS APPROVED BY ENGINEER.
7. CHIMNEY SEALS DETERMINED ON A CASE-BY-CASE BASIS.
8. BROKEN OR CRACKED ADJUSTING RINGS ARE NOT PERMITTED AND WILL BE REJECTED.

NOT TO SCALE

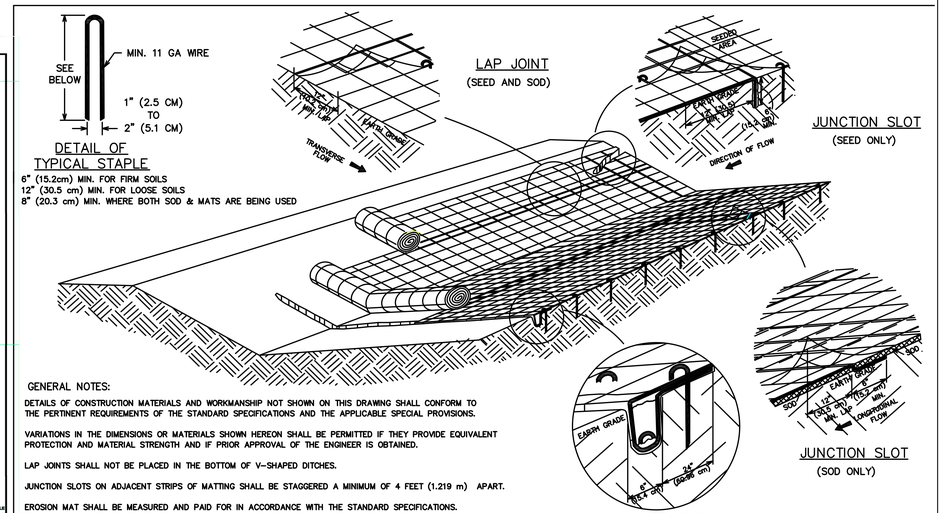
Madison Metropolitan Sewerage District — STANDARD MANHOLE CHIMNEY — SD-201



NOTES:
1. MANHOLE SECTIONS AND THICKENESSES SHALL BE PRECAST REINFORCED CONCRETE, CONFORMING TO ASTM C478 AND AASHTO M199.
2. THE BASE THICKNESS SHALL BE 8 INCHES FOR DEPTHS 15 FEET OR LESS AND 12 INCHES FOR DEPTHS OVER 15 FEET.
3. MANHOLE STEPS SHALL BE PLACED AT CLEAR WALL OR MANHOLE OPENINGS FOR ANY STEPS LOCATED WITHIN 3' THE MANHOLE WALL OPENING. OR BRAZED. TO A 30" DEPTH. STEPS SHALL NOT BE INSTALLED IN ERRANT SEWER MANHOLES WITH LESS THAN A 30" DEPTH. IF INSTALLED, STEPS SHALL BE ALL REMOVED OR EQUAL, AND INSTALLED TO THE MANUFACTURER'S RECOMMENDATIONS. STEPS SHALL BE INSTALLED AT 16" CENTERS AND SHALL BE ALIGNED VERTICALLY.
4. MANHOLE CHIMNEYS SHALL HAVE PICK 2 TO 9 INCHES OF ADJUSTING RINGS. OPENING SHALL BE 24" OFFSET, CENTERED OVER BENCH & MANHOLE STEPS (IF ANY).
5. MANHOLE FRAME AND COVER SHALL BE CAST IRON WITH HEAVY DUTY, INSERTED TOP FOR TYPES 30 DIA. OR LARGER, ON TOP THE TYPE GARDEN FOR TYPES LESS THAN 30" DIA. BENCH SHALL BE SLOPED 1" - 2" PER FOOT.
6. TOP DECK SHALL BE FLAT TOP UNLESS OTHERWISE NOTED.
7. JOINTS SHALL RECEIVE NON-SHRINKING BUTYL RUBBER SEALANT MINIMUM THICKNESS 3/4", TYP. LOCKJOINT JOINT-SEAL RUBCAL JOINT PROTECTION SUCH AS SKETCHUP OR APPROVED EQUAL. TO A MINIMUM WIDTH OF 6", TYP.
8. SECURE LID TO CASTING IN HOLES WITH 1/2" BOLT WITH 3/8" HEX HEAD, WASHER, AND RUBBER GASKET. ALL HARDWARE TO BE STAINLESS STEEL. COAT LID HARDWARE WITH ANTI-SEIZE LUBRICANT BEFORE INSTALLING.
9. LID SHALL BE NF-1916540R OR EQUAL WITH 4" RAISED LETTERS AND TYPE "C" CHECKERED TOP DESIGN 'WIFERMAGRIP' SURFACE TEXTURE. 9" FRAME SHALL BE NF-1916538R OR EQUAL.
10. PROVIDE WATERTIGHT FLEXIBLE PIPE CONNECTOR FOR ALL CONNECTIONS UNLESS OTHERWISE NOTED.
11. MANHOLE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE DISTRICT.
12. CHIMNEY, FRAME, & COVER PER SHEET SD-201.
13. MINIMUM HEIGHT FROM TOP OF BENCH TO BEGIN UNDERSIDE SHALL BE 7'-6".
14. PICKHOLES SHALL NOT BE PLACED IN BOTTOM OF V-SHAPED DITCHES. PICKHOLES SHALL BE SEALED WITH NON-SHRINK GROUT OR EQUAL. EXPANSION PLUGS SHALL NOT BE USED.
15. INSTALL ALL PEDICLES SHALL BE REMOVED PRIOR TO BACKFILLING.
16. SEAT EXPANSION SHALL BE PLACED AND INSTALLED AT THE 12 O'CLOCK POSITION WITH SCREW ENDS CAPPED, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
17. CONCRETE OPENINGS MUST BE CURED FOR SURFACE APPLIED WATERTIGHT FLEXIBLE PIPE CONNECTORS (I.E. KOR-N-SEAL BOOTS). POURING ONLY ACCEPTABLE IF WATERTIGHT CONNECTOR IS INSTALLED AT THE TIME OF POUR.
18. FOR A RECONSTRUCTED MANHOLE, IF A JOINT BETWEEN MANHOLE SECTIONS IS NOT A TONGUE AND GROOVE CONFIGURATION, THE CONTRACTOR SHALL INSTALL DOWELS AT A MINIMUM OF THREE LOCATIONS AND EQUALLY SPACED AROUND THE MANHOLE. THE DOWELS SHALL BE #5 REBAR AND SHALL BE PROTECTED FROM CORROSION. IN MANHOLES 36" DIAM. THE CONTRACTOR MAY INSTALL 5/16" DIA. THREADED ROD IN LIEU OF #5 REBAR. THE CONTRACTOR SHALL PLACE A MINIMUM OF THREE LOCATIONS ON THE OUTSIDE OF THE MANHOLE. THE PLATES SHALL BE ANCHORED WITH TWO 3/8" DIAMETER SS1 BOLTS OR ANCH SHOLTZ OF THE JOINT AT ALL LOCATIONS.

NOT TO SCALE

Madison Metropolitan Sewerage District — STANDARD TYPICAL MANHOLE — SD-101



GENERAL NOTES:

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET (1.219 m) APART.

EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

EROSION MAT OVER SOD:

a. ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.

b. WOOD STAKES FOR SOD MAY BE OMITTED BY THE ENGINEER IF EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT.

c. THE WIDTH OF EROSION MAT SHALL ALWAYS EXCEED THE SOD WIDTH.

EROSION MAT OVER SEEDING:

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48 m) ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET (15.24 m) ON GRADES EXCEEDING 3 PERCENT.

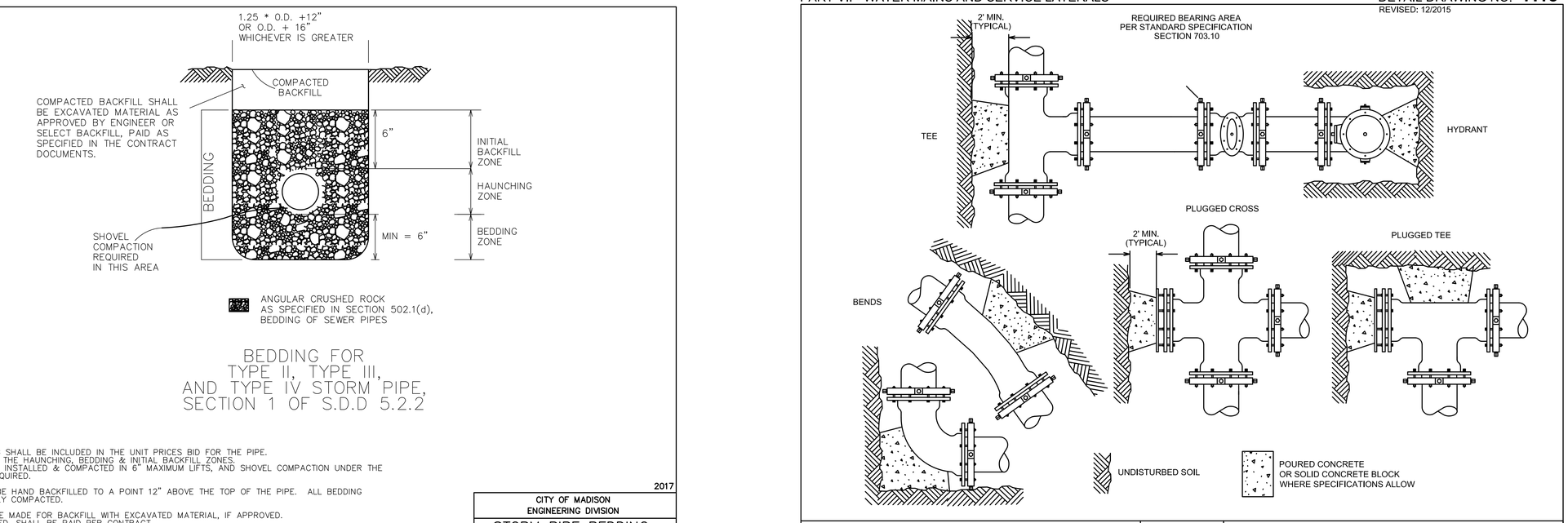
DRAWING NOT TO SCALE

2004

CITY OF MADISON
ENGINEERING DIVISION

EROSION MAT

STANDARD DETAIL DRAWING 1.02



BEDDING FOR TYPE II, TYPE III, AND TYPE IV STORM PIPE, SECTION 1 OF S.D.D 5.2.2

NOTES:

THE COSTS OF BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PIPE.
THE BEDDING INCLUDES THE HAUNCHING, BEDDING & INITIAL BACKFILL ZONES.
THE BEDDING SHALL BE INSTALLED & COMPACTED IN 6" MAXIMUM LIFTS, AND SHOVEL COMPACTION UNDER THE HAUNCH OF PIPE IS REQUIRED.

ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.

PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL, IF APPROVED. SELECT FILL, IF REQUIRED, SHALL BE PAID PER CONTRACT.

THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MIN SPECIFIED PLUS 12", AND SHALL APPLY FROM THE BOTTOM OF THE TRENCH TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THIS WIDTH IS EXCEEDED, THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGHER TYPE OF BEDDING AT NO EXTRA COST. THE TYPE OF BEDDING SHALL BE DETERMINED BY THE ENGINEER.

O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

DRAWING NOT TO SCALE

2017

CITY OF MADISON
ENGINEERING DIVISION

STORM PIPE BEDDING AND BACKFILL– SECTION 1 OF S.D.D.5.2.2

STANDARD DETAIL DRAWING 5.2.1A

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.13**

REVISED: 12/2015

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

STANDARD CONCRETE BLOCK THRUST RESTRAINT

City of Madison Standard Specifications for Public Works Construction

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MEP Engineer

Salas O'Brien
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Bloomington, MN 55425 | 651. 379. 9121

Civil Engineer

Vierbicher
999 Fourier Dr, Suite 201,
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV

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1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1600 Stout St, Suite 450
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN — SARAH CHURCH E-39369 MADISON, WI — PROFESSIONAL ENGINEER

Signature _____

Print Name _____

Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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CONSTRUCTION DETAILS - 2

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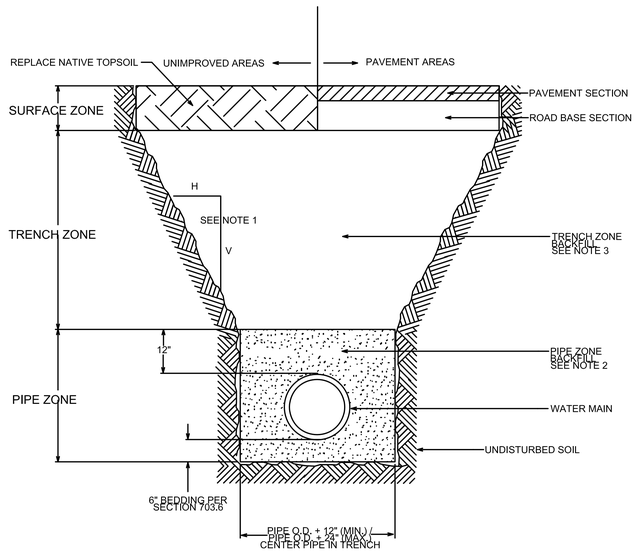
PART VII - WATER MAINS AND SERVICE LATERALS DETAIL DRAWING NO. 7.01
REVISED: 12/2015



NOTES:

1) ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE WISCONSIN ADMINISTRATIVE CODE FOR "TRENCH EXCAVATION AND TUNNEL CONSTRUCTION" AND ANY ADDITIONAL REQUIREMENTS INCLUDING IN THE CONTRACT DOCUMENTS.

2) BACKFILL OPERATIONS SHALL COMPLY WITH SECTIONS 703.6 AND 202.2(B) OF THE STANDARD SPECIFICATIONS.

3) THE PIPE ZONE BEDDING MATERIAL SHALL CONSIST OF SELECT FILL SAND, LIMESTONE SCREENINGS, CLEAR STONE, OR WASHED GRAVEL.

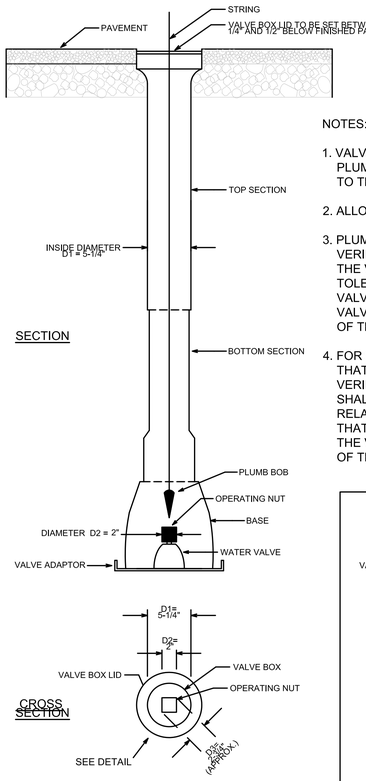
4) SEE SECTION 703.6.1 FOR BACKFILL/COMPACTION REQUIREMENTS OF BEDDING/COVER MATERIAL IN THE PIPE ZONE.

5) TRENCH ZONE COMPACTION REQUIREMENTS:
– ALL COMPACTION OPERATIONS SHALL COMPLY WITH SECTION 703.6.3
– DENSITY REQUIREMENTS:
1. FROM 2-FEET OVER THE PIPE TO WITHIN 3-FEET OF THE SUBGRADE:
A MINIMUM OF 90% OF MAXIMUM DENSITY.
2. WITHIN 3-FEET OF THE BOTTOM OF SUBGRADE:
A MINIMUM OF 95% OF MAXIMUM DENSITY.

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL WATER PIPE TRENCH

City of Madison Standard Specifications for Public Works Construction

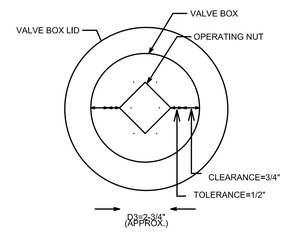
PART VII - WATER MAINS AND SERVICE LATERALS DETAIL DRAWING NO. 7.06
REVISED: 12/2016



NOTES:

1. VALVE BOX SHALL BE LOCATED PLUMB AND CENTERED WITH RESPECT TO THE VALVE OPERATING NUT.
2. ALLOWABLE TOLERANCE SHALL BE 1/2"
3. PLUMBNESS AND ALIGNMENT SHALL BE VERIFIED WITH A PLUMB BOB, LOCATING THE VALVE NUT WITHIN THE ALLOWABLE TOLERANCE, AND CONFIRMING THAT THE VALVE IS OPERATIONAL WITHOUT THE VALVE KEY TOUCHING THE INSIDE EDGE OF THE VALVE BOX.
4. FOR STREETS WITH SLOPE GREATER THAN 3% THAT DOES NOT ALLOW EASY PLUMBNESS VERIFICATION, THE VALVE BOX STRAIGHTNESS SHALL BE VISUALLY ASSESSED VERIFYING ITS RELATIVE CENTERED POSITION, CONFIRMING THAT THE VALVE IS OPERATIONAL WITHOUT THE VALVE KEY TOUCHING THE INSIDE EDGE OF THE VALVE BOX AND RESTRICTING ITS USE.

DETAIL

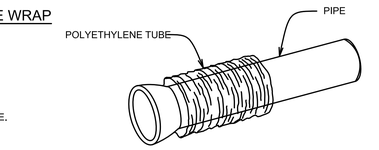


CITY OF MADISON WATER UTILITY	NOT TO SCALE	WATER VALVE BOX ALIGNMENT

City of Madison Standard Specifications for Public Works Construction

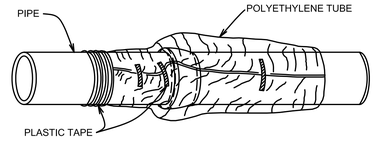
PART VII - WATER MAINS AND SERVICE LATERALS DETAIL DRAWING NO. 7.02
REVISED: 12/2015

FIELD INSTALLATION-POLYETHYLENE WRAP

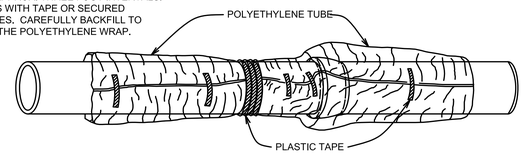


STEP-1
CLEAN SURFACE OF PIPE. CUT POLYETHYLENE TWO FEET LONGER THAN THE PIPE (8 MIL MIN.). PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH. DIG BELL HOLES AT JOINTS, LOWER PIPE.

STEP-2
LIFT ENOUGH TO PULL THE TUBE OVER THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.

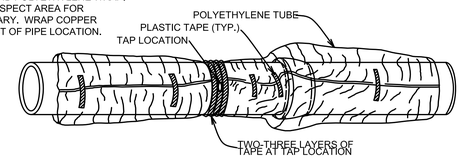


STEP-3
ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROX. THREE FOOT INTERVALS. REPAIR ANY TEARS WITH TAPE OR SECURED POLYWRAP PATCHES. CAREFULLY BACKFILL TO AVOID DAMAGING THE POLYETHYLENE WRAP.



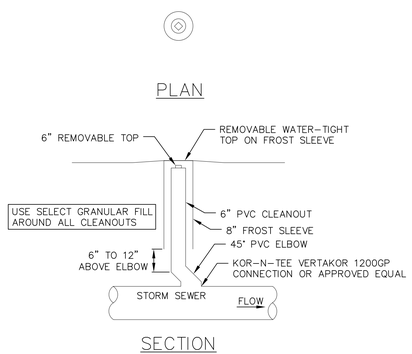
TAPPING POLYETHYLENE WRAP

STEP-1
WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND PIPE WHERE TAPPING MACHINE WILL BE PLACED. MOUNT TAPPING MACHINE ON TAPED AREA AND TAP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE WRAP. INSTALL CORPORATION STOP. INSPECT AREA FOR DAMAGE AND REPAIR IF NECESSARY. WRAP COPPER SERVICE LINE WITHIN THREE FEET OF PIPE LOCATION.



CITY OF MADISON WATER UTILITY	NOT TO SCALE	FIELD INSTALLATION POLYETHYLENE WRAP / TAPPING POLYETHYLENE WRAP

City of Madison Standard Specifications for Public Works Construction

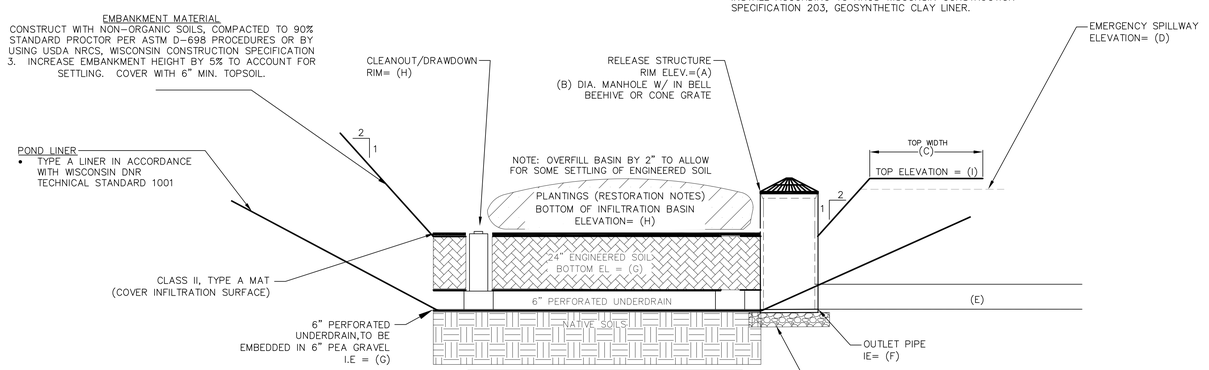


1 / 403 STORM SEWER CLEANOUT
NOT TO SCALE

POND LINER SPECIFICATIONS:

HDPE LINER CRITERIA:
MINIMUM THICKNESS SHALL BE 60 MILS.
DESIGN ACCORDING TO THE CRITERIA IN TABLE 3 OF NRCS 313, WASTE STORAGE FACILITY TECHNICAL STANDARD.
INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING.

GEOSYNTHETIC CLAY LINER CRITERIA:
DESIGN ACCORDING TO THE CRITERIA IN TABLE 4 OF NRCS 313, WASTER STORAGE FACILITY TECHNICAL STANDARD.
INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 203, GEOSYNTHETIC CLAY LINER.



BIO-RETENTION BASIN DETAILS

	BASIN #1	BASIN #2
A	851.10'	849.75'
B	24"	48"
C	N/A	2'
D	851.50'	850.30'
E	8" HDPP	18" RCP
F	848.13'	846.60'
G	848.30'	847.30'
H	850.30'	849.30'
I	N/A	850.80'

ENGINEERED SOIL MIXTURE
70%-85% WASHED SAND
15%-30% COMPOST (MUST MEET WDNR S100 SPECIFICATION)

2 / 403 BIO-RETENTION CROSS-SECTION
NOT TO SCALE

BIO-RETENTION AREA RESTORATION SPECIFICATIONS:
NOTE: BIO-RETENTION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

BIO-RETENTION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1004 (BIORETENTION FOR INFILTRATION)

USE RAINWATER GARDEN LIVE NATIVE PLANT PLUGS FROM AGRECOL (SUNNY, SHORT, OR MEDIUM STATURE) – OR ENGINEER APPROVED EQUAL.

PLANT PLUGS AT 1 PER SQUARE FOOT.

INFILTRATION AREA RESTORATION SPECIFICATIONS:
NOTE: INFILTRATION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

INFILTRATION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1003 (INFILTRATION BASIN)

PLANTING, MULCH, AND MAINTENANCE NOTES:
NATIVE (PRAIRIE) SEEDING SHALL BE COMPLETED IN THE FALL (AS DORMANT SEEDING PRIOR TO FIRST SNOWFALL) OR IN THE SPRING (BETWEEN MAY 1 AND JUNE 20), OR PLUGS SHALL BE USED.

MULCH SHALL CONFORM TO THE CRITERIA LOCATED IN WDNR CONSERVATION PRACTICE STANDARD MULCHING FOR CONSTRUCTION SITES (1058).

HEAVILY WATER AREA AT THE TIME OF SEEDING, AND EVERY OTHER DAY FOR A TOTAL OF 4 WATERINGS. A RAIN EVENT GREATER THAN 0.5 INCHES CONSTITUTES A WATERING.

MAINTENANCE OF NATIVE VEGETATION (MOWING, CUTTING OR BURNING SHALL BE USED TO MAINTAIN VEGETATION:
1. ESTABLISHMENT– THE FIRST MORING OF NEWLY PLANTED SEED SHALL OCCUR ONCE IT REACHES A HEIGHT OF 10 TO 12 INCHES.
2. MOWING–MOWING SHALL REDUCE THE HEIGHT OF PLANTS TO 5 TO 6 INCHES. IF AFTER ESTABLISHMENT, IF BURNING CANNOT BE ACCOMMODATED, MOWING SHALL OCCUR ONCE IN THE FALL AFTER NOVEMBER 1). THE AREA SHALL BE MOWED TO A HEIGHT OF 5 TO 6 INCHES.
3. BURNING
A. ROUTINE MAINTENANCE – BEGINNING THE SECOND YEAR, BURNING SHALL OCCUR IN THE EARLY SPRING (PRIOR TO MAY 1ST) OR IN THE LATE FALL (AFTER NOVEMBER 1ST)
B. BURNING SHALL BE DONE TWO CONSECUTIVE YEARTS AND THEN UP TO THREE YEARS CAN PASS BEFORE THE NEXT BURNING.
C. UNDER NO CIRCUMSTANCES SHALL BURNING OCCUR EVERY OTHER YEAR

RESTORATION OF THE INFILTRATION AREA (NOT INCLUDING SIDE SLOPES):
1. OVER-EXCAVATE THE AREA TO INFILTRATIVE LAYER TO BE DETERMINED IN THE FIELD, DURING EXCAVATION, BY DESIGN ENGINEER.
2. CHISEL PLOW, OR ROTO-TILL THE BASE OF THE AREA TO BREAK UP ANY HARDPAN IN THE NATIVE SOIL LAYER.
3. SEED, MULCH, WATER, AND MAINTAIN AS DIRECTED ABOVE.

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Ken Saiki Design
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Structural Engineering,
Fire Protection Engineering, Technology and AV
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Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1600 Stout St, Suite 450
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Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature _____
Print Name _____
Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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CONSTRUCTION DETAILS - 3

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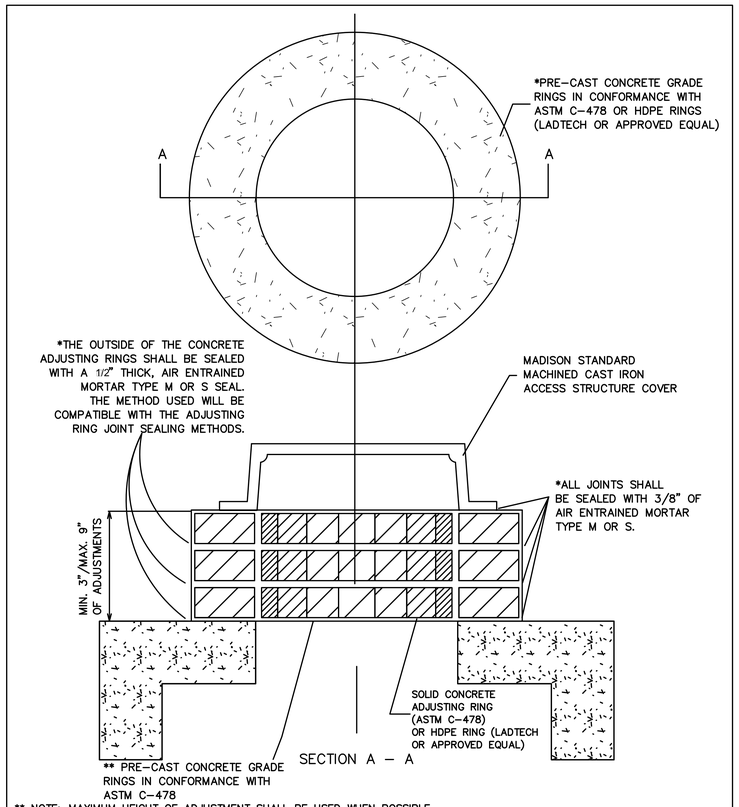


** NOTE: MAXIMUM HEIGHT OF ADJUSTMENT SHALL BE USED WHEN POSSIBLE.
HDPE ADJUSTMENT RINGS (LADTECH OR APPROVED EQUAL) MEETING AASHTO HS25 SPECS, ASTM D-1248 INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WILL BE CONSIDERED AN ACCEPTABLE ALTERNATE TO PRECAST RINGS.
IF PRO-RINGS ARE INSTALLED FOR THE WHOLE ADJUSTMENT, CONTRACTOR WILL BE PAID FOR AN INTERNAL CHIMNEY SEAL.
PRO-RING ADJUSTMENT IS CONSIDERED TO BE EQUIVALENT OF AN INTERNAL CHIMNEY SEAL. PRO-RING SHALL HAVE M-1 ADHESIVE BETWEEN RINGS. CRETEX PRO RING WILL BE CONSIDERED AN ACCEPTED ALTERNATE FOR PRECAST RINGS.
RING JOINT SEALANT SHALL BE ASTM C990 AND AASHTO M-198 (TROWLABLE EZ-STICK #3 OR EQUAL)

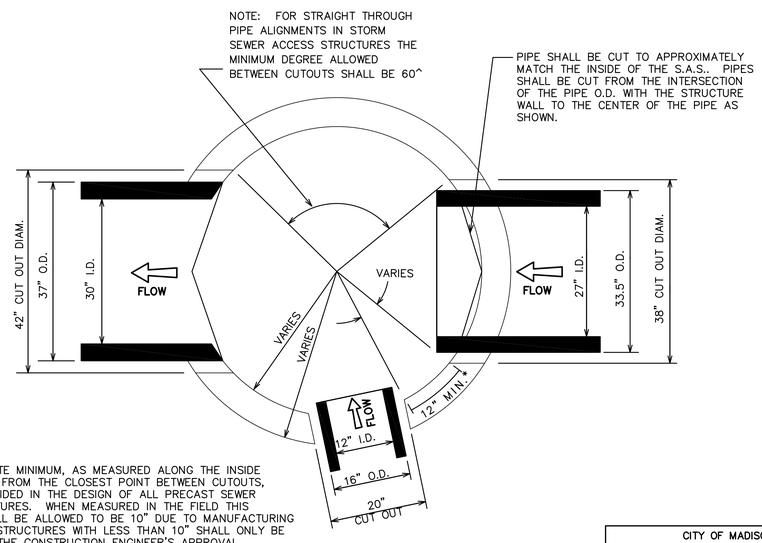
2017

CITY OF MADISON
ENGINEERING DIVISION

SAS CHIMNEY AND CASTING

STANDARD DETAIL DRAWING 5.7.15

NOTE: ALL STORM SEWER ACCESS STRUCTURES (S.A.S.) SHALL BE CONSTRUCTED IN COMPLIANCE WITH ASTM C478



* 12" OF CONCRETE MINIMUM, AS MEASURED ALONG THE INSIDE WALL RADIALLY FROM THE CLOSEST POINT BETWEEN CUTOUTS, SHALL BE PROVIDED IN THE DESIGN OF ALL PRECAST SEWER ACCESS STRUCTURES. WHEN MEASURED IN THE FIELD THIS DIMENSION SHALL BE ALLOWED TO BE 10" DUE TO MANUFACTURING TOLERANCES. STRUCTURES WITH LESS THAN 10" SHALL ONLY BE ALLOWED WITH THE CONSTRUCTION ENGINEER'S APPROVAL.

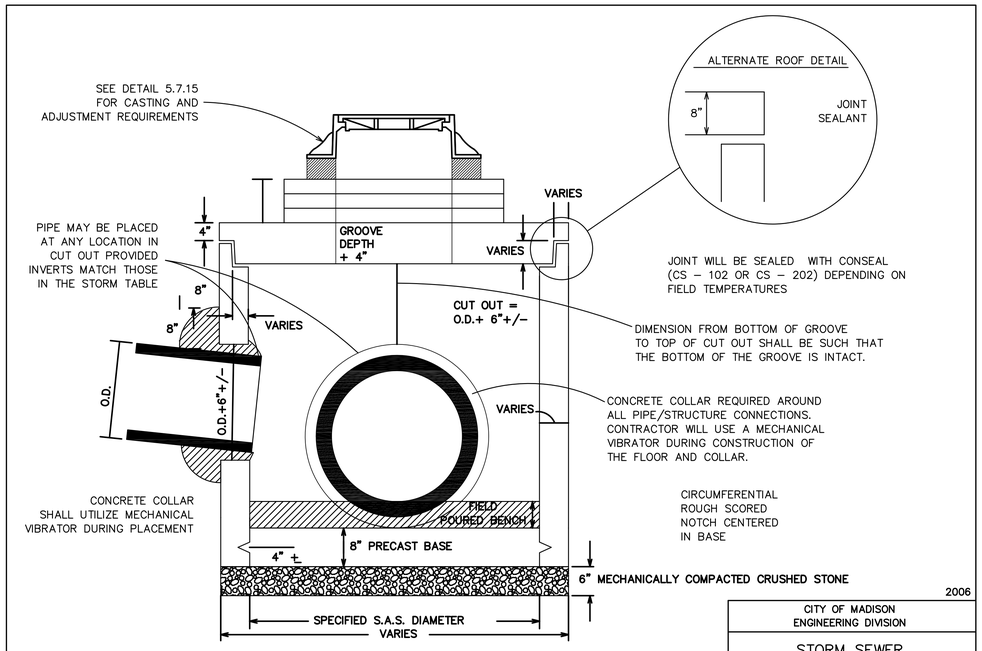
** NOTE: PIPES SHOWN IN VARIOUS CONSTRUCTION STAGES FOR ILLUSTRATIVE PURPOSES.

2004

CITY OF MADISON
ENGINEERING DIVISION

STORM SEWER PRECAST SAS (TOP VIEW)

STANDARD DETAIL DRAWING 5.7.6



2006

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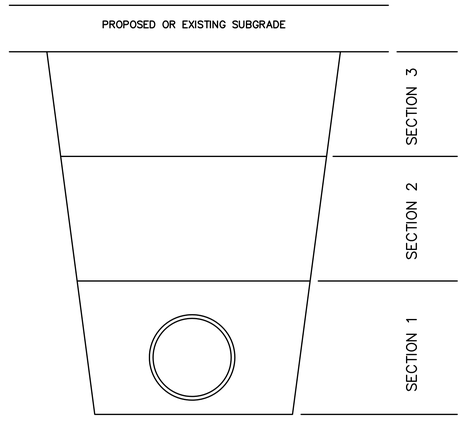
ENGINEERING DIVISION

STORM SEWER PRECAST SAS (THROUGH SECTION VIEW)

STANDARD DETAIL DRAWING 5.7.5



TYPICAL TRENCH COMPACTION

ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

IN COLD WEATHER, TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 502.1 (e), BACKFILLING EXCAVATIONS AND COMPACTION OF BACKFILL, OF THESE SPECIFICATIONS.

SECTION 1:

MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR. FOR ALL PLASTIC PIPE SECTION 1 SHALL BE INSTALLED IN ACCORDANCE WITH S.D.D. 5.2.1A

SECTION 2:

MINIMUM COMPACTION OF 90% MAXIMUM DENSITY. COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO FEET ABOVE THE TOP OF PIPE.

SECTION 3:

MINIMUM COMPACTION OF 95% MAXIMUM DENSITY.

2011

CITY OF MADISON
ENGINEERING DIVISION

TYPICAL TRENCH COMPACTION

STANDARD DETAIL DRAWING 5.2.2

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Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature _____

Print Name _____

Date _____ License No _____

BID DOCUMENTS

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CONSTRUCTION DETAILS - 4

C404

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MADISON PUBLIC MARKET

MADISON, WI

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS,
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2",
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED, UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS;
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm),
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT

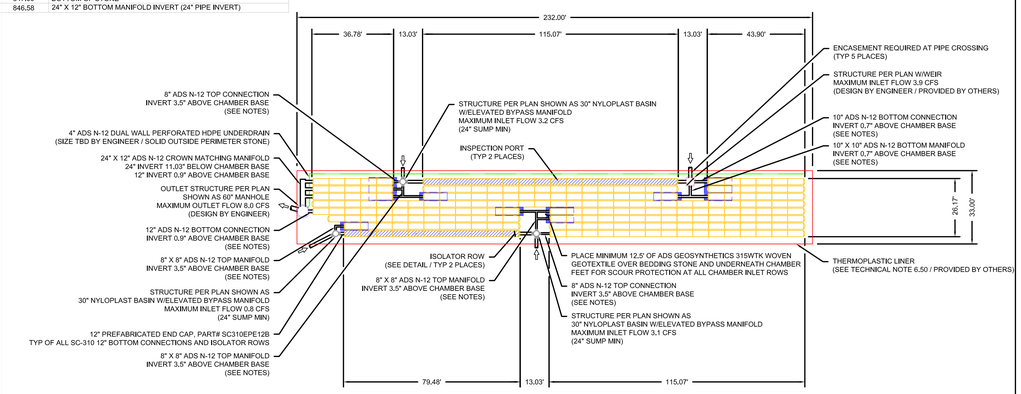
223	STORMTECH SC-310 CHAMBERS
36	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
9120	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
7656	SYSTEM AREA (ft²)
530	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

856.83	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
850.83	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
850.33	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
850.33	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
850.33	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
849.33	TOP OF STONE
848.63	TOP OF SC-310 CHAMBER
847.79	8" TOP MANIFOLD INVERT
847.58	12" ISOLATOR ROW CONNECTION INVERT
847.58	24" X 12" BOTTOM MANIFOLD (12" INVERT)
847.56	10" BOTTOM MANIFOLD INVERT
847.50	BOTTOM OF SC-310 CHAMBER
847.00	UNDERDRAIN INVERT
847.00	BOTTOM OF STONE
846.58	24" X 12" BOTTOM MANIFOLD INVERT (24" PIPE INVERT)

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

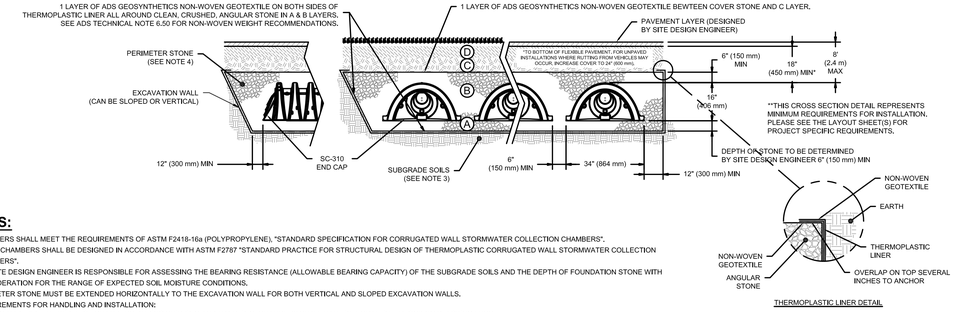


NOTE:
DETENTION SYSTEM DETAILS SHALL SERVE AS THE BASIS OF DESIGN.
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER AND
CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS,
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2",
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION. a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

THERMOPLASTIC LINER DETAIL

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Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 2019006.00

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

Signature _____

Print Name _____

Date _____ **License No** _____

BID DOCUMENTS

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C405

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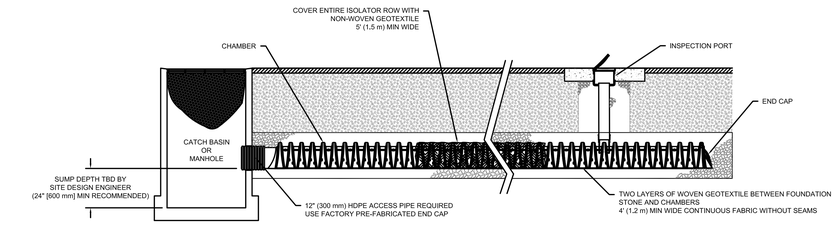
ARCH CHAMBER STORMWATER DETENTION SYSTEM



ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

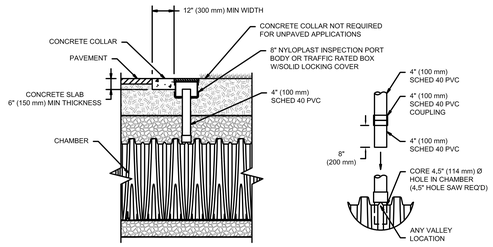
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

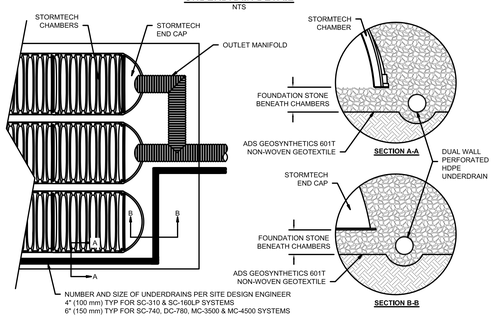


NOTES:
1. INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED (4" PVC).

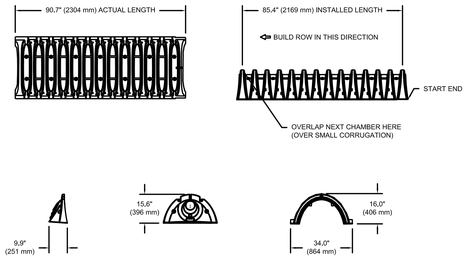
4" PVC INSPECTION PORT DETAIL
NTS

CONNECTION DETAIL
NTS

UNDERDRAIN DETAIL
NTS



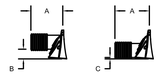
TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



	STUB	A	B	C
	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
			---	0.5" (13 mm)
	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
			---	0.6" (15 mm)
	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
			---	0.7" (18 mm)
	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

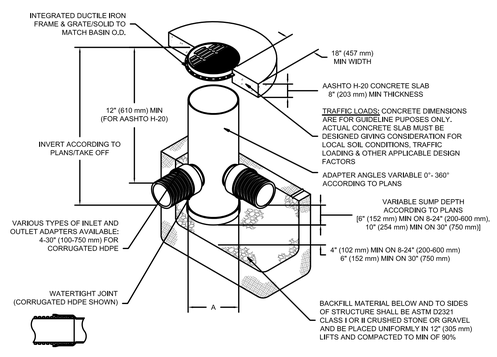
ALL STUBS, EXCEPT FOR THE 12" ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP.

* FOR THE 12" (300 mm), STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm), BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

NOTE:
DETENTION SYSTEM DETAILS SHALL SERVE AS THE BASIS OF DESIGN.
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER AND
CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NYLOPLAST DRAIN BASIN
NTS



NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

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Project No: 2019006.00

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Architect Seal

WISCONSIN
SARAH CHURCH
E-39369
MADISON, WI
PROFESSIONAL ENGINEER

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Print Name _____
Date _____ License No _____

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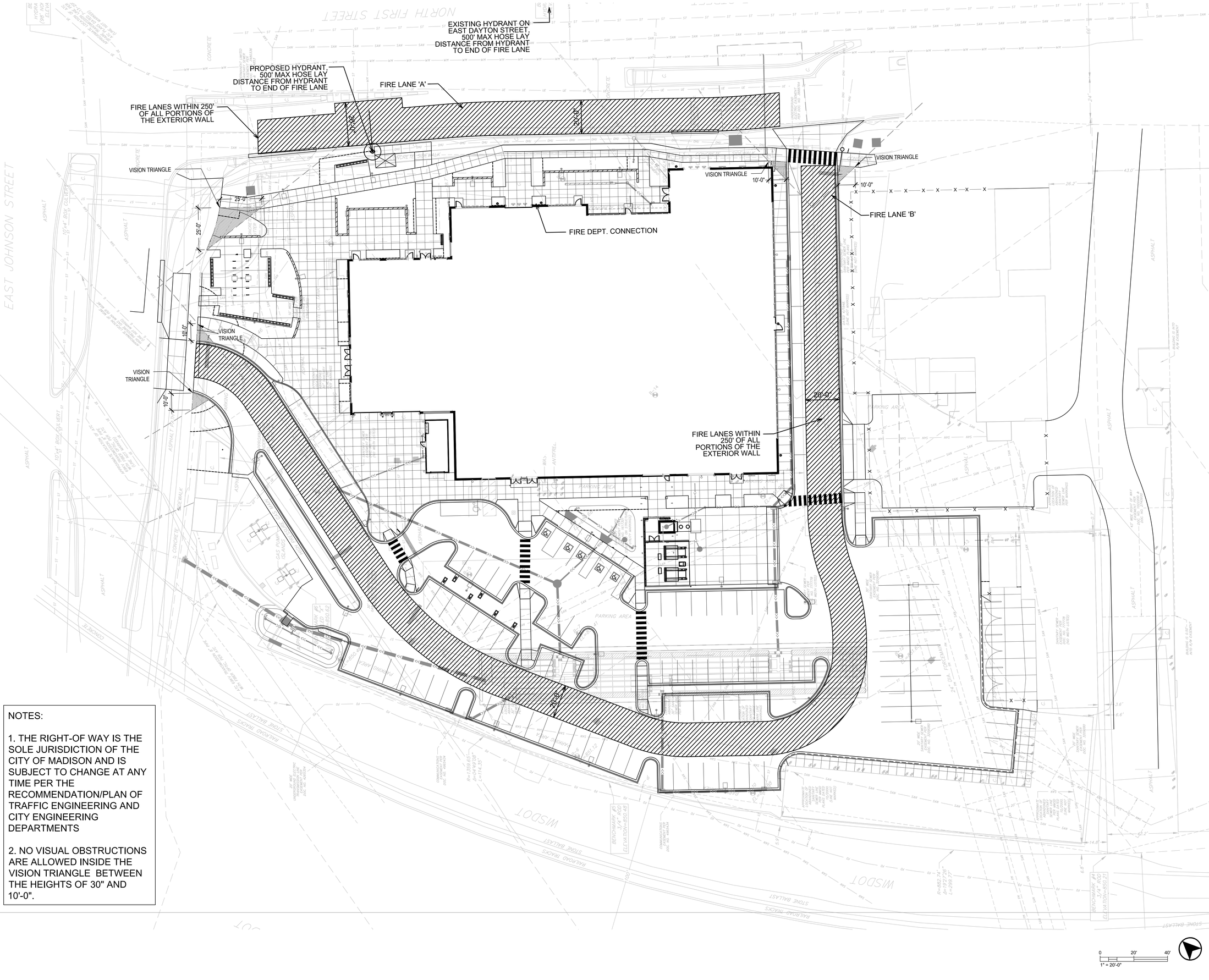
CONSTRUCTION DETAILS - 6

C406



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Architect Seal

WISCONSIN
DAVID KEN SAIKI
LA-76
MADISON
WI
LANDSCAPE ARCHITECT

Signature _____

Print Name _____

Date _____ **License No** _____

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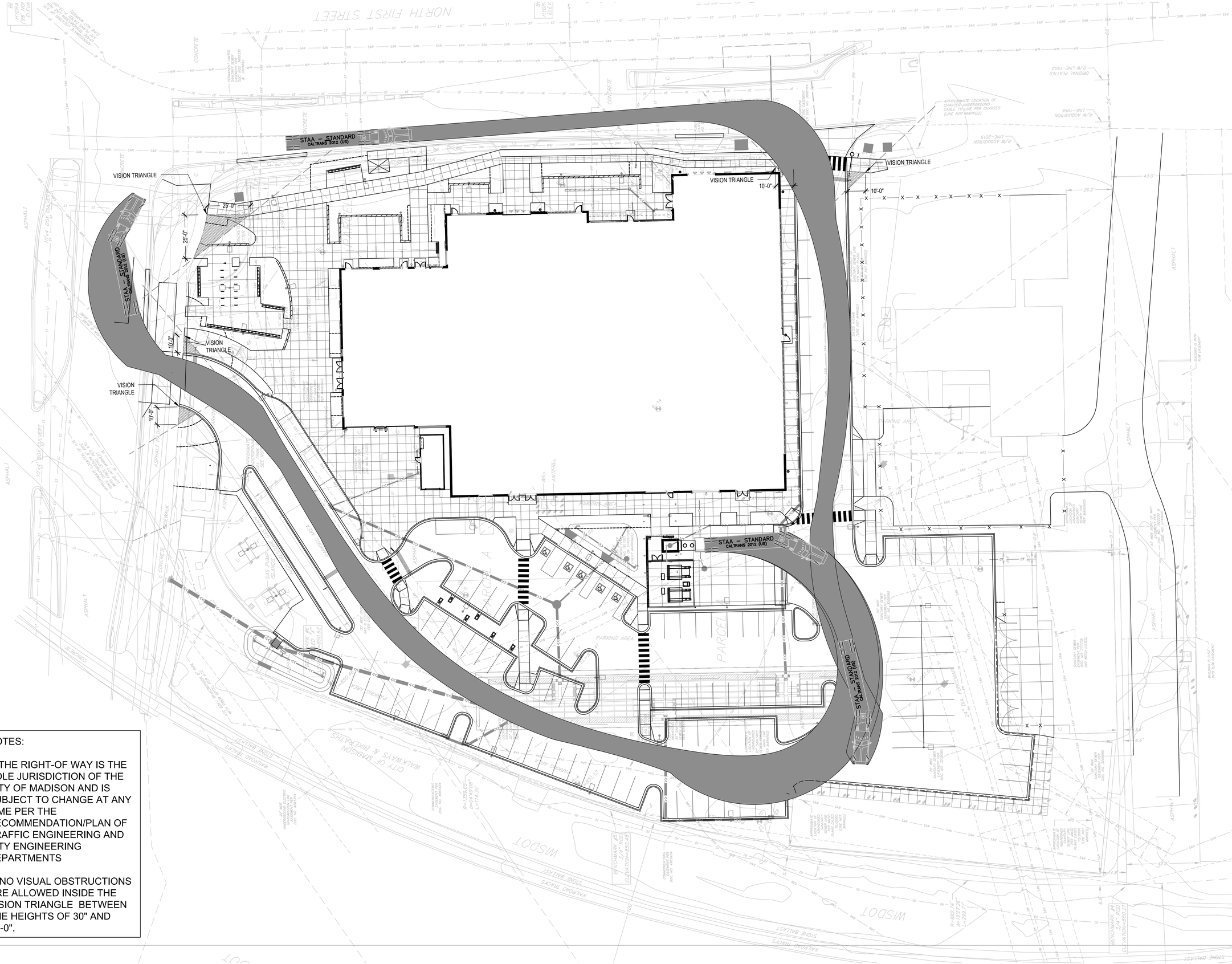
FIRE ACCESS

L001



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Project No: 20190606.00

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Architect Seal

WISCONSIN
DAVID KEN SAIKI
LA-75
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SEMI TRAILER TURNING TEMPLATE AND VISION TRIANGLES

L002

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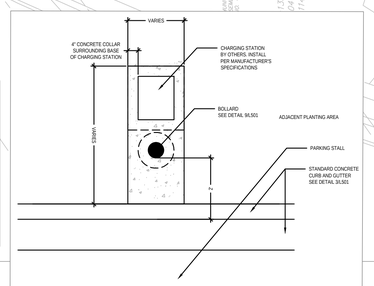
PARKING SUMMARY:

TOTAL VEHICLE STALLS: 106
ADA STALLS: 6
ELECTRIC VEHICLE STALLS: 4

TOTAL BICYCLE STALLS: 81



EV CHARGING STATION ENLARGEMENT

0 20' 40'
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WISCONSIN
DAVID KEN SAIKI
LA-76
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Print Name

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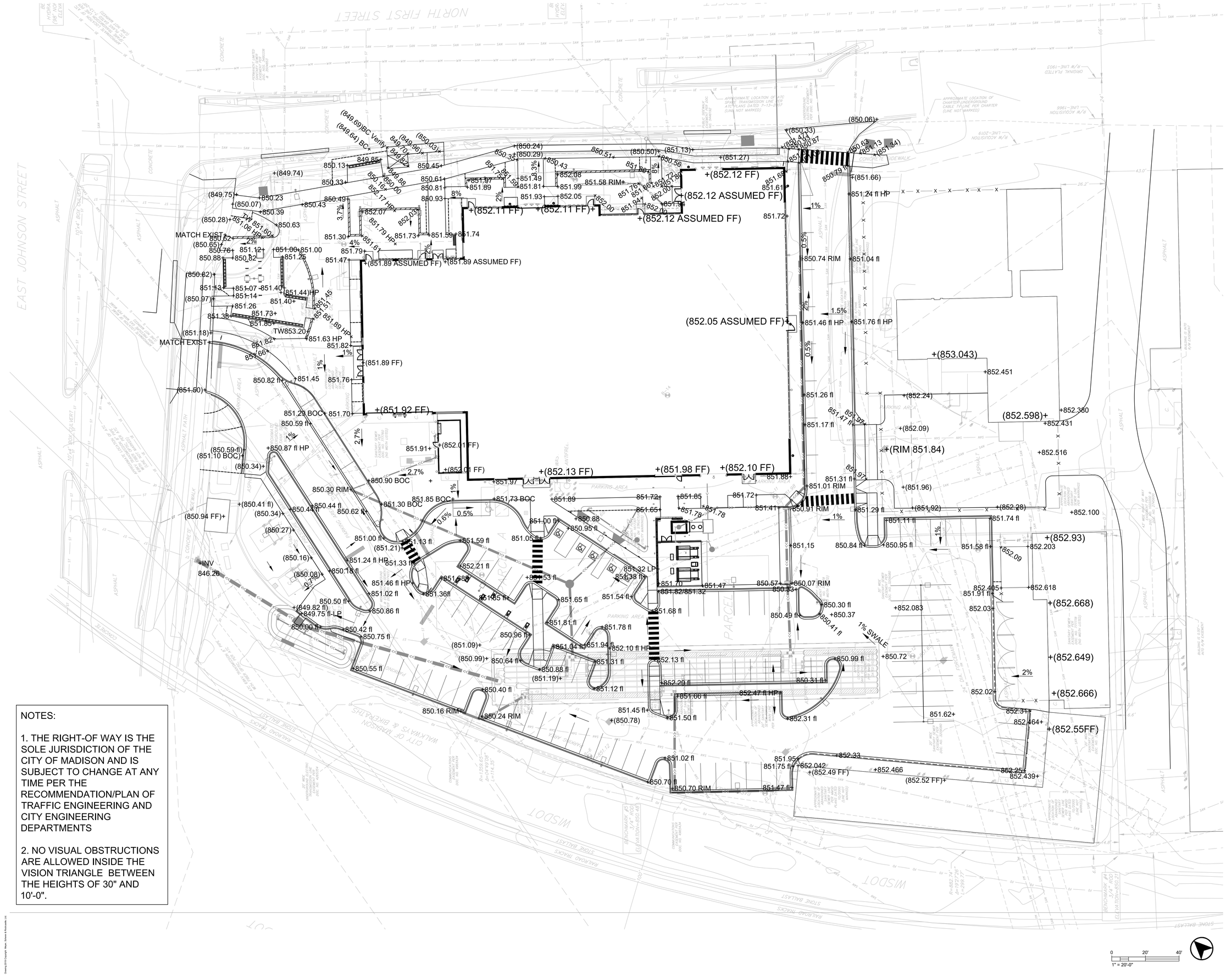
LAYOUT PLAN

L100



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DAVID KEN SAIKI
LA-76
MADISON
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LANDSCAPE ARCHITECT

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Date _____ License No _____

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GRADING PLAN

L200

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LANDSCAPE ARCHITECT

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GRADING PLAN

L200

LEGEND

- SHORTGRASS PRAIRIE (SEED)
- SEASONAL ARRANGEMENTS
- BIORETENTION BASIN (PLUGS)
- LAWN (SEED)
- STONE COBBLES

VISION TRIANGLE
25'-0"
10'-0"
SEE ENLARGEMENT SHEET L310
SEE ENLARGEMENT SHEET L311
SEE ENLARGEMENT SHEET L313
SEE ENLARGEMENT SHEET L312
EXISTING VEGETATION TO REMAIN

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2. NO VISUAL OBSTRUCTIONS ARE ALLOWED INSIDE THE VISION TRIANGLE BETWEEN THE HEIGHTS OF 30" AND 10'-0".

3. CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING

0 20' 40'
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NORTH

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DAVID KEN SAIKI
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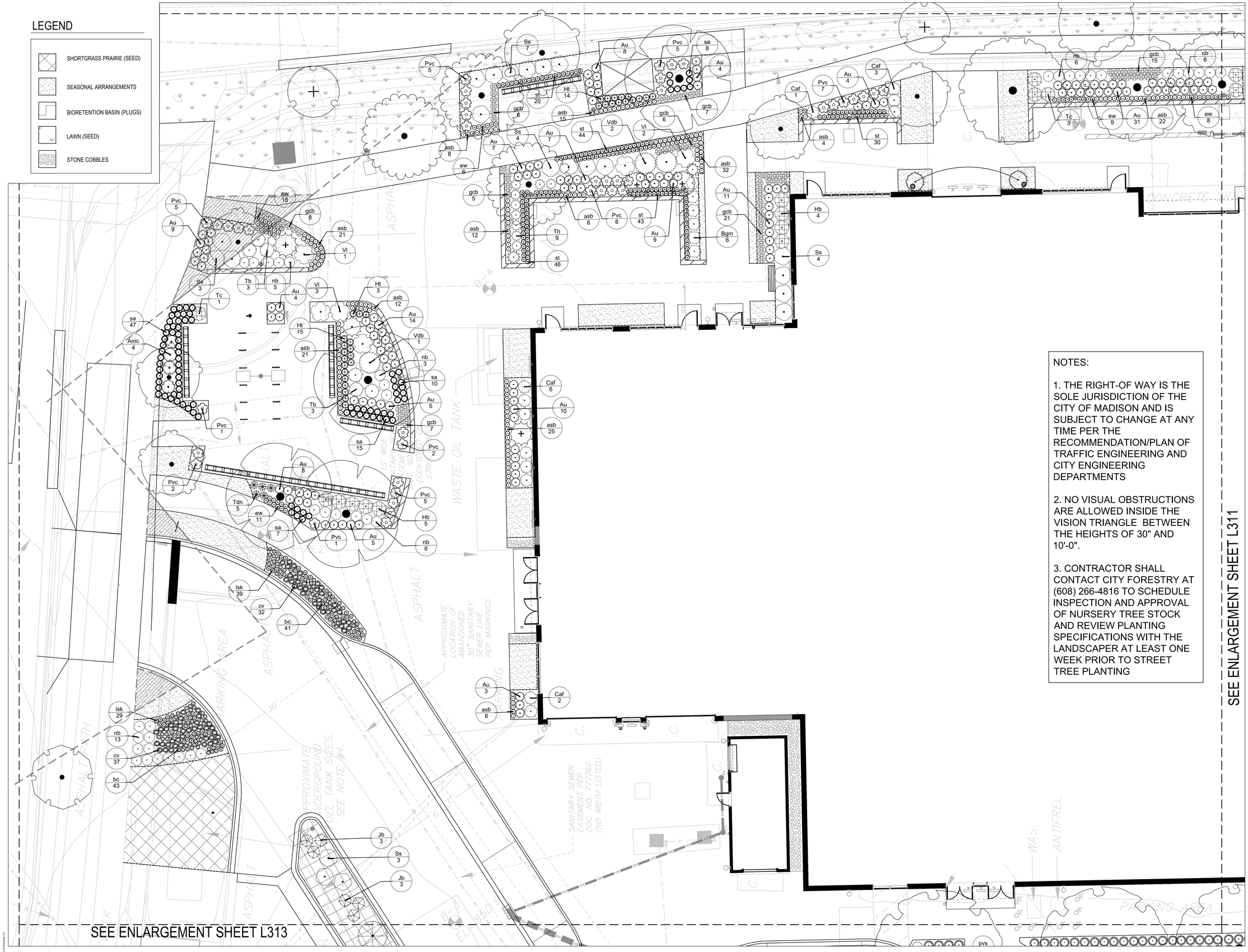
TREE PLANTING PLAN

L300

LEGEND

- SHORTGRASS PRAIRIE (SEED)
- SEASONAL ARRANGEMENTS
- BIORETENTION BASIN (PLUGS)
- LAWN (SEED)
- STONE COBBLES



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WISCONSIN
DAVID KEN SAIKI
LA-76
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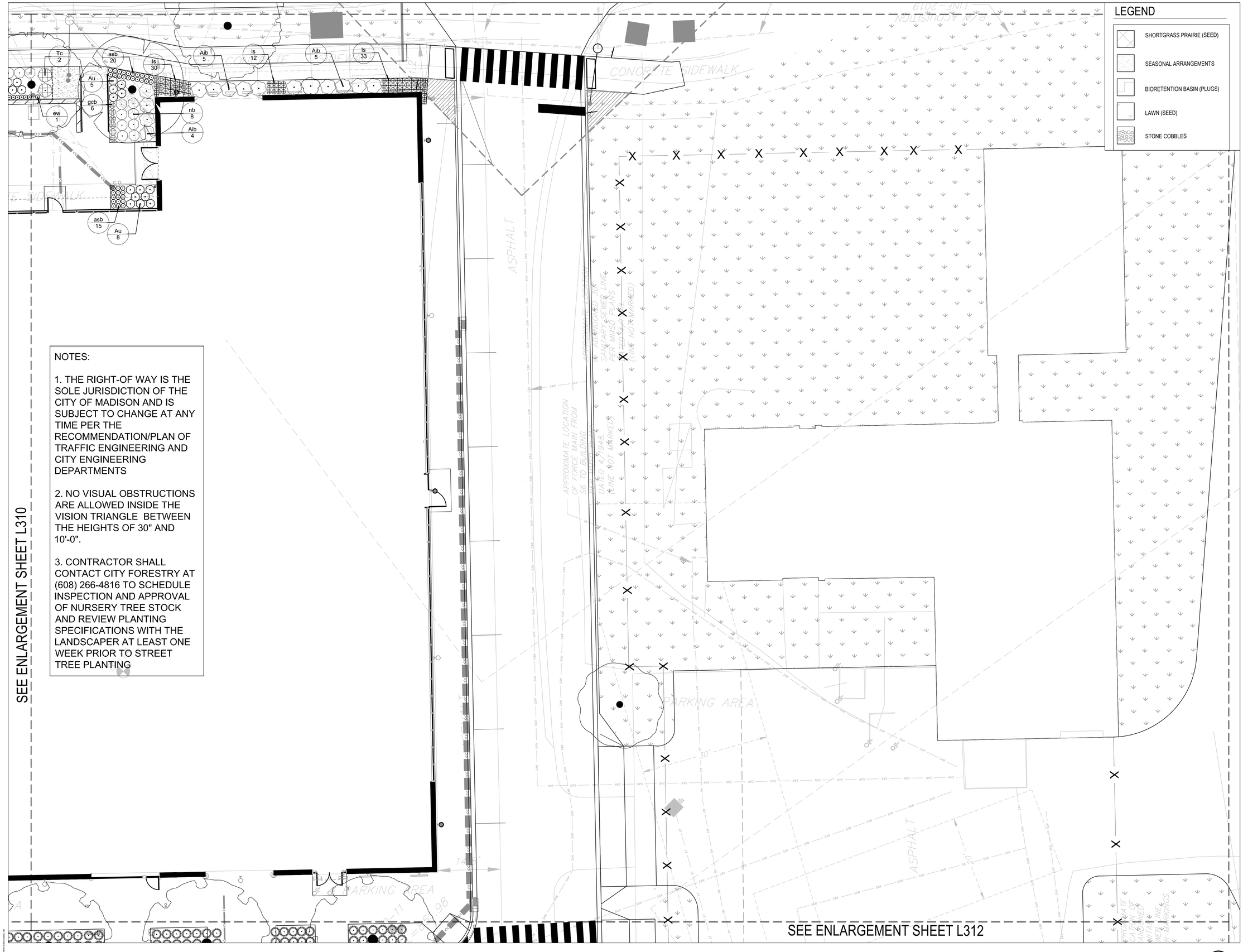
DETAIL PLANTING PLAN

L310



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WISCONSIN
DAVID KEN SAIKI
LA-76
MADISON WI
LANDSCAPE ARCHITECT

Signature _____

Print Name _____

Date _____ **License No** _____

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DETAIL PLANTING PLAN

L311

SEE ENLARGEMENT SHEET L311

SEE ENLARGEMENT SHEET L313

LEGEND

- SHORTGRASS PRAIRIE (SEED)
- SEASONAL ARRANGEMENTS
- BIORETENTION BASIN (PLUGS)
- LAWN (SEED)
- STONE COBBLES

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3. CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING

0 8' 16'
1/8" = 1-0"
NORTH

Architecture and Interiors
MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer
Salas O'Brien
Salas O'Brien
2901 Metro Drive, Suite 225
Bloomington, MN 55425 | 651.379.9121

Civil Engineer
Vierbicher
999 Fourier Dr, Suite 201,
Madison, WI 53717 | 608. 826. 0532

Landscape Architect
Ken Saiki Design
1110 S. Park St.
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Structural Engineering,
Fire Protection Engineering, Technology and AV
IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1999 Broadway, Suite 2205
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 2019008.00

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAVID KEN SAIKI LA-76 MADISON WI
LANDSCAPE ARCHITECT

Signature _____

Print Name _____

Date _____ License No _____

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ISSUE / REVISION

Mark	Date	Description
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DETAIL PLANTING PLAN

L312

SEE ENLARGEMENT SHEET L310

SEE ENLARGEMENT SHEET L312

NOTES:

1. THE RIGHT-OF WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENTS

2. NO VISUAL OBSTRUCTIONS ARE ALLOWED INSIDE THE VISION TRIANGLE BETWEEN THE HEIGHTS OF 30" AND 10'-0".

3. CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING

LEGEND

- SHORTGRASS PRAIRIE (SEED)
- SEASONAL ARRANGEMENTS
- BIORETENTION BASIN (PLUGS)
- LAWN (SEED)
- STONE COBBLES

0 8' 16'
1/8" = 1-0"

NORTH

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Project No: 2019006.00

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAVID KEN SAIKI
LA-75
MADISON
WI
LANDSCAPE ARCHITECT

Signature _____

Print Name _____

Date _____ **License No** _____

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ISSUE / REVISION

Mark	Date	Description
	2023.06.09	BID DOCUMENTS

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DETAIL PLANTING PLAN

L313

L300 TREE SCHEDULE

EVERGREEN TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	LL	Larix laricina / Tamarack	15 gal		3
	PA	Picea abies `Sherwood Compact` / Norway Spruce	15 gal		6
	PG	Picea glauca `Yukon Blue` / Yukon Blue Spruce	15 gal		1
	PO	Picea omorika `De Ruyter` / De Ruyter Serbian Spruce	15 gal		2
	PL	Pinus leucodermis `Gnome` / Gnome Dwarf Bosnian Pine	15 gal		2

ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	AS	Amelanchier alnifolia `Standing Ovation` TM / Serviceberry	15 gal	2" CAL, 8` MIN HT.	1
	CCJ	Carpinus caroliniana `J.N. Upright` / Firespire Musclewood	15 gal	2" CAL, 8` MIN HT.	2

SHADE TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	AFE	Acer x freemanii `Ed Gartner` / Redhead Freeman Maple	B & B	2 1/2-3" CAL, 14" MIN HT.	5
	BN	Betula nigra `Heritage` / Heritage River Birch	15 gal		5
	COC	Celtis occidentalis `Chicagoland` / Common Hackberry	B & B	2 1/2-3" CAL, 14" MIN HT.	2
	GM	Ginkgo biloba `Magyar` / Magyar Ginkgo	B & B	2 1/2-3" CAL, 14" MIN HT.	7
	GP	Ginkgo biloba `Princeton Sentry` / Princeton Sentry Gingko	B & B	2"Cal	3
	GTD	Gleditsia triacanthos `Draves` TM / Street Keeper Honey Locust	B & B	2"Cal	1
	GI	Gleditsia triacanthos `Impcole` TM / Imperial Honeylocust	B & B	2 1/2-3" CAL, 14" MIN HT.	6
	GD	Gymnocladus dioica `Espresso` / Espresso Kentucky Coffeetree	B & B	3"Cal	7
	QSC	Quercus x schuetti / Swamp Bur Oak	B & B	2 1/2-3" CAL, 14" MIN HT.	2
	QW	Quercus x warei `Long` TM / Regal Prince Oak	B & B	2 1/2-3" CAL, 14" MIN HT.	5
	TS	Tilia americana `Sentry` / American Linden	B & B	2"Cal	2
	UMG	Ulmus x `Morton Glossy` TM / Triumph Elm	B & B	2 1/2-3" CAL, 14" MIN HT.	6

L310 SHRUB, PERENNIAL AND GRASSES SCHEDULE

DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Amc	Aronia melanocarpa `Low Scape Hedger` / Low Scape Hedger Chokeberry	3 gal	4
	Au	Aronia melanocarpa `UCONNAM165` / Lowscape Mound Chokeberry	3 gal	139
	Caf	Cornus stolonifera `Arctic Fire` / Arctic Fire Dogwood	5 gal	12
	Hb	Hydrangea paniculata `Bobo` / Bobo Hydrangea	5 gal	9
	Ht	Hydrangea serrata `Tiny Tuff Stuff` / Tiny Tuff Stuff Hydrangea	3 gal	32
	Ss	Sorbaria sorbifolia `Sem` / Sem Ash Leaf Spirea	5 gal	21
	Vdb	Viburnum dentatum `Blue Muffin` / Southern Arrowwood	5 gal	3
	Vl	Viburnum dentatum `KLMseventeen` TM / Little Joe	5 gal	6

EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Bgm	Buxus x `Green Mound` / Green Mound Boxwood	5 gal	6
	Jb	Juniperus Scopulorum `Blue Arrow` / Blue Arrow Juniper	5 gal	6
	Pvc	Pinus mugo `Valley Cushion` / Valley Cushion Mugo Pine	3 gal	41
	Tb	Thuja occidentalis `Bobazam` / Mr. Bowling Ball Arborvitae	5 gal	6
	Tc	Thuja occidentalis `Congabe` / Fire Chief Arborvitae	5 gal	4
	Tdn	Thuja occidentalis `Danica` TM / Danica Globe Cedar	3 gal	5
	Th	Thuja occidentalis `Hetz Midget` / Hetz Midget Arborvitae	3 gal	9

HERBACEOUS PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	
	asb	Allium tanguticum `Summer Beauty` / Summer Beauty Allium	1 gal	184
	ew	Echinacea purpurea `PAS702917` TM / PowWow Wild Berry Coneflower	1 gal	52
	gcb	Geranium x cantabrigiense `Biokovo` / Biokovo Cranesbill	1 gal	75
	lsk	Liatris spicata `Kobold` / Kobold Spike Gayfeather	1 gal	68
	nb	Nepeta x faassenii `Blue Wonder` / Catmint	1 gal	39
	st	Sedum x `Thundercloud` / Thundercloud Sedum	1 gal	183

ORNAMENTAL GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	
	bc	Bouteloua curtipendula / Side Oats Grama	1 gal	84
	cv	Carex vulpinoidea / Brown Fox Sedge	1 gal	69
	sa	Sesleria autumnalis / Autumn Moor Grass	1 gal	87

L311 SHRUB, PERENNIAL AND GRASSES SCHEDULE

DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Aib	Aronia melanocarpa `Morton` / Iroquois Beauty Black Chokeberry	3 gal	14
	Au	Aronia melanocarpa `UCONNAM165` / Lowscape Mound Chokeberry	3 gal	13

EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Tc	Thuja occidentalis `Congabe` / Fire Chief Arborvitae	5 gal	2

HERBACEOUS PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	
	asb	Allium tanguticum `Summer Beauty` / Summer Beauty Allium	1 gal	35
	ew	Echinacea purpurea `PAS702917` TM / PowWow Wild Berry Coneflower	1 gal	1
	gcb	Geranium x cantabrigiense `Biokovo` / Biokovo Cranesbill	1 gal	6
	ls	Liriope muscari `Silvery Sunproof` / Silvery Sunproof Blue Lilyturf	1 gal	75
	nb	Nepeta x faassenii `Blue Wonder` / Catmint	1 gal	8

L312 SHRUB, PERENNIAL AND GRASSES SCHEDULE

DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Cr	Cephalanthus occidentalis `Bailoptics` TM / Fiber Optics Buttonbush	5 gal	1
	Ss	Sorbaria sorbifolia `Sem` / Sem Ash Leaf Spirea	5 gal	8

HERBACEOUS PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	
	eb	Eupatorium dubium `Baby Joe` / Dwarf Joe-Pye Weed	1 gal	10

ORNAMENTAL GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	
	pvs	Panicum virgatum `Shenendoah` / Shenendoah Switch Grass	1 gal	72

L313 SHRUB, PERENNIAL AND GRASSES SCHEDULE

DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Am	Aronia melanocarpa `Morton` TM / Iroquis Beauty Black Chokeberry	5 gal	1
	Au	Aronia melanocarpa `UCONNAM165` / Lowscape Mound Chokeberry	3 gal	4
	Cr	Cephalanthus occidentalis `Bailoptics` TM / Fiber Optics Buttonbush	5 gal	2
	Ss	Sorbaria sorbifolia `Sem` / Sem Ash Leaf Spirea	5 gal	30

EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	
	Jm	Juniperus chinensis `Mountbatten` / Chinese Juniper	5 gal	3
	Jb	Juniperus Scopulorum `Blue Arrow` / Blue Arrow Juniper	5 gal	18
	Psm	Pinus mugo `Slowmound` / Mugo Pine	5 gal	1

HERBACEOUS PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	
	asb	Allium tanguticum `Summer Beauty` / Summer Beauty Allium	1 gal	18
	eb	Eupatorium dubium `Baby Joe` / Dwarf Joe-Pye Weed	1 gal	7
	nb	Nepeta x faassenii `Blue Wonder` / Catmint	1 gal	2

ORNAMENTAL GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	
	pvs	Panicum virgatum `Shenendoah` / Shenendoah Switch Grass	1 gal	65

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MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAVID KEN SAIKI
LA-75
MADISON
WI
LANDSCAPE ARCHITECT

Signature _____
Print Name _____
Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
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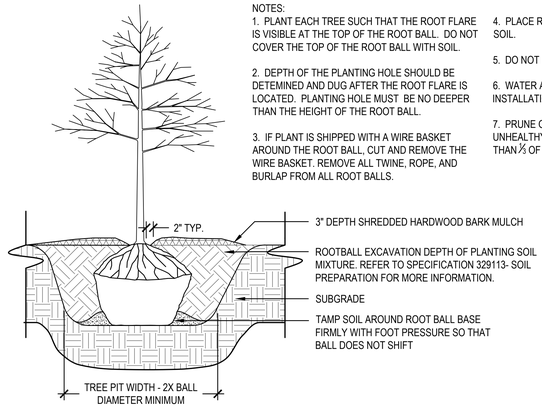
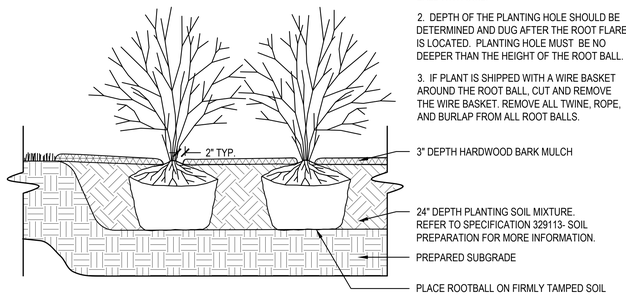
PLANT LISTS

L314



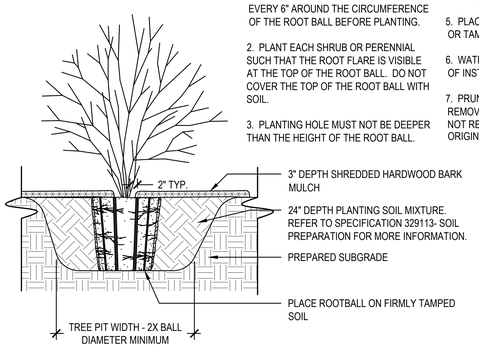
NOTES:
1. PLANT EACH TREE SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. DEPTH OF THE PLANTING HOLE SHOULD BE DETEMINED AND DUG AFTER THE ROOT FLARE IS LOCATED. PLANTING HOLE MUST BE NO DEEPER THAN THE HEIGHT OF THE ROOT BALL.
3. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT AND REMOVE THE WIRE BASKET. REMOVE ALL TWINE, ROPE, AND BURLAP FROM ALL ROOT BALLS.
4. PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.
5. DO NOT PLACE MULCH IN CONTACT WITH STEMS.
6. WATER ALL PLANTS WITHIN 2 HOURS OF INSTALLATION.
7. PRUNE ONLY AS NECESSARY TO REMOVE UNHEALTHY BRANCHES. DO NOT REMOVE MORE THAN ⅓ OF THE ORIGINAL PLANT MASS.

1 BALL AND BURLAP TREE PLANTING
SCALE: NOT TO SCALE



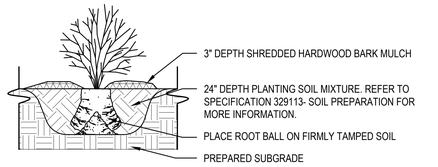
NOTES:
1. PLANT EACH SHRUB SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. DEPTH OF THE PLANTING HOLE SHOULD BE DETERMINED AND DUG AFTER THE ROOT FLARE IS LOCATED. PLANTING HOLE MUST BE NO DEEPER THAN THE HEIGHT OF THE ROOT BALL.
3. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT AND REMOVE THE WIRE BASKET. REMOVE ALL TWINE, ROPE, AND BURLAP FROM ALL ROOT BALLS.
4. PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.
5. DO NOT PLACE MULCH IN CONTACT WITH STEMS.
6. WATER ALL PLANTS WITHIN 2 HOURS OF INSTALLATION.
7. PRUNE ONLY AS NECESSARY TO REMOVE UNHEALTHY BRANCHES. DO NOT REMOVE MORE THAN ⅓ OF THE ORIGINAL PLANT MASS.

2 SHRUB PLANTING
SCALE: NOT TO SCALE



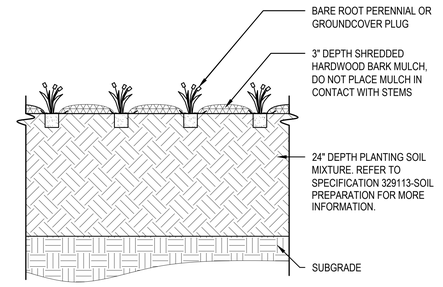
NOTES:
1. FOR 3 TO 10 GALLON CONTAINERS: MAKE 1" TO 2" DEEP VERTICAL CUTS EVERY 6" AROUND THE CIRCUMFERENCE OF THE ROOT BALL BEFORE PLANTING.
2. PLANT EACH SHRUB OR PERENNIAL SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
3. PLANTING HOLE MUST NOT BE DEEPER THAN THE HEIGHT OF THE ROOT BALL.
4. DO NOT PLACE MULCH IN CONTACT WITH STEMS.
5. PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.
6. WATER ALL PLANTS WITHIN 2 HOURS OF INSTALLATION.
7. PRUNE ONLY AS NECESSARY TO REMOVE UNHEALTHY BRANCHES. DO NOT REMOVE MORE THAN ⅓ OF THE ORIGINAL PLANT MASS.

3 LARGE CONTAINER PLANTING
SCALE: NOT TO SCALE

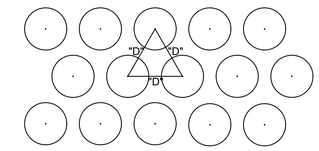


NOTES:
1. FOR 1 TO 2 GALLON CONTAINERS: BUTTERFLY ROOT BALL. SEVER LOWER ¼ TO ½ OF ROOT BALL WITH SINGLE CUT. SPREAD OPEN SEVERED ROOT BALL AND PLACE AGAINST BOTTOM OF MOUNDED PLANTING HOLE.
2. PLANT EACH SHRUB OR PERENNIAL SUCH THAT THE STEM FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
3. PLANTING HOLE MUST BE NO DEEPER THAN THE HEIGHT OF THE ROOT BALL.
4. DO NOT PLACE MULCH IN CONTACT WITH STEMS.
7. WATER ALL PLANTS WITHIN 2 HOURS OF INSTALLATION.
8. PRUNE ONLY AS NECESSARY TO REMOVE UNHEALTHY BRANCHES. DO NOT REMOVE MORE THAN ⅓ OF THE ORIGINAL PLANT MASS.

4 SMALL CONTAINTER PLANTING
SCALE: NOT TO SCALE

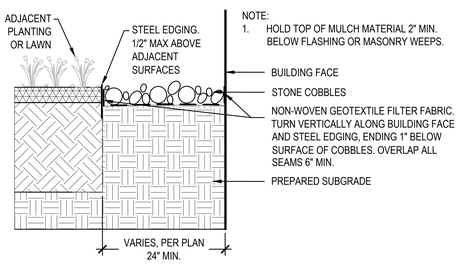


5 PERENNIAL PLUG PLANTING
SCALE: NOT TO SCALE



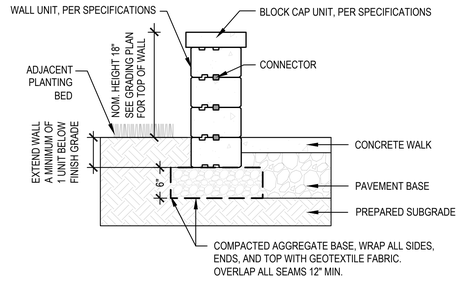
D=DIMENSION OF PLANT SPACING AS INDICATED ON PLANT SCHEDULE

6 PLANT SPACING
SCALE: NOT TO SCALE

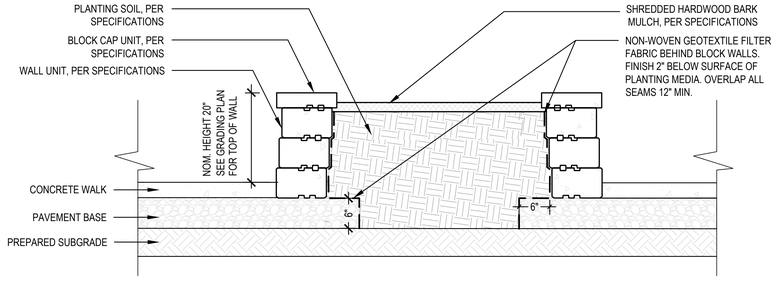


NOTE:
1. HOLD TOP OF MULCH MATERIAL 2" MIN. BELOW FLASHING OR MASONRY WEEPS.

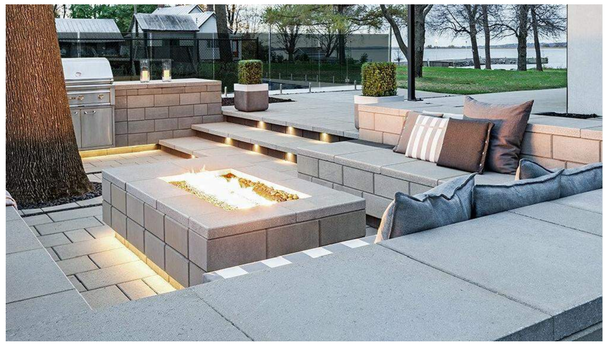
7 DECORATIVE STONE COBBLES
SCALE: NOT TO SCALE



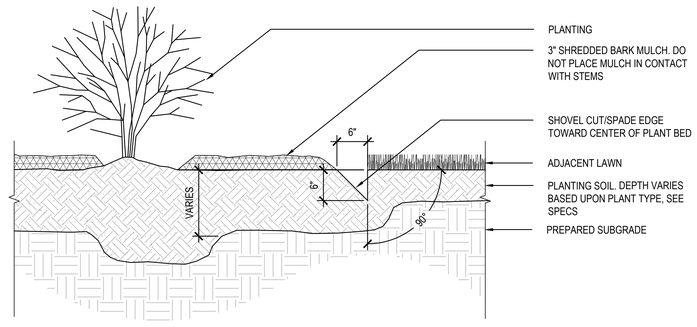
8 CONCRETE BLOCK FREESTANDING WALL
SCALE: NOT TO SCALE
SEE IMAGE 'A'



9 CONCRETE BLOCK RETAINING WALL
SCALE: NOT TO SCALE
SEE IMAGE 'A'



10 CONCRETE BLOCK- IMAGE 'A'
SCALE: NOT TO SCALE



NOTES:
1. SHOVEL CUT/SPADE EDGE AROUND ALL PLANTING BEDS.
2. SHOVEL CUT/SPADE EDGE AROUND ALL SINGLE TREES PLANTED IN SEEDED LAWN AREAS (4'-0" DIAMETER FROM CENTER OF TRUNK, TYP.).

11 SHOVEL CUT EDGE
SCALE: NOT TO SCALE

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Project No. 2019006.00

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Architect Seal

WISCONSIN DAVID KEN SAIKI LA-76 MADISON WI LANDSCAPE ARCHITECT

Signature _____
Print Name _____
Date _____ License No _____

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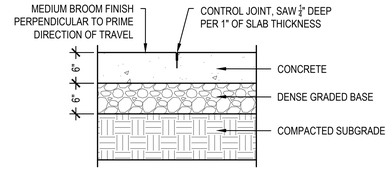
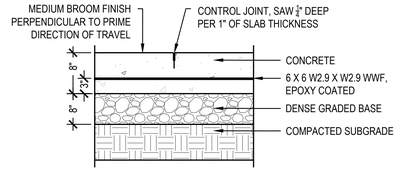
LANDSCAPE DETAILS

L500



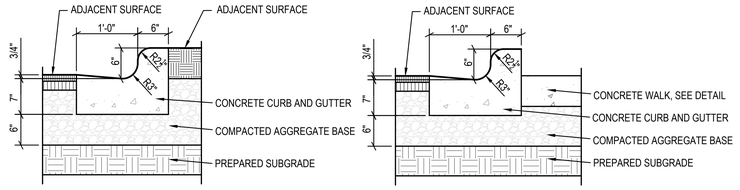
1 STANDARD DUTY CONCRETE PAVEMENT

SCALE:NOT TO SCALE



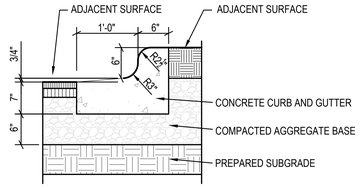
2 HEAVY DUTY CONCRETE PAVEMENT

SCALE:NOT TO SCALE



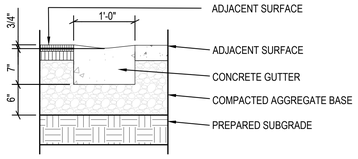
3 CONCRETE CURB AND GUTTER

SCALE:NOT TO SCALE



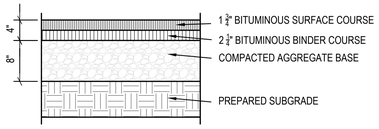
4 REJECT CURB AND GUTTER

SCALE:NOT TO SCALE



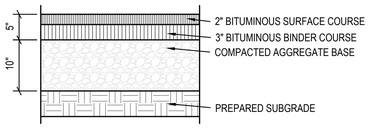
5 CONCRETE GUTTER

SCALE:NOT TO SCALE



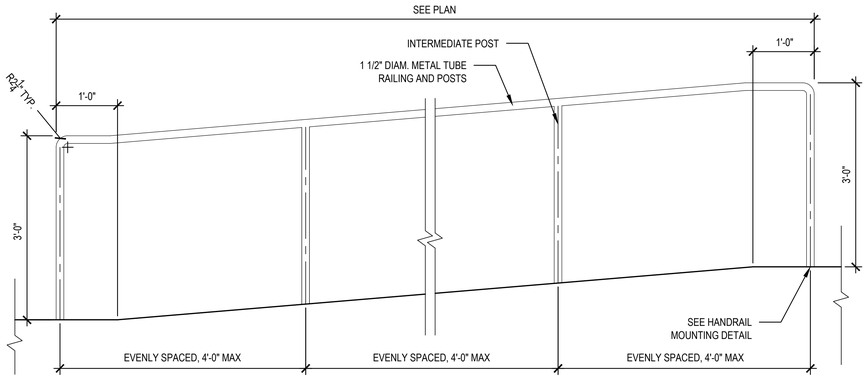
6 STANDARD DUTY ASPHALT

SCALE:NOT TO SCALE



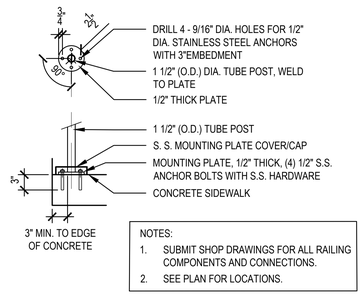
7 HEAVY DUTY ASPHALT

SCALE:NOT TO SCALE



10 HANDRAIL

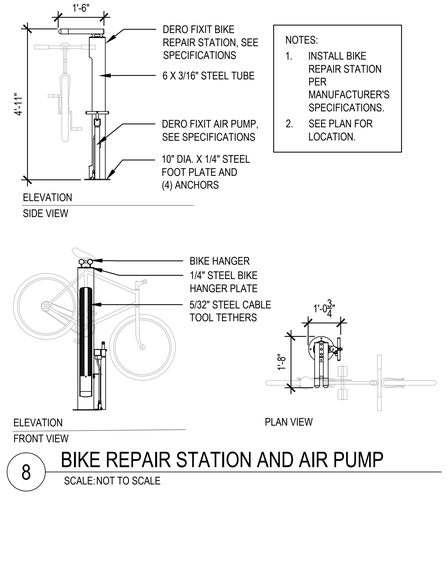
SCALE:NOT TO SCALE



NOTES:
1. SUBMIT SHOP DRAWINGS FOR ALL RAILING COMPONENTS AND CONNECTIONS.
2. SEE PLAN FOR LOCATIONS.

11 HANDRAIL MOUNTING

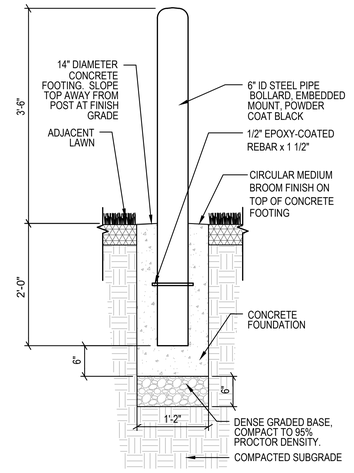
SCALE:NOT TO SCALE



NOTES:
1. INSTALL BIKE REPAIR STATION PER MANUFACTURER'S SPECIFICATIONS.
2. SEE PLAN FOR LOCATION.

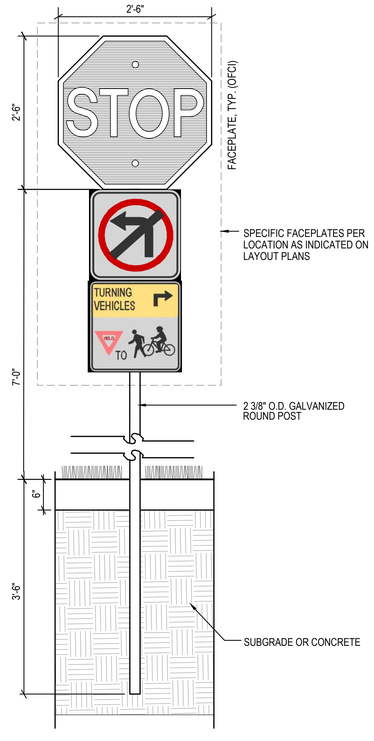
8 BIKE REPAIR STATION AND AIR PUMP

SCALE:NOT TO SCALE



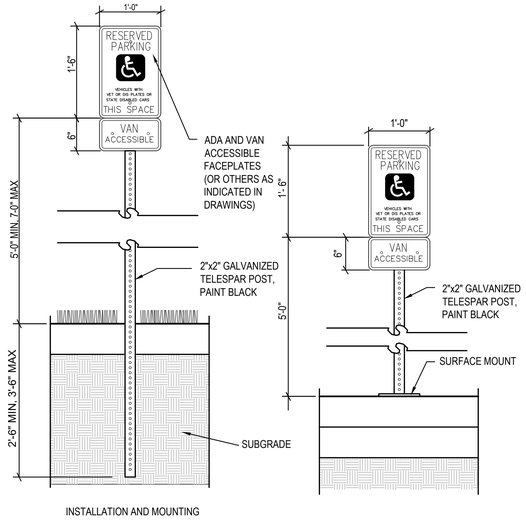
9 BOLLARD

SCALE:NOT TO SCALE



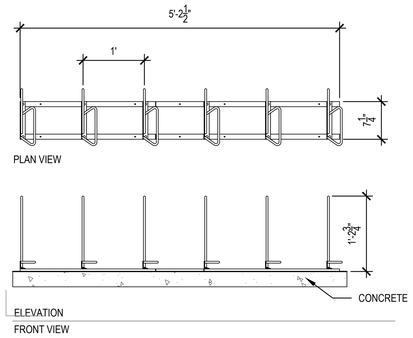
12 STOP SIGN

SCALE:NOT TO SCALE



13 ACCESSIBLE PARKING STALL SIGN

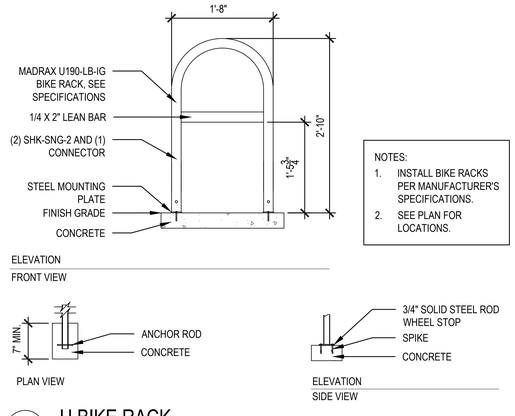
SCALE:NOT TO SCALE



NOTES:
1. INSTALL BIKE RACKS PER MANUFACTURER'S SPECIFICATIONS.
2. SEE PLAN FOR LOCATIONS.

14 SHARK BIKE RACK

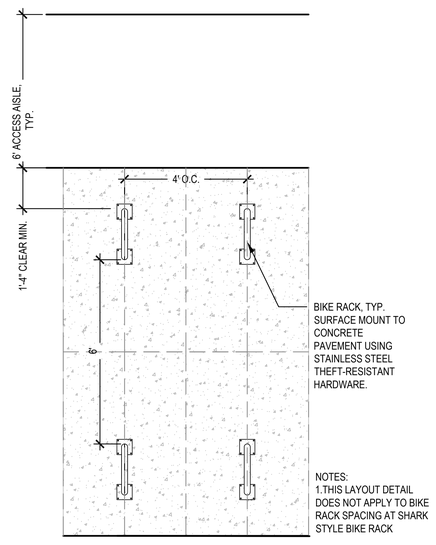
SCALE:NOT TO SCALE



NOTES:
1. INSTALL BIKE RACKS PER MANUFACTURER'S SPECIFICATIONS.
2. SEE PLAN FOR LOCATIONS.

15 U BIKE RACK

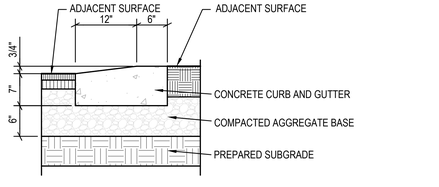
SCALE:NOT TO SCALE



NOTES:
1.THIS LAYOUT DETAIL DOES NOT APPLY TO BIKE RACK SPACING AT SHARK STYLE BIKE RACK

16 U BIKE RACK SPACING DETAIL

SCALE:NOT TO SCALE



17 REJECT GUTTER

SCALE:NOT TO SCALE

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Commercial Kitchen Design
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7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2019008.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN DAVID KEN SAIKI LA-76 MADISON WI LANDSCAPE ARCHITECT

Signature _____

Print Name _____

Date _____ License No _____

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
	2023.06.09	BID DOCUMENTS

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HARDSCAPE DETAILS

L501

DESIGN CRITERIA AND LOADS

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
   IBC 2015
   ASCE/SEI 7-10
   ACI 318-14
   ACI 530-13
   AISC 360-10 (ASD)
   AWS D1.1
   AISI S100

2. RISK CATEGORY — II

3. SEISMIC:

SEISMIC DESIGN CATEGORY	B
IMPORTANCE FACTOR	1.0
SOIL CLASSIFICATION PER GEOTECHNICAL REPORT	D
S_S	0.084 g
S_1	0.046 g
S_{ds}	0.090 g
S_{d1}	0.073 g

4. WIND:

BASIC WIND SPEED	115 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE CLASS	B
MWFRS DESIGN PRESSURE	30 PSF [1.0WL]
NET ROOF UPLIFT PRESSURE	5 PSF [LC: 0.6 DL + 1.0WL]
C&C DESIGN PRESSURE	PER APPLICABLE BUILDING CODE

5. LIVE LOADS:

TYPICAL FLOOR	100 PSF (REDUCIBLE)
MECHANICAL & STORAGE	125 PSF (UNREDUCIBLE)
CORRIDORS, STAIR & PUBLIC AREAS	100 PSF (UNREDUCIBLE)
PV ARRAY	5 PSF

6. SNOW:

GROUND SNOW	30 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.0
FLAT-ROOF SNOW	21 PSF
DESIGN SNOW	25 PSF
DRIFTING SNOW	REF S002

GENERAL

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.

2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD (AOR) PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR AOR.

3. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE AOR SHALL BE NOTIFIED FOR CLARIFICATION.

4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.

5. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.

6. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE AOR PRIOR TO PROCEEDING WITH THE WORK.

7. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH AOR.

8. TYPICAL DETAILS SHALL APPLY UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

9. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE AOR OR STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.

10. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.

11. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.

12. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SEOR.

13. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.

14. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE AOR. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE AOR SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE AOR/SEOR.

15. SHOP DRAWINGS SHALL BE REVIEWED BY THE AOR/SEOR FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE AOR/SEOR ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

16. ELEVATIONS ARE BASED ON THE EXISTING FIRST FLOOR ELEVATION.

17. EXISTING CONDITIONS:
   A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED:
      1953 BY JOHN J. FLAD & ASSOCIATES
      1967 BY CITY OF MADISON - BUILDING INSPECTION DEPARTMENT
      2007 BY STRAND ASSOCIATES, INC.
   B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE AOR OR SEOR SO PROPER CLARIFICATION MAY BE MADE.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED JULY 11, 2019 BY CGC, INC. REPORT IS ON FILE WITH THE AOR.

2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:

ALLOWABLE NET SOIL BEARING PRESSURE:	
FOOTINGS	1500 PSF
ANTICIPATED DEPTH TO ALLOWABLE FROST DEPTH	4 FT
EQUIVALENT FLUID PRESSURE	55 PCF RESTRAINED WALLS

3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.

4. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.

5. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.

6. ANY IMPORT FILL SOIL REQUIRED SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO IMPORTING.

7. ALL SITE WORK SHALL BE PERFORMED UNDER THE INSPECTION OF THE INSPECTION AGENCY. VARIATIONS IN SITE CONDITIONS AND THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE AOR/SEOR FOR CLARIFICATIONS PRIOR TO PROCEEDING.

STEEL HELICAL PILES

1. STEEL HELICAL PILES SHALL BE ACCURATELY CENTERED AT THE PROPER LOCATIONS AND INSTALLED PLUMB. INSTALL TO THE FOLLOWING TOLERANCES:
   TOP ELEVATION: ±1/2"
   PLUMB: WITHIN 1°
   PILE CENTERLINE: WITHIN 3"

2. PILE DESIGN SHALL BE DESIGNED TO MEET THE SPECIFIED LOADING AS SHOWN ON PLAN AND A DEFLECTION CRITERIA OF 1/2" DIFFERENTIAL AND 1" TOTAL SETTLEMENT, UNO.

3. INSPECTION AGENCY SHALL KEEP A RECORD OR LOG OF EACH PILE AS INSTALLED SHOWING LOCATION, TOP AND BOTTOM ELEVATIONS, DIAMETERS, DATE INSTALLED, TYPE OF STRATA ENCOUNTERED AND ANY OTHER PERTINENT INFORMATION.

4. HELICAL PILE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS STAMPED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE AOR/SEOR AND SHALL INCLUDE HELICAL PILE COMPONENTS, CORROSION PROTECTION SYSTEM, PILE TOP ATTACHMENT AND HELIX DETAILS.

REINFORCING STEEL

1. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:

DEFORMED BARS	ASTM A615, GR60	Fy = 60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy = 65 KSI

2. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:

CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#6 BARS OR LARGER	2"
#5 BARS OR SMALLER	1 1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, JOISTS AND WALLS WITH #14 AND #18 BARS	1 1/2"
SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER	3/4"
BEAMS, COLUMNS, PEDESTALS AND TENSION TIES	1 1/2"

3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

BAR SIZE	3000 PSI CONCRETE OTHER	3000 PSI CONCRETE TOP	4000 PSI CONCRETE OTHER	4000 PSI CONCRETE TOP
#3	22	28	19	25
#4	29	38	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81
#9	81	105	70	91
#10	90	116	78	101
#11	98	128	85	111

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.

CAST-IN-PLACE CONCRETE

1. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	28-DAY STRENGTH (PSI)
FOOTINGS	3000
FOUNDATIONS	4000
SLAB-ON-GRADE	3000
UNLESS NOTED OTHERWISE	4000

2. DRYPACK SHALL BE 1:3-1/2 PORTLAND CEMENT TO SAND WITH A MINIMUM 28-DAY STRENGTH OF 7000 PSI.

3. SLAB ON GRADE CONSTRUCTION:
   LOCATE SAW CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNO. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS.

THICKNESS (IN)	MAX JOINT SPACING (FT)
4	12
5	15
6	18
8	24
10	30
12	36

4. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES OF WALLS/GRADE BEAMS AND PIERS.

5. UNO, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.

6. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE SEOR THROUGH THE AOR.

MASONRY

1. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR MASONRY CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2000 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	2000 PSI
MORTAR	1800 PSI
GROUT	2000 PSI

2. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS (CMU)	ASTM C90, GRADE N-1
MORTAR	ASTM C270, TYPE S
GROUT	ASTM C476
REINFORCING STEEL	ASTM A615, GR 60
PLATE AND BENT BAR ANCHORS	ASTM A36
SHEET METAL ANCHORS AND TIES	ASTM A1008
WIRE MESH TIES	ASTM A1064
WIRE TIES AND ANCHORS	ASTM A951
ANCHOR BOLTS	ASTM A307, GRADE A

3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS EXCEPT BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED:

   ASD:

MINIMUM LAP SPLICE LENGTH

BAR SIZE	f'm = 2000 PSI 8" CMU	10" CMU	12" CMU
#3	12	12	12
#4	13	12	12
#5	20	16	13
#6	38	29	24
#7	52	40	33
#8	70	61	50
#9	NP	78	64

4. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING MASONRY WALLS TO UNDERSIDE OF LINTEL. EXTEND GROUTED JAMB FROM FACE OF MASONRY OPENING AT LEAST EQUAL TO THE BEARING LENGTH OF THE LINTEL BEYOND THE OPENING PLUS 8 INCHES.

5. PROVIDE A MINIMUM OF 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND MASONRY UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNO.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.

2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS OCCURRING IN EXISTING BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF WALL.

3. LINTELS IN NON-BEARING MASONRY CAN BE SIZED PER THE FOLLOWING:

SPAN	STEEL OPTION (FOR EACH 4" OF MASONRY WIDTH)*	MASONRY BOND BEAM OPTIONS 6" BLOCK	8" BLOCK	10" BLOCK
0'-0" TO 2'-0"	5/16" PLATE	8" DEEP WITH (1) #4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #5
2'-0" TO 4'-0"	L3 1/2x3 1/2x1/4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #4	8" DEEP WITH (1) #5
4'-0" TO 6'-0"	L4x3 1/2x5/16 (LLV)	12" DEEP WITH (1) #4	12" DEEP WITH (1) #5	12" DEEP WITH (2) #5
6'-0" TO 8'-0"	L5x3 1/2x5/16 (LLV)	12" DEEP WITH (1) #5	12" DEEP WITH (2) #5	12" DEEP WITH (2) #5
8'-0" TO 10'-0"	L6x3 1/2x3/8 (LLV)	16" DEEP WITH (1) #5	16" DEEP WITH (2) #5	16" DEEP WITH (2) #5

* ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" AT 12" OC MINIMUM.

4. BOTTOM PLATE SIZE SHALL BE A MINIMUM OF 3/8" THICK AND A WIDTH OF 3/4" LESS THAN THE FIELD VERIFIED WALL THICKNESS, UNO. THE PLATE SHALL BE THE FULL LENGTH OF THE LINTEL MEMBER.

5. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNO.

6. ALL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNO.

POST-INSTALLED ANCHORS

1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE SEOR FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.

2. MECHANICAL ANCHORS:
   EXPANSION ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KWIK BOLT 3 [ESR-1385]	DEWALT POWER STUD+ SD1 [ESR-2966] SIMPSON WEDGE-ALL [ESR-1396]
CONCRETE	HILTI KWIK BOLT 3 [ESR-2302]	DEWALT POWER STUD+ SD2 [ESR-2502] RED HEAD TRUBOLT+ [ESR-2427] SIMPSON STRONG BOLT 2 [ESR-3037]

   THREADED SCREW ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KWIK HUS-EZ [ESR-3056]	DEWALT WEDGE-BOLT+ [ESR-1678] SIMPSON TITEN HD [ESR-1056]
CONCRETE	HILTI KWIK HUS-EZ [ESR-3027]	DEWALT POWER SCREW-BOLT+ [ESR-3889] SIMPSON TITEN HD [ESR-2713]

3. ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
HOLLOW MASONRY	HILTI HIT-HY 270 [ESR-4143]	DEWALT AC 100+ GOLD [ESR-3200] SIMPSON SET-XP [ESR-0265]
GROUTED MASONRY	HILTI HIT-HY 270 [ESR-4143]	DEWALT AC 100+ GOLD [ESR-3200] RED HEAD A7 ACRYLIC [ESR-3951] SIMPSON SET-XP [ESR-0265]
CONCRETE	HILTI HIT-HY 200 [ESR-3187]	DEWALT AC 200+ [ESR-4027] SIMPSON SET-3G [ESR-4057]

STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy = 35 KSI
HSS SECTIONS, ROUND	ASTM A500, GR B	Fy = 42 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR B	Fy = 46 KSI
BASE AND CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fv = 120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

2. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.

3. USE TENSION-CONTROL, "TWIST-OFF", BOLTS FOR ALL HIGH STRENGTH BOLTS REQUIRING FULL TENSION AS INDICATED ON THE DRAWINGS.

4. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325SC, UNO. FOR ALL DRAG STRUT BOLTS, HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A490SC.

5. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.

6. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.

7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, SECTION J2.4.

8. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE SEOR. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.

9. HEADED STUDS:
   A. STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"ø. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE INSPECTION AGENCY.

10. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.

11. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE SEOR. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE SEOR.

STEEL DECK

1. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
   A. VULCRAFT 2008 CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS.
   B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.

2. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.

3. ALL DECK SHALL MEET THE MINIMUM TYPE AND GAUGE INDICATED ON THE DRAWINGS, AND AS FOLLOWS:

TYPE	GAUGE	Ix	Sx	Fy
1.5" B (ROOF)	22	0.155	0.186	33
	20	0.201	0.234	33
	18	0.289	0.318	33
	16	0.373	0.408	33
2" VLI	22	0.324	0.263	50
	20	0.409	0.341	50
	18	0.559	0.495	50
	16	0.704	0.408	40

4. UNLESS NOTED OTHERWISE, DECK SHALL BE FASTENED WITH 5/8"ø PUDDLE WELDS AT 12" OC AT ALL SUPPORTS AND EDGES. SIDE LAPS SHALL BE FASTENED WITH #10 TEK SCREWS, MINIMUM ONE AT EACH MIDSPAN. OPENING EDGES SHALL RECEIVE THE SAME WELDING AS REQUIRED AT DECK ENDS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN COLD-FORMED STEEL DECK WORK.

5. PROVIDE 16 GAUGE WELD WASHERS AT PUDDLE WELD CONNECTIONS TO 24 GAUGE AND LIGHTER STEEL DECKS.

6. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAUGE.

7. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN COMPOSITE FLOOR SYSTEMS WITHOUT APPROVAL OF THE SEOR.

8. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG.

9. CORRUGATED FORM DECK GAUGES SHOWN ON THE DRAWINGS ARE INTENDED TO SUPPORT THE WEIGHT OF THE WET CONCRETE PLUS A CONSTRUCTION LIVE LOAD OF 20 PSF WITHOUT INTERMEDIATE SHORING BASED ON A THREE SPAN CONTINUOUS CONDITION. DECK MANUFACTURER SHALL EVALUATE OTHER SPAN CONDITIONS FOR DEFLECTION WHICH SHALL NOT EXCEED L/180 NOR 1/8 INCH UNDER THE UNIFORMLY DISTRIBUTED CONCRETE DEAD LOAD AND NOTE AREAS WHICH WILL REQUIRE SHORING TO CONTROL DEFLECTION AND/OR MEET ALLOWABLE STRESSES.

COLD-FORMED STEEL FRAMING (CFSF) SYSTEM

1. COLD-FORMED STRUCTURAL STUDS SHALL CONFORM TO THE FOLLOWING STANDARDS:

ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES		
18 GAUGE AND THINNER	ASTM A653, GR 33	Fy = 33 KSI
16 GAUGE AND THICKER	ASTM A653, GR 50	Fy = 50 KSI
CONNECTION MATERIAL >3/16"	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
BOLTS	ASTM A307	Fv = 10 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
INSTALLATION	ASTM C955 AND ASTM C1007	
ELECTRODES FOR ARC WELDING	AWS 5.1, E60XX	

2. STRUCTURAL CFSF IS PERFORMANCE SPECIFIED. DESIGN INFORMATION INCLUDED IN THESE DOCUMENTS IS TO BE CONSIDERED A GUIDELINE FOR BIDDING PURPOSES ONLY. STUD DEPTH IS REQUIRED TO MEET THOSE INDICATED ON THE PLANS. CONNECTION DETAILS ARE ONLY AN INDICATION OF SUGGESTED SUPPORT AND SLIP JOINT ORIENTATION. GAUGE, SECTION, MATERIAL, BRACING, CONNECTIONS, STIFFENERS, AND SIMILAR DETAILS ARE THE RESPONSIBILITY OF THE MANUFACTURER BASED ON LOADS GIVEN ON THE PLANS AND SPECIFICATIONS.

3. PROVIDE TRACKS, BLOCKING, HEADERS, CLIP ANGLES, BRIDGING, SHOES, REINFORCEMENTS, FASTENERS AND ACCESSORIES TO PROVIDE A COMPLETE METAL FRAME SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

4. TRACK SHALL BE THE SAME SIZE AND GAUGE AS THE STUD.

5. UNIFORM BEARING SURFACE SHALL BE PROVIDED WITH A MAXIMUM 1/4 INCH GAP BETWEEN BOTTOM TRACK AND THE FOUNDATION OR SLAB. IT SHALL BE ACCOMPLISHED BY THE USE OF LOAD BEARING SHIMS AND/OR GROUT PROVIDED BETWEEN THE UNDERSIDE OF THE WALL BOTTOM TRACK AND THE TOP OF THE FOUNDATION OR SLAB AT EACH STUD.

6. UNLESS OTHERWISE NOTED, ATTACH MATERIALS BY BOLTING OR SCREW FASTENERS.
   A. SCREW CONNECTIONS:
      1) SCREWS LARGER THAN SPECIFIED MAY BE USED, PROVIDED THE MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS ARE MET.
      2) SCREWS SHALL BE FULLY DRIVEN AND HAVE A MINIMUM PENETRATION OF THREE THREADS THROUGH THE LAST MATERIAL JOINED.
      3) SCREWS SHALL HAVE A PROTECTIVE COATING COMPLYING WITH RECOGNIZED DESIGN STANDARDS FOR THE PROJECT ENVIRONMENTAL CONDITIONS.
   B. BOLT CONNECTIONS:
      1) BOLTS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A307 AND SHALL BE INSTALLED WITH NUTS AND WASHERS AT SPACING PER RECOGNIZED DESIGN STANDARD.

7. UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR IN SHEAR WALL PANELS, FASTEN GYPSUM BOARD WITH #6 x 1" BUGLE HEAD SCREWS AT 12" OC AT ALL SUPPORTS AND EDGES.

8. WEB CRIPPLING BASED ON MINIMUM 10" UNPUNCHED STEEL AT BOTH ENDS.

9. PREFABRICATED COLD FORM TRUSSES:
   A. DESIGN, FABRICATE, TRANSPORT AND ERECT COLD FORM TRUSSES IN ACCORDANCE WITH AISI S214 STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
   B. PRE-FABRICATED PRE-ENGINEERED TRUSSES ARE PERFORMANCE SPECIFIED. DESIGN INFORMATION INCLUDED IN THESE DOCUMENTS IS TO BE CONSIDERED SCHEMATIC. SECTION, BRACING, CONNECTIONS, AND SIMILAR DETAILS ARE THE RESPONSIBILITY OF THE MANUFACTURER BASED ON LOADS GIVEN ON THE PLANS AND SPECIFICATIONS.
   C. TRUSS CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE PROPERLY SIZED ANCHORAGE FOR TRUSS-TO-TRUSS CONNECTIONS.
   D. ALL PERMANENT AND TEMPORARY BRACING AND FASTENING AT BEARINGS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER, UNO.

THERMAL BREAK MATERIAL

1. STRUCTURAL THERMAL BREAK MATERIAL, BUSHINGS AND WASHERS SHALL CONFORM TO THE FOLLOWING MINIMUM STANDARDS:

BASIS OF DESIGN	FABREEKA	
COMPRESSIVE STRENGTH	ASTM D638	38,900 PSI
COMPRESSIVE MODULUS	ASTM D695	291,194 PSI FOR 1/2"
SHEAR STRENGTH	ASTM D732	15,000 PSI
THERMAL CONDUCTIVITY	ASTM C518	1.8 BTU IN/HR SF °F
COEFFICIENT OF THERMAL EXPANSION	ASTM E831	2.2 10E-6 IN/IN/°F
THERMAL RESISTANCE (R-VALUE)	ASTM C518	0.95 HR SF °F/BTU

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MADISON PUBLIC MARKET

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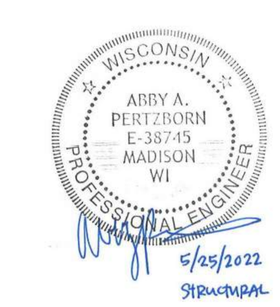
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal



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BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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GENERAL NOTES

S001

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STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
Ø	DIAMETER
-3"	SLAB DEPRESSION
A.B.	ANCHOR BOLT
AHU	AIR-HANDLING UNIT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BLKG	BLOCKING
BM	BEAM
B.N.	BOUNDARY NAILING
B.O.F.	BOTTOM OF FOOTING
BOTT	BOTTOM
BP	BASE PLATE
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
f'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
FIN	FINISH, -ED
FLR	FLOOR
F.N.	FIELD NAILING
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FRMG	FRAMING
FT	FOOT
FTG	FOOTING
Fv	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
HI	HIGH
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
IN	INCH
INT	INTERIOR
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSP	KIPS PER SQUARE FOOT
LB	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LO	LOW
LONG	LONGITUDINAL
LT WT	LIGHTWEIGHT
M.B.	MACHINE BOLT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
MTL	METAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
P.H.	PENTHOUSE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTDF	PRESSURE TREADED DOUGLAS FIR
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF-TOP UNIT
SC	TC WITH CLASS A FAYING SURFACE
SCBF	SPECIAL CONCENTRIC BRACE FRAME
SCHED	SCHEDULE
SEPN	SEPARATION
SIM	SIMILAR
SHTG	SHEATHING
SL	SNOW LOAD
SLRS	SEISMIC LOAD RESISTING SYSTEM
SOG	SLAB ON GRADE
SP	SPACE(S)
SPEC	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SUPPT	SUPPORT
SYM	SYMMETRICAL
T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
W/	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

STRUCTURAL DRAWING SYMBOLS

MASONRY HATCHING

STEEL HATCHING

MISCELLANEOUS HATCH

CONCRETE HATCHING

EARTH HATCHING

CENTERLINE OR GRID — HIDDEN

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1 View Name

1/8" = 1'-0"

SCALE OF PLAN OR DETAIL

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

REVISION TRIANGLE - NUMBER INDICATES REVISION NUMBER

ELEVATION MARK

INDICATES CHANGE OF SLAB ELEVATION

COLUMN DESIGNATION

BASE PLATE MARK

FOOTING MARK (TOP ELEVATION)

PIER MARK (TOP ELEVATION)

LOWER ELEVATION

UPPER ELEVATION

INDICATES STEP IN T/CONTINUOUS FOOTING

UPPER ELEVATION

LOWER ELEVATION

INDICATES STEP IN T/FOUNDATION WALL

OPEN

FLOOR SLAB OR ROOF DECK OPENING

FLOOR AND/OR ROOF DECK ORIENTATION (DIRECTION OF SPAN)

INDICATES DIRECTION OF DECK EXTENTS. DECK SHALL TERMINATE AT THE EDGE OF SLAB SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE

BRACED FRAME ELEVATION

BRACED FRAME SYMBOL

BEAM SPLICE

BEAM SIZE

NUMBER OF SHEAR STUDS PER FOOT

AMOUNT OF BEAM CAMBER

TOP OF STEEL ELEVATION

REQUIRED UNFACTORED CONNECTION REACTION (KIPS) - SUPERCEDES TABULATED VALUES

REQUIRED UNFACTORED CONNECTION REACTION (KIPS) - SUPERCEDES TABULATED VALUES

REQUIRED UNFACTORED CONNECTION REACTION (KIPS) - SUPERCEDES TABULATED VALUES

BEAM TO COLUMN MOMENT (FULLY RESTRAINED) CONNECTION - REFER TO DETAIL

BEAM THROUGH BEAM MOMENT (FULLY RESTRAINED) CONNECTION - REFER TO DETAIL

BEAM TO COLUMN MOMENT (PARTIALLY RESTRAINED) CONNECTION - REFER TO DETAIL

BEAM TO COLUMN KICKER (BELOW) - REFER TO DETAIL

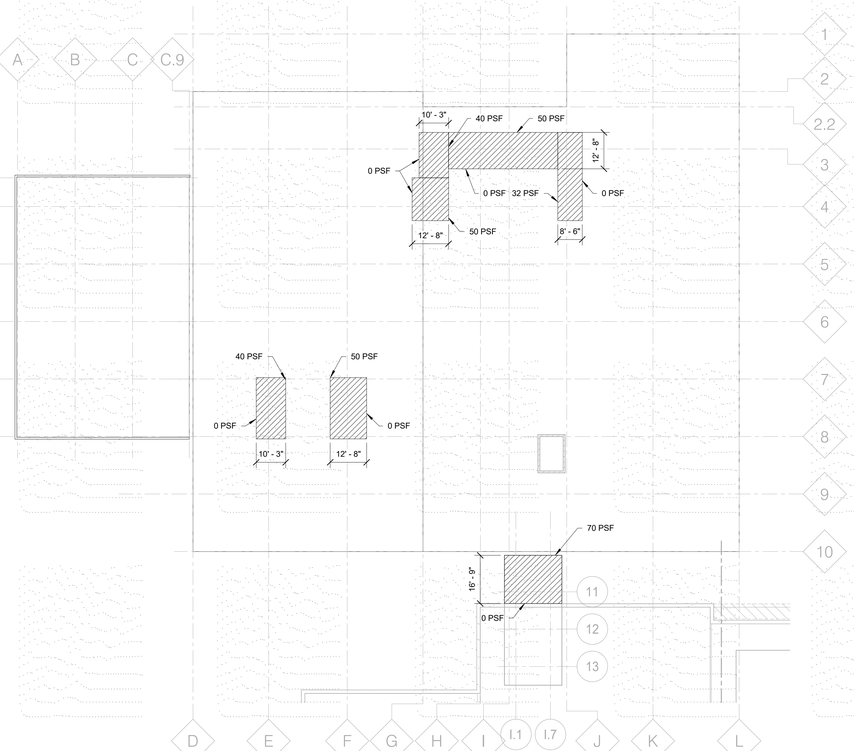
BEAM TO SLAB KICKER (BELOW) - REFER TO DETAIL

BEAM BEARING ON WALL - REFER TO DETAIL FOR BEAM POCKET CONDITION

INDICATES COLUMN BEARING ON CONCRETE FOUNDATION WALL, GRADE BEAM, OR PIER

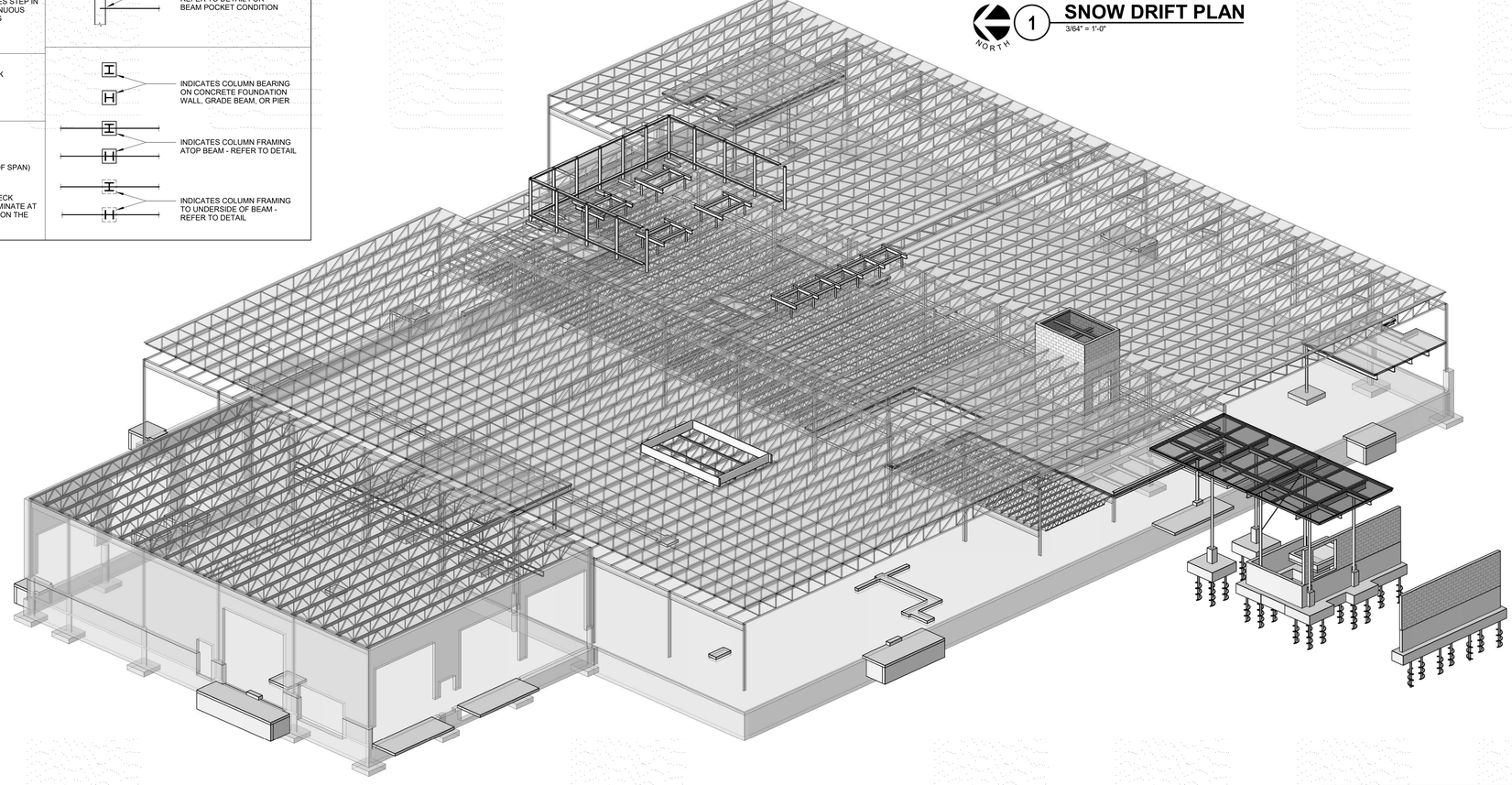
INDICATES COLUMN FRAMING ATOP BEAM - REFER TO DETAIL

INDICATES COLUMN FRAMING TO UNDERSIDE OF BEAM - REFER TO DETAIL



1 SNOW DRIFT PLAN

3/64" = 1'-0"



3D VIEW –FOR REFERENCE ONLY

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal

WISCONSIN
ABBY A. PERTZBORN
E-38745
MADISON
WI
PROFESSIONAL ENGINEER
5/25/2022

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PROJECT #19000507.00

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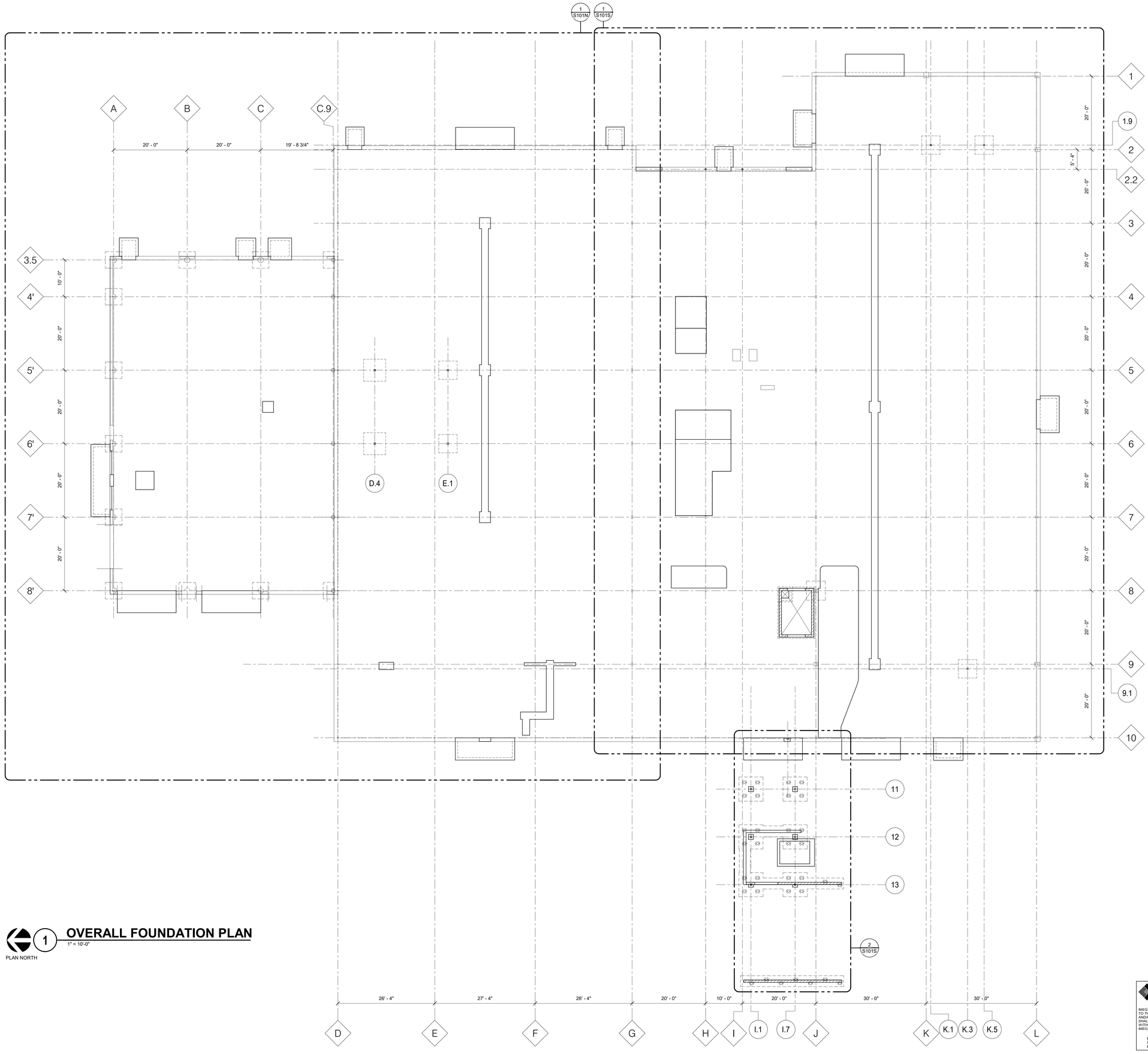

1 **OVERALL FOUNDATION PLAN**
1" = 10'-0"

PLAN NORTH

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien
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Civil Engineer

Vierbicher
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Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

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Project No: 20190606.00

MADISON PUBLIC MARKET
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ABBY A. PERTZBORN
E-38745
MADISON
WI
PROFESSIONAL ENGINEER
6/23/2022
STRUCTURAL

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OVERALL
FOUNDATION PLAN

S101

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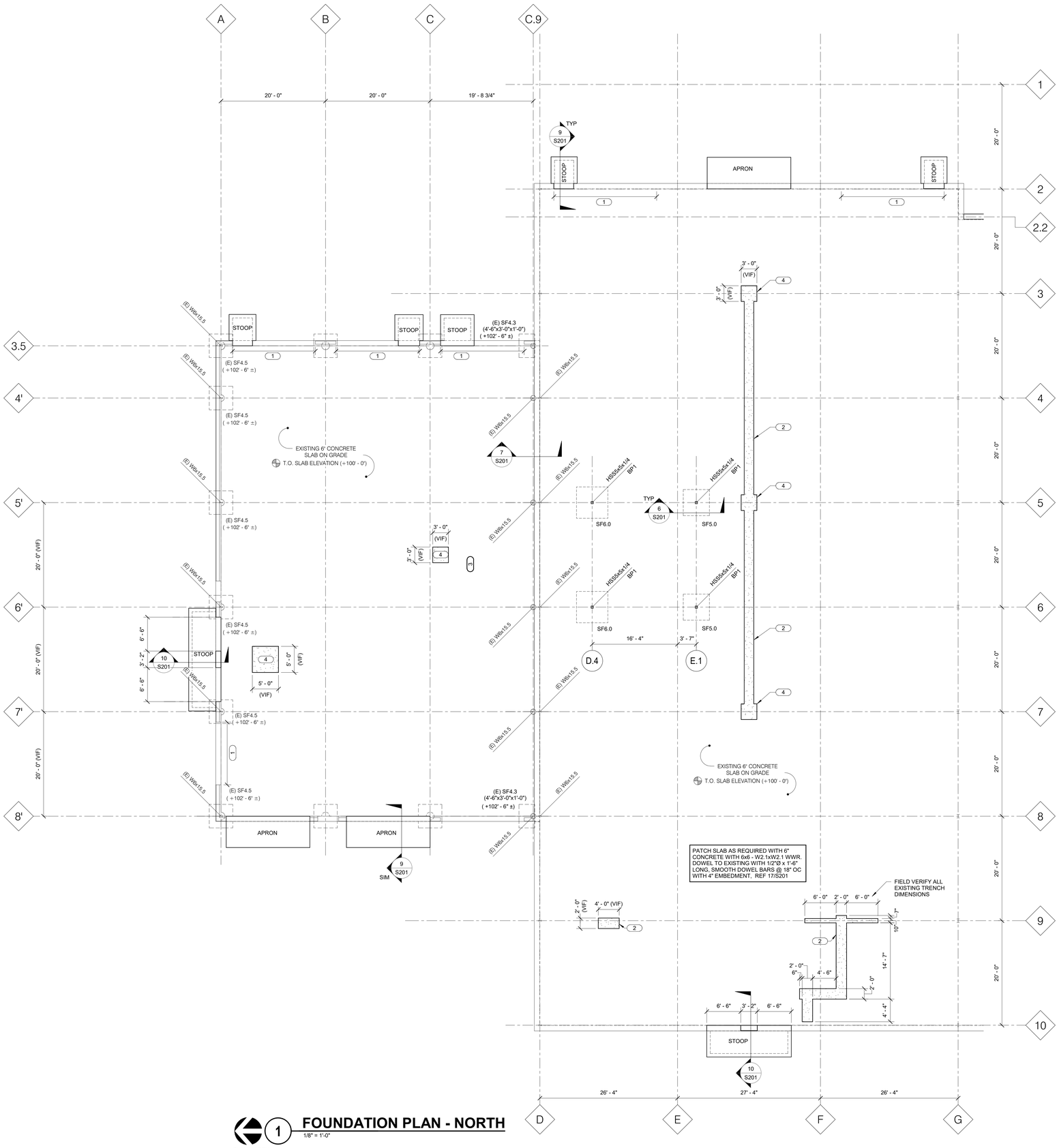

1 FOUNDATION PLAN - NORTH

1/8" = 1'-0"

PLAN NORTH

NOTES:

1. TOP OF FOOTING EL (+99' - 4") UNO. REFER TO S101S FOR SPREAD FOOTING SCHEDULE.
2. REFER TO S301 FOR BASE PLATE DETAILS.
3. PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.

KEYNOTES: (#)

1. AT GLAZING: SAWCUT EXISTING CONCRETE WALL DOWN TO (+100' - 8").
   AT DOORS: SAWCUT EXISTING CONCRETE WALL DOWN TO (+99' - 4").
2. EXISTING FLOOR TRENCH FILLED WITH CONCRETE: GRIND DOWN EXISTING CONCRETE 2" AND POUR NEW CONCRETE TOPPING WITH FIBER REINFORCING.
3. SAWCUT EXISTING CONCRETE WALL DOWN TO (+99' - 4") BETWEEN EXISTING COLUMN PIERS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL EXTENTS.
4. EXISTING CATCH BASIN FILLED WITH GRAVEL WITH CONCRETE CAP: CONTRACTOR OPTION TO GRIND DOWN EXISTING CONCRETE 2" AND POUR NEW CONCRETE TOPPING WITH FIBER REINFORCING OR DEMO EXISTING CAP AND POUR NEW CONCRETE CAP WITH FIBER REINFORCING.

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Project No: 20190606.00

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STRUCTURAL

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FOUNDATION PLAN - NORTH

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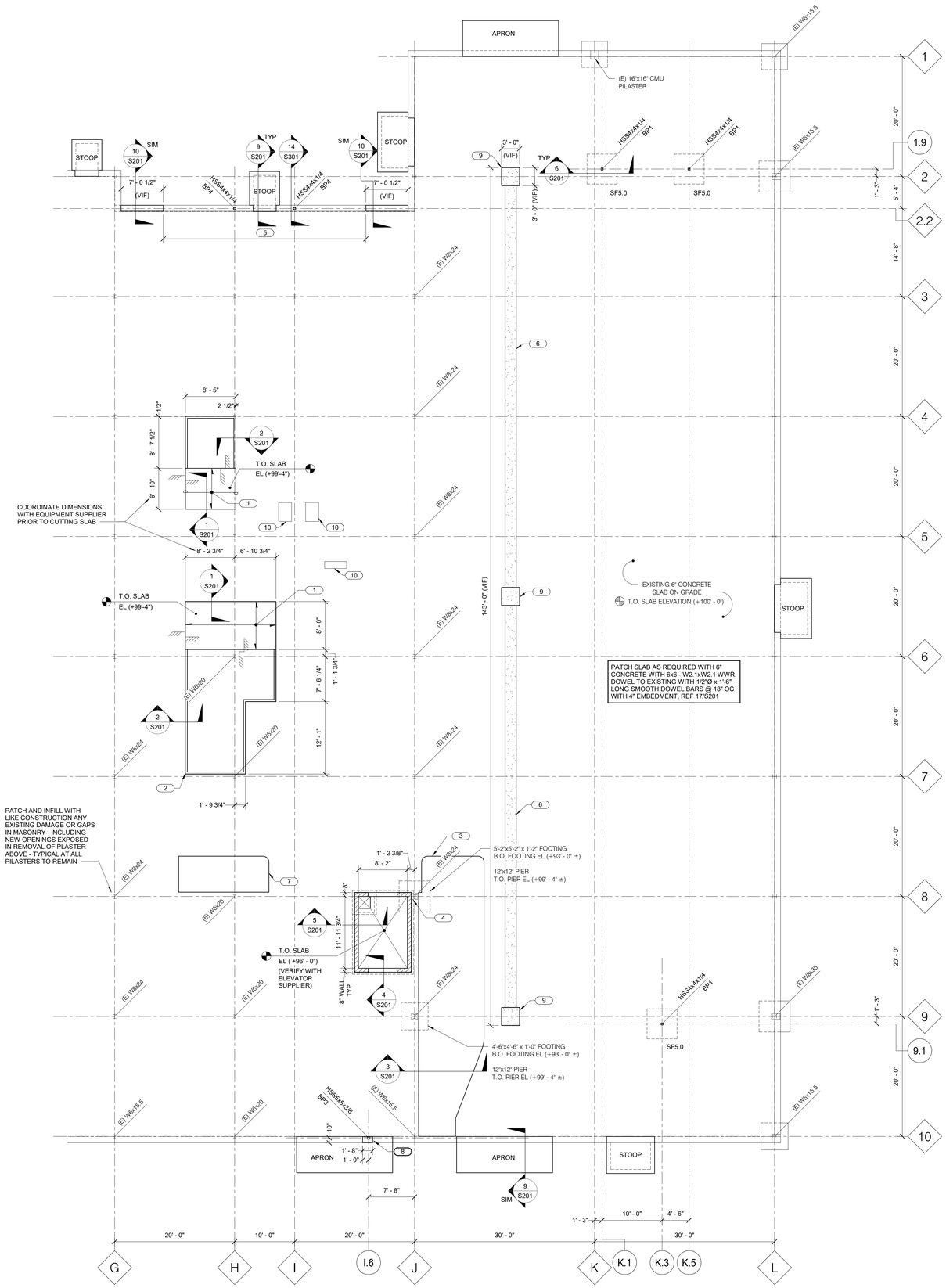


1 FOUNDATION PLAN - SOUTH

1/8" = 1'-0"

PLAN NORTH

HELICAL PILE LOAD SCHEDULE			
GRID	DEAD LOAD (K)	SNOW LOAD (K)	WIND LOAD (K)
11	2.2	6.8	0.3 UP OR DOWN
12	1.6	2.6	0.7 UP OR DOWN
13	2.2	3.7	0.6 UP OR DOWN

NOTES:

1. ALL LOADS ARE UNFACTORED VERTICAL LOADS, UNO.

SPREAD FOOTING SCHEDULE					
				REINFORCING	
MARK	LENGTH	WIDTH	THICKNESS	LONG DIRECTION	SHORT DIRECTION
SF5.0	5' - 0"	5' - 0"	1' - 0"	(5) #5	(5) #5
SF6.0	6' - 0"	6' - 0"	1' - 0"	(6) #5	(6) #5

PILE CAP SCHEDULE				
		BOTTOM REINFORCING		
MARK	THICKNESS	LONG DIRECTION	SHORT DIRECTION	REMARKS
PC4	2' - 0"	(8) #6	(8) #6	

NOTES:

1. REFER TO S201 FOR PILE CAP DETAILS.
2. PROVIDE STANDARD 90° HOOK EACH END OF REINFORCING BARS.

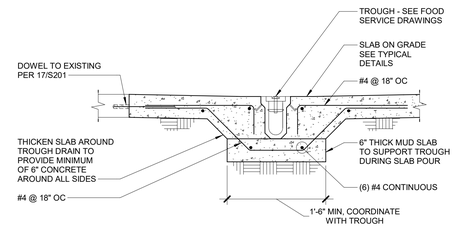
CONTINUOUS FOOTING SCHEDULE				
			REINFORCING	
MARK	WIDTH	THICKNESS	LONG DIRECTION	SHORT DIRECTION
CF3.0	3' - 0"	2' - 0"	(3) #5	-

NOTES:

1. TOP OF INTERIOR FOOTING EL (+99' - 4") UNO. TOP OF EXTERIOR PILE CAP AND CONTINUOUS FOOTINGS EL (+96' - 0") UNO. REFER TO S201 FOR DETAILS.
2. TOP OF FOUNDATION WALL EL (+100' - 8") UNO.
3. TOP OF PIER EL (+99' - 0") UNO. REFER TO S201 FOR DETAILS.
4. REFER TO S301 FOR BASE PLATE DETAILS.
5. PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
7. HELICAL PILE (HP) DESIGN SHALL MEET THE SPECIFIED LOADING AS SHOWN ON PLAN. FOR BIDDING PURPOSES, HP QUANTITY SHALL BE AS SHOWN ON PLAN AND DEPTH SHALL BE 25-FEET BELOW THE BOTTOM OF FOUNDATION ELEVATION. CONTINUOUS FOOTINGS DESIGNED FOR MAX HP SPACING OF 6'-0" OC, STAGGERED ALONG LENGTH OF FOOTING. CONTACT AJE IF MODIFICATIONS TO FOOTING SIZES AER REQUIRED.

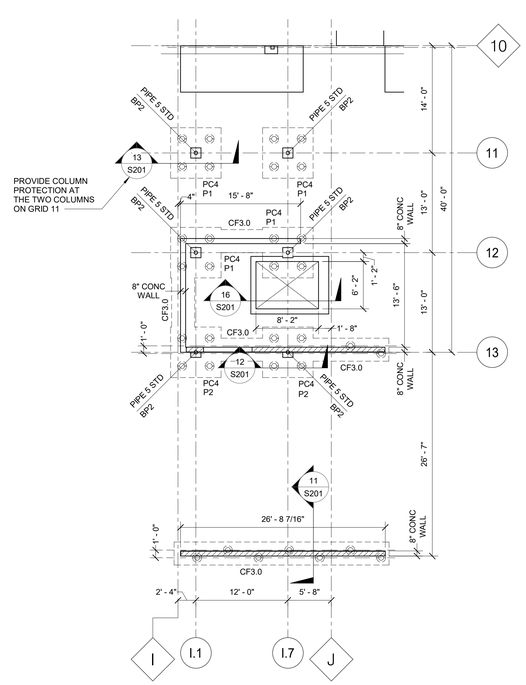
KEYNOTES: (#)

1. 4" CONCRETE SLAB ON GRADE WITH 6x6 - W2.1xW2.1 WWR. TOP OF SLAB EL (+99' - 4").
2. 2" SAWCUT JOINT AROUND COOLER.
3. 12" THICK ISOLATED PAD FOR WATER HARVESTING SYSTEM. T.O. SLAB ELEVATION (+100' - 6"). COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT SUPPLIER OR OWNER.
4. DOWEL HORIZONTAL WALL REINFORCING INTO EXISTING CONCRETE 4" WITH ADHESIVE PER S001.
5. AT GLAZING: SAWCUT EXISTING CONCRETE WALL DOWN TO (+100' - 8"). AT DOORS: SAWCUT EXISTING CONCRETE WALL DOWN TO (+99' - 4").
6. EXISTING FLOOR TRENCH FILLED WITH CONCRETE: GRIND DOWN EXISTING CONCRETE 2" AND POUR NEW CONCRETE TOPPING WITH FIBER REINFORCING.
7. 6" HOUSEKEEPING PAD WITH 6x6 - W2.1xW2.1 WWR. TOP OF SLAB EL (+100' - 6"). REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
8. CONCRETE CURB PER 10/S201. EXTEND HSS COLUMN DOWN TO T.O. (E) FOUNDATION WALL (+99' - 6", VIF) AND ENCASE IN CONCRETE CURB.
9. EXISTING CATCH BASIN FILLED WITH GRAVEL WITH CONCRETE CAP. CONTRACTOR OPTION TO GRIND DOWN EXISTING CONCRETE 2" AND POUR NEW CONCRETE TOPPING WITH FIBER REINFORCING OR DEMO EXISTING CAP AND POUR NEW CONCRETE CAP WITH FIBER REINFORCING.
10. FLOOR TROUGH - COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH FOOD SERVICE EQUIPMENT SUPPLIER. SEE 3/S101S.



3 TROUGH DETAIL

3/4" = 1'-0"



2 CANOPY FOUNDATION PLAN

1/8" = 1'-0"

PLAN NORTH

Architecture and Interiors

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MADISON PUBLIC MARKET

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Project No: 20190606.00

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WISCONSIN — ABBY A. PERTZBORN — E-38745 — MADISON WI — PROFESSIONAL ENGINEER — STRUCTURAL

5/25/2022

Print Name Abby Pertzborn

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FOUNDATION PLAN - SOUTH

S101S

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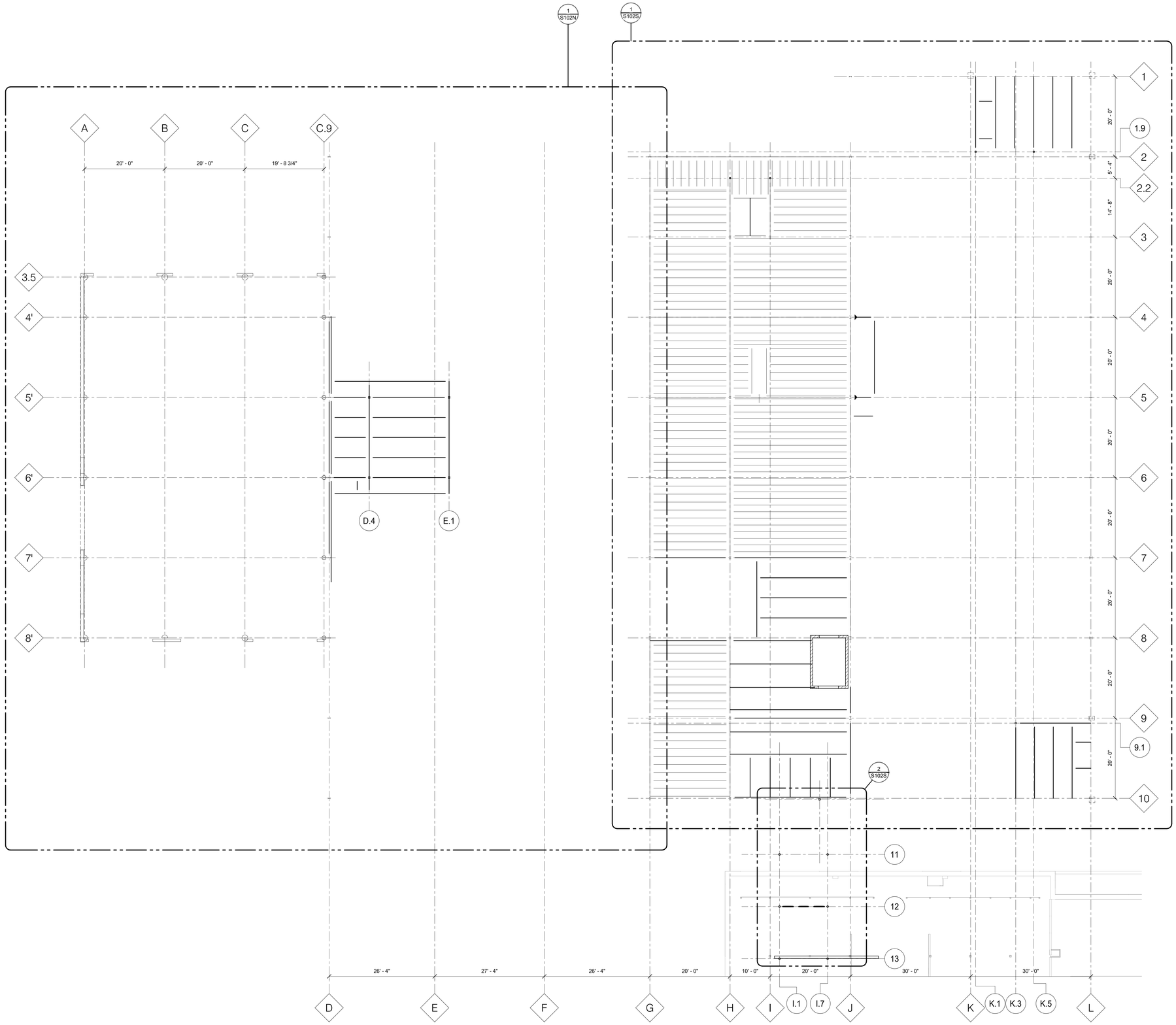

1 PLAN NORTH

OVERALL MEZZANINE FRAMING PLAN

1" = 10'-0"

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Project No. 2019006.00

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WI
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OVERALL MEZZANINE FRAMING PLAN

S102

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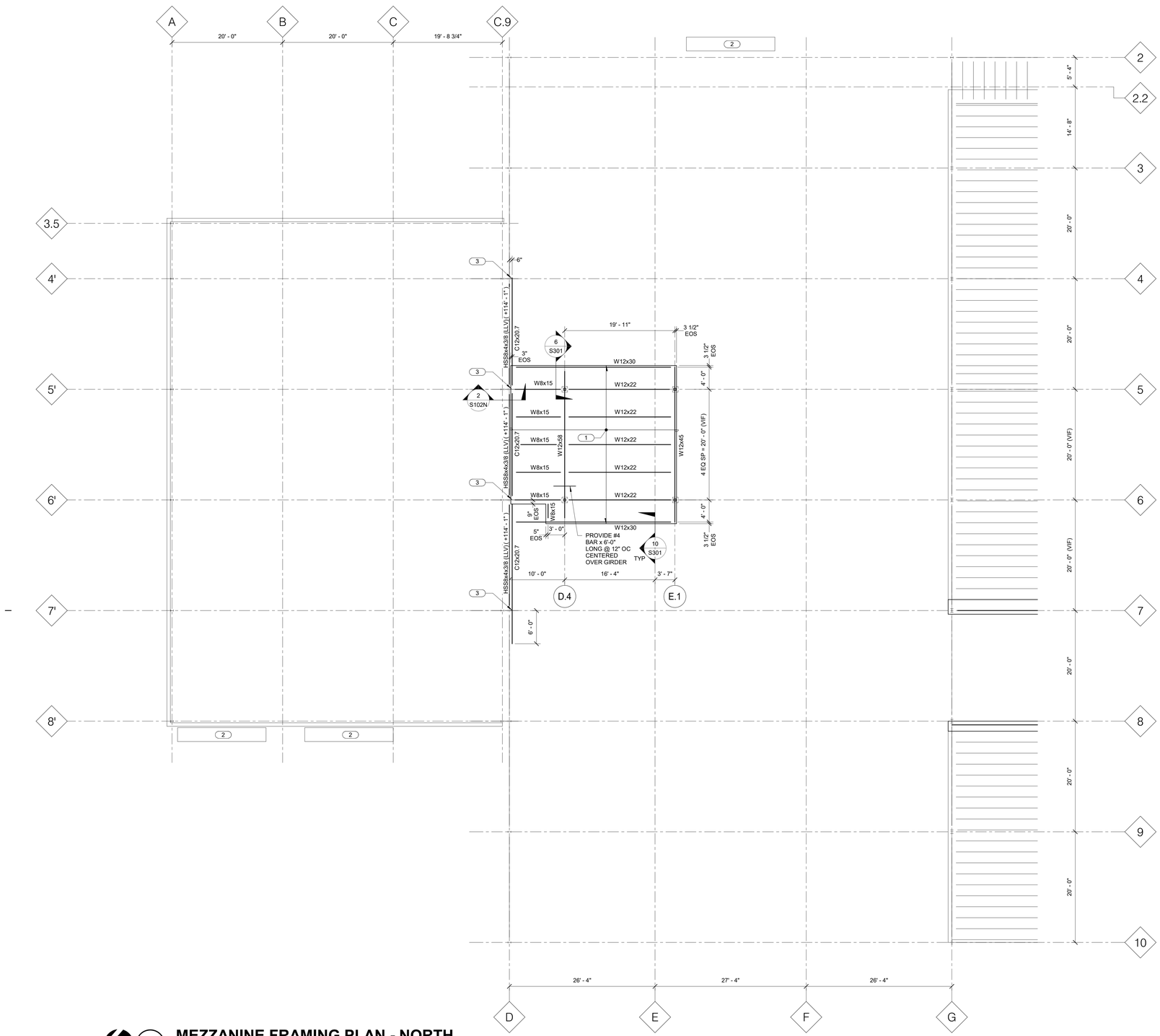
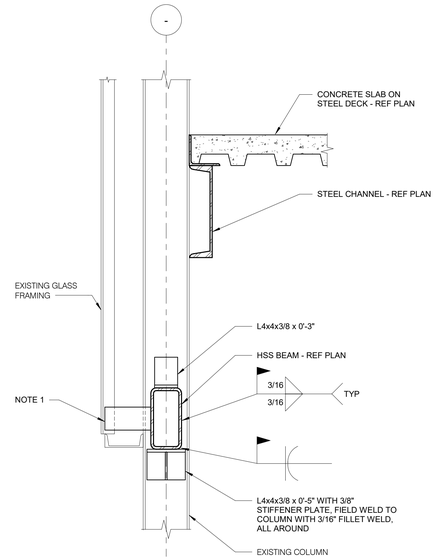


1 MEZZANINE FRAMING PLAN - NORTH

1/8" = 1'-0"

PLAN NORTH



2 STEEL CONNECTION DETAIL

1 1/2" = 1'-0"

NOTES:

1. EXTENT OF GLASS WALL SUPPORT TO BE FIELD VERIFIED. PROVIDE 1/4" PLATE CONNECTORS BACK TO HSS BEAM AT VERTICAL MULLIONS.

NOTES:

1. REFER TO S301 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
2. PROVIDE ANGLE FRAMING AROUND OPENINGS PER 11/S301.
3. BRACE NON-STRUCTURAL MASONRY PARTITIONS PER 7/S302.
4. REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.

KEYNOTES: (#)

1. 2" NORMAL CONCRETE ON 2" (20 GA) COMPOSITE STEEL DECK, 2 SPAN MINIMUM, WITH 6x6 - W1.4xW1.4 WWR. TOTAL SLAB THICKNESS = 4". TOP OF SLAB EL = (+110'-4")
2. AIR CURTAIN: REFER TO 13/S302 FOR ATTACHMENT DETAIL. FIELD VERIFY EXISTING JAMBS ARE GROUTED SOLID. IF NOT, GROUT JAMBS SOLID, FULL HEIGHT.
3. FIELD WELD KNIFE PLATE SHEAR CONNECTION TO EXISTING COLUMN, REFER TO 8/S301.

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MEZZANINE FRAMING PLAN - NORTH

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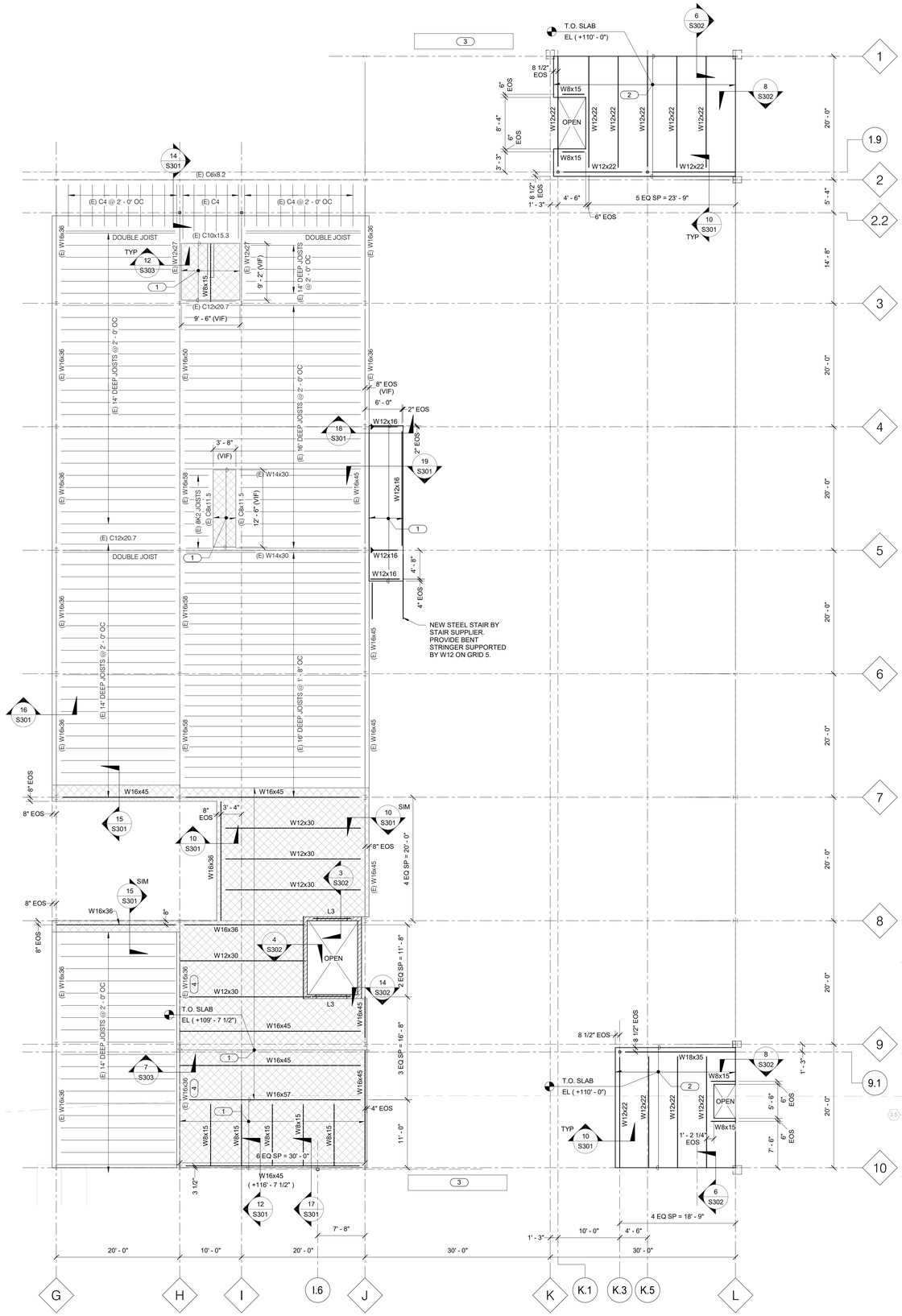

1 MEZZANINE FRAMING PLAN - SOUTH

1/8" = 1'-0"

PLAN NORTH

2 TRASH ENCLOSURE PLAN

1/8" = 1'-0"

NORTH

3 BRACE FRAME ELEVATION (BF1)

1/4" = 1'-0"

NOTES:

1. REFER TO PLAN FOR TOP OF SLAB ELEVATIONS.
2. REFER TO S301 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
3. PROVIDE ANGLE FRAMING AROUND OPENINGS PER 9/S301.
4. ELEVATOR MASONRY WALLS:
   8" CMU WITH #5 VERTICAL BARS AT 24" OC AND HORIZONTAL JOINT REINFORCING AT 16" OC.
   FULLY GROUT NORTH AND SOUTH WALLS FOR RAIL ATTACHMENT.
   TRASH ENCLOSURE MASONRY WALLS:
   8" CMU WITH #5 VERTICAL BARS AT 16" OC AND HORIZONTAL JOINT REINFORCING AT 16" OC.
5. REFER TO S103N FOR LINTELS IN STRUCTURAL MASONRY WALLS AND GENERAL NOTES FOR NON-STRUCTURAL WALLS.
6. BRACE NON-STRUCTURAL MASONRY PARTITIONS PER 7/S302.
7. REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.

KEYNOTES: (#)

1. 3" NORMAL CONCRETE ON 2" (20 GA) COMPOSITE STEEL DECK, 2 SPAN MINIMUM, WITH 6x6 - W1.4xW1.4 WWR. TOTAL SLAB THICKNESS = 5".
2. 2" NORMAL CONCRETE ON 2" (20 GA) COMPOSITE STEEL DECK, 2 SPAN MINIMUM, WITH 6x6 - W1.4xW1.4 WWR. TOTAL SLAB THICKNESS = 4".
3. AIR CURTAIN: REFER TO 13/S302 FOR ATTACHMENT DETAIL. FIELD VERIFY EXISTING JAMBS ARE GROUTED SOLID. IF NOT, GROUT JAMBS SOLID, FULL HEIGHT.
4. REINFORCE EXISTING STEEL BEAM PER 7/S303 AND PROVIDE BEARING SEAT AT EACH END PER 10/S303.

Architecture and Interiors

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Commercial Kitchen Design

Boelter Premier
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Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190005.00

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Seal

WISCONSIN
ABBY A. PERTZBORN
E-38715
MADISON
WI
PROFESSIONAL ENGINEER
6/25/2022
STRUCTURAL

Print Name Abby Pertzborn

Date 05.27.2022 **License No** 38745-6

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MEZZANINE FRAMING PLAN - SOUTH

S102S

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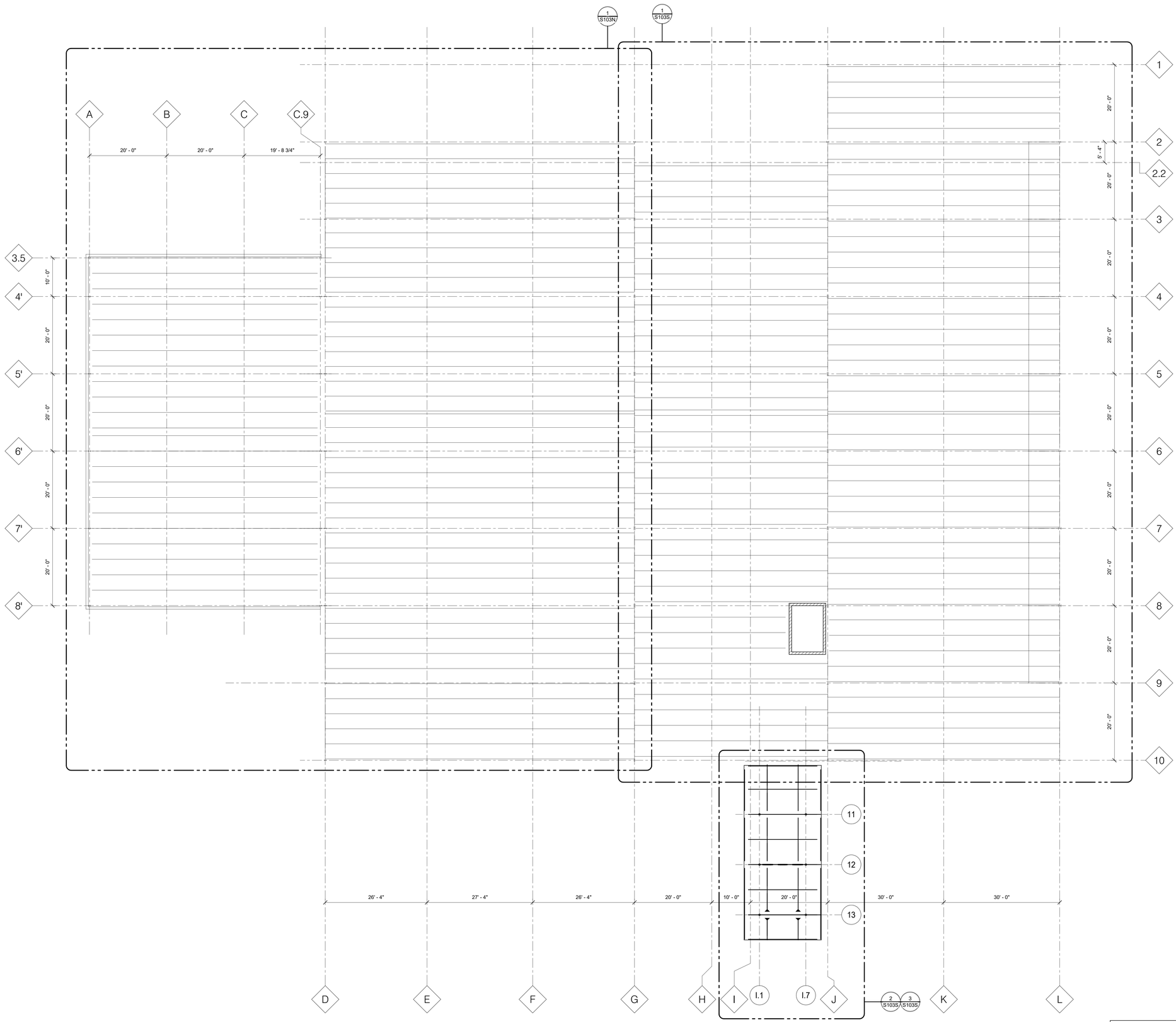

1 **OVERALL ROOF FRAMING PLAN**
1" = 10'-0"
PLAN NORTH

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

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Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Fire Protection Engineering, Technology and AV

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1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

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Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 20190606.00

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

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5/25/2022
STRUCTURAL

Print Name Abby Pertzborn

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OVERALL ROOF FRAMING PLAN

S103

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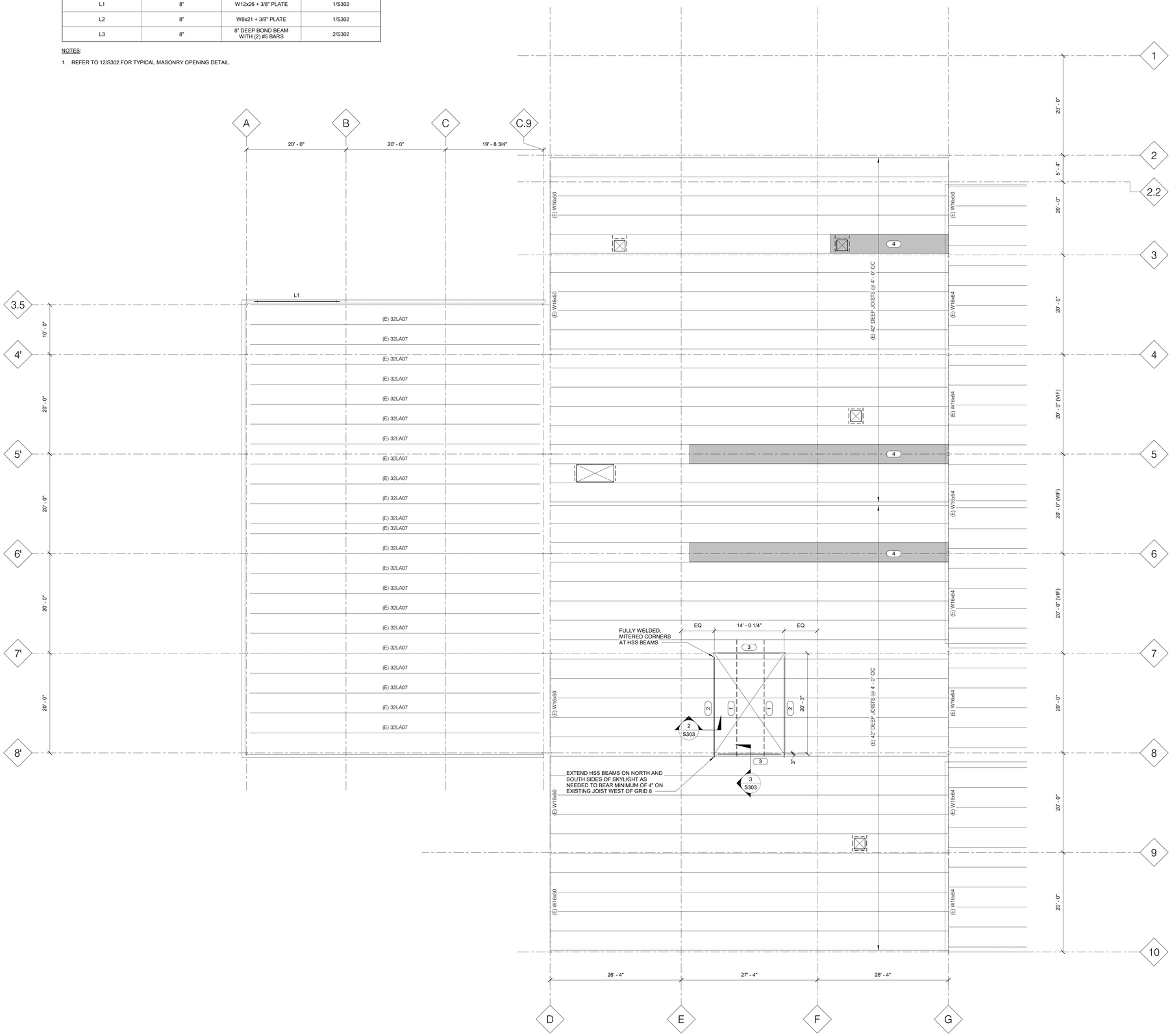
MASONRY LINTEL SCHEDULE			
MARK	BEARING EACH END	MEMBER SIZE	REFERENCE DETAIL
L1	8"	W12x26 + 3/8" PLATE	1/S302
L2	8"	W8x21 + 3/8" PLATE	1/S302
L3	8"	8" DEEP BOND BEAM WITH (2) #5 BARS	2/S302

NOTES:

1. REFER TO 12/S302 FOR TYPICAL MASONRY OPENING DETAIL.



1 **ROOF FRAMING PLAN - NORTH**
1/8" = 1'-0"
PLAN NORTH

NOTES:

1. PROVIDE ANGLE FRAMING AROUND OPENINGS PER 11/S301.
2. REFER TO S103N FOR LINTELS IN STRUCTURAL MASONRY WALLS AND GENERAL NOTES FOR NON-STRUCTURAL WALLS.
3. BRACE NON-STRUCTURAL MASONRY PARTITIONS PER 7/302.
4. REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE
5. EXISTING ROOF FRAMING ANALYZED FOR PV ARRAY AND IS CAPABLE OF SUPPORTING AN ARRAY WITH A MAXIMUM LOAD OF 5 PSF.

KEYNOTES: (#)

1. PROVIDE L3x3x1/4 BRACING AT EACH JOIST VERTICAL WEB MEMBER.
2. HSS20x4x1/4 + WT4x7.5 FOR SKYLIGHT ATTACHMENT. REINFORCE EXISTING JOISTS PER 9/S303 AS REQUIRED.
3. HSS20x4x1/4 AT SKYLIGHT.
4. REMOVE EXISTING BRIDGING AND REINSTALL HORIZONTAL BRIDGING AS REQUIRED FOR DUCTWORK ROUTING AND INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR.

Architecture and Interiors
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MADISON PUBLIC MARKET

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Project No. 2018006.00

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5/25/2022

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ROOF FRAMING PLAN - NORTH

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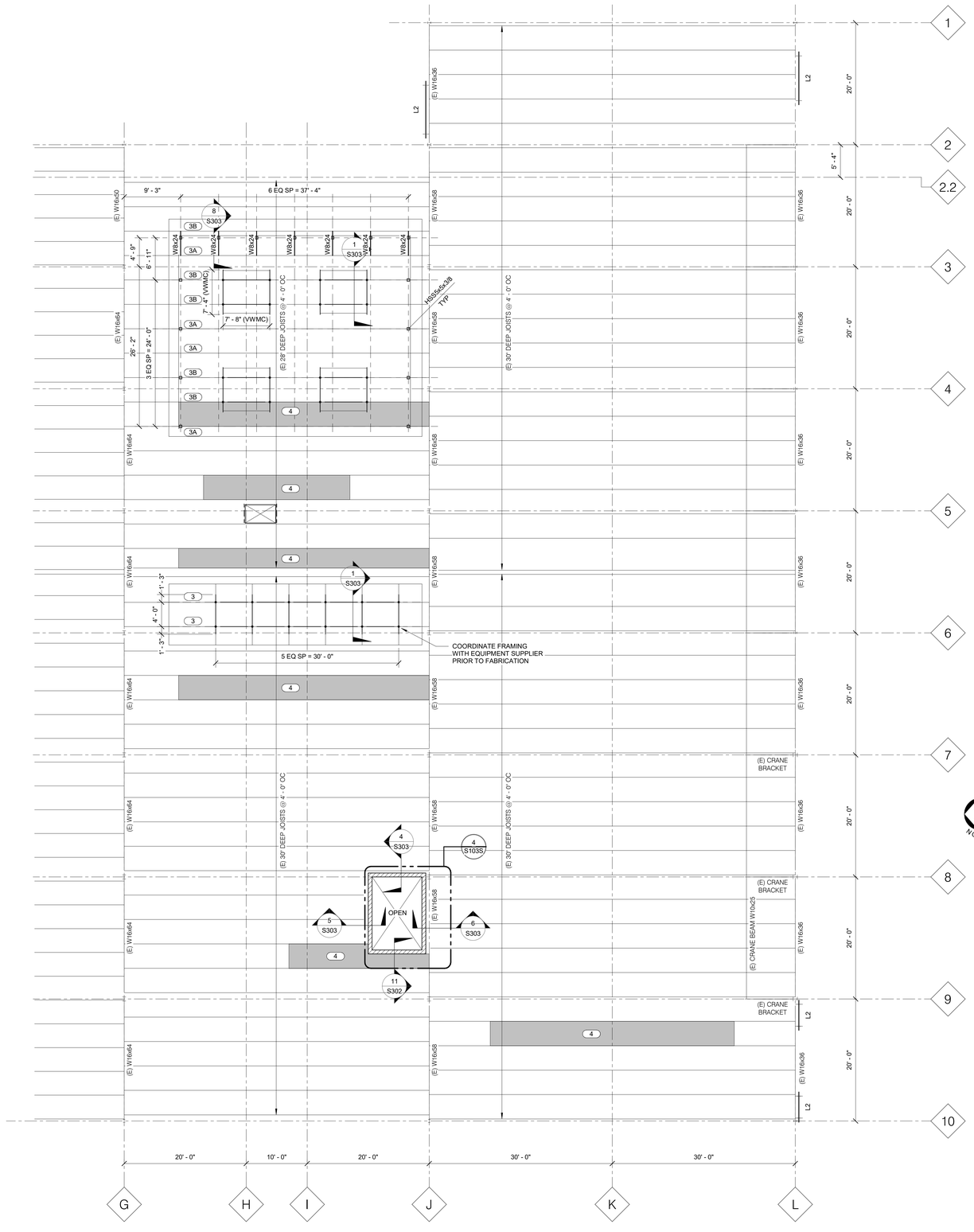
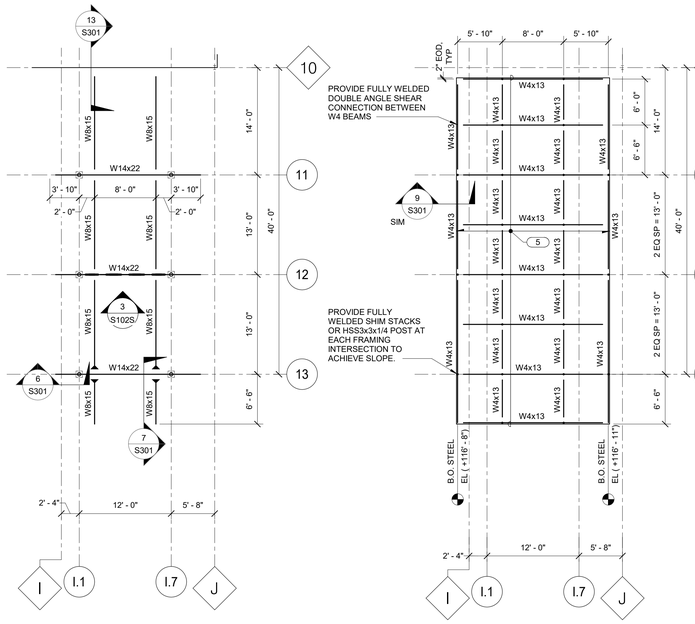


ROOF FRAMING PLAN - SOUTH

1/8" = 1'-0"

PLAN NORTH

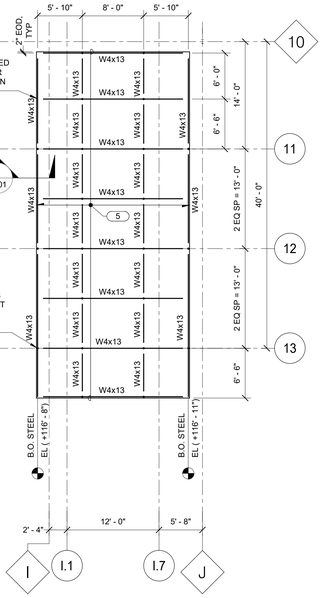


CANOPY FRAMING PLAN

1/8" = 1'-0"

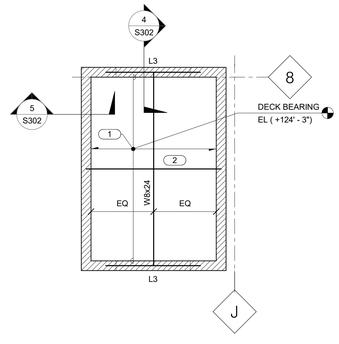
NOTES:

1. T.O STEEL ELEVATION (+116' - 8").



CANOPY FRAMING PLAN

1/8" = 1'-0"



ELEVATOR OVER-RUN ROOF FRAMING PLAN

1/4" = 1'-0"

NOTES:

1. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. REFER TO S301 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
3. PROVIDE ANGLE FRAMING AROUND OPENINGS PER 11/S301.
4. REFER TO S103N FOR LINTELS IN STRUCTURAL MASONRY WALLS AND GENERAL NOTES FOR LINTELS IN NON-STRUCTURAL WALLS.
5. BRACE NON-STRUCTURAL MASONRY PARTITIONS PER 7/S302.
6. REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
7. EXISTING ROOF FRAMING ANALYZED FOR PV ARRAY AND IS CAPABLE OF SUPPORTING AN ARRAY WITH A MAXIMUM LOAD OF 5 PSF.

KEYNOTES: (#)

1. 1 1/2" (20 GA) TYPE B STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS.
2. W8x24 HOIST BEAM. VERIFY HOIST BEAM ELEVATION WITH ELEVATOR MANUFACTURER.
3. REINFORCE EXISTING JOISTS PER 10/S303.
4. REMOVE EXISTING BRIDGING AND REINSTALL HORIZONTAL BRIDGING AS REQUIRED FOR DUCTWORK ROUTING AND INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR.
5. 1 1/2" (18 GA) TYPE B STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (2) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS.

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6/25/2022
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ROOF FRAMING PLAN - SOUTH

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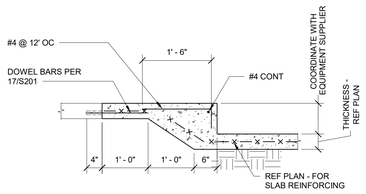
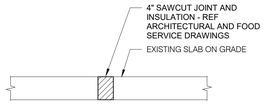


1 TYPICAL DEPRESSED SLAB

3/4" = 1'-0"

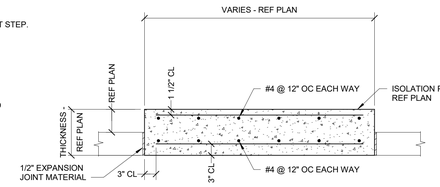
NOTES:

1. CONTRACTOR OPTION TO PROVIDE CONSTRUCTION JOINT AT STEP.



2 SAWCUT JOINT DETAIL

3/4" = 1'-0"

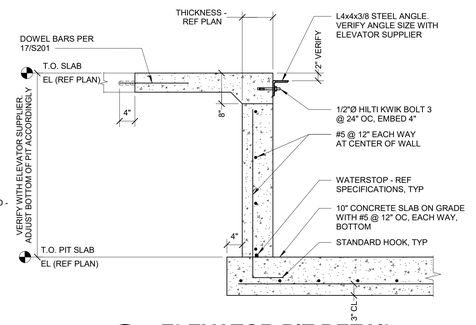


3 TYPICAL ISOLATION PAD

3/4" = 1'-0"

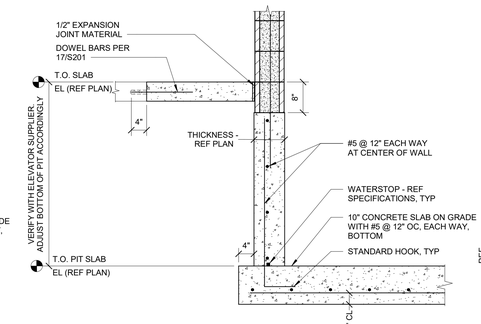
NOTES:

1. REF ARCHITECTURAL DWGS FOR LOCATION AND PAD DIMENSIONS.



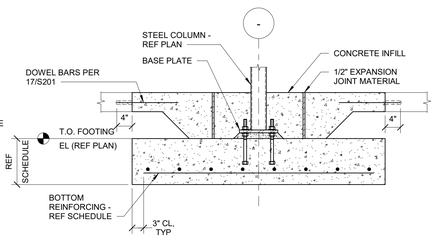
4 ELEVATOR PIT DETAIL

3/4" = 1'-0"



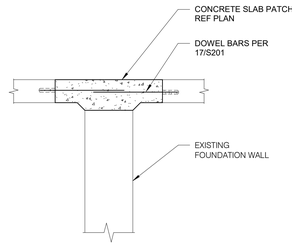
5 ELEVATOR PIT DETAIL

3/4" = 1'-0"



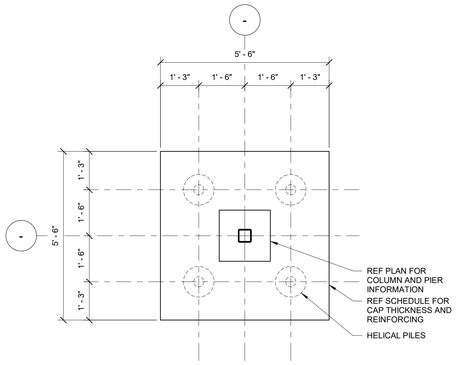
6 TYPICAL SPREAD FOOTING DETAIL

3/4" = 1'-0"



7 SLAB PATCH AT EXISTING WALL

3/4" = 1'-0"

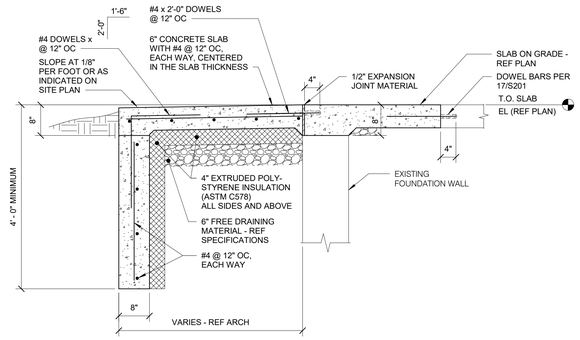


8 PILE CAP (PC4) DETAIL

1/2" = 1'-0"

NOTES:

1. UNLESS NOTED OTHERWISE, CAP CENTERLINE AND COLUMN GRID LOCATIONS COINCIDE.

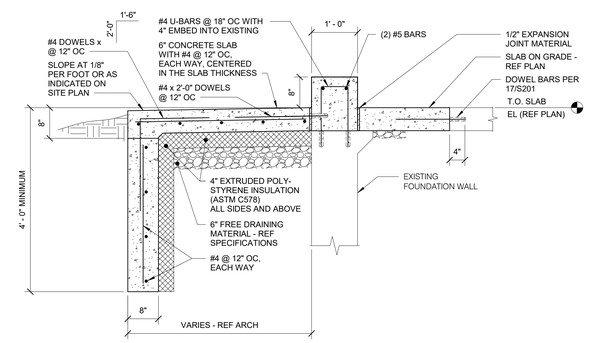


9 STOOP SECTION AT EXISTING

3/4" = 1'-0"

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.
2. AT SIM: STOOP WALLS NOT REQUIRED.

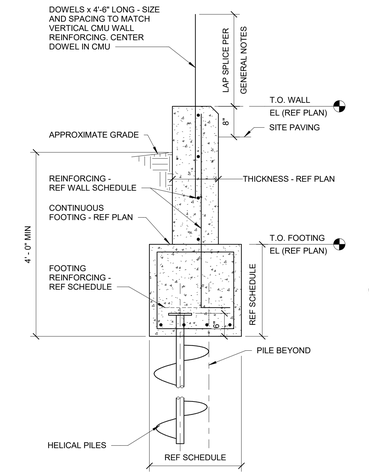


10 CONCRETE CURB DETAIL

3/4" = 1'-0"

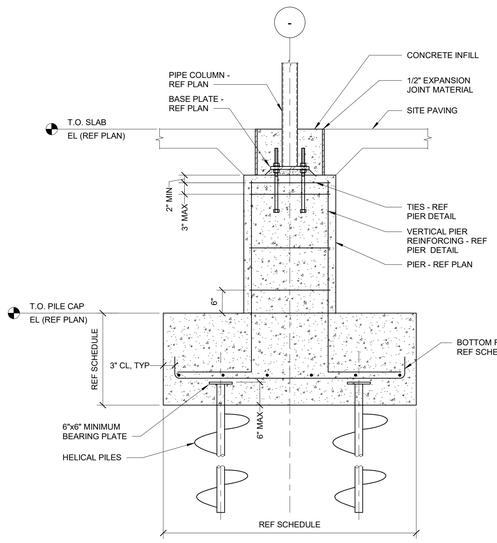
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.
2. AT SIM: NO STOOP AT CURB.



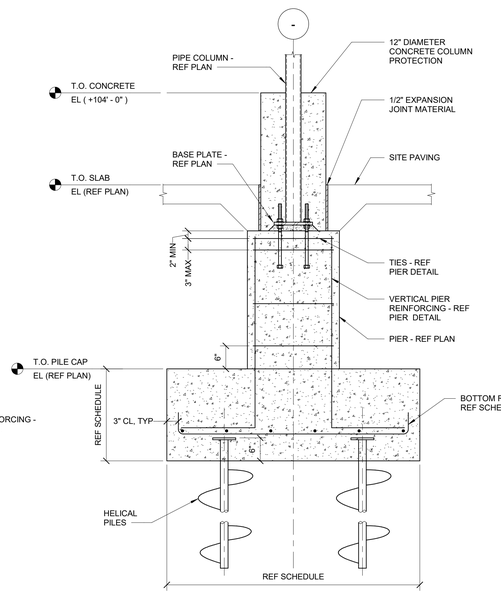
11 TYPICAL FOUNDATION WALL

3/4" = 1'-0"



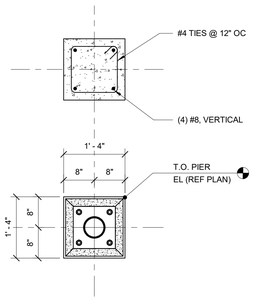
12 TYPICAL PILE CAP WITH PIER

3/4" = 1'-0"



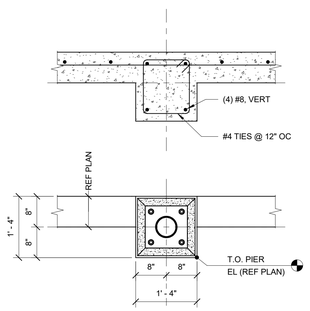
13 TYPICAL PILE CAP WITH PIER

3/4" = 1'-0"



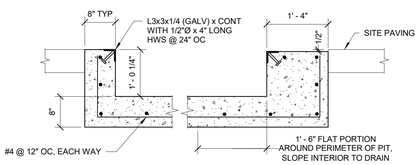
14 PIER (P1) DETAIL

3/4" = 1'-0"



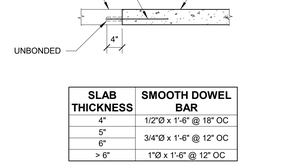
15 PIER (P2) DETAIL

3/4" = 1'-0"



16 LIFT PIT SECTION

3/4" = 1'-0"



SLAB THICKNESS	SMOOTH DOWEL BAR
4"	1/2"Ø x 1'-6" @ 18" OC
5"	3/4"Ø x 1'-6" @ 12" OC
6"	1"Ø x 1'-6" @ 12" OC
> 6"	

17 NEW TO EXISTING SLAB DETAIL

3/4" = 1'-0"

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WISCONSIN ABBY A. PERTZBORN E-38745 MADISON WI PROFESSIONAL ENGINEER
6/25/2022

Print Name Abby Pertzborn

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FOUNDATION DETAILS

S201

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www.imegcorp.com

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0 1 2 3
REF. SCALE IN INCHES PROJECT #190005O7.00

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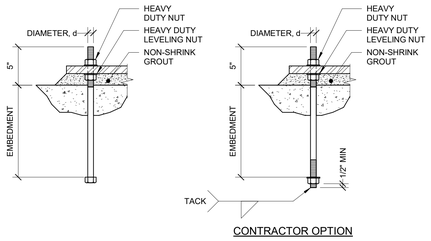


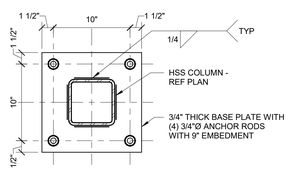
CONTRACTOR OPTION

1 TYPICAL ANCHOR ROD

1 1/2" = 1'-0"

NOTES:

1. REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
2. REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
3. ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
4. PROTECT ANCHOR RODS FROM DAMAGE.
5. ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
   - A. 1/8" CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
   - B. 1/4" CENTER TO CENTER OF ADJACENT ANCHOR ROD GROUPS.
   - C. ELEVATION OF THE TOP OF ANCHOR RODS ± 1/2".
   - D. MAXIMUM ACCUMULATION OF 1/4" PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
   - E. 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
   - F. REFERENCE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.
6. SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE, UNLESS NOTED OTHERWISE.
7. PROVIDE 1 1/2" NON-SHRINK GROUT AT ALL BASE PLATES.

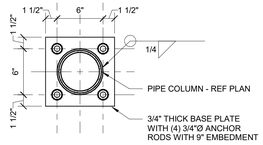


2 BASE PLATE (BP1) DETAIL

1 1/2" = 1'-0"

NOTES:

1. REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.
2. NO WELDS REQUIRED AT RADIUSES.

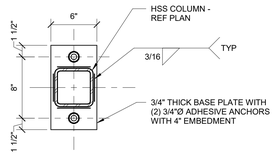


3 BASE PLATE (BP2) DETAIL

1 1/2" = 1'-0"

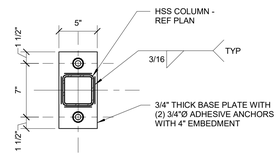
NOTES:

1. REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.



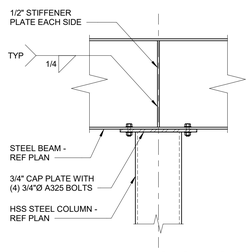
4 BASE PLATE (BP3) DETAIL

1 1/2" = 1'-0"



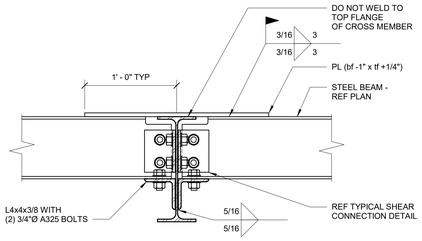
5 BASE PLATE (BP4) DETAIL

1 1/2" = 1'-0"



6 BEAM BEARING ON COLUMN

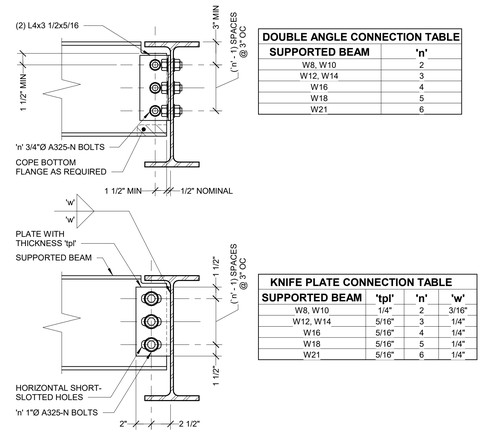
3/4" = 1'-0"



BEAM THROUGH BEAM MOMENT CONNECTION DETAIL

7

1 1/2" = 1'-0"



DOUBLE ANGLE CONNECTION TABLE	
SUPPORTED BEAM	'n'
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6

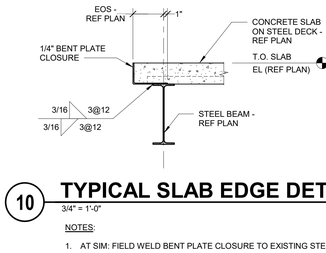
KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tpl'	'n'	'w'
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	5/16"	4	1/4"
W18	5/16"	5	1/4"
W21	5/16"	6	1/4"

8 TYPICAL SHEAR CONNECTION

1 1/2" = 1'-0"

NOTES:

1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
2. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
3. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
4. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
5. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.

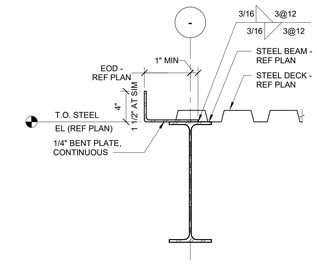


10 TYPICAL SLAB EDGE DETAIL

3/4" = 1'-0"

NOTES:

1. AT SIM: FIELD WELD BENT PLATE CLOSURE TO EXISTING STEEL BEAM.

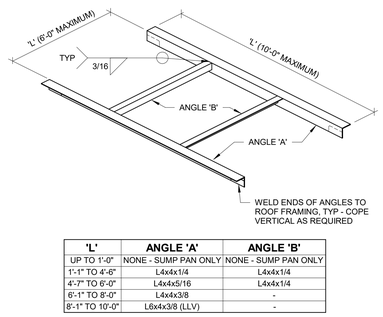


9 TYPICAL CLOSURE PLATE DETAIL

1 1/2" = 1'-0"

NOTES:

1. REFER TO PLAN FOR DECK ORIENTATION.



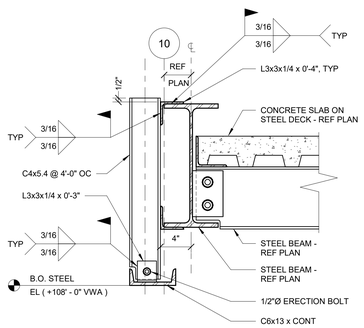
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE - SUMP PAN ONLY	NONE - SUMP PAN ONLY
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

11 DECK OPENING FRAMING DETAIL

3/4" = 1'-0"

NOTES:

1. USE ABOVE FRAMING AT ALL OPENINGS EXCEEDING 1'-0" UNO.
2. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
3. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

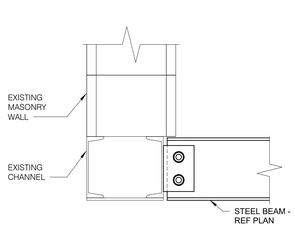


12 STEEL CONNECTION DETAIL

1 1/2" = 1'-0"

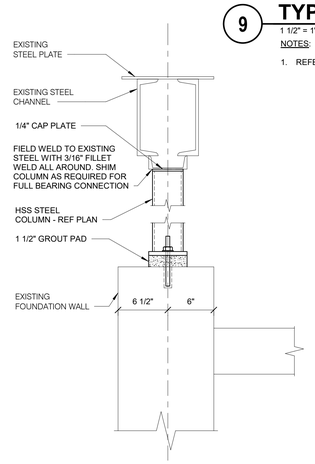
NOTES:

1. SHIM AS REQUIRED TO LEVEL GIRT FRAMING.



13 DETAIL

1 1/2" = 1'-0"



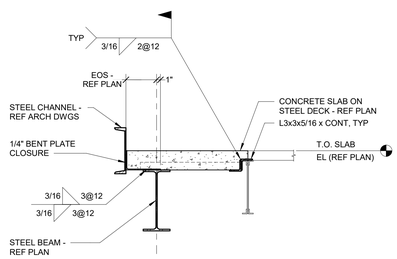
COLUMN REPLACEMENT DETAIL

14

1 1/2" = 1'-0"

NOTES:

1. SHORE LINTEL BEFORE DEMO OF EXISTING CONCRETE AND STEEL COLUMN.

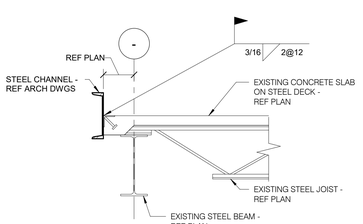


15 EXISTING DETAIL

3/4" = 1'-0"

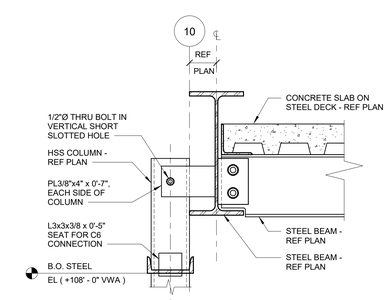
NOTES:

1. AT SIM: NO EDGE CHANNEL.
2. FIELD WELD EXISTING DECK BACK TO JOIST AFTER ANGLE SUPPORT INSTALLATION.



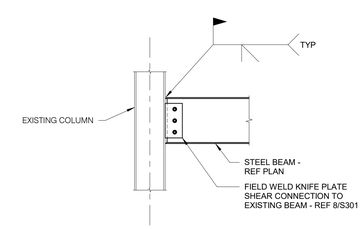
16 EXISTING DETAIL

3/4" = 1'-0"



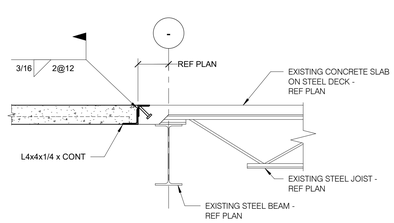
17 STEEL CONNECTION DETAIL

1 1/2" = 1'-0"



18 MOMENT CONNECTION DETAIL

3/4" = 1'-0"



19 EXISTING DETAIL

3/4" = 1'-0"

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Landscape Architect

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Structural Engineering, Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190005.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal

WISCONSIN
ABBY A. PERTZBORN
E-38745
MADISON
WI
PROFESSIONAL ENGINEER
6/25/2022
STRUCTURAL

Print Name Abby Pertzborn

Date 05.27.2022 **License No** 38745-6

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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FRAMING DETAILS

S301

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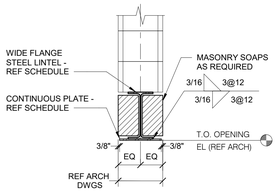
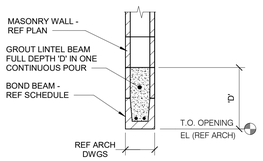


1 LINTEL DETAIL

3/4" = 1'-0"

NOTES:

1. EXISTING MASONRY WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.

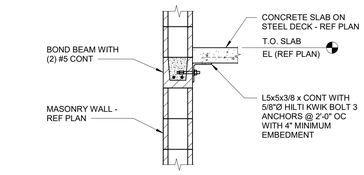


2 LINTEL DETAIL

3/4" = 1'-0"

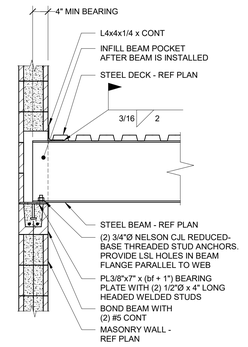
NOTES:

1. SHORE MASONRY UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.



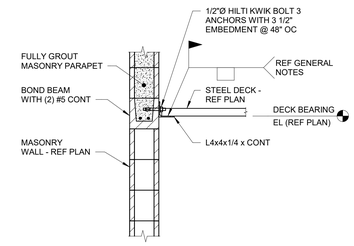
3 TYPICAL DECK SUPPORT AT MASONRY

3/4" = 1'-0"



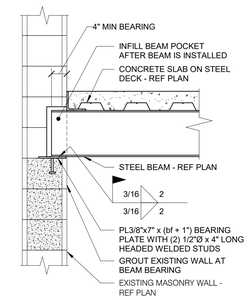
4 TYPICAL BEAM BEARING ON MASONRY

3/4" = 1'-0"



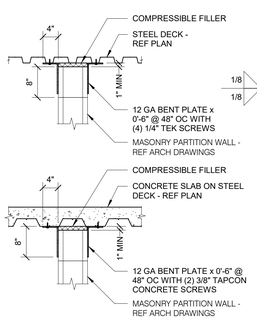
5 ROOF DECK SUPPORT AT MASONRY

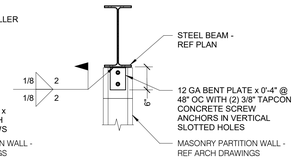
3/4" = 1'-0"



6 TYPICAL BEAM BEARING ON EXISTING MASONRY

3/4" = 1'-0"



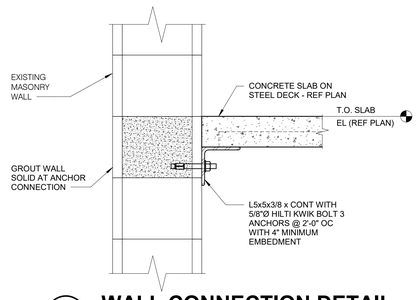


7 MASONRY PARTITION WALL AT STEEL DECK

3/4" = 1'-0"

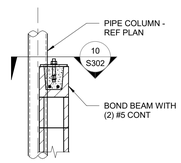
NOTES:

1. PROVIDE THE BENT PLATE CLIP ANGLES ON ALL INTERIOR NON-LOAD BEARING MASONRY PARTITION WALLS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY PARTITION WALLS.
2. BENT PLATE CLIPS MAY BE ELIMINATED IF ALL THE FOLLOWING CONDITIONS ARE MET.
   A. LENGTH OF WALL BETWEEN PERPENDICULAR INTERSECTING WALLS IS LESS THAN THE FOLLOWING:
      a. 15'-0" FOR 6" MASONRY
      b. 20'-0" FOR 8" MASONRY
      c. 22'-0" FOR 10" MASONRY
      d. 25'-0" FOR 12" MASONRY
   B. WALL AND INTERSECTION HAVE PROPERLY INSTALLED (9 GA) TRUSS TYPE HORIZONTAL JOINT REINFORCING @ 16" OC.



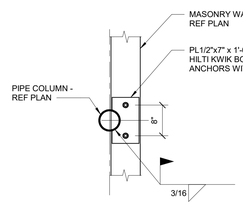
8 WALL CONNECTION DETAIL

1 1/2" = 1'-0"



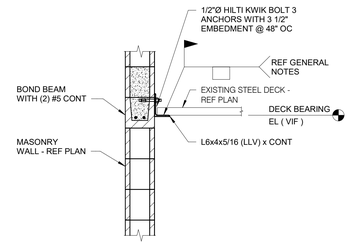
9 COLUMN BRACING DETAIL

3/4" = 1'-0"



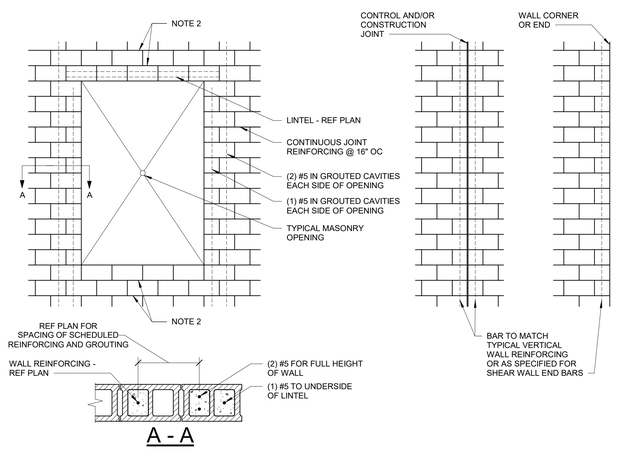
10 COLUMN BRACING DETAIL

3/4" = 1'-0"



11 EXISTING ROOF DECK SUPPORT AT MASONRY

3/4" = 1'-0"

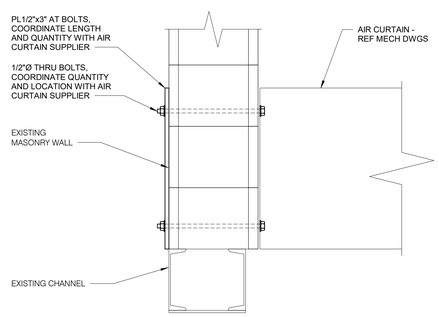


12 TYPICAL MASONRY WALL DETAIL

3/4" = 1'-0"

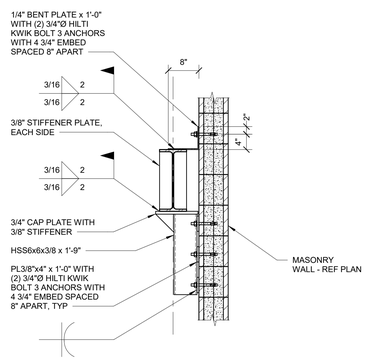
NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS FOR MASONRY CONTROL JOINT LOCATIONS.
2. TWO COURSES OF JOINT REINFORCING ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL AND SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE OPENING.



13 AIR CURTAIN SUPPORT DETAIL

1 1/2" = 1'-0"



14 BEAM CONNECTION DETAIL

3/4" = 1'-0"

Architecture and Interiors

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Civil Engineer

Vierbicher
999 Fourier Dr, Suite 201,
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Landscape Architect

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Commercial Kitchen Design

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Project No: 20190606.00

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal

WISCONSIN ABBY A. PERTZBORN E-38745 MADISON WI PROFESSIONAL ENGINEER

6/25/2022

STRUCTURAL

Print Name Abby Pertzborn

Date 05.27.2022 **License No** 38745-6

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FRAMING DETAILS

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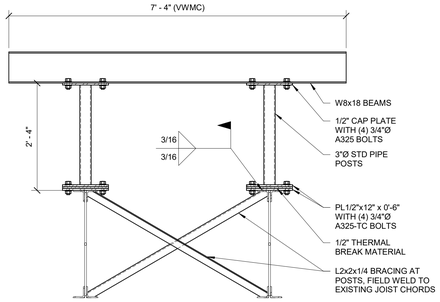
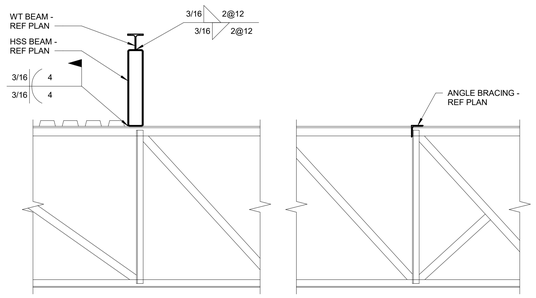


1 EQUIPMENT SUPPORT FRAMING

3/4" = 1'-0"

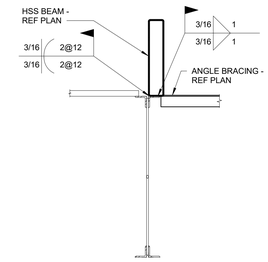
NOTES:

1. PROVIDE FULLY WELDED BEAM TO BEAM CONNECTIONS AT PERPENDICULAR FRAMING, NOT SHOWN.
2. ALL PLATFORM STEEL TO BE HOT DIP GALVANIZED.



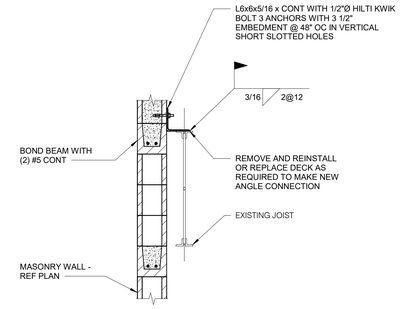
2 SKYLIGHT SUPPORT FRAMING

3/4" = 1'-0"



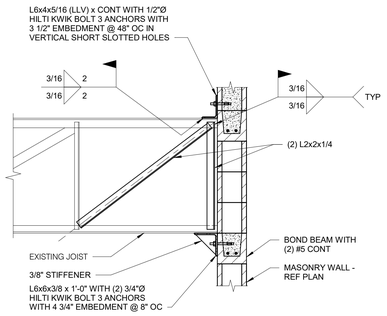
3 SKYLIGHT SUPPORT FRAMING

3/4" = 1'-0"



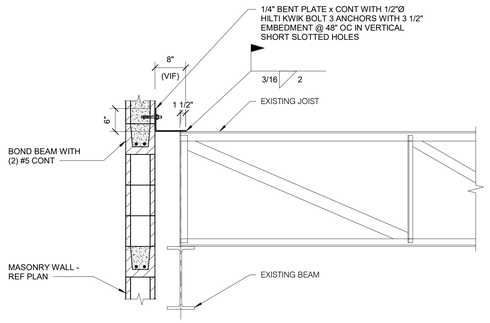
4 ROOF FRAMING DETAIL

3/4" = 1'-0"



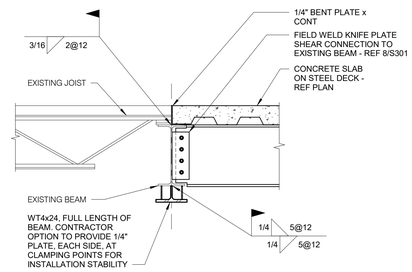
5 JOIST MODIFICATION DETAIL

3/4" = 1'-0"



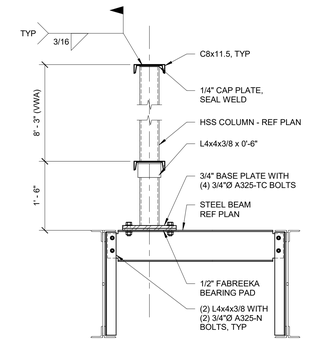
6 ROOF FRAMING DETAIL

3/4" = 1'-0"



7 FLOOR REINFORCING DETAIL

3/4" = 1'-0"

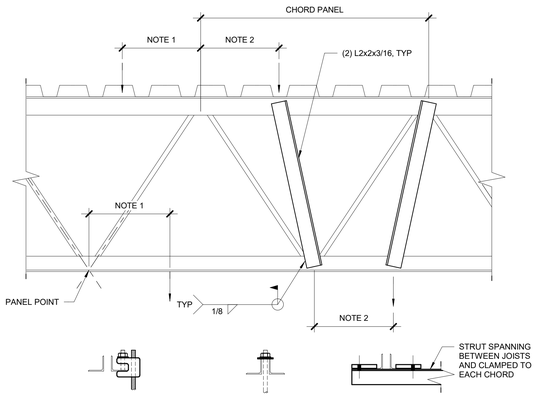


8 SCREEN WALL DETAIL

3/4" = 1'-0"

NOTE:

1. ALL SCREEN WALL STEEL TO BE HOT DIP GALVANIZED.

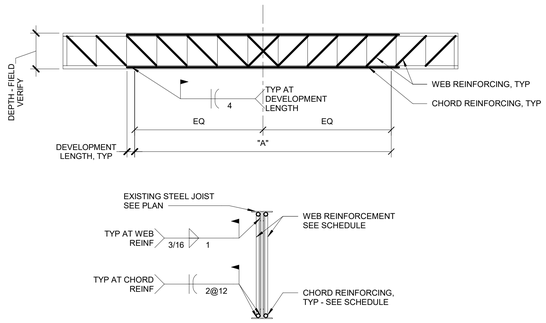


9 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"

NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAXIMUM OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAXIMUM OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAXIMUM LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.



STEEL JOIST REINFORCING SCHEDULE

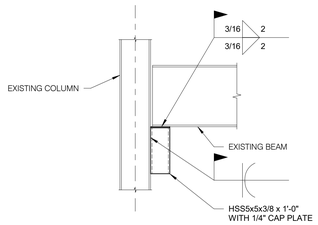
MARK	CHORD REINFORCING			WEB REINFORCING	REMARKS
	SIZE	"A"	DEVELOPMENT LENGTH	SIZE	
A	(2) 1"Ø GR50 RODS	34'-0"	1'-0"	(2) L2x2x3/16	REINFORCE WEB MEMBERS FULL LENGTH OF JOIST
B	(2) L2 1/2x2 1/2x1/4	40'-0"	1'-0"	(2) L2x2x3/16	REINFORCE WEB MEMBERS FULL LENGTH OF JOIST

10 JOIST REINFORCING DETAIL

3/4" = 1'-0"

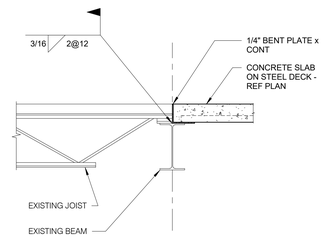
NOTES:

1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINFORCING MEMBERS.
2. JOIST REINFORCEMENT IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINFORCEMENT MUST BE INSTALLED.
3. JOIST SHALL BE SHORED.
4. SPLICE CHORD REINFORCEMENT SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.



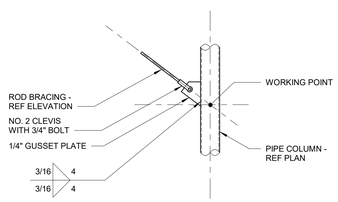
11 BEAM END REINFORCING DETAIL

3/4" = 1'-0"



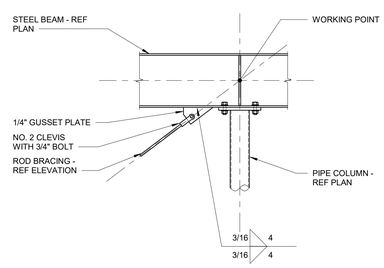
12 FLOOR INFILL DETAIL

3/4" = 1'-0"



13 BRACE DETAIL

3/4" = 1'-0"



14 BRACE DETAIL

3/4" = 1'-0"

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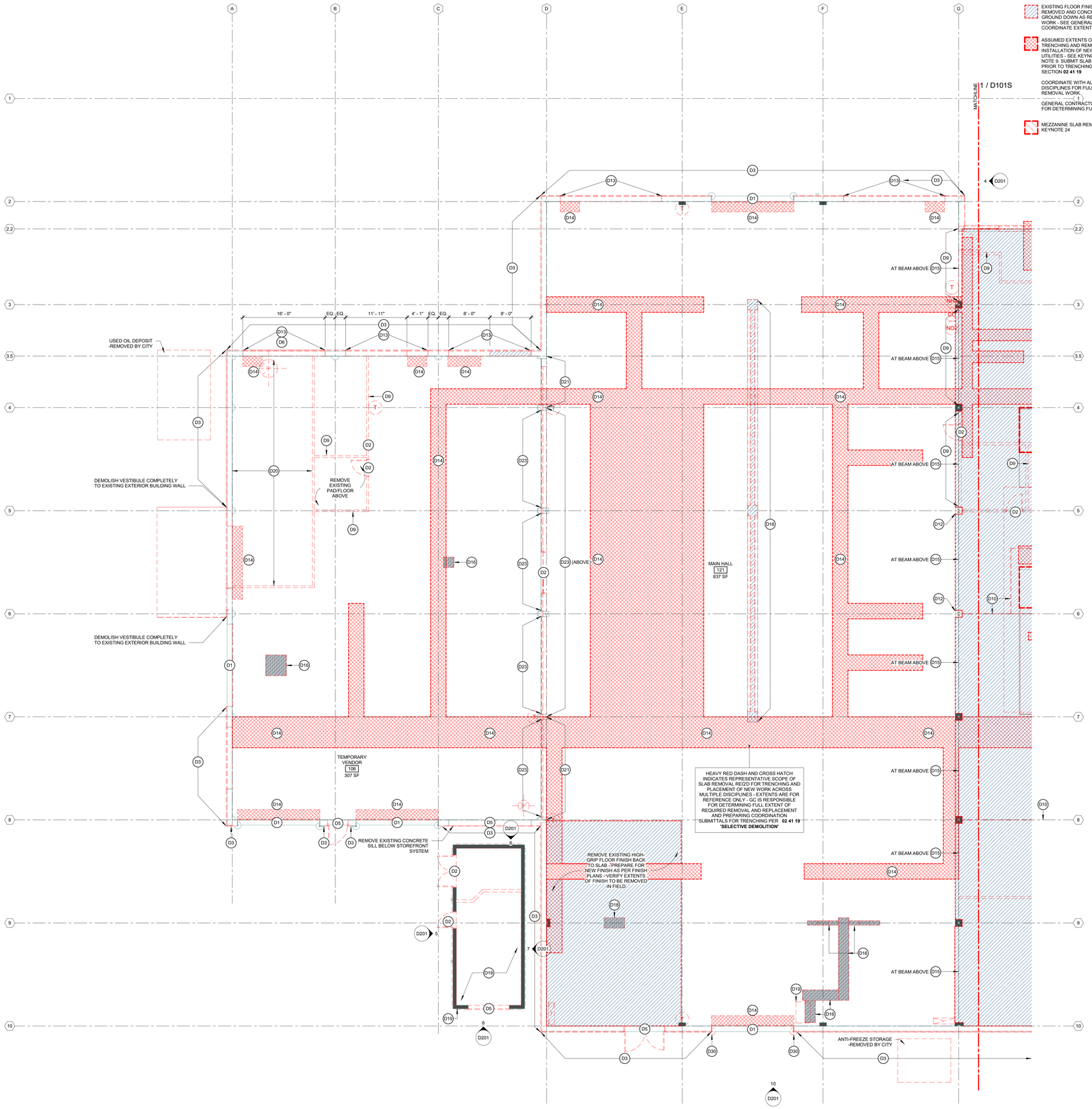

1 LEVEL 1 DEMO -- NORTH
D101N 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

EXISTING FLOOR FINISHES SHALL BE REMOVED AND CONCRETE SLAB SHALL BE GROUND DOWN AS REQ'D FOR NEW WORK - SEE GENERAL NOTES - COORDINATE EXTENTS WITH NEW WORK

ASSUMED EXTENTS OF EXISTING SLAB TRENCHING AND REMOVAL FOR INSTALLATION OF NEW BELOW SLAB UTILITIES - SEE KEYNOTE 14. GENERAL NOTE 9. SUBMIT SLAB REMOVAL PLAN PRIOR TO TRENCHING PER SPECIFICATION SECTION **02 41 19**

COORDINATE WITH ALL SHEET DISCIPLINES FOR FULL SCOPE OF REQ'D REMOVAL WORK.

GENERAL CONTRACTOR IS REPONSIBLE FOR DETERMINING FULL SCOPE OF WORK

MEZZANINE SLAB REMOVAL - SEE KEYNOTE 24

DEMOLITION GENERAL NOTES

1. ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR WORK IN THESE DOCUMENTS SHALL VISIT PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL VERIFY EXISTING CONDITIONS AND SCOPE OF WORK.

2. ALL LOOSE DEBRIS IS TO BE REMOVED BY DEMOLITION CONTRACTOR

3. NOTIFY ARCHITECT IMMEDIATLEY IF FIELD CONDITIONS ARE OTHER THAN WHAT IS SHOWN ON PLANS

4. WHERE DEMOLITION WORK ABUTTS OR INTERSCTS EXISTING CONSTRUCTION WHICH IS TO REMIN, REFER TO NEW CONSTRUCTION DOCUMENTS FOR EXTENTS OF REMOVAL. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.

5. INTERIOR SURFACE CLEANING SHALL BE PERFORMED DURING DEMOLITION PHASE OF WORK. CONTRACTOR SHALL CLEAN ALL INTERIOR SURFACES TO REMAIN (FLOORS, WALLS, ROOF DECK, STRUCTURAL FRAMING, ETC.), AS PER REQUIREMENTS OF SECTION **02 41 19 'SELECTIVE DEMOLITION'** OF THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM THIS WORK AFTER REMOVAL OF ALL ITEMS TO BE DEMOLISHED AND PRIOR TO COMMENCING NEW WORK.

6. CONTRACTOR SHALL CONDUCT CLEANING WORK DESCRIBED IN DEMOLITION GENERAL NOTE 5 IN A MANNER WHICH PRESERVES, TO ALL REASONABLE EXTENT, EXISTING INTERIOR FINISHES TO REMAIN. CONTRACTOR SHALL INSPECT RESULTS OF CLEANING WORK AND SHALL NOTIFY ARCHITECT AND OWNER OF ANY EXISTING FINISHES TO REMAIN WHICH HAVE BEEN DAMAGED.

7. COORDINATE REMOVAL OF ELEMENTS WHICH MAY CONTAIN HAZARDOUS MATERIALS - I.E. PIPE WRAP, CONTAMINATED SOILS, ETC WITH ABATEMENT CONTRACTOR. NOTIFY OWNER IMMEDIATLEY IF HAZARDOUS MATERIALS ARE ENOUNTERED. HAZARDOUS MATERIALS ABATEMENT IS NOT PART OF THE WORK SHOWN IN THESE DOCUEMNTS.

8. GENERAL LOCATIONS WHERE EXISTING EIFS FINISHES ARE REMOVED IN ENTIRETY (FOR REPLACEMENT PATCH AND REPAIR) ARE NOTED ON EXTERIOR DEMOLITION ELEVATIONS WITH KEYED NOTES. NOTIFY ARCHITECT IF REMOVAL EXTENTS MUST BE OTHER THAN WHAT IS SHOWN IN ELEVATIONS. AT THESE LOCATIONS, EIFS SYSTEMS SHALL BE REMOVED IN REGULAR ORTHAGONAL SECTIONS. LINES OF REMOVAL SHALL BE PLUMB AND LEVEL. EXISTING EIFS AT THESE LOCATIONS SHALL BE REMOVED IN IT'S ENTIRETY - I.E. FINISH, MESH, INSULATION AND ADHESIVE, AND SUBSTRATE SHALL BE PREPPED FOR NEW PATCHED EIFS SYSTEM.

9. EXTENTS OF SLAB TRENCHING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR PLACEMENT OF BELOW GRADE UTILITIES AND STRUCTURAL WORK IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONRTACTOR SHALL VERIFY REQ'D SCOPE OF SLAB REMOVAL WORK WITH REQUIREMENTS OF MEP AND STRUCTURAL AND NEW WORK SCOPE.VERIFY THE EXTENTS OF ALL SLAB REMOVAL WORK WITH ARCHITECT BEFORE PERFMING.

10. EXTENTS OF SLAB GRINDING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR REFINISHING OF EXISTING FLOORS IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONTRACTOR SHALL VERIFY FULL EXTENTS OF THIS WORK WITH FINISH PLANS AND SURFACE PREPARATION REQUIREMENTS OF SPECIFIED NEW FLOOR FINISHES AS PER PROJECT SPECIFICATIONS.

11. WHERE FINISH FLOORING IS TO BE REMOVED, REMOVE ALL MATERIAL - I.E. FASTENERS, ADHEISIVES, AND BACKING, TO SLAB BELOW. PREPARE SLAB SURFACE FOR NEW FINISH AS PER REQUIREMENTS OF NEW WORK.

12. ALL OBSOLETE OR ABANDONED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT - I.E. CONDUIT, FITTINGS, DUCTWORK, HANGERS ,CONTROLS, FIXTURES, ETC - SHALL BE REMOVED. COORDINATE WITH MEP REMOVAL DRAWINGS.

13. WHERE PARTITIONS ARE REMOVED, REMOVE ALL ITEMS CONTAINED WITHIN - INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, FRAMES, SIDLIGHTS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE AND BELOW, UNLESS NOTED OTHERWISE.

14. ALL EXISTING CEILINGS SHALL BE REMOVED. WHERE CEILINGS ARE REMOVED, REMOVE CEILING FINISH AND SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED FASTENERS, FITTINGS, AND MEP EQUIPMENT. COORDINATE WITH MEP REMOVAL DRAWINGS.

15. SEE DEMOLITION KEYNOTES FOR SPECIFIC INFORMATION ON ITEMS TO BE REMOVED BY LOCATION

KEYED NOTES (DEMOLITION)

D1 REMOVE EXISTING OVERHEAD DOOR AND ALL FRAME/HARDWARE/MOTOR COMPONENTS BACK TO ROUGH OPENING

D2 REMOVE EXISTING DOOR(S) AND FRAME(S) TO ROUGH OPENING

D3 REMOVE EIFS PANEL FROM CONCRETE WALL/CMU. CLEAN CONCRETE/CMU TO PREPARE FOR NEW WATERPROOFING OR CLADDING - COORDINATE W/ NEW WORK.

D4 CUT AND REMOVE SECTION OF DAMAGED EXISTING EIFS SYSTEM BACK TO SUBSTRATE. PREPARE SUBSTRATE FOR NEW PATCH AND REPAIR WORK AS PER EIFS-2 MANUF'S RECOMENDATION

D5 REMOVE EXISTING STOREFRONT GLAZING SYSTEM AND ALL FLASHING/TRIM/SILLS BACK TO ROUGH OPENING; DEMOLISH/GRIND OUT ANY MISC. STEEL AND BRACING IN OPENING UNLESS SPECIFICALLY NOTE TO REMAIN IN NEW WORK; PATCH AND REPAIR MASONRY FOR NEW CURTAIN WALL SYSTEM

D6 REMOVE PORTION OF EXTERIOR MASONRY WALL COMPLETELY. REMOVE EXISTING EIFS FINISH AS REQ'D TO TOOTH IN NEW CMU - REF. EXTERIOR ELEVATIONS

D7 REMOVE PART OF EXISTING FLOOR/ROOF IN PREPARATION FOR ELEVATOR SHAFT

D8 REMOVE EXISTING STAIR COMPLETELY

D9 REMOVE EXISTING INTERIOR WALL COMPLETELY

D10 REMOVE EXISTING INTERIOR WIRE PARTITION; SALVAGE, CLEAN, AND STORE FOR REUSE

D11 REMOVE EXISTING PLUMBING FIXTURES AND PLUMBING WALL CAVITY

D12 REMOVE EXISTING CMU COLUMN WRAP AND ANY TIE BACKS OR ANCHORS TO B.O. SLAB OR DECK ABOVE. PREPARE NEWLY EXPOSED STEEL FOR NEW FINISH - REF FINISH PLANS

D13 REMOVE EXISTING EXTERIOR CONCRETE WALL TO 8". SEE NEW WORK FOR EXTENTS. SAW CUT CONCRETE CLEANLY, ALIGNED WITH CMU JAMBS ABOVE TO CREATE CLEAN ROUGH OPENING FOR NEW CURTAIN WALL. PREP FOR NEW CMU WORK TO PATCH AND TOOTH IN NEW JAMB BLOCKS.

D14 SAW CUT AND DEMOLISH EXISTING SLAB AS REQ'D FOR COMPLETEION OF NEW MEP OR STRUCTURAL WORK BELOW SLAB. REGIONS DIMENSIONED SHALL BE REMOVED AS NOTED. ALL OTHER AREAS, GC SHALL COORDINATE ACTUAL REMOVAL REQUIREMENTS WITH NEW WORK.

D15 DEMOLISH EXISTING PLASTER CEILING AND SOFFIT WRAP AND ALL SUSPENSION - FRAMING, HANGERS, RODS, DECK CLIPS, ETC BACK TO DECK. CLEAN NEWLY EXPOSED STEEL DECK, JOIST AND FRAMING - REF. ARCHITECTURAL CEILING PLANS FOR ANY NEW FINISHES

D16 EXISTING CONCRETE FILL AT FORMER TRENCHES AND BASINS TO BE REMOVED OR GROUND DOWN TO DEPTH AS REQ'D TO PROVIDE NEW CONCRETE TOPPING SUBSTRATE. REF TO REQUIREMENTS OF NEW WORK. REF STRUCT

D17 COORDINATE NEW PLATFORM CONSTRUCTION AND LOCATION OF EXISTING RAIL AND SUPPORT. IF RAIL IS IN CONFLICT WITH NEW WORK. DEMOLISH RAIL AND SUPPORT AT THIS BAY

D18 EXISTING OWNERS EQUIPMENT TO BE DECOMISSIONED AND REMOVED BY OWNER - COORDINATE WITH OWNER FOR SALVAGE REQUIREMENTS

D20 EXISTING PAINT BOOTH AND ALL RELATED EQUIPMENT - FANS, POWER, DUCTWORK, ETC SHALL BE REMOVED. ALL EXISTING OPENINGS IN SLAB, WALLS AND ROOF SHALL BE PREPPED FOR REPAIR AND PATCHING IN NEW WORK

D21 EXISTING STEEL AND GLASS WINDOW WALL TO BE PARTIALLY DEMOLISHED. REMOVE TOGGLE BOLTS RETAINING GLAZED PANELS. GLAZED PANELS SHALL BE CLEANED AND SALVAGED FOR RE-USE IN SLIDING PARTITIONS - REF NEW WORK. REMOVE OTHER FRAMING COMPONENTS OF GLAZED WALL AS REQ'D - REF NEW ARCHITECTURAL ELEVATIONS FOR EXTENTS.

D22 CLEAN EXISTING STEEL AND GLASS WINDOW WALL TO REMAIN: PROVIDE TEMPORARY SUPPORT AND PROTECT IN PLACE - REFERENCE STRUCTURAL

D23 SAW CUT STRAIGHT AND DEMOLISH CONCRETE WALL BELOW STEEL AND GLASS TO BELOW F.F.E. AS REQ'D FOR NEW WORK - REF. ARCHITECTURAL DETAILS AT THIS LOCATION. CONCRETE PIERS AT COLUMN BASES SHALL REMAIN - REF. STRUCTURAL FOR EXTENTS OF WALL TO REMAIN.

D24 REMOVE MEZZANINE FLOOR SLAB AND FRAMING - REFER TO STRUCTURAL

D25 EXISTING CRANE RAIL AND ASSOCIATE EQUIPMENT TO BE RETAINED. PROTECT IN PLACE

D26 DEMOLISH EXISTING SLAB AS REQUIRED FOR NEW KITCHEN EQUIPMENT - REFERENCE STRUCTURAL

D27 REFERENCE PLUMBING DRAWINGS FOR WORK ASSOCIATED WITH NEW COMMERICIAL KITCHEN EQUIPMENT IN THIS AREA. REMOVE OR MODIFY SLABS AS REQ'D

D28 DEMOLISH EXTERIOR LIGHT FIXTURE, PREPARE EXISTING EIFS FOR PATCH AND REPAIR

D29 DEMOLISH EXTERIOR SIGNAGE AND ALL RELATED FASTENERS AND HARDWARE - PREPARE EXISTING EIFS FOR PATCH AND REPAIR

D30 SALVAGE EXISTING WHEEL STOP - REPAIR CONCRETE SUBSTRATE AND PREPARE FOR NEW FINISH WORK

D31 DEMOLISH EXISTING CANOPY FASCIA, FLASHING, EPDM MEMBRANE AND SOFFIT MATERIAL AS REQ'D TO ACCOMODATE NEW WORK IN THIS AREA - REF ARCHITECTURAL DETAILS

D32 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW ROOF PENETRATION - COORDINATE WITH ARCHITECTURAL AND M.E.P. NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS

D33 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW SKYLIGHT - COORDINATE WITH ARCHITECTURAL AND STRUCT NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS

D34 SALVAGE EXISTING GLAZED TILE AND BULLNOSE TRIM. REUSE FOR PATCHING AT MEZZANINE LEVEL. SEE PLANS & INTERIOR ELEVATIONS FOR EXTENT OF NEW WORK.

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Project No: 20190006.00

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Architect Seal

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DAGMARA K. LARSEN
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ARCHITECT

Signature

Print Name Dagmara Larsen

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1	2023.06.09	BID DOCUMENTS

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LEVEL 1 DEMOLITION - NORTH

D101N

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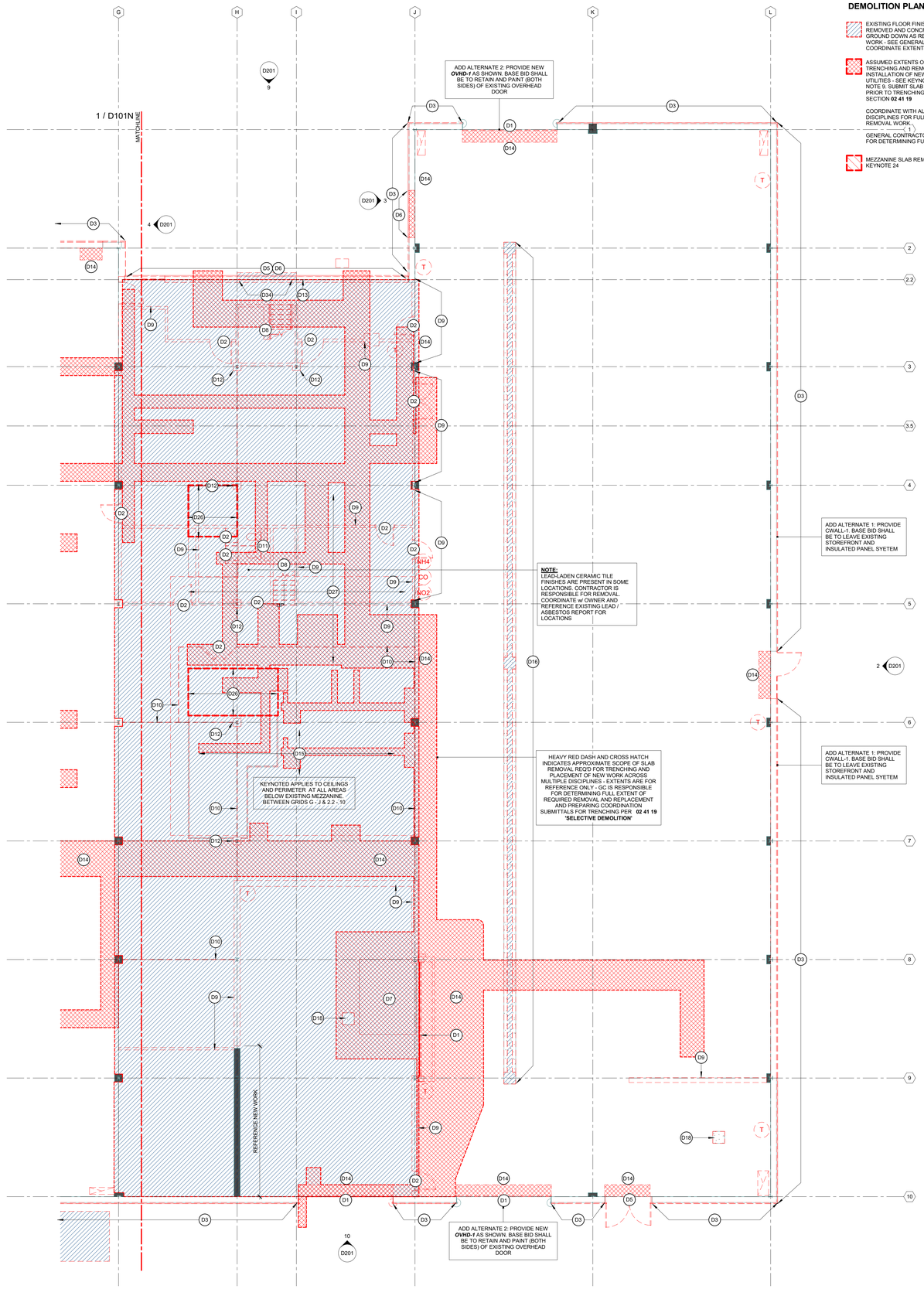

1 LEVEL 1 DEMO -- SOUTH
D101S 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING FLOOR FINISHES SHALL BE REMOVED AND CONCRETE SLAB SHALL BE GROUND DOWN AS REQ'D FOR NEW WORK - SEE GENERAL NOTES - COORDINATE EXTENTS WITH NEW WORK
- ASSUMED EXTENTS OF EXISTING SLAB TRENCHING AND REMOVAL FOR INSTALLATION OF NEW BELOW SLAB UTILITIES - SEE KEYNOTE 14. GENERAL NOTE 9. SUBMIT SLAB REMOVAL PLAN PRIOR TO TRENCHING PER SPECIFICATION SECTION **02 41 19**

  COORDINATE WITH ALL SHEET DISCIPLINES FOR FULL SCOPE OF REQ'D REMOVAL WORK.

  GENERAL CONTRACTOR IS REPONSIBLE FOR DETERMINING FULL SCOPE OF WORK
- MEZZANINE SLAB REMOVAL - SEE KEYNOTE 24

DEMOLITION GENERAL NOTES

1. ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR WORK IN THESE DOCUMENTS SHALL VISIT PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL VERIFY EXISTING CONDITIONS AND SCOPE OF WORK.

2. ALL LOOSE DEBRIS IS TO BE REMOVED BY DEMOLITION CONTRACTOR

3. NOTIFY ARCHITECT IMMEDIATLEY IF FIELD CONDITIONS ARE OTHER THAN WHAT IS SHOWN ON PLANS

4. WHERE DEMOLITION WORK ABUTTS OR INTERSCTS EXISTING CONSTRUCTION WHICH IS TO REMIN, REFER TO NEW CONSTRUCTION DOCUMENTS FOR EXTENTS OF REMOVAL. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.

5. INTERIOR SURFACE CLEANING SHALL BE PERFORMED DURING DEMOLITION PHASE OF WORK. CONTRACTOR SHALL CLEAN ALL INTERIOR SURFACES TO REMAIN (FLOORS, WALLS, ROOF DECK, STRUCTURAL FRAMING, ETC.), AS PER REQUIREMENTS OF SECTION **02 41 19 'SELECTIVE DEMOLITION'** OF THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM THIS WORK AFTER REMOVAL OF ALL ITEMS TO BE DEMOLISHED AND PRIOR TO COMMENCING NEW WORK.

6. CONTRACTOR SHALL CONDUCT CLEANING WORK DESCRIBED IN DEMOLITION GENERAL NOTE 5 IN A MANNER WHICH PRESERVES, TO ALL REASONABLE EXTENT, EXISTING INTERIOR FINISHES TO REMAIN. CONTRACTOR SHALL INSPECT RESULTS OF CLEANING WORK AND SHALL NOTIFY ARCHITECT AND OWNER OF ANY EXISTING FINISHES TO REMAIN WHICH HAVE BEEN DAMAGED.

7. COORDINATE REMOVAL OF ELEMENTS WHICH MAY CONTAIN HAZARDOUS MATERIALS - I.E. PIPE WRAP, CONTAMINATED SOILS, ETC WITH ABATEMENT CONTRACTOR. NOTIFY OWNER IMMEDIATLEY IF HAZARDOUS MATERIALS ARE ENOUNTERED. HAZARDOUS MATERIALS ABATEMENT IS NOT PART OF THE WORK SHOWN IN THESE DOCUEMNTS.

8. GENERAL LOCATIONS WHERE EXISTING EIFS FINISHES ARE REMOVED IN ENTIRETY (FOR REPLACEMENT OR PATCH AND REPAIR) ARE NOTED ON EXTERIOR DEMOLITION ELEVATIONS WITH KEYED NOTES. NOTIFY ARCHITECT IF REMOVAL EXTENTS MUST BE OTHER THAN WHAT IS SHOWN IN ELEVATIONS. AT THESE LOCATIONS, EIFS SYSTEMS SHALL BE REMOVED IN REGULAR ORTHAGONAL SECTIONS. LINES OF REMOVAL SHALL BE PLUMB AND LEVEL. EXISTING EIFS AT THESE LOCATIONS SHALL BE REMOVED IN IT'S ENTIRETY - I.E. FINISH, MESH, INSULATION AND ADHESIVE, AND SUBSTRATE SHALL BE PREPPED FOR NEW PATCHED EIFS SYSTEM.

9. EXTENTS OF SLAB TRENCHING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR PLACEMENT OF BELOW GRADE UTILITIES AND STRUCTURAL WORK IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONRTACTOR SHALL VERIFY REQ'D SCOPE OF SLAB REMOVAL WORK WITH REQUIREMENTS OF MEP AND STRUCTURAL AND NEW WORK SCOPE. VERIFY THE EXTENTS OF ALL SLAB REMOVAL WORK WITH ARCHITECT BEFORE PERFORMING.

10. EXTENTS OF SLAB GRINDING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR REFINISHING OF EXISTING FLOORS IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONTRACTOR SHALL VERIFY FULL EXTENTS OF THIS WORK WITH FINISH PLANS AND SURFACE PREPARATION REQUIREMENTS OF SPECIFIED NEW FLOOR FINISHES AS PER PROJECT SPECIFICATIONS.

11. WHERE FINISH FLOORING IS TO BE REMOVED, REMOVE ALL MATERIAL - I.E. FASTENERS, ADHEISIVES, AND BACKING, TO SLAB BELOW. PREPARE SLAB SURFACE FOR NEW FINISH AS PER REQUIREMENTS OF NEW WORK.

12. ALL OBSOLETE OR ABANDONED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT - I.E. CONDUIT, FITTINGS, DUCTWORK, HANGERS ,CONTROLS, FIXTURES, ETC - SHALL BE REMOVED. COORDINATE WITH MEP REMOVAL DRAWINGS.

13. WHERE PARTITIONS ARE REMOVED, REMOVE ALL ITEMS CONTAINED WITHIN - INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, FRAMES, SIDLIGHTS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE AND BELOW, UNLESS NOTED OTHERWISE.

14. ALL EXISTING CEILINGS SHALL BE REMOVED. WHERE CEILINGS ARE REMOVED, REMOVE CEILING FINISH AND SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED FASTENERS, FITTINGS, AND MEP EQUIPMENT. COORDINATE WITH MEP REMOVAL DRAWINGS.

15. SEE DEMOLITION KEYNOTES FOR SPECIFIC INFORMATION ON ITEMS TO BE REMOVED BY LOCATION

KEYED NOTES (DEMOLITION)

- D1 REMOVE EXISTING OVERHEAD DOOR AND ALL FRAME/HARDWARE/MOTOR COMPONENTS BACK TO ROUGH OPENING
- D2 REMOVE EXISTING DOOR(S) AND FRAME(S) TO ROUGH OPENING
- D3 REMOVE EIFS PANEL FROM CONCRETE WALL/CMU. CLEAN CONCRETE/CMU TO PREPARE FOR NEW WATERPROOFING OR CLADDING - COORDINATE W/ NEW WORK
- D4 CUT AND REMOVE SECTION OF DAMAGED EXISTING EIFS SYSTEM BACK TO SUBSTRATE. PREPARE SUBSTRATE FOR NEW PATCH AND REPAIR WORK AS PER EIFS-2 MANUF'S RECOMENDATION
- D5 REMOVE EXISTING STOREFRONT GLAZING SYSTEM AND ALL FLASHING/TRIM/SILLS BACK TO ROUGH OPENING; DEMOLISH/GRIND OUT ANY MISC. STEEL AND BRACING IN OPENING UNLESS SPECIFICALLY NOTE TO REMAIN IN NEW WORK; PATCH AND REPAIR MASONRY FOR NEW CURTAIN WALL SYSTEM
- D6 REMOVE PORTION OF EXTERIOR MASONRY WALL COMPLETELY. REMOVE EXISTING EIFS FINISH AS REQ'D TO TOOTH IN NEW CMU - REF. EXTERIOR ELEVATIONS
- D7 REMOVE PART OF EXISTING FLOOR/ROOF IN PREPARATION FOR ELEVATOR SHAFT
- D8 REMOVE EXISTING STAIR COMPLETELY
- D9 REMOVE EXISTING INTERIOR WALL COMPLETELY
- D10 REMOVE EXISTING INTERIOR WIRE PARTITION; SALVAGE, CLEAN, AND STORE FOR REUSE
- D11 REMOVE EXISTING PLUMBING FIXTURES AND PLUMBING WALL CAVITY
- D12 REMOVE EXISTING CMU COLUMN WRAP AND ANY TIE BACKS OR ANCHORS TO B.O. SLAB OR DECK ABOVE. PREPARE NEWLY EXPOSED STEEL FOR NEW FINISH - REF FINISH PLANS
- D13 REMOVE EXISTING EXTERIOR CONCRETE WALL TO 6". SEE NEW WORK FOR EXTENTS. SAW CUT CONCRETE CLEANLY, ALIGNED WITH CMU JAMBS ABOVE TO CREATE CLEAN ROUGH OPENING FOR NEW CURTAIN WALL. PREP FOR NEW CMU WORK TO PATCH AND TOOTH IN NEW JAMB BLOCKS.
- D14 SAW CUT AND DEMOLISH EXISTING SLAB AS REQ'D FOR COMPLETEION OF NEW MEP OR STRUCTURAL WORK BELOW SLAB. REGIONS DIMENSIONED SHALL BE REMOVED AS NOTED. ALL OTHER AREAS, GC SHALL COORDINATE ACTUAL REMOVAL REQUIREMENTS WITH NEW WORK.
- D15 DEMOLISH EXISTING PLASTER CEILING AND SOFFIT WRAP AND ALL SUSPENSION - FRAMING. HANGERS, RODS, DECK CLIPS, ETC BACK TO DECK. CLEAN NEWLY EXPOSED STEEL DECK, JOIST AND FRAMING - REF. ARCHITECTURAL CEILING PLANS FOR ANY NEW FINISHES
- D16 EXISTING CONCRETE FILL AT FORMER TRENCHES AND BASINS TO BE REMOVED OR GROUND DOWN TO DEPTH AS REQ'D TO PROVIDE NEW CONCRETE TOPPING SUBSTRATE. REF TO REQUIREMENTS OF NEW WORK. REF STRUCT
- D18 COORDINATE NEW PLATFORM CONSTRUCTION AND LOCATION OF EXISTING RAIL AND SUPPORT. IF RAIL IS IN CONFLICT WITH NEW WORK. DEMOLISH RAIL AND SUPPORT AT THIS BAY
- D19 EXISTING OWNERS EQUIPMENT TO BE DECOMMSIGNED AND REMOVED BY OWNER - COORDINATE WITH OWNER FOR SALVAGE REQUIREMENTS
- D20 EXISTING PAINT BOOTH AND ALL RELATED EQUIPMENT - FANS, POWER, DUCTWORK, ETC SHALL BE REMOVED. ALL EXISTING OPENINGS IN SLAB, WALLS AND ROOF SHALL BE PREPPED FOR REPAIR AND PATCHING IN NEW WORK
- D21 EXISTING STEEL AND GLASS WINDOW WALL TO BE PARTIALLY DEMOLISHED. REMOVE TOGGLE BOLTS RETAINING GLAZED PANELS. GLAZED PANELS SHALL BE CLEANED AND SALVAGED FOR RE-USE IN SLIDING PARTITIONS - REF NEW WORK. REMOVE OTHER FRAMING COMPONENTS OF GLAZED WALL AS REQ'D - REF NEW ARCHITECTURAL ELEVATIONS FOR EXTENTS.
- D22 CLEAN EXISTING STEEL AND GLASS WINDOW WALL TO REMAIN; PROVIDE TEMPORARY SUPPORT AND PROTECT IN PLACE - REFERENCE STRUCTURAL
- D23 SAW CUT STRAIGHT AND DEMOLISH CONCRETE WALL BELOW STEEL AND GLASS TO BELOW F.F.E. AS REQ'D FOR NEW WORK - REF. ARCHITECTURAL DETAILS AT THIS LOCATION. CONCRETE PIERS AT COLUMN BASES SHALL REMAIN - REF. STRUCTURAL FOR EXTENTS OF WALL TO REMAIN.
- D24 REMOVE MEZZANINE FLOOR SLAB AND FRAMING - REFER TO STRUCTURAL
- D25 EXISTING CRANE RAIL AND ASSOCIATE EQUIPMENT TO BE RETAINED. PROTECT IN PLACE
- D26 DEMOLISH EXISTING SLAB AS REQUIRED FOR NEW KITCHEN EQUIPMENT - REFERENCE STRUCTURAL
- D27 REFERENCE PLUMBING DRAWINGS FOR WORK ASSOCIATED WITH NEW COMMERCIAL KITCHEN EQUIPMENT IN THIS AREA. REMOVE OR MODIFY SLABS AS REQ'D
- D28 DEMOLISH EXTERIOR LIGHT FIXTURE, PREPARE EXISTING EIFS FOR PATCH AND REPAIR
- D29 DEMOLISH EXTERIOR SIGNAGE AND ALL RELATED FASTENERS AND HARDWARE - PREPARE EXISTING EIFS FOR PATCH AND REPAIR
- D30 SALVAGE EXISTING WHEEL STOP - REPAIR CONCRETE SUBSTRATE AND PREPARE FOR NEW FINISH WORK
- D31 DEMOLISH EXISTING CANOPY FASCIA, FLASHING, EPDM MEMBRANE AND SOFFIT MATERIAL AS REQ'D TO ACCOMODATE NEW WORK IN THIS AREA - REF ARCHITECTURAL DETAILS
- D32 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW ROOF PENETRATION - COORDINATE WITH ARCHITECTURAL AND M.E.P. NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS
- D33 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW SKYLIGHT - COORDINATE WITH ARCHITECTURAL AND STRUCT NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS
- D34 SALVAGE EXISTING GLAZED TILE AND BULLNOSE TRIM. REUSE FOR PATCHING AT MEZZANINE LEVEL. SEE PLANS & INTERIOR ELEVATIONS FOR EXTENT OF NEW WORK.

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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

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DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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LEVEL 1 DEMOLITION - SOUTH

D101S

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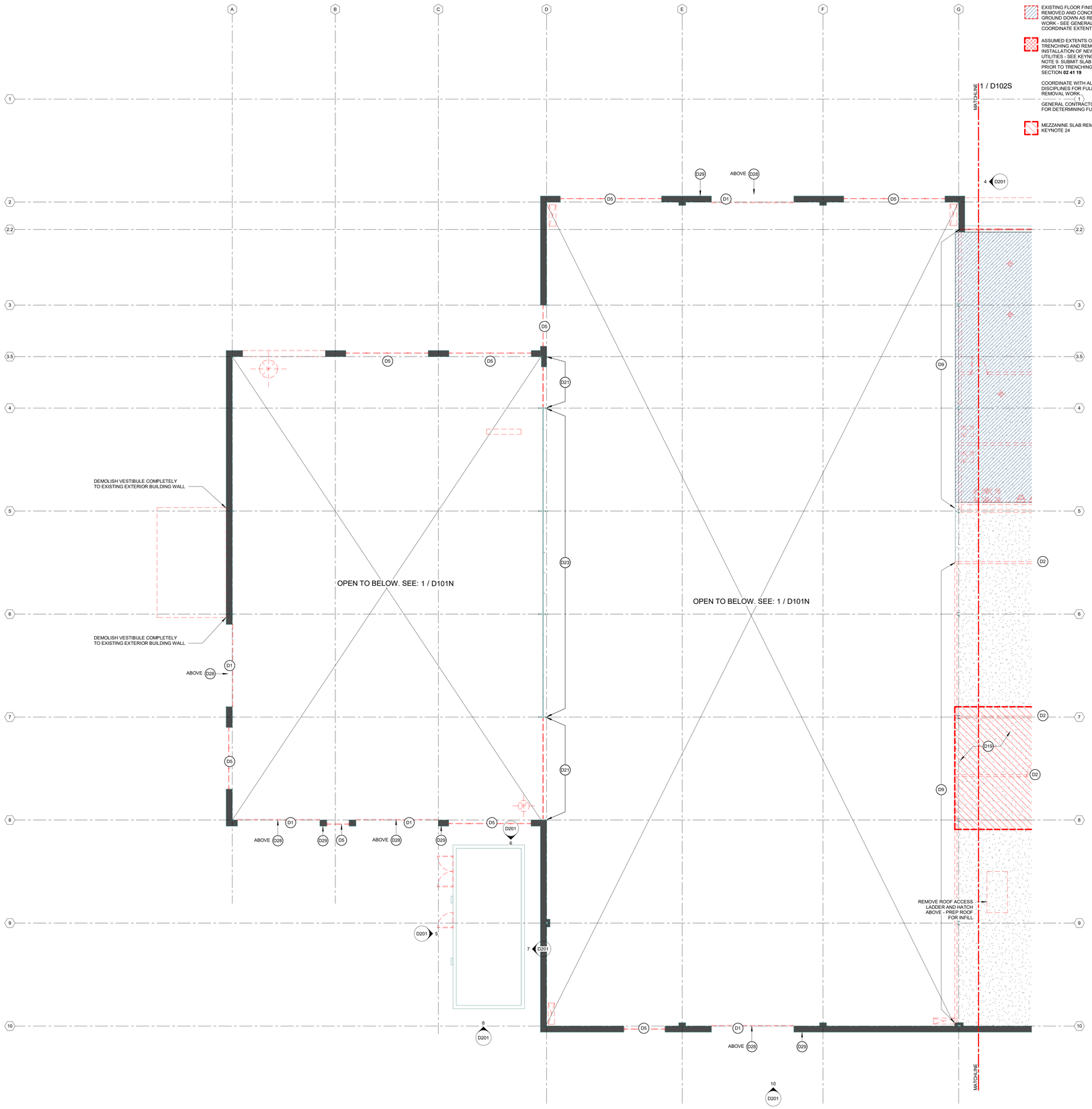

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- D5 REMOVE EXISTING STOREFRONT GLAZING SYSTEM AND ALL FLASHING/TRIM/SILLS BACK TO ROUGH OPENING. DEMOLISH/GRIND OUT ANY MISC. STEEL AND BRACING IN OPENING UNLESS SPECIFICALLY NOTE TO REMAIN IN NEW WORK; PATCH AND REPAIR MASONRY FOR NEW CURTAIN WALL SYSTEM
- D6 REMOVE PORTION OF EXTERIOR MASONRY WALL COMPLETELY. REMOVE EXISTING EIFS FINISH AS REQ'D TO TOOTH IN NEW CMU - REF. EXTERIOR ELEVATIONS
- D7 REMOVE PART OF EXISTING FLOOR/ROOF IN PREPARATION FOR ELEVATOR SHAFT
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- D17 COORDINATE NEW PLATFORM CONSTRUCTION AND LOCATION OF EXISTING RAIL AND SUPPORT. IF RAIL IS IN CONFLICT WITH NEW WORK, DEMOLISH RAIL AND SUPPORT AT THIS BAY
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- D21 CLEAN EXISTING STEEL AND GLASS WINDOW WALL TO REMAIN; PROVIDE TEMPORARY SUPPORT AND PROTECT IN PLACE - REFERENCE STRUCTURAL
- D22 SAW CUT STRAIGHT AND DEMOLISH CONCRETE WALL BELOW STEEL AND GLASS TO BELOW F.F.E. AS REQ'D FOR NEW WORK - REF. ARCHITECTURAL DETAILS AT THIS LOCATION. CONCRETE PIERS AT COLUMN BASES SHALL REMAIN - REF. STRUCTURAL FOR EXTENTS OF WALL TO REMAIN.
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Commercial Kitchen Design
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Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

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DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dlarsen
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

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1	2023.06.09	BID DOCUMENTS

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MEZZANINE LEVEL
DEMOLITION - NORTH

D102N

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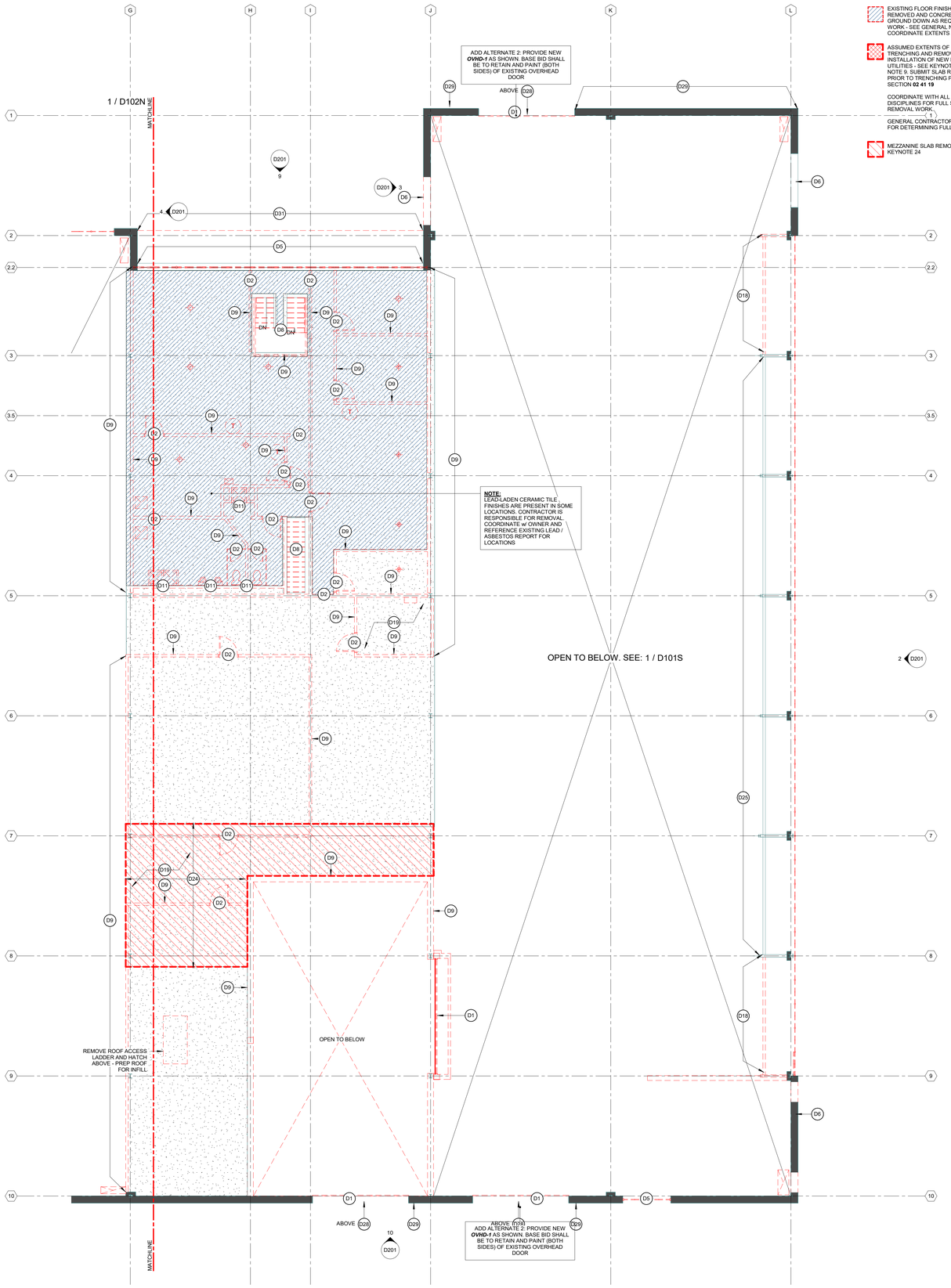

1 LEVEL 2 DEMO -- SOUTH
D102S 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING FLOOR FINISHES SHALL BE REMOVED AND CONCRETE SLAB SHALL BE GROUND DOWN AS REQ'D FOR NEW WORK - SEE GENERAL NOTES - COORDINATE EXTENTS WITH NEW WORK
- ASSUMED EXTENTS OF EXISTING SLAB TRENCHING AND REMOVAL FOR INSTALLATION OF NEW BELOW SLAB UTILITIES - SEE KEYNOTE 14. GENERAL NOTE 9. SUBMIT SLAB REMOVAL PLAN PRIOR TO TRENCHING PER SPECIFICATION SECTION **02 41 19**

  COORDINATE WITH ALL SHEET DISCIPLINES FOR FULL SCOPE OF REQ'D REMOVAL WORK.

  GENERAL CONTRACTOR IS REPONSIBLE FOR DETERMINING FULL SCOPE OF WORK
- MEZZANINE SLAB REMOVAL - SEE KEYNOTE 24

DEMOLITION GENERAL NOTES

1. ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR WORK IN THESE DOCUMENTS SHALL VISIT PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL VERIFY EXISTING CONDITIONS AND SCOPE OF WORK.

2. ALL LOOSE DEBRIS IS TO BE REMOVED BY DEMOLITION CONTRACTOR

3. NOTIFY ARCHITECT IMMEDIATLEY IF FIELD CONDITIONS ARE OTHER THAN WHAT IS SHOWN ON PLANS

4. WHERE DEMOLITION WORK ABUTTS OR INTERSCTS EXISTING CONSTRUCTION WHICH IS TO REMIN, REFER TO NEW CONSTRUCTION DOCUMENTS FOR EXTENTS OF REMOVAL. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.

5. INTERIOR SURFACE CLEANING SHALL BE PERFORMED DURING DEMOLITION PHASE OF WORK. CONTRACTOR SHALL CLEAN ALL INTERIOR SURFACES TO REMAIN (FLOORS, WALLS, ROOF DECK, STRUCTURAL FRAMING, ETC.), AS PER REQUIREMENTS OF SECTION **02 41 19 'SELECTIVE DEMOLITION'** OF THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM THIS WORK AFTER REMOVAL OF ALL ITEMS TO BE DEMOLISHED AND PRIOR TO COMMENCING NEW WORK.

6. CONTRACTOR SHALL CONDUCT CLEANING WORK DESCRIBED IN DEMOLITION GENERAL NOTE 5 IN A MANNER WHICH PRESERVES, TO ALL REASONABLE EXTENT, EXISTING INTERIOR FINISHES TO REMAIN. CONTRACTOR SHALL INSPECT RESULTS OF CLEANING WORK AND SHALL NOTIFY ARCHITECT AND OWNER OF ANY EXISTING FINISHES TO REMAIN WHICH HAVE BEEN DAMAGED.

7. COORDINATE REMOVAL OF ELEMENTS WHICH MAY CONTAIN HAZARDOUS MATERIALS - I.E. PIPE WRAP, CONTAMINATED SOILS, ETC WITH ABATEMENT CONTRACTOR. NOTIFY OWNER IMMEDIATLEY IF HAZARDOUS MATERIALS ARE ENOUNTERED. HAZARDOUS MATERIALS ABATEMENT IS NOT PART OF THE WORK SHOWN IN THESE DOCUEMNTS.

8. GENERAL LOCATIONS WHERE EXISTING EIFS FINISHES ARE REMOVED IN ENTIRETY (FOR REPLACEMENT OR PATCH AND REPAIR) ARE NOTED ON EXTERIOR DEMOLITION ELEVATIONS WITH KEYED NOTES. NOTIFY ARCHITECT IF REMOVAL EXTENTS MUST BE OTHER THAN WHAT IS SHOWN IN ELEVATIONS. AT THESE LOCATIONS, EIFS SYSTEMS SHALL BE REMOVED IN REGULAR ORTHAGONAL SECTIONS. LINES OF REMOVAL SHALL BE PLUMB AND LEVEL. EXISTING EIFS AT THESE LOCATIONS SHALL BE REMOVED IN IT'S ENTIRETY - I.E. FINISH, MESH, INSULATION AND ADHESIVE, AND SUBSTRATE SHALL BE PREPPED FOR NEW PATCHED EIFS SYSTEM.

9. EXTENTS OF SLAB TRENCHING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR PLACEMENT OF BELOW GRADE UTILITIES AND STRUCTURAL WORK IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONRTACTOR SHALL VERIFY REQ'D SCOPE OF SLAB REMOVAL WORK WITH REQUIREMENTS OF MEP AND STRUCTURAL AND NEW WORK SCOPE. VERIFY THE EXTENTS OF ALL SLAB REMOVAL WORK WITH ARCHITECT BEFORE PERFORMING.

10. EXTENTS OF SLAB GRINDING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR REFINISHING OF EXISTING FLOORS IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONTRACTOR SHALL VERIFY FULL EXTENTS OF THIS WORK WITH FINISH PLANS AND SURFACE PREPARATION REQUIREMENTS OF SPECIFIED NEW FLOOR FINISHES AS PER PROJECT SPECIFICATIONS.

11. WHERE FINISH FLOORING IS TO BE REMOVED, REMOVE ALL MATERIAL - I.E. FASTENERS, ADHEISIVES, AND BACKING, TO SLAB BELOW. PREPARE SLAB SUBFACE FOR NEW FINISH AS PER REQUIREMENTS OF NEW WORK.

12. ALL OBSOLETE OR ABANDONED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT - I.E. CONDUIT, FITTINGS, DUCTWORK, HANGERS ,CONTROLS, FIXTURES, ETC - SHALL BE REMOVED. COORDINATE WITH MEP REMOVAL DRAWINGS.

13. WHERE PARTITIONS ARE REMOVED, REMOVE ALL ITEMS CONTAINED WITHIN - INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, FRAMES, SIDLIGHTS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE AND BELOW, UNLESS NOTED OTHERWISE.

14. ALL EXISTING CEILINGS SHALL BE REMOVED. WHERE CEILINGS ARE REMOVED, REMOVE CEILING FINISH AND SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED FASTENERS, FITTINGS, AND MEP EQUIPMENT. COORDINATE WITH MEP REMOVAL DRAWINGS.

15. SEE DEMOLITION KEYNOTES FOR SPECIFIC INFORMATION ON ITEMS TO BE REMOVED BY LOCATION

KEYED NOTES (DEMOLITION)

- D1 REMOVE EXISTING OVERHEAD DOOR AND ALL FRAME/HARDWARE/MOTOR COMPONENTS BACK TO ROUGH OPENING
- D2 REMOVE EXISTING DOOR(S) AND FRAME(S) TO ROUGH OPENING
- D3 REMOVE EIFS PANEL FROM CONCRETE WALL/CMU. CLEAN CONCRETE/CMU TO PREPARE FOR NEW WATERPROOFING OR CLADDING - COORDINATE W/ NEW WORK
- D4 CUT AND REMOVE SECTION OF DAMAGED EXISTING EIFS SYSTEM BACK TO SUBSTRATE. PREPARE SUBSTRATE FOR NEW PATCH AND REPAIR WORK AS PER EIFS-2 MANUF'S RECOMENDATION
- D5 REMOVE EXISTING STOREFRONT GLAZING SYSTEM AND ALL FLASHING/TRIM/SILLS BACK TO ROUGH OPENING; DEMOLISH/GRIND OUT ANY MISC. STEEL AND BRACING IN OPENING UNLESS SPECIFICALLY NOTE TO REMAIN IN NEW WORK; PATCH AND REPAIR MASONRY FOR NEW CURTAIN WALL SYSTEM
- D6 REMOVE PORTION OF EXTERIOR MASONRY WALL COMPLETELY. REMOVE EXISTING EIFS FINISH AS REQ'D TO TOOTH IN NEW CMU - REF. EXTERIOR ELEVATIONS
- D7 REMOVE PART OF EXISTING FLOOR/ROOF IN PREPARATION FOR ELEVATOR SHAFT
- D8 REMOVE EXISTING STAIR COMPLETELY
- D9 REMOVE EXISTING INTERIOR WALL COMPLETELY
- D10 REMOVE EXISTING INTERIOR WIRE PARTITION; SALVAGE, CLEAN, AND STORE FOR REUSE
- D11 REMOVE EXISTING PLUMBING FIXTURES AND PLUMBING WALL CAVITY
- D12 REMOVE EXISTING CMU COLUMN WRAP AND ANY TIE BACKS OR ANCHORS TO B.O. SLAB OR DECK ABOVE. PREPARE NEWLY EXPOSED STEEL FOR NEW FINISH - REF FINISH PLANS
- D13 REMOVE EXISTING EXTERIOR CONCRETE WALL TO 8". SEE NEW WORK FOR EXTENTS. SAW CUT CONCRETE CLEANLY, ALIGNED WITH CMU JAMBS ABOVE TO CREATE CLEAN ROUGH OPENING FOR NEW CURTAIN WALL. PREP FOR NEW CMU WORK TO PATCH AND TOOTH IN NEW JAMB BLOCKS.
- D14 SAW CUT AND DEMOLISH EXISTING SLAB AS REQ'D FOR COMPLETEION OF NEW MEP OR STRUCTURAL WORK BELOW SLAB. RECOONS DIMENSIONED SHALL BE REMOVED AS NOTED. ALL OTHER AREAS, GC SHALL COORDINATE ACTUAL REMOVAL REQUIREMENTS WITH NEW WORK.
- D15 DEMOLISH EXISTING PLASTER CEILING AND SOFFIT WRAP AND ALL SUSPENSION - FRAMING, HANGERS, RODS, DECK CLIPS, ETC BACK TO DECK. CLEAN NEWLY EXPOSED STEEL DECK, JOIST AND FRAMING - REF. ARCHITECTURAL CEILING PLANS FOR ANY NEW FINISHES
- D16 EXISTING CONCRETE FILL AT FORMER TRENCHES AND BASINS TO BE REMOVED OR GROUND DOWN TO DEPTH AS REQ'D TO PROVIDE NEW CONCRETE TOPPING SUBSTRATE. REF TO REQUIREMENTS OF NEW WORK. REF STRUCT
- D18 COORDINATE NEW PLATFORM CONSTRUCTION AND LOCATION OF EXISTING RAIL AND SUPPORT. IF RAIL IS IN CONFLICT WITH NEW WORK, DEMOLISH RAIL AND SUPPORT AT THIS BAY
- D19 EXISTING OWNERS EQUIPMENT TO BE DECOMISSIONED AND REMOVED BY OWNER - COORDINATE WITH OWNER FOR SALVAGE REQUIREMENTS
- D20 EXISTING PAINT BOOTH AND ALL RELATED EQUIPMENT - FANS, POWER, DUCTWORK, ETC SHALL BE REMOVED. ALL EXISTING OPENINGS IN SLAB, WALLS AND ROOF SHALL BE PREPPED FOR REPAIR AND PATCHING IN NEW WORK
- D21 EXISTING STEEL AND GLASS WINDOW WALL TO BE PARTIALLY DEMOLISHED. REMOVE TOGGLE BOLTS RETAINING GLAZED PANELS. GLAZED PANELS SHALL BE CLEANED AND SALVAGED FOR RE-USE IN SLIDING PARTITIONS - REF NEW WORK. REMOVE OTHER FRAMING COMPONENTS OF GLAZED WALL AS REQ'D - REF NEW ARCHITECTURAL ELEVATIONS FOR EXTENTS.
- D22 CLEAN EXISTING STEEL AND GLASS WINDOW WALL TO REMAIN; PROVIDE TEMPORARY SUPPORT AND PROTECT IN PLACE - REFERENCE STRUCTURAL
- D23 SAW CUT STRAIGHT AND DEMOLISH CONCRETE WALL BELOW STEEL AND GLASS TO BELOW F.F.E. AS REQ'D FOR NEW WORK - REF. ARCHITECTURAL DETAILS AT THIS LOCATION. CONCRETE PIERS AT COLUMN BASES SHALL REMAIN - REF. STRUCTURAL FOR EXTENTS OF WALL TO REMAIN.
- D24 REMOVE MEZZANINE FLOOR SLAB AND FRAMING - REFER TO STRUCTURAL
- D25 EXISTING CRANE RAIL AND ASSOCIATE EQUIPMENT TO BE RETAINED. PROTECT IN PLACE
- D26 DEMOLISH EXISTING SLAB AS REQUIRED FOR NEW KITCHEN EQUIPMENT - REFERENCE STRUCTURAL
- D27 REFERENCE PLUMBING DRAWINGS FOR WORK ASSOCIATED WITH NEW COMMERCIAL KITCHEN EQUIPMENT IN THIS AREA. REMOVE OR MODIFY SLABS AS REQ'D
- D28 DEMOLISH EXTERIOR LIGHT FIXTURE, PREPARE EXISTING EIFS FOR PATCH AND REPAIR
- D29 DEMOLISH EXTERIOR SIGNAGE AND ALL RELATED FASTENERS AND HARDWARE - PREPARE EXISTING EIFS FOR PATCH AND REPAIR
- D30 SALVAGE EXISTING WHEEL STOP - REPAIR CONCRETE SUBSTRATE AND PREPARE FOR NEW FINISH WORK
- D31 DEMOLISH EXISTING CANOPY FASCIA, FLASHING, EPDM MEMBRANE AND SOFFIT MATERIAL AS REQ'D TO ACCOMODATE NEW WORK IN THIS AREA - REF ARCHITECTURAL DETAILS
- D32 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW ROOF PENETRATION - COORDINATE WITH ARCHITECTURAL AND M.E.P. NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS
- D33 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW SKYLIGHT - COORDINATE WITH ARCHITECTURAL AND STRUCT NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS
- D34 SALVAGE EXISTING GLAZED TILE AND BULLNOSE TRIM. REUSE FOR PATCHING AT MEZZANINE LEVEL. SEE PLANS & INTERIOR ELEVATIONS FOR EXTENT OF NEW WORK.

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Madison, WI 53717 | 608. 826. 0532

Landscape Architect
Ken Saiki Design
1110 S. Park St.
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Madison, WI 53562

Lighting Design
Mazzetti, Inc.
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Commercial Kitchen Design
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Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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MEZZANINE LEVEL DEMOLITION - SOUTH

D102S

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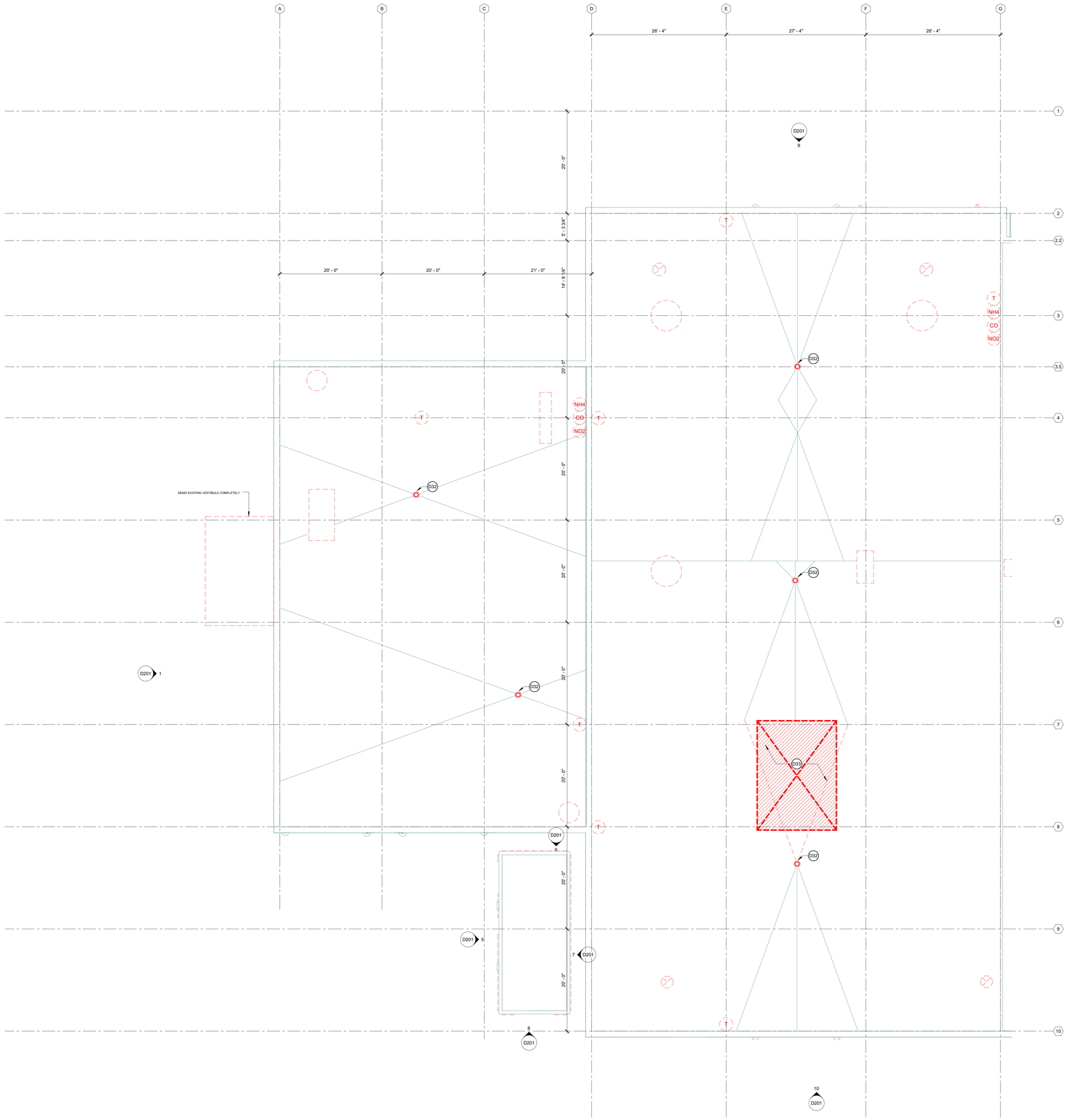

1 ROOF PLAN - REFERENCE

D103N 1/8" = 1'-0"

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Ken Saiki Design

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Boelter Premier

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190005.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 License No 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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ROOF DEMOLITION - NORTH

D103N

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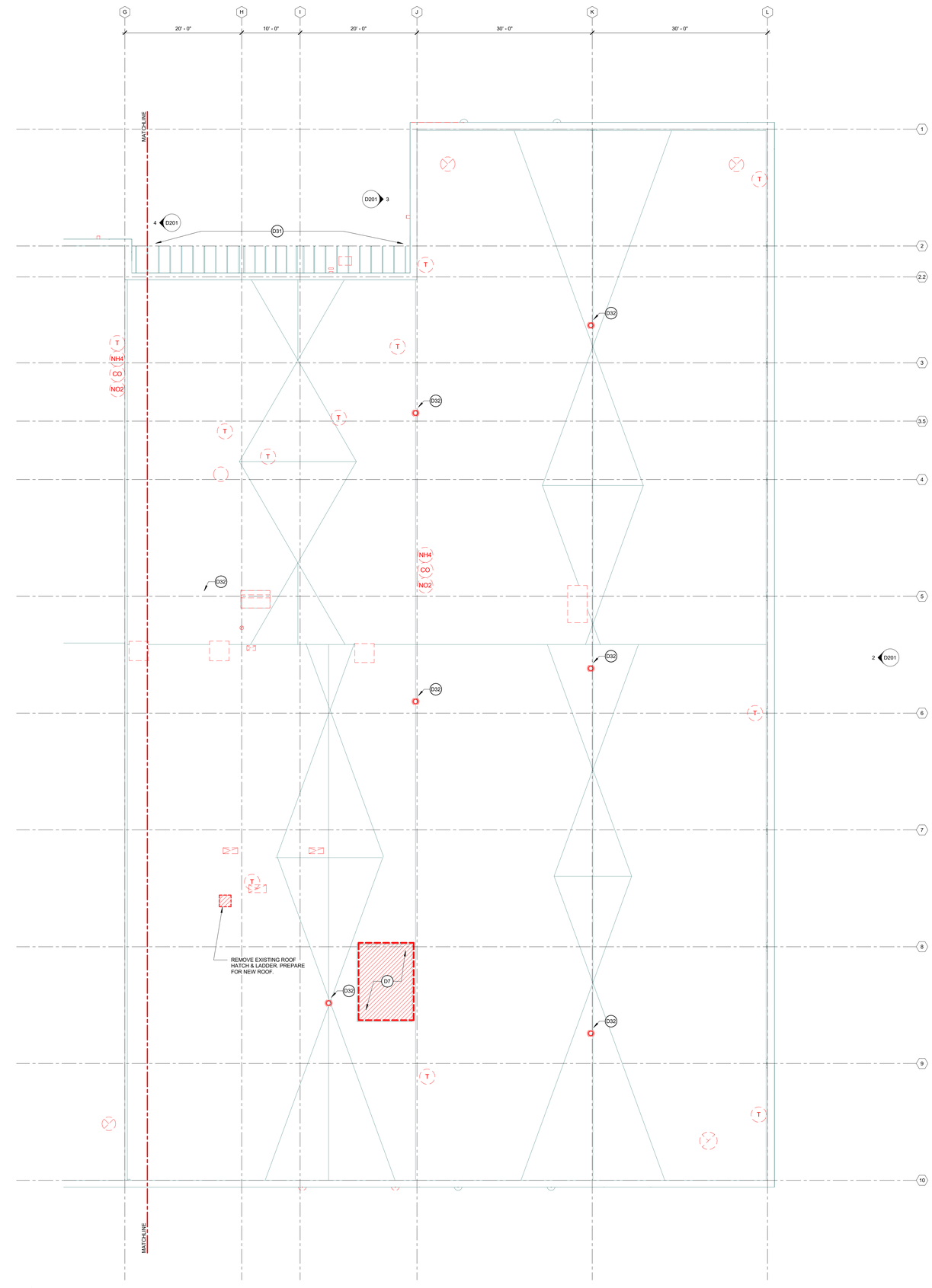

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3. NOTIFY ARCHITECT IMMEDIATLEY IF FIELD CONDITIONS ARE OTHER THAN WHAT IS SHOWN ON PLANS

4. WHERE DEMOLITION WORK ABUTTS OR INTERSCTS EXISTING CONSTRUCTION WHICH IS TO REMIN, REFER TO NEW CONSTRUCTION DOCUMENTS FOR EXTENTS OF REMOVAL. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.

5. INTERIOR SURFACE CLEANING SHALL BE PERFORMED DURING DEMOLITION PHASE OF WORK. CONTRACTOR SHALL CLEAN ALL INTERIOR SURFACES TO REMAIN (FLOORS, WALLS, ROOF DECK, STRUCTURAL FRAMING, ETC.), AS PER REQUIREMENTS OF SECTION **02 41 19 "SELECTIVE DEMOLITION"** OF THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PERFORM THIS WORK AFTER REMOVAL OF ALL ITEMS TO BE DEMOLISHED AND PRIOR TO COMMENCING NEW WORK.

6. CONTRACTOR SHALL CONDUCT CLEANING WORK DESCRIBED IN DEMOLITION GENERAL NOTE 5 IN A MANNER WHICH PRESERVES, TO ALL REASONABLE EXTENT, EXISTING INTERIOR FINISHES TO REMAIN. CONTRACTOR SHALL INSPECT RESULTS OF CLEANING WORK AND SHALL NOTIFY ARCHITECT AND OWNER OF ANY EXISTING FINISHES TO REMAIN WHICH HAVE BEEN DAMAGED.

7. COORDINATE REMOVAL OF ELEMENTS WHICH MAY CONTAIN HAZARDOUS MATERIALS - I.E. PIPE WRAP, CONTAMINATED SOILS, ETC WITH ABATEMENT CONTRACTOR. NOTIFY OWNER IMMEDIATLEY IF HAZARDOUS MATERIALS ARE ENOUNTERED. HAZARDOUS MATERIALS ABATEMENT IS NOT PART OF THE WORK SHOWN IN THESE DOCUEMNTS.

8. GENERAL LOCATIONS WHERE EXISTING EIFS FINISHES ARE REMOVED IN ENTIRETY (FOR REPLACEMENT OR PATCH AND REPAIR) ARE NOTED ON EXTERIOR DEMOLITION ELEVATIONS WITH KEYED NOTES. NOTIFY ARCHITECT IF REMOVAL EXTENTS MUST BE OTHER THAN WHAT IS SHOWN IN ELEVATIONS. AT THESE LOCATIONS, EIFS SYSTEMS SHALL BE REMOVED IN REGULAR ORTHAGONAL SECTIONS. LINES OF REMOVAL SHALL BE PLUMB AND LEVEL. EXISTING EIFS AT THESE LOCATIONS SHALL BE REMOVED IN IT'S ENTIRETY - I.E. FINISH, MESH, INSULATION AND ADHESIVE, AND SUBSTRATE SHALL BE PREPPED FOR NEW PATCHED EIFS SYSTEM.

9. EXTENTS OF SLAB TRENCHING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR PLACEMENT OF BELOW GRADE UTILITIES AND STRUCTURAL WORK IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONRTACTOR SHALL VERIFY REQD SCOPE OF SLAB REMOVAL WORK WITH REQUIREMENTS OF MEP AND STRUCTURAL AND NEW WORK SCOPE.VERIFY THE EXTENTS OF ALL SLAB REMOVAL WORK WITH ARCHITECT BEFORE PERFORMING.

10. EXTENTS OF SLAB GRINDING SHOWN ON ARCHITECTURAL DEMOLITION DRAWINGS FOR REFINISHING OF EXISTING FLOORS IS APPROXIMATE AND MAY NOT REPRESENT FULL EXTENT OF THIS WORK. CONTRACTOR SHALL VERIFY FULL EXTENTS OF THIS WORK WITH FINISH PLANS AND SURFACE PREPARATION REQUIREMENTS OF SPECIFED NEW FLOOR FINISHES AS PER PROJECT SPECIFICATIONS.

11. WHERE FINISH FLOORING IS TO BE REMOVED, REMOVE ALL MATERIAL - I.E. FASTENERS, ADHEISIVES, AND BACKING, TO SLAB BELOW. PREPARE SLAB SURFACE FOR NEW FINISH AS PER REQUIREMENTS OF NEW WORK.

12. ALL OBSOLETE OR ABANDONED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT - I.E. CONDUIT, FITTINGS, DUCTWORK, HANGERS ,CONTROLS, FIXTURES, ETC - SHALL BE REMOVED. COORDINATE WITH MEP REMOVAL DRAWINGS.

13. WHERE PARTITIONS ARE REMOVED, REMOVE ALL ITEMS CONTAINED WITHIN - INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, FRAMES, SIDLIGHTS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE AND BELOW, UNLESS NOTED OTHERWISE.

14. ALL EXISTING CEILINGS SHALL BE REMOVED. WHERE CEILINGS ARE REMOVED, REMOVE CEILING FINISH AND SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED FASTENERS, FITTINGS, AND MEP EQUIPMENT. COORDINATE WITH MEP REMOVAL DRAWINGS.

15. SEE DEMOLITION KEYNOTES FOR SPECIFIC INFORMATION ON ITEMS TO BE REMOVED BY LOCATION

KEYED NOTES (DEMOLITION)

D1 REMOVE EXISTING OVERHEAD DOOR AND ALL FRAME/HARDWARE/MOTOR COMPONENTS BACK TO ROUGH OPENING

D2 REMOVE EXISTING DOOR(S) AND FRAME(S) TO ROUGH OPENING

D3 REMOVE EIFS PANEL FROM CONCRETE WALL/CMU. CLEAN CONCRETE/CMU TO PREPARE FOR NEW WATERPROOFING OR CLADDING - COORDINATE W/ NEW WORK

D4 CUT AND REMOVE SECTION OF DAMAGED EXISTING EIFS SYSTEM BACK TO SUBSTRATE. PREPARE SUBSTRATE FOR NEW PATCH AND REPAIR WORK AS PER EIFS-2 MANUF'S RECOMENDATION

D5 REMOVE EXISTING STOREFRONT GLAZING SYSTEM AND ALL FLASHING/TRIM/SILLS BACK TO ROUGH OPENING; DEMOLISH/GRIND OUT ANY MISC. STEEL AND BRACING IN OPENING UNLESS SPECIFICALLY NOTE TO REMAIN IN NEW WORK; PATCH AND REPAIR MASONRY FOR NEW CURTAIN WALL SYSTEM

D6 REMOVE PORTION OF EXTERIOR MASONRY WALL COMPLETELY. REMOVE EXISTING EIFS FINISH AS REQ'D TO TOOTH IN NEW CMU - REF. EXTERIOR ELEVATIONS

D7 REMOVE PART OF EXISTING FLOOR/ROOF IN PREPARATION FOR ELEVATOR SHAFT

D8 REMOVE EXISTING STAIR COMPLETELY

D9 REMOVE EXISTING INTERIOR WALL COMPLETELY

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D11 REMOVE EXISTING PLUMBING FIXTURES AND PLUMBING WALL CAVITY

D12 REMOVE EXISTING CMU COLUMN WRAP AND ANY TIE BACKS OR ANCHORS TO B.O. SLAB OR DECK ABOVE. PREPARE NEWLY EXPOSED STEEL FOR NEW FINISH - REF FINISH PLANS

D13 REMOVE EXISTING EXTERIOR CONCRETE WALL TO 6". SEE NEW WORK FOR EXTENTS. SAW CUT CONCRETE CLEANLY, ALIGNED WITH CMU JAMBS ABOVE TO CREATE CLEAN ROUGH OPENING FOR NEW CURTAIN WALL. PREP FOR NEW CMU WORK TO PATCH AND TOOTH IN NEW JAMB BLOCKS.

D14 SAW CUT AND DEMOLISH EXISTING SLAB AS REQ'D FOR COMPLETEION OF NEW MEP OR STRUCTURAL WORK BELOW SLAB. REGIONS DIMENSIONED SHALL BE REMOVED AS NOTED. ALL OTHER AREAS, GC SHALL COORDINATE ACTUAL REMOVAL REQUIREMENTS WITH NEW WORK.

D15 DEMOLISH EXISTING PLASTER CEILING AND SOFFIT WRAP AND ALL SUSPENSION - FRAMING, HANGERS, RODS, DECK CLIPS, ETC BACK TO DECK. CLEAN NEWLY EXPOSED STEEL DECK, JOIST AND FRAMING - REF. ARCHITECTURAL CEILING PLANS FOR ANY NEW FINISHES

D16 EXISTING CONCRETE FILL AT FORMER TRENCHES AND BASINS TO BE REMOVED OR GROUND DOWN TO DEPTH AS REQ'D TO PROVIDE NEW CONCRETE TOPPING SUBSTRATE. REF TO REQUIREMENTS OF NEW WORK. REF STRUCT

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D21 EXISTING STEEL AND GLASS WINDOW WALL TO BE PARTIALLY DEMOLISHED. REMOVE TOGGLE BOLTS RETAINING GLAZED PANELS. GLAZED PANELS SHALL BE CLEANED AND SALVAGED FOR RE-USE IN SLIDING PARTITIONS - REF NEW WORK. REMOVE OTHER FRAMING COMPONENTS OF GLAZED WALL AS REQ'D - REF NEW ARCHITECTURAL ELEVATIONS FOR EXTENTS.

D22 CLEAN EXISTING STEEL AND GLASS WINDOW WALL TO REMAIN; PROVIDE TEMPORARY SUPPORT AND PROTECT IN PLACE - REFERENCE STRUCTURAL

D23 SAW CUT STRAIGHT AND DEMOLISH CONCRETE WALL BELOW STEEL AND GLASS TO BELOW F F E. AS REQ'D FOR NEW WORK - REF. ARCHITECTURAL DETAILS AT THIS LOCATION. CONCRETE PIERS AT COLUMN BASES SHALL REMAIN - REF. STRUCTURAL FOR EXTENTS OF WALL TO REMAIN.

D24 REMOVE MEZZANINE FLOOR SLAB AND FRAMING - REFER TO STRUCTURAL

D25 EXISTING CRANE RAIL AND ASSOCIATE EQUIPMENT TO BE RETAINED. PROTECT IN PLACE

D26 DEMOLISH EXISTING SLAB AS REQUIRED FOR NEW KITCHEN EQUIPMENT - REFERENCE STRUCTURAL

D27 REFERENCE PLUMBING DRAWINGS FOR WORK ASSOCIATED WITH NEW COMMERCIAL KITCHEN EQUIPMENT IN THIS AREA. REMOVE OR MODIFY SLABS AS REQ'D

D28 DEMOLISH EXTERIOR LIGHT FIXTURE, PREPARE EXISTING EIFS FOR PATCH AND REPAIR

D29 DEMOLISH EXTERIOR SIGNAGE AND ALL RELATED FASTENERS AND HARDWARE - PREPARE EXISTING EIFS FOR PATCH AND REPAIR

D30 SALVAGE EXISTING WHEEL STOP - REPAIR CONCRETE SUBSTRATE AND PREPARE FOR NEW FINISH WORK

D31 DEMOLISH EXISTING CANOPY FASCIA, FLASHING, EPDM MEMBRANE AND SOFFIT MATERIAL AS REQ'D TO ACCOMODATE NEW WORK IN THIS AREA - REF ARCHITECTURAL DETAILS

D32 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW ROOF PENETRATION - COORDINATE WITH ARCHITECTURAL AND M.E.P. NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS

D33 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL DECK FOR NEW SKYLIGHT - COORDINATE WITH ARCHITECTURAL AND STRUCT NEW WORK. PROVIDE TEMPORARY ENCLOSURE AT ALL NEW ROOF PENETRATIONS

D34 SALVAGE EXISTING GLAZED TILE AND BULLNOSE TRIM. REUSE FOR PATCHING AT MEZZANINE LEVEL. SEE PLANS & INTERIOR ELEVATIONS FOR EXTENT OF NEW WORK.

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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

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DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dagmara Larsen
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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1	2023.06.09	BID DOCUMENTS

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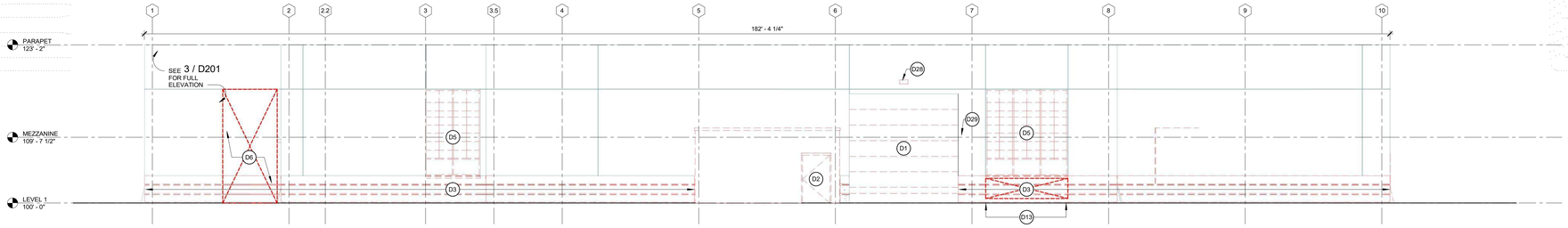
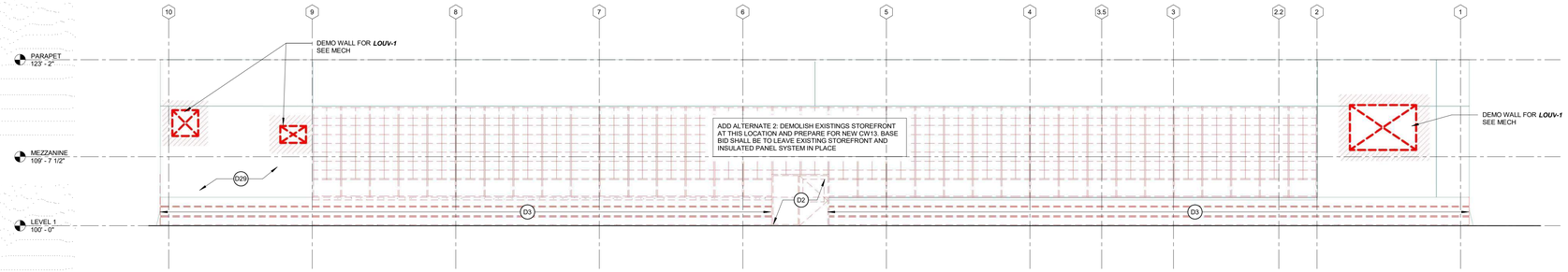
ROOF DEMOLITION - SOUTH

D103S



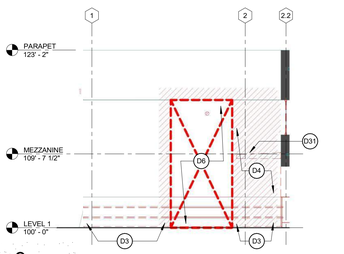
1 DEMO ELEVATION - NORTH

D201 1/8" = 1'-0"



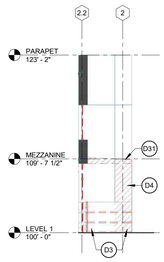
2 DEMO ELEVATION - SOUTH

D201 1/8" = 1'-0"



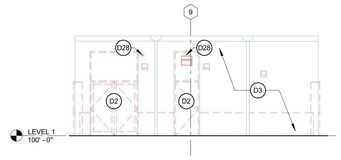
3 DEMO ELEVATION - PARTIAL NORTH

D201 1/8" = 1'-0"



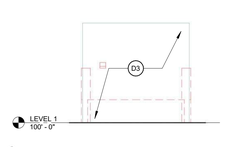
4 DEMO ELEVATION - PARTIAL SOUTH

D201 1/8" = 1'-0"



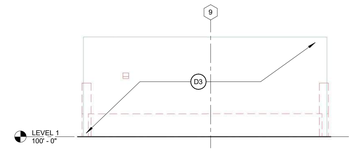
5 ANCILLARY BUILDING - NORTH

D201 1/8" = 1'-0"



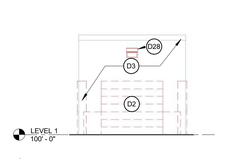
6 ANCILLARY BUILDING - EAST

D201 1/8" = 1'-0"



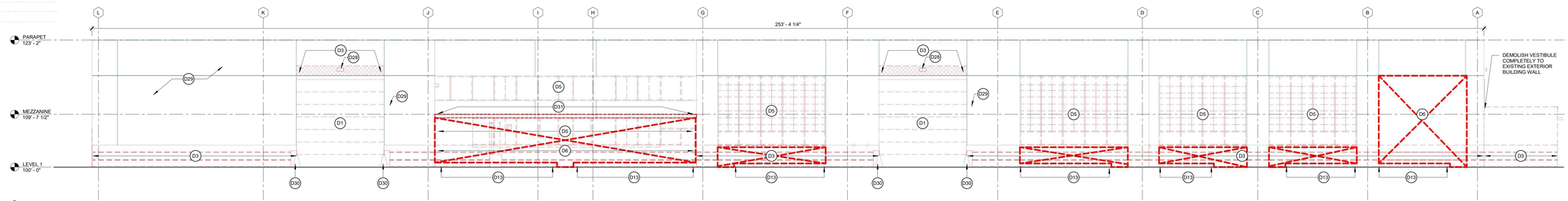
7 ANCILLARY BUILDING - SOUTH

D201 1/8" = 1'-0"



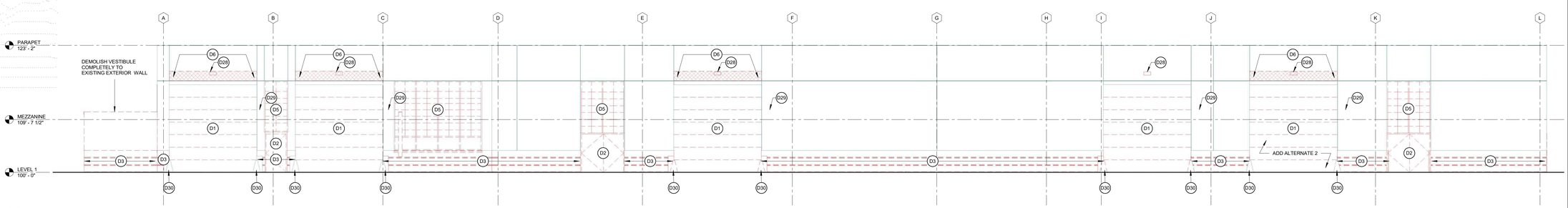
8 ANCILLARY BUILDING- WEST

D201 1/8" = 1'-0"



9 DEMO ELEVATION - EAST

D201 1/8" = 1'-0"



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Commercial Kitchen Design

Boelter Premier
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Project No: 20190006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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1	2023.06.09	BID DOCUMENTS

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DEMOLITION ELEVATIONS

D201

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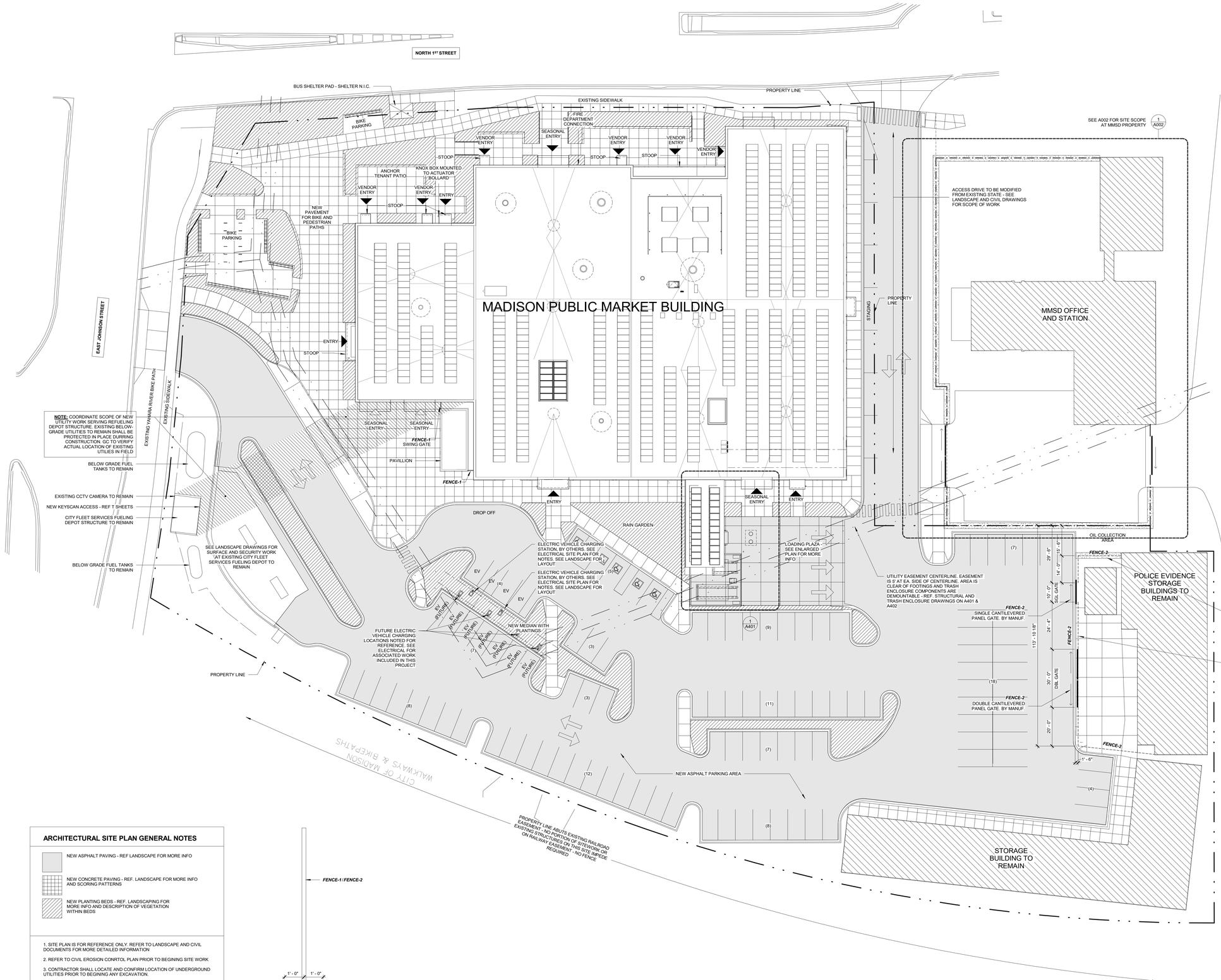


ARCHITECTURAL SITE PLAN GENERAL NOTES

NEW ASPHALT PAVING - REF LANDSCAPE FOR MORE INFO

NEW CONCRETE PAVING - REF. LANDSCAPE FOR MORE INFO AND SCORING PATTERNS

NEW PLANTING BEDS - REF. LANDSCAPING FOR MORE INFO AND DESCRIPTION OF VEGETATION WITHIN BEDS

1. SITE PLAN IS FOR REFERENCE ONLY. REFER TO LANDSCAPE AND CIVIL DOCUMENTS FOR MORE DETAILED INFORMATION

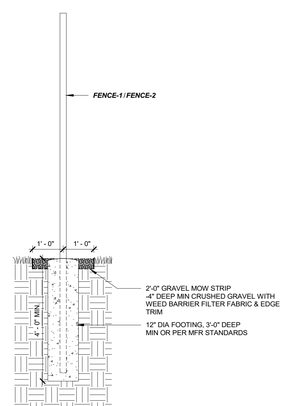
2. REFER TO CIVIL EROSION CONRTOL PLAN PRIOR TO BEGINING SITE WORK

3. CONTRACTOR SHALL LOCATE AND CONFIRM LOCATION OF UNDERGROUND UTILITIES PRIOR TO BEGINING ANY EXCAVATION.

4. CONTRACTOR IS RESPOSIBLE FOR EXCAVATION AND HAULING OF DISTURBED CONTAMINATED SOILS. COORDINATE WITH OWNER FOR EXISTING HAZARDOUSE SOILS REPORT AND NOTIFY OWNER AND ARCHITECT IF CONTAMINATED SOILS ARE ENCOUNTERED ON SITE.

5. THIS CONTRACT INCLUDES WORK ON ADJACENT MMSD SITE AND EASMEMENT. SEE SITE PLAN FOR EXTENTS OF WORK

6. SEE ENLARGED TRASH AND LOADING AREAS PLAN ON A401 FOR MORE INFO IN TRASH AND LOADING AREA



2 TYP. FENCE
A001 1/2" = 1'-0"

1 SITE PLAN
A001 1" = 20'-0"

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Landscape Architect
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Commercial Kitchen Design
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7120 Northland Terrace.
Minneapolis, MN 55428 | 763. 544. 8800

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

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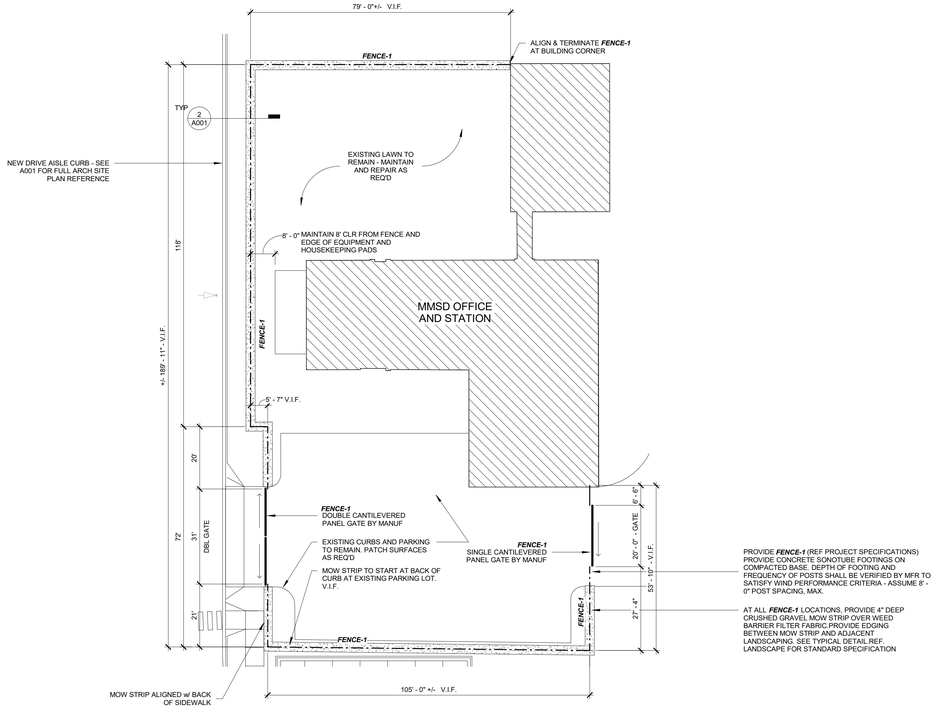
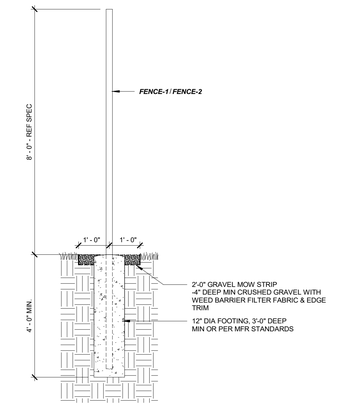
SITE PLAN

A001



1 SITE PLAN - MMSD FENCE WORK
A002 1" = 20'-0"



2 TYP. FENCE AT MMSD
A002 1/2" = 1'-0"

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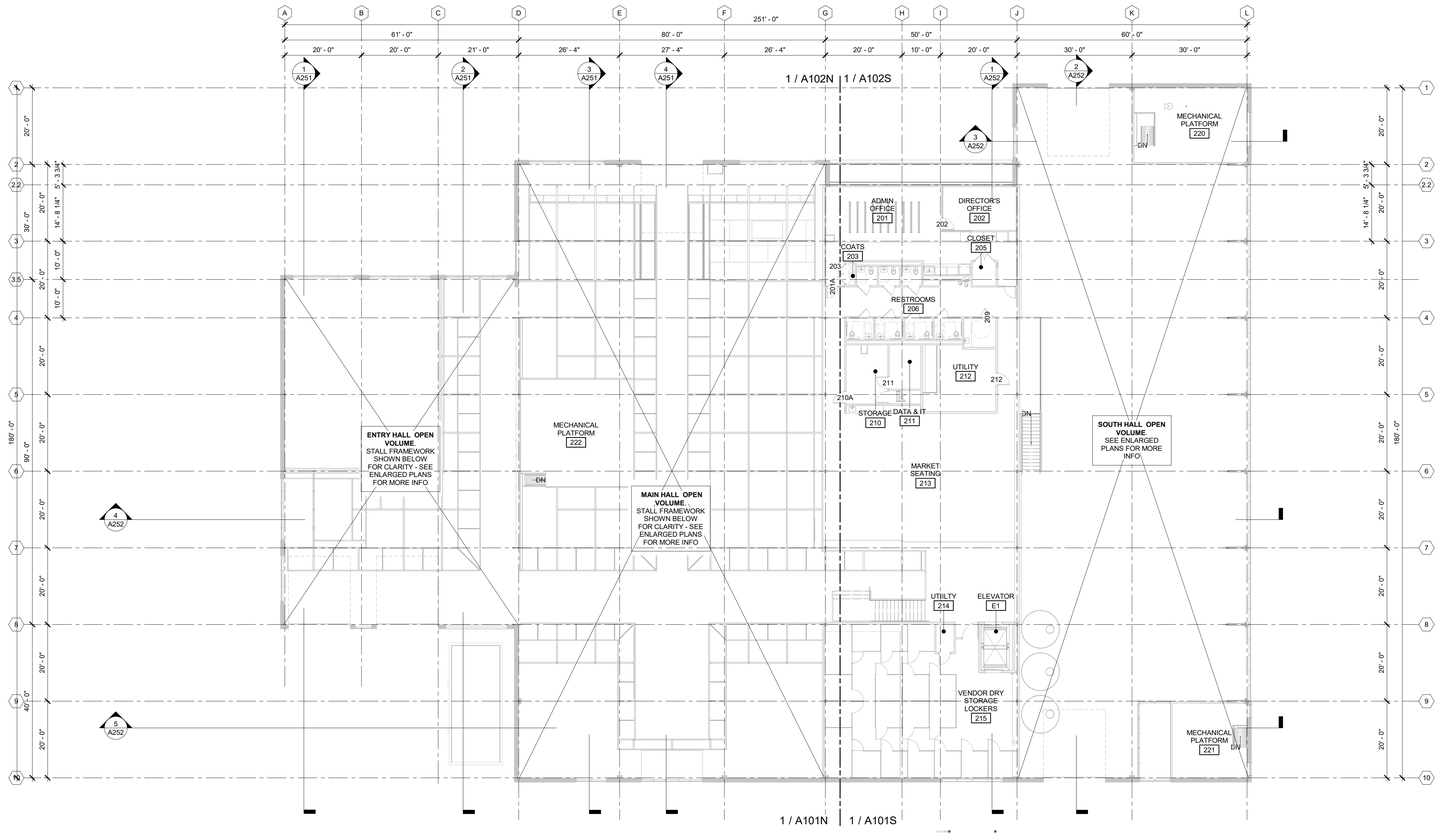
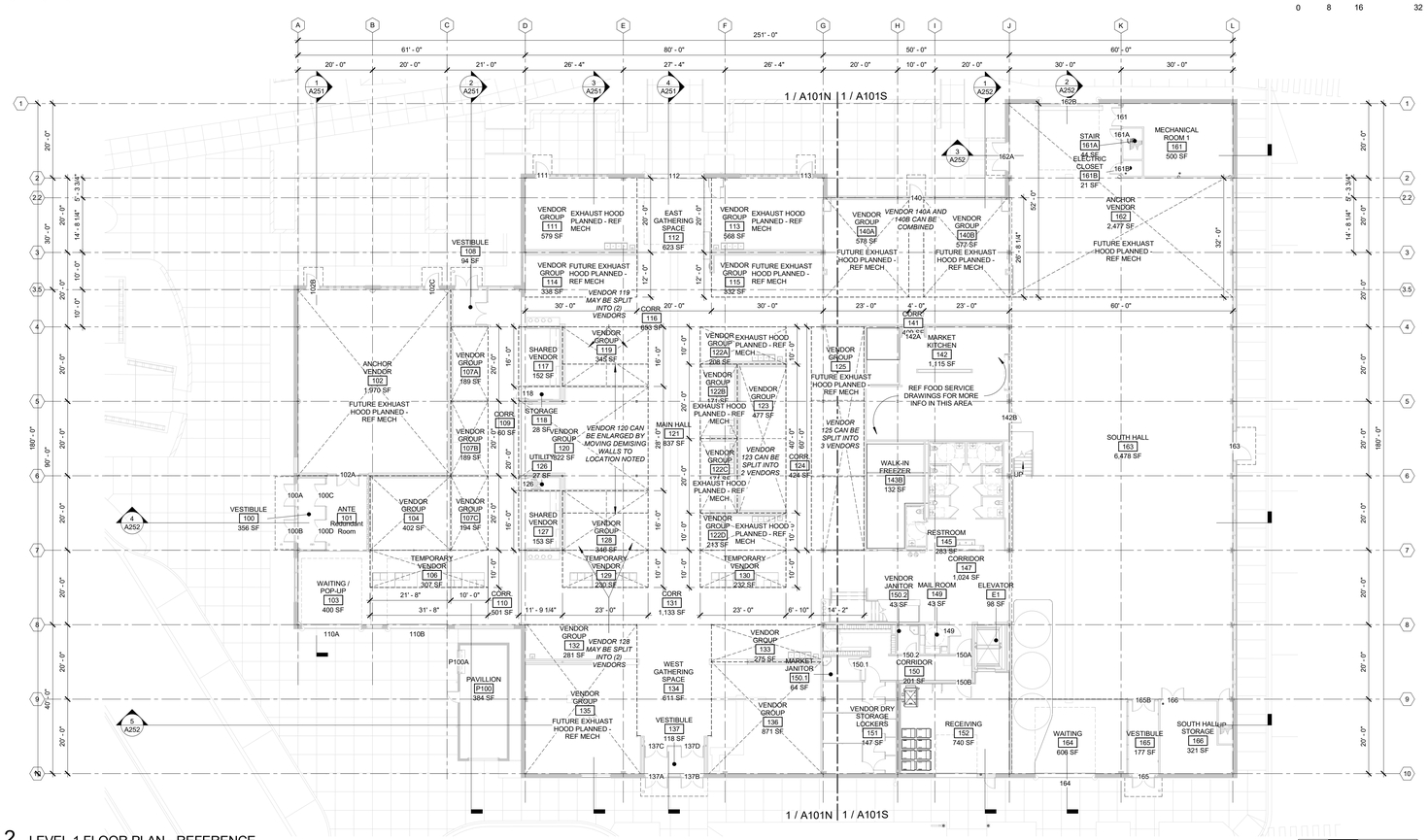
SITE PLAN - MMSD FENCING

A002



1 MEZZANINE LEVEL - REFERENCE
A101 1/16" = 1'-0"

0 8 16 32



2 LEVEL 1 FLOOR PLAN - REFERENCE
A101 1/16" = 1'-0"

0 8 16 32

FLOOR PLAN GENERAL NOTES

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DAGMARA K. LARSEN 13278-5 MINNEAPOLIS MN ARCHITECT — WISCONSIN

Signature

Print Name Dagmara Larsen

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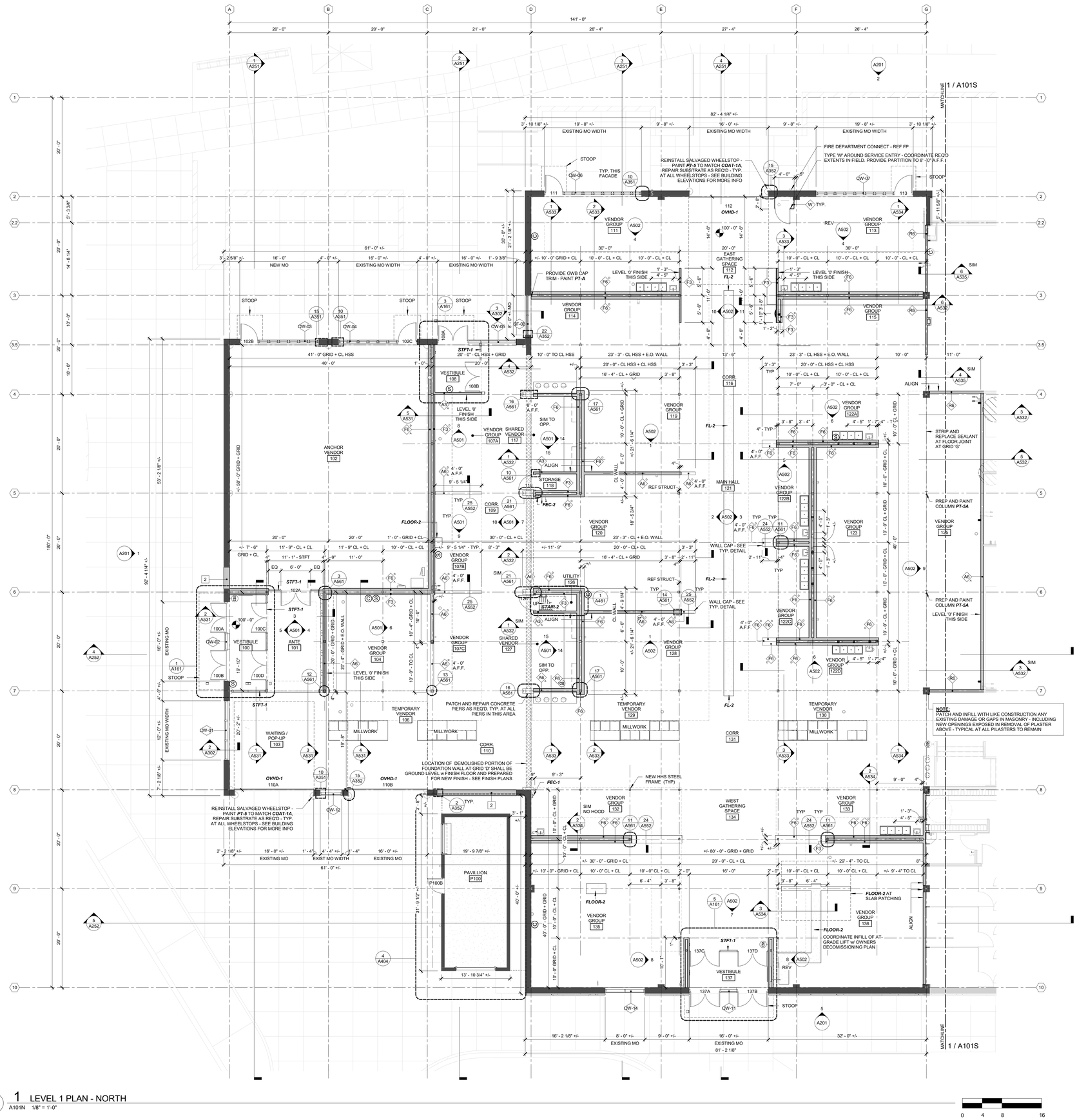
LEVEL 1 & MEZZANINE LEVEL REFERENCE PLANS

A101



1 LEVEL 1 PLAN - NORTH
A101N 1/8" = 1'-0"

0 4 8 16

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WALL AND PARTITION KEY

NEW WALLS AND PARTITIONS
EXISTING WALLS AND PARTITIONS

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LEVEL 1 - NORTH

A101N

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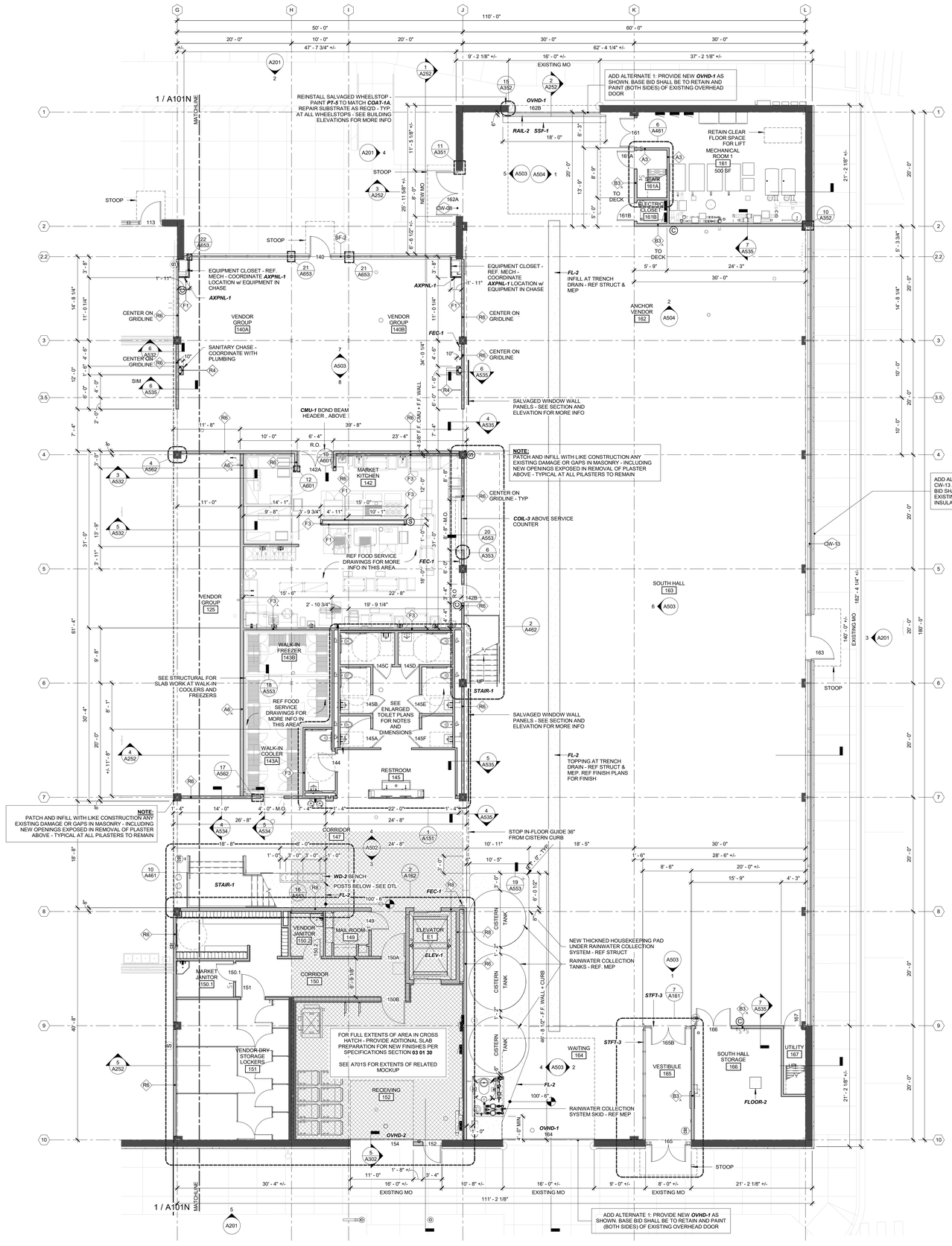

1 LEVEL 1 PLAN - SOUTH
A101S 1/8" = 1'-0"

0 4 8 16

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LEVEL 1 - SOUTH

A101S

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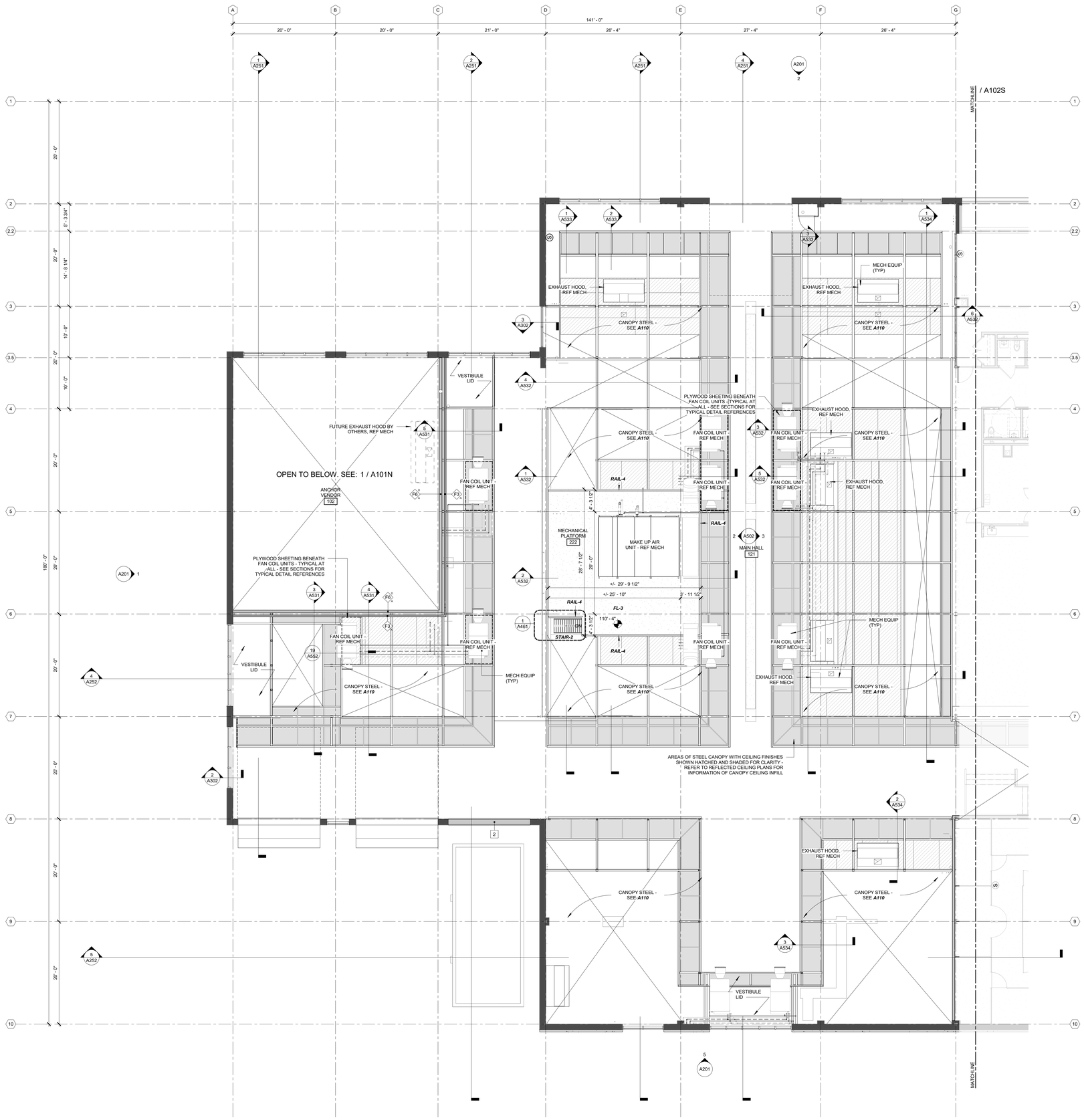

1 LEVEL 2 PLAN - NORTH
A102N 1/8" = 1'-0"

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12. AT LOCATIONS WHERE CONCRETE SLABS ON GRADE WERE DEMOLISHED TO ACCOMODATE NEW BELOW GRADE WORK, REPLACE SLABS WITH LIKE CONSTRUCTION TIED INTO EXISTING SLABS TO REMAIN PER TYPICAL STRUCTURAL NOTES AND DETAILS. GC SHALL COORDINATE ACTUAL EXTENTS OF REPLACEMENT WORK PER REQUIREMENTS OF **02 41 19 'SELECTIVE DEMOLITION'**. AT REPLACEMENT SLABS, PROVIDE FINISHES AS INDICATED ON FINISH PLANS
13. TO EXTENTS POSSIBLE, ALL EXISTING FLOOR FINISHES SHALL REMAIN, UNLESS OTHERWISE NOTED. PROTECT EXISTING FINISHES DURING CONSTRUCTION. REFER TO STRUCTURAL FOR PATCHING OF SLABS, UNLESS NOTED OTHERWISE - SEE FINISH PLAN FOR FINISHES OVER PATCHED AREAS (IF ANY).
14. ALL WORK IN VENDOR STALL AREAS NOT DESCRIBED IN THESE DOCUMENTS SHALL BE BY FUTURE TENANT INFILL PROJECTS. REFERENCE OTHER DISCIPLINES FOR FULL SCOPE OF WORK TO BE PERFORMED IN THESE AREAS UNDER THIS PROJECT.
15. SEE A110 SHEETS FOR ARCHITECTURAL STEEL CANOPY DRAWINGS AND GENERAL NOTES. SEE A110 SHEETS FOR ADDITIONAL INTERIOR WALL SECTION REFERENCES DESCRIBING GEOMETRY OF INTERIOR STEEL CANOPIES
16. SEE MILLWORK DRAWINGS FOR ALL CASEWORK SHOWN - FREESTANDING OR BUILT-IN.
17. SEE REFLECTED CEILING PLANS AND WALL SECTIONS FOR CONSTRUCTION ABOVE ALUMINUM STOREFRONT
18. SOME EQUIPMENT NOTED IN THESE DOCUMENTS SHALL BE OWNER FURNISHED AND OWNER INSTALLED. THESE LOCATIONS ARE NOTED IN DRAWINGS AND EQUIPMENT IS SCHEDULED IN OWNER PROVIDED EQUIPMENT LIST IN PROJECT SPECIFICATIONS. AT THESE LOCATIONS, GC SHALL PROVIDE ALL SERVICES - POWER, DATA, OPENINGS, BLOCKING, ETC FOR FUTURE OWNER INSTALLATION OF EQUIPMENT.
19. PROVIDE IN WALL BLOCKING AT ALL WALL MOUNTED SHELVING CASEWORK, FUTURE AV EQUIPMENT BY OWNER. TOILET ACCESSORIES ETC - LOCATIONS, COORDINATE WITH INTERIOR ELEVATIONS.
19. COORDINATE WITH BUILDING OWNER FOR REMOVAL OF ANY HAZARDOUS MATERIALS UNCOVERED OR DISCOVERED ON SITE.

WALL AND PARTITION KEY

NEW WALLS AND PARTITIONS
EXISTING WALLS AND PARTITIONS

Architecture and Interiors
MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer
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2901 Metro Drive. Suite 225.
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MADISON PUBLIC MARKET

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Project No: 2019006.00

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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MEZZANINE LEVEL - NORTH

A102N

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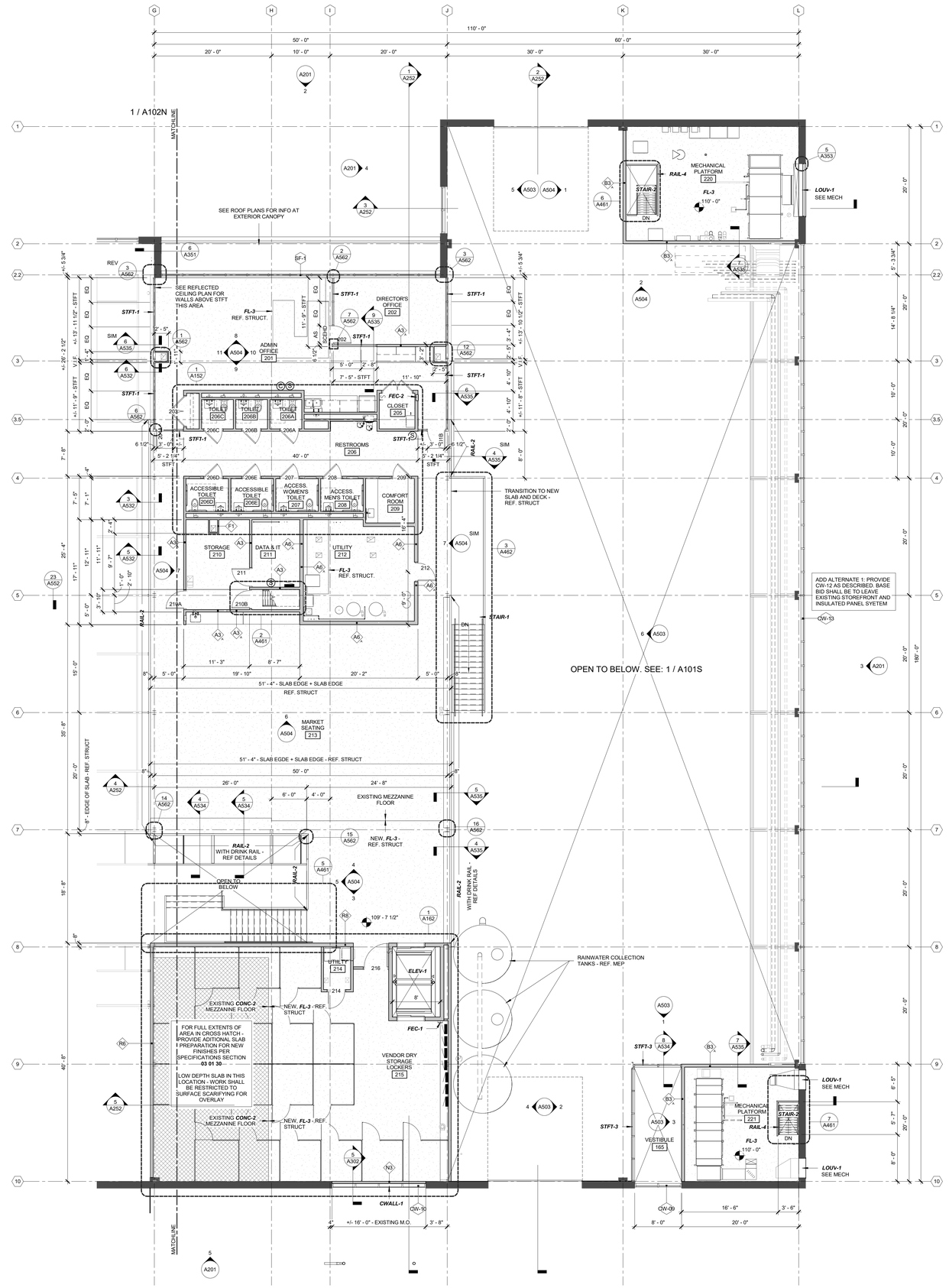

1 LEVEL 2 PLAN - SOUTH

A102S 1/8" = 1'-0"

0 4 8 16

FLOOR PLAN GENERAL NOTES

1. REFER TO FINISH PLANS FOR SPECIFIC MATERIAL FINISHES & TAGS. SHORT FORM MATERIAL I.D. LIST IS LOCATED ON SHEET G001 AND IS FOR REFERENCE ONLY. SEE INDIVIDUAL SPECIFICATION SECTIONS FOR MATERIAL I.D. INFORMATION. IN CASE OF DISCREPANCY, SPECIFICATION SHALL TAKE PRECIDENT
2. SEE LIFE SAFETY (CODE PLANS) FOR LOCATION AND RATINGS OF FIRE RATED WALL ASSEMBLIES
3. SEE WALL TYPES SHEETS FOR WALL ASSEMBLIES
4. AT ANY LOCATIONS WHERE PENETRATIONS ARE REQUIRED IN RATED WALL OR ASSEMBLIES PROVIDE FIRE CAULKING OR FIRE-STOPPING AS REQUIRED TO MAINTAIN NECESSARY RATING.
5. ELECTRICAL FIXTURES, DEVICES, ETC SHOWN ON ARCHITECTURAL PLANS ARE FOR REFERENCE ONLY. SEE ELECTRICAL FOR INFORMATION
6. SITE INFORMATION SHOWN IS FOR REFERENCE ONLY. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR SITE SCOPE.
7. REFER TO ELEVATIONS FOR GLAZING TYPES.
8. DIMENSIONS LABELED 'GRID' ARE TO STRUCTURAL GRID. DIMENSIONS LABELED 'CL' ARE TO CENTER LINE OF HSS COLUMN IN CANOPY ASSEMBLY. ALL OTHER DIMENSIONS ARE TO FINISH FACE OF WALL ASSEMBLY, UNLESS NOTED OTHERWISE.
9. EXISTING STRUCTURE - DIMENSIONS TO EXISTING ELEMENTS IN FIELD MAY VARY FROM WHAT IS INDICATED IN THESE DRAWINGS - GC SHALL BE RESPONSIBLE FOR IDENTIFYING AND COORDINATING COMMON DIMENSION POINTS ACCROSS ALL TRADES AND FULL SCOPE OF NEW WORK. DIMENSIONS WITH +/- SUFFIX MAY VARY. DIMENSIONS WITHOUT SHALL BE HELD
10. WALL TYPE TAGS REFER TO BASE WALL CONSTRUCTION . REFER TO FINISH PLANS, INTERIOR ELEVATIONS AND SYSTEMS DRAWINGS FOR WALL FINISHES ATTACHED TO BASE WALL TYPES
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Architect Seal

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MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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MEZZANINE LEVEL - SOUTH

A102S

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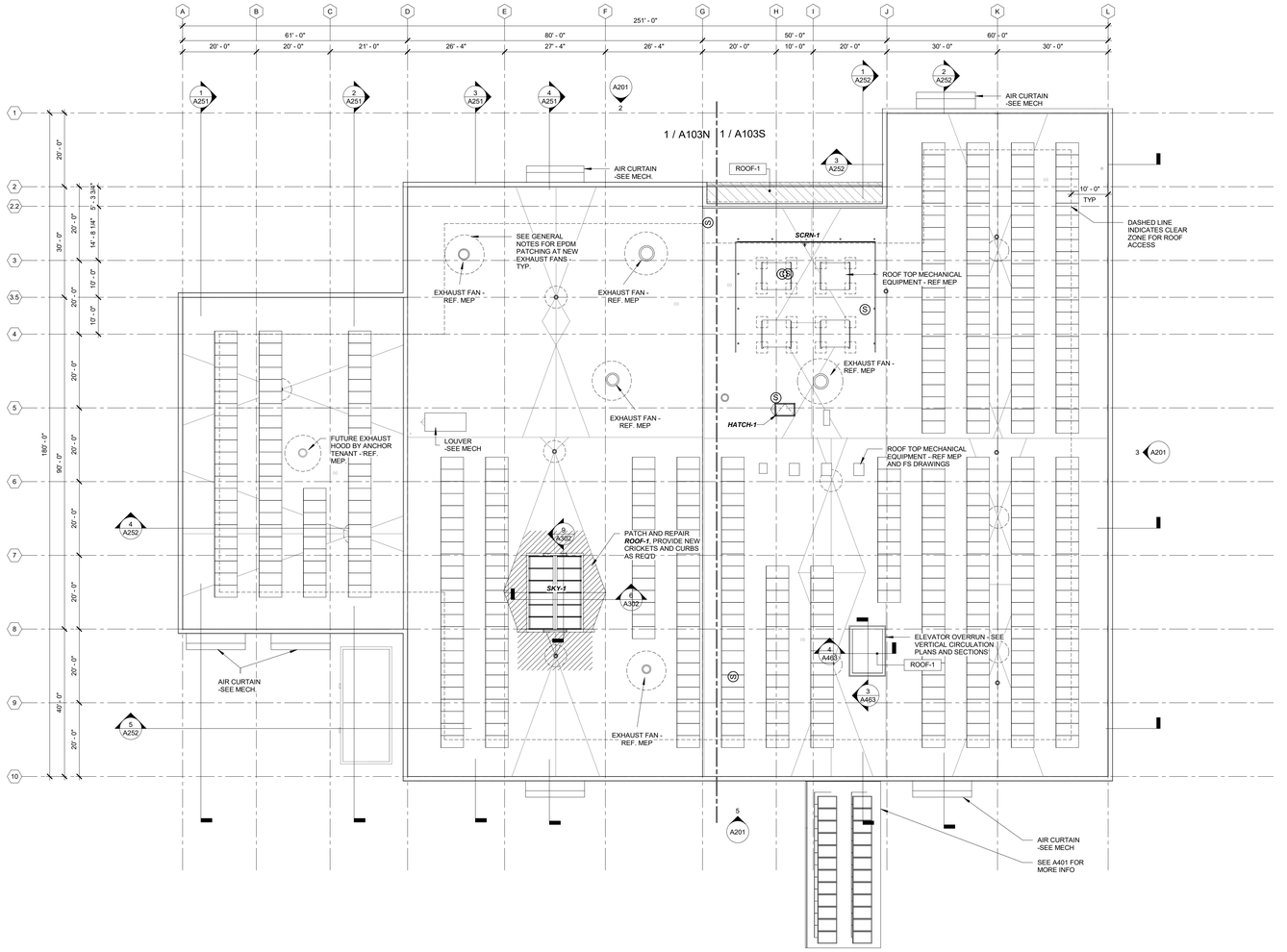

1 ROOF PLAN - REFERENCE
A103 1/16" = 1'-0"

0 8 16 32

ROOF PLAN GENERAL NOTES

1. PROTECT ALL EXISTING ROOF MEMBRANE TO REMAIN.
2. REPLACE / TIE-INTO EXISTING ROOFING AS NEEDED TO CREATE NEW OPENINGS, OVER RUNS AND PENETRATIONS PER REQUIREMENTS OF NEW WORK. GC IS RESPONSIBLE FOR DETERMINING EXTENT OF REMOVAL AND REPLACEMENT - REGIONS SHOWN IN PLAN ARE FOR REFERENCE ONLY.
3. PROVIDE PROTECTIVE MEMBRANE AND CATCH PAN AROUND EXHAUST HOODS PER EPDM MANUFACTURER RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
4. ALL NEW WORK OR MODIFICATION TO EXISTING ROOF SHALL BE DONE IN ACCORDANCE WITH ROOF MFR'S BEST PRACTICE AND SHALL NOT VOID ORIGINAL ROOF WARRANTY.
5. PHOTOVOLTAIC ARRAY SHOWN FOR REFERENCE - SEE ELECTRICAL SHEETS FOR MORE INFO
6. ALL EXISTING COPING CAP TO BE PAINTED, **P7-3D**. CONTRACTOR OPTION TO REPLACE IN FULL AT NO ADDED COST.
7. MECHANICAL EQUIPMENT SHOWN ON ARCHITECTURAL PLANS IS FOR REFERENCE ONLY - REFER TO MEP SHEETS FOR MORE INFORMATION
8. ALL ROOF DRAINS ARE NEW UNLESS NOTED OTHERWISE - REF PLUMBING DRAWINGS FOR MORE INFO. FOLLOW ROOF MFR'S BEST PRACTICES TO ENSURE WARRANTY.
9. PATCH ALL EXISTING PENETRATIONS IF NOT REUSED IN NEW WORK. NEW WORK SHALL BE IN ACCORDANCE WITH ROOF MFR'S BEST PRACTICES AND SHALL NOT VOID WARRANTY.

ADD ALTERNATE No. 3.
BASE BID SHALL BE TO COMPLETELY OMIT ALL DEMOLITION AND NEW WORK RELATED TO INSTALLATION OF PHOTOVOLTAIC ARRAY. ADD ALTERNATE SHALL BE TO PROVIDE PHOTO VOLTAIC ARRAY AS DESCRIBED IN FULL PROJECT DRAWINGS AND SPECIFICATIONS. SEE SPECIFICATIONS SECTION 01 23 00.

ADD ALTERNATE 3 NOTES
1. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATION SECTIONS FOR DESCRIPTION OF PHOTOVOLTAIC WORK
2. ACCEPTABLE PV ANCHORING IS DESCRIBED IN TYPICAL DETAILS REFERENCED ON ROOF PLANS.
3. TYPE AND FREQUENCY OF ANCHORING SHALL BE DETERMINED BY PV SUPPLIER / INSTALLER PER **26 31 00.**
4. ADD ALTERNATE 3 PRICING SHALL INCLUDE COST OF ANCHORING PV SYSTEM. PROVIDE PER INSTANCE PRICING FOR TYP ACCEPTABLE DETAILS.

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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ROOF PLAN

A103

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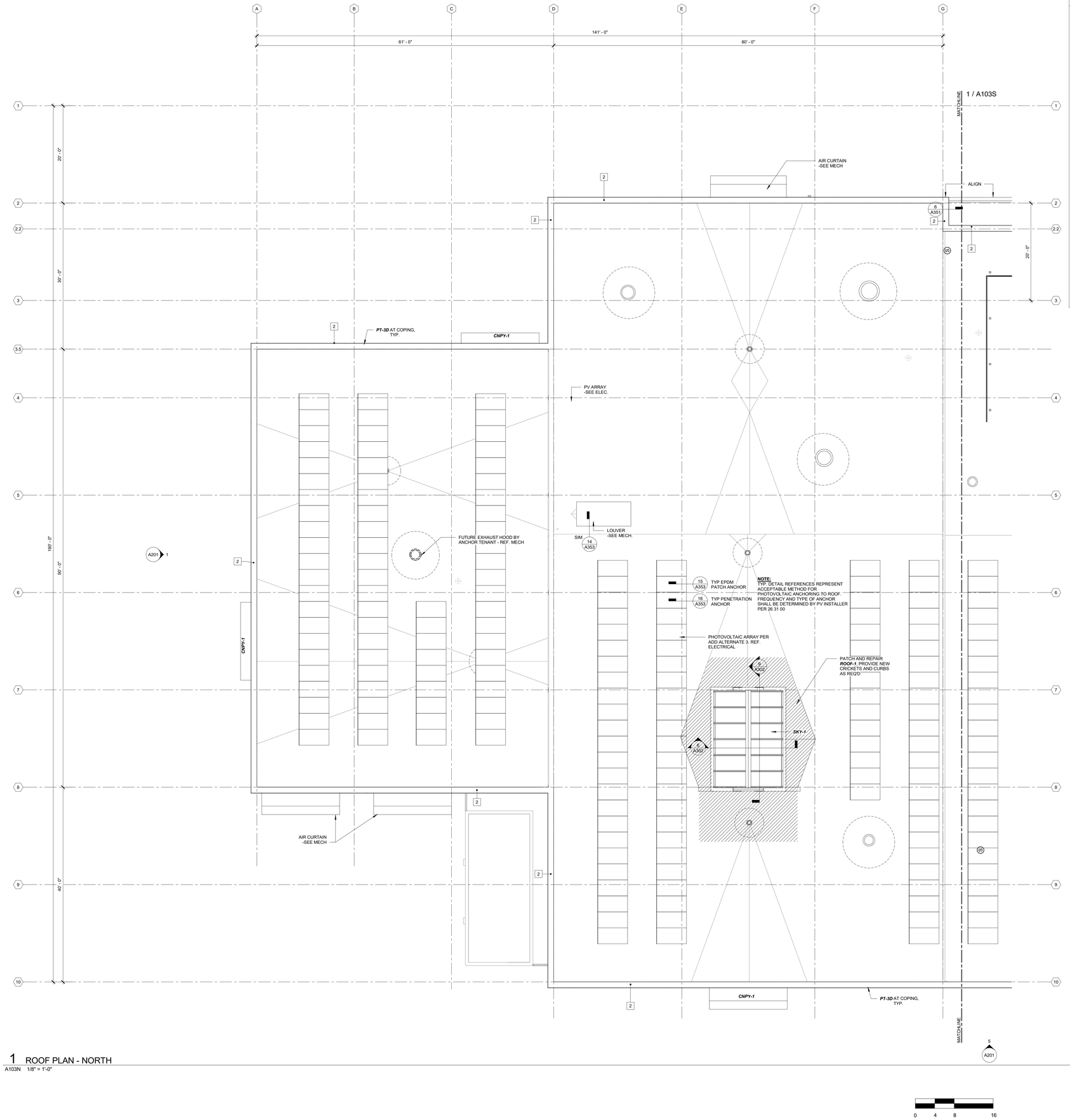

1 ROOF PLAN - NORTH
A103N 1/8" = 1'-0"

0 4 8 16

ROOF PLAN GENERAL NOTES

1. PROTECT ALL EXISTING ROOF MEMBRANE TO REMAIN.
2. REPLACE / TIE-INTO EXISTING ROOFING AS NEEDED TO CREATE NEW OPENINGS, OVER RUNS AND PENETRATIONS PER REQUIREMENTS OF NEW WORK. GC IS RESPONSIBLE FOR DETERMINING EXTENT OF REMOVAL AND REPLACEMENT - REGIONS SHOWN IN PLAN ARE FOR REFERENCE ONLY.
3. PROVIDE PROTECTIVE MEMBRANE AND CATCH PAN AROUND EXHAUST HOODS PER EPDM MANUFACTURER RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
4. ALL NEW WORK OR MODIFICATION TO EXISTING ROOF SHALL BE DONE IN ACCORDANCE WITH ROOF MFR'S BEST PRACTICE AND SHALL NOT VOID ORIGINAL ROOF WARRANTY.
5. PHOTOVOLTAIC ARRAY SHOWN FOR REFERENCE - SEE ELECTRICAL SHEETS FOR MORE INFO
6. ALL EXISTING COPING CAP TO BE PAINTED, ***PT-3D***. CONTRACTOR OPTION TO REPLACE IN FULL AT NO ADDED COST.
7. MECHANICAL EQUIPMENT SHOWN ON ARCHITECTURAL PLANS IS FOR REFERENCE ONLY - REFER TO MEP SHEETS FOR MORE INFORMATION
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ADD ALTERNATE 3 NOTES
1. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATION SECTIONS FOR DESCRIPTION OF PHOTOVOLTAIC WORK
2. ACCEPTABLE PV ANCHORING IS DESCRIBED IN TYPICAL DETAILS REFERENCED ON ROOF PLANS.
3. TYPE AND FREQUENCY OF ANCHORING SHALL BE DETERMINED BY PV SUPPLIER / INSTALLER PER **26 31 00.**
4. ADD ALTERNATE 3 PRICING SHALL INCLUDE COST OF ANCHORING PV SYSTEM. PROVIDE PER INSTANCE PRICING FOR TYP ACCEPTABLE DETAILS.

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ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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ROOF PLAN - NORTH

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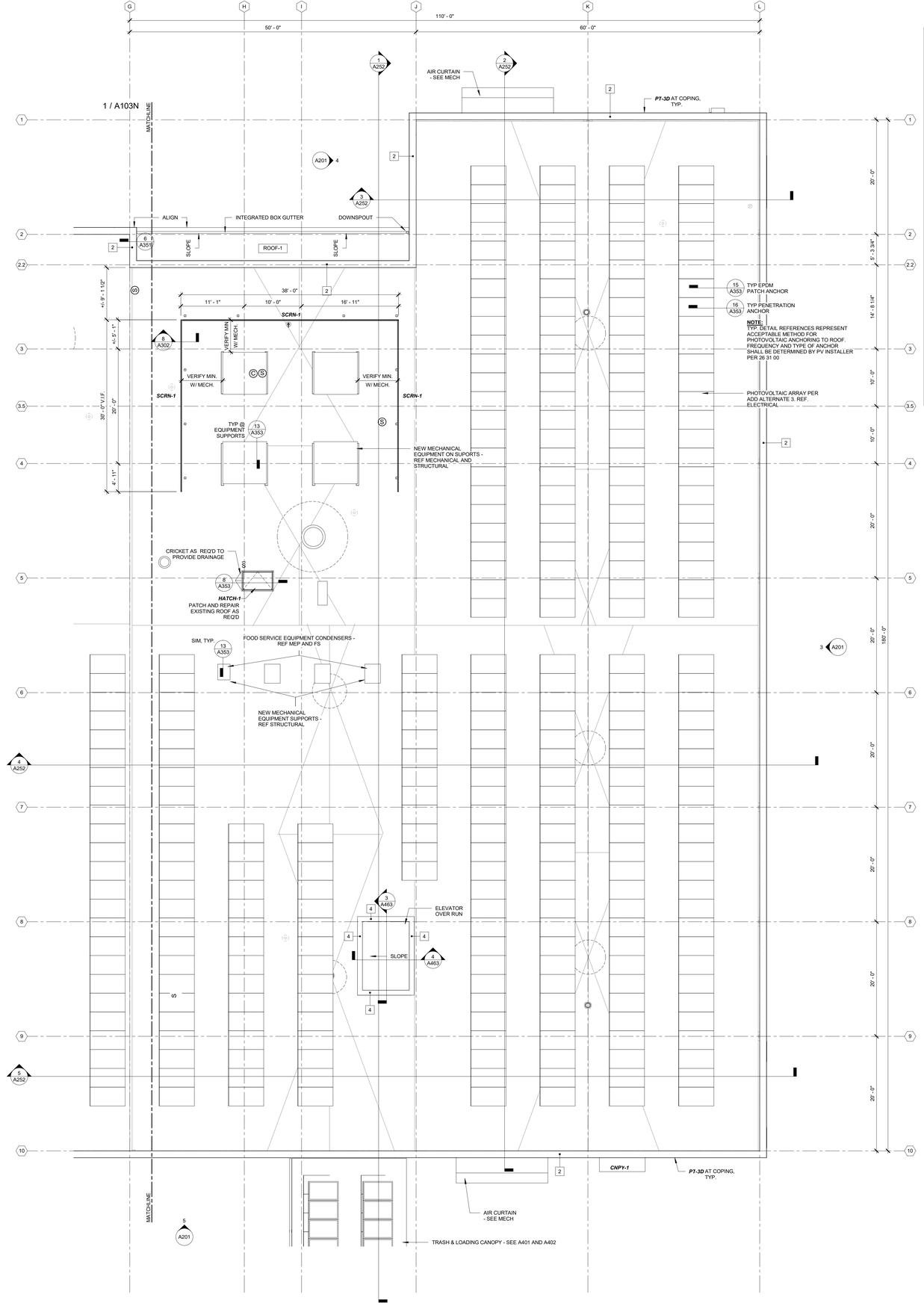

1 ROOF PLAN -- SOUTH

A103S 1/8" = 1'-0"

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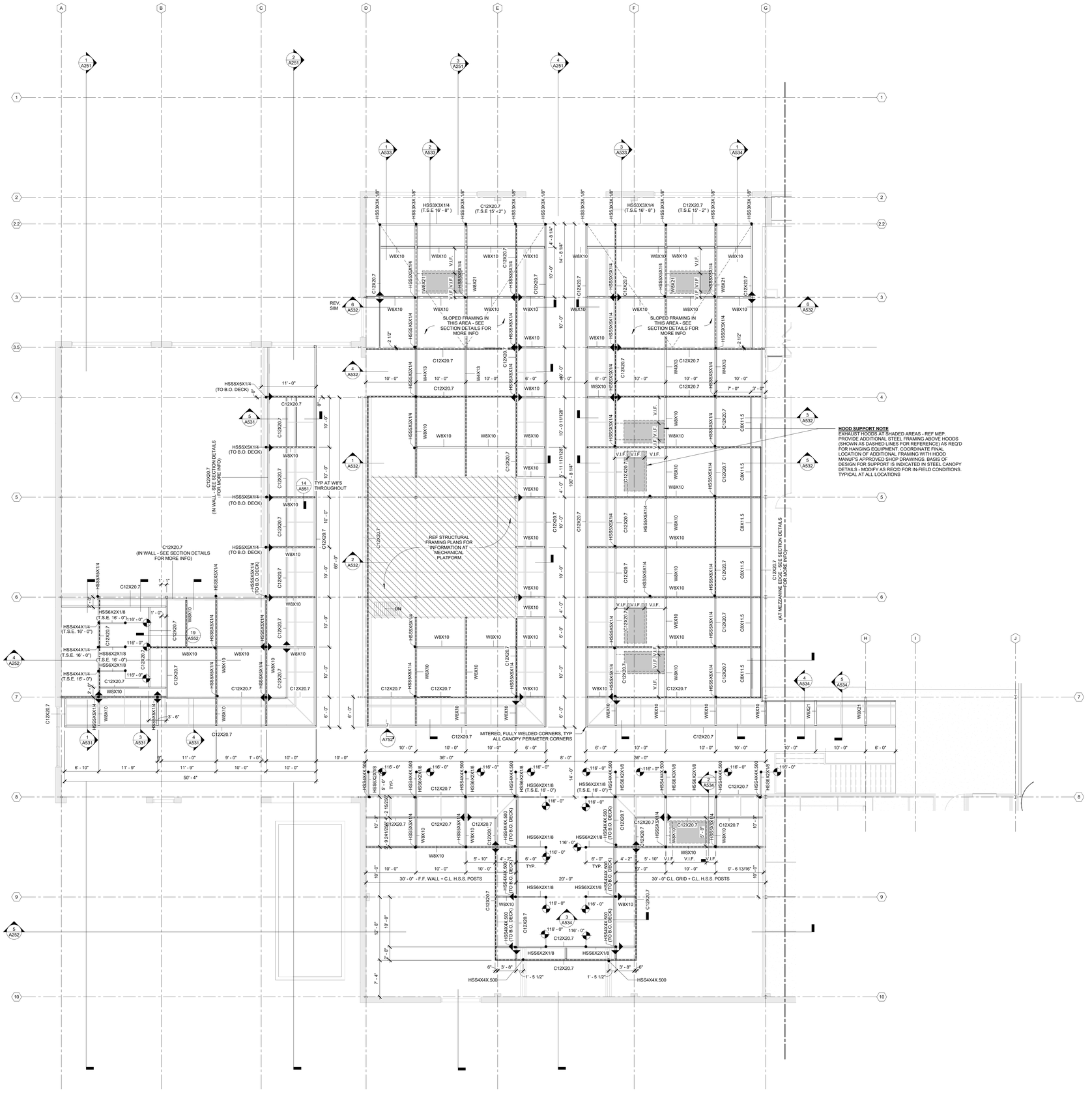
ROOF PLAN - SOUTH

A103S



1 LEVEL 1 PLAN - NORTH
A110 1/8" = 1'-0"

ARCHITECTURAL STEEL GENERAL NOTES

1. ARCHITECTURAL STEEL DRAWINGS DESCRIBE INTERIOR VENDOR CANOPIES ONLY. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL STEEL SCOPE.
2. ARCHITECTURAL STEEL DRAWINGS ONLY DESCRIBE WORK RELATED TO CONSTRUCTION OF INTERIOR VENDOR CANOPIES. OTHER MISCELLANEOUS STEEL FABRICATIONS OCCUR THROUGHOUT REMAINDER OF PROJECT. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF MISCELLANEOUS STEEL SCOPE
3. ALL DIMENSIONS ARE TO CL OF HSS POSTS U.N.O. AT SOME LOCATIONS, FRAMING IS OFFSET FROM CENTERLINES - SEE SECTIONS AND DETAILS FOR OFFSET INFORMATION
4. ALL STRUCTURAL CANOPY STEEL, BASEPLATES, CONNECTIONS ETC SHALL HAVE ***PT-7*** FINISH
5. ALL MISCELLANEOUS ***STRUT-1*** FRAMING IN CANOPIES SHALL BE PAINTED ***PT-3C***
6. T.S.E. FOR ALL WF SHAPES AND CHANNELS SHALL BE 10' - 0" A.F.F., U.N.O.
7. CANOPY SUPPORTS VARIOUS ***STRUT-_*** FRAMING ELEMENTS FOR INSTALATION OF INFILL PANELS BENEATH - SEE RCP. SECTIONS AND DETAILS FOR LAYOUT OF INFILL PANELS AND INFO ON SUGGESTED ***STRUT-_*** FRAMING. GC SHALL BE RESPONSIBLE FOR SELECTING FINAL ***STRUT-_*** SYSTEM COMPONENTS TO SATISFY DESIGN INTENT AND REQUIREMENTS, AND SHALL SUBMIT FULL SHOP DRAWINGS FOR COORDINATION WITH STRUCTURE AND INTEGRATED CEILINGS AND LIGHT FIXTURES.
8. ***STRUT-_*** COMPONENTS SHALL BE PROVIDED IN PLAIN CARBON STEEL READY FOR PAINTING WHEN POSSIBLE. GC SHALL PREPARE COMPONENTS FURNISHED IN GALVANIZED FINISH, PRIOR TO ARRIVING AT SITE, WITH SUITABLE TREATMENT TO STRIP REMNANT OILS AND CHEMICALS TO PROVIDE SUITABLE SUBSTRATE FOR PAINTING ***STRUT-_***
9. GC SHALL PROVIDE APPROVED SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT SUPPORTED BY CANOPY PRIOR TO PROVIDING STEEL CANOPY SHOP DRAWINGS.
10. MISCELLANEOUS SHAPES FIXED TO MAIN CANOPY ELEMENTS SHALL BE SHOP FABRICATED AND WELDED WHERE POSSIBLE.
11. PERIMETER SHAPES SHALL BE IN LONGEST POSSIBLE CONTINUOUS LENGTHS
12. SUPPORTED FRAMING SHALL BE CONTINUOUS LENGTHS
13. PREFABRICATE CANOPY ELEMENTS TO THE EXTENT POSSIBLE. FINAL ERECTION OF CANOPY IN FIELD SHALL BE VIA BOLTED CONNECTIONS WHERE POSSIBLE.
14. KNIFE PLATES AND DOUBLE ANGLES SHALL BE WELDED TO SUPPORTING SHAPES IN SHOP - BOLTED FASTENERS SHALL NOT BE EXPOSED AT EXTERIOR FACE OF PERIMETER CANOPY SHAPES UNLESS ABSOLUTLEY NECESSARY.
15. ARCHITECTURAL STEEL DRAWINGS DESCRIBE BASIS OF DESIGN FOR STEEL SHAPE, AND SIZE. SEE STRUCTURAL DRAWINGS ON SHEE S301 FOR TYPICAL CONNECTION SCHEDULES AND ANCHOR BOLT DETAILS. ALL TYPICAL STRUCTURAL NOTES SHALL APPLY.
16. ALL EXPOSED CANOPY FRAMING - THIS SHEET AND AT ALL OTHER LOCATIONS - SHALL BE **AESS CATEGORY 2 PER SPECIFICATION SECTION 05 12 23.**
17. ALL PERIMETER CANOPY CORNERS SHALL BE MITERED AND FULLY WELDED

FULLY-WELDED MOMENT CONNECTION

CONTINUOUS FRAMING PAST INTERSECTING FRAMING

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Project No: 2019008.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 License No 13278-5

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LEVEL 1 - CANOPY STEEL PLAN

A110

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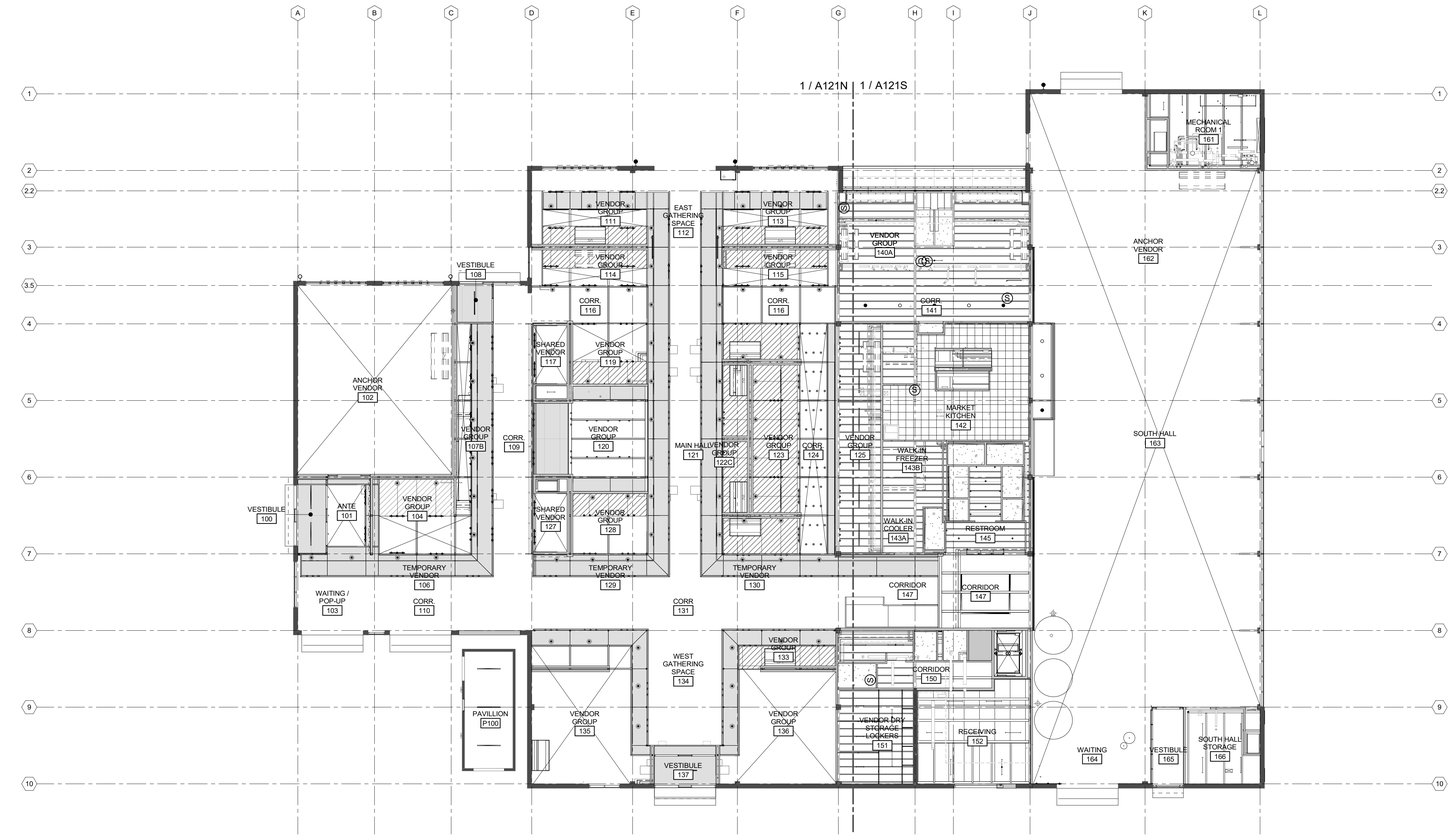
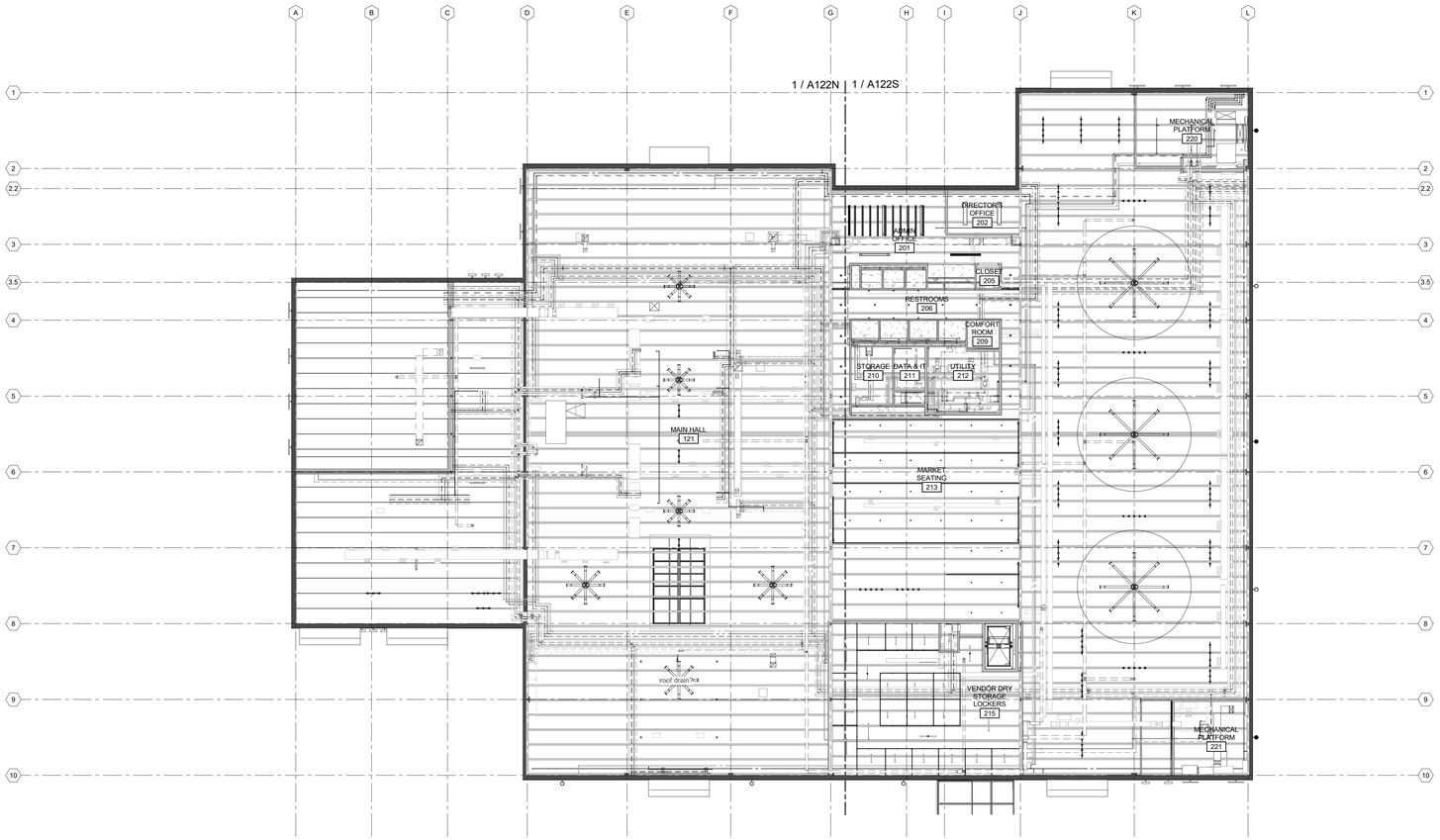


1 LEVEL 1 REFLECTED CEILING PLAN REFERENCE

A121 1/16" = 1'-0"



2 MEZZANINE REFLECTED CEILING PLAN

A121 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

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4. DUCTWORK, PIPING, CONDUIT, ETC RUN THROUGH AREAS WHERE CEILINGS AND DECKS ARE INDICATED TO BE PAINTED, SHALL BE PAINTED TO MATCH CEILING OR DECK
5. SEE MEP FOR LAYOUTS OF DUCTWORK, PIPING AND MAJOR MEP ITEMS. ALL ITEMS IN OPEN HIGH BAY SPACES ARE AESTHETICALLY SENSITIVE - DEVIATIONS FROM MEP DRAWINGS SHALL BE COORDINATED WITH ARHITECT ON SITE.
6. MEP ITEMS NOT SHOWN ON PLANS - BRANCH SPRINKLER PIPING, CONDUIT, ETC - COORDINATE LOCATIONS WITH ARHCHITECT - ROUTE WITH MAIN UTILITIES WHERE POSSIBLE.
7. STRUCTURAL DECK TO BE LEFT EXPOSED SHALL BE FREE FROM ANY CONSTRUCTION MATERIALS AND OBSOLETE EQUIPMENT.
8. LIGHTING AND DEVICE SYMBOLS ON THIS DRAWING INDICATE PRESENCE OF FIXTURE FOR LAYOUT, POSITION, AND COORDINATION PURPOSES. REFER TO MECHANICAL, ELECTRICAL AND LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.
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16. COORDINATE WITH BUILDING OWNER FOR REMOVAL OF ANY HAZARDOUS MATERIALS UNCOVERED OR DISCOVERED ON SITE.

CEILING TYPES LEGEND

- ***CEILING-5*** PT-1A, U.N.O.
- ***CEILING-1A/1B***
- ***CEILING-2A/2B*** OR ***SPAC-1*** AT DECK
- ***CEILING-3***
- EXPOSED

NOTE - OTHER SYSTEMS MAY BE PRESENT - SEE PLANS

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DAGMARA K. LARSEN
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MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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LEVEL 1 & MEZZANINE REFERENCE REFLECTED CEILING PLANS

A121

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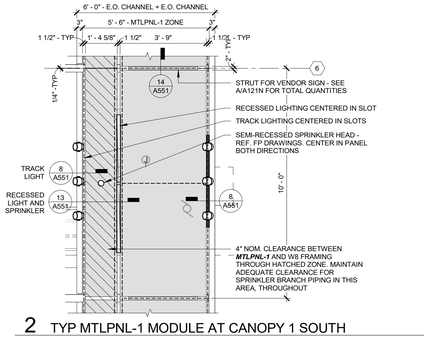
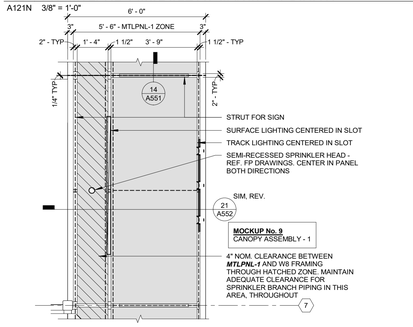
CEILING TYPES LEGEND

CEILING-5 PT-1A, U.N.O.	***CEILING-2A/2B*** OR ***SPAC-1*** AT DECK	EXPOSED
CEILING -1A/1B	***CEILING-3***	NOTE - OTHER SYSTEMS MAY BE PRESENT - SEE PLANS

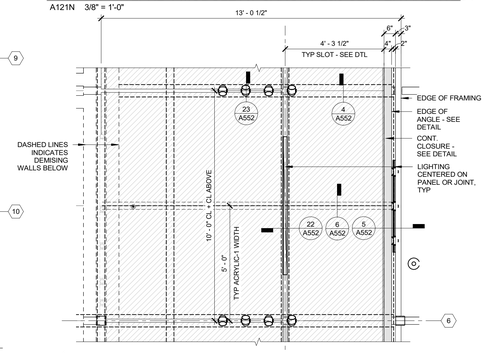
1 LEVEL 1 REFLECTED CEILING PLAN - NORTH
A121N 1/8" = 1'-0"



2 TYP MTLPNL-1 MODULE AT CANOPY 1 SOUTH
A121N 3/8" = 1'-0"



3 TYP MTLPNL-1 MODULE AT CANOPY 2&3 CENTER AND WEST
A121N 3/8" = 1'-0"



4 TYP ACRYLIC-1 MODULE AT CANOPY 3
A121N 3/8" = 1'-0"

MOCKUP No. 10
CANOPY ASSEMBLY - 2

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Architect Seal

WISCONSIN — DAGMARA K. LARSEN — 13278-5 — MINNEAPOLIS MN — ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

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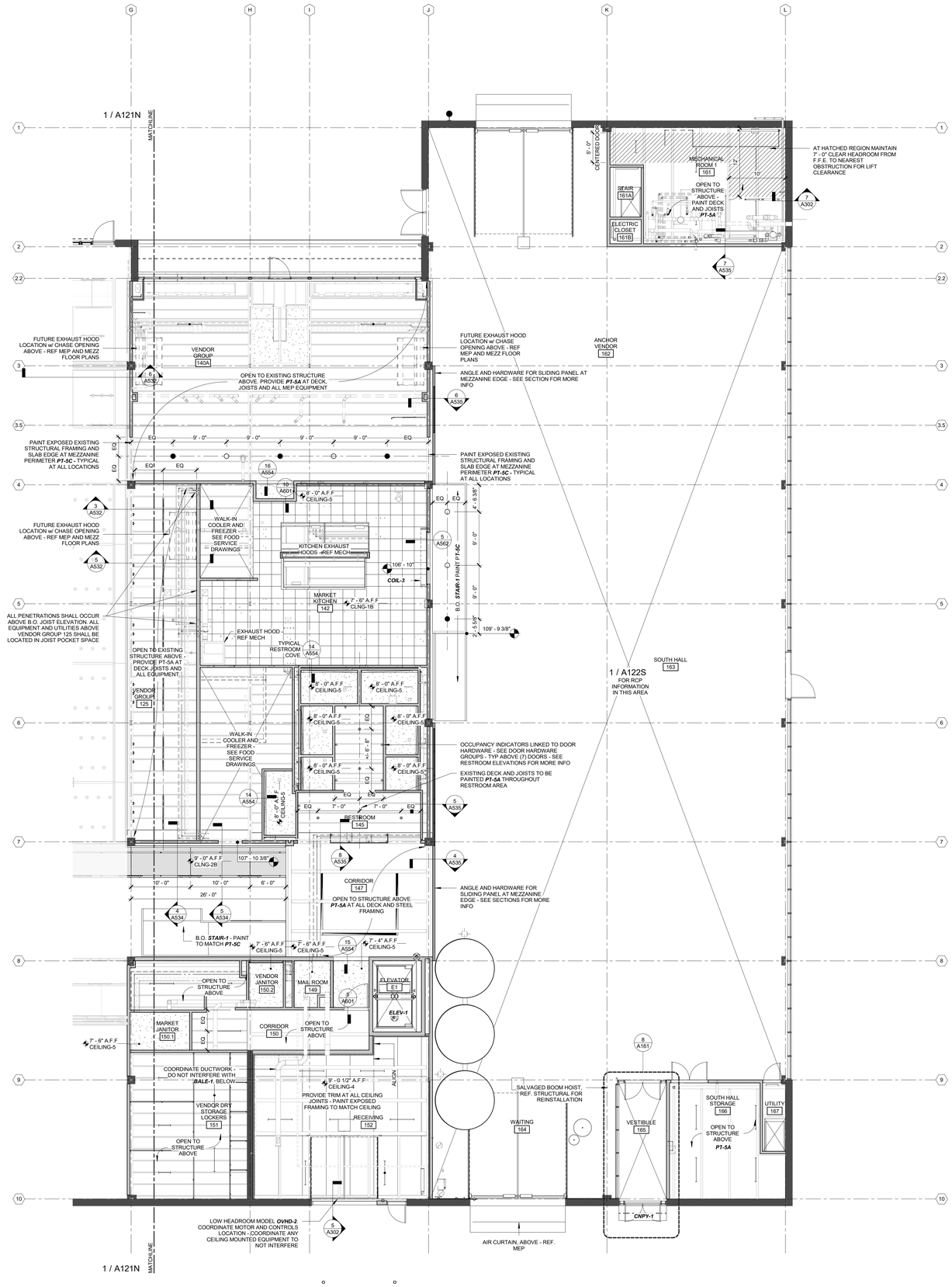
LEVEL 1 REFLECTED CEILING PLAN - NORTH

A121N



1 LEVEL 1 REFLECTED CEILING PLAN - SOUTH
A121S 1/8" = 1'-0"

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DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

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LEVEL 1 REFLECTED CEILING PLAN - SOUTH

A121S

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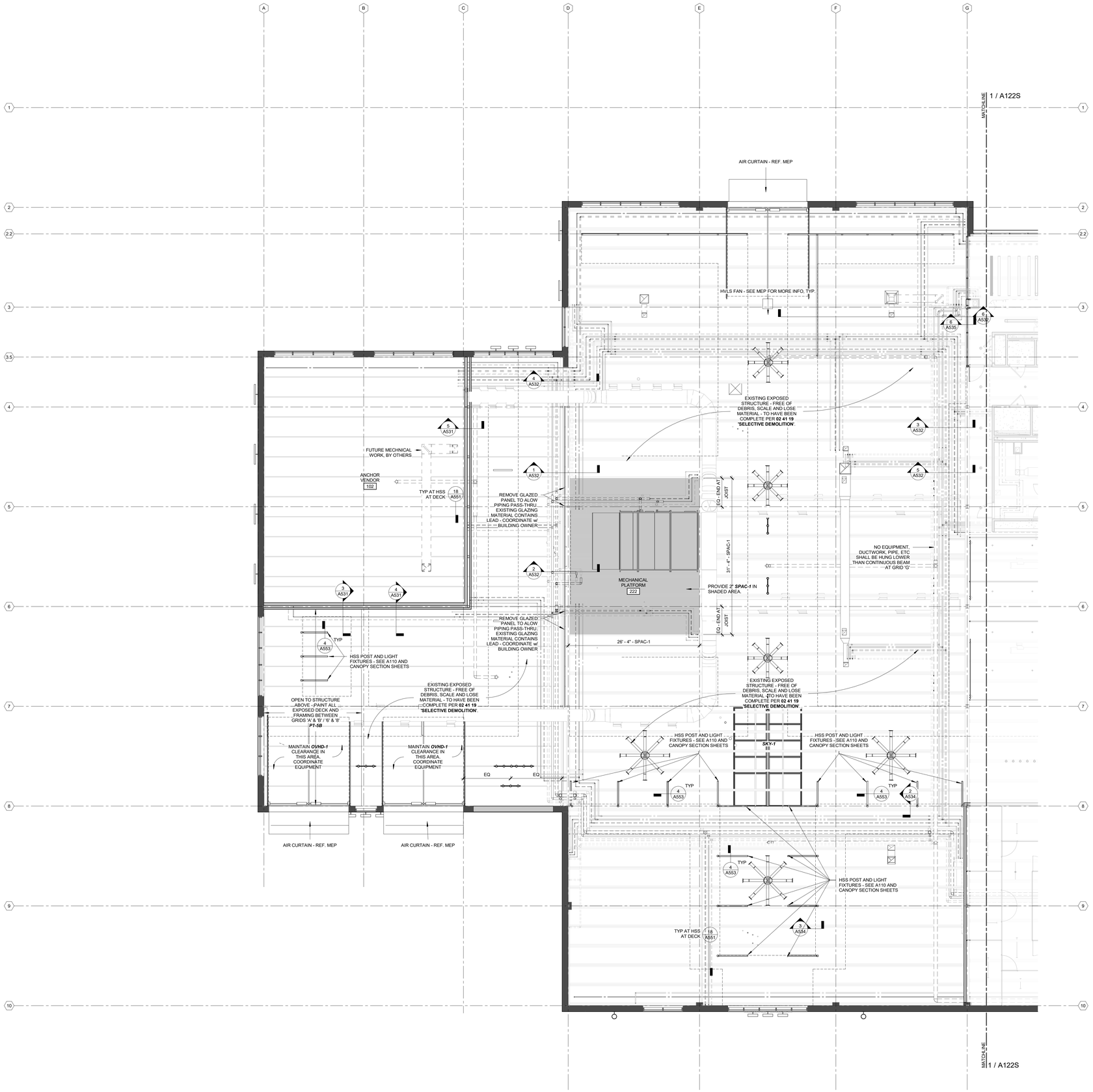

1 MEZZANINE REFLECTED CEILING PLAN

A122N 1/8" = 1'-0"

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15. 12. ALL FACE FASTENERS IN CEILING PANELS SHALL BE INSTALLED IN CONSITENT SPACING, ALIGNED AND JUSTIFIED. GC SHALL COORDINATE, AND SUBMIT FOR REVIEW, ALL REQUIRED SPACERS, FASTENERS, ETC TO ACHIEVE INSTALLATION DATUM INDICATED IN THESE DRAWINGS.
16. COORDINATE WITH BUILDING OWNER FOR REMOVAL OF ANY HAZARDOUS MATERIALS UNCOVERED OR DISCOVERED ON SITE.

CEILING TYPES LEGEND

CEILING-5 PT-1A, U.N.O.	***CEILING-2A/2B*** OR ***SPAC-1*** AT DECK	EXPOSED
CEILING -1A/1B	***CEILING-3***	NOTE - OTHER SYSTEMS MAY BE PRESENT - SEE PLANS

Architecture and Interiors

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Landscape Architect

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1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

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Boelter Premier

7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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1	2023.06.09	BID DOCUMENTS

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MEZZANINE LEVEL REFLECTED CEILING PLAN NORTH

A122N

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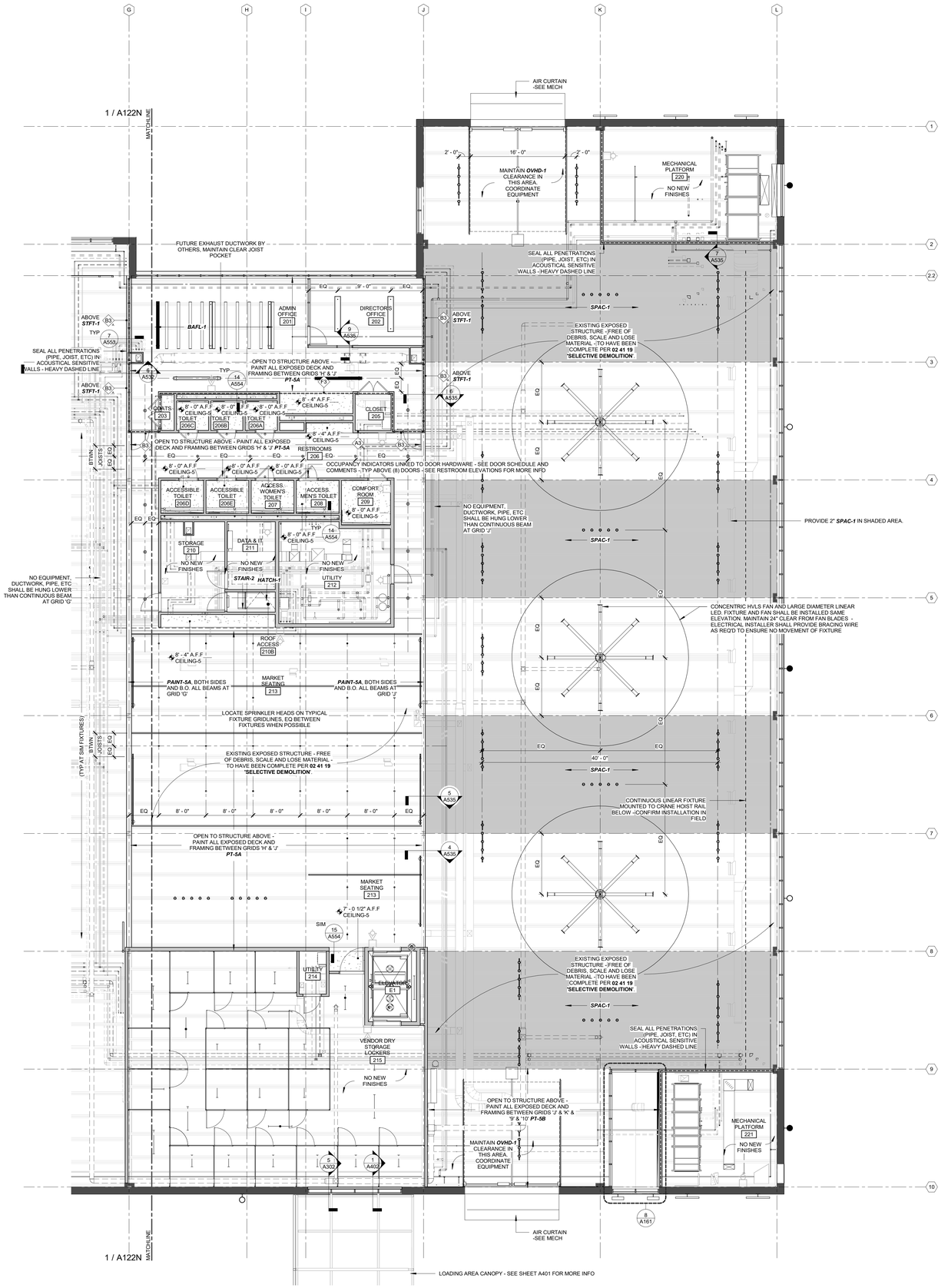

1 MEZZANINE REFLECTED CEILING PLAN

A122S 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. ALL EXISTING ROOF AND SLAB DECKS TO REMAIN, AS WELL AS RELATED STRUCTURAL EXPOSED STRUCTURAL FRAMING SHALL HAVE BEEN CLEANED AT CONCLUSION OF DEMOLITION PHASE AS PER REQUIREMENTS OF SECTION **02 41 19 'SELECTIVE DEMOLITION'** OF THE PROJECT SPECIFICATIONS . DO NOT INSTALL NEW FINISHES OVER, OR UNDERTAKE ADDITIONAL SURFACE PREPARATION ON SURFACES WHICH HAVE NOT BEEN CLEANED PER THIS REQUIREMENT.
2. ADDITIONAL SPECIFIC SURFACE PREPARATION MAY BE REQUIRED IN ADDITION TO CLEANING WORK PERFORMED IN DEMOLITION PHASE. REFER TO SPECIFIC SURFACE PREPARATION REQUIREMENTS OF NEW FINISHES AS DESCRIBED IN PROJECT SPECIFICATIONS.
3. BASE. EXTENTS OF NEW FINISHES APPLIED TO EXISTING SURFACES ARE DESCRIBED IN THESE REFLECTED CEILING PLANS. CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT IMMEDIATLEY OF EXISTING FINISHES WHICH NO LONGER MEET THE REQUIREMENTS OF CONTRACT FINISH DUE TO DAMAGE INCURRED DURRING CLEANING PROCESS.
4. DUCTWORK, PIPING, CONDUIT, ETC RUN THROUGH AREAS WHERE CEILINGS AND DECKS ARE INDICATED TO BE PAINTED, SHALL BE PAINTED TO MATCH CEILING OR DECK
5. SEE MEP FOR LAYOUTS OF DUCTWORK, PIPING AND MAJOR MEP ITEMS. ALL ITEMS IN OPEN HIGH BAY SPACES ARE AESTHETICALLY SENSITIVE - DEVIATIONS FROM MEP DRAWINGS SHALL BE COORDINATED WITH ARHITECT ON SITE.
6. MEP ITEMS NOT SHOWN ON PLANS - BRANCH SPRINKLER PIPING, CONDUIT, ETC - COORDINATE LOCATIONS WITH ARHCHITECT - ROUTE WITH MAIN UTILITIES WHERE POSSIBLE.
7. STRUCTURAL DECK TO BE LEFT EXPOSED SHALL BE FREE FROM ANY CONSTRUCTION MATERIALS AND OBSOLETE EQUIPMENT.
8. LIGHTING AND DEVICE SYMBOLS ON THIS DRAWING INDICATE PRESENCE OF FIXTURE FOR LAYOUT, POSITION, AND COORDINATION PURPOSES. REFER TO MECHANICAL, ELECTRICAL AND LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL LIGHTING AND DEVICES ARE DIMENSIONED FROM THE CENTER LINE OF THE COMPONENT TO CENTER LINE OF STRUCTURAL GRID
10. REFER TO 'G' SERIES SYSTEMS SHEETS FOR CEILING TYPES
11. REFER TO A110 SHEET FOR INFORMATION ON STEEL CANOPY FRAMING
12. SEE CANOPY SECTIONS REFERENCED ON 1/8" RCP FOR CONDITIONS AT CANOPY CEILING EDGES AND OTHER AREAS
13. DASHED LINES ON ENLARGED PLANS INDICATE VARIOUS STRUT-1 FRAMING ABOVE - SEE DETAILS FOR TYPE AND LOCATION. STRUT-1 FRAMING SUGGESTED REPRESENTS BASIS OF DESIGN - GC SHALL BE RESPONSIBLE FOR SELECTING FINAL SYSTEM COMPONENTS TO SATISFY DESIGN INTENT AND REQUIREMENTS
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CEILING TYPES LEGEND

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Architect Seal

DAGMARA K. LARSEN 13278-5 MINNEAPOLIS MN ARCHITECT WISCONSIN

Signature

Print Name Dagmara Larsen

Date 2023.06.09 License No 13278-5

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MEZZANINE LEVEL REFLECTED CEILING PLAN SOUTH

A122S

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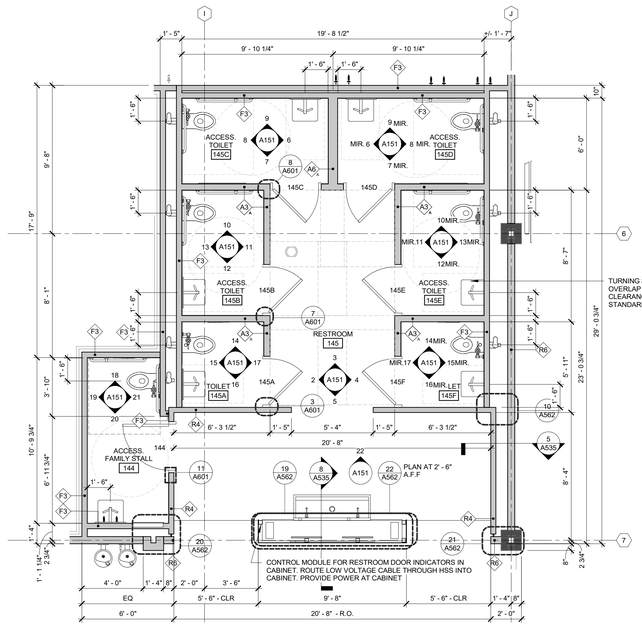
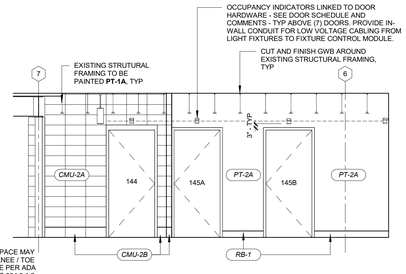


1 LEVEL 1 RESTROOM PLAN
A151 1/4" = 1'-0"



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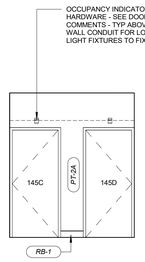

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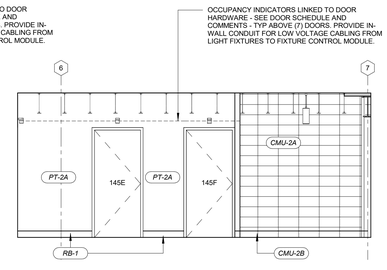

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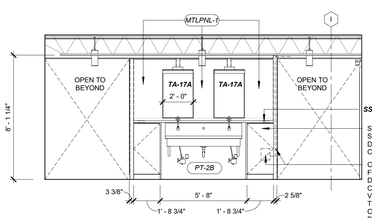
A151 1/4" = 1'-0"



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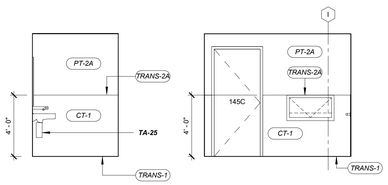
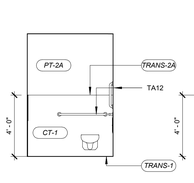


6 ADA TYPE 1 SIDE WALL
A151 1/4" = 1'-0"

7 ADA TYPE 1 DOOR ELEV
A151 1/4" = 1'-0"



8 ADA TYPE 1 WC ELEV
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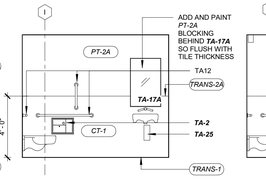

9 ADA TYPE 1 LAV ELEV
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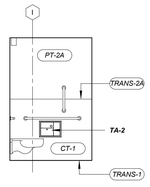

10 ADA 2 WC ELEV - E
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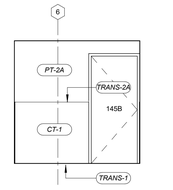

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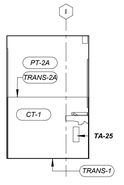

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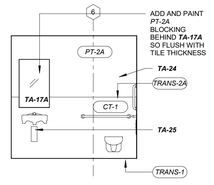

13 ADA 2 WC ELEV-N
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14 TYP STALL WC ELEV - E
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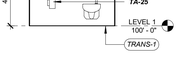
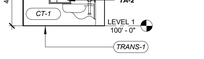


15 TYP STALL WC ELEV - N
A151 1/4" = 1'-0"

16 TYP STALL WC ELEV - W
A151 1/4" = 1'-0"

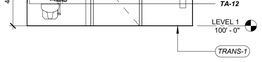
17 TYP STALL WC ELEV - S
A151 1/4" = 1'-0"



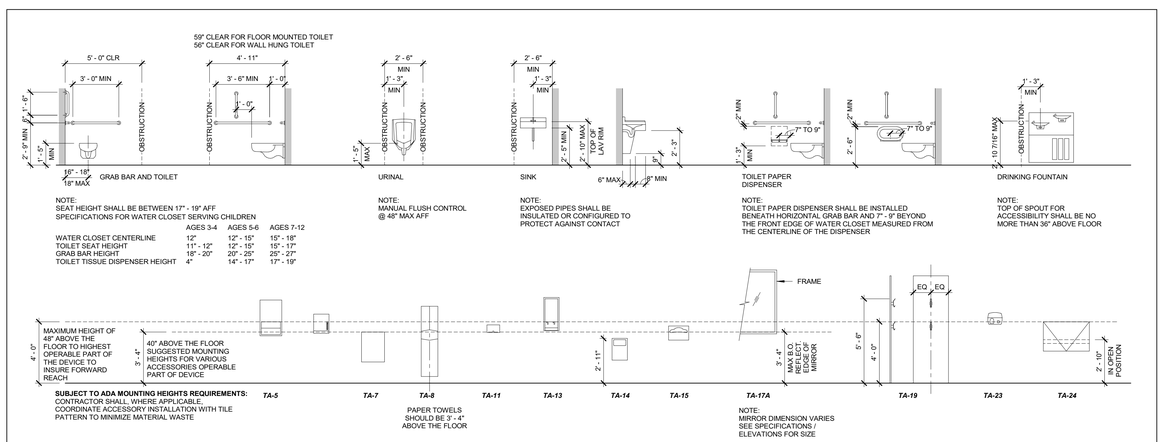
18 ACCESS FAMILY STALL EAST
A151 1/4" = 1'-0"

19 ACCESS FAMILY STALL NORTH
A151 1/4" = 1'-0"

20 ACCESS FAMILY STALL WEST
A151 1/4" = 1'-0"



21 ACCESS FAMILY STALL SOUTH
A151 1/4" = 1'-0"



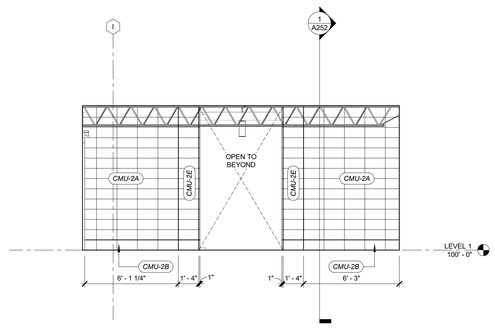
FIXTURE AND ACCESSORY MOUNTING HEIGHTS

ACCESSORIES SCHEDULE SOME ACCESSORIES DESCRIBED HERE MAY NOT BE USED ON THIS PROJECTS. SEE PLANS FOR SPECIFIC TYPES USED.

TA-2	COMBO TOILET TISSUE DISPENSER & SANITARY NAPKIN DISPLOSAL	TA-7	WASTE RECEPTACLE	TA-13	VENDOR	TA-19	HOOK
		TA-8	COMBINATION TOWEL (FOLDED) DISPENSER / WASTE RECEPTACLE	TA-14	SANITARY-NAPKIN DISPOSAL UNIT	TA-20	SHOWER CURTAIN ROD
TA-4	TOILET TISSUE DISPENSER JUMBO-ROLL	TA-9	COMBINATION TOWEL (ROLL) DISPENSER / WASTE RECEPTACLE	TA-15	SEAT-COVER DISPENSER	TA-21	FOLDING SHOWER SEAT
TA-5	PAPER TOWEL (FOLDED) DISPENSER	TA-10	MULITPURPOSE SOAP/TOWEL DISPENSER UNIT	TA-16	FOLD-DOWN PURSE SHELF	TA-22	SOAP DISH
		TA-11	LIQUID-SOAP DISPENSER	TA-17A	MIRROR UNIT (FRAMED)	TA-23	WARM-AIR DRYERS
		TA-12	GRAB BAR	TA-18	FACIAL TISSUE DISPENSER	TA-24	DIAPER-CHANGING STATION
						TA-25	LAV SHROUD

INDICATES MOUNTING TYPE
R = RECESSED
P = PARTITION
S = SURFACE
SR = SEMI RECESSED

REFER TO SPECIFICATION SECTION 102800 FOR ADDITIONAL REQUIREMENTS



22 145 RESTROOM ENTRY EAST
A151 1/4" = 1'-0"

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Architect Seal

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13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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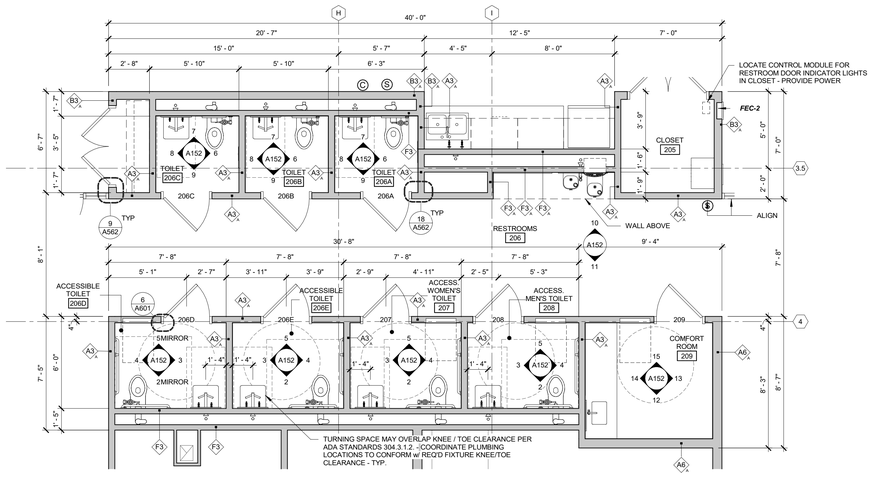
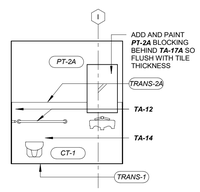
TOILET ROOM PLANS AND ELEVATIONS

A151



1 MEZZANINE LEVEL RESTROOM PLAN
A152 1/4" = 1'-0"



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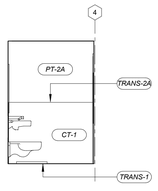

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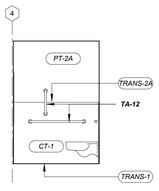

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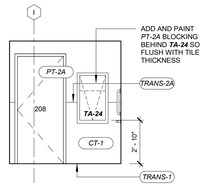

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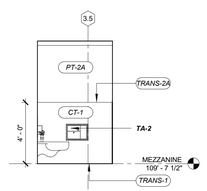

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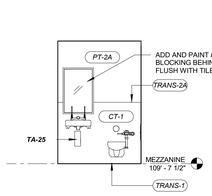

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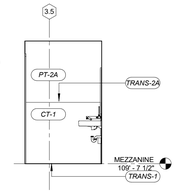

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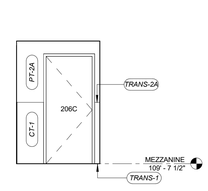

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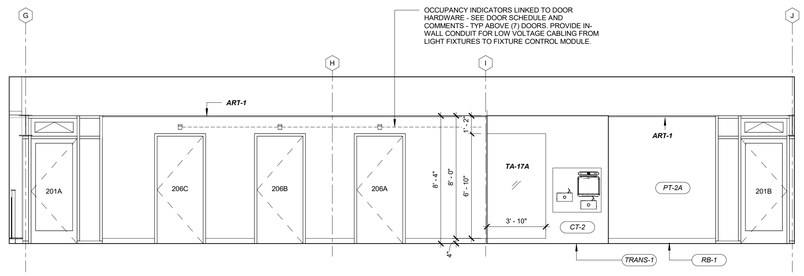
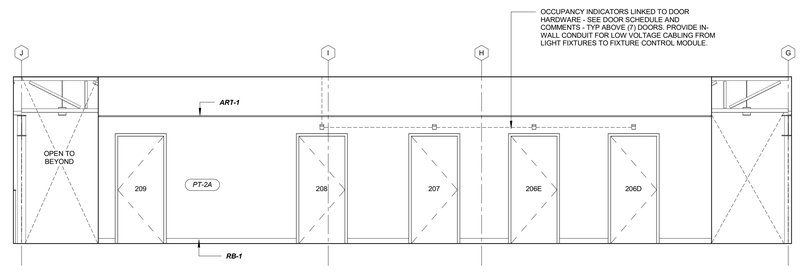
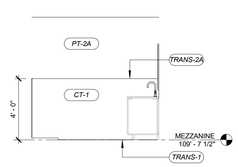


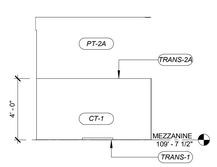
10 237 RESTROOM EAST
A152 1/4" = 1'-0"



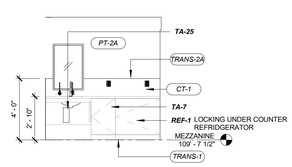
11 237 RESTROOM WEST
A152 1/4" = 1'-0"



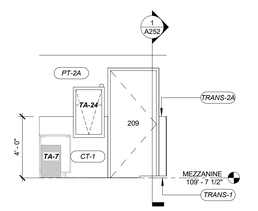
12 COMFORT ROOM WEST
A152 1/4" = 1'-0"



13 COMFORT ROOM SOUTH
A152 1/4" = 1'-0"



14 COMFORT ROOM NORTH
A152 1/4" = 1'-0"



15 COMFORT ROOM EAST
A152 1/4" = 1'-0"

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Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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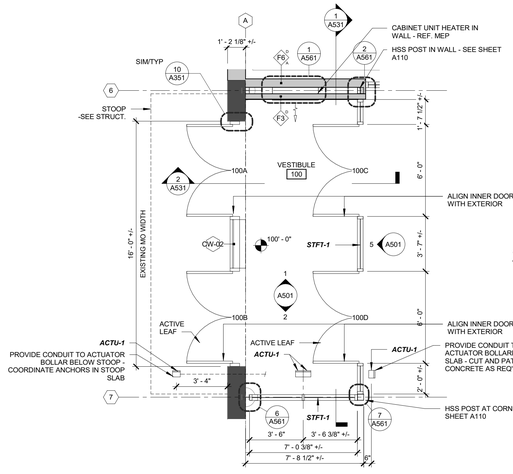
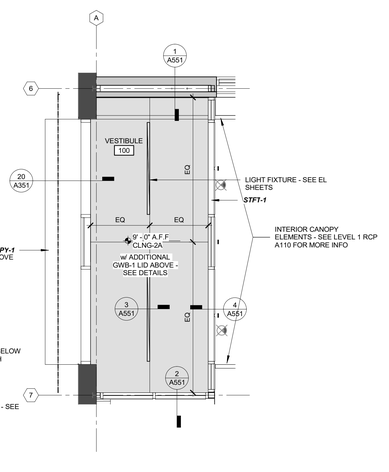
TOILET ROOM PLANS AND ELEVATIONS

A152



1 ENLARGED PLAN - VESTIBULE 100
A161 1/4" = 1'-0"



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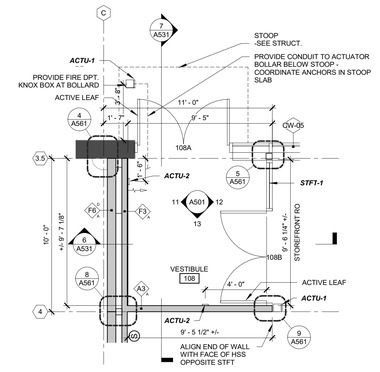
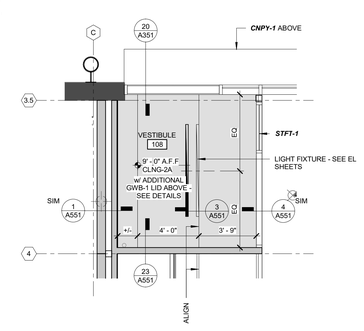
A161 1/4" = 1'-0"



3 ENLARGED PLAN - VESTIBULE 108
A161 1/4" = 1'-0"



4 ENLARGED RCP - VESTIBULE 108
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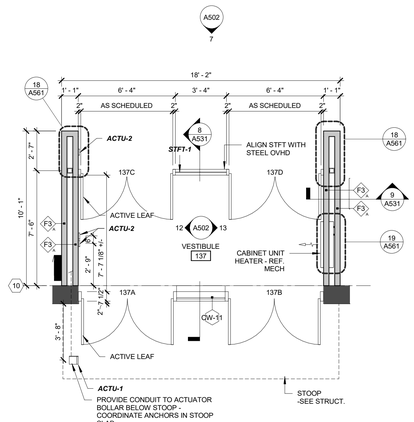

5 ENLARGED PLAN - VESTIBULE 137
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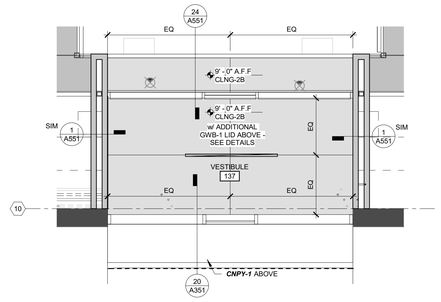

6 ENLARGED RCP - VESTIBULE 137
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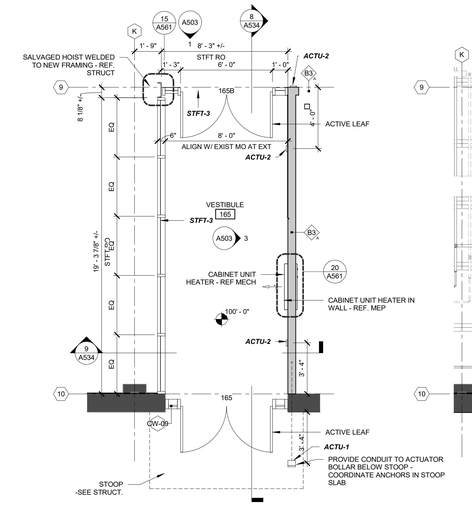
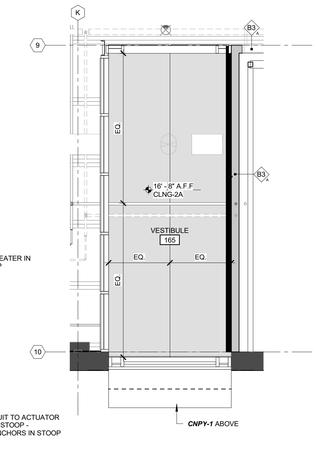


7 ENLARGED FLOOR PLAN - VESTIBULE 165
A161 1/4" = 1'-0"



8 ENLARGED RCP - VESTIBULE 165
A161 1/4" = 1'-0"

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ENLARGED PLANS - VESTIBULES

A161

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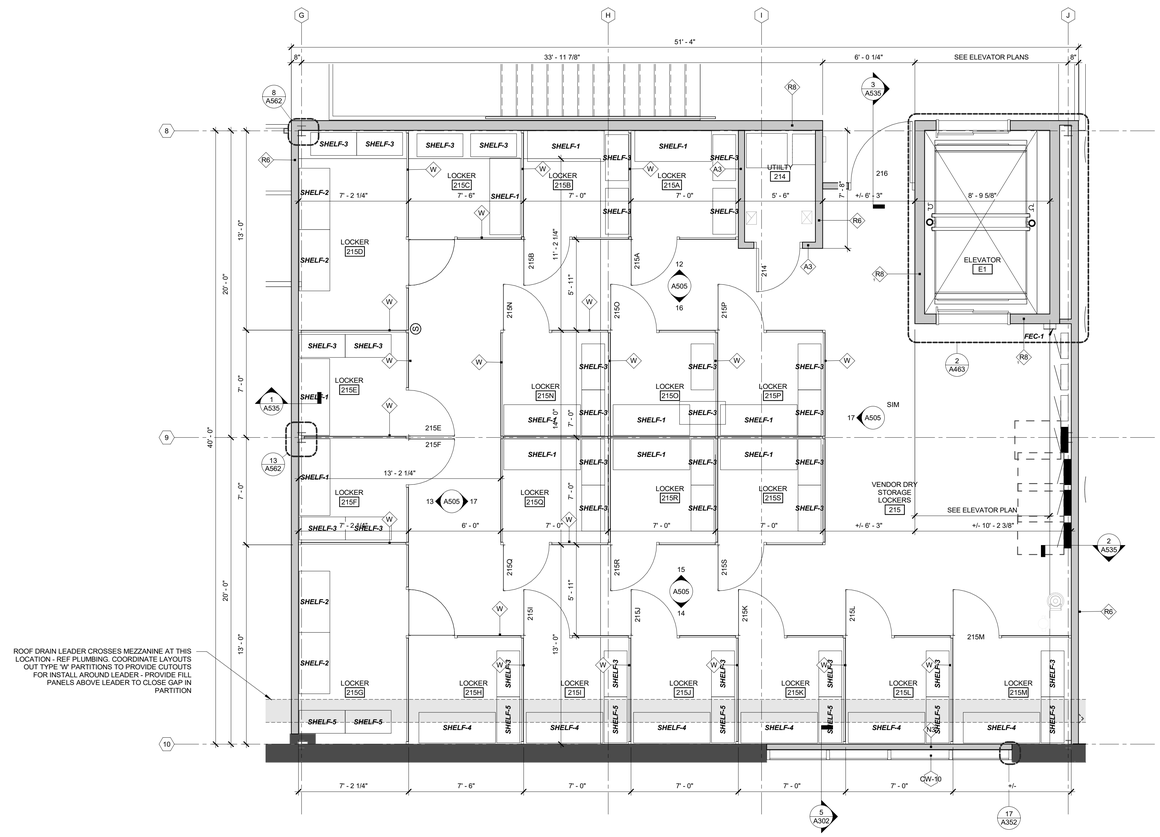
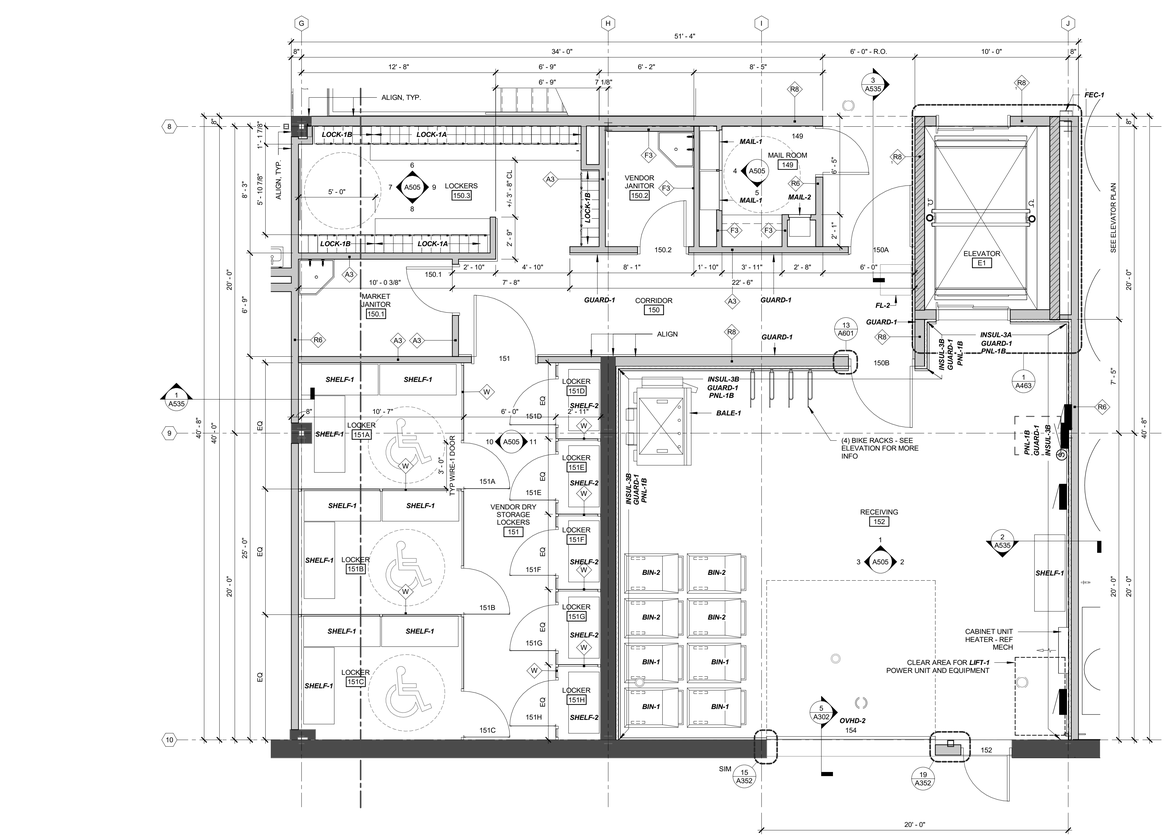


1 ENLARGED PLAN - MEZZANINE VENDOR STORAGE

A162 1/4" = 1'-0"



2 ENLARGED PLAN - LEVEL 1 VENDOR STORAGE

A162 1/4" = 1'-0"

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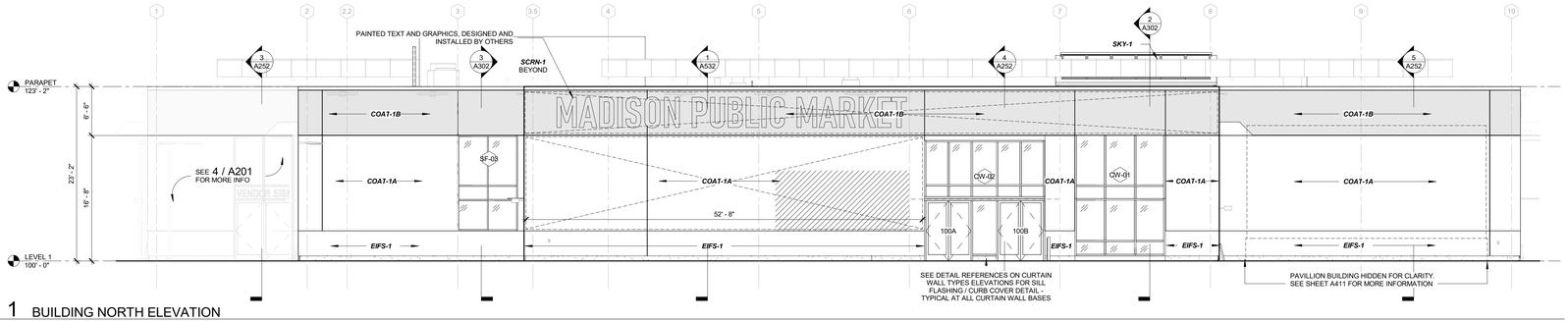
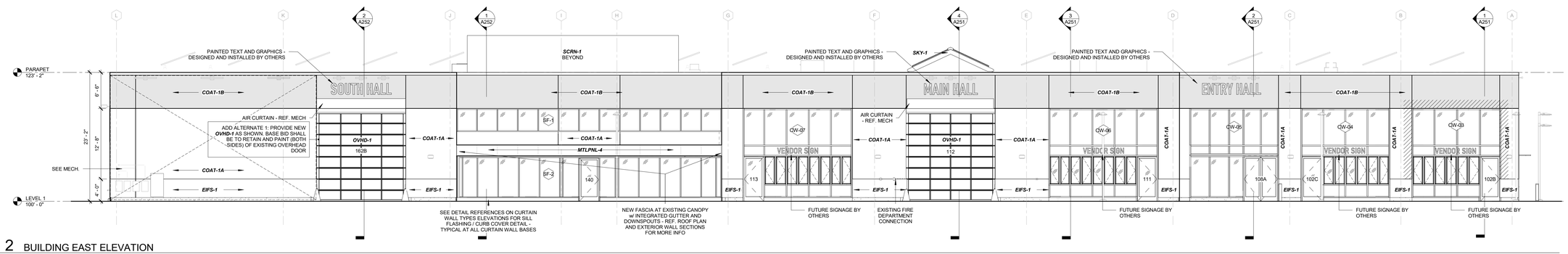
ENLARGED PLANS - STORAGE

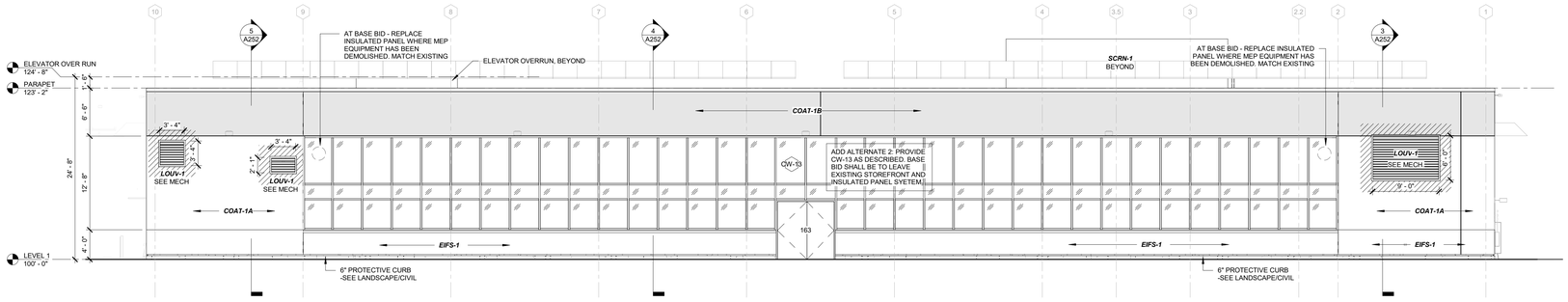
A162



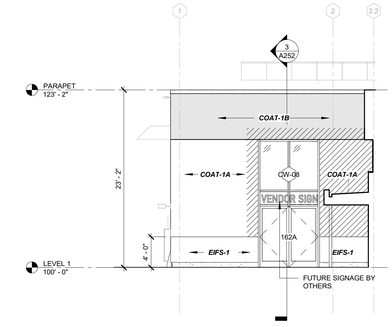
1 BUILDING NORTH ELEVATION
A201 1/8" = 1'-0"



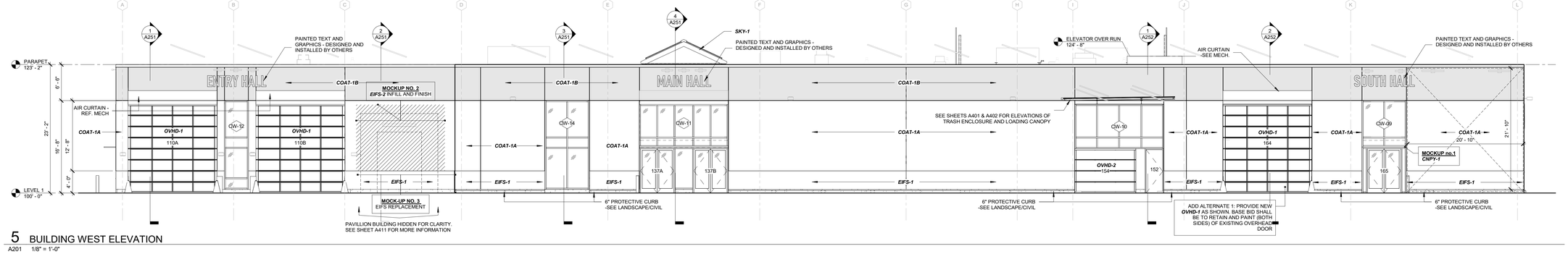
2 BUILDING EAST ELEVATION
A201 1/8" = 1'-0"



3 BUILDING SOUTH ELEVATION
A201 1/8" = 1'-0"



4 PARTIAL BUILDING NORTH ELEVATION - SOUTH HALL
A201 1/8" = 1'-0"



5 BUILDING WEST ELEVATION
A201 1/8" = 1'-0"

BUILDING ELEVATION GENERAL NOTES

EXISTING EIFS SYSTEM WITH ***COAT-1B***. SEE ELEVATIONS FOR

NEW ***EIFS-2*** PATCHING IN EXISTING EIFS SYSTEM DUE TO OPENING INFILL, SUBSTANTIAL REPAIR OF EXISTING SYSTEM, OR AS REQ'D AT FOR SUBSTRATE RECONSTRUCTION AT NEW OPENINGS. NOT ALL AREAS MAY BE SHOWN. SEE NOTE 2 BELOW.

NEW MURAL, BY OTHERS, IN THIS ZONE.

1. PROVIDE ***EIFS-1*** FROM GRADE TO 4'-0" A.F.F. APPLY TO EXISTING FOUNDATION WALL AND TIE INTO EXISTING EIFS SYSTEM TO REMAIN - SEE EXT WALL SECTIONS FOR TYPICAL DETAILS.

2. EIFS CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGE TO EXISTING EIFS SYSTEMS WHICH ARE TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED TO:
   - DENTS
   - FLAKING OR SPALLING OF FINISH AND WEATHER COAT
   - DELAMINATION OF MESH
   - DAMAGE DUE TO MOISTURE SATURATION

PARTICULARLY DAMAGED AREAS ARE NOTED ON ELEVATIONS, BUT FULL SCOPE OF MISCELLANOUS REPAIRS IS NOT. EIFS CONTRACTOR SHALL PERFORM AN ON-SITE INSPECTION PRIOR TO SUBMITTING A BID TO DETERMINE FULL SCOPE OF REQUIRED WORK.

3. ALL EIFS TO REMAIN. AS WELL AS ALL PATCH AND REPAIR WORK PERFORMED AT EXISTING EIFS SHALL RECIEVE ***COAT-1A/1B*** - SEE ELEVATIONS

4. ALL ***COAT-1A/B*** SHALL RETURN AROUND HEADS, JAMBS AND SILLS TO TERMINATION OF EIFS FINISH IN ROUGH OPENINGS

4. EXISTING COPING CAP SHALL BE PAINTED ***PT-5B*** OR, CONTRACTOR OPTION TO REPLACE IN FULL AT NO ADDED COST

5. LIGHT FIXTURES SHOWN ARE FOR LOCATING PURPOSES ONLY - REF. LIGHTING PLANS FOR ACTUAL FIXTURES AND SCHEDULES

6. BUILDING SIGNAGE SHOWN IS BY OTHERS. CONTRACTOR SHALL NOT APPLY COATINGS, PER THESE DOCUMENTS OR OTHERS, TO EXISTING OR NEW EIFS FINISHES THAT IS NOT COMPLIANT WITH ***COAT-1_*** SPECIFICATION

7. SEE SHEETS A401 & A402 FOR ELEVATIONS OF TRASH ENCLOSURE AND LOADING CANOPY

8. ALL EXISTING WHEEL STOPS AT OVERHEAD DOOR OPENINGS, NOT NOTED AS DEMOLISHED, REPAINTED AND REINSTALLED. EXISTING CONCRETE WALL BENEATH SHALL BE REPAIRED IN PLACE. PAINT WHEELSTOP WITH ***PT-5*** TO MATCH ***COAT-1A***

9. ALL OPENINGS AT ABANDONED MECHANICAL AND OTHER EQUIPMENT SHALL BE INFILLED AND PATCHED WITH NEW ***EIFS-1*** OR ***EIFS-2*** TO MATCH ADJACENT SYSTEM, AT SOME LOCATIONS, THRU-WALL EQUIPMENT CAN BE EVALUATED AND ABANDONED IN PLACE, SEALED AND PAINTED. CONTRACTOR SHALL NOTIFY ARCHITECT AND RECIEVE APPROVAL OF INTENT TO ABANDON IN PLACE. SEE INFILL DETAILS A352.

10. FINISH GRADE IS SHOWN AS REFERENCE ONLY - SEE CIVIL FOR ACTUAL GRADE

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Print Name Dagmara Larsen
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BUILDING ELEVATIONS

A201

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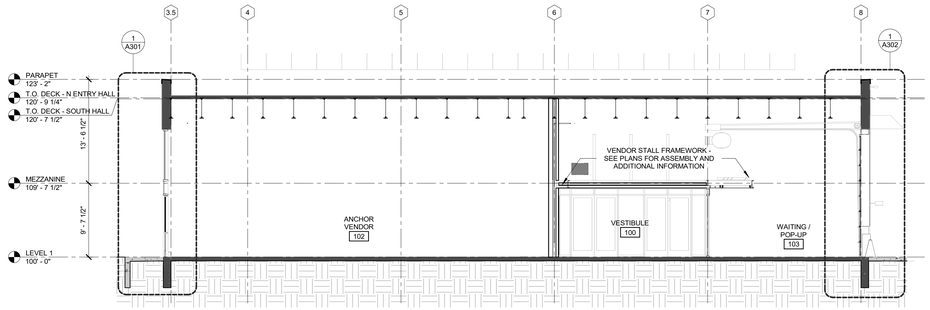
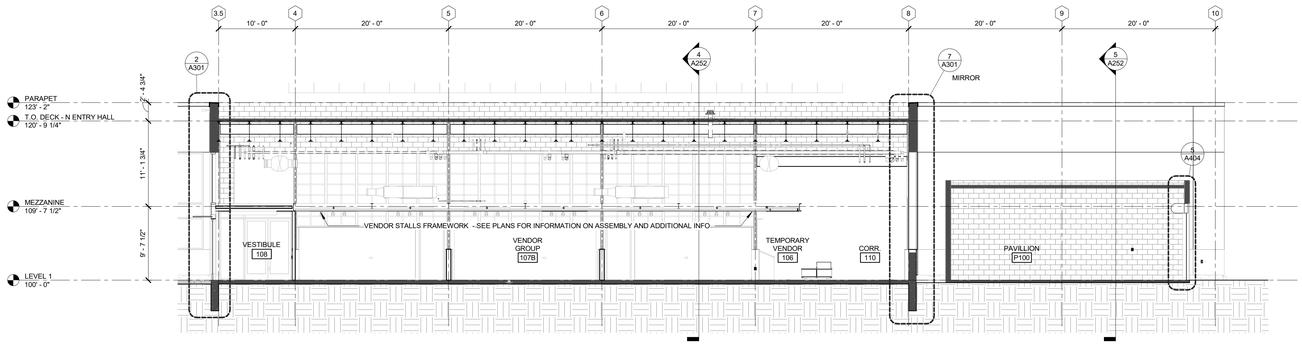


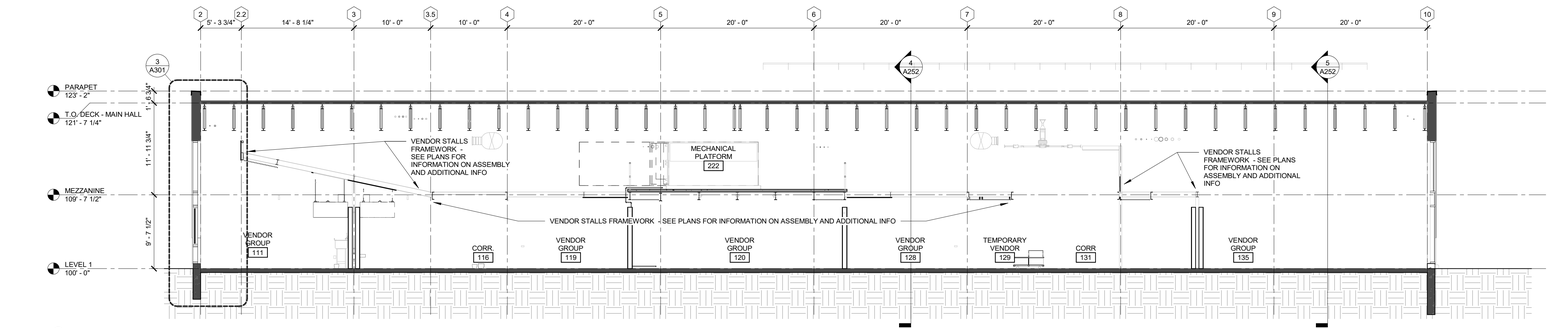
1 BLDG SECTION - EW - NORTH ENTRY HALL

A251 1/8" = 1'-0"



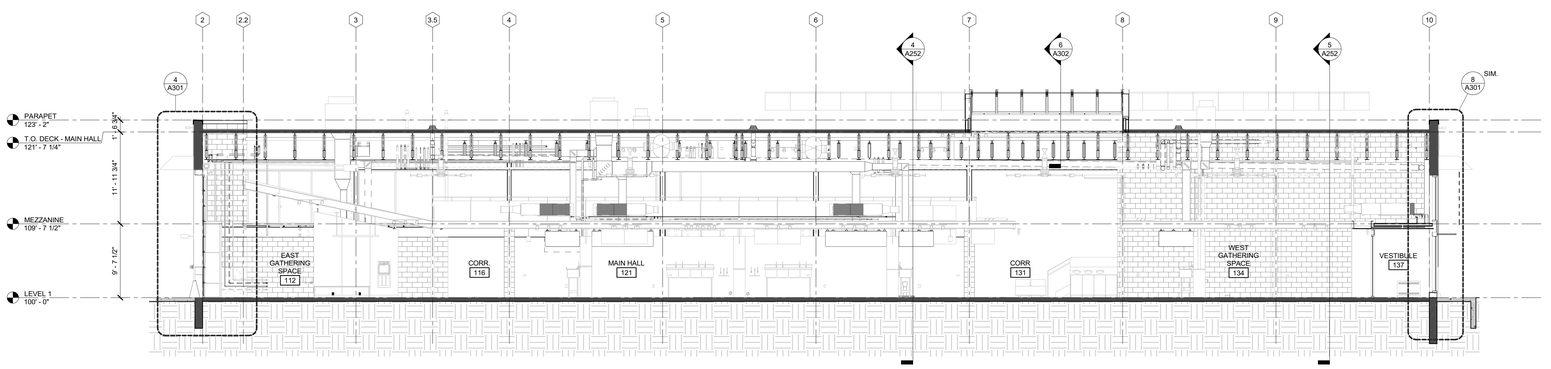
2 BUILDING SECTION - EW - NORTH ENTRY HALL AND PAVILLION

A251 1/8" = 1'-0"



3 BUILDING SECTION - EW - MAIN HALL

A251 1/8" = 1'-0"



4 BUILDING SECTION - EW - MAIN HALL CENTER CORRIDOR

A251 1/8" = 1'-0"

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BUILDING SECTIONS

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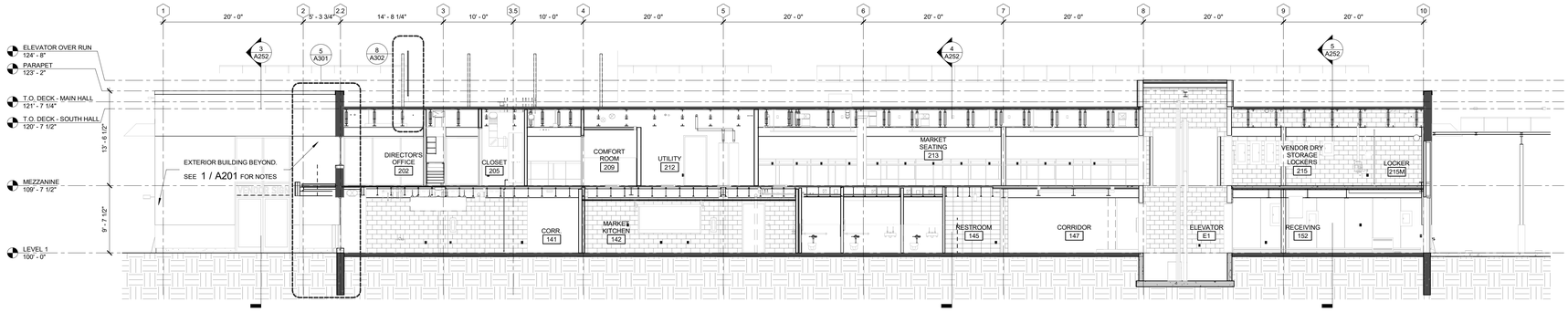

1 BUILDING SECTION - EW - MEZZANINE AND CORE BUILDING PROGRAM
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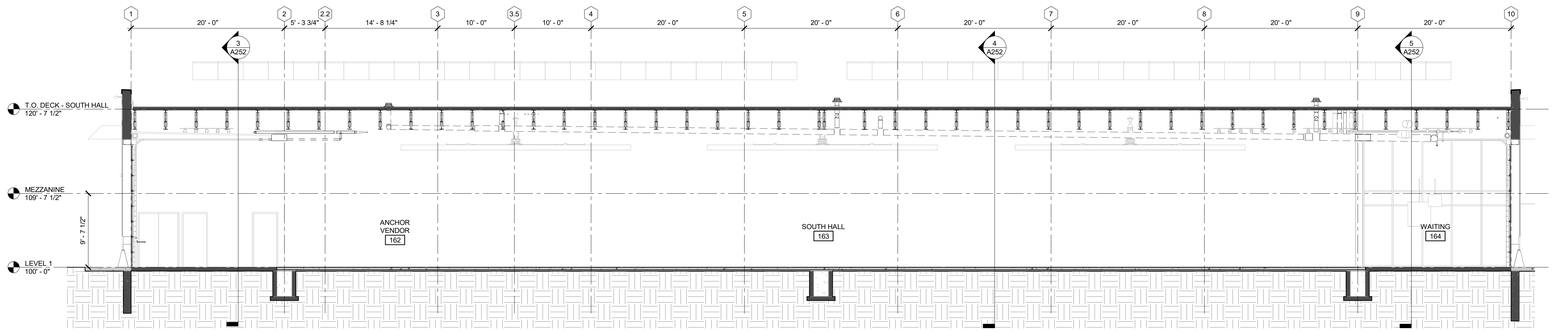
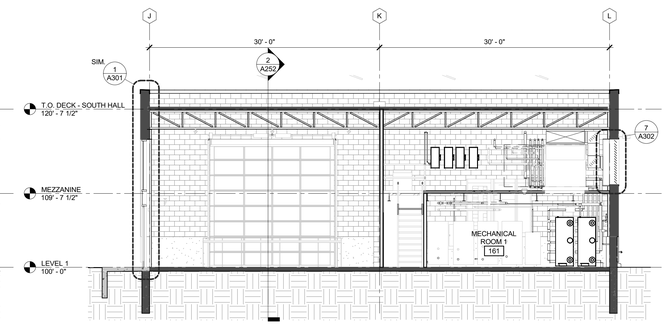
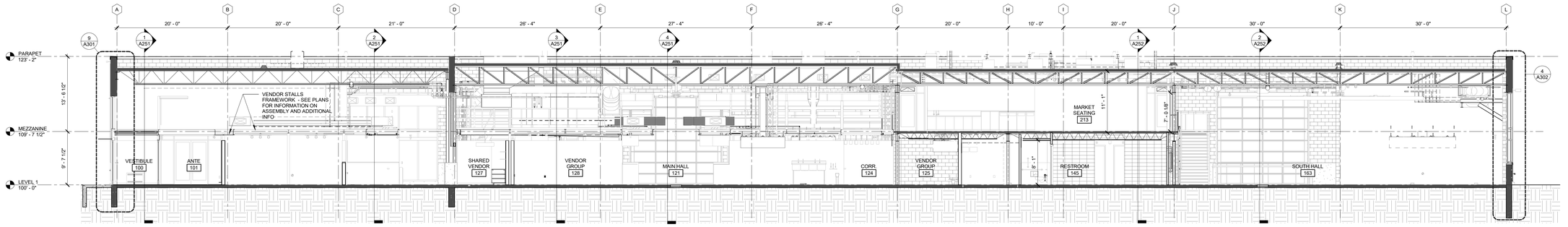


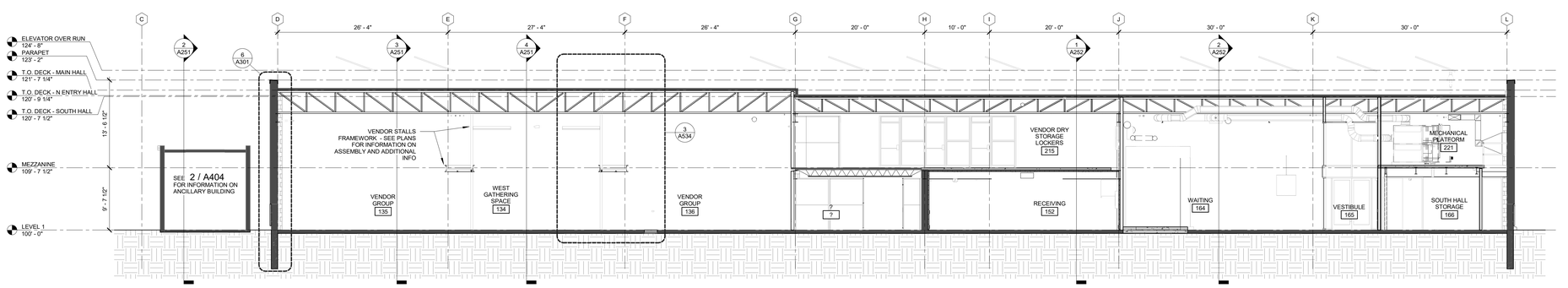
2 BUILDING SECTION - EW - SOUTH HALL
A252 1/8" = 1'-0"



3 BUILDING SECTION NS - SOUTH HALL MECHANICAL
A252 1/8" = 1'-0"



4 BUILDING SECTION - NS - THROUGH MAIN STREET
A252 1/8" = 1'-0"



5 BUILDING SECTION - NS - WEST WING OF BUILDING
A252 1/8" = 1'-0"

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Boelter Premier
7120 Northland Terrace,
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Project No. 2018606.00

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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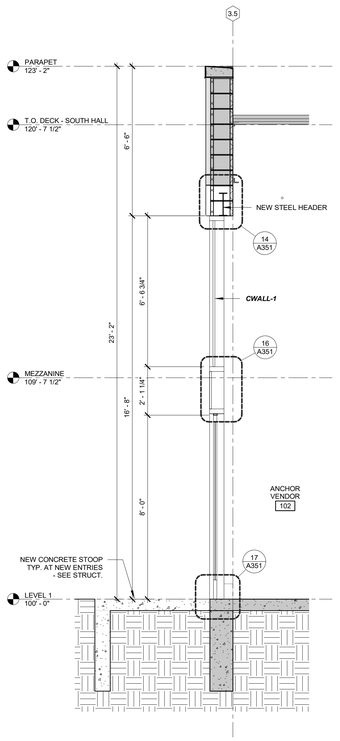
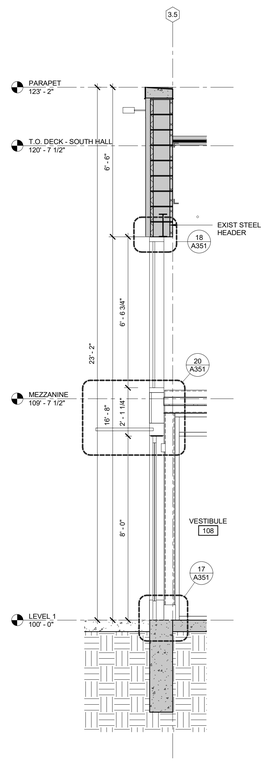
BUILDING SECTIONS

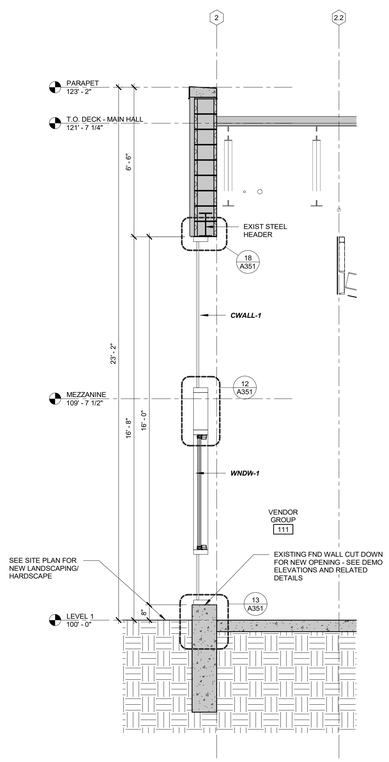
A252



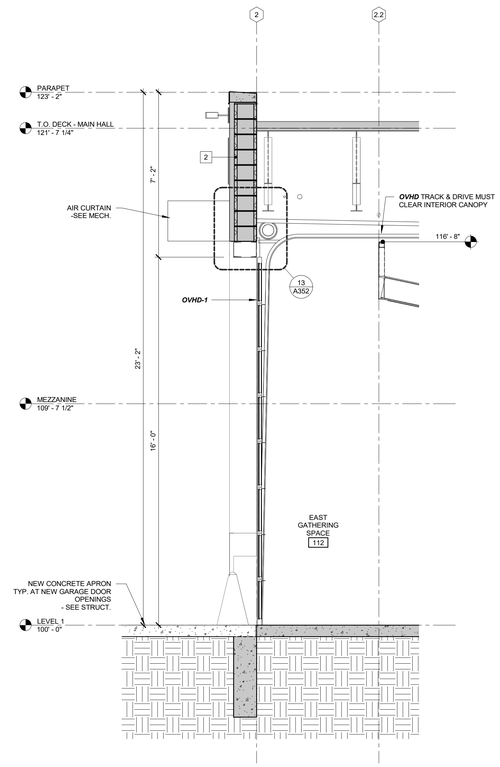
1 CW IN NEW OPENING - ENTRY HALL
A301 3/8" = 1'-0"



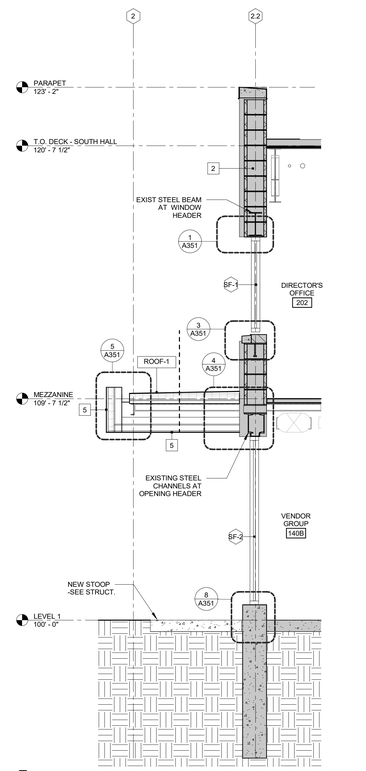
2 CW AND VESTIBULE IN EXISTING STFT OPENING - ENTRY HALL
A301 3/8" = 1'-0"



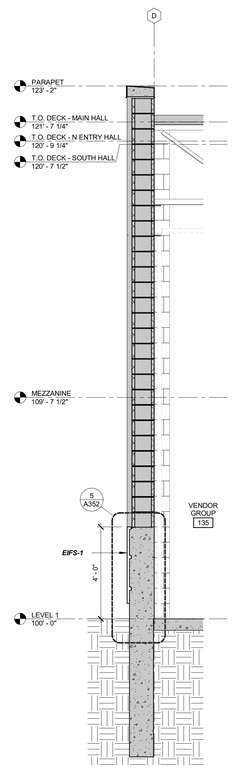
3 CW W/ CASEMENT IN EXISTING STFT OPENING - MAIN HALL
A301 3/8" = 1'-0"



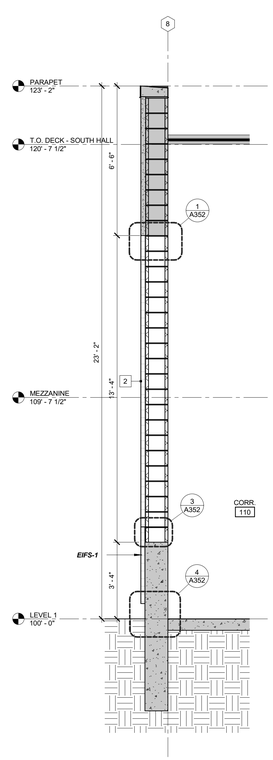
4 NEW OVERHEAD DOOR IN EXISTING OHD OPENING
A301 3/8" = 1'-0"



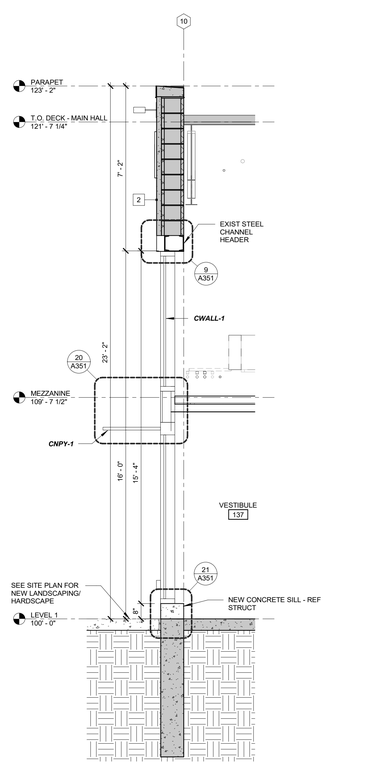
5 NEW STFT AT MEZZANINE RIBBON OPENINGS
A301 3/8" = 1'-0"



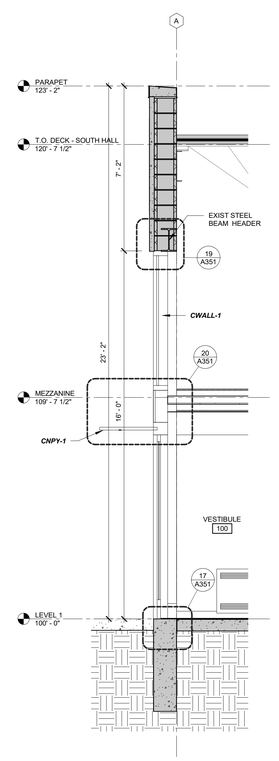
6 TYPICAL EXISTING WALL AND NEW BASE
A301 3/8" = 1'-0"



7 INFILLED EXISTING OPENING IN EXT WALL
A301 3/8" = 1'-0"



8 CW AND VESTIBULE IN EXISTING OHD OPENING. MAIN HALL
A301 3/8" = 1'-0"



9 WALL SECTION - NS - CW INFILL
A301 3/8" = 1'-0"

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

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MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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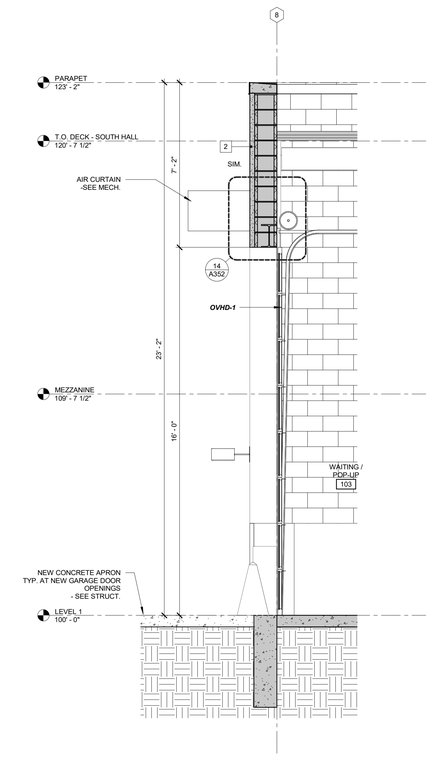
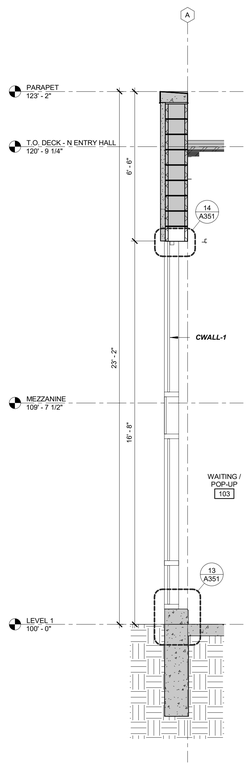
EXT. WALL SECTIONS

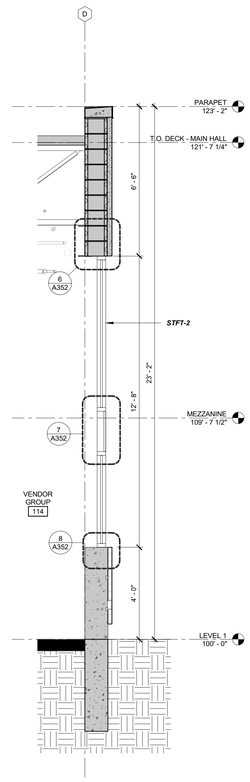
A301



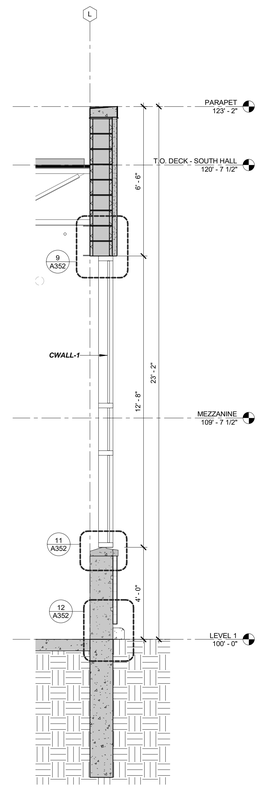
1 NEW OVERHEAD DOOR IN EXISTING OHD OPENING - ENTRY HALL
A302 3/8" = 1'-0"



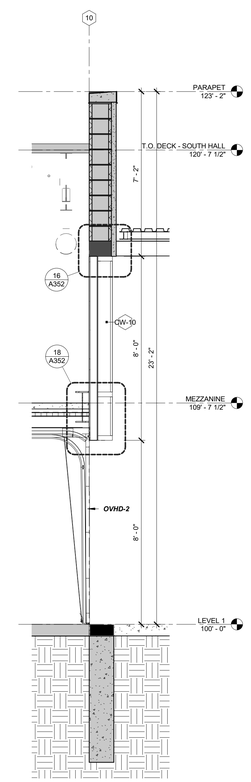
2 CW IN MODIFIED EXISTING STFT OPENING
A302 3/8" = 1'-0"



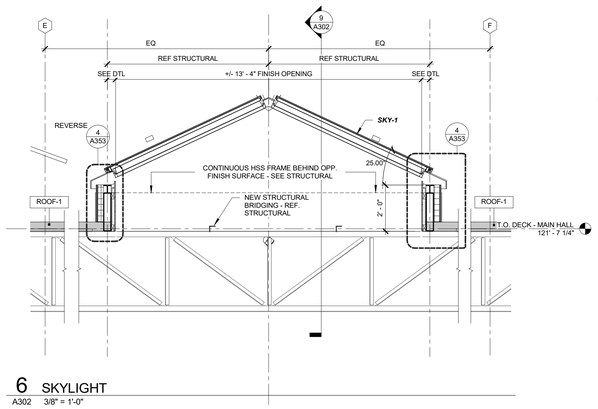
3 NEW STFT IN EXISTING STFT OPENING
A302 3/8" = 1'-0"



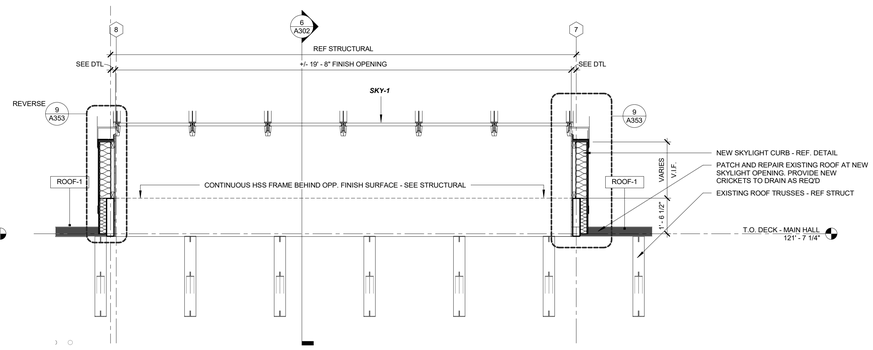
4 CW AT ADD ALTERNATE 2
A302 3/8" = 1'-0"



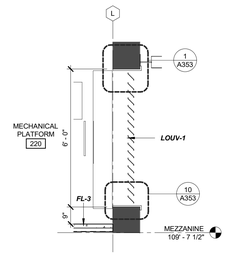
5 CW + GARAGE
A302 3/8" = 1'-0"



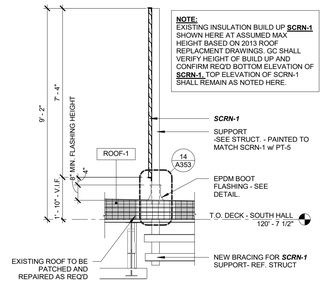
6 SKYLIGHT
A302 3/8" = 1'-0"



9 SKYLIGHT- LONGITUDINAL
A302 3/8" = 1'-0"



7 LOUVER SECTION
A302 3/8" = 1'-0"



8 ROOF TOP EQUIPMENT SCREEN
A302 3/8" = 1'-0"

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Project No: 20190606.00

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Architect Seal

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MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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EXT WALL SECTIONS

A302

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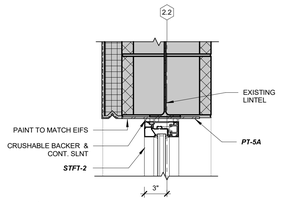
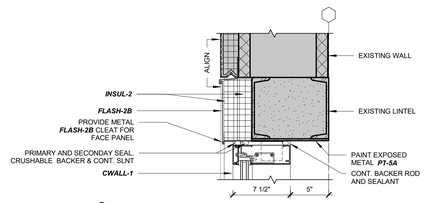
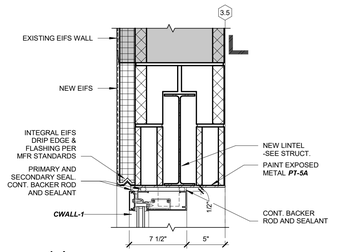


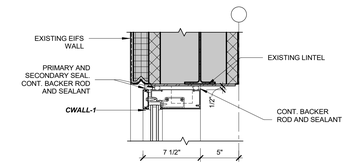
1 STFT-2 EXISTING OPENING - HEAD
A351 1 1/2" = 1'-0"



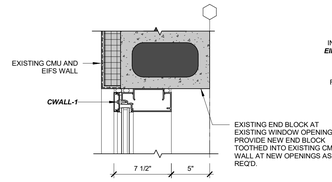
9 CW CHANNEL LINTEL - HEAD
A351 1 1/2" = 1'-0"



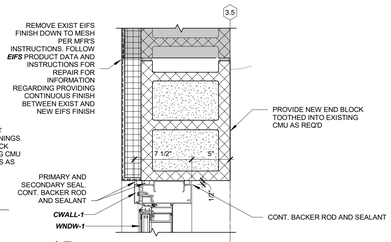
14 CW HEAD - NEW OPENING AND LINTEL
A351 1 1/2" = 1'-0"



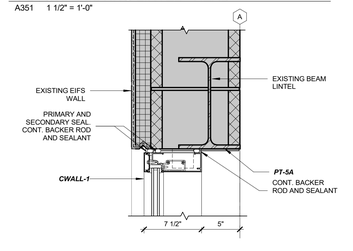
18 CW EXISTING LINTEL - HEAD
A351 1 1/2" = 1'-0"



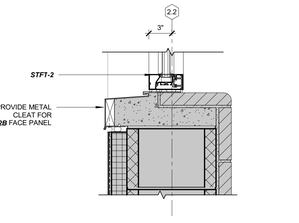
10 CW AT EXISTING EIFS - JAMB
A351 1 1/2" = 1'-0"



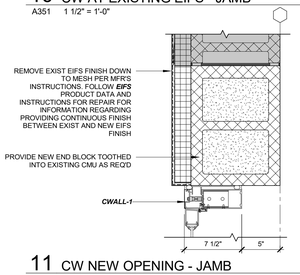
15 CW JAMB - NEW OPENING
A351 1 1/2" = 1'-0"



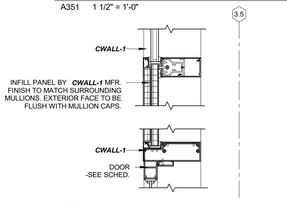
19 CW EXISTING LINTEL - HEAD
A351 1 1/2" = 1'-0"



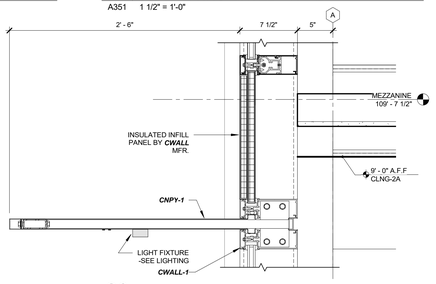
3 STFT-2 AT EXISTING OPENING - SILL
A351 1 1/2" = 1'-0"



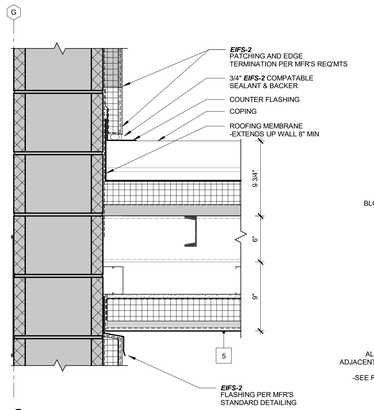
11 CW NEW OPENING - JAMB
A351 1 1/2" = 1'-0"



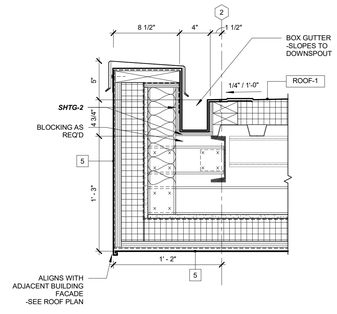
16 CW INFILL PANEL
A351 1 1/2" = 1'-0"



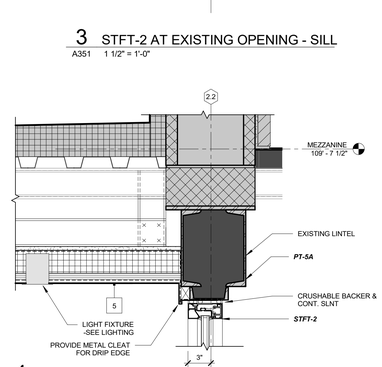
20 CW CANOPY
A351 1 1/2" = 1'-0"



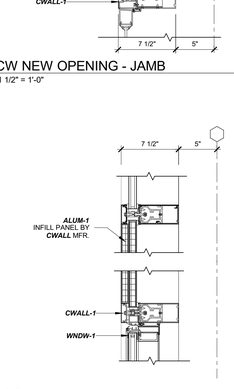
6 OVERHANG - SECTION AT WALL
A351 1 1/2" = 1'-0"



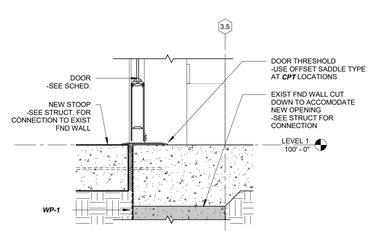
5 OVERHANG - GUTTER
A351 1 1/2" = 1'-0"



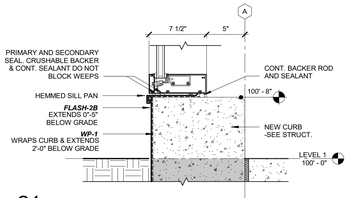
4 STFT-2 AT OVERHANG - HEAD
A351 1 1/2" = 1'-0"



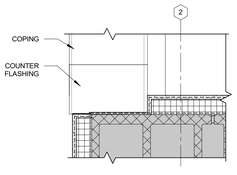
12 CW INFILL PANEL AND WINDOW
A351 1 1/2" = 1'-0"



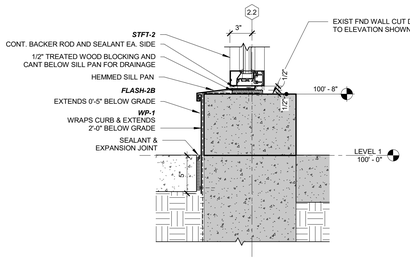
17 CW THRESHOLD - NEW STOOP
A351 1 1/2" = 1'-0"



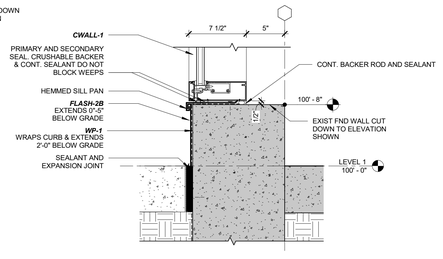
21 CW NEW - SILL
A351 1 1/2" = 1'-0"



7 OVERHANG - PLAN DTL AT WALL
A351 1 1/2" = 1'-0"



8 STFT-2 SILL
A351 1 1/2" = 1'-0"



13 CW EXISTING - SILL
A351 1 1/2" = 1'-0"

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Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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1	2023.06.09	BID DOCUMENTS

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EXTERIOR DETAILS

A351

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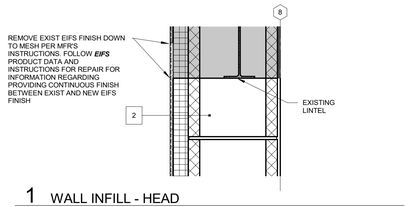

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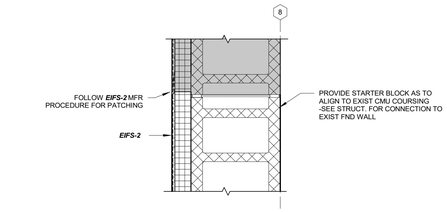

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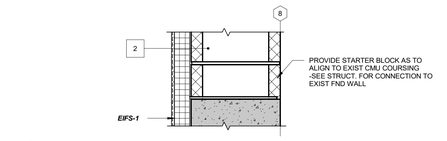

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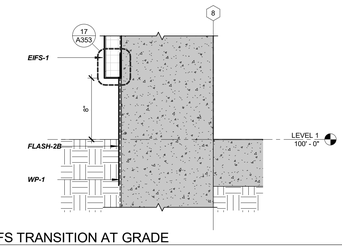

4 EIFS TRANSITION AT GRADE
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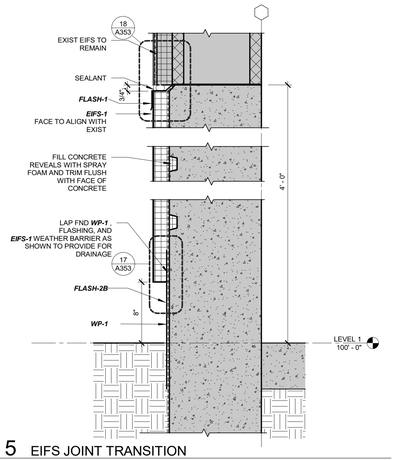

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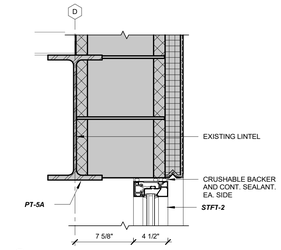

6 STFT-2 EXISTING LINTEL - HEAD
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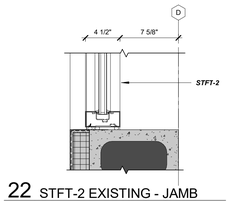

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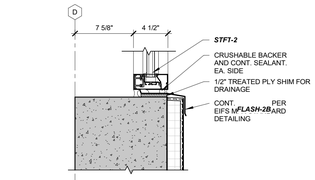

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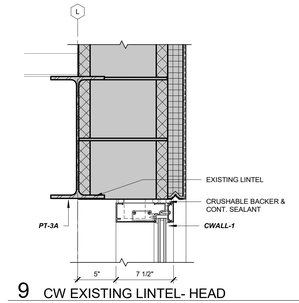

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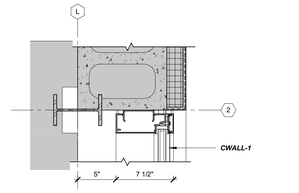

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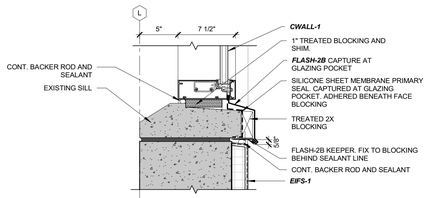

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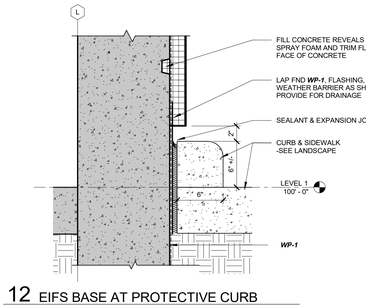

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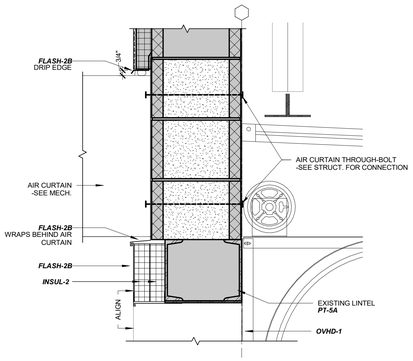

13 GARAGE DOOR CHANNEL LINTEL - HEAD
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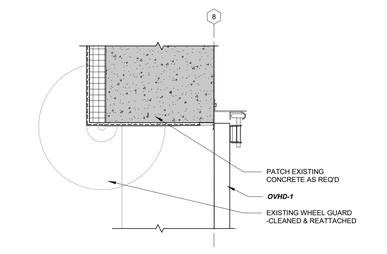

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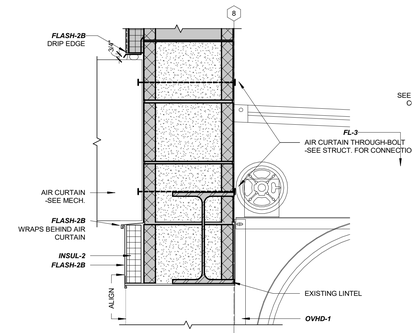

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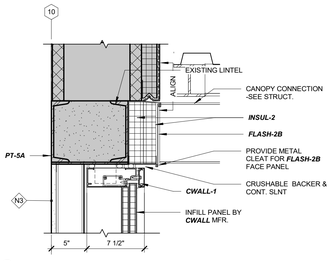

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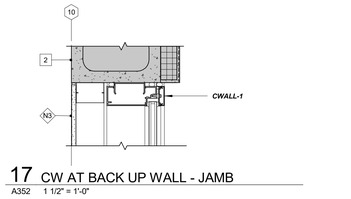

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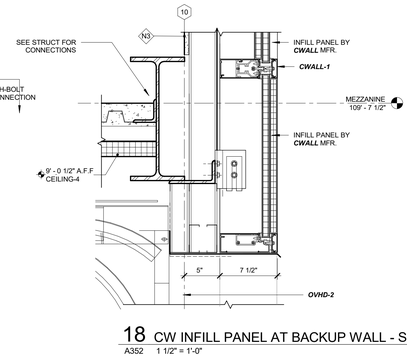

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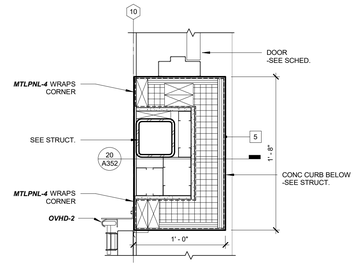

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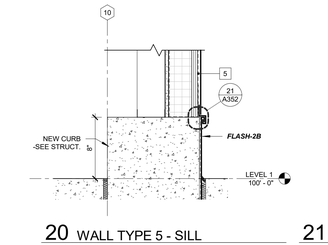

20 WALL TYPE 5 - SILL
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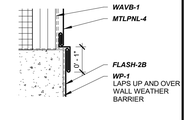

21 MTL PNL-4 TERMINATION
A352 6" = 1'-0"

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien
2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

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Vierbicher
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Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Project No: 2019006.00

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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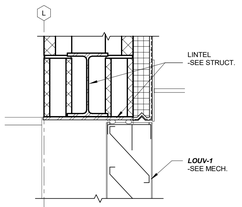
EXTERIOR DETAILS

A352



1 LOUVER - HEAD
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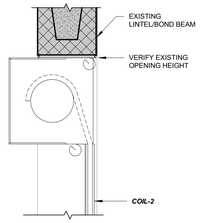

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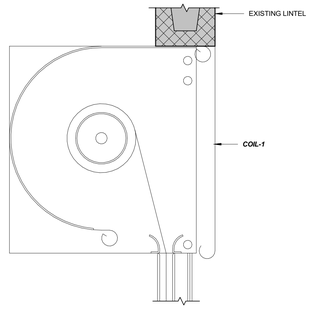

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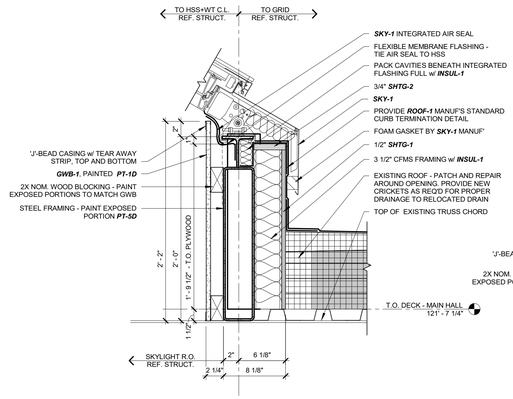

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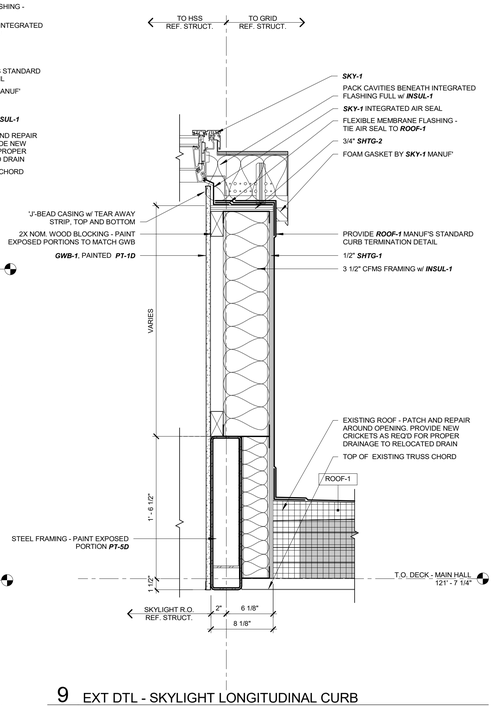

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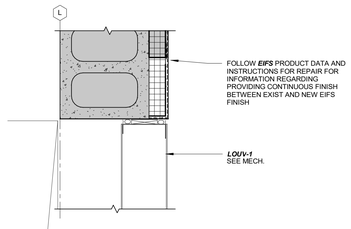

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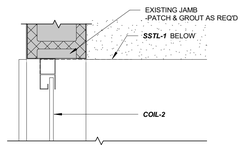

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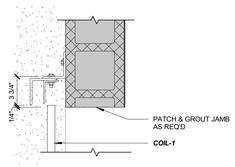

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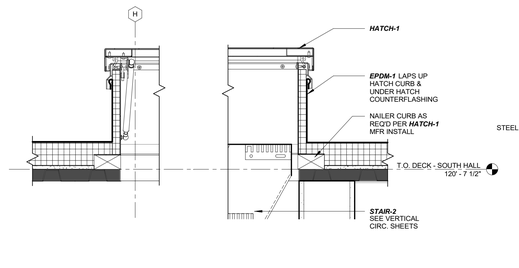

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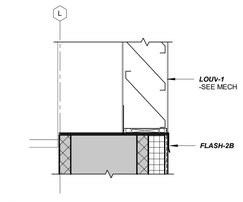

10 LOUVER - SILL
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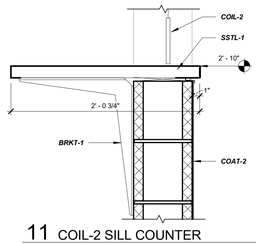

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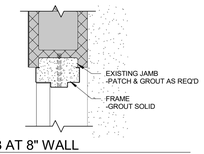

12 DOOR JAMB AT 8" WALL
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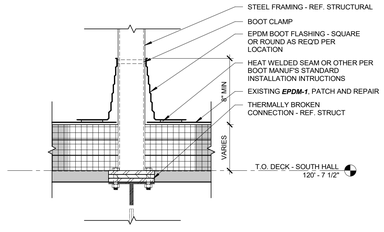

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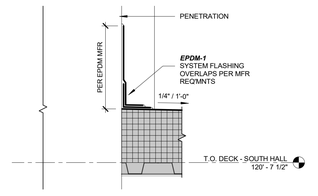

14 TYP ROOF PENETRATIONS - CURBS, EQUIPMENT
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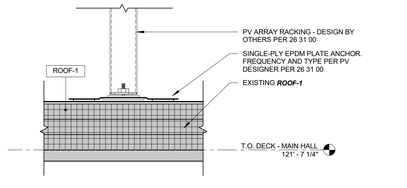

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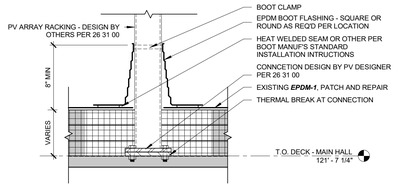

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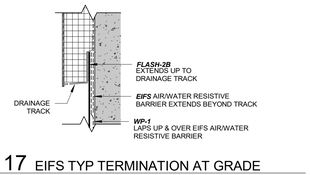

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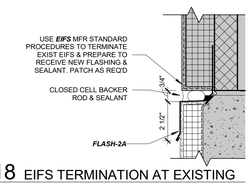

18 EIFS TERMINATION AT EXISTING
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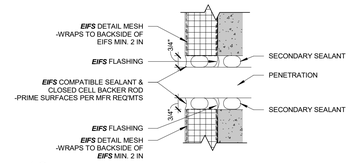

19 EIFS TYP PENETRATION
A353 3" = 1'-0"

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MINNEAPOLIS MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

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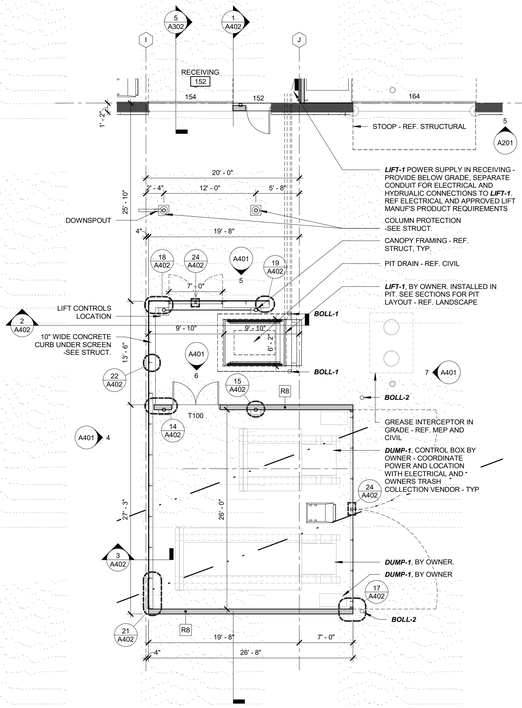
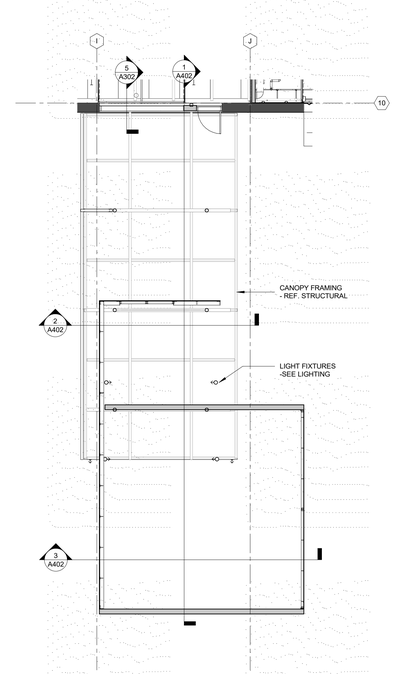
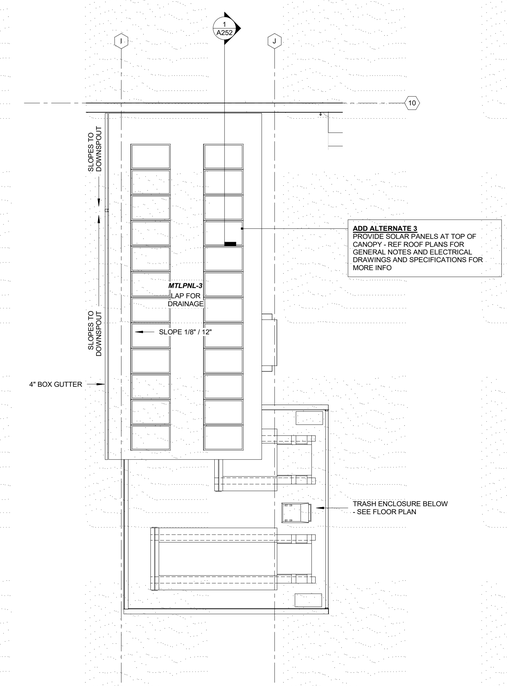


1 ENLARGED PLAN - TRASH AND LOADING AREA
A401 1/8" = 1'-0"



2 ENLARGED RCP - TRASH AND LOADING AREA
A401 1/8" = 1'-0"

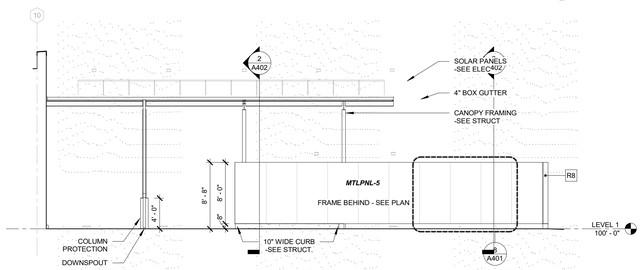


ADD ALTERNATE 3
PROVIDE SOLAR PANELS AT TOP OF CANOPY - REF ROOF PLANS FOR GENERAL NOTES AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR MORE INFO

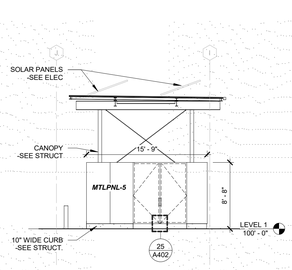
3 ENLARGED ROOF PLAN - TRASH AND LOADING AREA
A401 1/8" = 1'-0"

CANOPY GENERAL NOTES

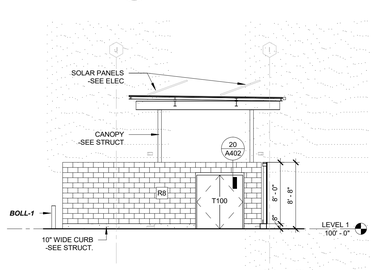
1. SEE STRUCTURAL DRAWINGS FOR FRAMING SIZES AND CONNECTIONS.
2. ALL CANOPY STEEL (STRUCTURAL SHAPES, ACCESSORIES, UNISTRUT, ETC.SHALL BE GALVANIZED WITH A MACROPOXY 646 MIDCOAT AND PIGMENTED ACROLON TOPCOAT. (***PT-6B***)
3. UNDERSIDE OF CANOPY ROOF DECK TO BE PAINTED ***PT-6B***, TOP SIDE TO REMAIN GALVANIZED.
4. ALL SCREEN ENCLOSURE STEEL (STRUCTURAL SHAPES, ACCESSORIES, UNISTRUT, ETC.SHALL BE GALVANIZED WITH A MACROPOXY 646 MIDCOAT AND PIGMENTED ACROLON TOPCOAT. (***PT-6B***)



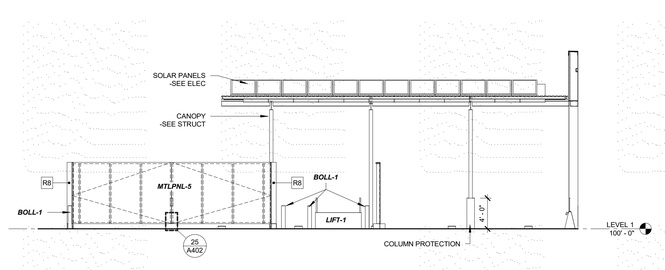
4 EXT ELEVATION - TRASH ENCLOSURE - N
A401 1/8" = 1'-0"



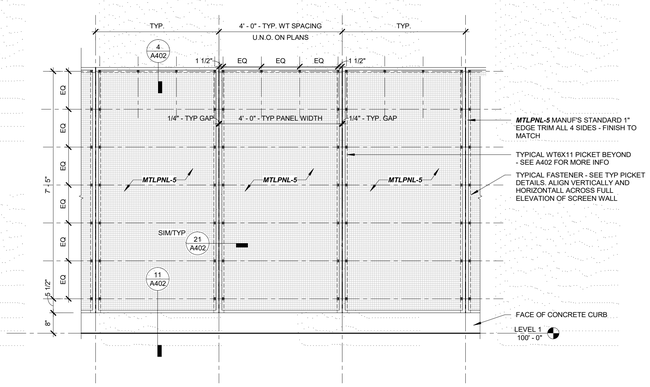
5 EXT ELEVATION - LOADING AREA GATE
A401 1/8" = 1'-0"



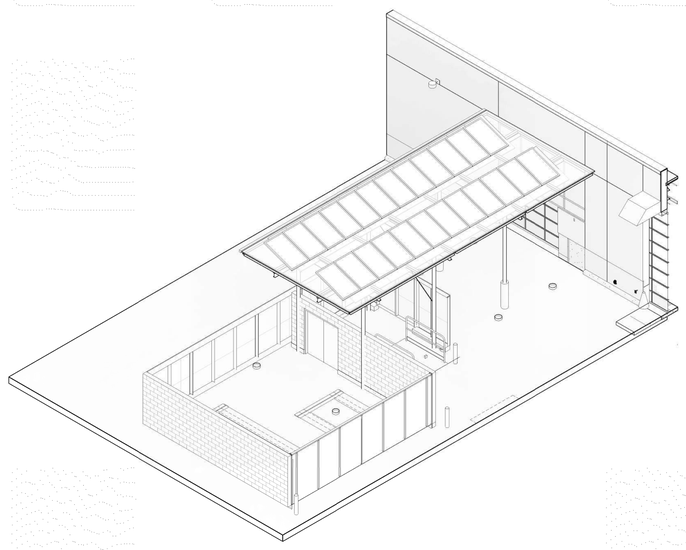
6 EXT ELEVATION - TRASH ENCLOSURE - E
A401 1/8" = 1'-0"



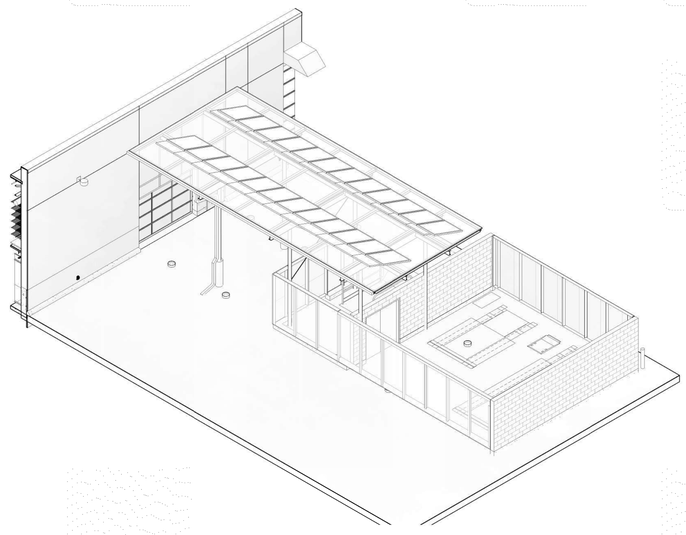
7 EXT ELEVATION - TRASH ENCLOSURE - S
A401 1/8" = 1'-0"



8 EXT ELEVATION - TYP. MTLPNL ASSEMBLY
A401 1/2" = 1'-0"



9 AXON - LOADING AND TRASH AREA SW
A401



10 AXON - LOADING AND TRASH AREA NW
A401

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999 Fourier Dr, Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect
Ken Saiki Design
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Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV
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Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace.
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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1	2023.06.09	BID DOCUMENTS

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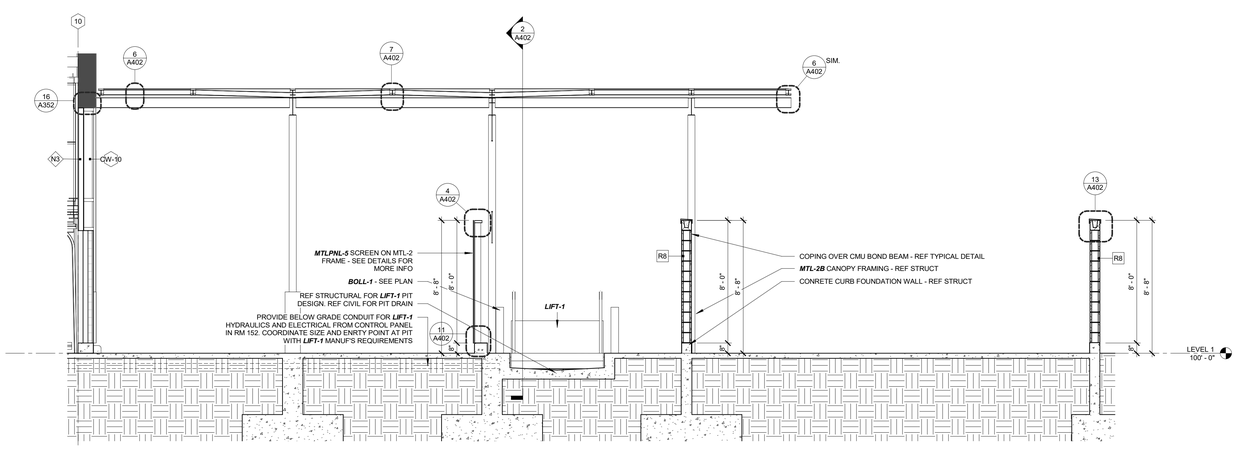
TRASH AND LOADING AREA - PLANS AND ELEVATIONS

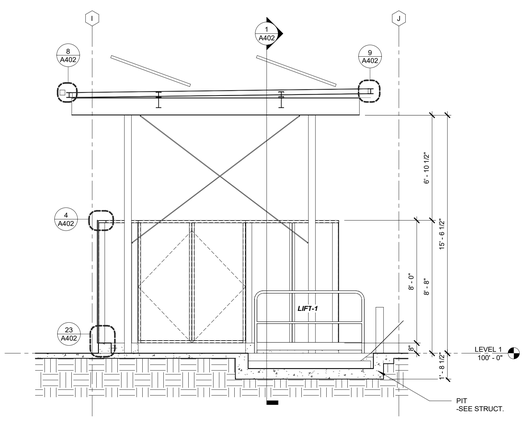
A401

Drawing:2019\Drawings\Meyer, Scherer & Rockcastle, Ltd. 6/11/2023 2:41:25 PM BIM 360://2019006 Madison Public Market/Architecture.rvt



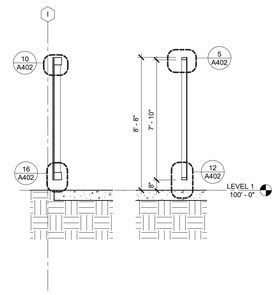
1 EXT SECTION - TRASH AND LOADING AREA -EW

A402 1/4" = 1'-0"



2 EXT SECTION - LOADING AREA - NS

A402 1/4" = 1'-0"

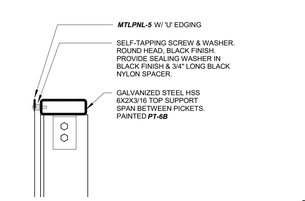


3 EXTERIOR SECTION - TRASH ENCLOSURE - NS

A402 1/4" = 1'-0"

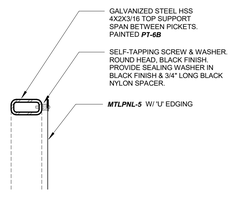
CANOPY GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR FRAMING SIZES AND CONNECTIONS.
2. ALL CANOPY STEEL (STRUCTURAL SHAPES, ACCESSORIES, UNISTRUT, ETC.SHALL BE GALVANIZED WITH A MACROPOXY 646 MIDCOAT AND PIGMENTED ACROLON TOPCOAT. (***PT-6B***)
3. UNDERSIDE OF CANOPY ROOF DECK TO BE PAINTED ***PT-6B***, TOP SIDE TO REMAIN GALVANIZED.
4. ALL SCREEN ENCLOSURE STEEL (STRUCTURAL SHAPES, ACCESSORIES, UNISTRUT, ETC.SHALL BE GALVANIZED WITH A MACROPOXY 646 MIDCOAT AND PIGMENTED ACROLON TOPCOAT. (***PT-6B***)



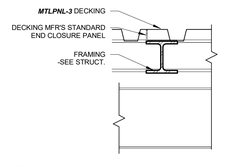
4 EXT DTL - MTLPNL SCREEN TOP

A402 1 1/2" = 1'-0"



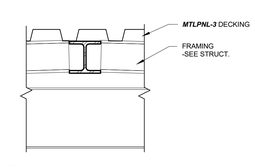
5 EXT DTL - MTLPNL GATE TOP

A402 1 1/2" = 1'-0"



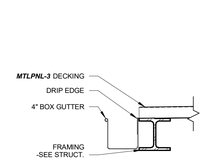
6 CANOPY - E EDGE

A402 1 1/2" = 1'-0"



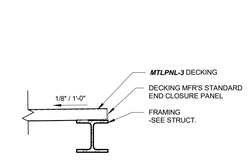
7 CANOPY - TYP INTERMEDIATE

A402 1 1/2" = 1'-0"



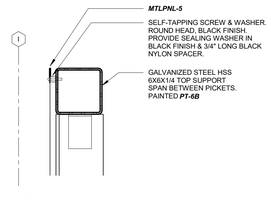
8 CANOPY - N EDGE

A402 1 1/2" = 1'-0"



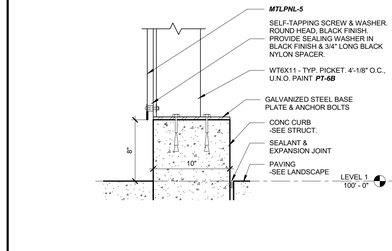
9 CANOPY - S EDGE

A402 1 1/2" = 1'-0"



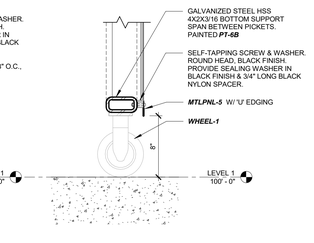
10 SCREEN TOP SUPPORT

A402 1 1/2" = 1'-0"



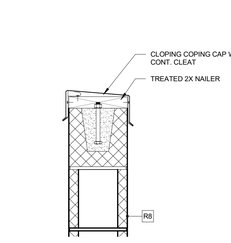
11 EXT DTL - SCREEN ATTACHED BOTTOM

A402 1 1/2" = 1'-0"



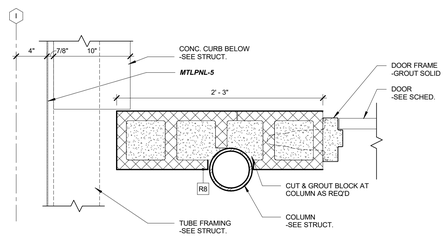
12 EXT DTL - MTLPNL GATE BOTTOM

A402 1 1/2" = 1'-0"



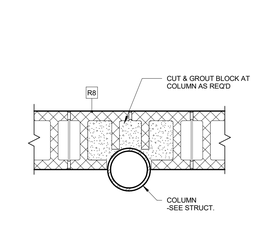
13 EXT DTL - CMU WALL CAP

A402 1 1/2" = 1'-0"



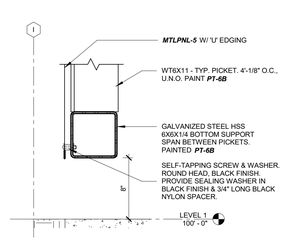
14 EXT PLAN DTL AT R8

A402 1 1/2" = 1'-0"



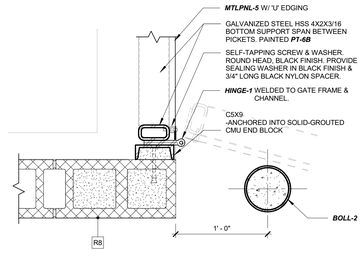
15 EXT PLAN DTL - R8 AT COLUMN

A402 1 1/2" = 1'-0"



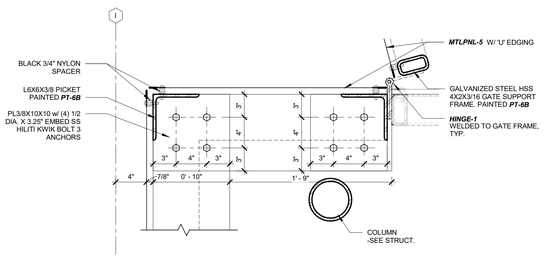
16 SCREEN BOTTOM SUPPORT

A402 1 1/2" = 1'-0"



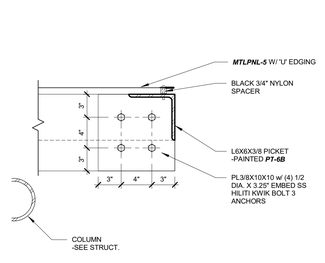
17 EXT PLAN DTL - HINGE AT R8

A402 1 1/2" = 1'-0"



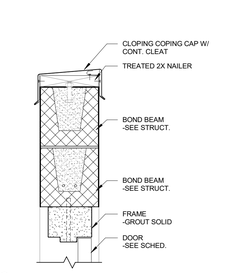
18 EXT PLAN DTL - CORNER

A402 1 1/2" = 1'-0"



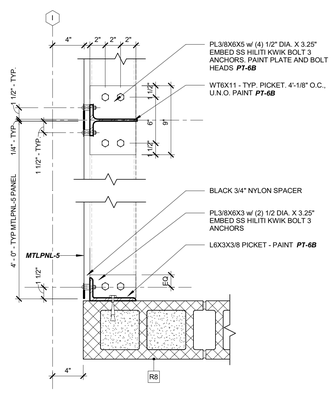
19 EXT PLAN DTL - END

A402 1 1/2" = 1'-0"



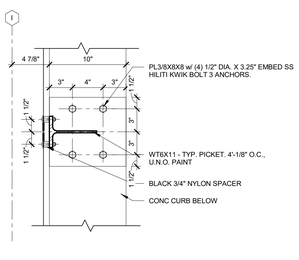
20 HM TRASH DOOR - HEAD

A402 1 1/2" = 1'-0"



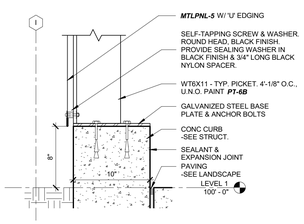
21 EXT PLAN DTL - END AT R8

A402 1 1/2" = 1'-0"



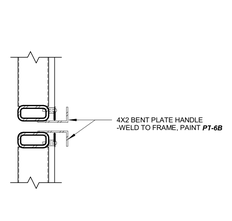
22 EXT PLAN DTL - BOTTOM SUPPORT

A402 1 1/2" = 1'-0"



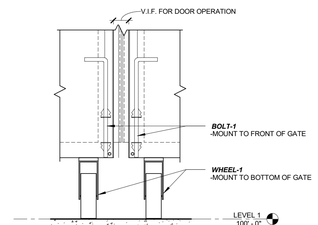
23 SCREEN BOTTOM

A402 1 1/2" = 1'-0"



24 EXT PLN DTL - GATE HANDLE

A402 1 1/2" = 1'-0"



25 EXT DTL ELEV - GATE LATCH

A402 1 1/2" = 1'-0"

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Bloomington, MN 55425 | 651.379.9121

Civil Engineer

Vierbicher
999 Fourier Dr, Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
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Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2018006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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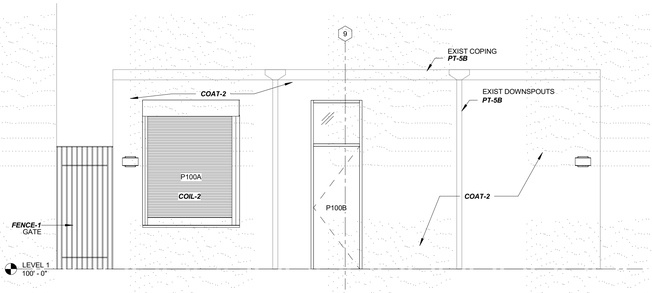
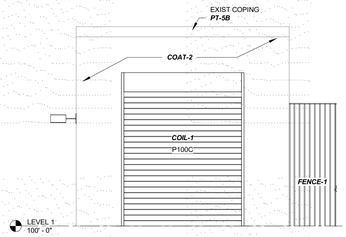
TRASH AND LOADING AREA - SECTIONS AND DETAILS

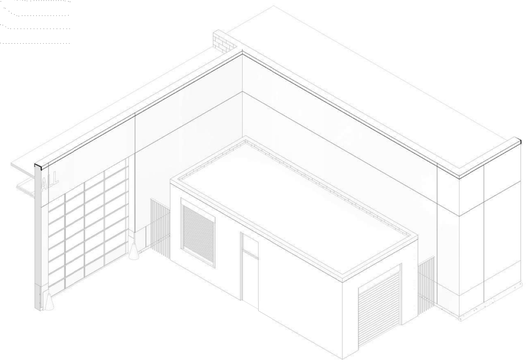
A402



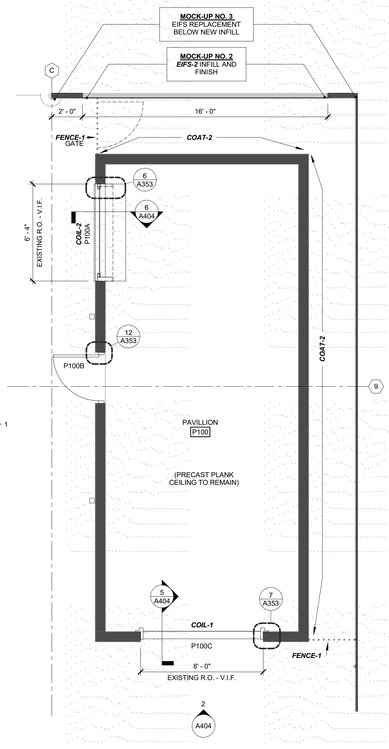
1 ANCILLARY BUILDING NORTH ELEVATION
A404 1/4" = 1'-0"



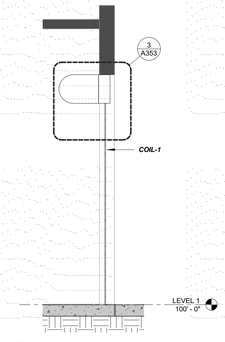
2 ANCILLARY BUILDING EAST ELEVATION
A404 1/4" = 1'-0"



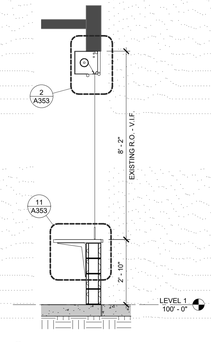
3 ANCILLARY BUILDING - 3D AXON
A404



4 ENLARGED PLAN - ANCILLARY BUILDING
A404 1/4" = 1'-0"



5 COILING DOOR
A404 3/8" = 1'-0"



6 COUNTER COILING DOOR
A404 3/8" = 1'-0"

Architecture and Interiors

MSRDesign

510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien

2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

Civil Engineer

Vierbicher

999 Fourier Dr. Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design

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Structural Engineering,
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Lighting Design

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Commercial Kitchen Design

Boelter Premier

7120 Northland Terrace,
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MADISON PUBLIC MARKET

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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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ANCILLARY BUILDING

A404

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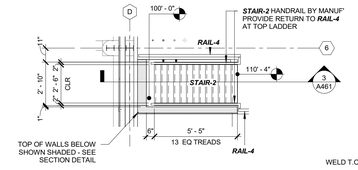
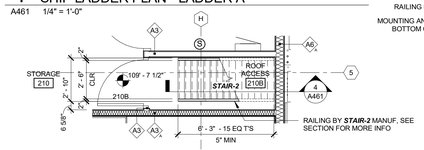


1 SHIP LADDER PLAN - LADDER A
A461 1/4" = 1'-0"



2 SHIP LADDER PLAN - LADDER B
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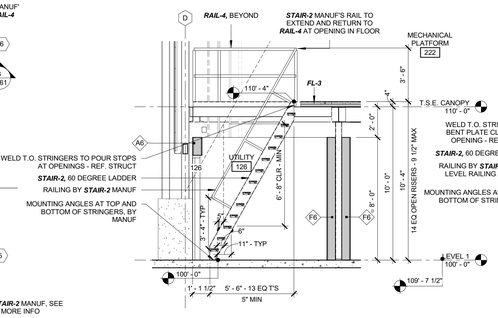
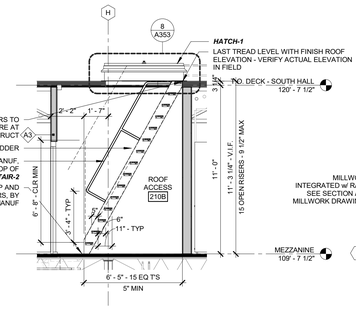
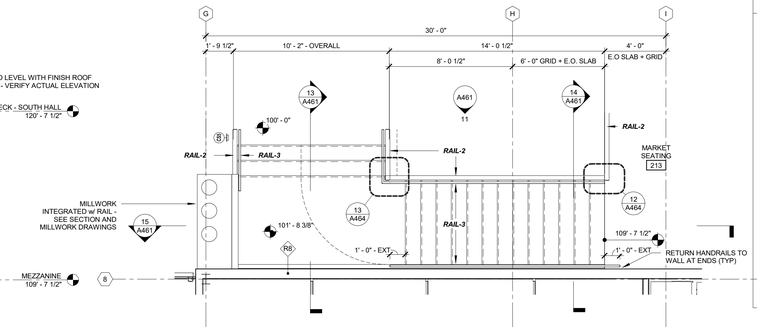


3 VERTICAL CIRCULATION SECTION - LADDER A
A461 1/4" = 1'-0"



4 VERTICAL CIRCULATION SECTION - LADDER B
A461 1/4" = 1'-0"

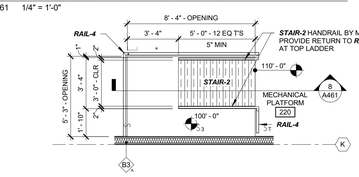


5 VERTICAL CIRCULATION PLAN - MEZZANINE - STAIR A
A461 1/4" = 1'-0"

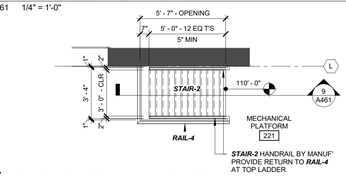
VERTICAL CIRCULATION GENERAL NOTES

1. PROVIDE BLOCKING AT ALL WALL MOUNTED RAILINGS
2. ALL EXPOSED STEEL AT STAIR - STRINGERS, RISERS, GUARDRAILS, ETC, SHALL BE FINISHED TO MATCH ARCHITECTURAL INTERIOR STEEL CANOPIES (***P7-7***) UNLESS NOTED OTHERWISE - SEE A110 SHEETS FOR NOTES ON STEEL CANOPIES
3. SEE TYPICAL DETAILS REFERENCED ON PLANS AND SECTIONS FOR COMPONENTS OF ***RAIL-2*** SYSTEM
4. ALL TREADS SHALL BE CAST IN PLACE CONCRETE WITH POLISHED FINISH
5. EXTEND HANDRAIL 12" BEYOND FIRST RISER NOSING AT TOP OF STAIR FLIGHTS AND EXTENT HANDRAIL ONE TREAD DEPTH BEYOND LAST RISER NOSING AT BOTTOM OF STAIR FLIGHTS - RETURN HANDRAIL TO WALLS, TYPICALLY. SEE DETAILS FOR NON TYPICAL CONDITIONS
6. MAINTAIN CLEAR WIDTHS INDICATED ON PLANS
7. COORDINATE ROUGH OPENINGS FOR ELEVATOR DOORS WITH ELEVATOR MANUFACTURER
8. COORDINATE SUMP PUMP WITH STRUCTURAL, ELECTRICAL AND CIVIL
9. COORDINATE LOCATION OF PIT LADDER WITH ELEVATOR MANUFACTURER
10. RETURN ALL HANDRAILS AT ENDS BACK TO WALL OR GUARDRAIL

1 HR RATED CONSTRUCTION



6 SHIP LADDER PLAN - LADDER C
A461 1/4" = 1'-0"



7 SHIP LADDER PLAN - LADDER D
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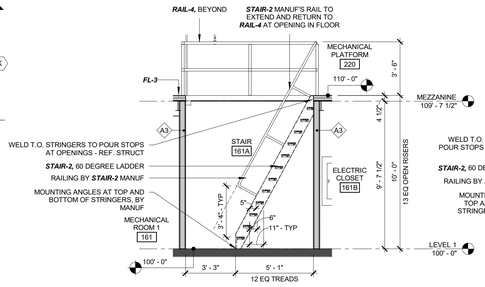

8 VERTICAL CIRCULATION SECTION - LADDER C
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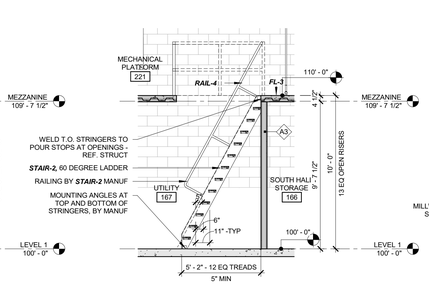

9 VERTICAL CIRCULATION SECTION - LADDER D
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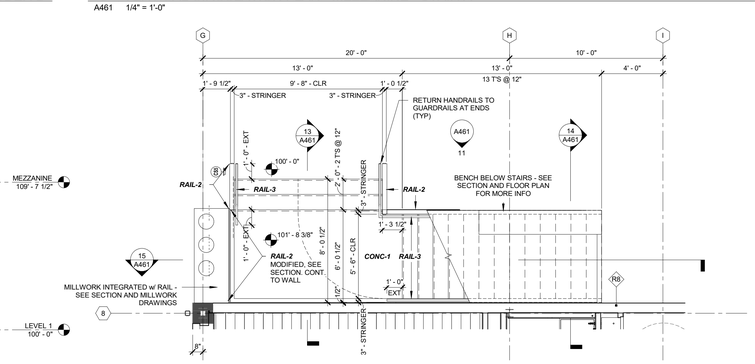

10 VERTICAL CIRCULATION PLAN - LVL 1 - STAIR A
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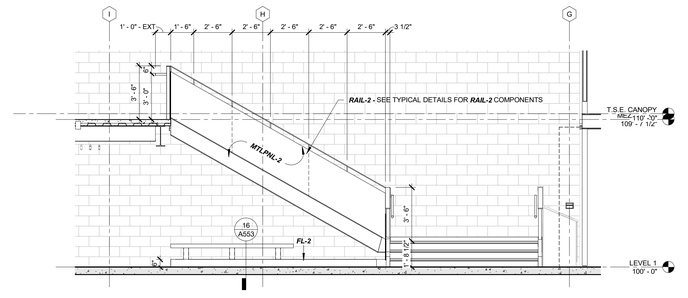
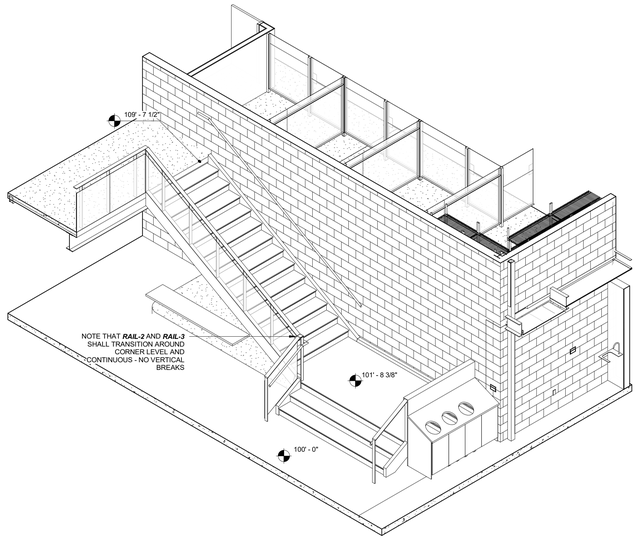
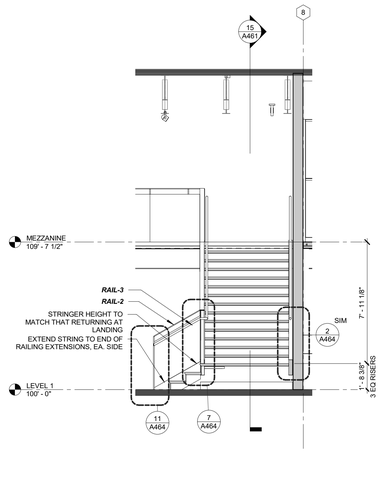


11 VERTICAL CIRCULATION SECTION - STAIR A - W
A461 1/4" = 1'-0"



12 STAIR A - AXON
A461



13 VERTICAL CIRCULATION SECTION - STAIR A - LANDING
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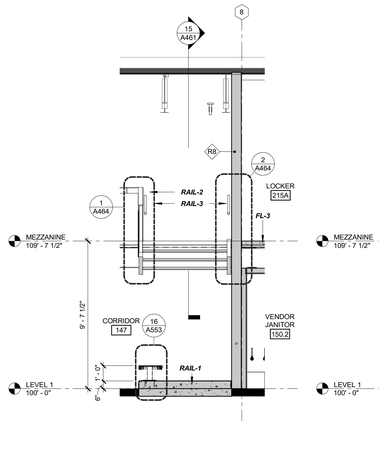
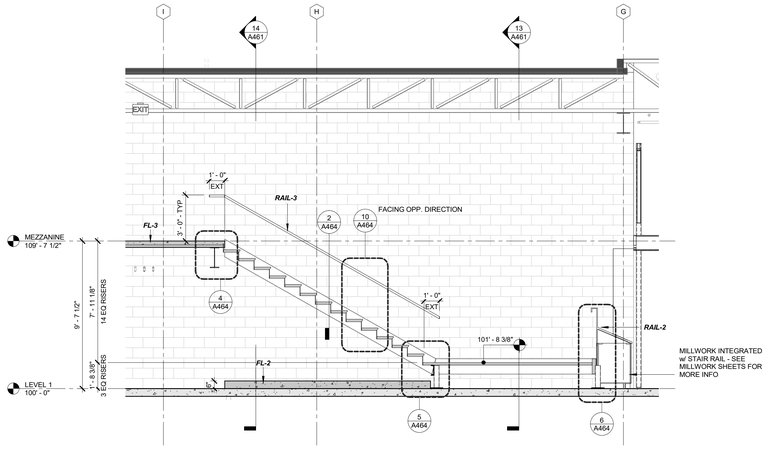


14 VERTICAL CIRCULATION SECTION - STAIR A - CROSS
A461 1/4" = 1'-0"



15 VERTICAL CIRCULATION SECTION - STAIR A - LONG
A461 1/4" = 1'-0"

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Boelter Premier
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MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

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VERTICAL CIRCULATION - STAIR A & PLATFORM LADDERS

A461

VERTICAL CIRCULATION GENERAL NOTES

1. PROVIDE BLOCKING AT ALL WALL MOUNTED RAILINGS

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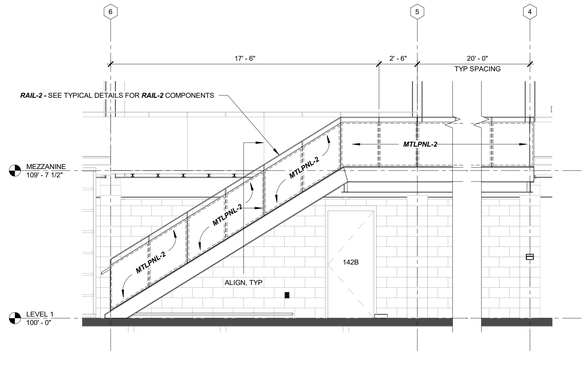
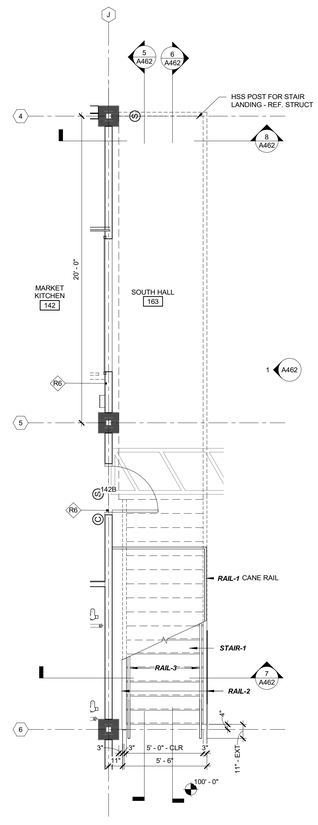
10. RETURN ALL HANDRAILS AT ENDS BACK TO WALL OR GUARDRAIL.

1 HR RATED CONSTRUCTION



1 INT ELEVATION - STAIR B - RAIL ELEVATION
A462 1/4" = 1'-0"



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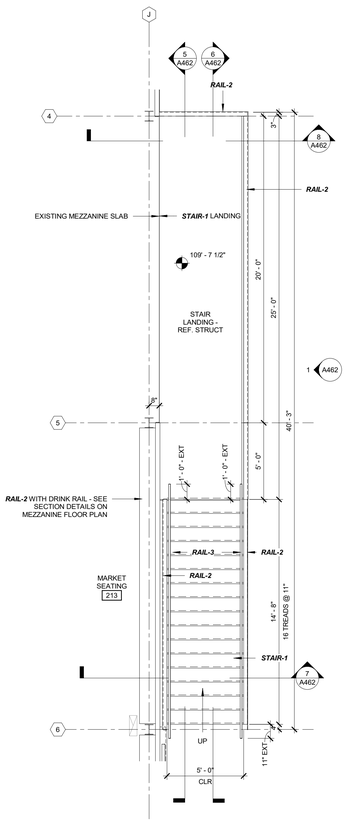

3 VERTICAL CIRCULATION PLAN - MEZZ - STAIR B
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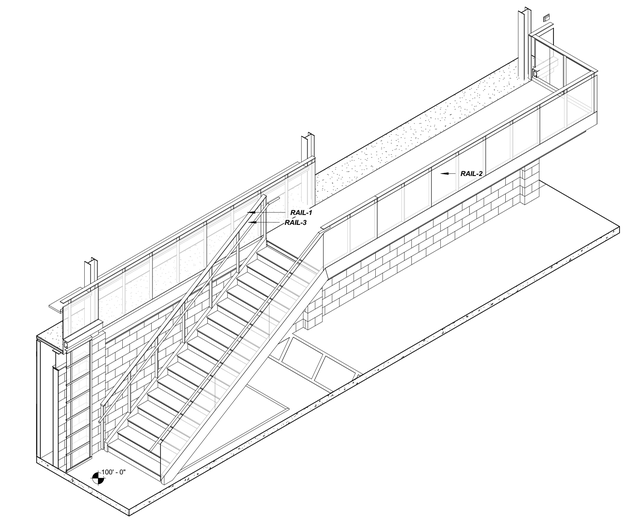
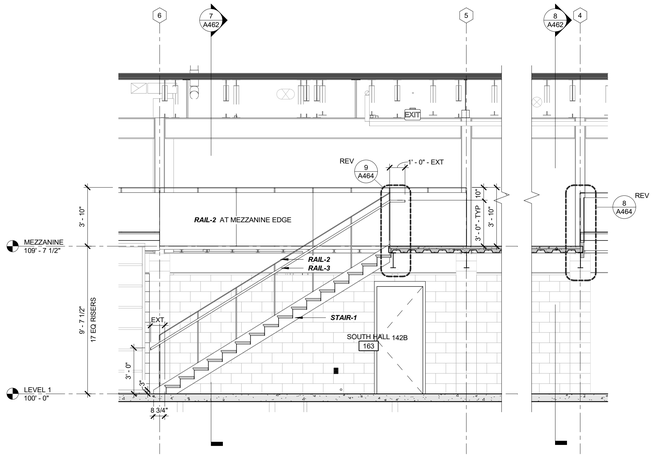


4 STAIR B - AXON
A462



5 VERTICAL CIRCULATION SECTION - STAIR B
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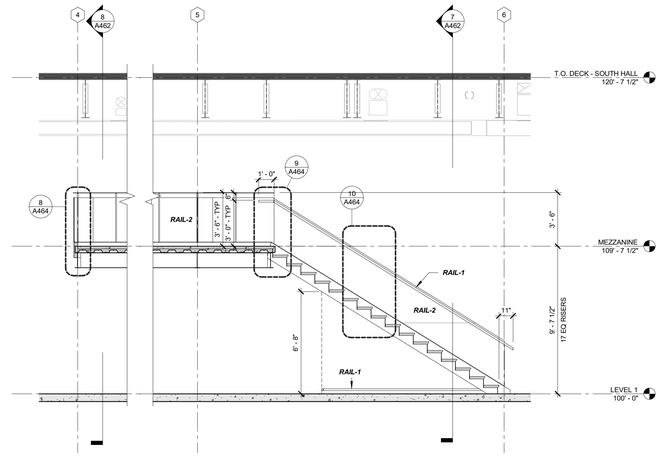

6 VERTICAL CIRCULATION SECTION - STAIR B
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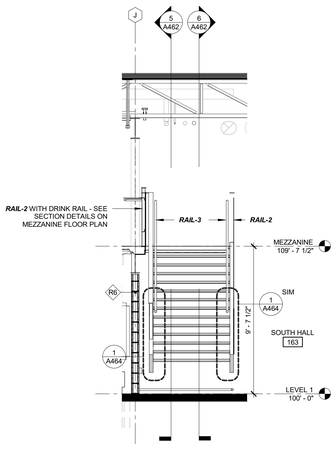

7 VERTICAL CIRCULATION SECTION - STAIR B
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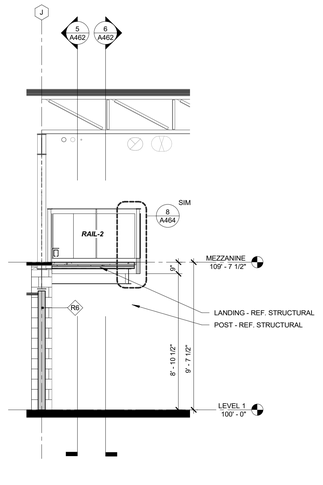

8 VERTICAL CIRCULATION SECTION - STAIR B
A462 1/4" = 1'-0"

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Project No: 2018006.00

MADISON PUBLIC MARKET

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dagmara Larsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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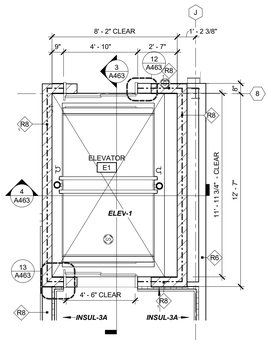
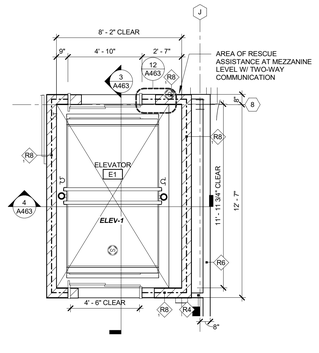
VERTICAL CIRCULATION - STAIR B

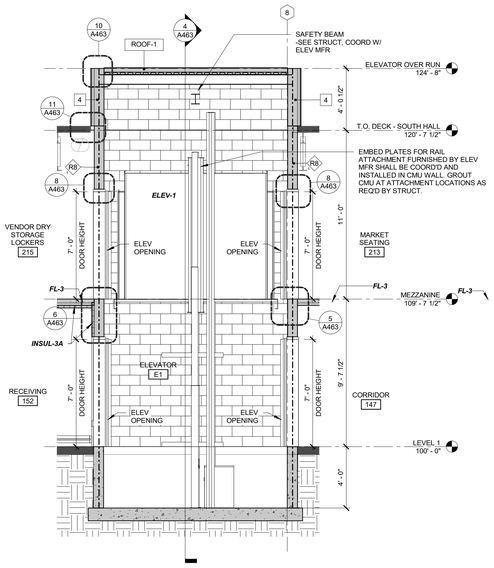
A462



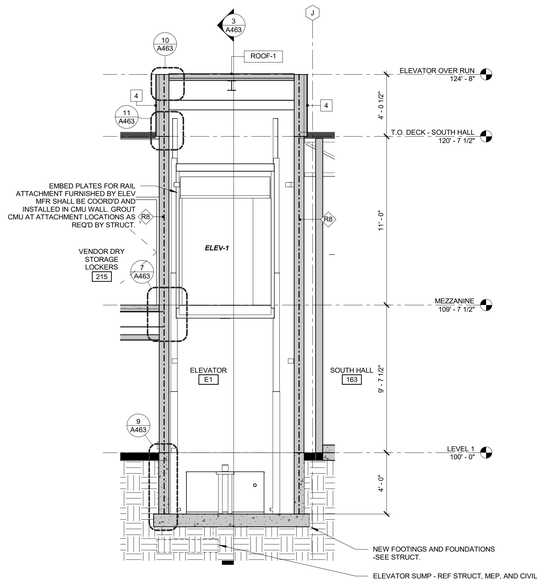
1 VERTICAL CIRCULATION PLAN - ELEV-1 - LEVEL 1
A463 1/4" = 1'-0"



2 VERTICAL CIRCULATION PLAN - ELEV-1 - MEZZANINE
A463 1/4" = 1'-0"



3 VERTICAL CIRCULATION SECTION - ELEV-1 - EW
A463 1/4" = 1'-0"



4 VERTICAL CIRCULATION SECTION - ELEV-1 - NS
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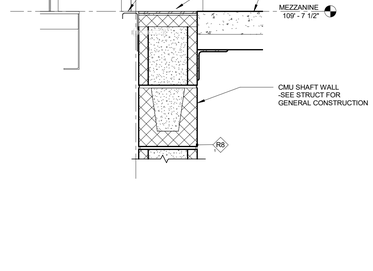
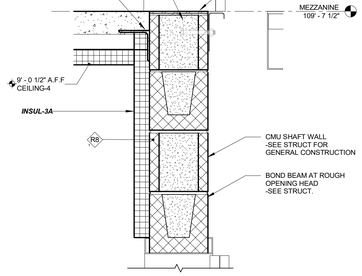
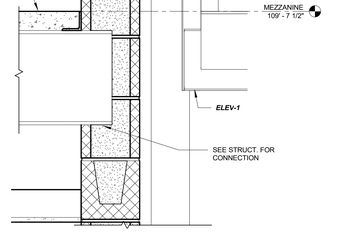


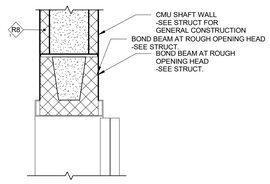
5 ELEV-1 OPENING SILL AT MEZZANINE
A463 1 1/2" = 1'-0"



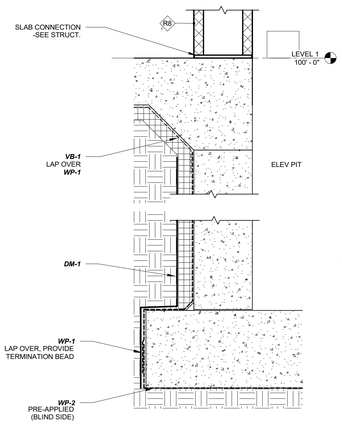
6 ELEV-1 OPENING AT STORAGE LOCKERS
A463 1 1/2" = 1'-0"



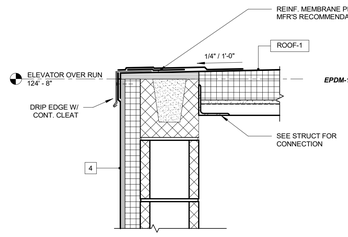
7 R8 ELEV-1 SHAFT AT FLOOR LINE
A463 1 1/2" = 1'-0"



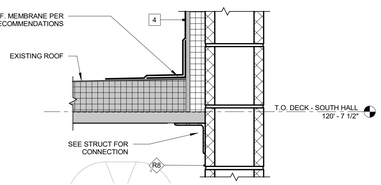
8 TYP HEAD AT ELEV-1 OPENING
A463 1 1/2" = 1'-0"



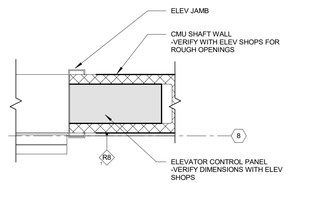
9 ELEV - 1 R8 SHAFT AT NEW OPENING
A463 1 1/2" = 1'-0"



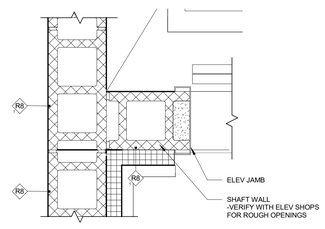
10 ELEVATOR OVERRUN COPING
A463 1 1/2" = 1'-0"



11 EXT DTL - ELEV-1 OVERRUN AT DECK
A463 1 1/2" = 1'-0"



12 INT PLAN DTL - ELEV 1 OPENING AT CORRIDOR
A463 1 1/2" = 1'-0"



13 INT PLAN DTL - ELEV 1 - JAMB AT LVL 1 STORAGE
A463 1 1/2" = 1'-0"

VERTICAL CIRCULATION GENERAL NOTES

1. PROVIDE BLOCKING AT ALL WALL MOUNTED RAILINGS

2. ALL EXPOSED STEEL AT STAIR - STRINGERS, RISERS, GUARDRAILS, ETC, SHALL BE FINISHED TO MATCH ARCHITECTURAL INTERIOR STEEL CANOPIES (***PT-7***) UNLESS NOTED OTHERWISE - SEE A110 SHEETS FOR NOTES ON STEEL CANOPIES

3. SEE TYPICAL DETAILS REFERENCED ON PLANS AND SECTIONS FOR COMPONENTS OF ***RAIL-2*** SYSTEM

4. ALL TREADS SHALL BE CAST IN PLACE CONCRETE WITH POLISHED FINISH

5. EXTEND HANDRAIL 12" BEYOND FIRST RISER NOSING AT TOP OF STAIR FLIGHTS AND EXTENT HANDRAIL ONE TREAD DEPTH BEYOND LAST RISER NOSING AT BOTTOM OF STAIR FLIGHTS - RETURN HANDRAIL TO WALLS, TYPICALLY. SEE DETAILS FOR NON TYPICAL CONDITIONS

6. MAINTAIN CLEAR WIDTHS INDICATED ON PLANS

7. COORDINATE ROUGH OPENINGS FOR ELEVATOR DOORS WITH ELEVATOR MANUFACTURER

8. COORDINATE SUMP PUMP WITH STRUCTURAL, ELECTRICAL AND CIVIL

9. COORDINATE LOCATION OF PIT LADDER WITH ELEVATOR MANUFACTURER.

10. RETURN ALL HANDRAILS AT ENDS BACK TO WALL OR GUARDRAIL.

1 HR RATED CONSTRUCTION

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Landscape Architect

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Boelter Premier

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MADISON PUBLIC MARKET

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Project No: 20190606.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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VERTICAL CIRCULATION - ELEVATOR PLANS SECTIONS AND DETAILS

A463

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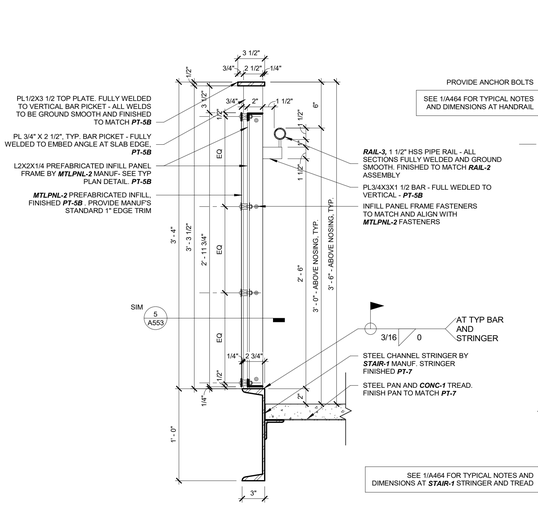
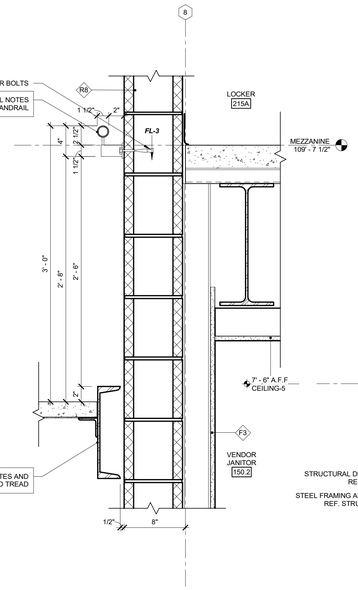
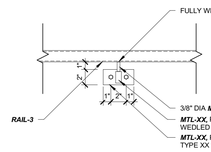


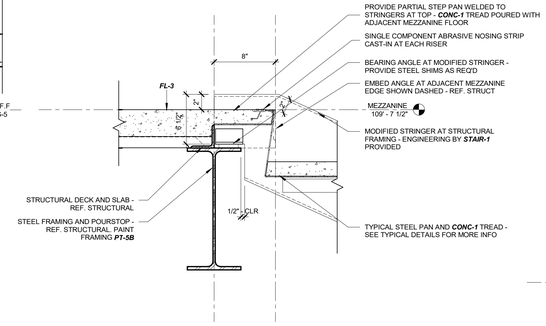
1 INT DTL - STAIR A - TYP RAIL-2
A464 1 1/2" = 1'-0"



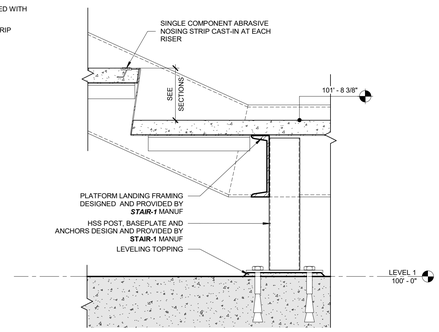
2 INT DTL - STAIR A - TYP RAIL 3 AT WALL
A464 1 1/2" = 1'-0"



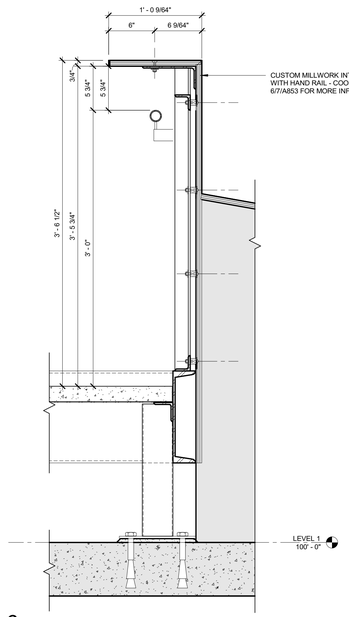
3 INT DETL - RAIL-3 WALL BRACKET
A464 1 1/2" = 1'-0"



4 INT DETAIL - STAIR A - TOP RISER
A464 1 1/2" = 1'-0"



5 INT DTL - STAIR 1 - BOTTOM RISER AT LANDING
A464 1 1/2" = 1'-0"



6 INT DETAIL - STAIR 1 - RAIL-2 AT TRASH
A464 1 1/2" = 1'-0"

7 INT DETAIL - STAIR 1 - INT RAIL 2 AT LANDING
A464 1 1/2" = 1'-0"

8 INT DTL - STAIR 2 - RAILING AT LANDING
A464 1 1/2" = 1'-0"

9 INT DTL - STAIR 2 - LANDING AT TOP OF FLIGHT
A464 1 1/2" = 1'-0"

10 INT DETAIL - TYP RAIL-2 PATERN AT STAIR FLIGHT
A464 1 1/2" = 1'-0"

11 INT DETAIL - STAIR 2 - LANDING AT BOTTOM FLIGHT
A464 1 1/2" = 1'-0"

12 INT PLAN DTL - STAIR 1 - RAIL-2 TOP CORNER
A464 1 1/2" = 1'-0"

13 INT PLAN DETAIL - STAIR 1 - RAIL-2 LANDING CORNER
A464 1 1/2" = 1'-0"

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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VERTICAL CIRCULATION - STAIR DETAILS

A464

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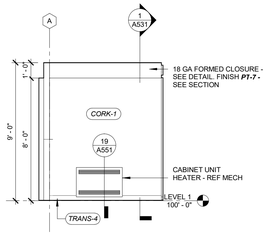
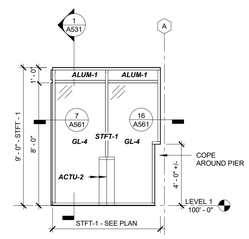
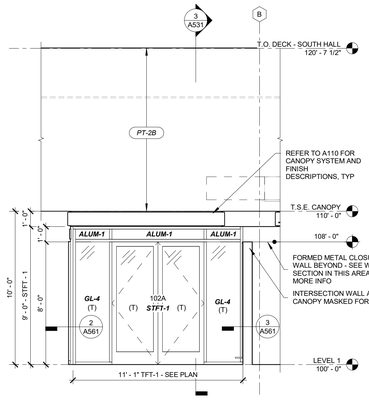


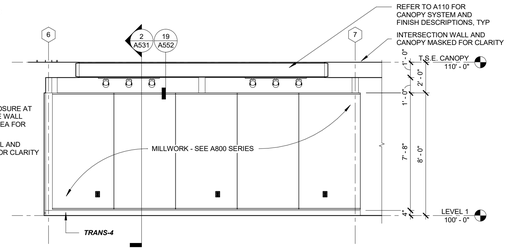
1 INT ELEVATION - VEST. 100 - E
A501 1/4" = 1'-0"



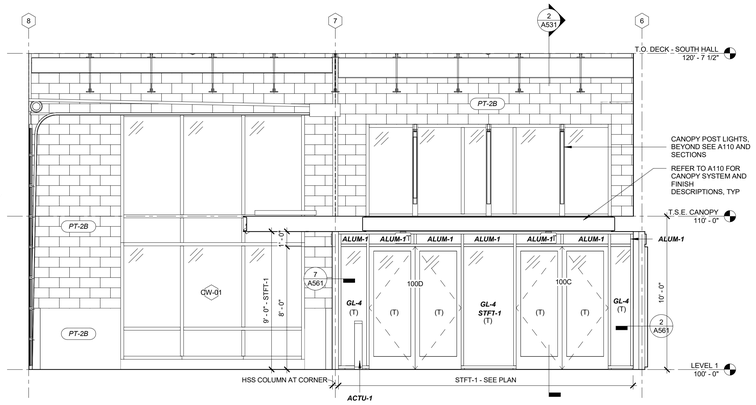
2 INT ELEVATION - VEST. 100 - W
A501 1/4" = 1'-0"



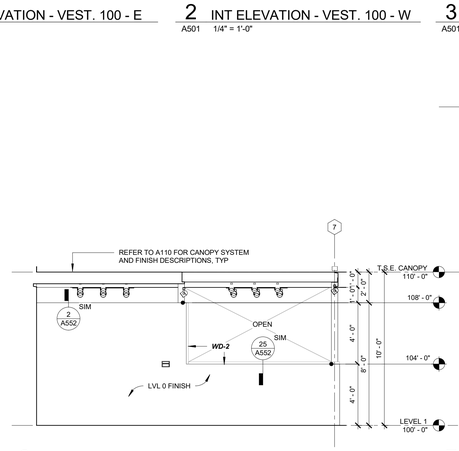
3 INT ELEVATION - 101 E
A501 1/4" = 1'-0"



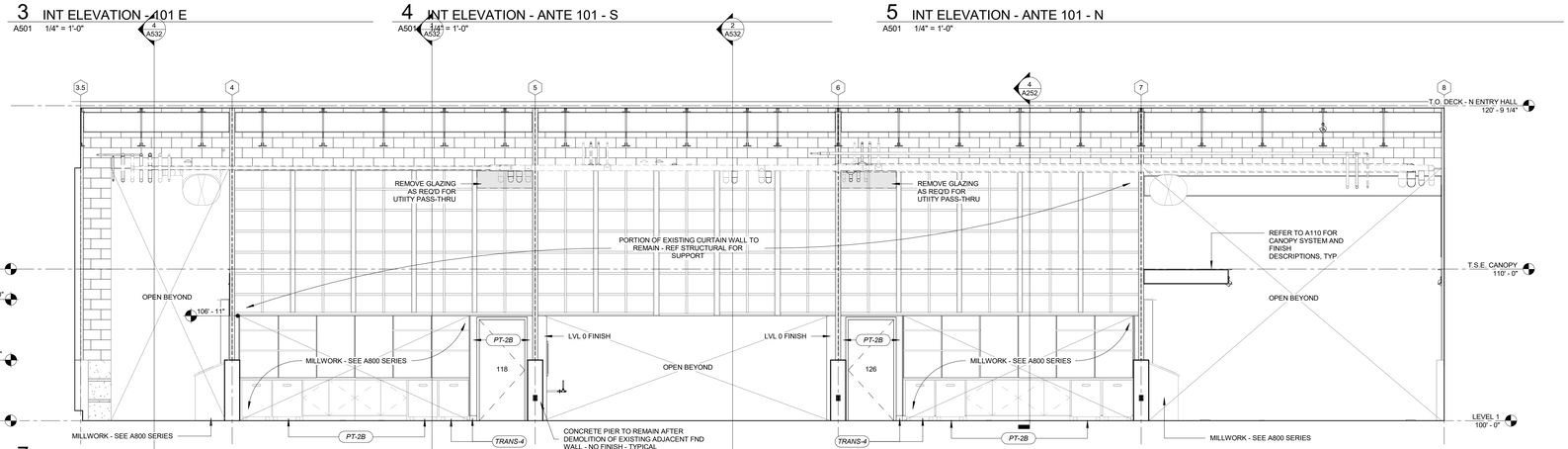
4 INT ELEVATION - ANTE 101 - S
A501 1/4" = 1'-0"



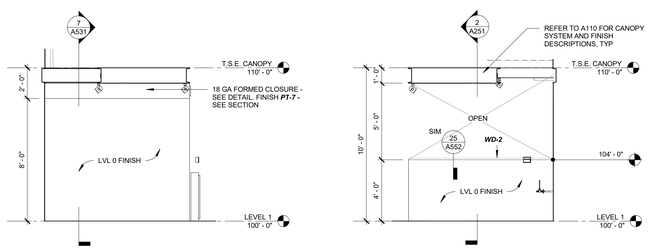
5 INT ELEVATION - ANTE 101 - N
A501 1/4" = 1'-0"



6 INT ELEVATION - 104 S
A501 1/4" = 1'-0"

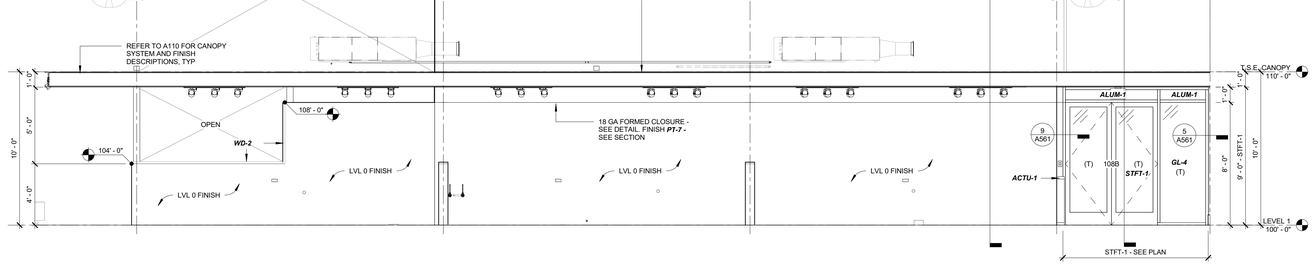


7 INT ELEVATION - CORRIDOR 109 - S
A501 1/4" = 1'-0"

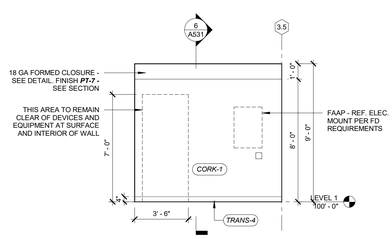


8 INT ELEVATION - 107 E2
A501 1/4" = 1'-0"

9 INT ELEVATION - 107 W
A501 1/4" = 1'-0"



10 INT ELEVATION - CORRIDOR 109 - N
A501 1/4" = 1'-0"



11 INT ELEVATION - VESTIBULE 108 - N
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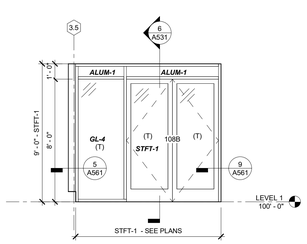
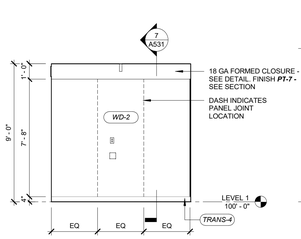
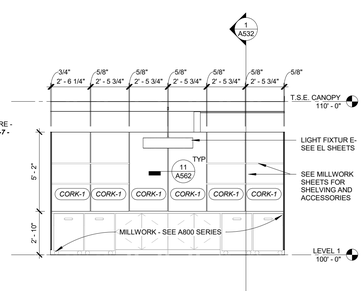


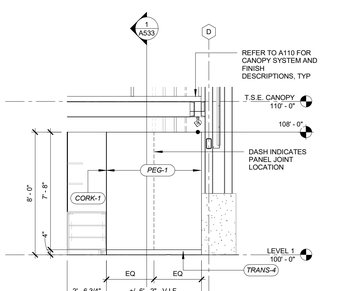
12 INT ELEVATION - VESTIBULE 108 - S
A501 1/4" = 1'-0"



13 INT ELEVATION - VESTIBULE 108 - W
A501 1/4" = 1'-0"



14 INT ELEVATION - SHARED VENDOR 117 - S
A501 1/4" = 1'-0"



15 INT ELEVATION - SHARED VENDOR 117 - W
A501 1/4" = 1'-0"

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Architect Seal

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MN
ARCHITECT
WISCONSIN

Signature Dlarsen

Print Name Dagmara Larsen

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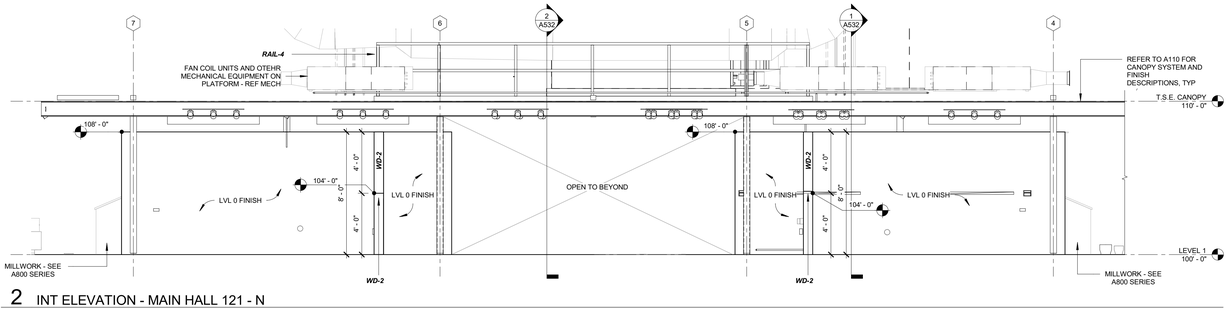
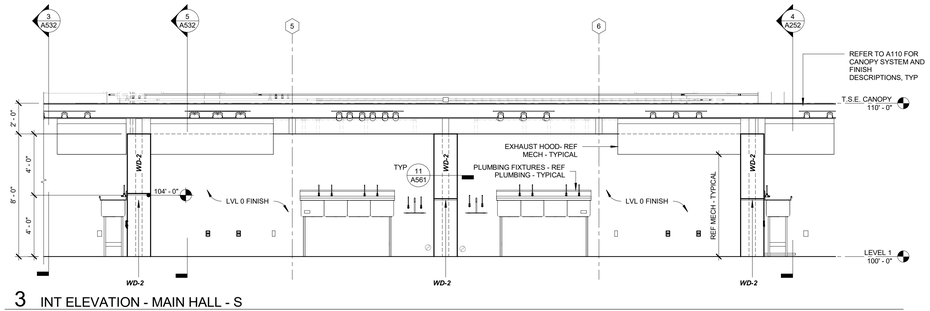
INTERIOR ELEVATIONS - ENTRY HALL

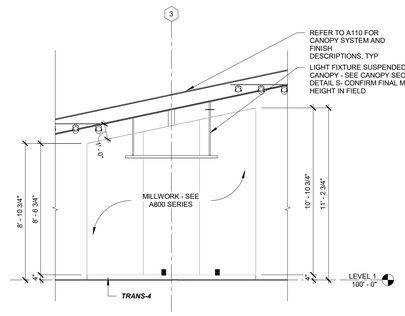
A501



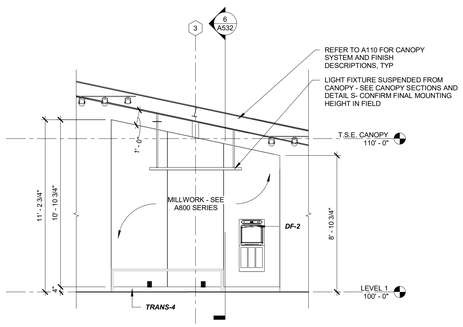
2 INT ELEVATION - MAIN HALL 121 - N
A502 1/4" = 1'-0"



3 INT ELEVATION - MAIN HALL - S
A502 1/4" = 1'-0"



10 INT ELEVATION - EAST GATHERING SPACE 112N
A502 1/4" = 1'-0"



11 INT ELEVATION - EAST GATHERING SPACE 112S
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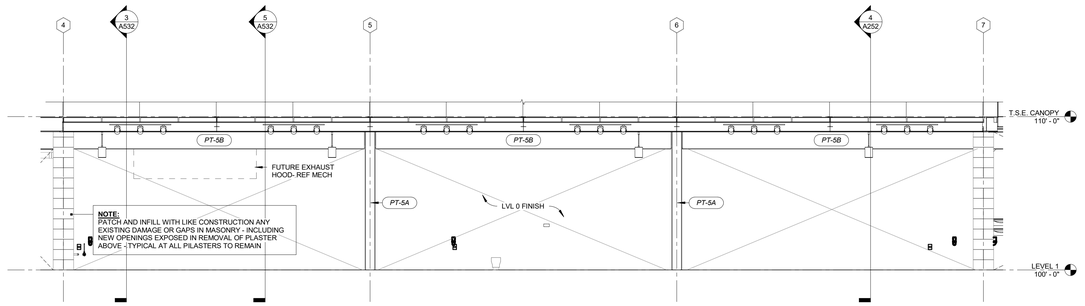
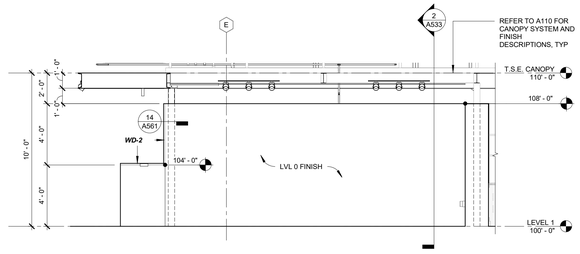


9 INT ELEVATION - VENDOR GROUP 7 125 - S
A502 1/4" = 1'-0"



1 INT ELEVATION - 119 W
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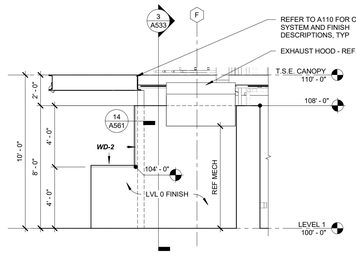
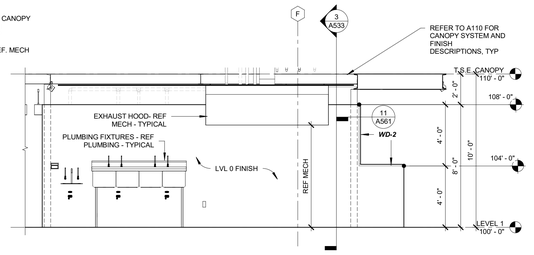
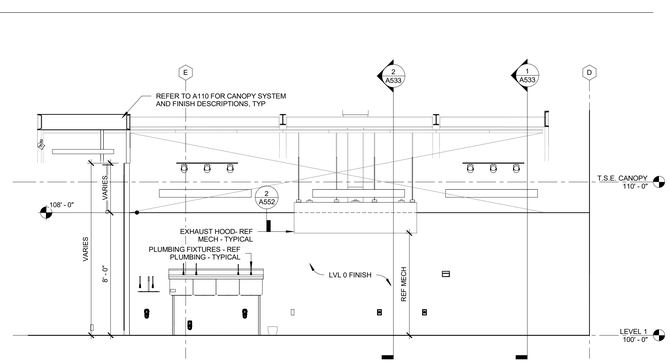


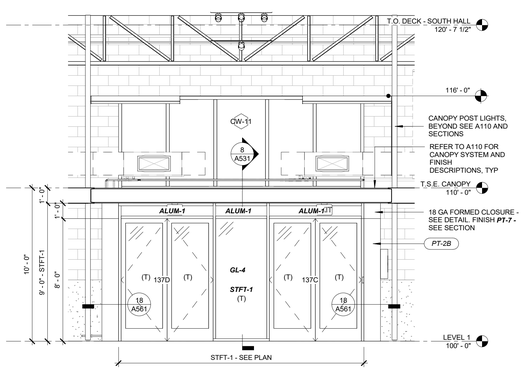
5 INT ELEVATION - 122 E
A502 1/4" = 1'-0"



6 INT ELEVATION - 122 W
A502 1/4" = 1'-0"



4 INT ELEVATION - 111 W
A502 1/4" = 1'-0"



7 INT ELEVATION - 134 W
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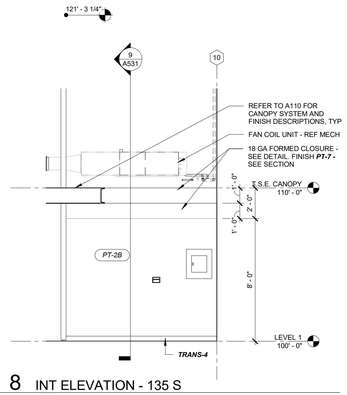

8 INT ELEVATION - 135 S
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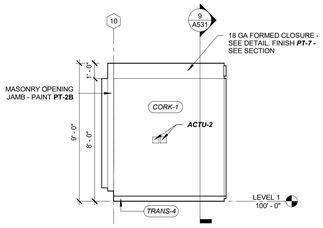
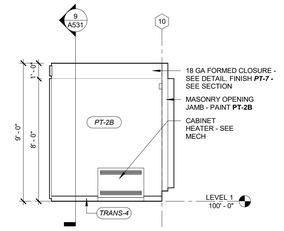


12 INT ELEVATION - VESTIBULE 137 N
A502 1/4" = 1'-0"



13 INT ELEVATION - VESTIBULE 137 S
A502 1/4" = 1'-0"

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Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace.
Minneapolis, MN 55428 | 763. 544. 8800

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Project No: 2019006.00

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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INTERIOR ELEVATIONS - MAIN HALL

A502

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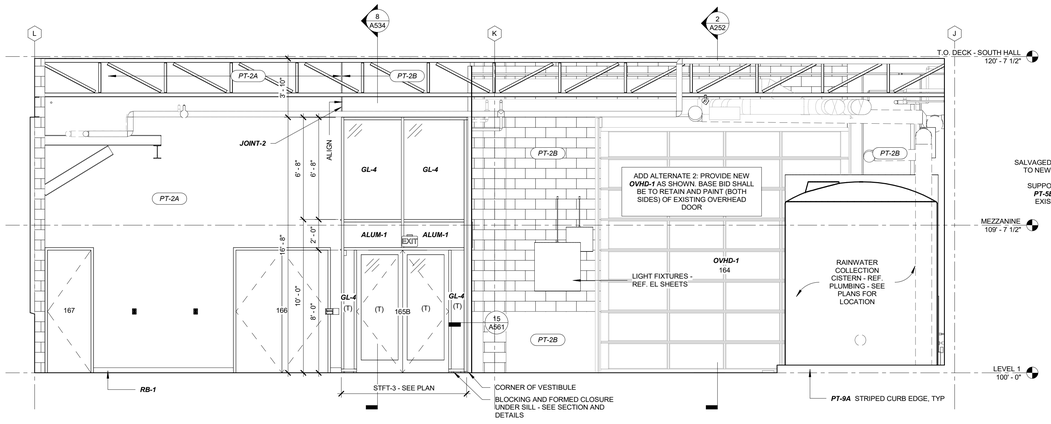
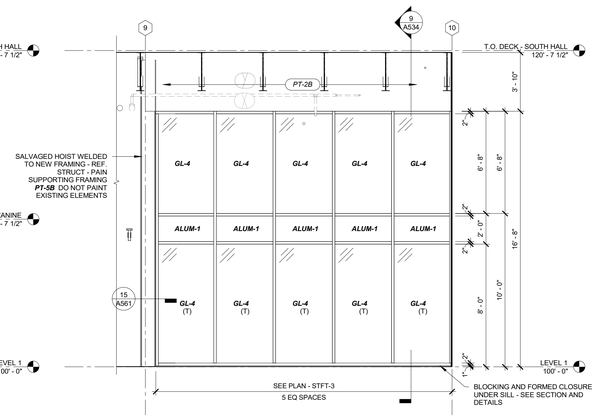


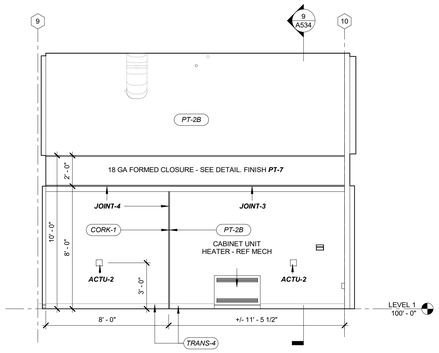
1 INT ELEVATION - SOUTH HALL 163 - W

A503 1/4" = 1'-0"



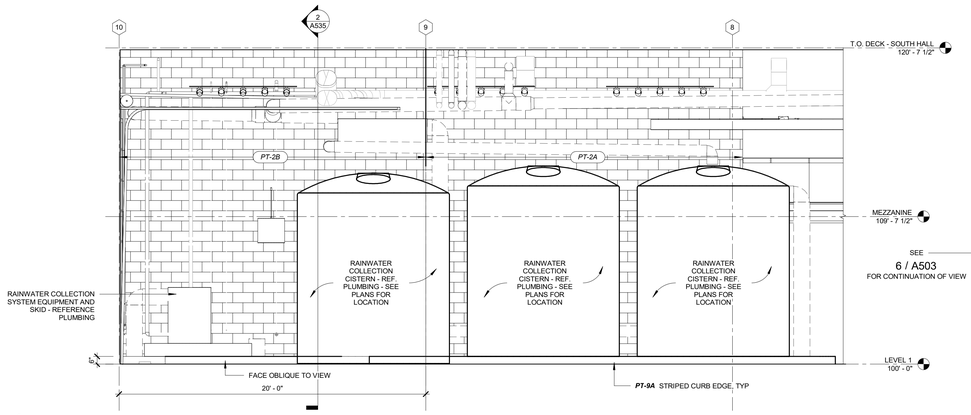
2 INT ELEVATION - WAITING 164 - S

A503 1/4" = 1'-0"



3 SOUTH INT ELEV - S HALL VESTIBULE

A503 1/4" = 1'-0"

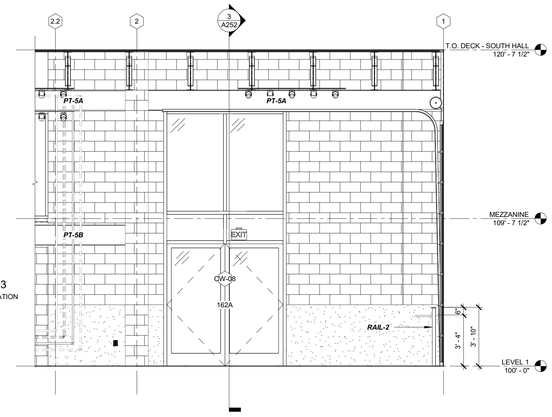


4 INT ELEVATION - WAITING 164 - N

A503 1/4" = 1'-0"

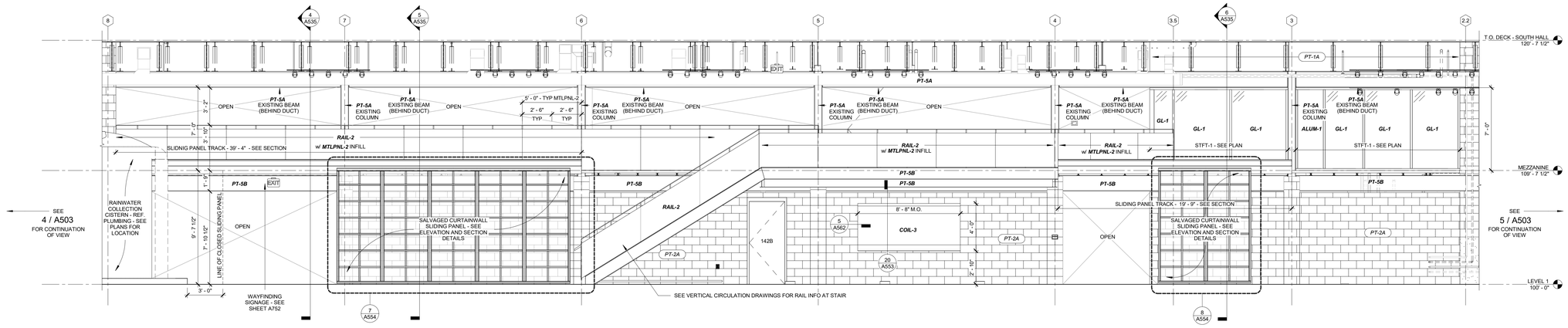
SEE 6 / A503 FOR CONTINUATION OF VIEW

SEE 6 / A503 FOR CONTINUATION OF VIEW



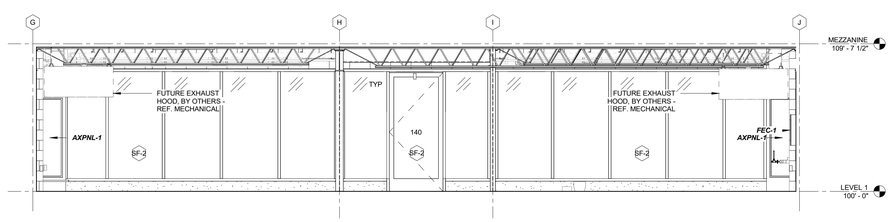
5 INT ELEVATION - ANCHOR VENDOR 162 - N

A503 1/4" = 1'-0"



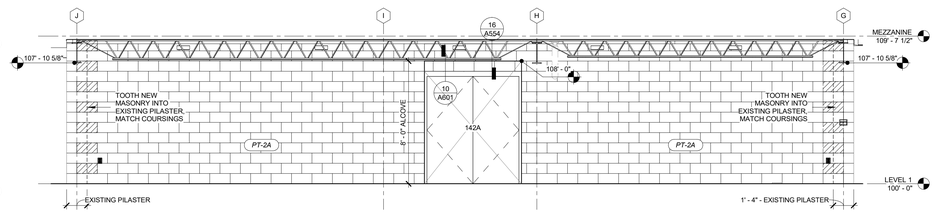
6 INT ELEVATION - SOUTH HALL 163 - N

A503 1/4" = 1'-0"



7 INT ELEVATION - VENDOR GROUP 10 - E

A503 1/4" = 1'-0"



8 INT ELEVATION - VENDOR GROUP 10 - W

A503 1/4" = 1'-0"

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Project No: 20190606.00

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Architect Seal

DAGMARA K. LARSEN 13278-5 MINNEAPOLIS MN ARCHITECT WISCONSIN

Signature

Print Name Dagmara Larsen

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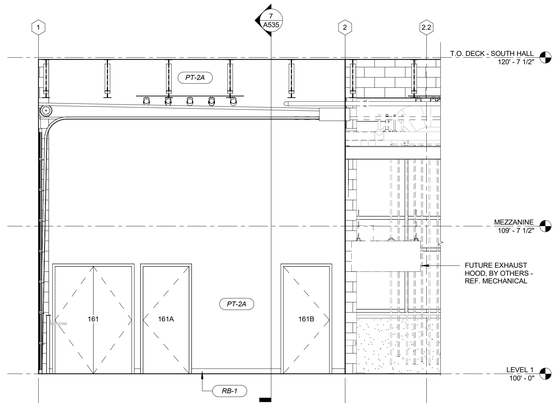
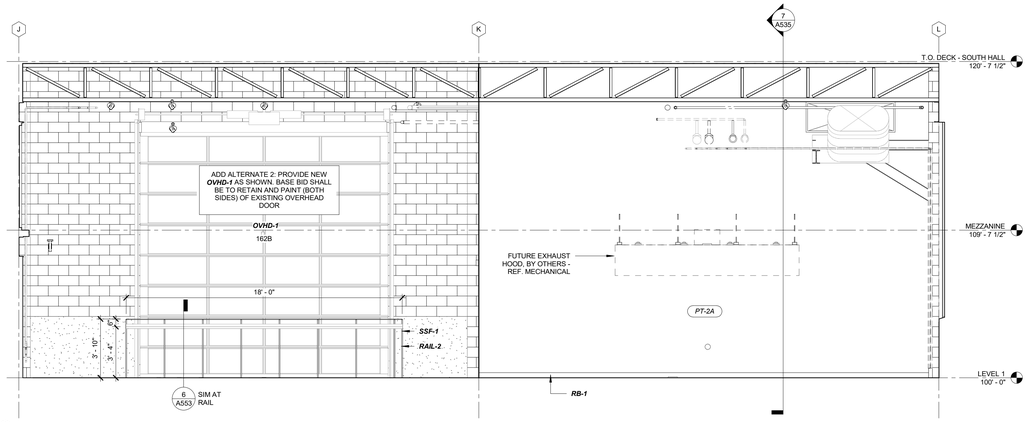
INTERIOR ELEVATIONS - SOUTH HALL

A503



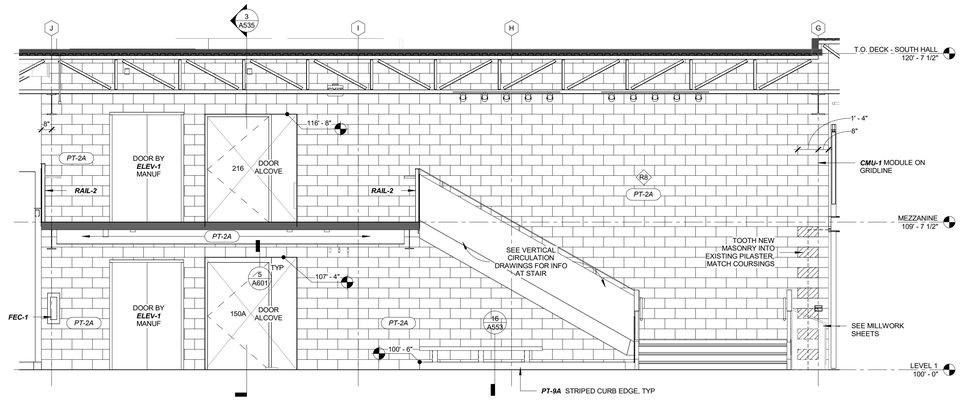
1 INT ELEVATION - ANCHOR VENDOR 162 - S

A504 1/4" = 1'-0"



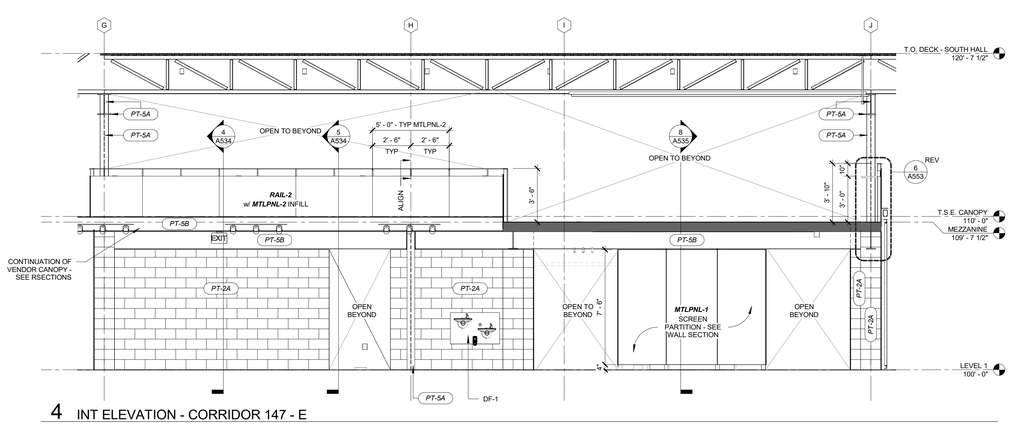
2 INT ELEVATION - SOUTH HALL 163 - E

A504 1/4" = 1'-0"



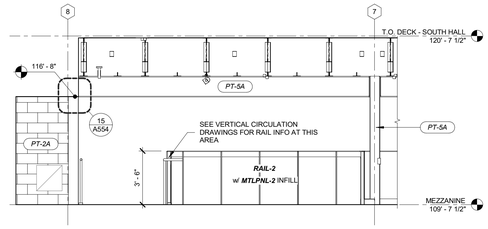
3 INT ELEVATION - CORRIDOR 134 - W

A504 1/4" = 1'-0"



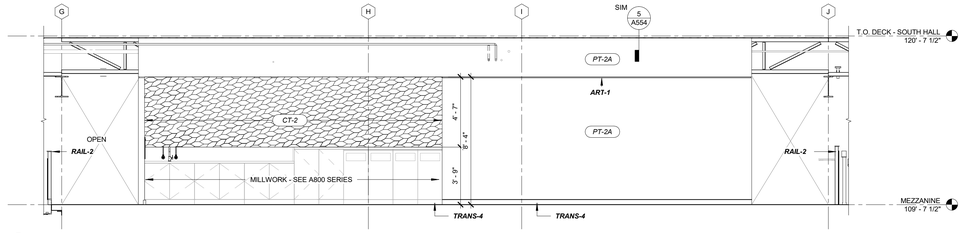
4 INT ELEVATION - CORRIDOR 147 - E

A504 1/4" = 1'-0"



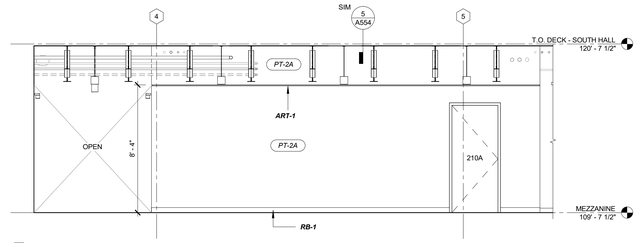
5 INT ELEVATION - MARKET SEATING - LANDING

A504 1/4" = 1'-0"



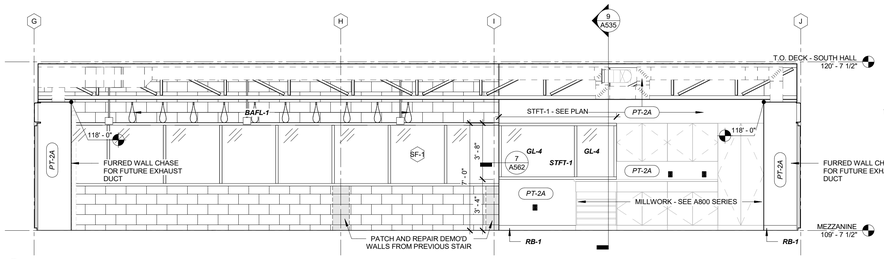
6 INT ELEVATION - MARKET SEATING 213 - E

A504 1/4" = 1'-0"



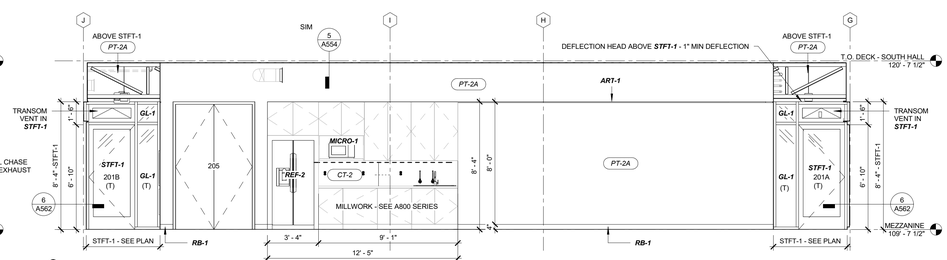
7 INT ELEVATION - MARKET SEATING CORRIDOR - S

A504 1/4" = 1'-0"



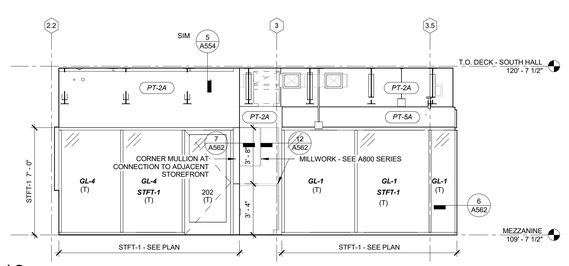
8 INT ELEVATION - ADMIN 201 - E

A504 1/4" = 1'-0"



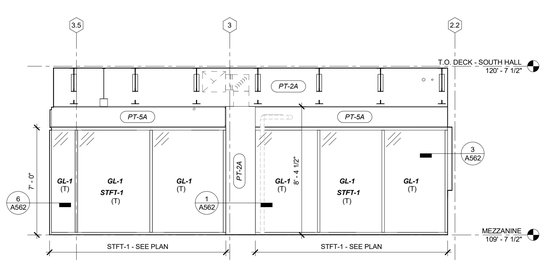
9 INT ELEVATION - ADMIN 201 - W

A504 1/4" = 1'-0"



10 INT ELEVATION - ADMIN 201 - S

A504 1/4" = 1'-0"



11 INT ELEVATION - ADMIN 201 - N

A504 1/4" = 1'-0"

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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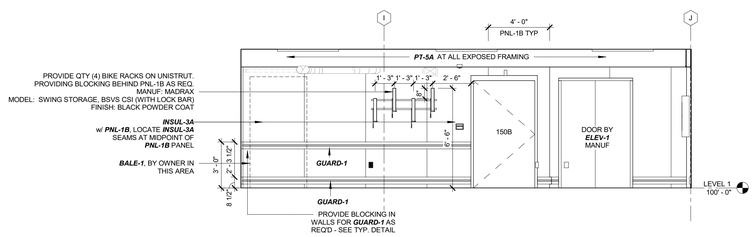
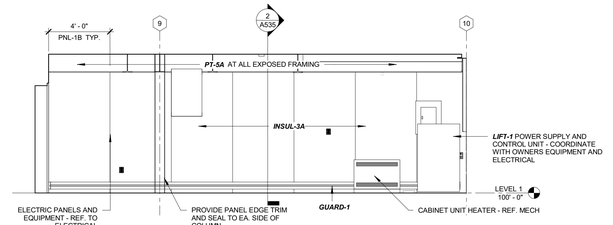
INTERIOR ELEVATIONS - SOUTH HALL AND LOWER MEZZANINE

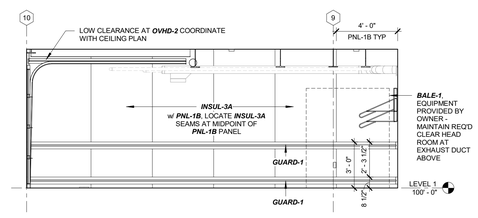
A504



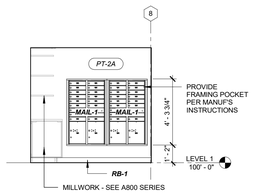
1 INT ELEVATION - 152 E
A505 1/4" = 1'-0"



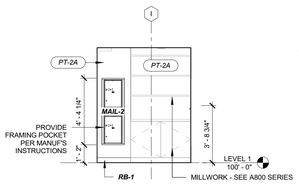
2 INT ELEVATION - 152 S
A505 1/4" = 1'-0"



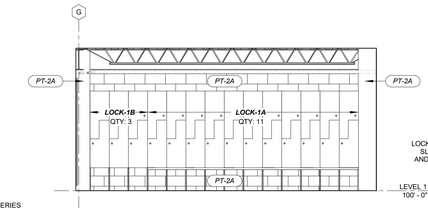
3 INT ELEVATION - 152 N
A505 1/4" = 1'-0"



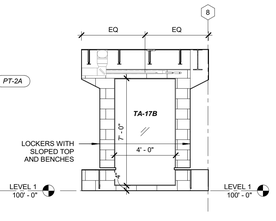
4 INT ELEVATION - MAIL ROOM 149 - N
A505 1/4" = 1'-0"



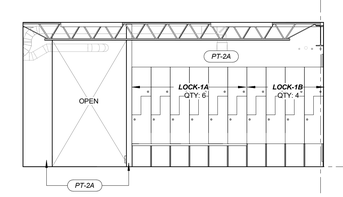
5 INT ELEVATION - MAIL ROOM 149 - W
A505 1/4" = 1'-0"



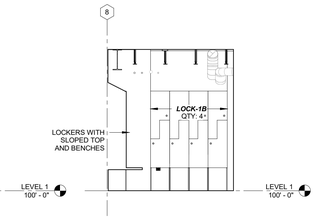
6 INT ELEVATION - 148 E
A505 1/4" = 1'-0"



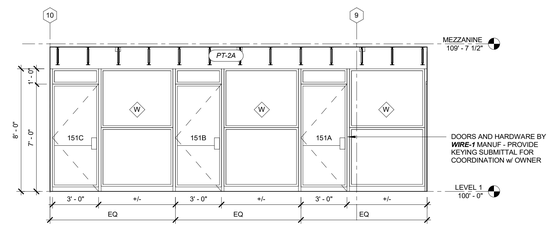
7 INT ELEVATION - 148 N
A505 1/4" = 1'-0"



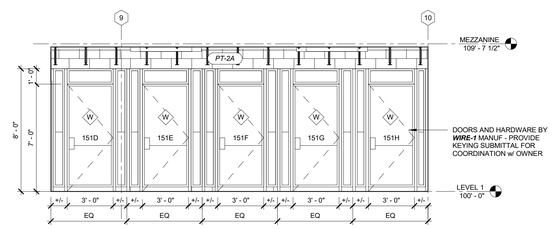
8 INT ELEVATION - 148 W
A505 1/4" = 1'-0"



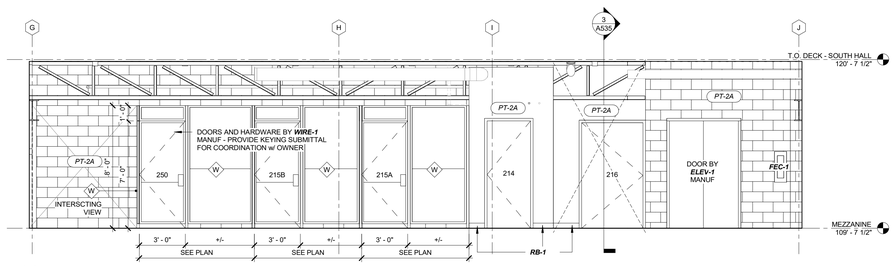
9 INT ELEVATION - 148 S
A505 1/4" = 1'-0"



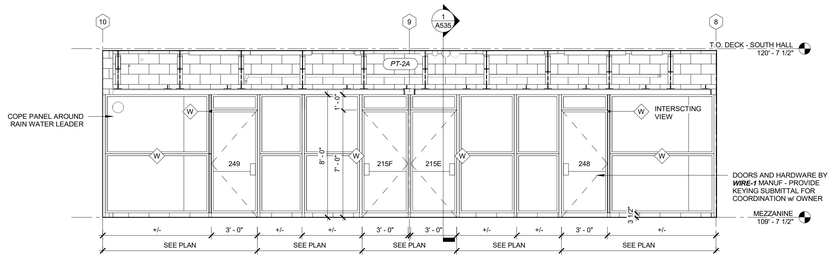
10 INT ELEVATION - 151 N
A505 1/4" = 1'-0"



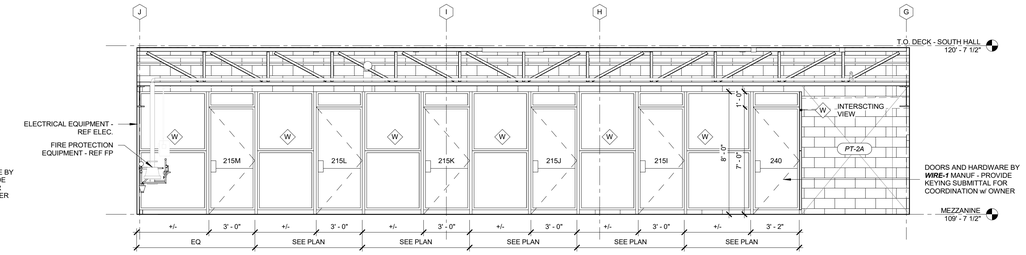
11 INT ELEVATION - 151 S
A505 1/4" = 1'-0"



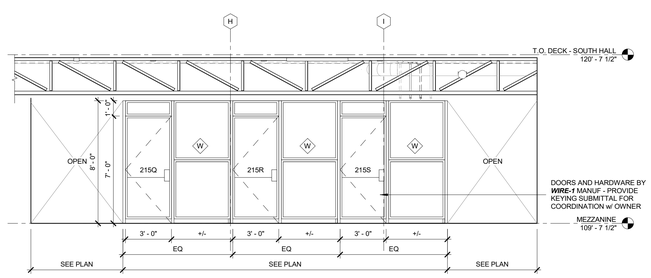
12 INT ELEVATION - 215 E1
A505 1/4" = 1'-0"



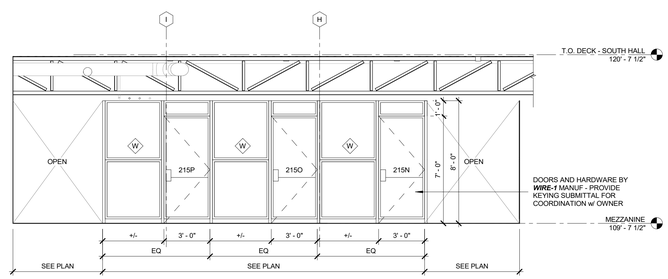
13 INT ELEVATION - 215 N1
A505 1/4" = 1'-0"



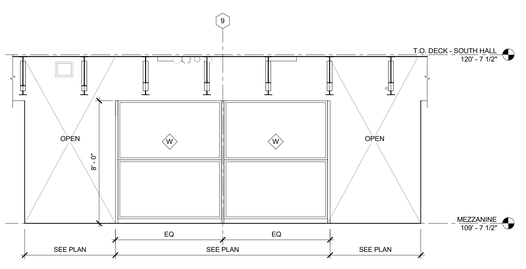
14 INT ELEVATION - 215 W2
A505 1/4" = 1'-0"



15 INT ELEVATION - 215 E2
A505 1/4" = 1'-0"



16 INT ELEVATION - 215 W1
A505 1/4" = 1'-0"



17 INT ELEVATION - 215 S
A505 1/4" = 1'-0"

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MADISON PUBLIC MARKET

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Project No. 2018006.00

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Architect Seal

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DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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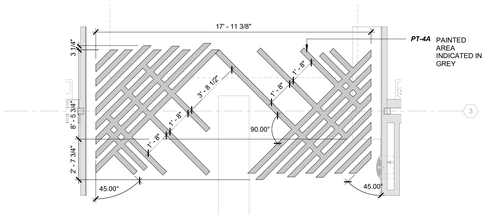
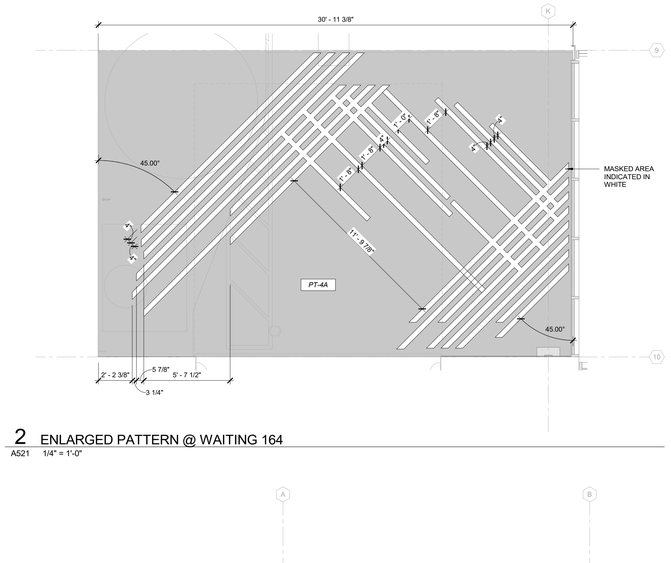
INTERIOR ELEVATIONS - STORAGE

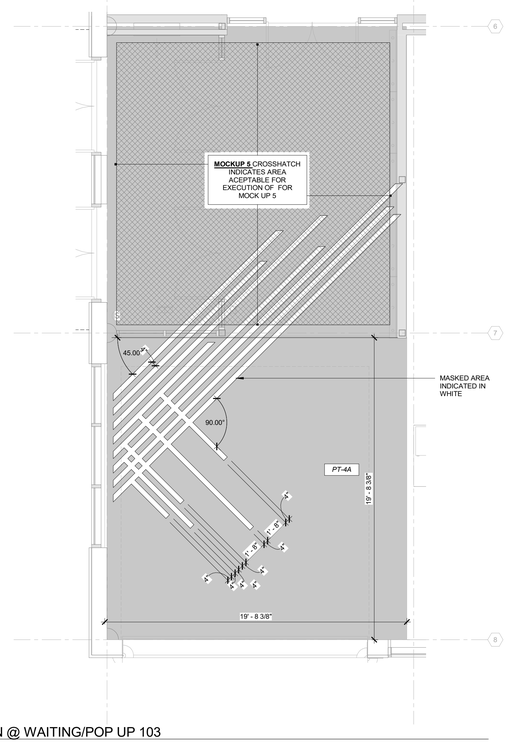
A505



1 ENLARGED PATTERN @ EAST GATHERING SPACE 112
A521 1/4" = 1'-0"



2 ENLARGED PATTERN @ WAITING 164
A521 1/4" = 1'-0"



3 ENLARGED PATTERN @ WAITING/POP UP 103
A521 1/4" = 1'-0"

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ARCHITECT

Signature

Print Name Dagmara Larsen

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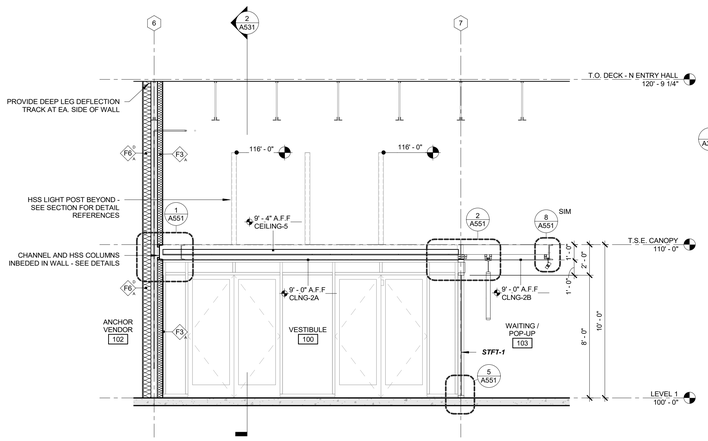
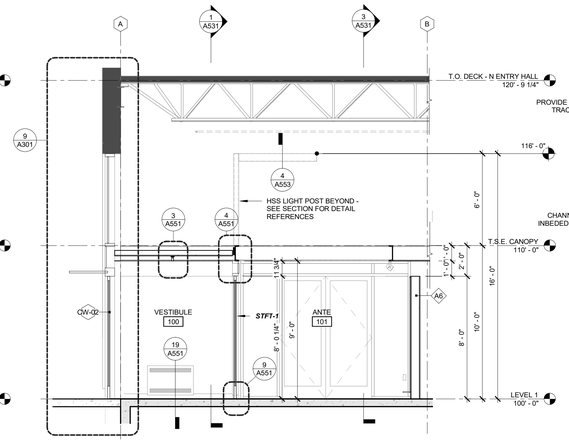
INTERIOR PATTERNS

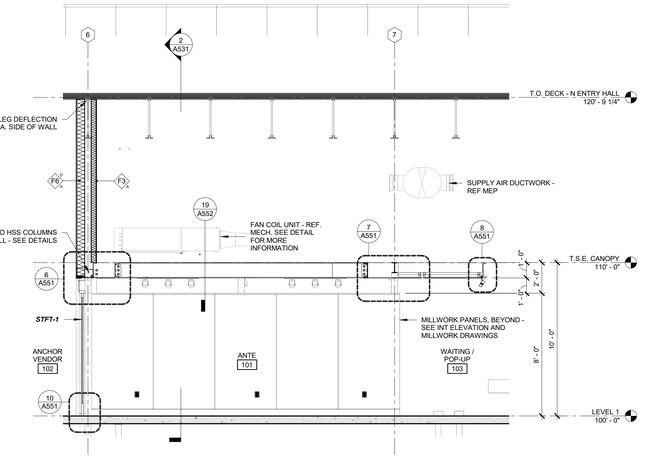
A521



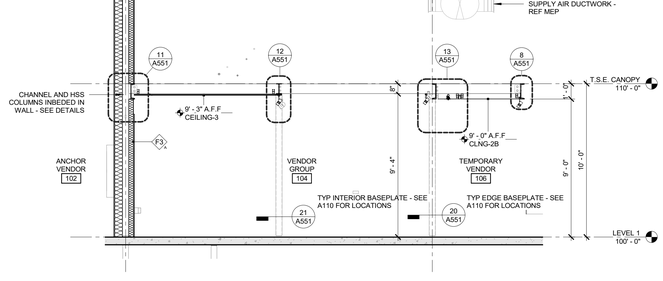
1 INT WALL SECTION - CANOPY 1 - EW (VESTIBULE 100)
A531 1/4" = 1'-0"



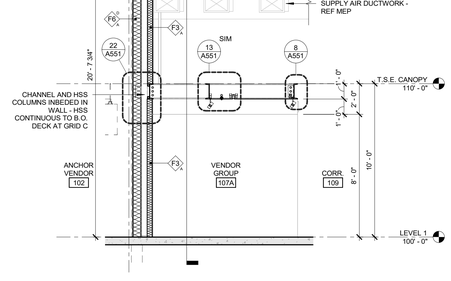
2 INT WALL SECTION - CANOPY 1 - NS 2 (VESTIBULE 100)
A531 1/4" = 1'-0"



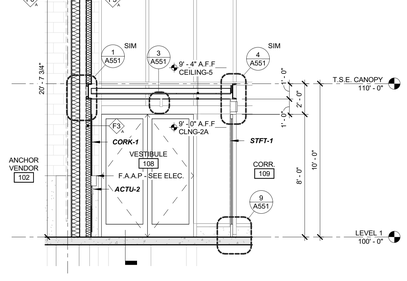
3 INT WALL SECTION - CANOPY 1 - EW1
A531 1/4" = 1'-0"



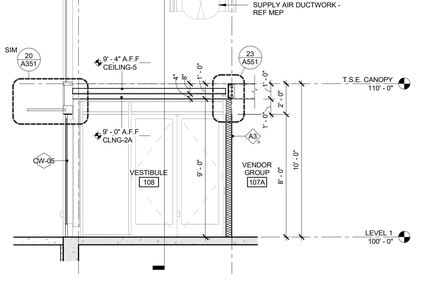
4 INT WALL SECTION - CANOPY 1 - EW2
A531 1/4" = 1'-0"



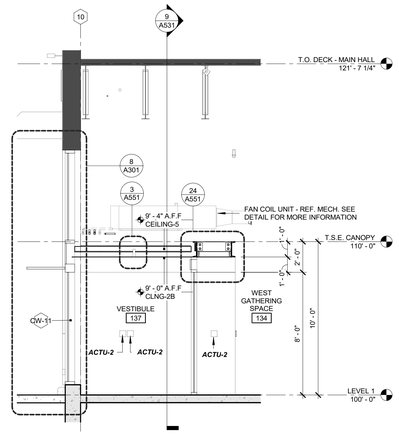
5 INT WALL SECTION - CANOPY 1 - NS
A531 1/4" = 1'-0"



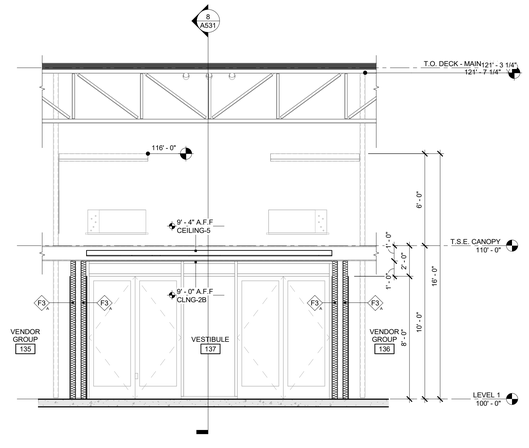
6 INT WALL SECTION - CANOPY 1 - EW (VESTIBULE 108)
A531 1/4" = 1'-0"



7 INT WALL SECTION - VESTIBULE 112 - EW
A531 1/4" = 1'-0"



8 INT WALL SECTION - VESTIBULE 137 E
A531 1/4" = 1'-0"



9 INT WALL SECTION - VESTIBULE 137
A531 1/4" = 1'-0"

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Architect Seal

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MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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INTERIOR CANOPY SECTIONS

A531

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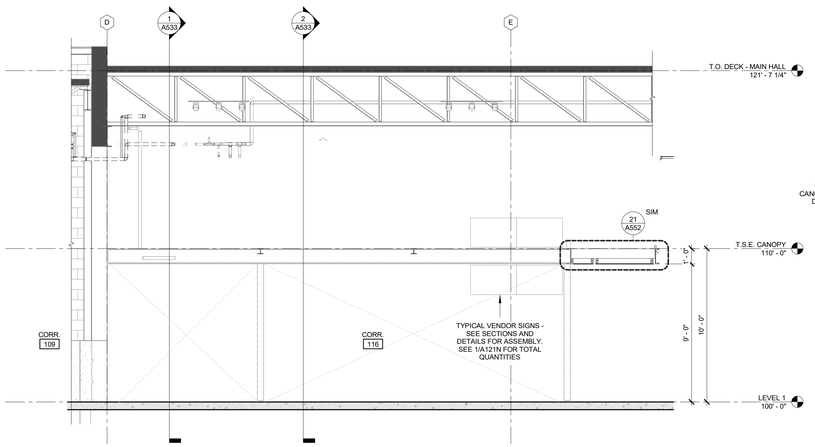
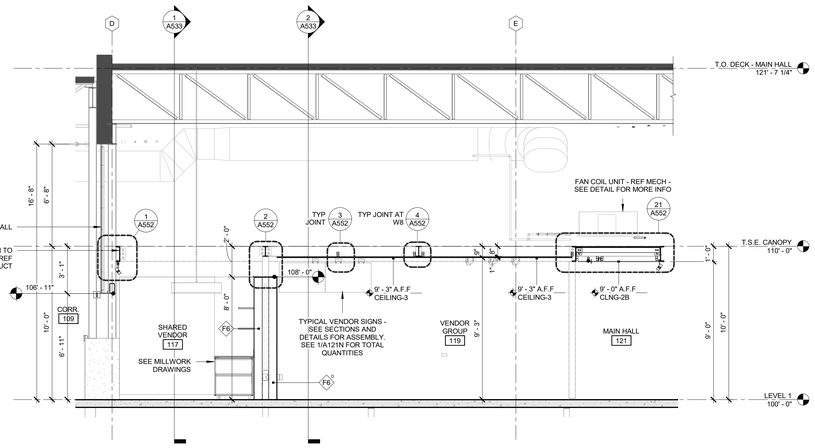
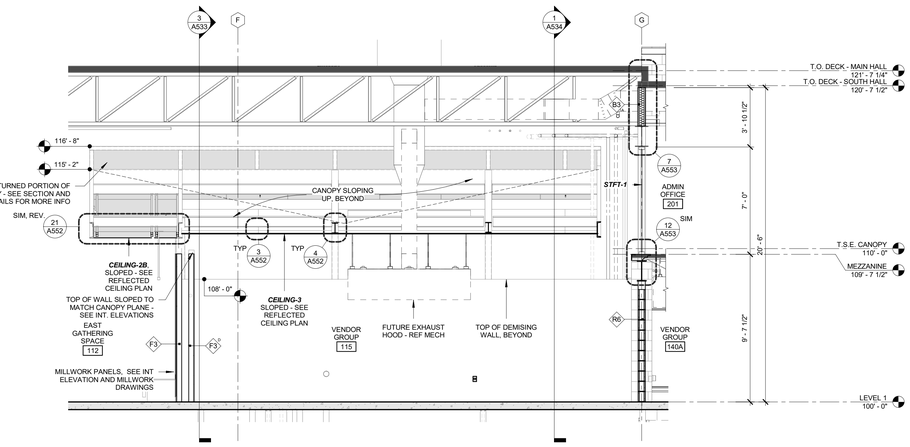


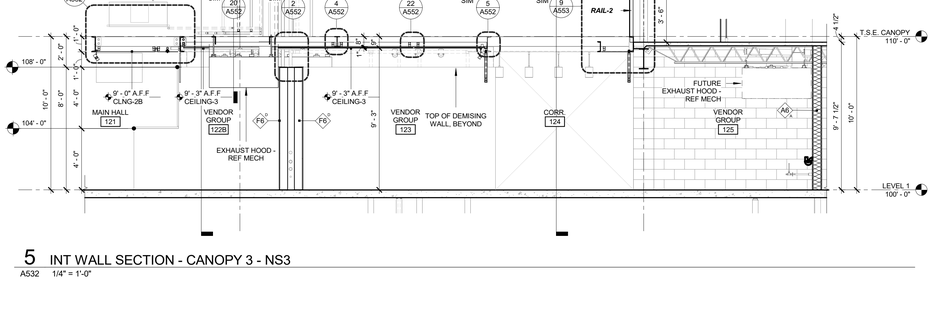
4 INT WALL SECTION - CANOPY 2 - NS3
A532 1/4" = 1'-0"



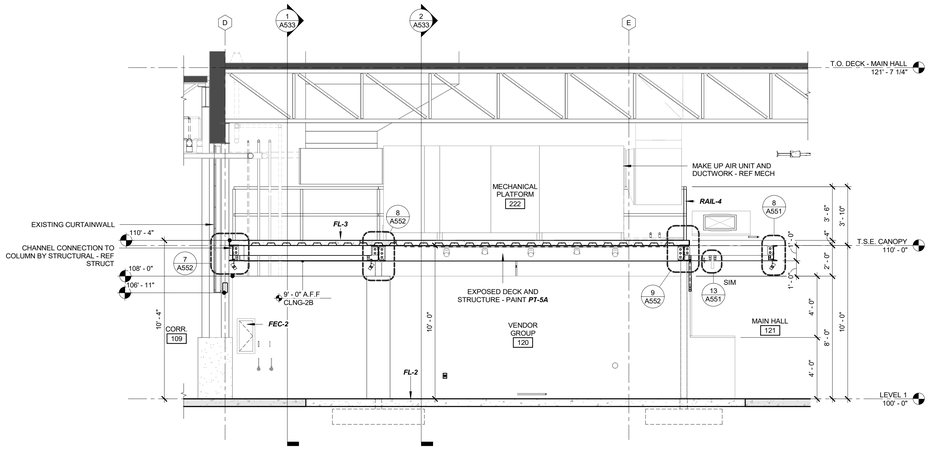
1 INT WALL SECTION - CANOPY 2 - NS1
A532 1/4" = 1'-0"



6 INT WALL SECTION - CANOPY 1 - NS 1
A532 1/4" = 1'-0"



3 INT WALL SECTION - CANOPY 3 - NS2
A532 1/4" = 1'-0"



2 INT WALL SECTION - CANOPY 2 - NS2
A532 1/4" = 1'-0"

5 INT WALL SECTION - CANOPY 3 - NS3
A532 1/4" = 1'-0"

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Print Name Dagmara Larsen

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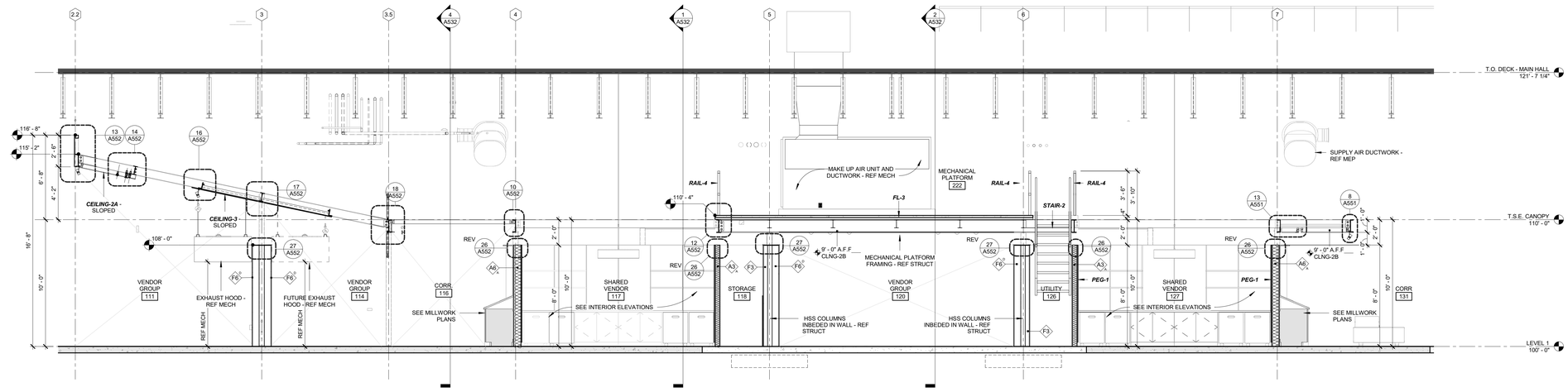
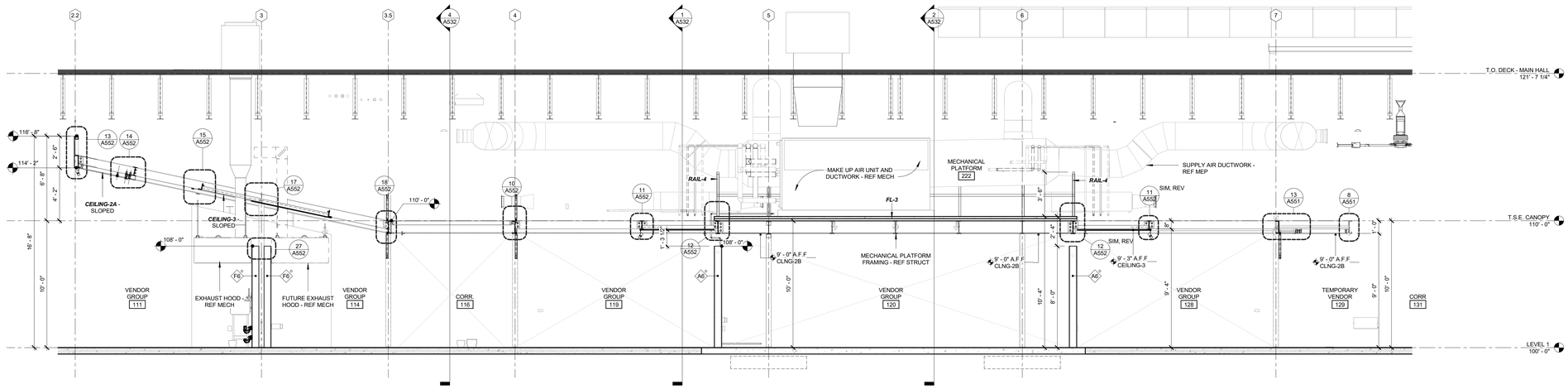
INTERIOR CANOPY SECTIONS

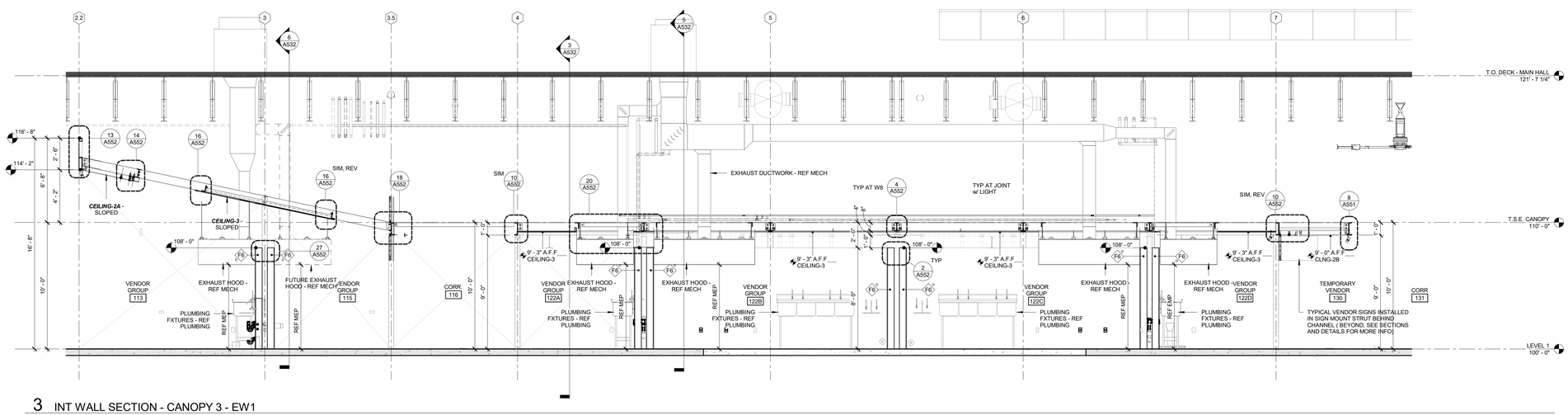
A532



1 INT WALL SECTION - CANOPY 2 - EW1
A533 1/4" = 1'-0"



2 INT WALL SECTION - CANOPY 2 - EW2
A533 1/4" = 1'-0"



3 INT WALL SECTION - CANOPY 3 - EW1
A533 1/4" = 1'-0"

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Print Name Dagmara Larsen

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INTERIOR CANOPY SECTIONS

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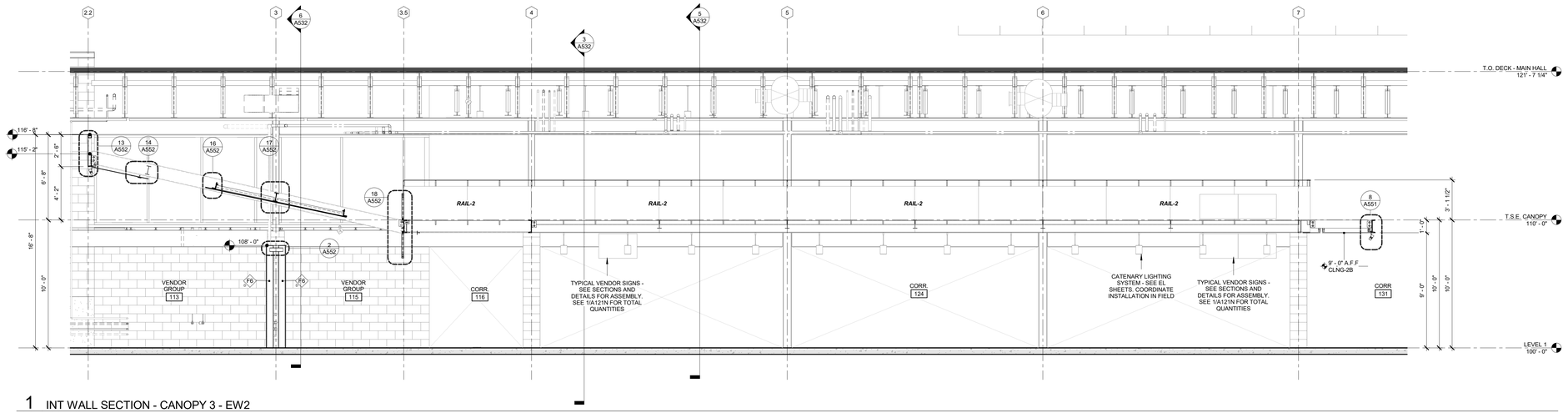
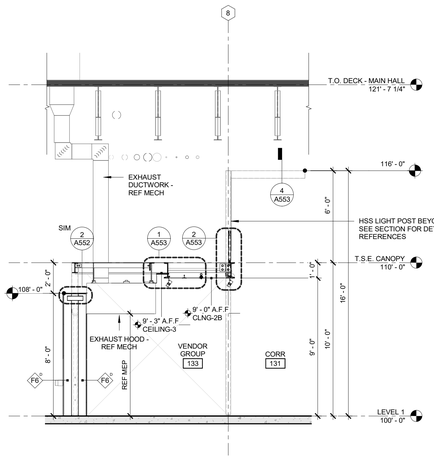
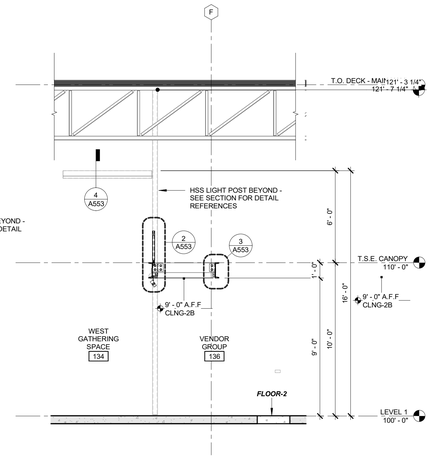


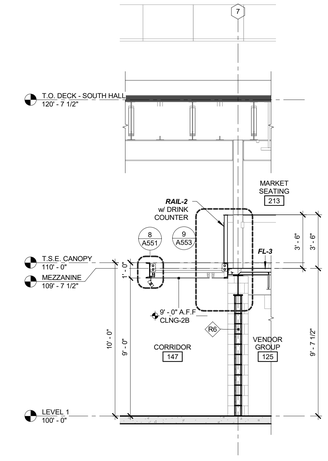
1 INT WALL SECTION - CANOPY 3 - EW2
A534 1/4" = 1'-0"



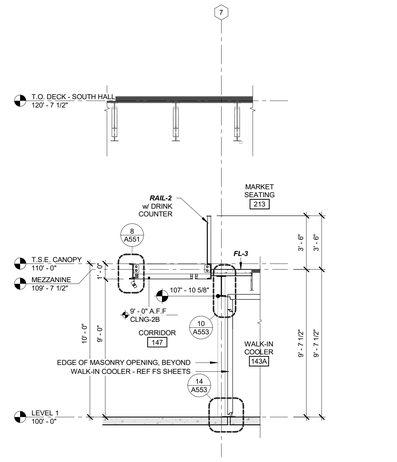
2 INT WALL SECTION - CANOPY 5 - EW
A534 1/4" = 1'-0"



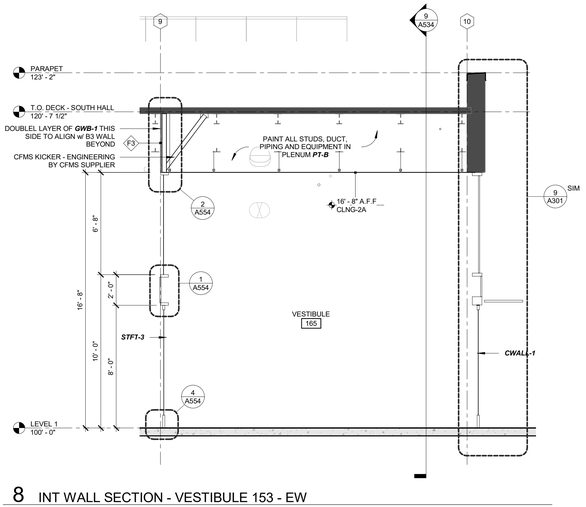
3 INT WALL SECTION - CANOPY 5 - NS
A534 1/4" = 1'-0"



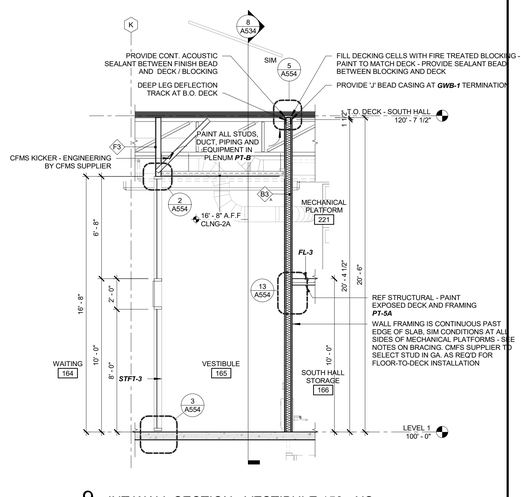
4 INT WALL SECTION - CANOPY 6 - EW
A534 1/4" = 1'-0"



5 INT WALL SECTION - CANOPY 6 - EW2
A534 1/4" = 1'-0"



8 INT WALL SECTION - VESTIBULE 153 - EW
A534 1/4" = 1'-0"



9 INT WALL SECTION - VESTIBULE 153 - NS
A534 1/4" = 1'-0"

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ARCHITECT

Signature

Print Name Dagmara Larsen

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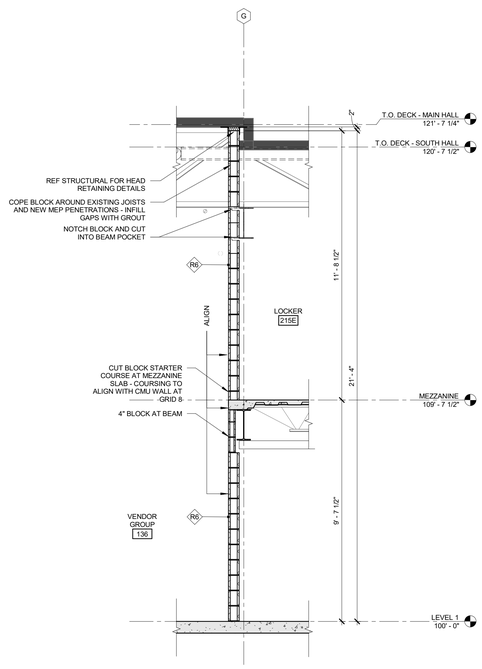
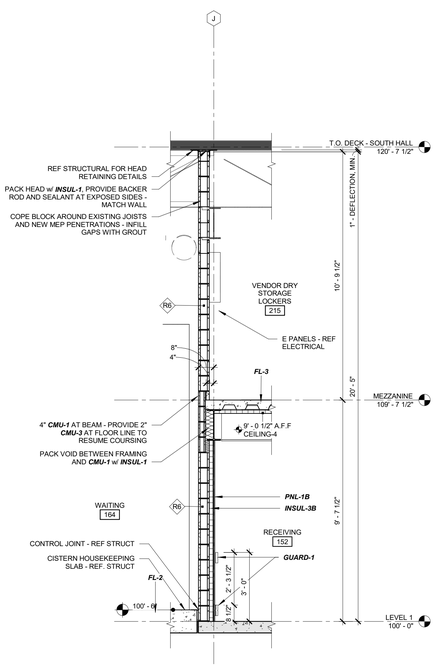
INTERIOR CANOPY SECTIONS

A534



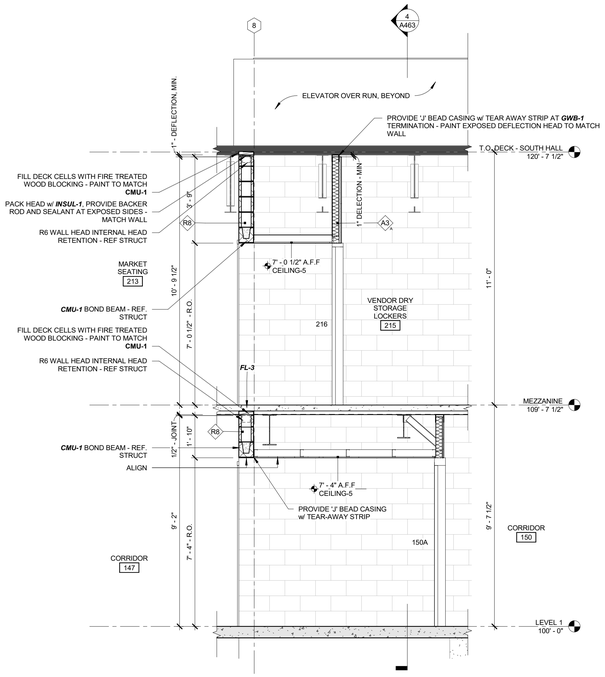
1 INT WALL SECTION - MEZZ - GRID G

A535 3/8" = 1'-0"



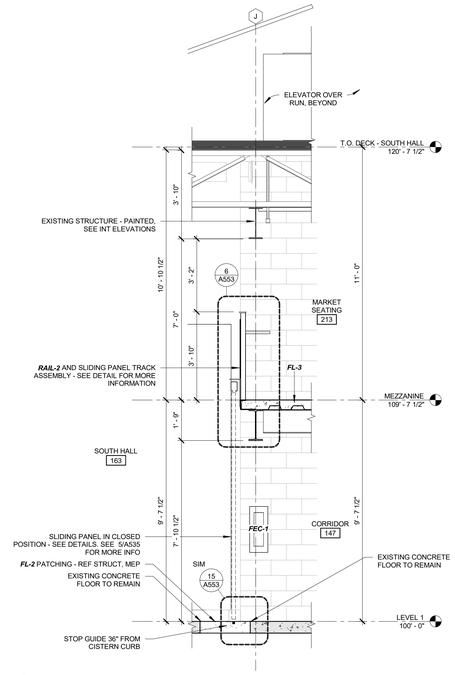
2 INT WALL SECTION - MEZZ - GRID J

A535 3/8" = 1'-0"



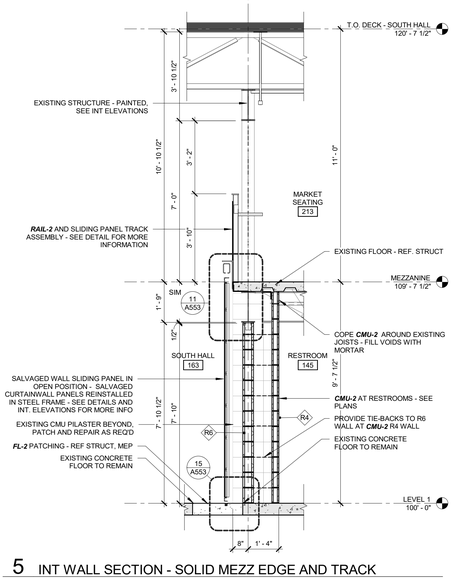
3 INT WALL SECTION - DOOR AT GRID 8

A535 3/8" = 1'-0"



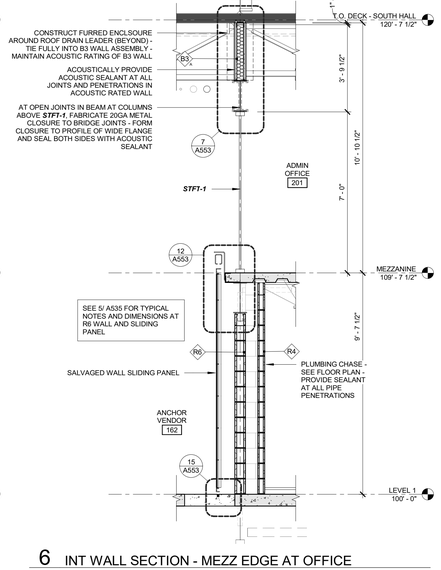
4 INT WALL SECTION - OPEN MEZZ EDGE AND TRACK

A535 3/8" = 1'-0"



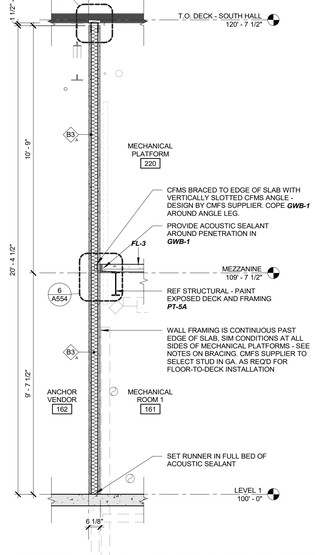
5 INT WALL SECTION - SOLID MEZZ EDGE AND TRACK

A535 3/8" = 1'-0"



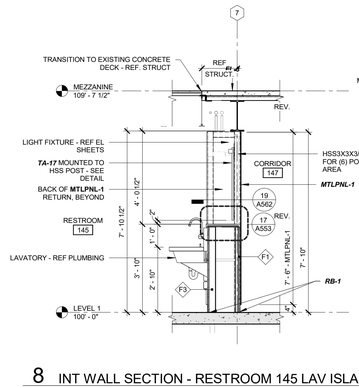
6 INT WALL SECTION - MEZZ EDGE AT OFFICE

A535 3/8" = 1'-0"



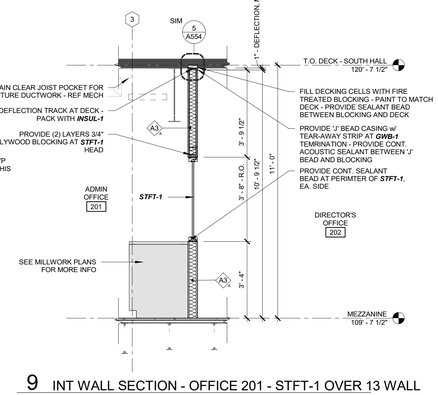
7 INT WALL SECTION - B3 WALL AT MECHANICAL PLATFORM

A535 3/8" = 1'-0"



8 INT WALL SECTION - RESTROOM 145 LAV ISLAND

A535 3/8" = 1'-0"



9 INT WALL SECTION - OFFICE 201 - STFT-1 OVER 13 WALL

A535 3/8" = 1'-0"

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Boelter Premier

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Project No: 2018006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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INTERIOR WALL SECTIONS

A535

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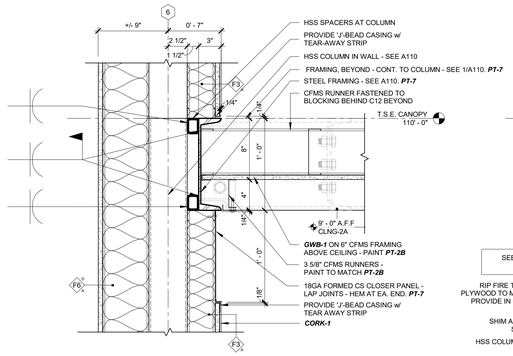
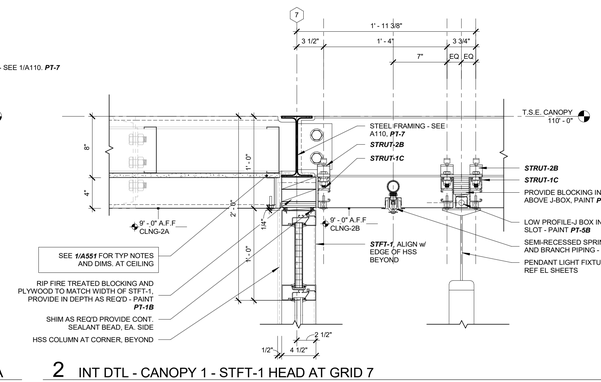
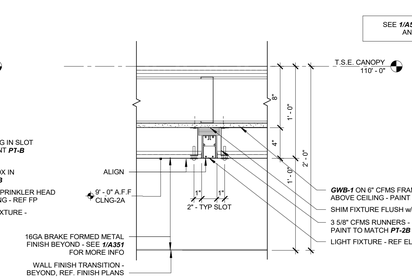


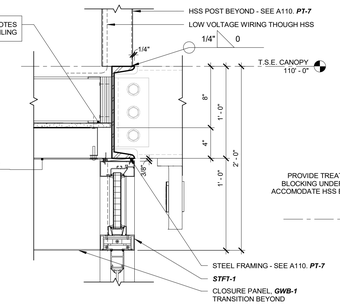
1 INT DETAIL - CANOPY 1 - CONNECTION AT GRID 6 w CEILING 2A
A551 1 1/2" = 1'-0" 2 / A161



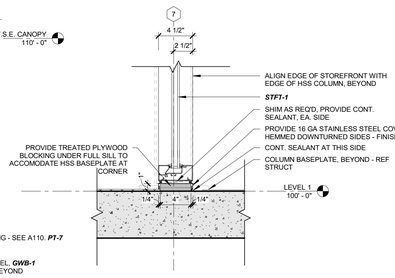
2 INT DTL - CANOPY 1 - STFT-1 HEAD AT GRID 7
A551 1 1/2" = 1'-0" 1 / A121N



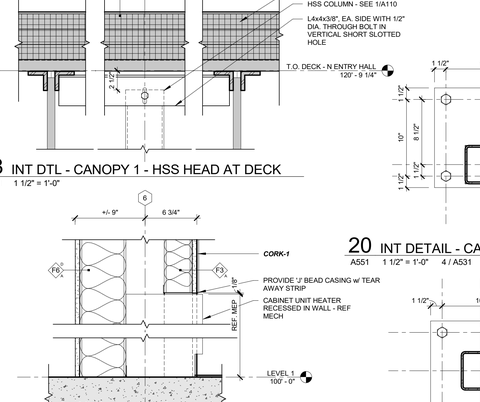
3 INT DTL - VESTIBULE 100 - S1 FIXTURE
A551 1 1/2" = 1'-0" 2 / A161



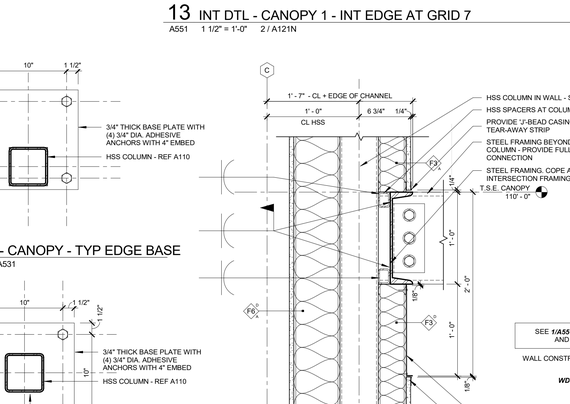
4 INT DTL - CANOPY 1 - STFT-1 HEAD
A551 1 1/2" = 1'-0" 2 / A161



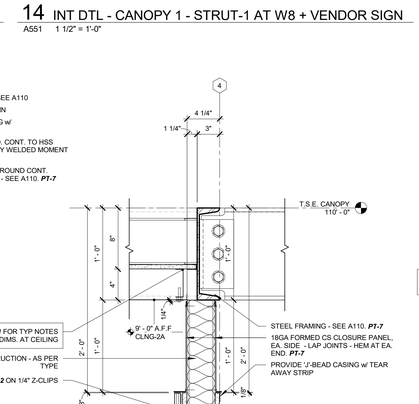
5 INT DTL - CANOPY 1 - TYP STFT-1 SILL
A551 1 1/2" = 1'-0" 1 / A531



6 INT DTL - CANOPY 1 - STFT-1 HEAD AT GRID '6'
A551 1 1/2" = 1'-0" 3 / A531

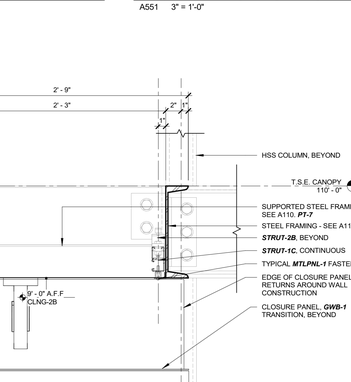


7 INT DTL - CANOPY 1 - W8 AT GRID 7 ABOVE ANTE 101
A551 1 1/2" = 1'-0" 3 / A531

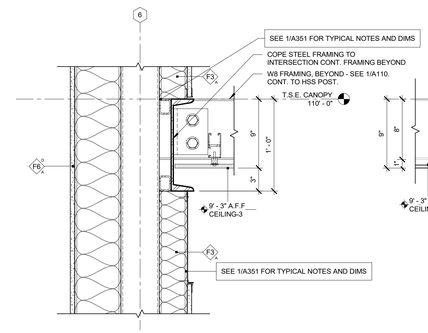


8 INT DTL - CANOPY 1 - TYP C12 EDGE WITH LIGHT
A551 1 1/2" = 1'-0" 2 / A121N

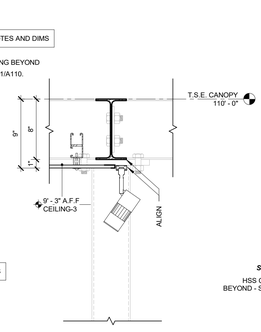
9 INT DTL - VESTIBULE 100 - THRESHOLD
A551 1 1/2" = 1'-0" 2 / A531



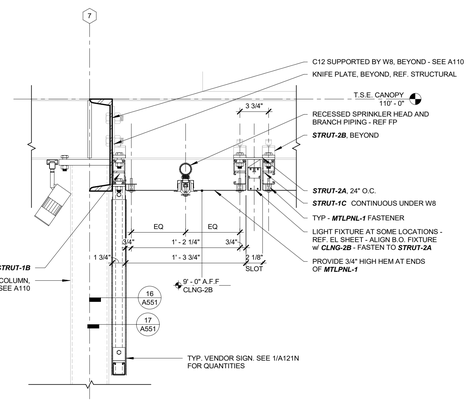
10 INT DTL - ANTE 101 - STFT-1 THRESHOLD
A551 1 1/2" = 1'-0" 3 / A531



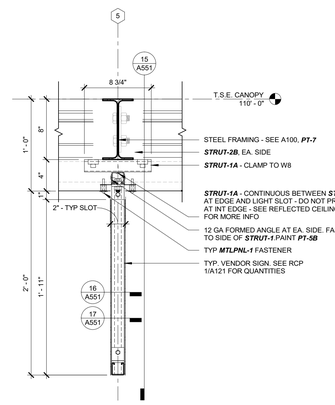
11 INT DTL - CANOPY 1 - C12 AND W8 AT GRID 6
A551 1 1/2" = 1'-0" 4 / A531



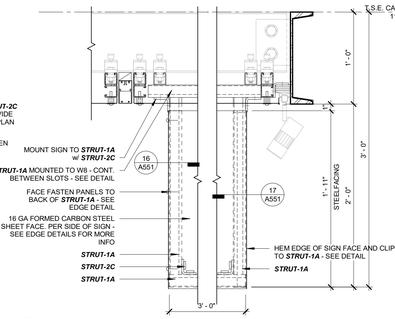
12 INT DTL - CANOPY 1 - FIXTURE AT W8
A551 1 1/2" = 1'-0" 4 / A531



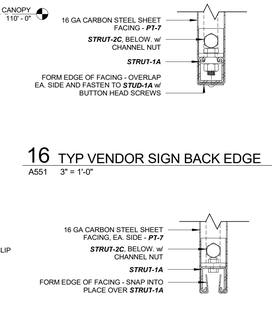
13 INT DTL - CANOPY 1 - INT EDGE AT GRID 7
A551 1 1/2" = 1'-0" 2 / A121N



14 INT DTL - CANOPY 1 - STRUT-1 AT W8 + VENDOR SIGN
A551 1 1/2" = 1'-0"

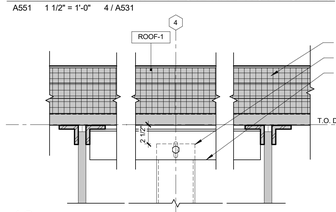


15 INT DTL - VENDOR SIGN ELEVATION
A551 1 1/2" = 1'-0"

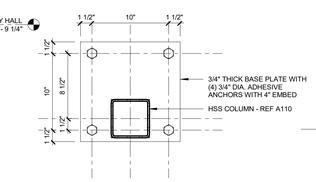


16 TYP VENDOR SIGN BACK EDGE
A551 3" = 1'-0"

17 TYP VENDOR SIGN FRONT EDGE
A551 3" = 1'-0"



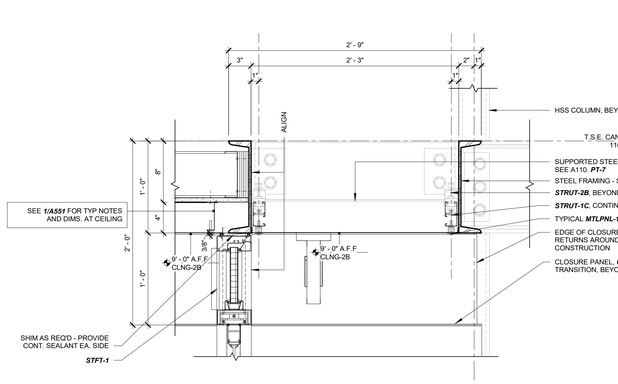
18 INT DTL - CANOPY 1 - HSS HEAD AT DECK
A551 1 1/2" = 1'-0"



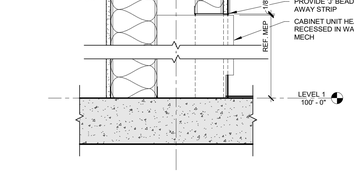
20 INT DETAIL - CANOPY - TYP EDGE BASE
A551 1 1/2" = 1'-0" 4 / A531

21 INT DETAIL - CANOPY - TYP INT BASE
A551 1 1/2" = 1'-0" 4 / A531

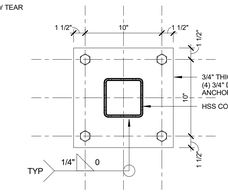
22 INT DTL - CANOPY 1 - DEMISING WALL GRID 'C'
A551 1 1/2" = 1'-0" 5 / A531



23 INT DTL - CANOPY 1 - VESTIBULE 108 T.O. WALL
A551 1 1/2" = 1'-0" 4 / A161



19 INT DTL - VESTIBULE 100 - CUH IN WALL
A551 1 1/2" = 1'-0" 1 / A501



24 INT DTL - VESTIBULE 137 - STFT-1 HEAD
A551 1 1/2" = 1'-0" 6 / A161

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

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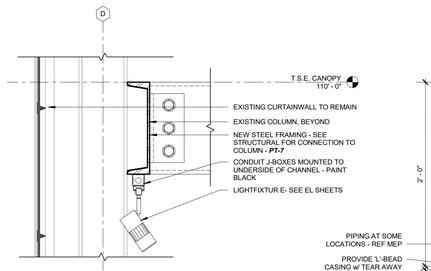
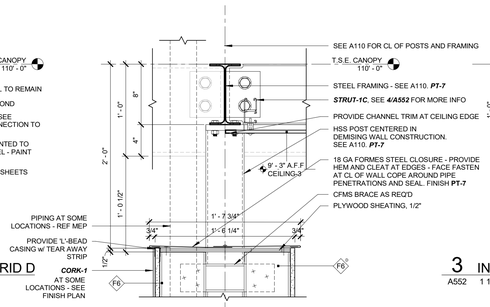
INTERIOR DETAILS

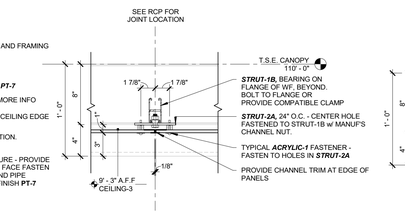
A551



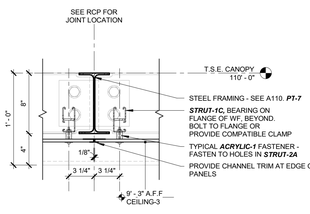
1 INT DTL - CANOPY 2 - CONNECTION AT GRID D
A552 1 1/2" = 1'-0" 1 / A532



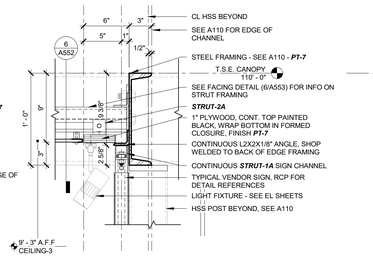
2 INT DTL - CANOPY 2 - TYP. T.O. DEMISING WALL
A552 1 1/2" = 1'-0" 6 / A501



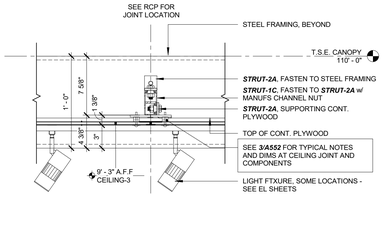
3 INT DTL - CANOPY 2 - CLNG 3 TYP JOINT
A552 1 1/2" = 1'-0" 1 / A121N



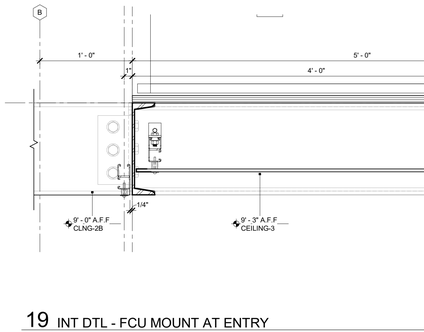
4 INT DTL - CANOPY 2 - W8 CLNG-3 JOINT
A552 1 1/2" = 1'-0" 1 / A121N



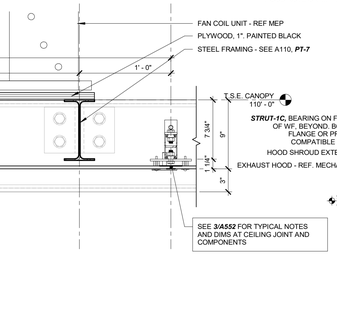
5 INT DTL - CANOPY 3 - LIGHT AND SIGN AT EDGE
A552 1 1/2" = 1'-0" 4 / A121N



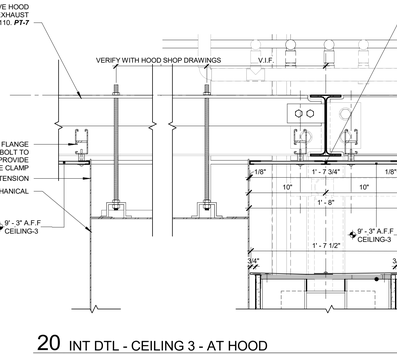
6 INT DTL - CANOPY 3 - CLNG-3 JOINT FACING EDGE
A552 1 1/2" = 1'-0"



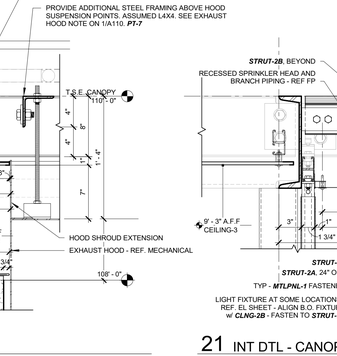
7 INT DETAIL - CANOPY 2 - CEILING 3 AT GRID D
A552 1 1/2" = 1'-0" 2 / A532



8 INT DTL - CANOPY 2 - CEILING 3 @ W12X58
A552 1 1/2" = 1'-0" 2 / A532



9 INT DTL - CANOPY 2 - MECH PLATFORM AT CANOPY
A552 1 1/2" = 1'-0" 2 / A532



10 INT DTL - CANOPY - GRID 4
A552 1 1/2" = 1'-0"

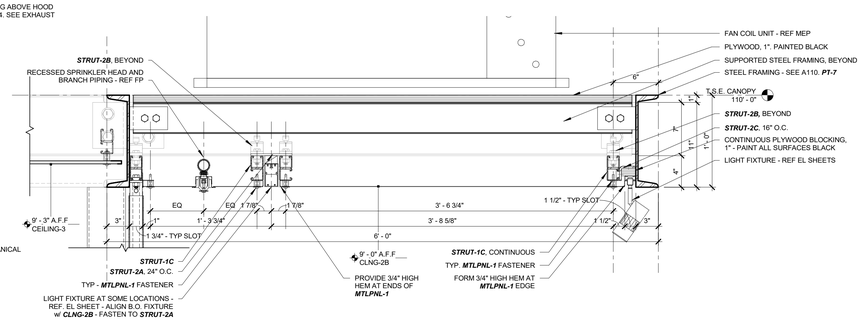
11 INT DTL - CANOPY 2 - CLEING-3 EDGE AT BEAM
A552 1 1/2" = 1'-0" 2 / A533

12 INT DTL - CANOPY 2 - MECH PLATFORM RAIL-3
A552 1 1/2" = 1'-0" 1 / A533

13 INT DTL - CANOPY 3 - END OF SLOPE
A552 1 1/2" = 1'-0" 1 / A533

19 INT DTL - FCU MOUNT AT ENTRY
A552 1 1/2" = 1'-0"

20 INT DTL - CEILING 3 - AT HOOD
A552 1 1/2" = 1'-0" 5 / A532



21 INT DTL - CANOPY 2 - FCU PLATFORM AT EDGE
A552 1 1/2" = 1'-0" 3 / A121N

22 INT DTL - FIXTURE AT CEILING 3
A552 1 1/2" = 1'-0"

23 INT DTIL - TRACK BELOW W8
A552 1 1/2" = 1'-0"

24 INT DTL - CANOPY 3 - TYP DEMISING WALL LOW CAP
A552 1 1/2" = 1'-0" 1 / A101N

25 INT DTL - TYP DEMISING CAP - A6
A552 1 1/2" = 1'-0" 1 / A101N

26 INT DTL - PEG-1 CAP
A552 1 1/2" = 1'-0"

27 INT DTL - CANOPY 2 - DBL DEMISING CAP
A552 1 1/2" = 1'-0" 1 / A533

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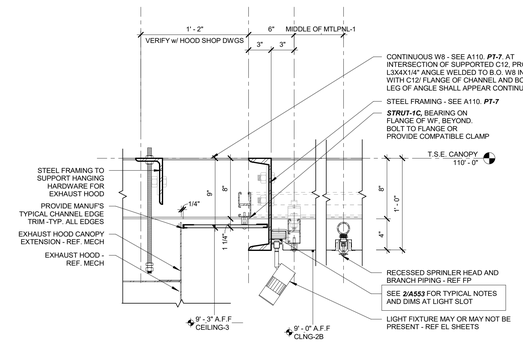
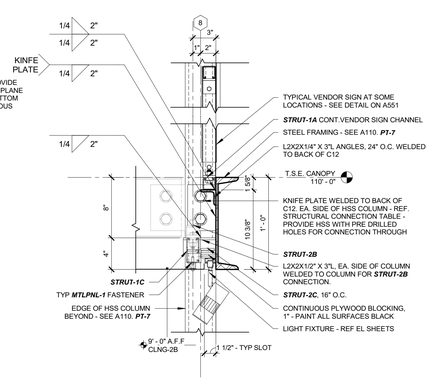
INTERIOR DETAILS

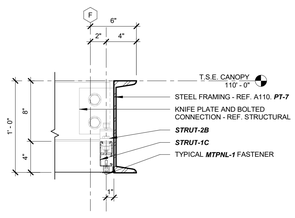
A552



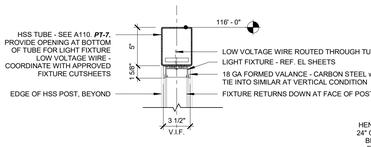
1 INT DTL - CANOPY 4 - CEILING 2 CEILING 3 OFFSET
A553 1 1/2" = 1'-0" 2 / A534



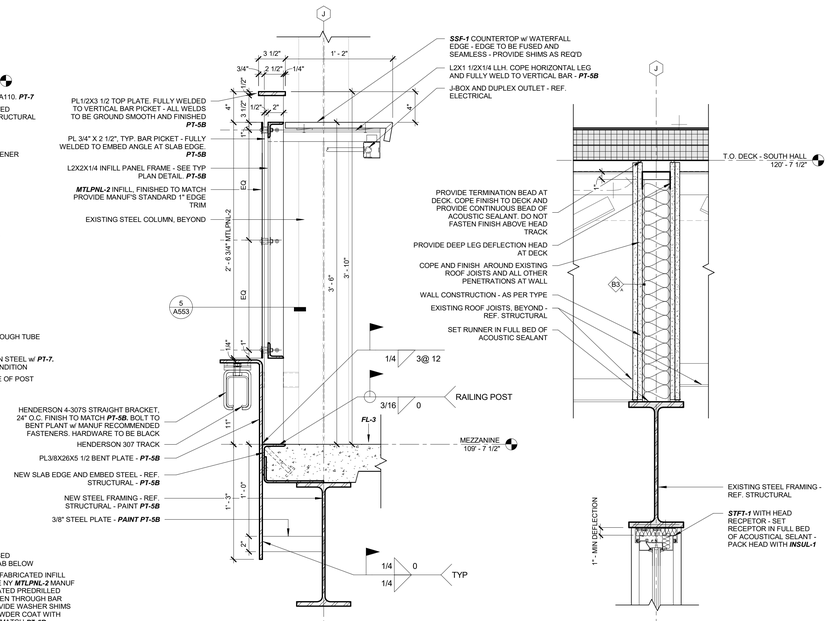
2 INT DTL - CANOPY 4 - PERIMETER CHANNEL w LIGHT
A553 1 1/2" = 1'-0" 2 / A534



3 INT DTL - CANOPY 4 - INTERIOR CHANNEL
A553 1 1/2" = 1'-0" 3 / A534

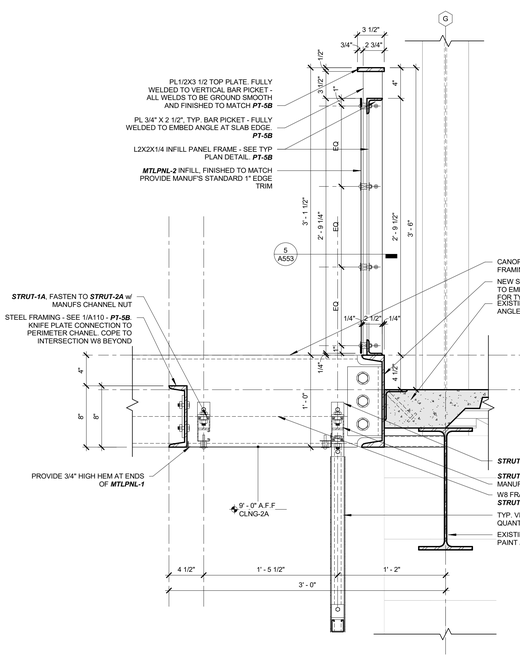


4 INT DTL - CANOPY 4 - POST LIGHT
A553 1 1/2" = 1'-0" 1 / A122N

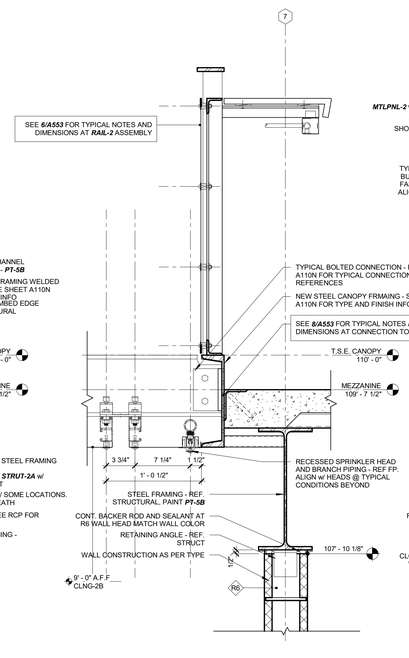


6 INT DTL - TRACK RAIL-2 AND OPENING
A553 1 1/2" = 1'-0" 12 / A464

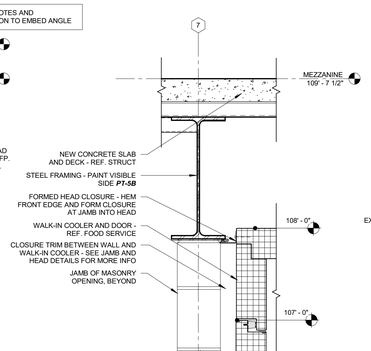
7 INT DTL - STFT-1 HEAD AT OFFICE
A553 1 1/2" = 1'-0" 1 / A122S



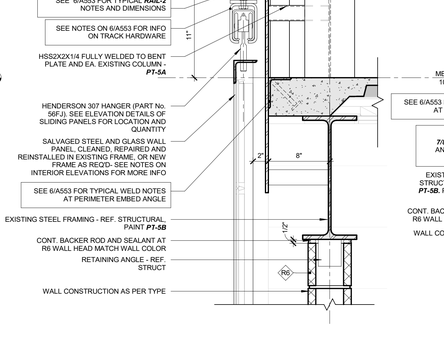
8 INT DTL - CANOPY 2 - RAIL-2 AT CORR 124 AWNING
A553 1 1/2" = 1'-0" 3 / A532



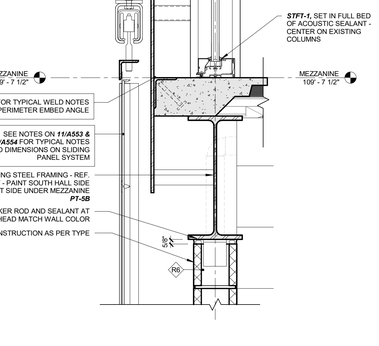
9 INT DTL - NEW MEZZ EDGE AT GRID 7
A553 1 1/2" = 1'-0" 5 / A532



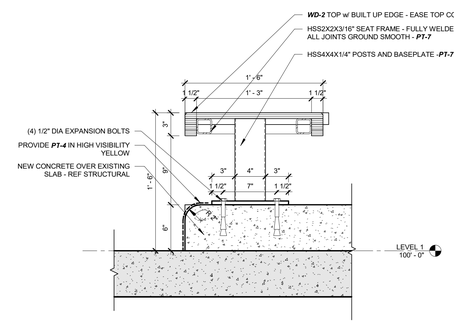
10 INT DTL - VENDOR WALK-IN HEAD
A553 1 1/2" = 1'-0" 5 / A534



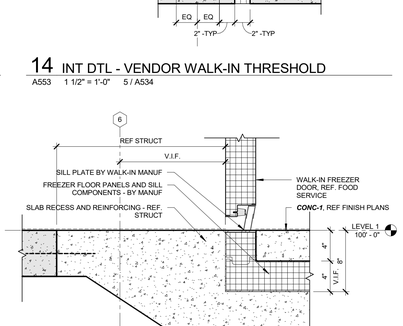
11 INT DTL - SLIDING PANEL HEAD
A553 1 1/2" = 1'-0" 5 / A535



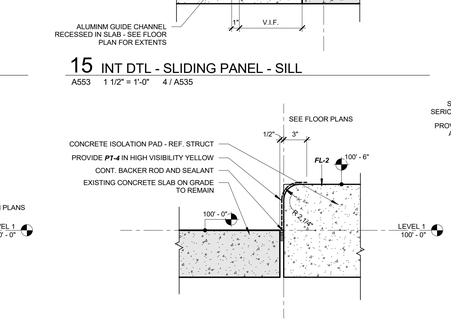
12 INT DTL - STFT-1 SILL AT MEZZ EDGE IN OFFICE
A553 1 1/2" = 1'-0" 6 / A532



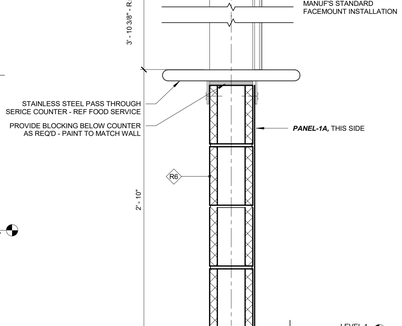
13 INT DTL - TOP OF RESTROOM 145 SCREEN
A553 1 1/2" = 1'-0" 22 / A562



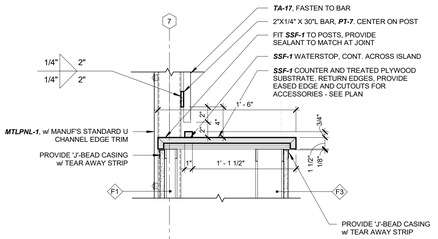
14 INT DTL - VENDOR WALK-IN THRESHOLD
A553 1 1/2" = 1'-0" 5 / A534



15 INT DTL - SLIDING PANEL - SILL
A553 1 1/2" = 1'-0" 4 / A535



16 INT DTL - CURB BENCH
A553 1 1/2" = 1'-0" 1 / A101S



17 INT DTL - RESTROOM 145 - LAV COUNTER
A553 1 1/2" = 1'-0" 8 / A535

18 INT DTL - FREEZER THRESHOLD
A553 1 1/2" = 1'-0" 1 / A101S

19 INT DTL - HOUSE KEEPING PAD
A553 1 1/2" = 1'-0" 1 / A101S

20 INT DTL - MARKET KITCHEN 142 - COUNTER
A553 1 1/2" = 1'-0" 1 / A101S

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Bloomington, MN 55425 | 651.379.9121

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999 Fourier Dr. Suite 201.
Madison, WI 53717 | 608. 826. 0532

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1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

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IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

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Mazzetti, Inc.
1999 Broadway, Suite 2205.
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Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace.
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

DAGMARA K. LARSEN 13278-5 MINNEAPOLIS MN ARCHITECT WISCONSIN

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

BID DOCUMENTS

ISSUE / REVISION

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1	2023.06.09	BID DOCUMENTS

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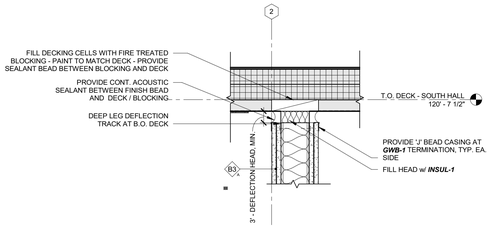
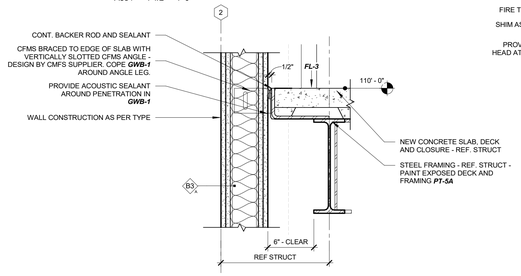
INTERIOR DETAILS

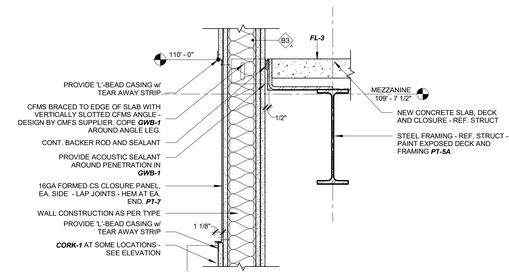
A553



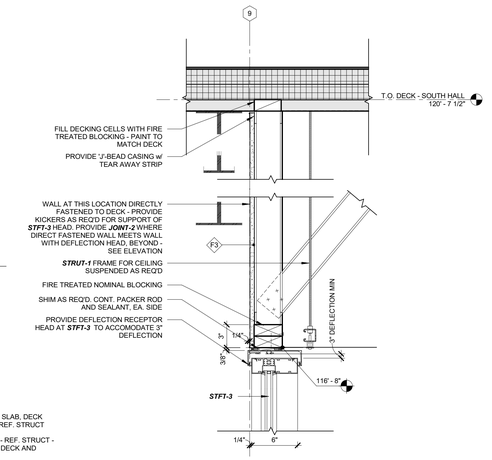
5 INT DTL - B3 HEAD AT DECK
A554 1 1/2" = 1'-0"



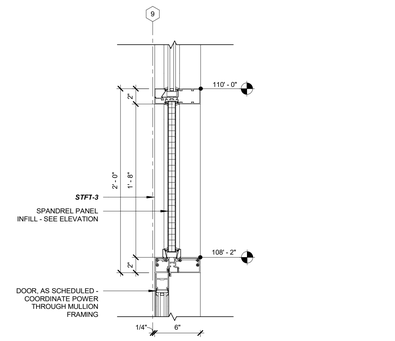
6 INT DETAIL - B3 SLIP MID-BRACE
A554 1 1/2" = 1'-0"



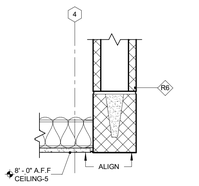
13 INT DTIL - B3 CLOSURE PANEL
A554 1 1/2" = 1'-0"



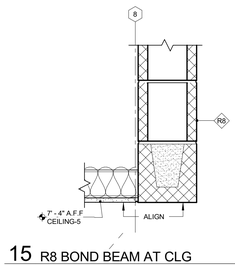
2 INT DTL - STFT-3 HEAD
A554 1 1/2" = 1'-0"



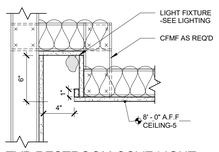
1 INT DTL - STFT-3 TRANSOM
A554 1 1/2" = 1'-0"



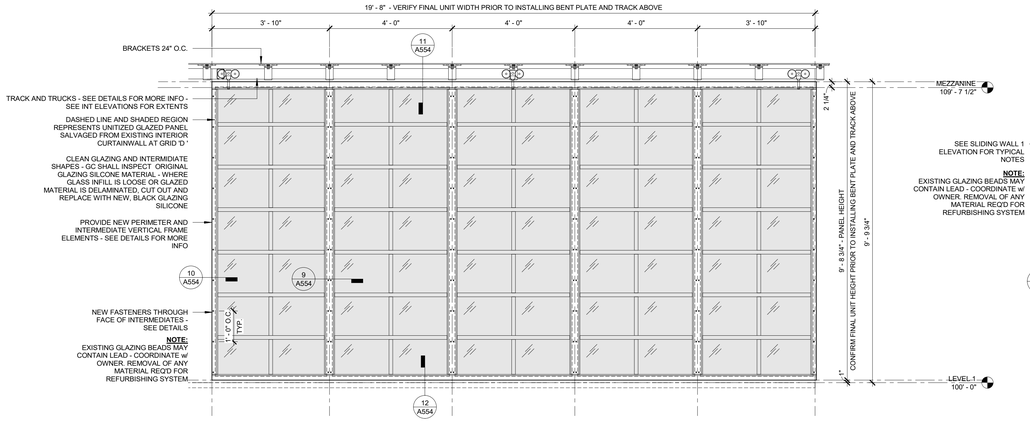
16 R6 BOND BEAM AT CLG
A554 1 1/2" = 1'-0"



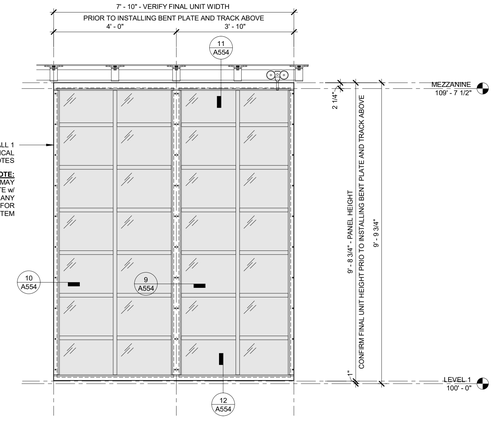
15 R8 BOND BEAM AT CLG
A554 1 1/2" = 1'-0"



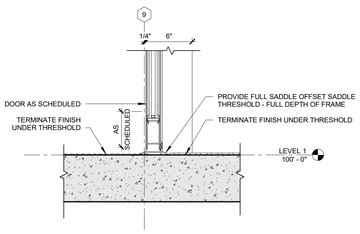
14 TYP RESTROOM COVE LIGHT
A554 1 1/2" = 1'-0"



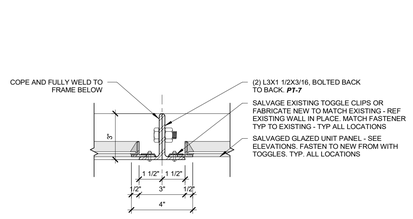
7 INT ELEVATION - SLIDING WALL 1
A554 1/2" = 1'-0"



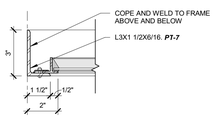
8 INT ELEVATION - SLIDING WALL 2
A554 1/2" = 1'-0"



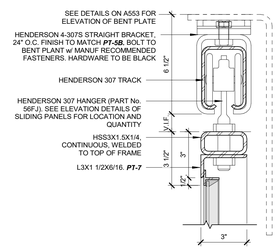
4 INT DTL - STFT-3 THRESHOLD
A554 1 1/2" = 1'-0"



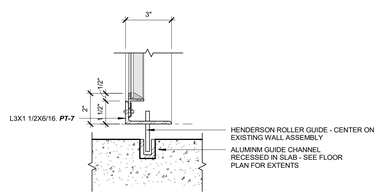
9 INT DTL - SLIDING PANEL - INTERMEDIATE
A554 3" = 1'-0"



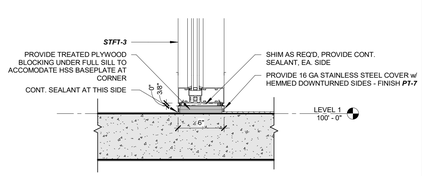
10 INT DTL - SLIDING PANEL SIDE
A554 3" = 1'-0"



11 INT DTL - SLIDING PANEL - TOP
A554 3" = 1'-0"



12 INT DTL - SLIDING PNL - BOTTOM
A554 3" = 1'-0"



3 INT DTL - STFT-3
A554 1 1/2" = 1'-0"

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Structural Engineering, Fire Protection Engineering, Technology and AV
IMEG Corporation, Inc.
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Madison, WI 53562

Lighting Design
Mazzetti, Inc.
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Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 20190606.00

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 License No 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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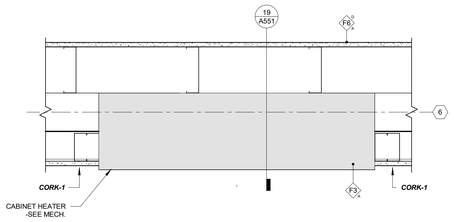
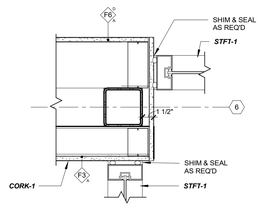
INTERIOR DETAILS

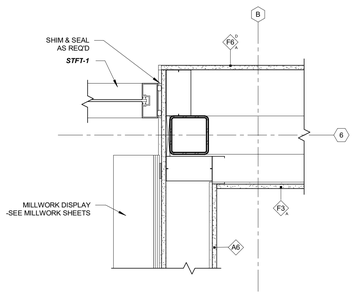
A554



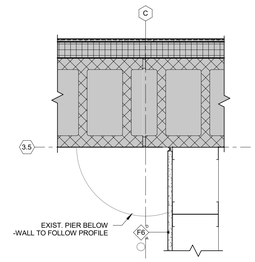
1 INT PLAN DTL - VESTIBULE 100 - CUH
A561 1 1/2" = 1'-0"



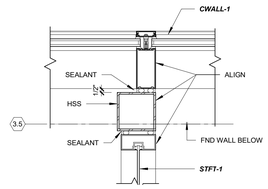
2 INT PLAN DTL - VESTIBULE 100 - STFT-1 AT DEMISING WALL
A561 1 1/2" = 1'-0"



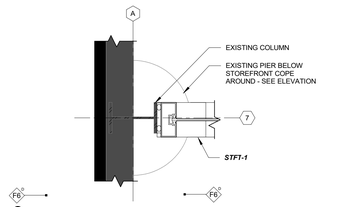
3 INT PLAN DTL - ANTE 101 - ENTRY WALL AT GRID 6
A561 1 1/2" = 1'-0"



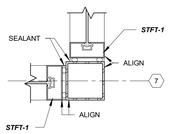
4 INT PLAN DTL - VESTIBULE 108 - DEMISING WALL - GRID C AT EXT WALL
A561 1 1/2" = 1'-0"



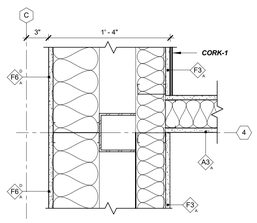
5 INT PLAN DTL - VESTIBULE 108 - STFT-1 AT CWALL-1
A561 1 1/2" = 1'-0"



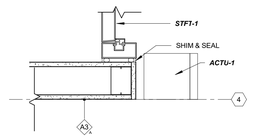
6 INT PLAN DTL - VETSIBULE 100 - STFT-1 AT EXT WALL
A561 1 1/2" = 1'-0"



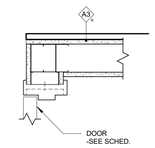
7 INT PLAN DTL - VESTIBULE 100 - STFT-1 CORNER
A561 1 1/2" = 1'-0"



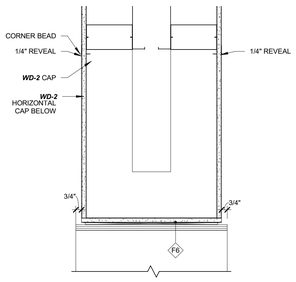
8 INT PLAN DTL - VESTIBULE 108 - HSS AT GRID 4
A561 1 1/2" = 1'-0"



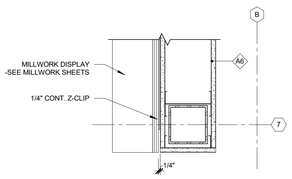
9 INT PLAN DTL - STFT-1 AT TENANT WALL
A561 1 1/2" = 1'-0"



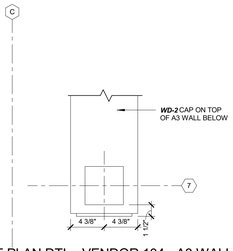
10 INT PLAN DTL - STORAGE ROOM DOOR UNDER GLASS WALL
A561 1 1/2" = 1'-0"



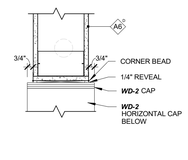
11 INT PLAN DTL - TYP F6 WALL CAP
A561 1 1/2" = 1'-0"



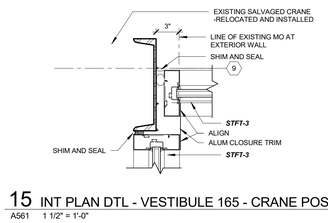
12 INT PLAN DTL - ANTE 101 - DEMISING WALL CAP WITH SIGN
A561 1 1/2" = 1'-0"



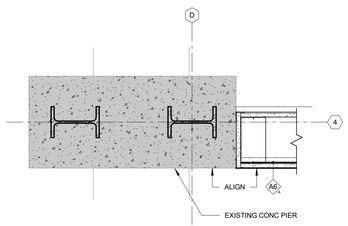
13 INT PLAN DTL - VENDOR 104 - A3 WALL CAP
A561 1 1/2" = 1'-0"



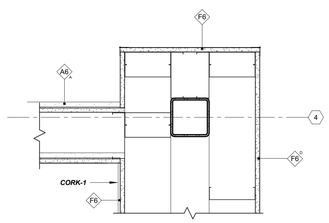
14 INT PLAN DTL - TYP. A6 WALL CAP
A561 1 1/2" = 1'-0"



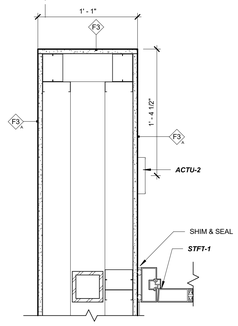
15 INT PLAN DTL - VESTIBULE 165 - CRANE POST
A561 1 1/2" = 1'-0"



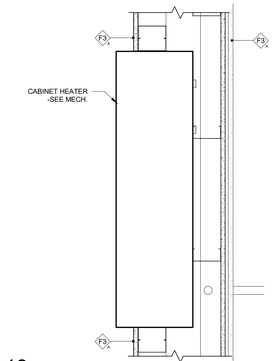
16 INT PLAN DTL - A6 AT EXISTING CONCRETE PIER
A561 1 1/2" = 1'-0"



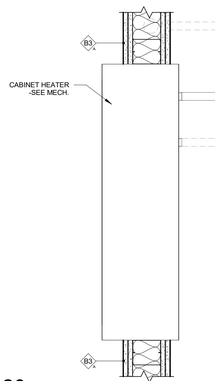
17 INT PLAN DTL - WALL CAP AT TRASH WALLS
A561 1 1/2" = 1'-0"



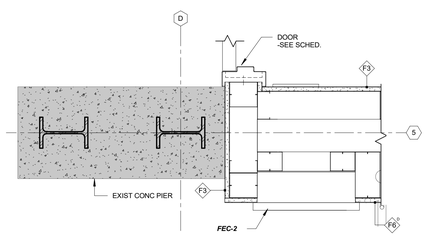
18 INT PLAN DTL - VESTIBULE 137 - SIDE WALL END
A561 1 1/2" = 1'-0"



19 INT PLAN DTL - VESTIBULE 137 - CUH IN WALL
A561 1 1/2" = 1'-0"



20 INT PLAN DTL - VESTIBULE 165 - CUH IN B3 WALL
A561 1 1/2" = 1'-0"



21 INT PLAN DTL - F3 WALLS AT EXISTING CONCRETE PIERS
A561 1 1/2" = 1'-0"

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Architecture and Interiors

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510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien
2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

Civil Engineer

Vierbicher
999 Fourier Dr, Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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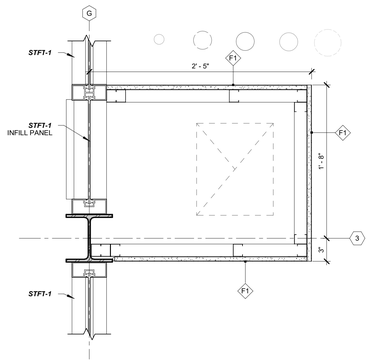
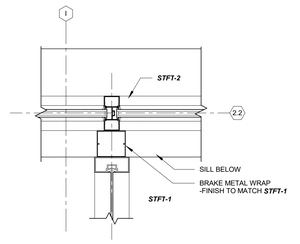
INTERIOR PLAN DETAILS

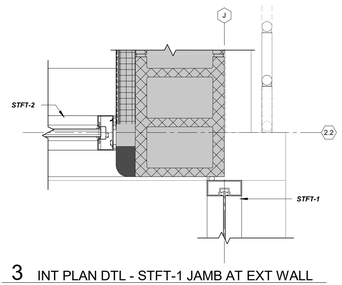
A561



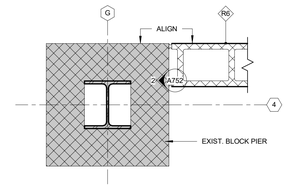
1 INT PLAN DTL - STFT-1 AT CHASE
A562 1 1/2" = 1'-0"



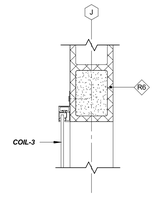
2 INT PLAN DTL - OFFICE 202 - STFT-1 JAMB AT
A562 1 1/2" = 1'-0"



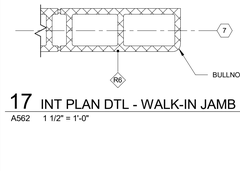
3 INT PLAN DTL - STFT-1 JAMB AT EXT WALL
A562 1 1/2" = 1'-0"



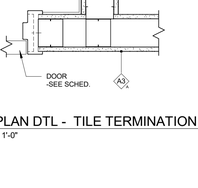
4 INT PLAN DTL - R6 AT EXISTING COLUMN WRAP
A562 1 1/2" = 1'-0"



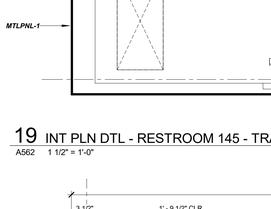
5 INT PLAN DTL - COIL-3 SHUTTER AT KITCHEN
A562 1 1/2" = 1'-0"



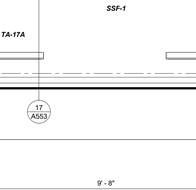
6 INT PLAN DTL - STFT-1 CORNER OFFICES
A562 1 1/2" = 1'-0"



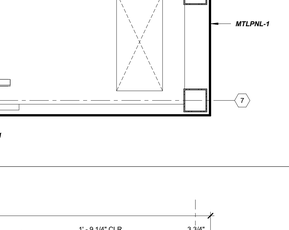
7 INT PLAN DTL - STFT-1 AND WALL AT OFFICE
A562 1 1/2" = 1'-0"



8 INT PLAN DTL - GRID 8 & GRID G
A562 1 1/2" = 1'-0"

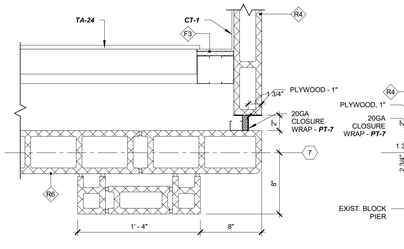


9 INT PLAN DTL - STFT-1 AT WALL CORNER
A562 1 1/2" = 1'-0"

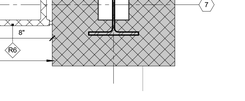


10 INT PLAN DTL - PLUMBING CHASE AT R4 WALL
A562 1 1/2" = 1'-0"

11 INT PLAN DTL - CORK AT SHELF STANDARDS
A562 1 1/2" = 1'-0"



12 INT PLAN DTL - OFFICE 202 - STFT-1 INTERSECTION
A562 1 1/2" = 1'-0"



13 INT PLAN DTL - EXISTING COLUMN IN R6 WALL
A562 1 1/2" = 1'-0"

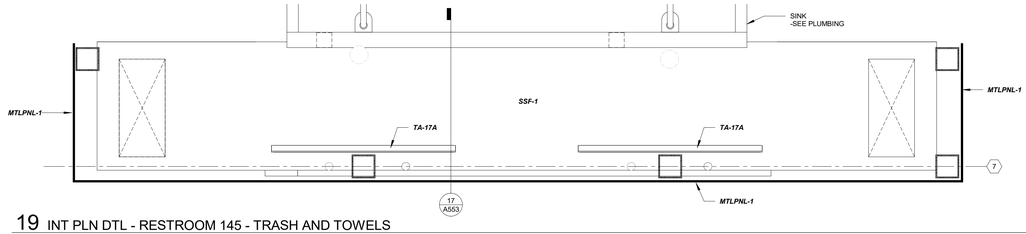
14 INT PLAN DTL - RAIL-2 - OUTSIDE CORNER
A562 1 1/2" = 1'-0"

15 INT PLAN DTL - RAIL-2 - END
A562 1 1/2" = 1'-0"

16 INT PLAN DTL - RAIL-2 - TYP RAIL
A562 1 1/2" = 1'-0"

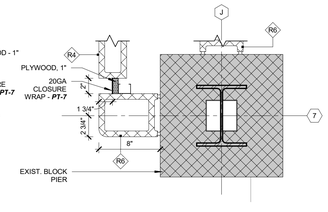
17 INT PLAN DTL - WALK-IN JAMB
A562 1 1/2" = 1'-0"

18 INT PLAN DTL - TILE TERMINATION AT CORNER
A562 1 1/2" = 1'-0"

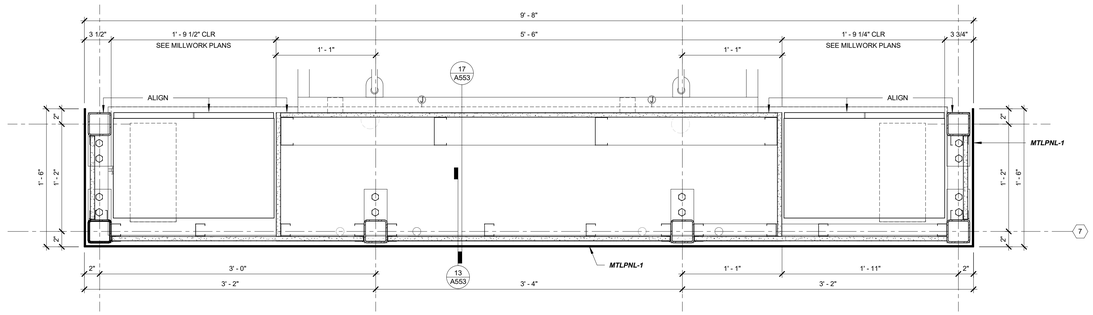


19 INT PLN DTL - RESTROOM 145 - TRASH AND TOWELS
A562 1 1/2" = 1'-0"

20 INT PLAN DTL - FALSE PIER
A562 1 1/2" = 1'-0"



21 INT PLAN DTL - CMU-1 / CMU-2 TRANSITION
A562 1 1/2" = 1'-0"



22 INT PLN DTL - RESTROOM SINK BUILDOUT
A562 1 1/2" = 1'-0"

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Vierbicher
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Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 2018006.00

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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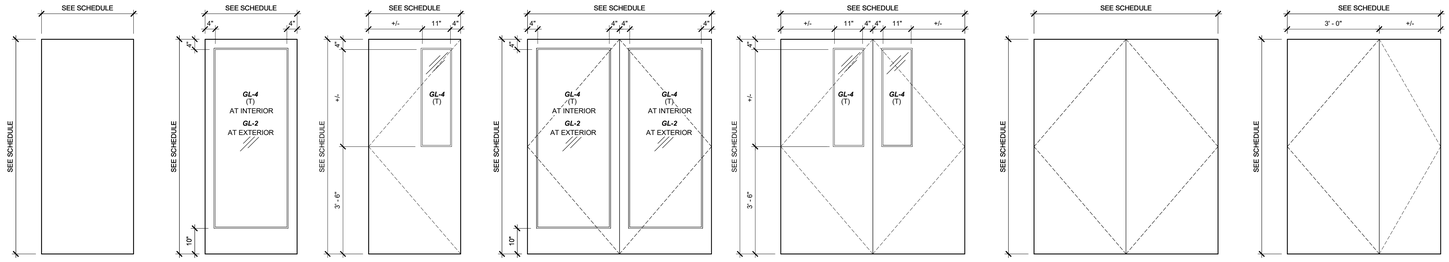
INTERIOR PLAN DETAILS

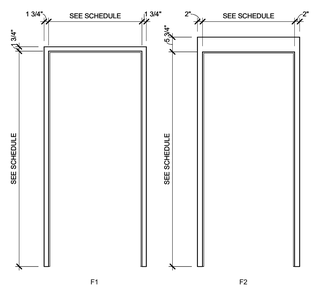
A562



SEE SCHEDULE FOR DOOR MATERIAL AND GLASS TYPE

1 DOOR TYPES

A601 1/2" = 1'-0"



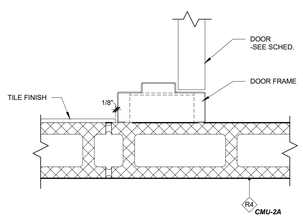
2 FRAME TYPES

A601 1/2" = 1'-0"

DOOR SCHEDULE										
	DOOR					FRAME				
DOOR NO	WIDTH	HEIGHT	THK	TYPE	MAT'L	HEAD	JAMB	TYPE	MAT'L	HDWR
100A	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	16/A653	SF / CW	AL	03
100B	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	16/A653	SF / CW	AL	01
100C	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	4/A551	14/A601	SF / CW	AL	09
100D	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	4/A551	14/A601	SF / CW	AL	07
102A	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	4/A551	14/A601	SF / CW	AL	14
102B	3' - 5"	8' - 0"	1 3/4"	D2	AL/GL	4/A653	14/A653	SF / CW	AL	06
102C	3' - 8"	8' - 0"	1 3/4"	D2	AL/GL	4/A653	14/A653	SF / CW	AL	06
108A	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	16/A653	SF / CW	AL	02
108B	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	4/A551	9/A561	SF / CW	AL	08
110A	16' - 0"	16' - 0"	2 1/8"	OVHD-1		14/A352	15/A352			34
110B	16' - 0"	16' - 0"	2 1/8"	OVHD-1		14/A352	15/A352			34
111	3' - 6"	8' - 0"	1 3/4"	D2	AL/GL	4/A653	14/A653	SF / CW	AL	05
112	16' - 0"	16' - 0"	2 1/8"	OVHD-1		13/A352	15/A352			34
113	3' - 6 1/2"	8' - 0"	1 3/4"	D2	AL/GL	4/A653	14/A653	SF / CW	AL	05
118	3' - 0"	6' - 8"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	22
126	3' - 0"	6' - 8"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
137A	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	11/351	SF / CW	AL	02
137B	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	11/A351	SF / CW	AL	03
137C	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	23/A551	14/A601	SF / CW	AL	08
137D	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	23/A551	14/A601	SF / CW	AL	09
140	3' - 6"	7' - 9"	1 3/4"	D2	AL/GL	24/A653	-	SF / CW	AL	05
142A	6' - 0"	7' - 0"	1 3/4"	D3A	HM	10/A601	12/A601	F2	HM	16
142B	3' - 0"	7' - 0"	1 3/4"	D1	HM	10/A601	9/A601	F1	HM	28
144	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F2	HM	24
145A	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	3/A601	F1	HM	26
145B	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
145C	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	7/A601	F1	HM	25
145D	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	7/A601	F1	HM	25
145E	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
145F	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	3/A601	F1	HM	26
149	3' - 0"	7' - 0"	1 3/4"	D1	HM	10/A601	9/A601	F1	HM	32
150.1	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	32
150.2	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	3/A601	F1	HM	32
150A	4' - 0"	7' - 0"	1 3/4"	D2A	HM	5/A601	4A/601	F2	HM	17
150B	4' - 0"	7' - 0"	1 3/4"	D2A	HM	10/A601	13/A601	F2	HM	18
151	4' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	29
152	3' - 0"	7' - 10"	1 3/4"	D1	HM		19/A352	F1	HM	12
154	11' - 0"	8' - 0"	2 1/8"	OVHD-2		18/A352	19/A352			34
161	5' - 0"	7' - 0"	1 3/4"	D4	HM	5/A601	4A/601	F1	HM	15
161A	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
161B	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
162A	7' - 7"	8' - 0"	1 3/4"	D3	AL/GL	4/A653	10/A351	SF / CW	AL	04
162B	16' - 0"	16' - 0"	2 1/8"	OVHD-1		13/A352	15/A352			34
163	7' - 8"	7' - 10"	1 3/4"	D5	HM			F1	HM	10
164	16' - 0"	16' - 0"	2 1/8"	OVHD-1		13/A352	15/A352			34
165	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	6/A653	16/A653	SF / CW	AL	02
165B	6' - 0"	8' - 0"	1 3/4"	D3	AL/GL	1/A554	14/A601	SF / CW	AL	08
166	6' - 0"	8' - 0"	1 3/4"	D4	HM	5/A601	4A/601	F1	HM	15
167	2' - 10"	8' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
170	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
176	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
177	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
179	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
180	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
181	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
182	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
183	3' - 0"	7' - 0"	1 3/4"	D1	HM			F1	HM	
201A	3' - 0"	6' - 10"	1 3/4"	D2	AL/GL		6/A562	SF / CW	AL	23
201B	3' - 0"	6' - 10"	1 3/4"	D2	AL/GL		6/A562	SF / CW	AL	23
202	3' - 0"	6' - 10"	1 3/4"	D2	AL/GL		7/A562	SF / CW	AL	33
203	5' - 0"	7' - 0"	1 3/4"	D4	HM	5/A601	4A/601	F1	HM	30
205	5' - 0"	8' - 2"	1 3/4"	D4	HM	5/A601	4A/601	F1	HM	31
206A	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
206B	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
206C	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
206D	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
206E	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
207	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
208	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	26
209	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	6/A601	F1	HM	27
210A	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
210B	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	20
211	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	21
212	3' - 0"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F1	HM	19
214	2' - 10"	7' - 0"	1 3/4"	D1	HM	5/A601	4A/601	F2	HM	22
216	4' - 0"	6' - 10 1/2"	1 3/4"	D2A	HM	5/A601	4A/601	F1	HM	17
C169	8' - 8"	4' - 0"	1/16"	COIL-3		20/A553	5/A353			34
P100A	6' - 4"	8' - 2"	1/16"	COIL-2		4/A353	5/A353			34
P100B	3' - 0"	8' - 0"	1 3/4"	D1	HM		7/A353		HM	13
P100C	6' - 0"	10' - 0"		COIL-1		8/A353	9/A353			34
T100	6' - 0"	7' - 0"	1 3/4"	D4	HM	20/A402	9/A601	F2	HM	11

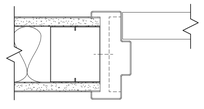
DOOR SCHEDULE GENERAL NOTES

1. FOR DOORS IN CURTAIN WALL AND STOREFRONT, COORDINATE AND VERIFY ACTUAL DOOR HEIGHTS AND WIDTHS WITH CURTAIN WALL AND STOREFORNT MANUFACTURER.
2. FOR EXTERIOR DOORS - SEE EXTERIOR DETAILS FOR MORE INFORMATION ABOUT FRAME INSTALLATION
3. SEE HARDWARE SCHEDULE AND DATA & TECHNOLOGY SHEETS FOR MORE INFORMATION ON DOORS WITH ACCESS OR SECURITY CONTROLS. COORDINATE BETWEEN VENDORS TO PROVIDE FULLY FUNCTIONAL DOOR.
4. DOORS AND FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL FINISHES, UNLESS NOTED OTHERWISE. DOORS SHALL BE PAINTED ***P1-5***. SEE FINISH PLANS AND INTERIOR ELEVATIONS FOR ADJACENT FINISHES
5. PROVIDE THERMALLY BROKEN DOOR FRAME AND THRESHOLD. PROVIDE INSULATED DOOR AT EXTERIOR HOLLOW METAL DOOR. PROVIDE THEMALLY BROKEN FRAME, DOOR BODY AND THRESHOLD AT EXTERIOR ALUMINUM AND GLASS DOORS IN CURTAIN WALL AND STOREFRONT SYSTEMS



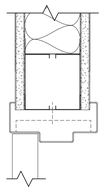
3 PLN DTL - CMU-2 AND STUD WALL w FRAME

A601 3" = 1'-0"



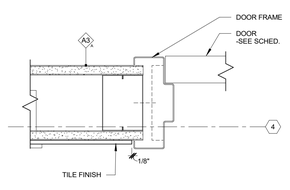
4 PLN DTL - TYP GYP DOOR JAMB

A601 3" = 1'-0"



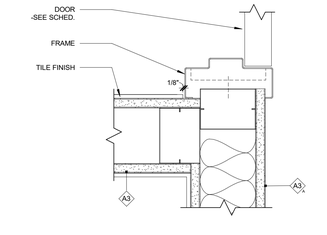
5 TYP GYP DOOR HEAD

A601 3" = 1'-0"



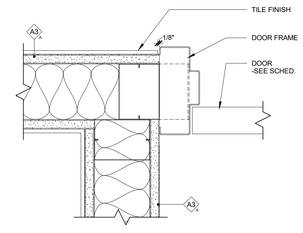
6 PLN DTL - TYP DOOR JAMB IN CT WALL

A601 3" = 1'-0"



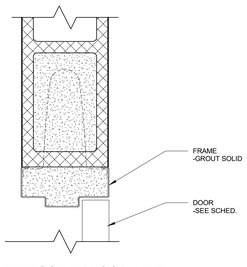
7 PLN DTL - DOOR FRAME AT CORNER TILED

A601 3" = 1'-0"



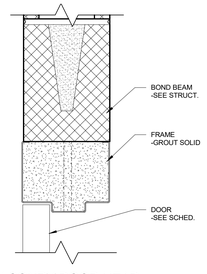
8 PLN DTL - DOOR FRAME AT INSIDE CORNER

A601 3" = 1'-0"



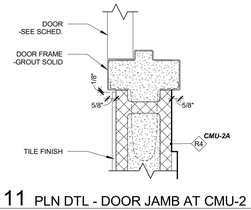
9 PLN DTL - TYP MASONRY DOOR JAMB

A601 3" = 1'-0"



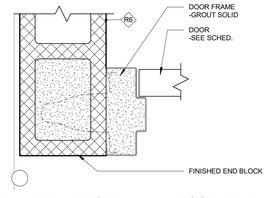
10 TYP MASONRY DOOR HEAD

A601 3" = 1'-0"



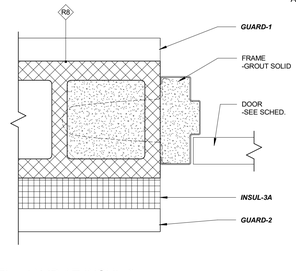
11 PLN DTL - DOOR JAMB AT CMU-2

A601 3" = 1'-0"



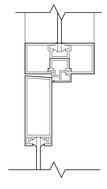
12 PLAN DTL - KITCHEN 142A - DOOR JAMB

A601 3" = 1'-0"



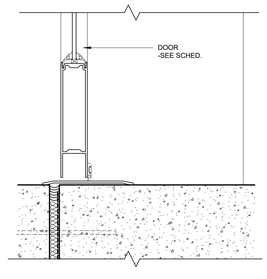
13 PLN DTL - JAMB AT INSUL-3

A601 3" = 1'-0"

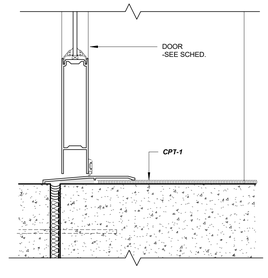


14 TYP STFT-1 - JAMB

A601 3" = 1'-0"



SADDLE THRESHOLD



OFFSET THRESHOLD

15 EXTERIOR THRESHOLDS

A601 3" = 1'-0"

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Landscape Architect

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Boelter Premier

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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1	2023.06.09	BID DOCUMENTS

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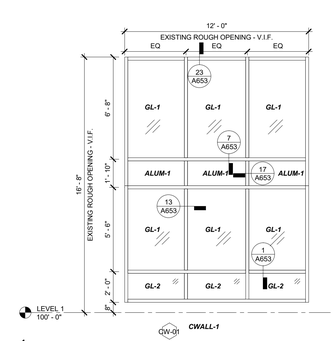
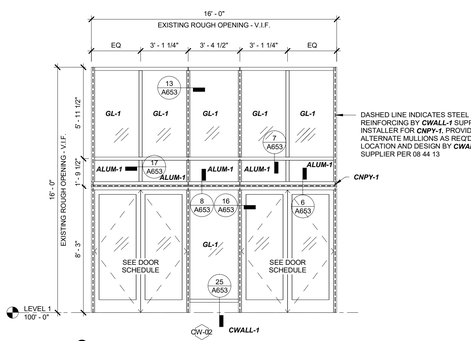
DOOR SCHEDULE, TYPES AND DETAILS

A601



1 CW-01
A651 1/4" = 1'-0"



2 CW-02
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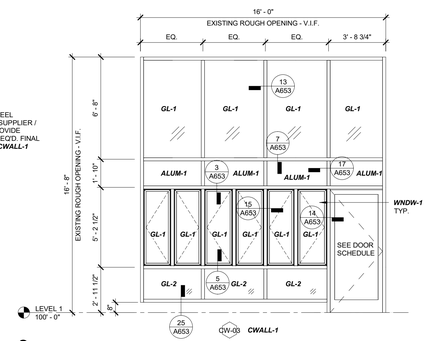

3 CW-03
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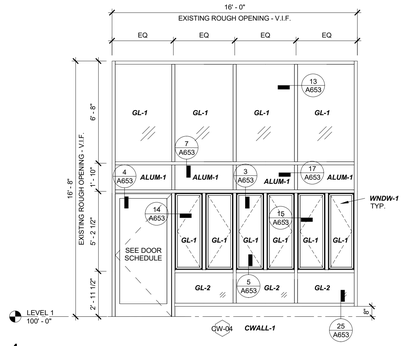

4 CW-04
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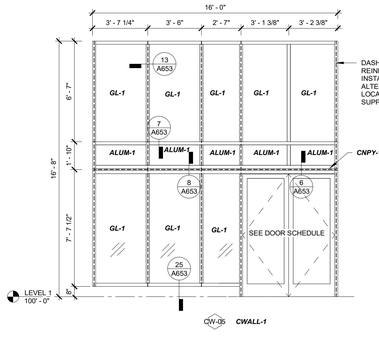

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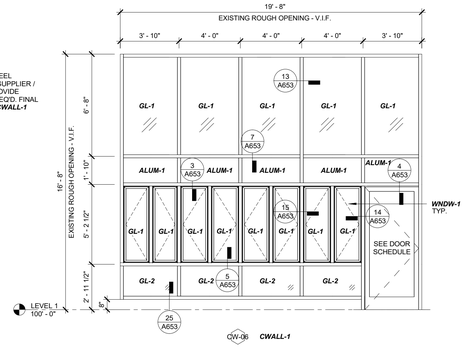

6 CW-06
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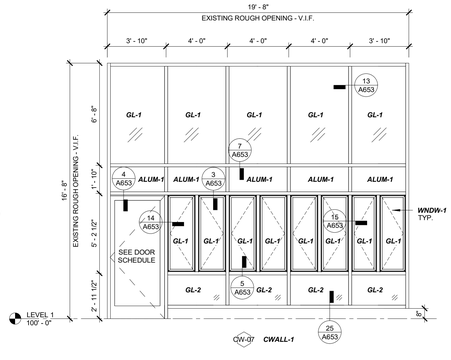

7 CW-07
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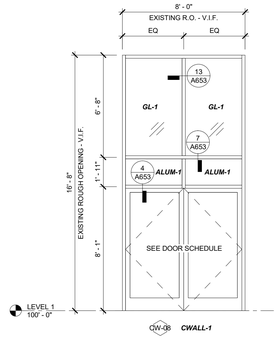

8 CW-08
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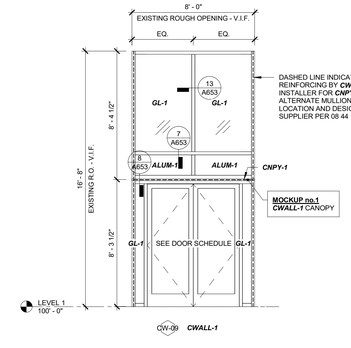
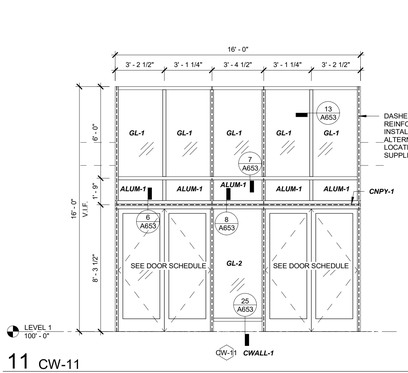


9 CW-09
A651 1/4" = 1'-0"

10 CW-10
A651 1/4" = 1'-0"



11 CW-11
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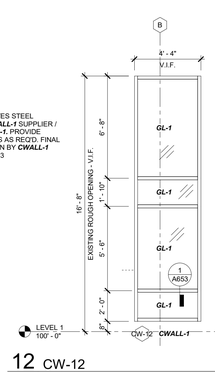

12 CW-12
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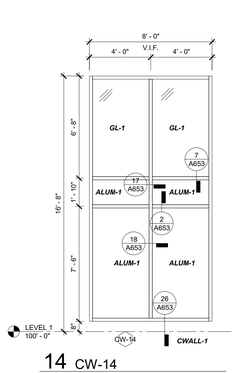
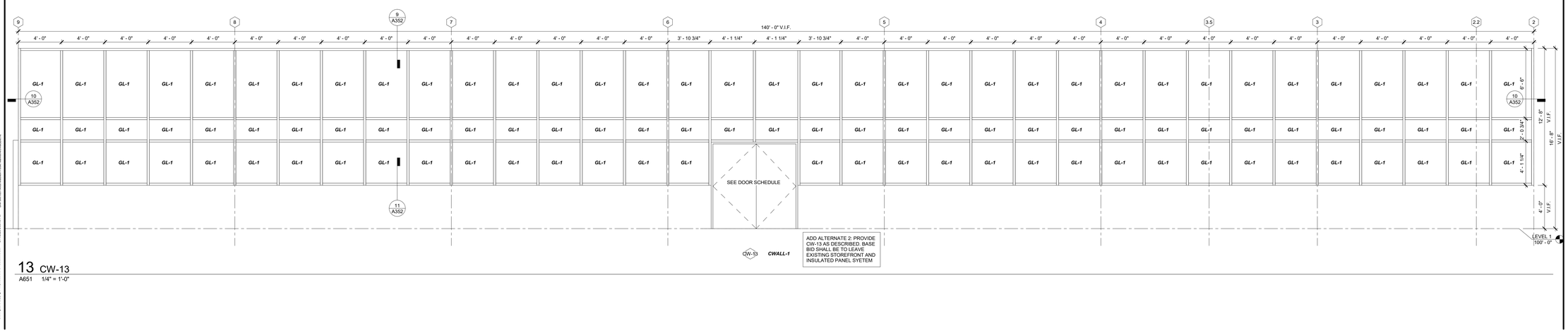


14 CW-14
A651 1/4" = 1'-0"



13 CW-13
A651 1/4" = 1'-0"

GENERAL NOTES - EXTERIOR GLAZING

1. OVERALL FRAME DIMENSIONS INDICATE EXISTING R.O. SIZE UNLESS NOTED OTHERWISE. V.I.F.
2. SPACING BAR SHALL BE DARK ANODIZED MILL-FINISHED ALUMINUM.
3. DELEGATED ENGINEERING DESIGN IS REQUIRED FOR BOTH STOREFRONT AND CURTAIN WALL WINDOW SYSTEM TO MEET LOCAL BUILDING CODE. PROVIDE ADDITIONAL STEEL REINFORCEMENT AT MULLIONS AS REQUIRED.
4. ***ALUM-1*** PANELS TO BE FLUSH WITH MULLION OUTER FACE
5. ALL CASEMENT CURTAINWALL INFILL VENTS TO BE MANUALLY OPERABLE. SEE CURTAINWALL MANUFACTURER FOR SPECIFICATIONS.
6. CORNER OF BUTT GLAZED STOREFRONT AND CURTIAN WALL WINDOW SHALL BE BUTT GLAZED UNLESS NOTED OTHERWISE.

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MADISON PUBLIC MARKET
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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
15278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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WINDOW TYPES AND DETAILS

A651

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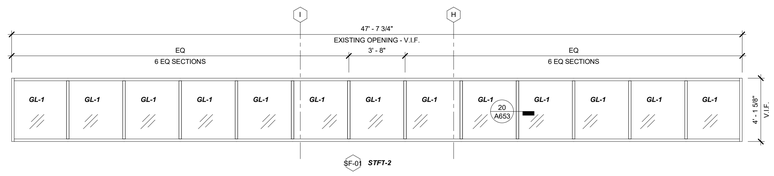
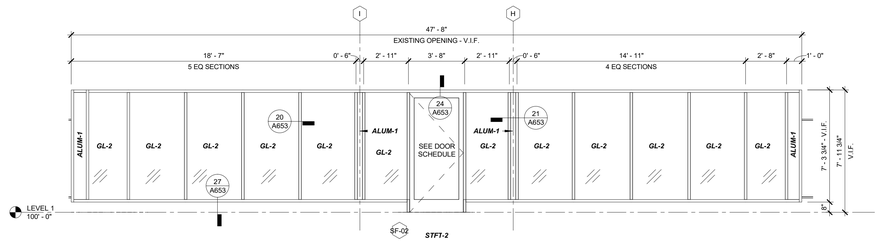


1 SF-01
A652 1/4" = 1'-0"



2 SF-02
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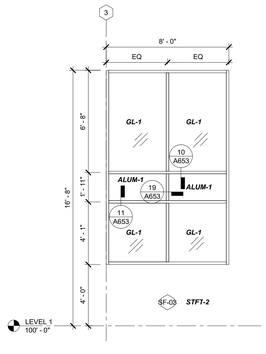
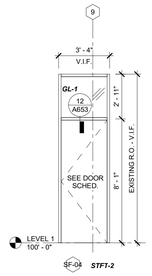


3 SF-03
A652 1/4" = 1'-0"



4 SF-04
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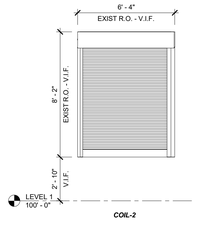

5 COIL-2
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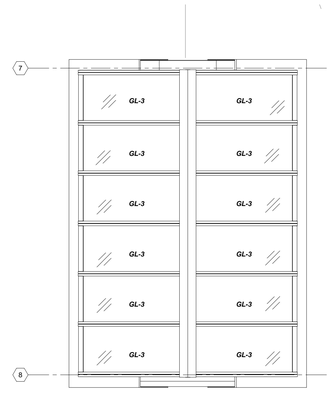
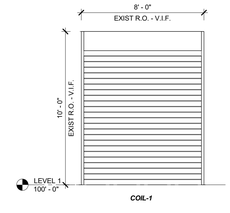


6 SKY-1
A652 1/4" = 1'-0"



7 COIL-1
A652 1/4" = 1'-0"

GENERAL NOTES - EXTERIOR GLAZING

1. OVERALL FRAME DIMENSIONS INDICATE EXISTING R.O. SIZE UNLESS NOTED OTHERWISE. V.I.F.
2. SPACING BAR SHALL BE DARK ANODIZED MILL-FINISHED ALUMINUM.
3. DELEGATED ENGINEERING DESIGN IS REQUIRED FOR BOTH STOREFRONT AND CURTAIN WALL WINDOW SYSTEM TO MEET LOCAL BUILDING CODE. PROVIDE ADDITIONAL STEEL REINFORCEMENT AT MULLIONS AS REQUIRED.
4. ***ALUM-1*** PANELS TO BE FLUSH WITH MULLION OUTER FACE
5. ALL CASEMENT CURTAINWALL INFILL VENTS TO BE MANUALLY OPERABLE. SEE CURTAINWALL MANUFACTURER FOR SPECIFICATIONS.
6. CORNER OF BUTT GLAZED STOREFRONT AND CURTIAN WALL WINDOW SHALL BE BUTT GLAZED UNLESS NOTED OTHERWISE.

Architecture and Interiors

MSRDesign

510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

Salas O'Brien

2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

Civil Engineer

Vierbicher

999 Fourier Dr, Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design

1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering,
Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.

1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design

Mazzetti, Inc.

1999 Broadway, Suite 2205.
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier

7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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WINDOW TYPES AND DETAILS

A652

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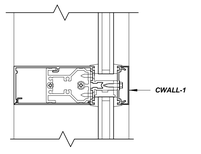
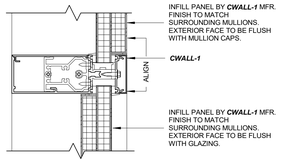
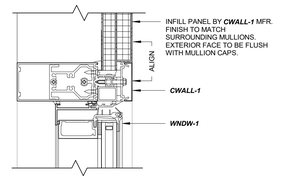


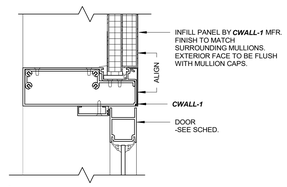
1 CWALL-1 HORIZONTAL-CAPPED
A653 3" = 1'-0"



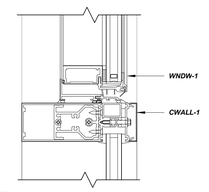
2 CWALL-1 INFILL PANEL TRANSITION
A653 3" = 1'-0"



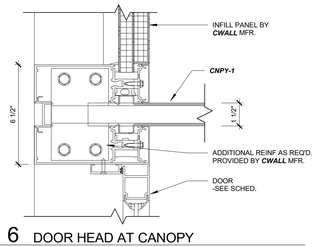
3 WNDW-1 AT CWALL-1- HEAD
A653 3" = 1'-0"



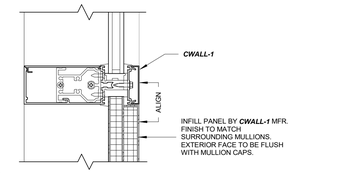
4 INFILL PANEL AT DOOR HEAD
A653 3" = 1'-0"



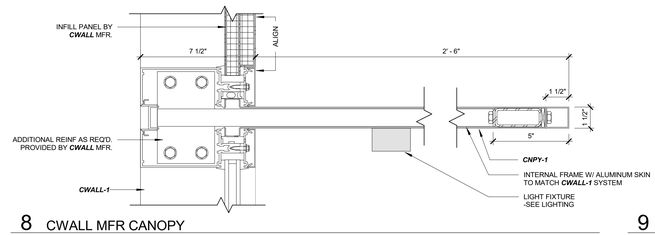
5 WNDW-1 AT CWALL-1 - SILL
A653 3" = 1'-0"



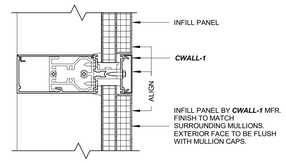
6 DOOR HEAD AT CANOPY
A653 3" = 1'-0"



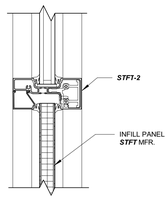
7 HORIZONTAL MULLION -GLAZED TO INFILL PANEL
A653 3" = 1'-0"



8 CWALL MFR CANOPY
A653 3" = 1'-0"



9 HORIZONTAL MULLION STACKED INFILL PANEL
A653 3" = 1'-0"



10 STFT-2 GLASS OVER INFILL PNL
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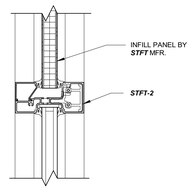
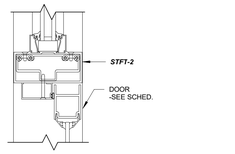
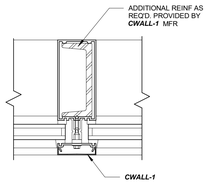


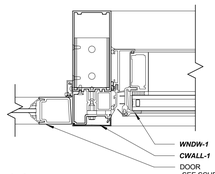
11 STFT INFILL PNL OVER GLAZING
A653 3" = 1'-0"



12 STFT DOOR HEAD AT TRANSOM
A653 3" = 1'-0"



13 CWALL-1 VERTICAL-CAPPED
A653 3" = 1'-0"



14 WNDW-1 AT DOOR JAMB
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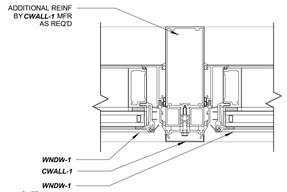
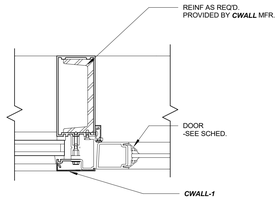


15 WNDW-1 AT CWALL-1 - VERTICAL MULLION
A653 3" = 1'-0"



16 CWALL-1 VERTICAL AT CNPY
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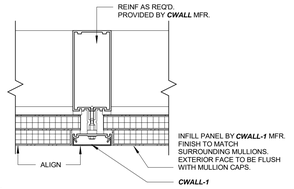
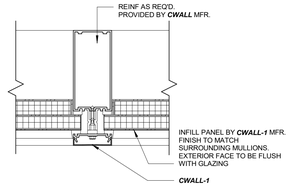
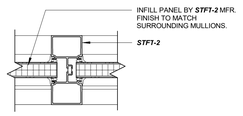


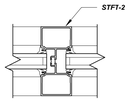
17 VERTICAL MULLION AT INFILL PANEL
A653 3" = 1'-0"



18 VERTICAL MULLION AT INSET INFILL PANEL
A653 3" = 1'-0"



19 STFT-2 VERTICAL MULLION AT INFILL
A653 3" = 1'-0"



20 STFT TYPICAL VERTICAL MULLION
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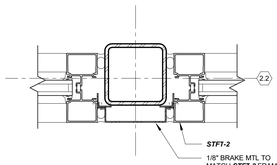

21 STFT-2 COLUMN WRAP
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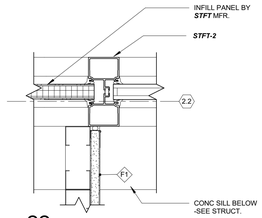

22 STFT - WALL
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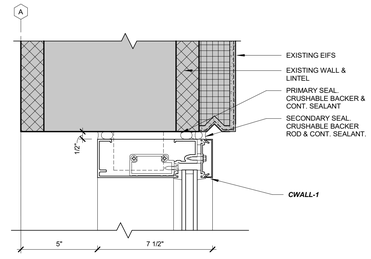

23 CWALL-1 HEAD AT EXISTING OPENING
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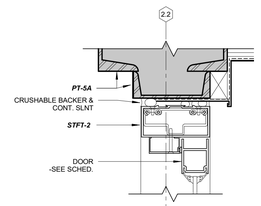

24 STFT DOOR HEAD AT CHANNEL
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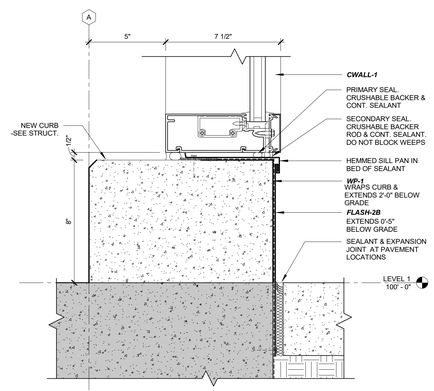

25 CWALL-1 SILL AT NEW BASE
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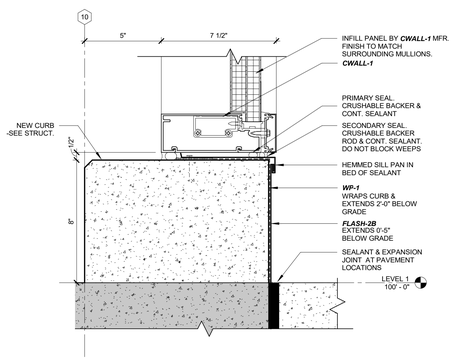
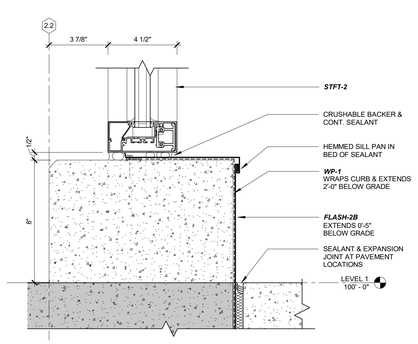


26 CWALL-1 INFILL AT NEW BASE
A653 3" = 1'-0"



27 STFT-2 SILL AT NEW BASE
A653 3" = 1'-0"

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Vierbicher
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7120 Northland Terrace.
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No. 2018006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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WINDOW TYPES AND DETAILS

A653

1 LEVEL 1 FINISH PLAN NORTH

A701N 1/8" = 1'-0"

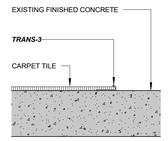
FINISH PLAN KEY

FLOOR FINISH: CPT-1A (STYLE COLOR)
WALL FINISH: PT-1A (STYLE / COLOR FINISH)
WINDOW TREATMENT: SHADE-1 (STYLE)

NOTES:

1. SEE PROJECT SPECIFICATION FOR KEY TO FINISH CODES.
2. COORDINATE EXTENT OF FLOOR AND WALL FINISHES WITH MILLWORK DRAWINGS.
3. SEE SHEETS A151 FOR RESTROOM ELEVATIONS SHOWING WALL TILE PATTERNS & PAINT LOCATIONS ABOVE.
4. ALL GWB CEILINGS TO BE PAINTED ***PT-1A*** U.N.O.
5. ALL ELECTRICAL ROOMS, JANITOR'S CLOSETS AND MECHANICAL ROOMS TO BE PAINTED PT-2A U.N.O.
6. INSTALLER RESPONSIBLE FOR FIELD VERIFYING ALL QUANTITIES, DIMENSIONS AND CONDITIONS FOR WINDOW TREATMENTS. ALL SHADES SHALL BE FULL WIDTH WITH NO SEAMS OR BATTENS. INSTALLER RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR APPROVAL.
7. VENDOR STALL DIMISING WALLS TO RECIEVE LEVEL 0 GYP FINISH. COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR DEMISING WALL LOCATIONS.
8. ASIDE FROM VENDOR STALL DIMISING WALLS, ALL GWB WALLS TO BE PAINTED ***PT-2A*** U.N.O.
9. HATCHED AREA INDICATES ASSUMED EXTENT OF NEW FINISHES REQ'D AT AREAS OF EXISTING SLAB WHICH HAVE BEEN PATCHED AND REPLACED - REF DEMO DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL EXTENTS AND FINAL SQUARE FOOTAGE OF PATCH AND REPLACE WORK AT ALL EXISTING FLOORS.
10. U.N.O. PROVIDE ***EPOXY-1*** AT ALL LOCATIONS WHERE EXISTING SLAB HAS BEEN PATCHED AND REPLACED. NEW FINISH SURFACE SHALL BE FLUSH AND LEVEL WITH EXISTING. JOINT BETWEEN NEW AND EXISTING EPOXY FINISHES SHALL BE STRAIGHT AND UNIFORM. PREP JOINT AS PER ***EPOXY-1*** MANUF'S RECOMENDATIONS.
11. SEE ARCHITECTURAL STEEL DRAWINGS A110N AND A110S FOR ADDITONAL FINISH NOTES AT VENDOR STEEL CANOPIES.
12. REFERENCE PROJECT MANUAL SPECIFICATIONS FOR SURFACE PREP FOR ALL EXISTING SLABS TO RECIEVE NEW FINISHES BY LOCATION.

CPT-# TO EXISTING CONC



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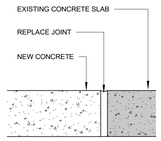
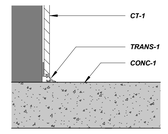
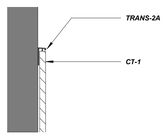


TRANS-1 TRANSITION STRIP



TRANS-2 TRANSITION STRIP



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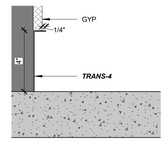

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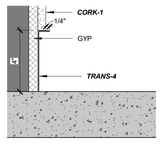
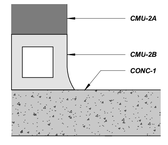
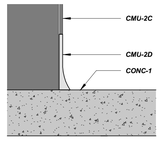


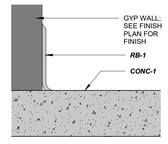
CMU-2B WALL BASE



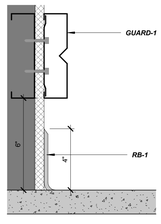
CMU-2D WALL BASE



RB-1 RUBBER WALL BASE



GUARD-1 METAL WALL BASE



TRANSITION DETAILS

3" = 1'-0"

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Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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LEVEL 1 FINISH PLAN - NORTH

A701N

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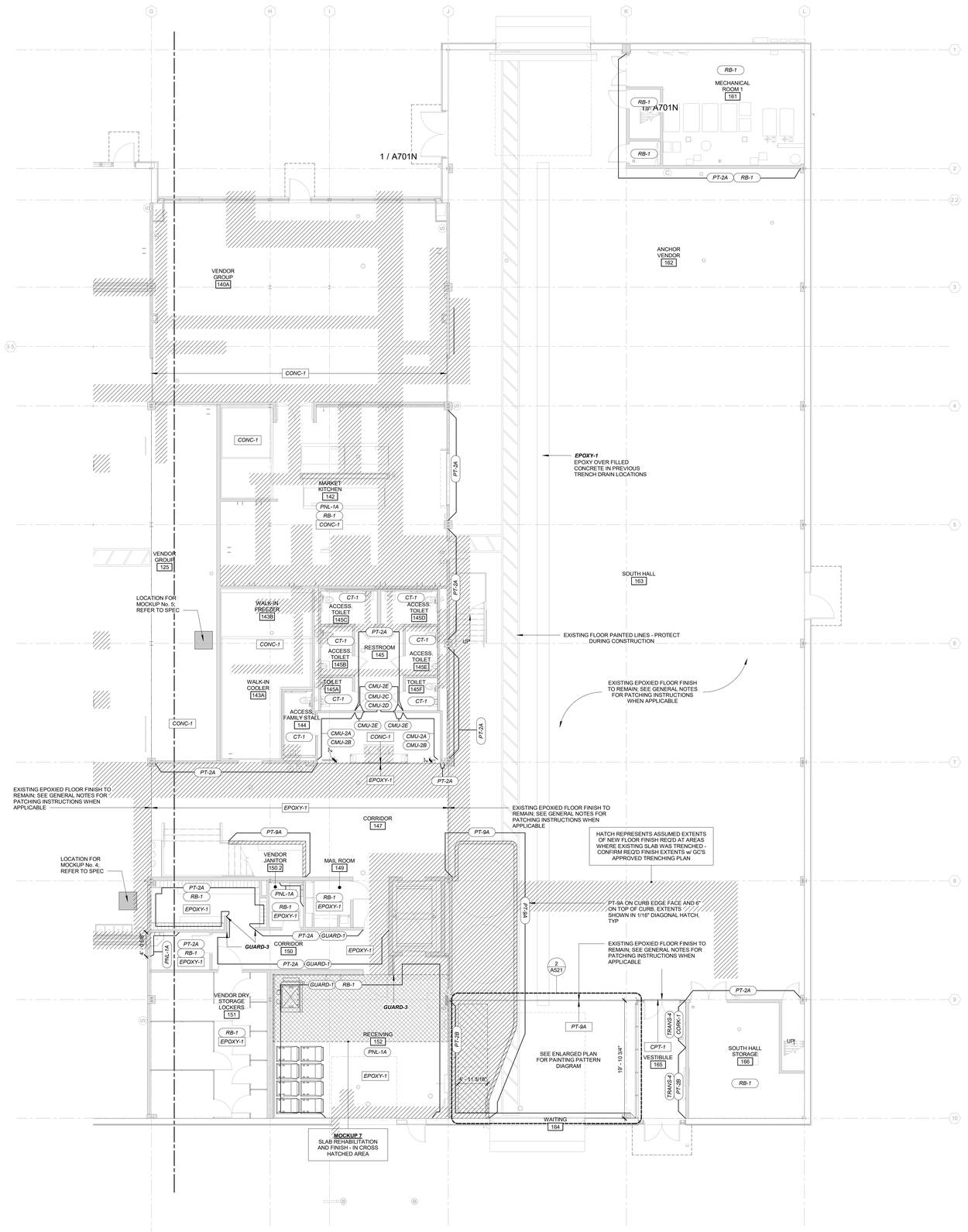

1 LEVEL 1 FINISH PLAN SOUTH
A701S 1/8" = 1'-0"

FINISH PLAN KEY

FLOOR FINISH	WALL FINISH	WINDOW TREATMENT
CPT-1A	PT-1A	SHADE-1
STYLE COLOR	STYLE / COLOR FINISH	STYLE

NOTES:

1. SEE PROJECT SPECIFICATION FOR KEY TO FINISH CODES.
2. COORDINATE EXTENT OF FLOOR AND WALL FINISHES WITH MILLWORK DRAWINGS.
3. SEE SHEETS A151 FOR RESTROOM ELEVATIONS SHOWING WALL TILE PATTERNS & PAINT LOCATIONS ABOVE.
4. ALL GWB CEILINGS TO BE PAINTED ***PT-1A*** U.N.O.
5. ALL ELECTRICAL ROOMS, JANITOR'S CLOSETS AND MECHANICAL ROOMS TO BE PAINTED PT-2A U.N.O.
6. INSTALLER RESPONSIBLE FOR FIELD VERIFYING ALL QUANTITIES, DIMENSIONS AND CONDITIONS FOR WINDOW TREATMENTS. ALL SHADES SHALL BE FULL WIDTH WITH NO SEAMS OR BATTENS. INSTALLER RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR APPROVAL.
7. VENDOR STALL DIMISING WALLS TO RECIEVE LEVEL 0 GYP FINISH. COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR DEMISING WALL LOCATIONS.
8. ASIDE FROM VENDOR STALL DIMISING WALLS, ALL GWB WALLS TO BE PAINTED ***PT-2A*** U.N.O.
9. HATCHED AREA INDICATES ASSUMED EXTENT OF NEW FINISHES REQ'D AT AREAS OF EXISTING SLAB WHICH HAVE BEEN PATCHED AND REPLACED - REF DEMO DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL EXTENTS AND FINAL SQUARE FOOTAGE OF PATCH AND REPLACE WORK AT ALL EXISTING FLOORS.
10. U.N.O. PROVIDE ***EPOXY-1*** AT ALL LOCATIONS WHERE EXISTING SLAB HAS BEEN PATCHED AND REPLACED. NEW FINISH SURFACE SHALL BE FLUSH AND LEVEL WITH EXISTING. JOINT BETWEEN NEW AND EXISTING EPOXY FINISHES SHALL BE STRAIGHT AND UNIFORM. PREP JOINT AS PER ***EPOXY-1*** MANUF'S RECOMENDATIONS.
11. SEE ARCHITECTURAL STEEL DRAWINGS A110N AND A110S FOR ADDITONAL FINISH NOTES AT VENDOR STEEL CANOPIES.
12. REFERENCE PROJECT MANUAL SPECIFICATIONS FOR SURFACE PREP FOR ALL EXISTING SLABS TO RECIEVE NEW FINISHES BY LOCATION.

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Project No: 2019006.00

MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature
Print Name Dagmara Larsen
Date 2023.06.09 **License No** 13278-5

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LEVEL 1 FINISH PLAN - SOUTH

A701S

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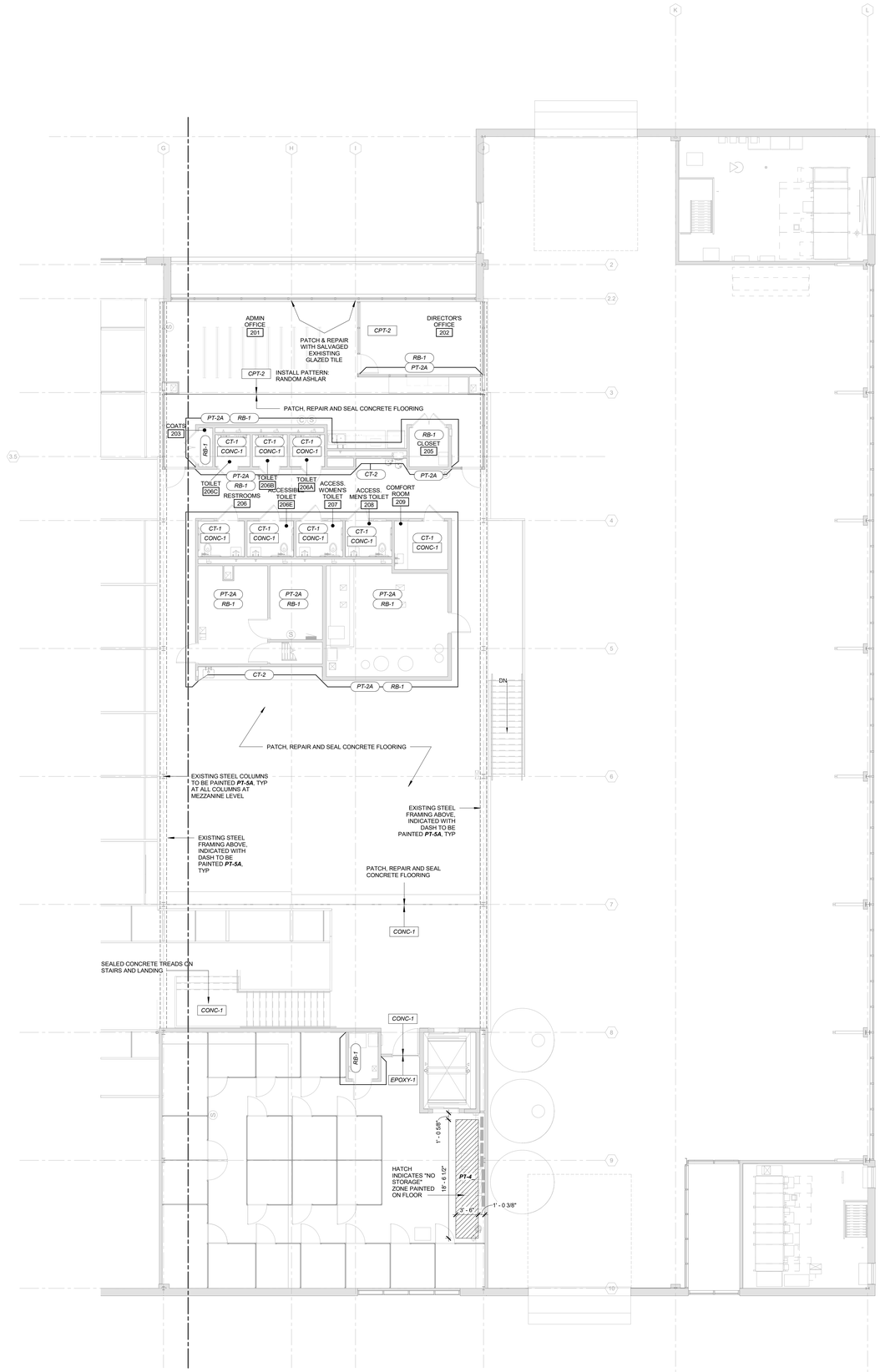

1 MEZZANINE LEVEL FINISH PLAN

A702S 1/8" = 1'-0"

FINISH PLAN KEY

FLOOR FINISH	WALL FINISH	WINDOW TREATMENT
CPT-1 A	PT-1 A	SHADE-1
STYLE COLOR	STYLE / COLOR FINISH	STYLE

NOTES:

1. SEE PROJECT MANUAL SPECIFICATION FOR KEY TO FINISH CODES.
2. COORDINATE EXTENT OF FLOOR AND WALL FINISHES WITH MILLWORK DRAWINGS.
3. SEE SHEETS A151 FOR RESTROOM ELEVATIONS SHOWING WALL TILE PATTERNS & PAINT LOCATIONS ABOVE.
4. ALL GWB CEILINGS TO BE PAINTED ***PT-1A*** U.N.O.
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6. INSTALLER RESPONSIBLE FOR FIELD VERIFYING ALL QUANTITIES, DIMENSIONS AND CONDITIONS FOR WINDOW TREATMENTS. ALL SHADES SHALL BE FULL WIDTH WITH NO SEAMS OR BATTENS. INSTALLER RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR APPROVAL.
7. VENDOR STALL DIMISING WALLS TO RECIEVE LEVEL 0 GYP FINISH. COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR DEMISING WALL LOCATIONS.
8. ASIDE FROM VENDOR STALL DIMISING WALLS, ALL GWB WALLS TO BE PAINTED ***PT-2A*** U.N.O.
9. HATCHED AREA INDICATES ASSUMED EXTENT OF NEW FINISHES REQ'D AT AREAS OF EXISTING SLAB WHICH HAVE BEEN PATCHED AND REPLACED - REF DEMO DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL EXTENTS AND FINAL SQUARE FOOTAGE OF PATCH AND REPLACE WORK AT ALL EXISTING FLOORS.
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12. REFERENCE PROJECT MANUAL SPECIFICATIONS FOR SURFACE PREP FOR ALL EXISTING SLABS TO RECIEVE NEW FINISHES BY LOCATION.

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MADISON PUBLIC MARKET

202 N First St, Madison, WI 53704

Project No: 20190606.00

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

BID DOCUMENTS

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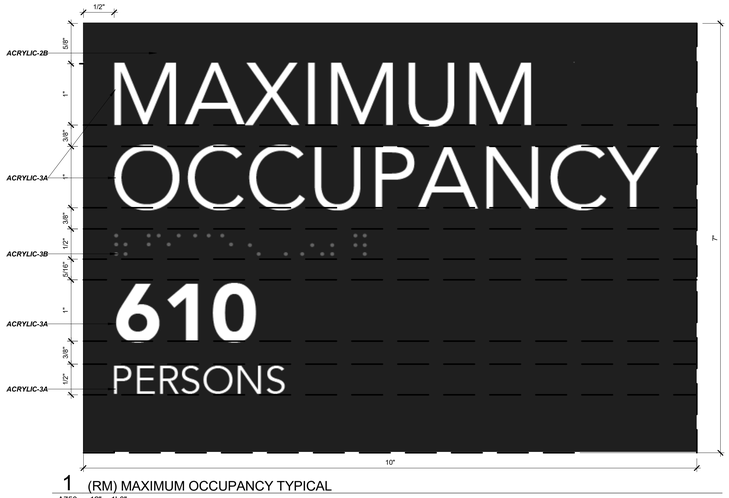
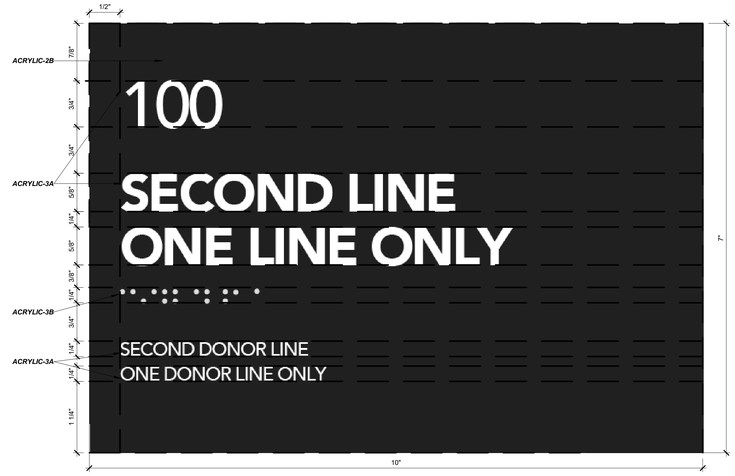
MEZZANINE LEVEL
FINISH PLAN - SOUTH

A702S



1 (RM) MAXIMUM OCCUPANCY TYPICAL
A750 12" = 1'-0"

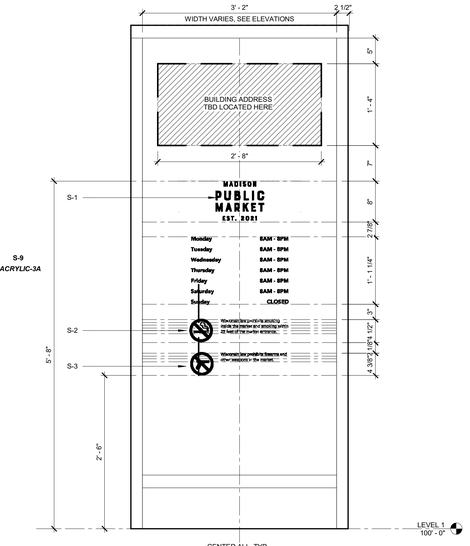


3 (R) ROOM IDENTIFICATION
A750 12" = 1'-0"

4A (EX) EXIT
A750 12" = 1'-0"

SYMBOLS SHOWN AS EXAMPLE ONLY.
SEE SCHEDULE FOR SYMBOL DETAILS.

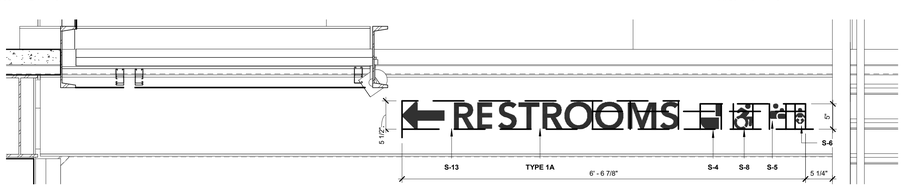
2 (RS) ROOM IDENTIFICATION W/ SYMBOL
A750 12" = 1'-0"



CENTER ALL, TYP.

1. AT DOUBLE DOORS, INSTALL ON RIGHT SIDELITE FROM EXTERIOR APPROACH TYP.
2. FINAL ADDRESS AND HOURS OF OPERATION DETAILS TBD

6 I -HOURS OF OPERATION - TYP.
A750 1" = 1'-0"



ALL, TYP.

5 W 145 C EAST ELEVATION - DETAIL ELEVATION
A750 1" = 1'-0"

SIGNAGE GENERAL NOTES

1. REFER TO SIGN SCHEDULE FOR SIGN MESSAGE CONTENT AND ROOM NUMBERS.
2. SEE SHEET G004 BUILDING CODE SUMMARY LIFE SAFETY PLANS.
3. ROOM NAMES ARE SUBJECT TO CHANGE.
   VERIFY ALL SIGN MESSAGE CONTENT WITH ARCHITECT PRIOR TO FABRICATION.
4. ALL DOOR NUMBERS ARE SUBJECT TO CHANGE.
   VERIFY ALL SIGN MESSAGE CONTENT WITH ARCHITECT PRIOR TO FABRICATION.
5. ARCHITECT WILL PROVIDE SYMBOLS S-2 - S-13 AS VECTORED IMAGE FILES.
6. CENTER ALL PICTOGRAMS, MESSAGES, AND CONTENT ON SIGNS U.O.N.
7. SIGN MOUNTING HEIGHTS REFERENCED START AFF. (AT FINISH FLOOR.)
8. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
9. IDENTIFY ALL SIGNS TO BE MOUNTED IN SHOP DRAWINGS.
10. WHEN MOUNTED ON GLASS AND NOT ACCOMPANIED BY A ROOM SIGN, CONTRACTOR TO PROVIDE BACK PANEL OR ACCOMPANYING ROOM SIGN, ON OPPOSITE SIDE OF GLASS TO HIDE TAPE MOUNTING. SEE SCHEDULE AND SIGNAGE FLOOR PLANS.
11. SIGNS TO BE MOUNTED ON FINISH WALLS OTHER THAN PAINTED GYPSUM WALLS TO BE NOTED IN SHOP DRAWINGS, AND PROPER INSTALLATION AND MOUNTING METHODS SHALL BE APPROVED BEFORE FABRICATION.
12. FIELD VERIFY ALL CONDITIONS PRIOR TO INSTALLATION. SIGN LOCATIONS INDICATED ON FLOOR PLAN ARE GENERAL LOCATIONS FOR REFERENCE ONLY. SEE TYPICAL MOUNTING DETAILS AND INSTALL IN ACCORDANCE WITH BUILDING CODES AND ADA GUIDELINES.

IN ADDITION TO ROOMS SIGNS - AS INDICATED IN SCHEDULE - PROVIDE ADDITIONAL FILM-1 WAYFINDING SIGNAGE ABOVE ROOM SIGN AT ROOMS NOTED IN SCHEDULE NOTES

1. PROVIDE SIGN S-8 AT ALL ACCESSIBLE RESTROOMS - SEE SCHED. NOTES
2. PROVIDE SIGN S-5 AT ALL FAMILY RESTROOMS - SEE SCHEDULE NOTES.
3. PROVIDE SIGN S-6 AT ALL RESTROOMS WITH CHANGING STATIONS - SEE SCHEDULE NOTES NOTES

SIGNAGE TYPE KEY

EX	FIRE SAFETY/EXIT
R	ROOM IDENTIFICATION
RS	ROOM ID WITH SYMBOL
RM	MAXIMUM OCCUPANCY
I	INFORMATIONAL
W	WAYFINDING

XX.###.(#)
SIGN TYPE — SYMBOL TYPE
ROOM NUMBER

(EX) EXIT/FIRE & SAFETY
(R) ROOM ID
(RS) ROOM ID WITH SYMBOL
(RM) MAXIMUM OCCUPANCY

ARCYLIC-2B: BASE PLATE PAINTED **PT-B**
ACRYLIC-3A: WHITE LETTERING
ACRYLIC-3B: BRAILLE

ACRYLIC-2B ACRYLIC - SIGNAGE
MFR:ENCOMPASS;
STYLE:ECO-PRESS ACRYLIC ;
GAUGE: 1/8" THICK;
PAINTED TO MATCH PT-B;
NOTES: SEE SIGNAGE DETAILS FINISH TO BE STANDARD SUEDE;

PT- _B ***PAINT COLOR - GREY***
MFR: Benjamin Moore;
STYLE:1617;
COLOR: Cheating Heart;

ACRYLIC-3A ADA RAISED LETTERING AND BRAILLE
MFR:DESIGNER SIGN;
STYLE: STANDARD TEXT AND BACKGROUND ADA COLORS;
COLOR: 3X1-413 CINDER;
NOTES: SEE SIGNAGE DETAILS;

ACRYLIC-3B ADA RAISED LETTERING AND BRAILLE
MFR:DESIGNER SIGN;
STYLE: STANDARD TEXT AND BACKGROUND ADA COLORS;
COLOR: 3X1-305 LIGHT GREY;
NOTES: SEE SIGNAGE DETAILS;

(I) INFORMATIONAL

FILM-1: LETTERS AND LOGO INDIVIDUALLY CUT-OUT

FILM-1 ***PVC-FREE VINYL FILM***
PRODUCT:ALUMIGRAPHICS SMOOTH ;
APPLICATION: VERTICAL;
COLOR: WHITE;
TYPE: ALUMINUM FOIL BASE MEDIA;
LOCATIONS: ON GLASS AS INDICATED IN DRAWINGS;

(W) RESTROOM WAYFINDING

ARCYLIC-2B: 1/8" ACRYLIC PAINTED TO MATCH PT-B
SEE ELEVATIONS FOR REFERENCE
PROVIDE INSTALLATION INFORMATION AND SHOP DRAWINGS TO INDICATE MOUNTING DETAILS WHEN INSTALLED ON PERFORATED METAL WALLS

SIGNAGE TYPEFACE

TYPE 1: AVENIR BLACK
TYPE 1A: UPPERCASE
TYPE 1B: SENTENCE CASE
TYPE 2: AVENIR MEDIUM
TYPE 2A: UPPERCASE
TYPE 2B: SENTENCE CASE

avenir black
1234567890
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

avenir medium
1234567890
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

SYMBOL CODE KEY

1. ICONS SHOWN FOR REFERENCE ONLY.
   SEE ELEVATIONS FOR SYMBOL MATERIALS, SIZES, AND COLOR INFORMATION.

SIGNAGE SCHEDULE - ROOM AND FIRE & SAFETY

TYPE	MESSAGE	NOTES
EX 101	EXIT	ANTE/VESTIBULE EXIT SIGNAGE
EX 102A	EXIT	ANCHOR VENDOR EXIT SIGNAGE
EX 102B	EXIT	ANCHOR VENDOR EXIT SIGNAGE
EX 108	EXIT	EAST ENTRY VESTIBULE EXIT SIGNAGE
EX 111	EXIT	VENDOR GROUP 111 EXIT SIGNAGE
EX 113	EXIT	VENDOR GROUP 113 EXIT SIGNAGE
EX 137	EXIT	VESTIBULE 137 EXIT SIGNAGE
EX 140	EXIT	VENDOR GROUP 10 EXIT SIGNAGE
EX 152	EXIT	LOADING EXIT SIGNAGE
EX 162	EXIT	ANCHOR VENDOR EXIT SIGNAGE
EX 163	EXIT	SOUTH HALL EXIT SIGNAGE
EX 165	EXIT	ANCHOR VENDOR EXIT SIGNAGE
R 142	MARKET KITCHEN 142	ROOM NAME & SIGN MESSAGE TBD
R 142	MARKET KITCHEN 142	ROOM NAME & SIGN MESSAGE TBD
R 143	WALK-IN COOLER 143	
R 148	VENDOR STORAGE LOCKERS 148	
R 149	CLEANING STORAGE 149	
R 150	STORAGE 150	
R 150.1	MARKET JANITOR 150	
R 150.2	VENDOR JANITOR 150	
R 151	DRY STORAGE 151	
R 152	LOADING 152	
R 161	MECHANICAL ROOM 161	
R 161A	STAIRS 161A	
R 161B	DATA CLOSET 161B	
R 166	SOUTH HALL STORAGE 166	
R 167	UTILITY CLOSET 167	
R 201A	OFFICE 201A	
R 201B	OFFICE 201B	
R 202	DIRECTOR'S OFFICE 202	
R 205	STORAGE 205	
R 209	COMFORT ROOM 209	S-7
R 210	STORAGE 210	
R 211	DATA 211	
R 212	UTILITY 212	
R 215	DRY STORAGE LOCKERS 215	
R E1A	ELEVATOR	LEVEL 1
R E1B	ELEVATOR	LEVEL 1
R E1C	ELEVATOR	MEZ LEVEL 2
R E1D	ELEVATOR	MEZ LEVEL 2
RM 163	MAXIMUM OCCUPANCY 610 PERSONS	
RM 213	MAXIMUM OCCUPANCY 150 PERSONS	
RS 144	ACCESS FAMILY STALL 144	S-8, S-5, S-6
RS 145A	TOILET 145A	
RS 145B	ACCESS TOILET 145B	S-8
RS 145C	ACCESS TOILET 145C	S-8, S-6
RS 145D	ACCESS TOILET 145D	S-8, S-6
RS 145E	ACCESS TOILET 145E	S-8
RS 145F	TOILET 145F	
RS 205A	TOILET 205A	
RS 206B	TOILET 206B	
RS 206C	TOILET 206C	
RS 206D	ACCESSIBLE TOILET 206D	S-8, S-6
RS 206E	ACCESSIBLE TOILET 206E	S-8
RS 207	ACCESS WOMEN'S TOILET 207	S-8, S-6
RS 208	ACCESS MEN'S TOILET 208	S-8, S-6

SIGNAGE SCHEDULE - WAYFINDING

TYPE	MESSAGE	NOTES
W 04-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 04-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 04-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 04-S12	04 RECEPTACLE SYMBOL	RECYCLING (S12)
W 05-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 05-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 05-S12	04 RECEPTACLE SYMBOL	RECYCLING (S12)
W 06-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 06-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 06-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 06-S12	04 RECEPTACLE SYMBOL	RECYCLING (S12)
W 07-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 09-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 09-S10	04 RECEPTACLE SYMBOL	COMPOST (S10)
W 09-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 09-S12	04 RECEPTACLE SYMBOL	RECYCLING (S12)
W 12-S11	04 RECEPTACLE SYMBOL	TRASH (S11)
W 145-S5	FAMILY RESTROOM SYMBOL	ATTACH TO PERFORATED METAL WALL. S-5
W 145-S6	BABY CHANGING STATION SYMBOL	ATTACH TO PERFORATED METAL WALL. S-6
W 145-S6	BABY CHANGING STATION SYMBOL	ATTACH TO PERFORATED METAL WALL. S-6
W 145-S6	BABY CHANGING STATION SYMBOL	ATTACH TO PERFORATED METAL WALL. S-6
W 145-S8	WHEELCHAIR ACCESSIBLE SYMBOL	ATTACH TO PERFORATED METAL WALL. S-8
W 145-S8	WHEELCHAIR ACCESSIBLE SYMBOL	ATTACH TO PERFORATED METAL WALL. S-8
W 145C	RESTROOMS + SYMBOLS - DIRECTIONAL	SEE ELEVATION FOR DETAILS.
W 145C	RESTROOMS + SYMBOLS - DIRECTIONAL	SEE ELEVATION FOR DETAILS.
W 206-S6	DIAPER CHANGING STATION SYMBOL	S-6
W 206-S7	COMFORT ROOM SYMBOL	S-7
W 206-S7	COMFORT ROOM SYMBOL	S-7
W 206-S8	WHEELCHAIR ACCESSIBLE SYMBOL	S-8
W 206-S8	WHEELCHAIR ACCESSIBLE SYMBOL	S-8
W 206A	RESTROOMS + SYMBOLS - DIRECTIONAL	SEE ELEVATION FOR DETAILS.
W 206B	RESTROOMS + SYMBOLS - DIRECTIONAL	SEE ELEVATION FOR DETAILS.

SIGNAGE SCHEDULE - INFORMATIONAL

TYPE	MESSAGE	NOTES
I 100	HOURS OF OPERATION & BUILDING ADDRESS	CENTER ON GLASS, TYPICAL. WHITE PVC-FREE VINYL; FINAL HOURS OF OPERATION TBD FINAL ADDRESS DETAILS TBD SEE DETAILS AND ELEVATIONS
I 108	HOURS OF OPERATION & BUILDING ADDRESS	CENTER MESSAGING ON RIGHT SIDELITE, TYP.; WHITE PVC-FREE VINYL; FINAL HOURS OF OPERATION TBD FINAL ADDRESS DETAILS TBD SEE DETAILS AND ELEVATIONS
I 134	HOURS OF OPERATION & BUILDING ADDRESS	CENTER ON GLASS, TYPICAL. WHITE PVC-FREE VINYL; PAINTED (WHITE) TO MATCH PT-A; FINAL HOURS OF OPERATION TBD SEE DETAILS AND ELEVATIONS
I 165	HOURS OF OPERATION & BUILDING ADDRESS	CENTER MESSAGING ON RIGHT SIDELITE, TYP.; WHITE PVC-FREE VINYL; FINAL HOURS OF OPERATION TBD FINAL ADDRESS DETAILS TBD SEE DETAILS AND ELEVATIONS
RS E.1	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB
RS E.2	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB
RS S.1	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB
RS S.2	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB
RS W.1	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB
RS W.2	NO SMOKING WITHIN 25'	W/ SYMBOL S-2 MOUNT 6" ABOVE LOWER EIFS BAND CENTER BELOW MECH LOUVERS LOCATE 6" ROUGH OPENING - EDGE TO JAMB

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Project No: 20190005.00

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Architect Seal

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Signature Dlarsen
Print Name Dagmara Larsen
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SIGNAGE SCHEDULE AND NOTES

A750

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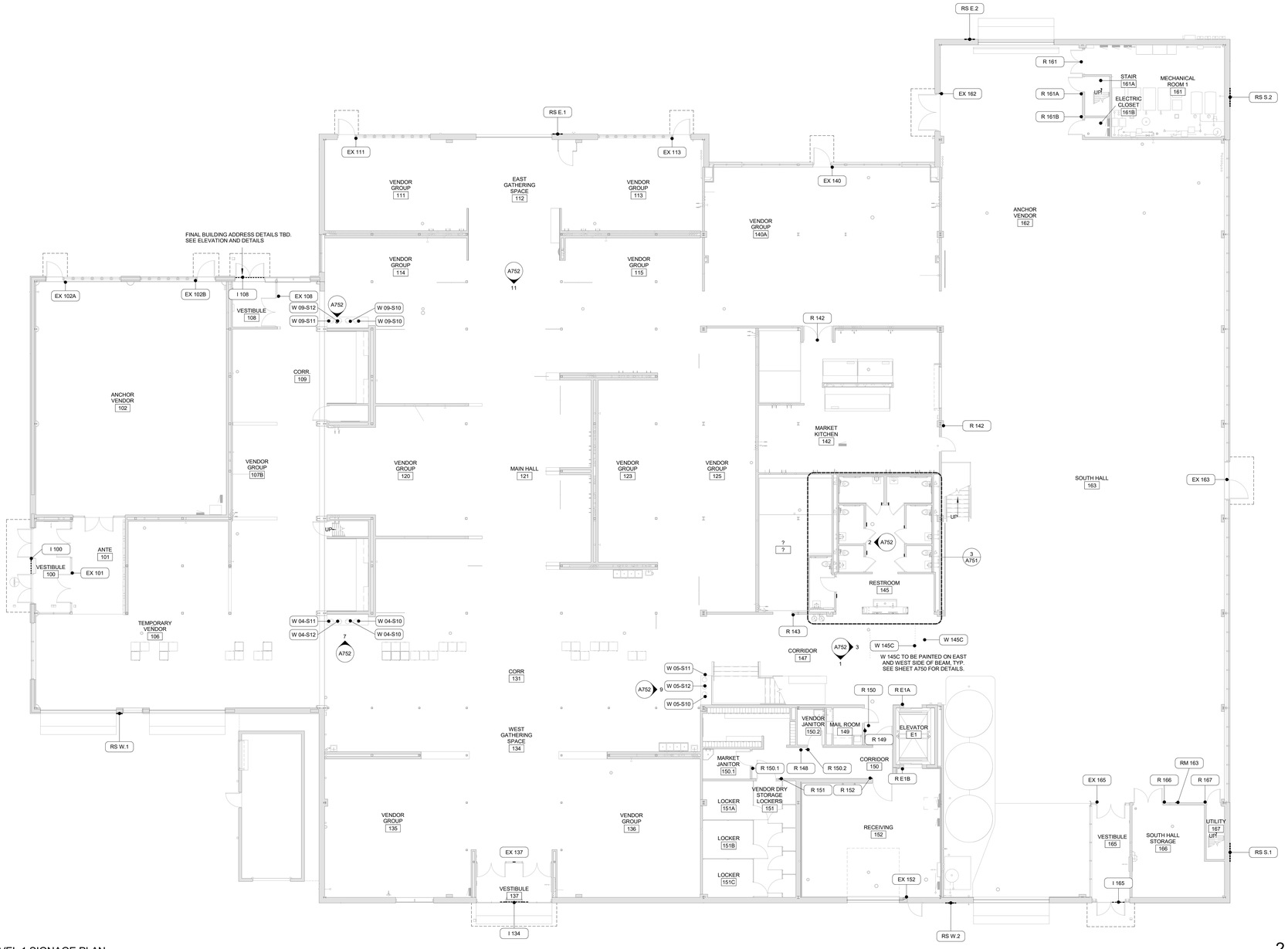
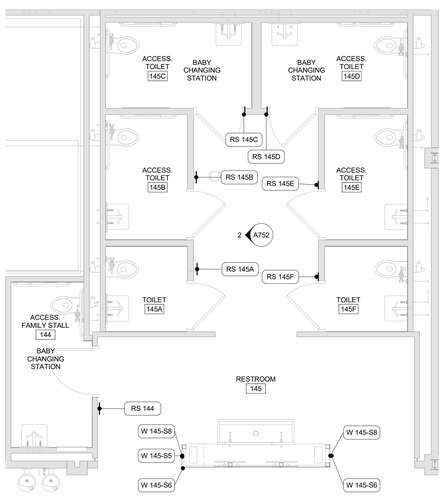
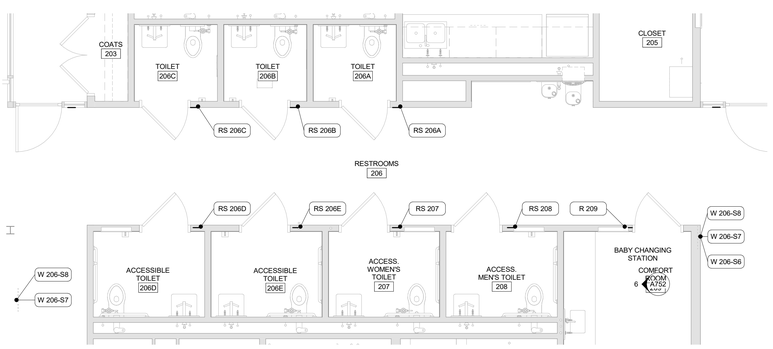


1 LEVEL 1 SIGNAGE PLAN
A751 1" = 10'-0"

2 MEZZANINE LEVEL SIGNAGE PLAN
A751 1" = 10'-0"



3 LEVEL 1 ENLARGED RESTROOM SIGNAGE PLAN
A751 1/4" = 1'-0"



4 MEZZANINE LEVEL ENLARGED RESTROOM SIGNAGE PLAN
A751 1/4" = 1'-0"

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ARCHITECT

Signature

Print Name Dagmara Larsen

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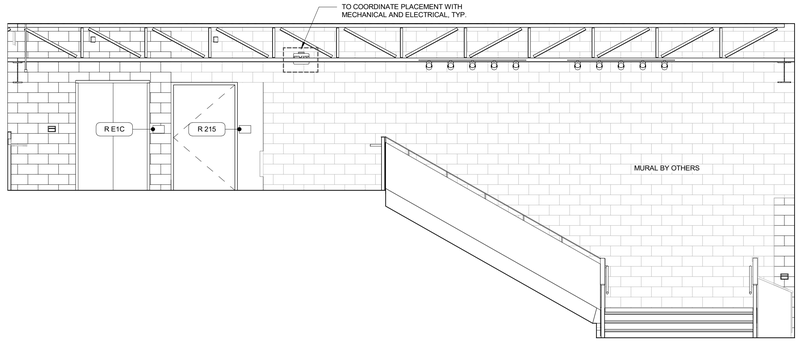
SIGNAGE PLANS

A751



1 RM 213 SOUTH ELEVATION
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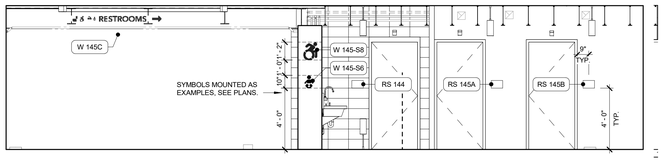

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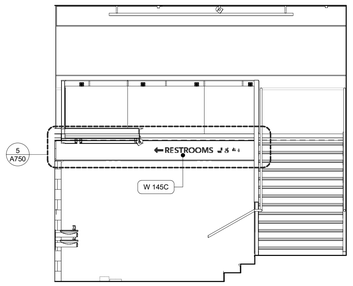

3 W 145 C RESTROOM WAYFINDING TYPICAL ELEVATION
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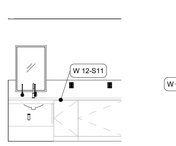

6 12 RECEPTACLE SIGNAGE
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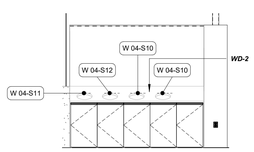

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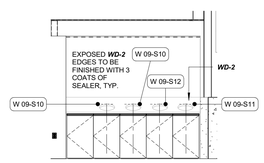

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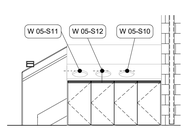

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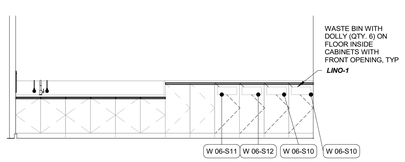

10 06 RECEPTACLE SIGNAGE
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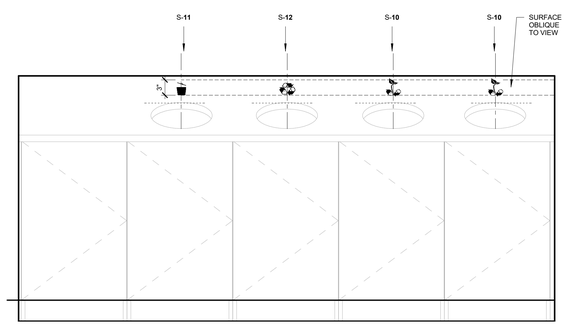

11 TYPICAL WASTE RECEPTACLE
A752 1" = 1'-0"

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MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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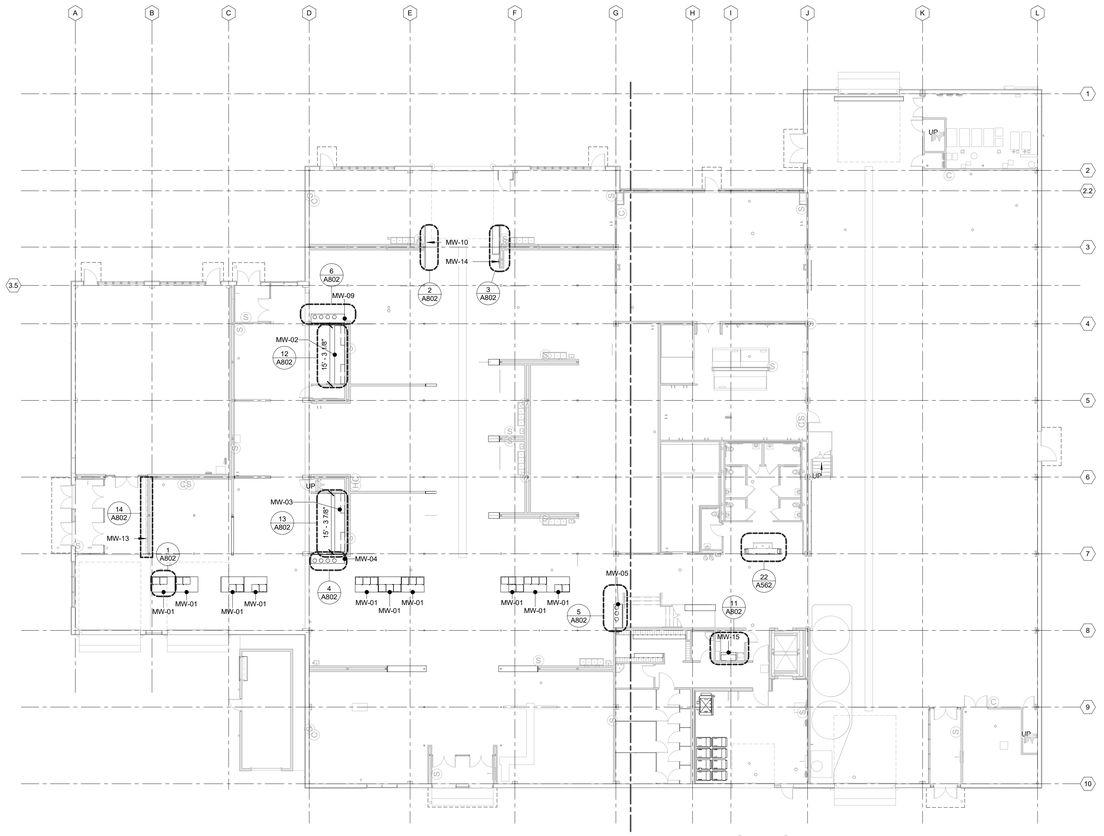
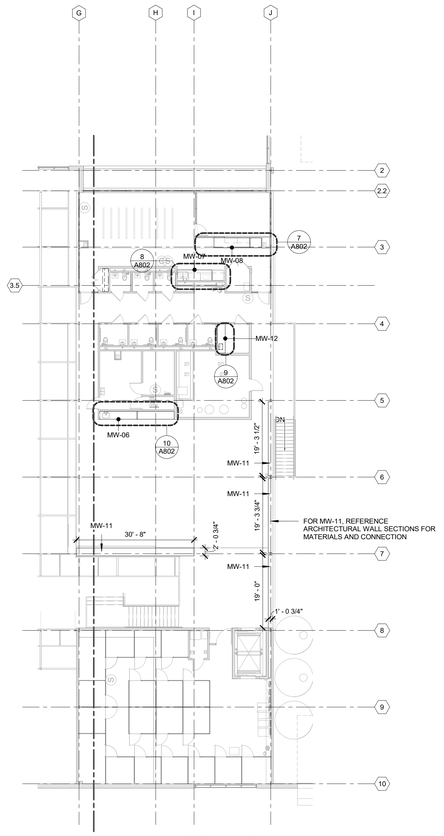
SIGNAGE ELEVATIONS

A752



1 LEVEL 1 MILLWORK PLAN
A801 1/16" = 1'-0"



2 MEZZANINE LEVEL MILLWORK PLAN
A801 1/16" = 1'-0"

MILLWORK GENERAL NOTES

1. REFER TO G000 SHEET AND PROJECT MANUAL SPECIFICATION FOR KEY TO FINISH CODES, MILLWORK ACCESSORIES (***MA-#***) IN CONTRACT (I.E. CABINET HARDWARE, BRACKETS, GROMMETS, ETC).
2. APPLIANCES PROVIDED AND INSTALLED BY GC. VERIFY ALL DIMENSIONS AND CLEARANCES REQUIRED PRIOR TO MILLWORK FABRICATION. COORDINATE ELECTRICAL REQUIRMENTS AND EXACT OUTLET LOCATIONS W/ INSTALLATION GUIDLINES FROM APPLIANCE MANUFACTURERS. SEE ELECTRICAL SHEETS.
3. SEE MECHANICAL FOR PLUMBING FIXTURES, COORDINATE PRIOR TO FABRICATION AND INSTALLATION. PROVIDE BLOCKING IN WALLS FOR WALL MOUNTED PLUMBING FIXTURES, COORDINATE W/ GC, TYP.
4. COORDINATE POWER AND DATA LOCATIONS WITHIN MILLWORK W/ELECTRICAL TYP.
5. SEE LIGHTING DRAWINGS FOR UNDERCABINET LIGHTING LOCATIONS & FIXTURE TYPES.
6. VERIFY DIMENSIONS W/ SITE CONDITIONS, TYP.
7. PROVIDE BLOCKING IN WALLS FOR ALL WALL-MOUNTED MILLWORK, COORDINATE W/ GC, TYP.
8. FLOOR FINISHES TO EXTEND BENEATH MILLWORK U.N.O.
9. INSTALL RUBBER BUMPER AT ALL CABINET DOOR LOCATIONS TO DAMPEN SOUND OF DOOR SHUTTING, TYP.
10. PROVIDE 20% ATTIC STOCK OF INTERIOR CABINET SHELVES FOR BASE UNITS BY SIZE

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MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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LEVEL 1 &
MEZZANINE
MILLWORK
REFERENCE PLANS

A801

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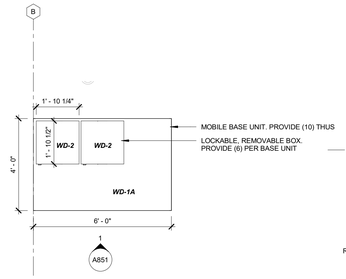
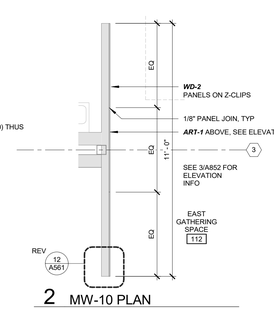


1 MW-01 SHARED RETAIL DISPLAY PLAN
A802 3/8" = 1'-0"



2 MW-10 PLAN
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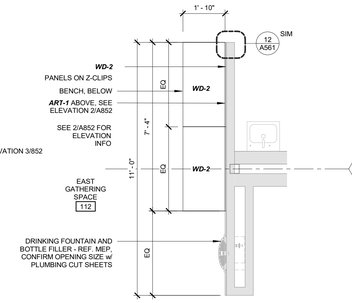

3 MW-14 @ EDUCATIONAL DISPLAY
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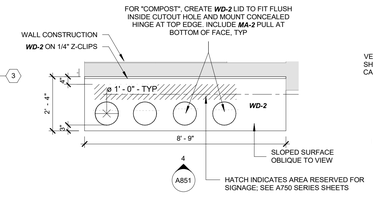

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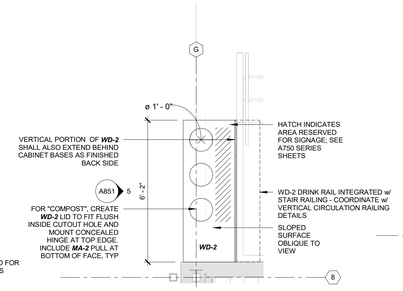
A802 3/8" = 1'-0"

7
A752



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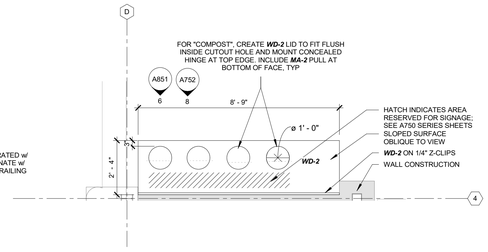

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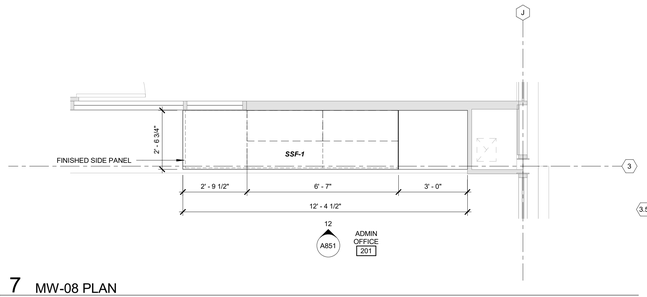

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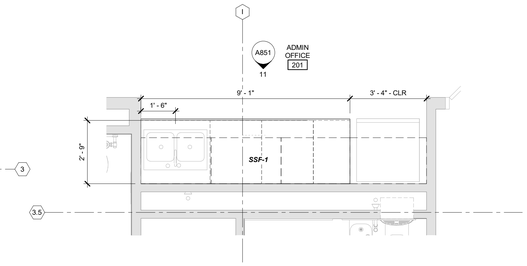

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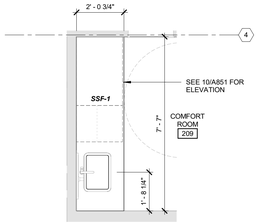

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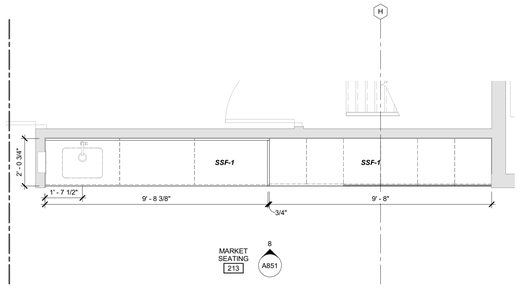

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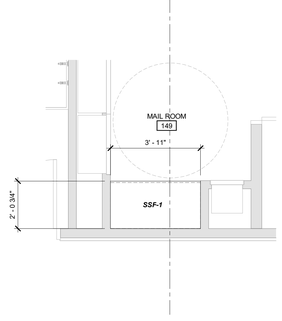

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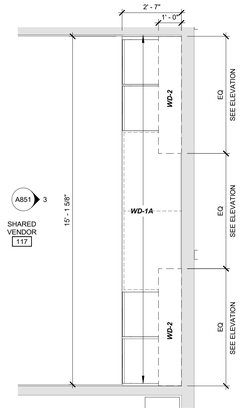

12 MW-02 PLAN
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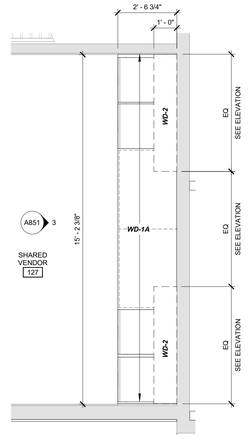

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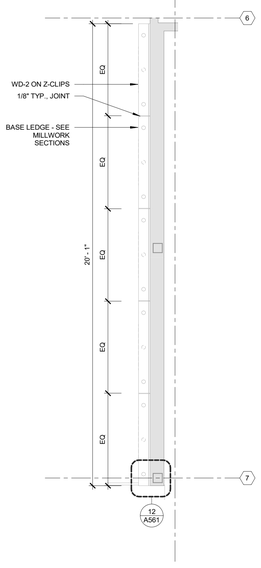

14 MW-13 ENTRY WALL
A802 3/8" = 1'-0"

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ENLARGED MILLWORK PLANS

A802

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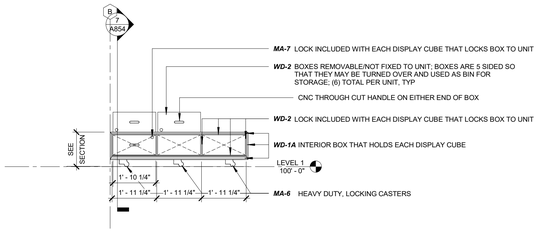
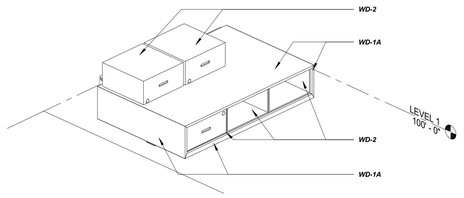
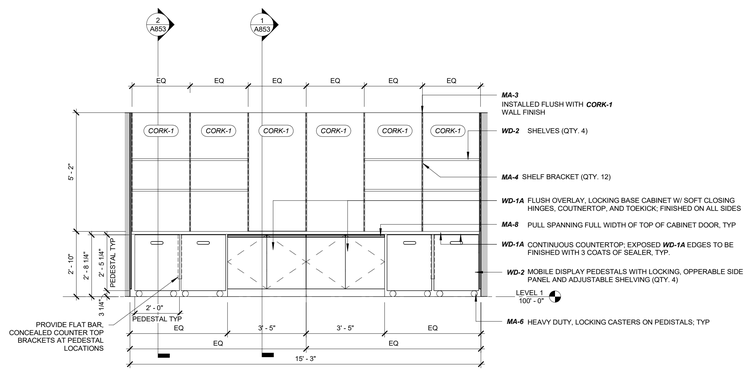


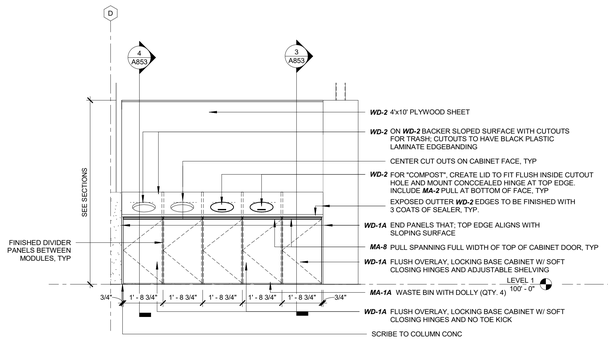
1 MW-01 MOBILE RETAIL DISPLAY ELEVATION
A851 3/8" = 1'-0"



2 MW-01 MOBILE RETAIL DISPLAY PLAN AXON VIEW
A851



3 MW-02 & MW-03 ELEVATION
A851 3/8" = 1'-0"



4 MW-04 ELEVATION
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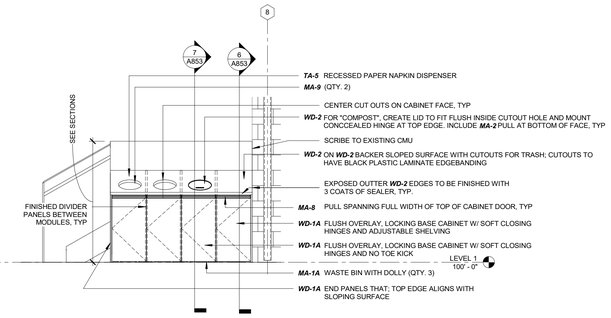

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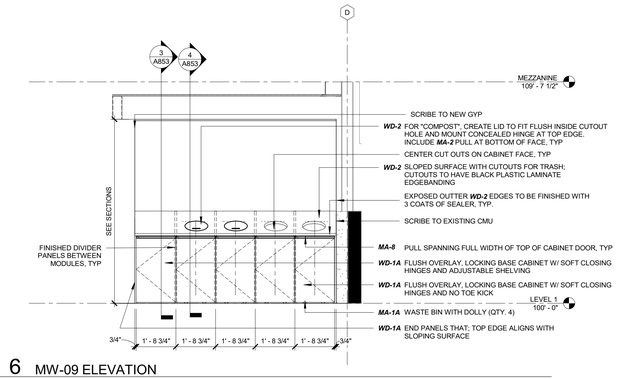
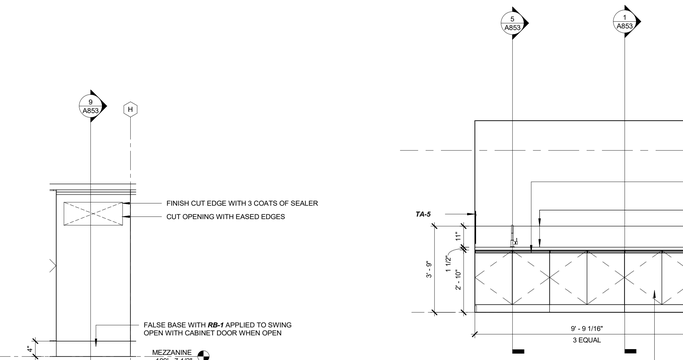
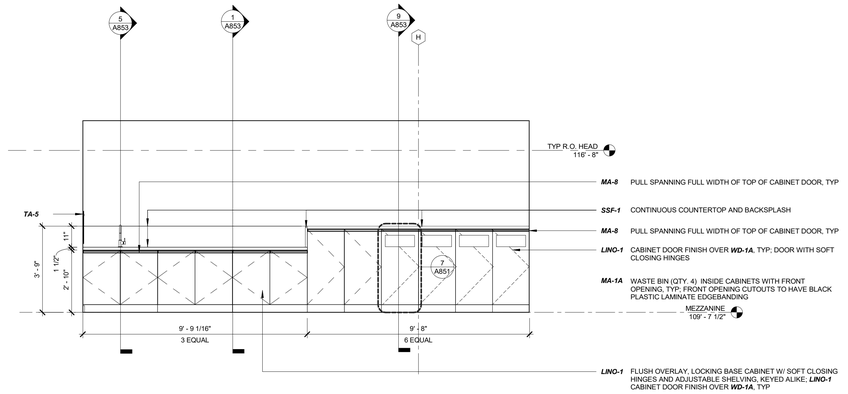


6 MW-09 ELEVATION
A851 3/8" = 1'-0"



7 DETAIL @ WASTE RECEPTACLE CABINET, TYP
A851 3/4" = 1'-0"



8 MW-06 ELEVATION
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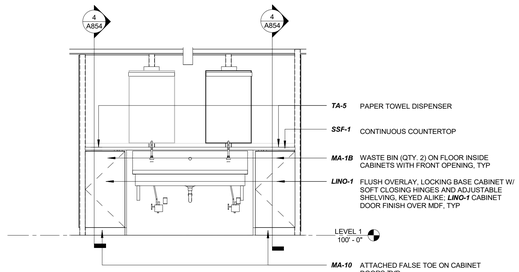
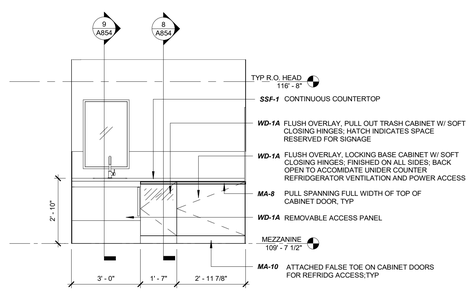


9 MS-13 ELEVATION
A851 3/8" = 1'-0"



10 MW-12 INT ELEVATION
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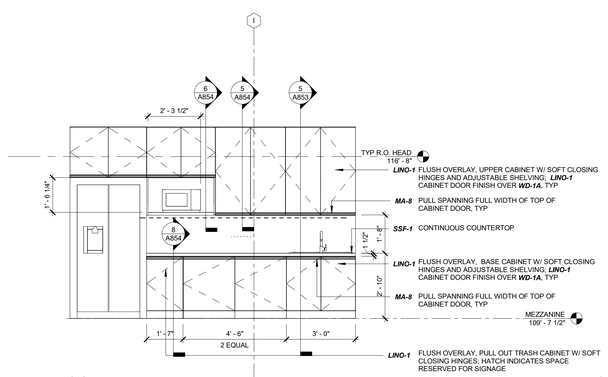

11 MW-07 ELEVATION
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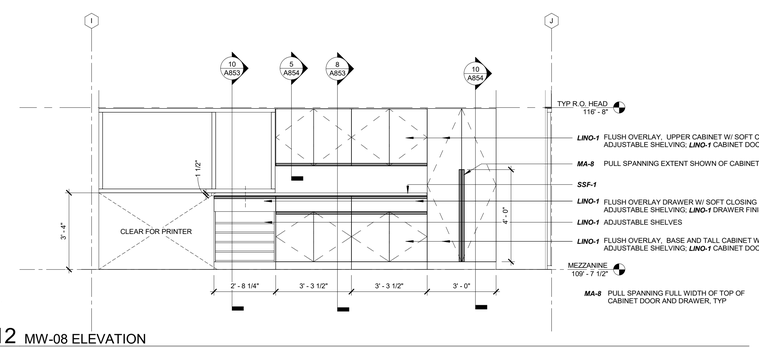

12 MW-08 ELEVATION
A851 3/8" = 1'-0"

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Architect Seal

WISCONSIN
DAGMARA K. LARSEN
13278-5
MINNEAPOLIS MN
ARCHITECT

Signature Dlarsen

Print Name Dagmara Larsen

Date 2023.06.09 **License No** 13278-5

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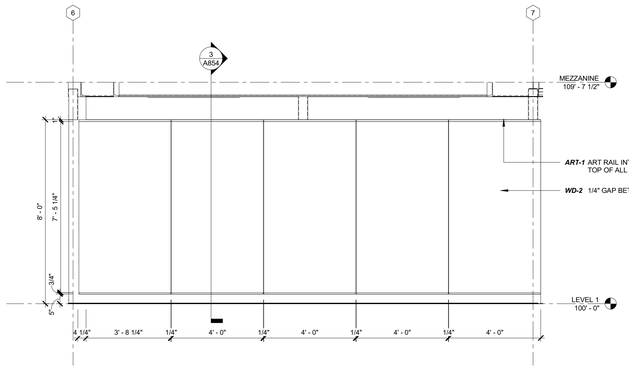
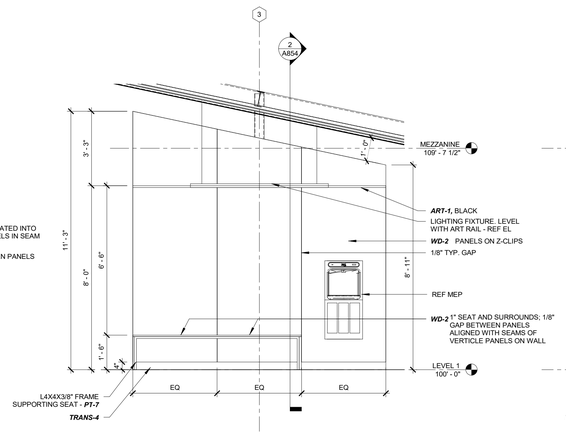
MILLWORK ELEVATIONS

A851



1 MW-13 ELEVATION
A852 3/8" = 1'-0"



2 MW-14 ELEVATION
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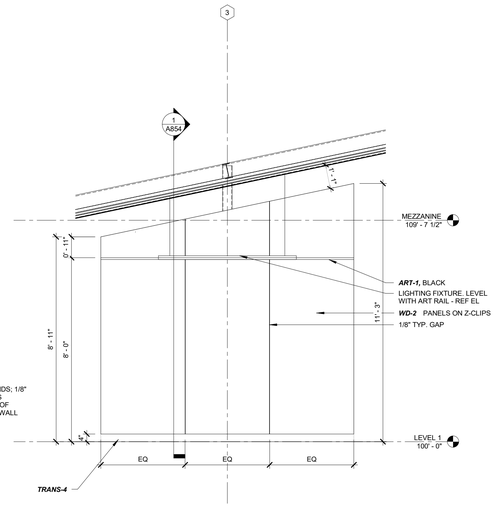
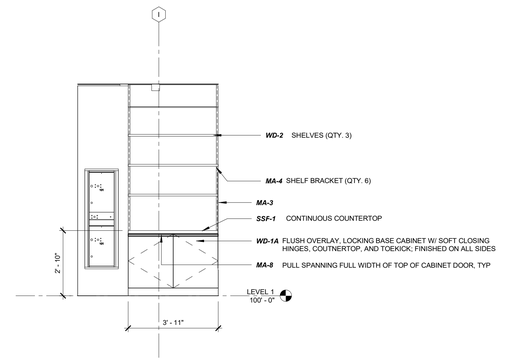


3 MW-10 ELEVATION
A852 3/8" = 1'-0"



4 MW 15 ELEVATION
A852 3/8" = 1'-0"

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MINNEAPOLIS MN
ARCHITECT

Signature _____

Print Name Dagmara Larsen

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MILLWORK ELEVATIONS

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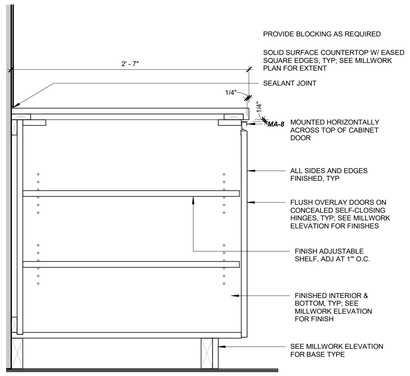
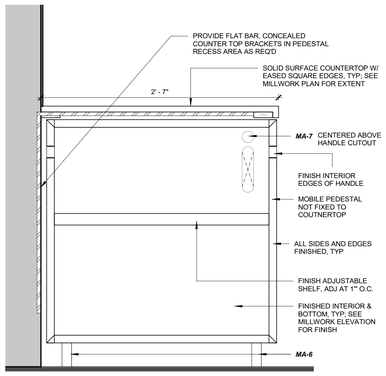
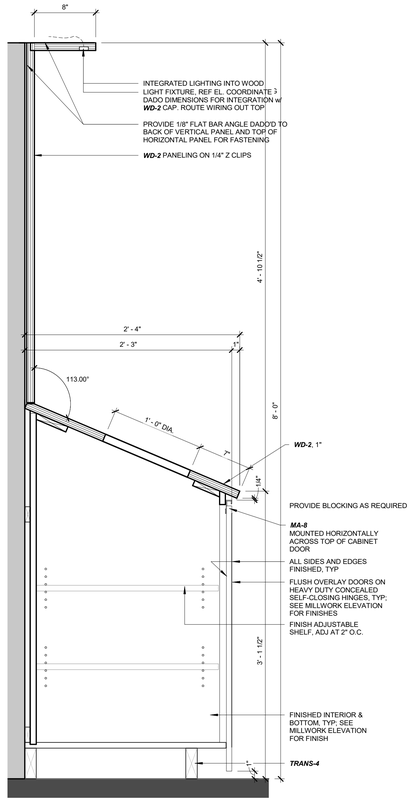


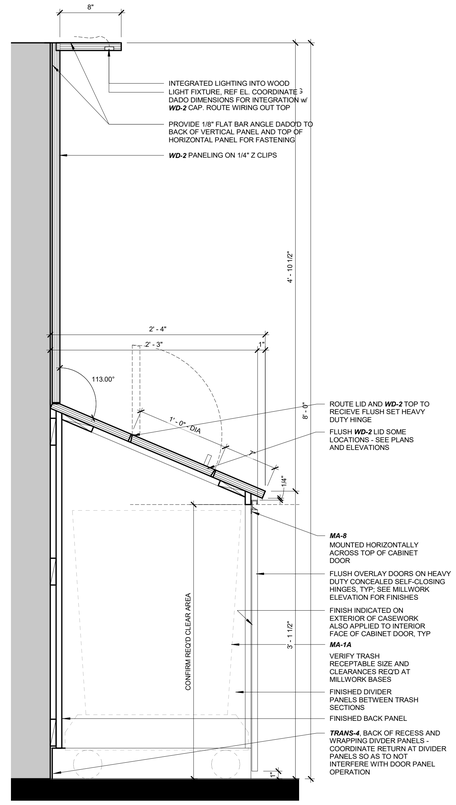
1 SECTION @ BASE CABINET
A853 1 1/2" = 1'-0"



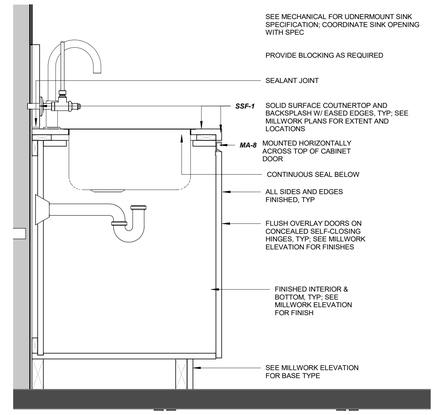
2 SECTION @ MOBILE PEDISTAL
A853 1 1/2" = 1'-0"



3 SECTION @ WASTE ADJACENT STORAGE
A853 1 1/2" = 1'-0"



4 SECTION @ WASTE BIN WITH PANEL
A853 1 1/2" = 1'-0"



5 SECTION @ BASE WITH SINK
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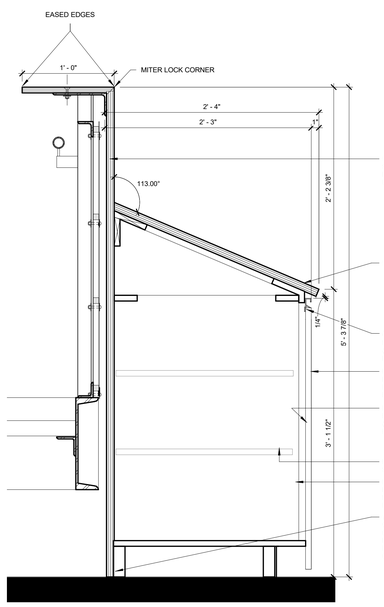

6 SECTION @ ANGLED CABINET STORAGE
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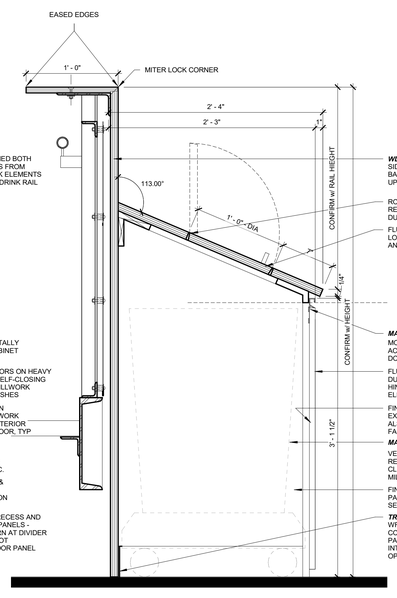
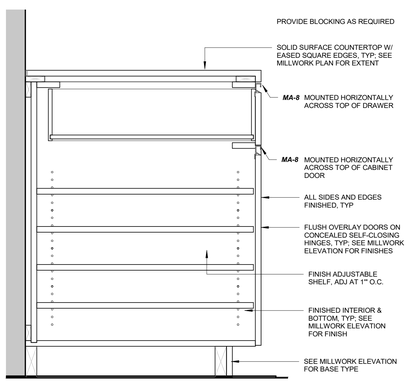
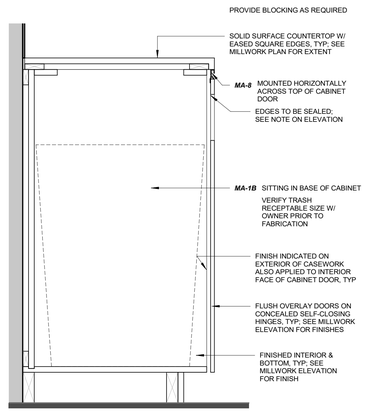


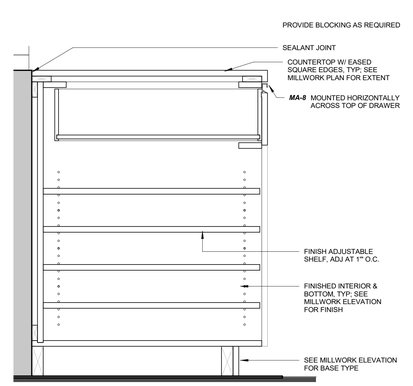
7 SECTION @ WASTE BIN AT STAIR
A853 1 1/2" = 1'-0"



8 SECTION @ BASE CABINET WITH DRAWER
A853 1 1/2" = 1'-0"



9 SECTION @ FRONT OPEN WASTE BIN
A853 1 1/2" = 1'-0"



10 SECTION @ OPEN CABINET WITH SHELVING
A853 1 1/2" = 1'-0"

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13278-5
MINNEAPOLIS
MN
ARCHITECT

Signature

Print Name Dagmara Larsen

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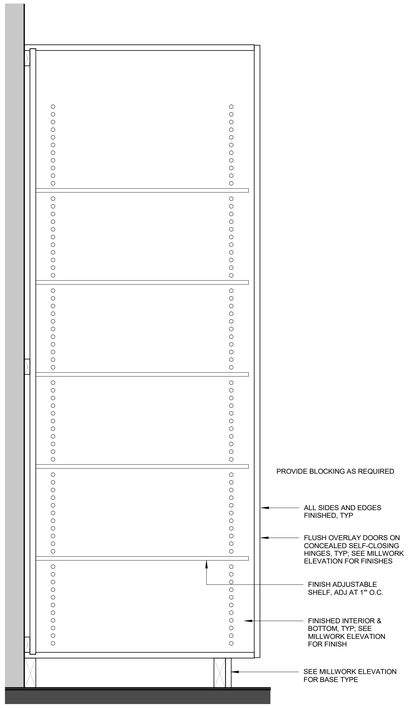
A853



10 SECTION @ TALL CABINET
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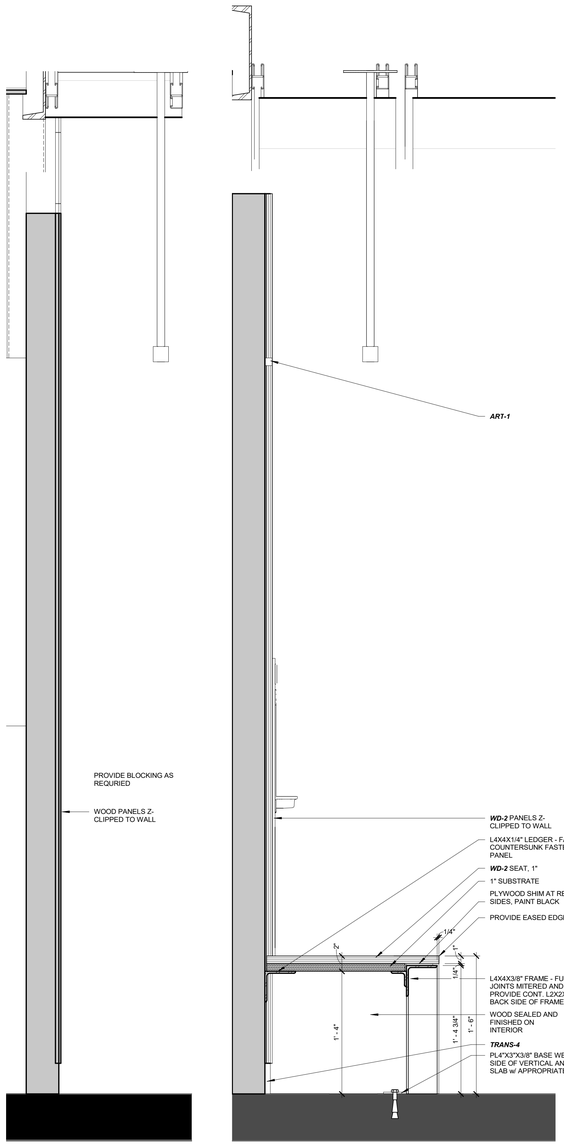
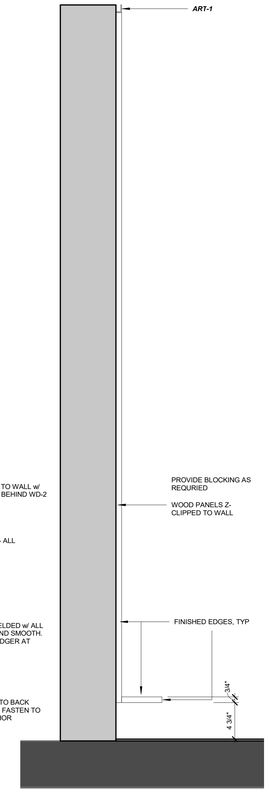


1 SECTION @ DISPLAY
A854 1 1/2" = 1'-0"

2 SECTION @ DISPLAY WITH BENCH
A854 1 1/2" = 1'-0"



3 SECTION @ MAIN ENTRY DISPLAY
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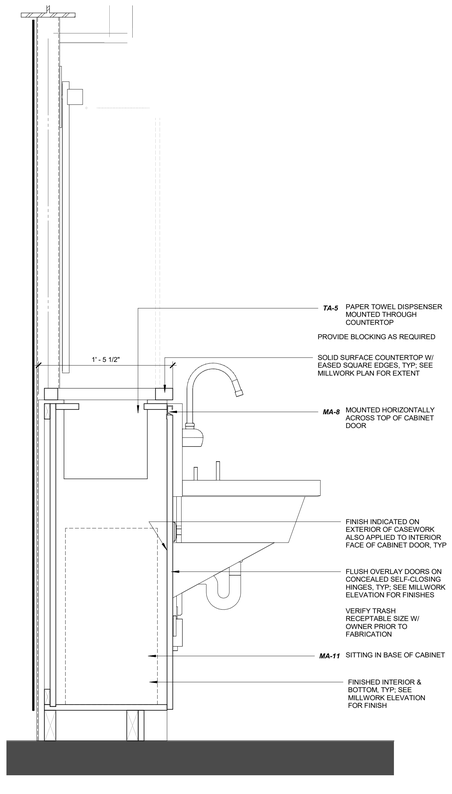

4 SECTION @ RESTROOM WASTE BIN
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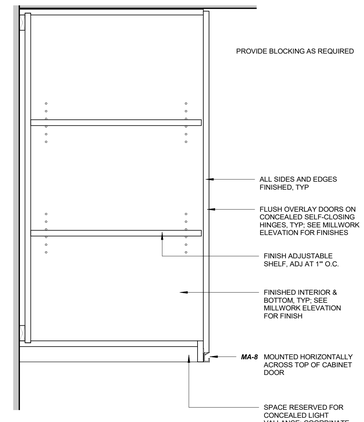

5 SECTION @ UPPER CABINET
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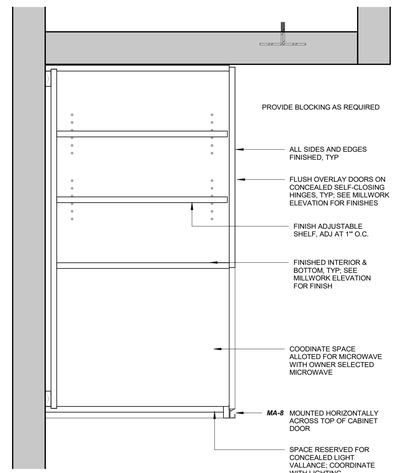

6 SECTION @ CABINET WITH MICROWAVE
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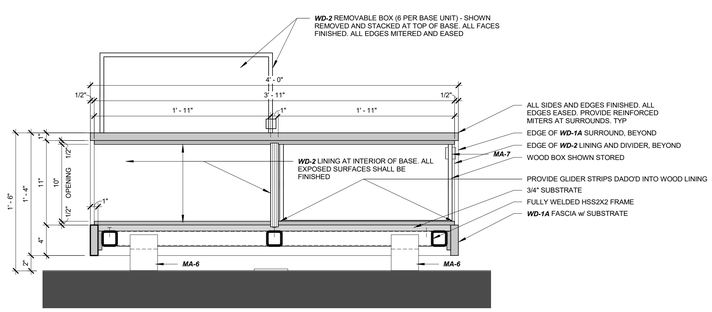

7 SECTION @ MOBILE RETAIL DISPLAY
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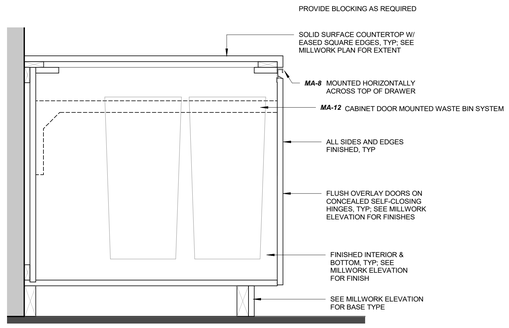

8 SECTION @ PULL OUT WASTE RECEPT.
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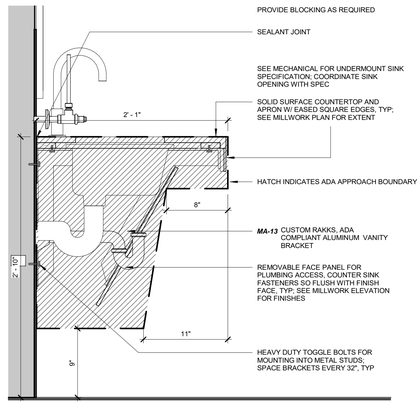

9 SECTION @ COUNTER WITH SINK
A854 1 1/2" = 1'-0"

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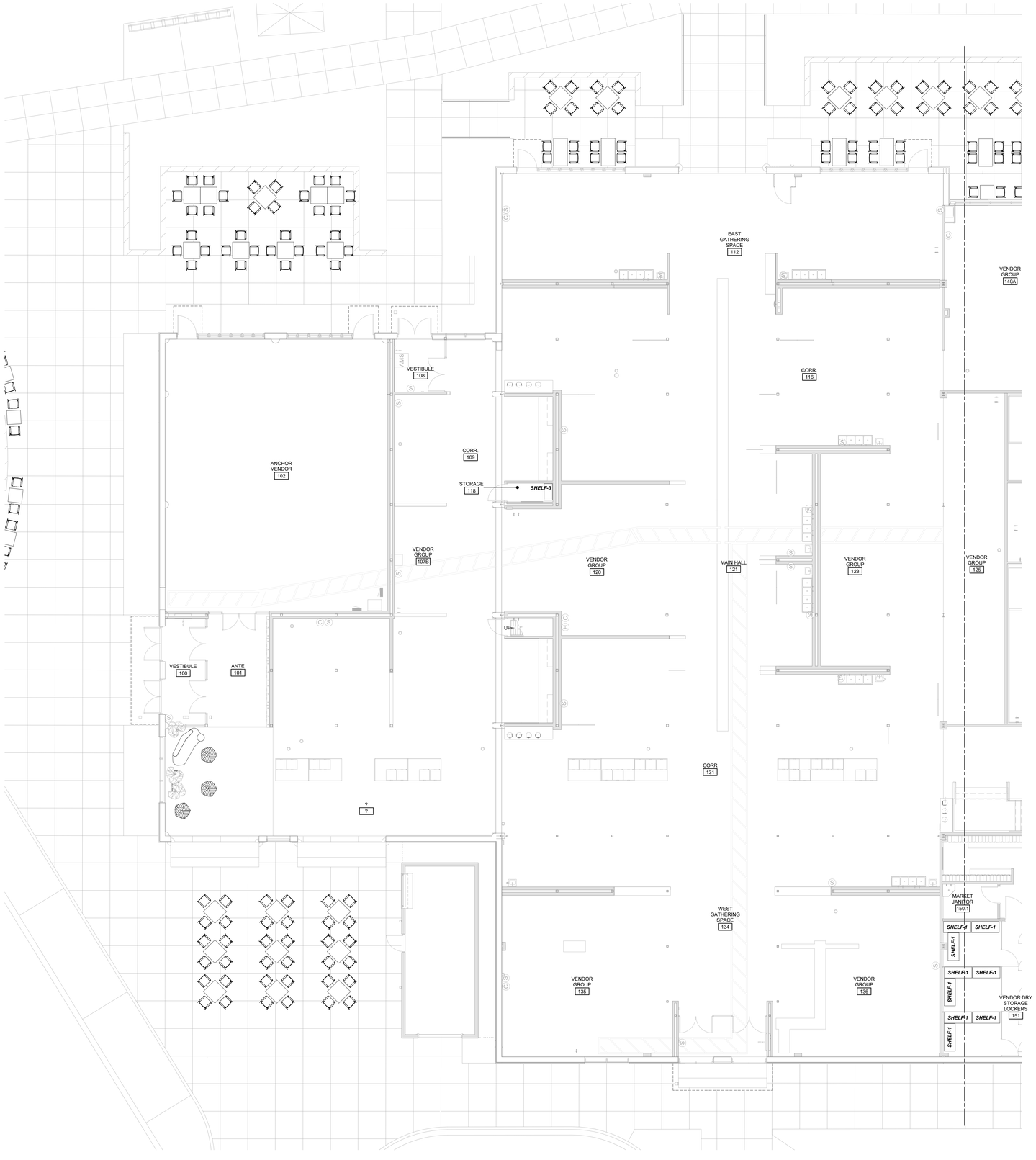

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Boelter Premier

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202 N First St, Madison, WI 53704

Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

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Signature Dlarsen

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Date 2023.06.09 **License No** 13278-5

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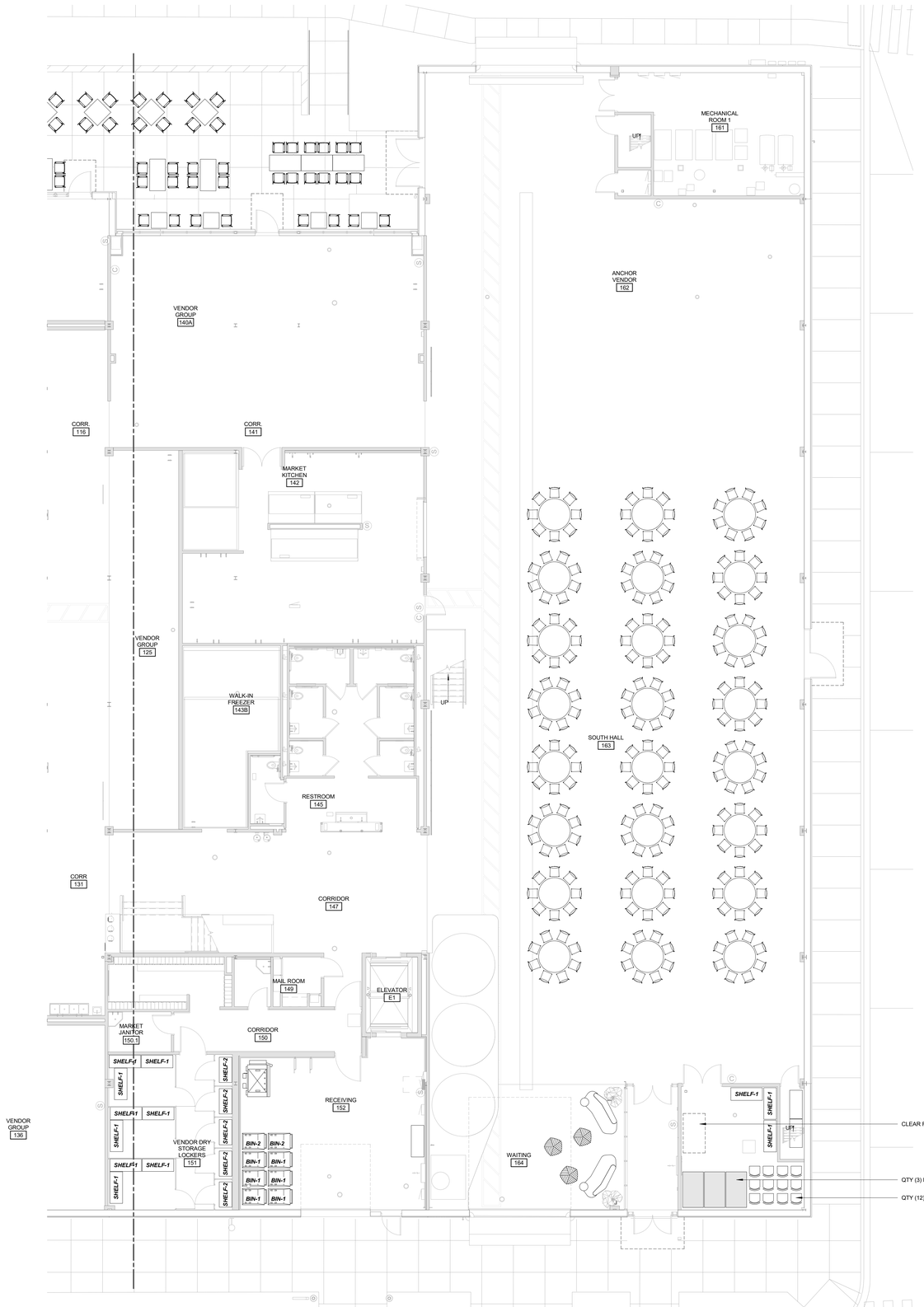
LEVEL 1 FURNITURE PLAN - NORTH - REFERENCE ONLY

A901N



1 LEVEL 1 FURNITURE PLAN - FOR REFERENCE ONLY - SOUTH
A901S 1/8" = 1'-0"

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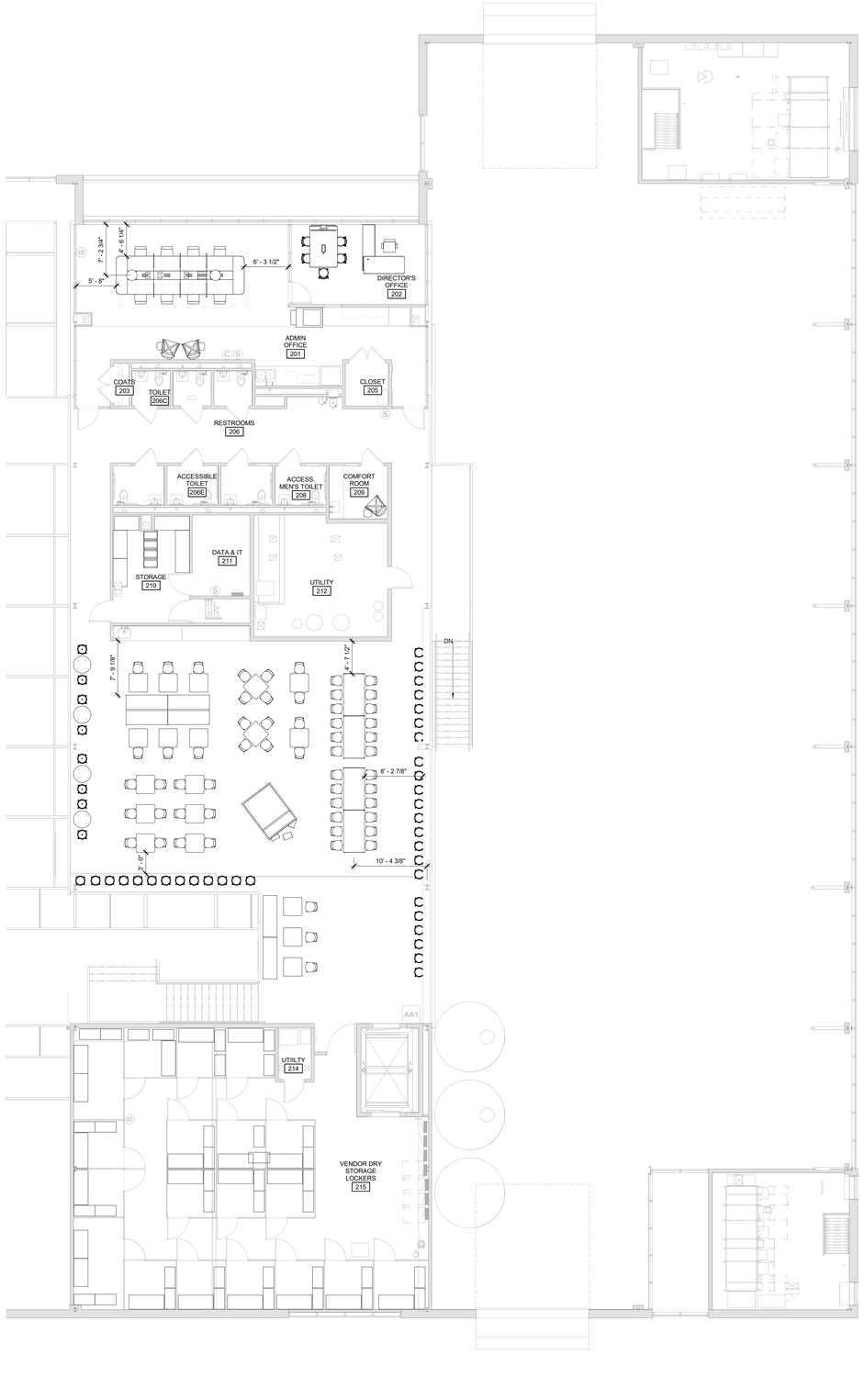
LEVEL 1 FURNITURE PLAN - SOUTH

A901S



1 LEVEL 2 FURNITURE PLAN - FOR REFERENCE ONLY

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MEZZANINE LEVEL FURNITURE PLAN - SOUTH

A902S

LIGHTING SYMBOLS

	RECESSED DOWNLIGHT
	RECESSED ADJUSTABLE DOWNLIGHT
	SURFACE DOWNLIGHT
	SURFACE ADJUSTABLE DOWNLIGHT
	RECESSED TROFFER
	SURFACE TROFFER
	WALL MOUNT
	PENDANT MOUNT LINEAR
	PENDANT MOUNT
	SURFACE LINEAR
	SURFACE STRIP
	CONCEALED LED STRIP / TAPE
	EXTERIOR POLE MOUNT
	FLOOD / ACCENT
	ROUND BOLLARD
	SQUARE BOLLARD
	TRACK
	CEILING MOUNTED FAN WITH CLEARANCE
	EMERGENCY BATTERY UNIT
	EXIT SIGN CEILING MOUNT - ARROW AND FACES AS SHOWN ON PLANS
	EXIT SIGN WALL MOUNT - ARROW AND FACES AS SHOWN ON PLANS
L	WALL MOUNTED EXIT SIGN LOW LEVEL

LIGHTING CONTROL SYMBOLS

S	SINGLE POLE SWITCH
S S	TWO SINGLE POLE SWITCHES UNDER COMMON FACEPLATE
S_2	DOUBLE POLE SWITCH
S_3	3-WAY POLE SWITCH
S_4	4-WAY POLE SWITCH
S_P	SINGLE POLE SWITCOH WITH PILOT LIGHT
S_K	SINGLE POLE KEY OPERATED SWITCH
S_D	DIMMER SWITCH
S_{D3}	DIMMER SWITCH WITH 3-WAY SWITCHING
S_V	VARIABLE INTENSITY CONTROL FOR SURGICAL LIGHT
S_M	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROPERTIES
S_T	TIMER SWITCH
S_{LM}	LOW VOLTAGE MOMENTARY CONTACT SWITCH (TOGGLE STYLE)
	PUSH BUTTON SWITCH
S_{OS}	WALL MOUNTED OCCUPANCY SENSOR SWITCH
OSM	CEILING MOUNTED OCCUPANCY SENSOR
OSM	WALL MOUNTED OCCUPANCY SENSOR
TC	TIME CLOCK
CSM	CONTROL STATION
PC	PHOTOCELL

2015 INTERNATIONAL ENERGY CONSERVATION CODE

1. ALL LIGHTING CONTROLS SHALL COMPY WITH SECTION C405.2 OF THE 2015 IECC.
2. AS REQUIRED BY SECTION C405 ALL LIGHTING SYSTEMS SHALL BE COMMISIONED IN AND COMPLETED IN ACCORDANCE WITH SECTION C408. THE COMMISIONING OF THE LIGHTING CONTROLS SHALL FOLLOW THE MANUFACTURERS INSTRUCTIONS AND BE PERFORMED BY AN APPROVED THIRD PARTY AGENCY.
3. OCCUPANCY SENSORS SHALL BE TESTED TO VERIFY THEY DETECT OCCUPANTS AND CONTROL THE LIGHTS INDICATED ON THE PLANS.
4. AS REQUIRED BY SECTION C408.3.2 THE COMMISSIONING DOCUMENTS DESCRIBED IN SECTION C408 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

ABBREVIATIONS

A, AMP	AMPERE	GEN	GENERATOR
AC	ALTERNATING CURRENT	IG	ISOLATED GROUND.
ACT	ABOVE COUNTER TOP	HOA	HAND - OFF - AUTO
AIC	AMPERE INTERRUPTING CAPACITY	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HPF	HIGH POWER FACTOR
AFG	ABOVE FINISHED GRADE	LED	LIGHT EMITTING DIODE
ATS	AUTOMATIC TRANSFER SWITCH	LS	LIFE SAFETY BRANCH
AF	FRAME RATING IN AMPERES	LLF	LIGHT LOSS FACTOR
AS	SWITCH RATING IN AMPERES	LRC	LIGHTING RELAY CABINET
AT	TRIP RATING IN AMPERES	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
AV	AUDIO VISUAL	MLO	MAIN LUGS ONLY
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	MOCP	MAXIMUM OVER CURRENT PROTECTION
CL	CENTERLINE	(N)	NEW
CEC	CALIFORNIA ELECTRIC CODE	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CLG	CEILING	NEC	NATIONAL ELECTRIC CODE
CR	CRITICAL BRANCH	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CL	CONNECTED LOAD	NL	NIGHT LIGHT
CCT	CORRELATED COLOR TEMPERATURE	NO	NORMALLY OPEN
CRI	COLOR RENDERING INDEX	NTS	NOT TO SCALE
(D)	DEMOLISH EXISTING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
DF	DEMAND FACTOR	OC	OVER CURRENT
DL	DESIGN LOAD	PB	PULL BOX
DC	DIRECT CURRENT	ØPH	PHASE
DPDT	DOUBLE POLE, DOUBLE THROW	PNL	PANEL
DPST	DOUBLE POLE SINGLE THROW	PVC	POLYVINYL CHLORIDE CONDUIT
DIST	DISTRIBUTION	P	POLE
EQ	EQUIPMENT BRANCH	PWR	POWER
(E)	EXISTING TO REMAIN	(R)	RELOCATE EXISTING
EC	EMPTY CONDUIT	RCP	REFLECTED CEILING PLAN
ELEC	ELECTRICAL	RSC	RIGID STEEL CONDUIT
ELEV	ELEVATOR	SPDT	SINGLE POLE, DOUBLE THROW
E, EM	EMERGENCY	SPST	SINGLE POLE, SINGLE THROW
EMT	ELECTRO METALLIC TUBING	SWBD	SWITCHBOARD
EMS	EMERGENCY MANAGEMENT SYSTEM	SWGR	SWITCH GEAR
FA	FIRE ALARM	SYS	SYSTEM
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TP	TAMPER RESISTANT
FACP	FIRE ALARM CONTROL PANEL	TB, TTB	TERMINAL BACKBOARD
FATC	FIRE ALARM TERMINAL CABINET	TC	TERMINAL CABINET
FARA	FIRE ALARM REMOTE ANNUNCIATOR	TEL	TELEPHONE
FBO	FURNISHED BY OWNER	TP	TAMPER PROOF
FPRP	FIRE ALARM PUMP STATUS PANEL	TV	TELEVISION
VCS	FIRE ALARM VOICE COMMUNICATION PANEL		VOLT
FSD	FIRE SMOKE DAMPER	VD	VOLTAGE DROP
FVNR	FULL-VOLTAGE, NON-REVERSING	VFD	VARIABLE FREQUENCY DRIVE
FVR	FULL-VOLTAGE, REVERSING	VA	VOLT AMPERES
FLA	FULL LOAD AMPS (NAME PLATE)	W	WATT
FLC	FULL LOAD CURRENT (NEC)	W	WIRE
(F)	FUTURE	WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTING	XFMR	TRANSFORMER
G, GND	GROUND	XP	EXPLOSION PROOF

LIGHTING DRAWING INDEX

EL001	LIGHTING COVER SHEET
EL002	LUMINAIRE SCHEDULE
EL003	LIGHTING CONTROLS SHEET
EL100	SITE LIGHTING PLAN
EL101	SITE PHOTOMETRIC PLAN
EL102	EXTERIOR LUMINAIRE SCHEDULE AND CUTS
EL103	EXTERIOR LUMINAIRE CUTS
EL121N	LEVEL 1 LIGHTING PLAN - NORTH
EL121S	LEVEL 1 LIGHTING PLAN - SOUTH
EL122N	LEVEL 2 LIGHTING PLAN - NORTH
EL122S	LEVEL 2 LIGHTING PLAN - SOUTH

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LIGHTING COVER SHEET

EL001

LUMINAIRE SCHEDULE

COUNT	MARK	MANUFACTURER	MODEL	ALTERNATE MANUFACTURER	DESCRIPTION	LUMENS	WATTS	WATTS/ FT	CCT	DRIVER TYPE	DIMMING INTERFACE	NOTES
6ea	E1A	GARDCO	P26-48L-500-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + 20' STANDARD POLE	ACUITY, HUBBEL	POLE MOUNTED FULL CUTOFF AREA LIGHT, 20' POLE SINGLE HEAD WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD. IESNA TYPE 3 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	7342	74 W		3000K	INTEGRAL	NON-DIM	DERATE DRIVER TO REDUCE OUTPUT BY 30%
9ea	E1B	GARDCO	P26-48L-500-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + WALL MOUNT	BEGA, WE-EF	EXTERIOR WALL MOUNTED AREA LIGHT WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD FOR PATH AND DRIVE .	7342	74 W		3000K	INTEGRAL	NON-DIM	DERATE DRIVER TO REDUCE OUTPUT BY 30%
10ea	E1C	GARDCO	P26-48L-500-WW-G2-AR-T5-UNV-DD-[FINISH] + 20' STANDARD POLE	ACUITY, HUBBEL	POLE MOUNTED FULL CUTOFF AREA LIGHT, 20' POLE SINGLE HEAD WITH INTEGRAL DRIVER. IESNA TYPE 4 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	9380	74 W		3000K	INTEGRAL	NON-DIM	DERATE DRIVER TO REDUCE OUTPUT BY 30%
10ea	E3	VISION 3	FL1A-[FINISH]-RND-C3-K2-118-0-0-0	BK, HUNZA	EXTERIOR BUILDING MOUNTED MONOPOINT WITH INTEGRAL DRIVER. PROVIDE WIH HEX LOUVER	350	6 W		3000K	INTEGRAL	NON-DIM	
12ea	E5	LIGMAN	TUA-20731-37W-T3-W30-[FINISH]-120/277V + 14' POLE	BEGA, WE-EF	POLE MOUNTED FULL CUTOFF AREA LIGHT, 14' POLE SINGLE HEAD WITH INTEGRAL DRIVER. IESNA TYPE 4 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	2422	37 W		3000K	INTEGRAL	NON-DIM	
6ea	E7	GARDCO	P26-48L-700-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + 20' STANDARD POLE	ACUITY, HUBBEL	POLE MOUNTED FULL CUTOFF AREA LIGHT, 14' POLE SINGLE HEAD WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD. IESNA TYPE 3 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	11224	101 W		3000K	INTEGRAL	NON-DIM	DERATE DRIVER TO REDUCE OUTPUT BY 30%
10ea	E8	LIGMAN	GINO 4 UGI-31641-10WLED-M-W30-FINISH-120/277V-DIM		EXTERIOR WALL MOUNTED SCONCE WITH INTEGRAL DRIVER.	982	10 W		3000K	INTEGRAL	NON-DIM	
11ea	E10	LUMENPULSE	LOG-HO-VOLTAGE-48-30K-10X90-WAM12-FINISH-DIM	GVA, ECOSENSE	WALL MOUNTED LINEAR LED WALL WASH WITH INTEGRAL DRIVER FOR EXTERIOR MURALS.	894/LF	61 W	15.25	3000K	INTEGRAL	0-10V	
98lf	E12	LUMINII	KMW-72S0-30K-F--FC-FINISH-E-FEED + REMOTE DRIVER	KELVIX, LEDLINEAR	EXTERIOR RECESSED LED TAPE AND CHANNEL WITH REMOTE DRIVER. UL WET LOCATION LISTED, DEDICATED FOR ENTRY CANOPY LIGHTING.	160/LF		1.9	3000K	REMOTE	0-10V	
2ea	P1	ZANEEN	WILLY 100 DB-1564-VOLTAGE-SUSPENSION LENGTH (IF > 103")	OR PRE- APPROVED EQUAL	PENDANT MOUNTED 39.4 IN DIAMETER DECORATIVE LUMINAIRE AT GLASS WALL VENDORS	3859	30 W		3000K	CANOPY	NON-DIM	120/277
72lf	P2	ALW	RLP1S-S_LENGTH-LOW-90-3000K-0/10V/S-EXT-FINISH-UNV	SPI, VODE	PENDANT MOUNTED 1" DIA LINEAR LIGHTBAR WITH ROTABLE DISTRIBUTION CHANNEL WITH REMOTE DIMMING DRIVER	574/LF	0 W	6.9	3000K	REMOTE	0-10V	120/277
2ea	P3	LUXX BOX	MATRIX DIRECT/INDIRECT MA-SIZE-SHADE-30-DI-UNV	OR PRE-APPROVED EQUAL	PENDANT MOUNTED DIRECT INDIRECT LINEAR LUMINAIRE IN OFFICES WITH INTEGRAL DIMMING DRIVER.	4000	48 W	0	3000K	INTEGRAL	0-10V	120/277
3ea	P4	iLIGHT TECHNOLOGIES	PLEXINEON RING LUMINIARE S-CIR-CQ 3000-DIAMETER-FINISH-MOUNTING	SPI, VODE	LARGE DIAMETER OPEN RING PENDANT WITH DIRECT VIEW LED SOURCE. PROVIDE WITH REMOTE DIMMING DRIVERS.	6000	80 W		3000K	REMOTE	0-10V	120/277
5ea	P5	AXIS	STENCIL PENDANT STLDI-SLIA-250-DSO-200-LENGTH-90-30-FINISH-UNV-DP-2-MOUNTING	ALW OR PRE-APPROVED EQUAL	PENDANT MOUNTED DIRECT INDIRECT LINEAR LUMINAIRE IN OFFICES WITH INTEGRAL DIMMING DRIVER.	4000	48 W	0	3000K	INTEGRAL	0-10V	120/277
10ea	P6	ALW	CORE 300 C3CP-D-V-D-20-83-30-BF-CUTOUT-FINISH-SUSPENSION	LUMENPULSE, GOTHAM	PENDANT MOUNTED 4.5" DIA. CYLINDER DOWNLIGHT WITH DECORATIVE EXPOSED HEAT SINK.	2000	11 W		3000K	INTEGRAL	0-10V	120/277
40ea	P7	TIVOLI	LSA-B-24-V-30-KAT-12-LENGTH	OR PRE-APPROVED EQUAL	PENDANT MOUNTED DECORATIVE CATENARY LUMINAIRE AT MARKET 'ALLEYS'	91	1 W		3000K	CANOPY	0-10V	120
5ea	P8A	ALW	CORE 300 C3CP-D-V-D-20-83-30-BF-CUTOUT-FINISH-SUSPENSION	LUMENPULSE, GOTHAM	PENDANT MOUNTED 4.5" DIA. CYLINDER DOWNLIGHT WITH DECORATIVE EXPOSED HEAT SINK	2000	30 W		3000K	INTEGRAL	0-10V	120/277
4ea	P8B	ALW	CORE 300 C3CP-D-V-D-20-83-20-BF-CUTOUT-FINISH-SUSPENSION	LUMENPULSE, GOTHAM	PENDANT MOUNTED 4.5" DIA. CYLINDER DOWNLIGHT WITH DECORATIVE EXPOSED HEAT SINK	2000	30 W		3000K	INTEGRAL	ELV	120/277
1ea	P9A	TECH LIGHTING	SYRMA PENDANT 700-TD 0-10V 120/277-SYRP-FINISH-LED930	METAL LUX OR PRE-APPROVED EQUAL	PENDANT MOUNTED 21.5" DIA. METAL FRAME DECORATIVE MODERN FORM WITH INTEGRATED LED	461	30 W		3000K	INTEGRAL	ELV	120/277
1ea	P9B	TECH LIGHTING	SYRMA GRANDE PENDANT 700-TD 0-10V 120/277-SYRGP-FINISH-LED930	OR PRE-APPROVED EQUAL	PENDANT MOUNTED 21.5" DIA. METAL FRAME DECORATIVE MODERN FORM WITH INTEGRATED LED	461	17 W		3000K	INTEGRAL	ELV	120/277
130lf	R1	COLOR KINETICS	EVEN BALANCE WHITE GRAZING 3000K-LENGTH-DIM	MODALIGHT, ECOSENSE	SURFACE MOUNED LINEAR GRAZE LOCATED IN ARCHITECTURAL SLOT LIGHT AT WET WALLS	764	0 W	12.5	3000K	INTEGRAL	NON-DIM	120/277
17ea	R3	WILLIAMS	SQR-F-22-L65-8-30-FRAME-FG125-DIM-UNV-TG	ACUITY, HUBBEL	RECESSED 2x2 TROFFER IN BACK OF HOUSE KITCHEN. UL WET LOCATION LISTED WITH INTEGRAL DIMMING DRIVER.	6538	64 W		3000K	INTEGRAL	0-10V	120/277
39ea	S1	AXIS	SCS-5--3-FL-6-BLK-UNV-DP-1-MOUNTING	ALW, PINNACLE	SURFACE MOUNTED LINEAR STRIP AT VENDOR STALLS	500/LF	0 W	5.6	3000K	INTEGRAL	0-10V	120/277
47lf	S1A	AXIS	SCS-5--3-FL-LENGTH-BLK-UNV-DP-1-MOUNTING	ALW, PINNACLE	SURFACE MOUNTED LINEAR STRIP AT GROCERY	500/LF	0 W	5.6	3000K	INTEGRAL	0-10V	120/277
19ea	S2	WILLIAMS	75R-LENGTH-L_1500/LF-8-30-DIM-UNV	ACUITY, COLUMBIA	SURFACE MOUNTED SEALED WET LOCATION RATED UPLIGHT ABOVE VENDOR STALLS	1500/LF	0 W	11	3000K	INTEGRAL	0-10V	120/277
30ea	S4-2"	WILLIAMS	75R-2-L20-8-30-DIM-UNV	ACUITY, COLUMBIA	SURFACE MOUNT 2' STRIP LIGHT WITH INTEGRAL DRIVER.	1976	32 W		3000K	INTEGRAL	NON-DIM	120/277
48ea	S4-4"	WILLIAMS	75R-4-L50-8-30-DIM-UNV	ACUITY, COLUMBIA	SURFACE MOUNT 4' STRIP LIGHT WITH INTEGRAL DRIVER.	5038	42 W		3000K	INTEGRAL	NON-DIM	120/277
4ea	S5	PHILIPS - DAYBRIGHT	D-W-LENS-E-51L-830-4-UNV	ACUITY, COLUMBIA	SURFACE MOUNT 4' VAPORTIGHT WITH INTEGRAL DRIVER.	5100	50 W		3000K	INTEGRAL	NON-DIM	120/277
140lf	S6	LUMINIII	LL52X2-30K-LENGTH + KLHF + REMOTE DIMMING DRIVER	KELVIX, Q-TRAN	SURFACE MOUNTED LED TAPE AT CRANE IN SOUTH HALL	841/LF	1404 W	10	3000K	REMOTE	0-10V	120/277
284lf	S7	LUMINIII	LLX18X2-RGBW-3K-LENGTH + PLAS + PSDMX-SIZE-24	KELVIX, Q-TRAN	SURFACE MOUNT RGB LINEAR STRIP UPLIGHT AT MEZZANINE WITH REMOTE DIMMING DRIVER.	438	0 W	8.8	3000K	REMOTE	0-10V	120/277
33ea	S8	INTENSE LIGHTING	OB1G2C-L3-30-D10-FINISH-BEAM + LH4_-PFLMB-63	WAC, SISTEMALUX	SURFACE MOUNT ADJUSTABLE MONOPOINT WITH INTEGRAL DIMMING DRIVER.	1650	0 W	14	3000K	INTEGRAL	0-10V	120/277
9ea	S9	PHILIPS	SLIM SURFACE LED; S10R83K22-FINISH-Z10U	ACUITY, COLUMBIA	SURFACE MOUNT LOW PROFILE DOWNLIGHT LOCATED UNDER MEZZANINE WITH INTEGRAL DIMMING DRIVER.	1800	15 W		3000K	INTEGRAL	ELV	120/277
38x4.75lf	S10	KELVIX	2 PARALLEL RUNS OF: DV3K-24V IN (1) CH048R1F-LENGTH-WH-CP-EC + REMOTE POWER SUPPLY	LUMINII, MODALIGHT	SURFACE MOUNTED LED TAPE AND CHANNEL AT INTERIOR POLES.	390/LF	25 W	5.2	3500K	REMOTE	0-10V	120/277
27lf	S11	VODE	707-Z2-SL-LENGTH-MOUNTING-0-RP-AE-2-Z-HO-30-A1-FINISH	OR PRE-APPROVED EQUAL	SURFACE MOUNTED LINEAR LED ASYMETRIC WALL WASH	598			3000K	REMOTE	0-10V	120/277
28lf	S12	KELVIX	SIGNWAVE SW360-LENGTH-WH-E-LENGTH	Q-TRAN, LED LINEAR	SURFACE MOUNTED CUSTOM TBD LED FLEX LIGHTING SYSTEM AT EXISTING FUEL HANDLES. PROVIDE 32'-0" OF FLEX LIGHTING FOR EACH OF (7) LOCATIONS.	184/LF	13 W	3.35	3000K	REMOTE	0-10V	120/277
68lf	S13	LUMINIII	LL72-30K-LENGTH + KMCHF + PS010V-SIZE-24-LIN	KELVIX, QTRAN	SURFACE MOUNTED LED TAPE UNDERCABINET IN OFFICE AREA	300	26 W	1.5	3000K	REMOTE	0-10V	120/277
369ea	T1	INTENSE LIGHTING	ITLP20-L1-308-FINISH-OPTIC-	WAC, SISTEMALUX	TRACK MOUNTED 2.25" DIA. PIVOT LUMINAIRE .	1400	14 W		3000K	INTEGRAL	ELV	120
228ea	T2	INTENSE LIGHTING	ITLP20-L2-308-FINISH-OPTIC-	WAC, SISTEMALUX	TRACK MOUNTED 2.25" DIA. PIVOT LUMINAIRE .	1401	20 W		3000K	INTEGRAL	ELV	120
NA	TA	INTENSE LIGHTING	IS_LENGTH-FINISH WITH LIVE END FEED KIT AND END CAP	WAC, SISTEMALUX	SURFACE MOUNTED TRACK		0 W		3000K		ELV	120
NA	TB	INTENSE LIGHTING	IS_LENGTH-FINISH WITH LIVE END FEED KIT AND END CAP	WAC, SISTEMALUX	SURFACE MOUNTED VERTICAL TRACK		0 W		3000K		ELV	120
11.5lf	UC	LUMINIII	LL72-30K-LENGTH + KMCHF + PS010V-SIZE-24-LIN	KELVIX, Q-TRAN	SURFACE MOUNTED LED TAPE UNDERCABINET IN OFFICE AREA	300	17 W	1.5	3000K	REMOTE	0-10V	120/277
2ea	W1	SONNEMAN	STIX PLUS 279_LENGTH-FINISH	OR PRE- APPROVED EQUAL	SURFACE MOUNTED LED VANITY BAR	525/LF	0 W	8	3000K	REMOTE	NON-DIM	120

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MADISON PUBLIC MARKET

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LUMINAIRE SCHEDULE

EL002

LIGHTING SEQUENCE OF OPERATIONS

A. EXTERIOR

SPACE TYPE	HORIZONTAL ILLUMINANCE (FC)	POWER DENSITY (W/SQ.FT.)	LUMINAIRE TYPES	LAMPING	CONTROLS STRATEGY
Exterior Circulation	0.2-5.0	0.05-0.12	Recessed Downlights Recessed Steplights Wall Sconce	2-50W LED, 3000K	1
Parking/ Driveway Roadway	0.1-2.0	0.01-0.05	Pole Mount	15-50W LED, 3000K	1
Plaza	0.2-5.0	0.05-0.12	Catenary Lighting Recessed Steplights Integrated Lighting	2-50W LED, 3000K	1
Canopy Areas	0.2-2.0	0.05-0.12	Uplighting Wall Sconces Recessed Downlights Accent Lighting	2-25W LED, 3000K	1
Outdoor Event Space	10-20	0.2-0.4	Adjustable Accent Framing Projectors Uplighting	2-25W LED, 3000K	1

EXTERIOR CONTROLS STRATEGY KEY

1. Astronomical clock tied to a programmable lighting control system (PLCS) with low voltage...
   - A fully programmable astronomical clock will be used to control all exterior illumination on... zones. Lighting will be controlled based on the time of day, the time of year and owner input to maximize energy savings.
   - Low voltage control stations will provide manual override and scene selection for after... and special events.

B. INTERIOR

SPACE TYPE	HORIZONTAL ILLUMINANCE (FC)	POWER DENSITY (W/SQ.FT.)	LUMINAIRE TYPES	LAMPING	CONTROLS STRATEGY
Circulation	5-20	0.3-0.5	Pendants Pole Luminaires Catenary Track	LED, 3500K	1
Restrooms	10-20	0.4-0.7	Wall Slot at Wet Wall Recessed Decorative Downlights Vanity	LED, 3500K	2
Seating Areas	5-40	0.4-0.7	Feature Lighting Pendants Accent Lighting	LED, 3500K	1
Market	5-40	0.5-0.8	Decorative Lighting Pendant or Surface Track/Accent Lighting	LED, 3500K	1
Private Offices	20-30	0.35-0.5	Pendant Direct/Indirect Recessed Task Lighting	LED, 3500K	3
Conference, Training & Multipurpose Rooms	25-45	0.5-0.8	Pendant Direct/Indirect Task Lighting Accent Lighting Recessed downlights	LED, 3500K	4
Wellness/Mother's Room	20-35	0.4-0.6	Pendant Direct/Indirect Task Lighting Wall Mounted Accent	LED, 3500K	2
Serving Areas	5-20	0.4-0.7	Pendants LED Tape at Coves Recessed Downlights Wall Sconces	LED, 3500K	1
Event Space/Banquet Hall	25-45	0.5-0.8	Pendant Track Accent Lighting	LED, 3500K	1
Utility/Storage Rooms	8-20	0.3-0.4	Surface Mounted Strip	LED, 3000K	5
Electrical, Mechanical, & Server/IDF Rooms	20-40	0.4-0.6	Surface Mounted Strip	LED, 3000K	6
Kitchen	50	0.6-0.9	Recessed Downlights Task Lighting	LED, 3500K	6

INTERIOR CONTROLS STRATEGY KEY

1. Programmable Lighting Control System (PLCS) and daylight sensors near glazing with low... switch overrides.
   - Manual ON via switch or PLCS time clock activation.
   - Lighting will be controlled by a PLCS, which will be capable of 24 hours a day, 7 day a...
   - The PLCS will control the kelvin temperature based on time-schedule, with manual... occupants in spaces where tunable lighting is specified.
   - Lighting will be broken out into zones according to the proximity to daylight and task. Photocells will turn OFF lighting when/where daylight is available.
   - Automatic OFF with timer sweep. Lighting will "flash or blink" to signal "OFF" with local switches to reset timer on programmed timed intervals.
   - Low voltage switch stations will provide manual override and scene selection for special events. Room Controls are connected to PLCS for networked control ability. Final keypad... be confirmed with selected control manufacturer.
   - Night scenes will be programmed for afterhours and overnight schedules to create internal "glow" in key areas.
2. Dual Technology occupancy sensor.
   - Dual technology occupancy sensors will turn lighting ON when motion is detected. Sensors keep lighting ON while motion is detected.
   - Time-out settings will range from 30 seconds to 60 minutes and will be initially set at 15 minutes.
   - Lighting will turn OFF when area is vacant via occupancy sensor.
   - Sensor uses "smart" technology to automatically adjust the time delay and sensitivity for optimal performance and energy savings.
   - Lighting will be controlled independent of any centralized lighting control system.
3. Wall mounted occupancy sensor with integral photocell.
   - Wall mounted occupancy sensors provide dimming and allow for manual ON/OFF, with automatic reset to the OFF position (Vacancy Mode).
   - Light sensor will dim and/or turn OFF zones in room when ambient daylight provides 25 foot-candles at desktop.
   - Sensor uses "smart" technology to adjust the time delay and sensitivity for optimal performance and energy savings.
   - Room Controls are connected to PLCS for networked control ability.
4. Occupancy and daylight sensors with programmable low voltage dimming multi-button...
   - Manual ON via wall box scene control station, with dimming.
   - Lighting will be controlled via preset wall box control station for individual zone control.
   - Lighting control system will allow for individual room control and whole room control for partitioned...
   - Occupancy sensors keep lighting ON while motion is detected.
   - Light sensor will turn OFF switch legs in room when ambient daylight provides 25FC at tabletop.
   - Manual OFF via wall box control stations, and/or Automatic OFF via Occupancy Sensor when room is left vacant.
   - Sensor uses "smart" technology to adjust the time delay and sensitivity for optimal performance and energy savings.
   - Room Controlled is connected to PLCS for networked control ability.
   - Final keypad configuration will be confirmed with selected control manufacturer.
5. Electronic timer with manual on/off.
   - Programmable electronic Timer Switches provide manual ON/manual OFF/Auto OFF control with audible and visual warning signals. The timers will be located at standard switch locations.
   - Lighting will "flash or blink" to signal "OFF" with local low voltage timer switches to reset timer on programmed timed intervals.
   - Timers will be set at 1 hour initially.
   - Lighting will be controlled independent of any centralized lighting control system.
6. Toggle switch for manual on/off.
   - Standard toggle switch provide manual ON/manual OFF for safety reasons

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MADISON PUBLIC MARKET SCENE CONFIGURATION

CONTROL STATION & PROGRAMMABLE LIGHTING CONTROL SYSTEM

Interior Lighting

Control Type: Programmed Lighting Control Panel with Low Voltage Control Stations, Occupancy Sensors and Photocells

Zone	Descriptions	Load Type	Dimming
z13	S2 Uplights	LED	
z14	T2/TB north hall vertical Track	LED	
z15a	T2/TA South Hall East track	LED	
z15b	T2/TA South Hall Center track	LED	
z15c	T2/TA South Hall west track	LED	
z16a	P4 South hall west	LED	
z16b	P4 South hall center	LED	
z16c	P4 South hall east	LED	
z17	S6 South Hall LED Tape Rail Accent	LED	
z18	S7 Mezzanine Uplights	LED	
z19	S8 Mezzanine Downlights	LED	
z20	P2 Mezzanine Pendants	LED	
z21	T1/TA Mezzanine Track	LED	
z22	P6 Mezzanine Pendants	LED	
z23	S1 North Hall Level 1	LED	
z24	T1/TA North Hall Level 1 General Track	LED	
z25	S10 North Hall Circulation	LED	
z26	P7 Alley lighting	LED	
z27	S1 and S10 Vestibule Lighting	LED	
z28	P8B Mezzanine Restroom Hall	LED	
z29	S1A Bathroom Corridor Lighting	LED	
z30	S9 west passage btw halls	LED	
z31	T2/TA North Hall Level 2 Track	LED	
z32	T2/TA South Hall South track	LED	
z33	P9 South Hall Waiting Feature Pendant	LED	
z34	S11 trash station feature lighting	LED	
z35	S12 LED Tape Feature lighting	LED	

Scene Description	Scene 1 PREP	Scene 2 DAYTIME	Scene 3 EVENING	Scene 4 LATE NIGHT	Scene 5 OVERNIGHT	ON ALL ON	OFF ALL OFF
LABEL	PREP	DAY	EVE	LATE	NITE	ON	OFF
Zone 'z13'	OFF	50%	80%	80%	100%	100%	OFF
Zone 'z14'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z15a'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z15b'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z15c'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z16a'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z16b'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z16c'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z17'	OFF	50%	90%	90%	OFF	100%	OFF
Zone 'z18'	OFF	50%	90%	90%	OFF	100%	OFF
Zone 'z19'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z20'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z21'	OFF	90%	90%	90%	OFF	100%	OFF
Zone 'z22'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z23'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z24'	100%	90%	90%	90%	OFF	100%	OFF
Zone 'z25'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z26'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z27'	100%	90%	90%	90%	100%	100%	OFF
Zone 'z28'	100%	90%	90%	50%	30%	100%	OFF
Zone 'z29'	100%	90%	90%	50%	30%	100%	OFF
Zone 'z30'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z31'	100%	50%	90%	50%	30%	100%	OFF
Zone 'z32'	100%	50%	90%	50%	OFF	100%	OFF
Zone 'z33'	OFF	90%	90%	90%	OFF	100%	OFF
Zone 'z34'	100%	90%	90%	90%	OFF	100%	OFF
Zone 'z35'	OFF	90%	90%	90%	OFF	100%	OFF

Sequence of Operations

Automatic ON via PLCS or with manual override via low voltage control stations.
Lighting will be controlled by a PLCS, which will be capable of 24 hours a day, seven day a week, operation.
Low voltage control stations provide staff with manual override via scene select and dimming.
Lighting will be broken out into multiple zones according to the function of the space.
Manual OFF via wall box control stations, and/or Time Schedule.
PLCS to provide overnight time schedule control
Lighting will "flash or blink" to signal "OFF" with local switches to reset timer on 2hr timed intervals.
Control stations to be locked with PIN code to permit Staff only to operate Control Stations.

NOTES:

Light levels may need to be adjusted based on exact room conditions
Provide "Digital Slide Dimmers" for each zone on second page of touch screen

TIME SCHEDULE PROGRAMMING (Owner to confirm)

Operating hours – 9 am – 2am.

DESCRIPTION	HOURS	SCENE/LABEL
OPEN	9:00am-11:00am	1/PREP
DAY	11:00am- DUSK	2/DAY
DUSK	DUSK-10pm	3/EVE
EVENING	10pm-2am	4/LATE
CLOSE	2am-3am	1/PREP
OVERNITE	3am to OPEN	5/NITE

MADISON PUBLIC MARKET SCENE CONFIGURATION

CONTROL STATION & PROGRAMMABLE LIGHTING CONTROL SYSTEM

Exterior Lighting

Control Type: Programmable Breakers with Astronomical Time-Clock

Zone	Descriptions	Load Type	Dimming
z1	E1A,C Parking Lot Lights	LED	NON-DIM
z2	E7 Fuel Station Lights	LED	NON-DIM
z3	E5 Plaza Lights	LED	0-10v
z4	E5 Bike Lot Lights	LED	0-10v
z5	NOT USED		
z6	E3 canopy monopoints	LED	NON-DIM
z7	E8 Sconces	LED	0-10v
z8	E9 Sconces	LED	NON-DIM
z9	E10 Mural Lighting	LED	0-10v
z10	E11 Vendor Sign Lighting	LED	TBD
z11	E12 Canopy Lighting	LED	TBD
z12	E13 Main Signage Lighting	LED	0-10v

Scene Description	Scene 1 DAY	Scene 2 EVENING	Scene 3 OVERNIGHT	OFF ALL OFF
LABEL	DAY	DUSK	NITE	OFF
Zone 'z1'	OFF	ON	ON	OFF
Zone 'z2'	OFF	ON	ON	OFF
Zone 'z3'	OFF	ON	ON	OFF
Zone 'z4'	OFF	ON	ON	OFF
Zone 'z6'	OFF	ON	ON	OFF
Zone 'z7'	OFF	ON	OFF	OFF
Zone 'z8'	OFF	ON	ON	OFF
Zone 'z9'	OFF	ON	ON	OFF
Zone 'z10'	OFF	ON	OFF	OFF
Zone 'z11'	OFF	ON	ON	OFF
Zone 'z12'	OFF	ON	OFF	OFF

Sequence of Operations - Exterior

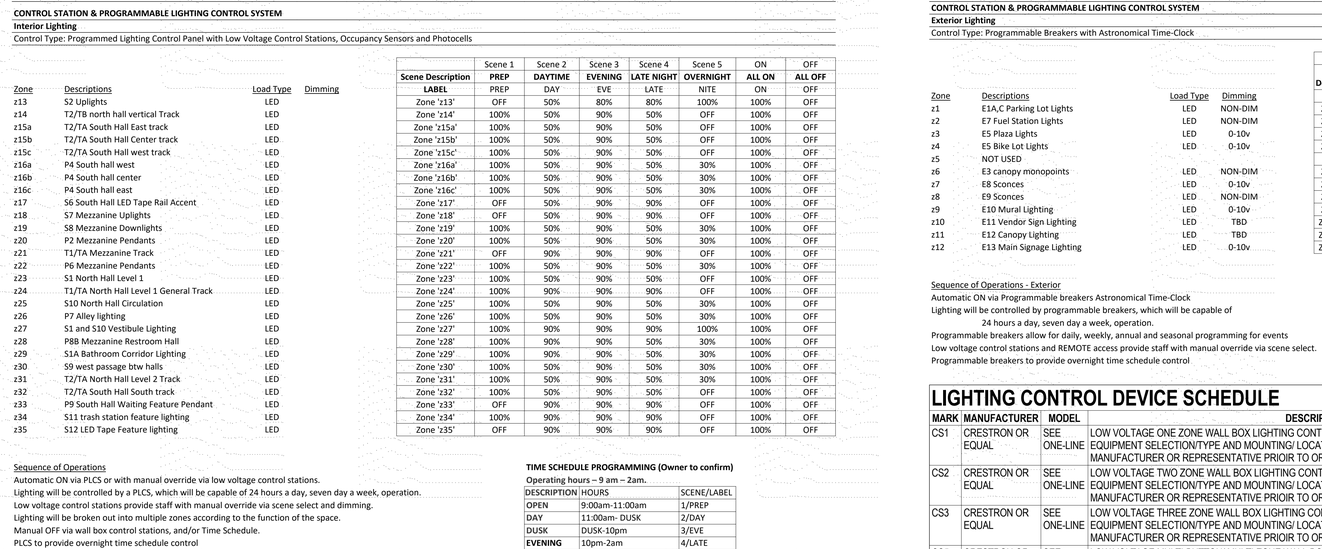
Automatic ON via Programmable breakers Astronomical Time-Clock
Lighting will be controlled by programmable breakers, which will be capable of 24 hours a day, seven day a week, operation.
Programmable breakers allow for daily, weekly, annual and seasonal programming for events
Low voltage control stations and REMOTE access provide staff with manual override via scene select.
Programmable breakers to provide overnight time schedule control

TIME SCHEDULE PROGRAMMING (Owner to confirm)

SCENE	HOUR
DAY	30 MIN after DAWN-30 MIN before DUSK
EVENING	30 MIN before DUSK-MIDNIGHT
OVERNITE	MIDNIGHT-30 MIN after DAWN

LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	FINISH
CS1	CRESTRON OR EQUAL	SEE ONE-LINE	LOW VOLTAGE ONE ZONE WALL BOX LIGHTING CONTROL STATION WITH RAISE/ LOWER. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
CS2	CRESTRON OR EQUAL	SEE ONE-LINE	LOW VOLTAGE TWO ZONE WALL BOX LIGHTING CONTROL STATION WITH RAISE/ LOWER. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
CS3	CRESTRON OR EQUAL	SEE ONE-LINE	LOW VOLTAGE THREE ZONE WALL BOX LIGHTING CONTROL STATION WITH RAISE/ LOWER. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
CS5	CRESTRON OR EQUAL	SEE ONE-LINE	LOW VOLTAGE MULTI-BUTTON/ MULTI-ZONE WALL BOX LIGHTING CONTROL STATION WITH RAISE/ LOWER. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
Cx	CRESTRON OR EQUAL	NA	CONTROLS MANUFACTURER TO PROVIDE ADVANCED COMMISSIONING SERVICES AND ON-SITE TRAINING FOR FACILITIES PERSONNEL AND STAFF. TRAINIG TO TAKE PLACE 60-90 DAYS AFTER OWNER OCCUPIES BUILDING, AND INCLUDE FOLLOWUP VISIT TO FINE-TUNE LIGHTING CONTROLS, DIMMED LEVELS AND PROGRAMMED SCENES.	NA
D	TBD	TBD	ONE-BUTTON DIMMER SWITCH. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
D3	TBD	TBD	ONE-BUTTON 3-WAY TOGGLE SWITCH. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	
OS1	CRESTRON OR EQUAL	SEE ONE-LINE	WALL BOX MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ONE ZONE CONTROL. PROGREAM FOR VACANCY MODE. FINAL EQUIPMENT SELECTION/ TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOR TO ODER.	WHITE
OS3	CRESTRON OR EQUAL	SEE ONE-LINE	CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
PC2	CRESTRON OR EQUAL	SEE ONE-LINE	CEILING MOUNTED DAYLIGHT SENSOR FOR USE WITH LOCAL ROOM CONTROL OR PROGRAMMABLE LIGHTING CONTROL PANEL. FINAL EQUIPMENT SELECTION/ TYPE AND MOUNTING/ LOCATION AND QUANTITIES MUST BE REPRESENTATIVE PRIOR TO ORDER.	WHITE
PLCP	CRESTRON OR EQUAL	SEE ONE-LINE	PROGRAMMABLE LIGHTING CONTROL PANEL ENCLOSURE FOR DIMMABLE RELAY MODULES. FINAL EQUIPLMENT SELECTION/TYPE AND MOUNTING/LOCATION MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOR TO ORDER.	TBD
PROC	CRESTRON OR EQUAL	SEE ONE-LINE	LIGHTING CONTROL PPROCESSOR THAT PROVIDES PROGRAMMABLE CONTROL OVER PLCP. PROVIDE WITH POWER SUPPLY. PROCESSOR TO PROVIDE BACNET INTERFACE, INTERNET CONNECTION, GRAPHIC CONTROL STATION, BATTERY BACKUP, AND ASTRONOMICAL TIME CLOCK. FINAL EQUIPLMENT SELECTION/TYPE AND MOUNTING/LOCATION MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOR TO ORDER.	TBD
S	TBD	TBD	ONE-BUTTON TOGGLE SWITCH. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE
T	TBD	TBD	ON/OFF PROGRAMMABLE ELECTRONIC TIMER SWITCH. TIME OUT RANGES FROM 5 MINUTES TO 12 HOURS.	WHITE
TS	CRESTRON OR EQUAL	SEE ONE-LINE	LOW VOLTAGE MULTI-BUTTON/ MULTI-ZONE WALL BOX LIGHTING CONTROL STATION WITH RAISE/ LOWER. FINAL EQUIPMENT SELECTION/TYPE AND MOUNTING/ LOCATION AND QUANTITY MUST BE CONFIRMED WITH MANUFACTURER OR REPRESENTATIVE PRIOIR TO ORDER	WHITE



NETWORKED LIGHTING CONTROL SYSTEM

SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DISTRIBUTION PANELS AND SYSTEM

NOTES:

1. "CRESNET" CABLE:
   (1) PAIR #18AWG,
   (1) TWISTED PAIR 22AWG
   W/SHIELD (BY E.C.)
   NON-PLENUM PN: CRESNET-NP-TL
   PLENUM PN: CRESNET-P-TL
2. DMX CABLE:
   BELDEN STANDARD 9729
   OR EQUAL
   (BY E.C.)
3. CABLE:
   (1) TWISTED PAIR 18AWG
   (1) SHIELD
   (BY E.C.)
4. CABLE:
   CAT5E ETHERNET
5. SUITABLE GAUGE WIRE TO MEET LOAD REQUIREMENTS

MAXIMUM CABLE LENGTH EQUATION:

$$L < \frac{40{,}000}{R \times P}$$

Where L = Maximum Length of run in feet from power source
R = 6 Ohms for Cresnet Certified wire or
1.6 Ohms for Cresnet High Power Certified wire
P = Cresnet Power usage of entire run

Example: A single run with (4) CNX-B6 Keypads, (4) GLS-SIM, (4) GLS-ODT-C-2000 (Sensor) has a total Cresnet Power usage of P = 20 Watts. Using standard Cresnet cable R = 6 the maximum wire length would be 333 feet. Using High Power Cresnet R= 1.6 the maximum wire length would be 1250 feet.

***ALL PHYSICAL DEVICE LOCATIONS TO BE COORDINATED WITH ARCHITECT.

LENGTH OF CRESNET WIRING RUNS ARE LIMITED TO # OF DEVICES AND CRESNET POWER DRAW. DAISY CHAIN AND OR STAR TOPOLOGIES ARE PERMITTED TO SUIT INSTALLATION NEEDS. EACH HOME RUN NOT TO EXCEED 20 CRESNET DEVICES. USE THE CALCULATOR SHOWN TO DETERMINE MAXIMUM WIRE RUN LENGTH. POWER SUPPLIES CAN BE ADDED TO INCREASE LENGTH OF HOME RUNS.

1 EL003 — LIGHTING CONTROL ONE-LINE DIAGRAM
1" = 1'-0"

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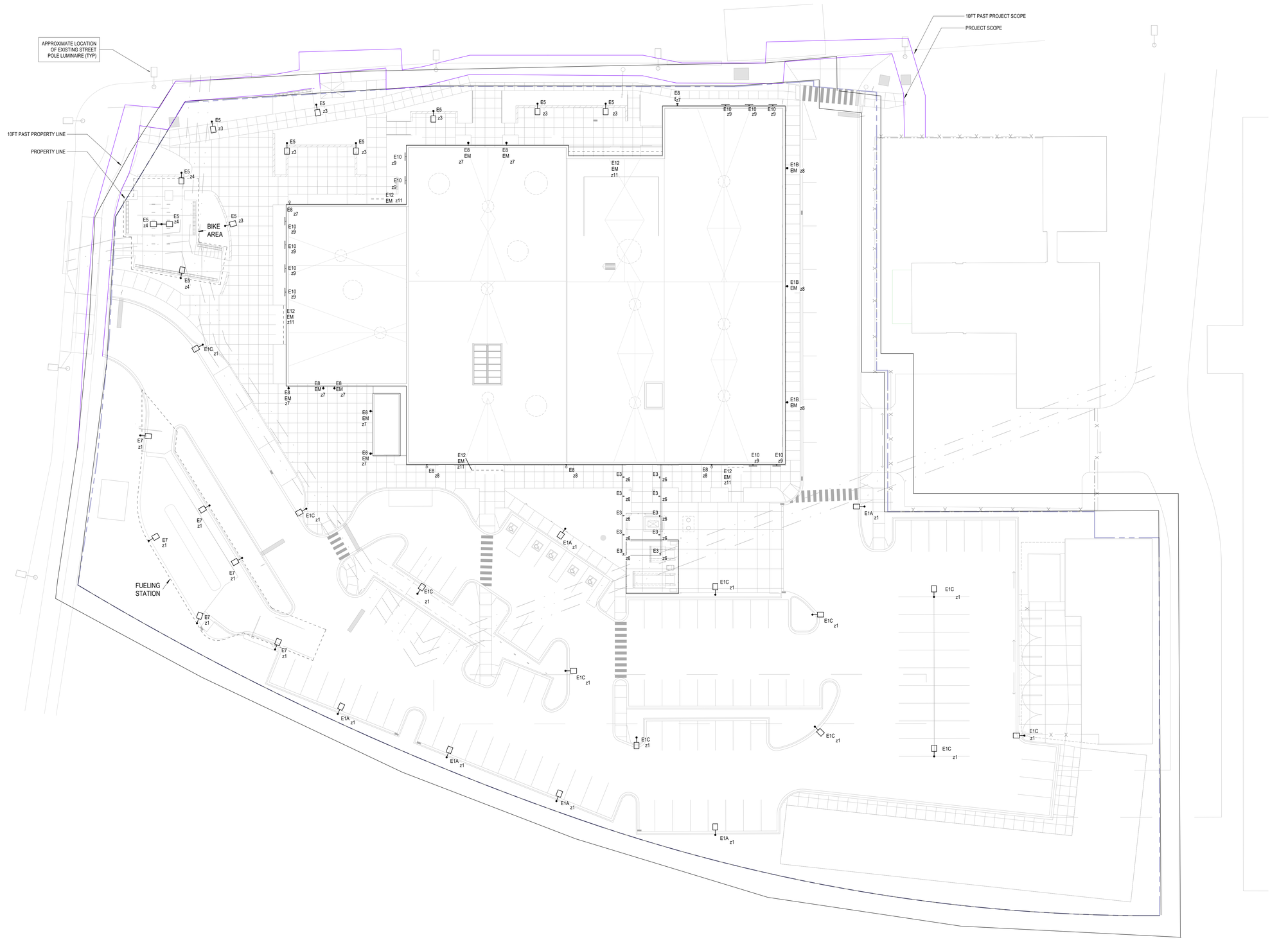
LIGHTING CONTROLS SHEET

EL003



GRAPHIC SCALE

0 20 40 60 80

N

1 EL100 SITE PLAN
1" = 20'-0"

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SITE LIGHTING PLAN

EL100

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CALCULATIONS OCCUR ON THE GROUND (0 FEET ABOVE GRADE) UNLESS OTHERWISE NOTED

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
VEHICLE USE AREA - TRUCK LOADING	Illuminance	Fc	1.39	2.4	0.6	2.32
VEHICLE USE AREA - NORTHWEST DRIVEWAY	Illuminance	Fc	1.33	2.8	0.3	4.43
VEHICLE USE AREA - NORTHEAST DRIVEWAY	Illuminance	Fc	1.31	2.6	0.4	3.28
PEDESTRIAN AREA - TRASH	Illuminance	Fc	0.93	1.7	0.5	1.86
PEDESTRIAN AREA - SOUTHWEST WALK	Illuminance	Fc	2.01	4.2	0.4	5.03
PEDESTRIAN AREA - NORTHWEST PLAZA	Illuminance	Fc	1.86	5.1	0.4	4.65
PEDESTRIAN AREA - NORTHEAST PLAZA	Illuminance	Fc	1.97	3.5	0.8	2.46
PEDESTRIAN AREA - LOT WALKWAYS	Illuminance	Fc	1.10	2.3	0.4	2.75
PARKING AREA	Illuminance	Fc	1.35	3.9	0.3	4.50
HIGHER ILLUMINANCE REC'D - FUEL STATION	Illuminance	Fc	5.31	7.0	2.1	2.53
HIGHER ILLUMINANCE REC'D - BIKE AREA	Illuminance	Fc	2.98	5.1	1.2	2.48
BOUNDARY - PROPERTY LINE	Illuminance	Fc	0.38	1.3	0.0	N.A.
BOUNDARY - PROJECT SCOPE	Illuminance	Fc	0.32	1.4	0.0	N.A.
BOUNDARY - 10FT PAST PROPERTY LINE	Illuminance	Fc	0.15	0.5	0.0	N.A.
BOUNDARY - 10FT PAST PROJECT SCOPE	Illuminance	Fc	0.12	0.5	0.0	N.A.

LPD Area Summary			
Label	Area	Total Watts	LPD
SITE	104242	4725.835	0.045

GRAPHIC SCALE
0 20 40 60 80

N

1 EL101 SITE PLAN - PHOTOMETRICS
1" = 20'-0"

Architecture and Interiors
MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer
Salas O'Brien
2901 Metro Drive. Suite 225.
Bloomington, MN 55425 | 651.379.9121

Civil Engineer
Vierbicher
999 Fourier Dr. Suite 201.
Madison, WI 53717 | 608. 826. 0532

Landscape Architect
Ken Saiki Design
1110 S. Park St.
Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV
IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
Madison, WI 53562

Lighting Design
Mazzetti, Inc.
1999 Broadway, Suite 2205
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design
Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 20190006.00

MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

100%CONSTRUCTIONDOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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SITE PHOTOMETRIC PLAN

EL101

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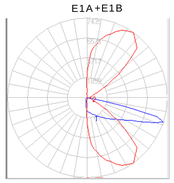
LUMINAIRE SCHEDULE - EXTERIOR

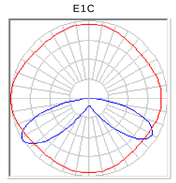
MARK	MANUFACTURER	MODEL	DESCRIPTION	LAMP	LUMENS	WATTS	WATTS/ FT	CCT	MOUNTING	NOTES
E1A	GARDCO	P26-48L-500-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + 20' STANDARD POLE	POLE MOUNTED FULL CUTOFF AREA LIGHT, 20' POLE SINGLE HEAD WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD. IESNA TYPE 3 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	LED	7342	74 W		3000K	20' A.F.F., AIMED AT 0	DERATE DRIVER TO REDUCE OUTPUT BY 30%
E1B	GARDCO	P26-48L-500-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + WALL MOUNT	EXTERIOR WALL MOUNTED AREA LIGHT WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD FOR PATH AND DRIVE .	LED	7342	74 W		3000K	16'8" A.F.F., AIMED AT 0	DERATE DRIVER TO REDUCE OUTPUT BY 30%
E1C	GARDCO	P26-48L-500-WW-G2-AR-T5-UNV-DD-[FINISH] + 20' STANDARD POLE	POLE MOUNTED FULL CUTOFF AREA LIGHT, 20' POLE SINGLE HEAD WITH INTEGRAL DRIVER. IESNA TYPE 4 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	LED	9380	74 W		3000K	20' A.F.F., AIMED AT 0	DERATE DRIVER TO REDUCE OUTPUT BY 30%
E3	VISION 3	FL1A-[FINISH]-RND-C3-K2-118-0-0-0	EXTERIOR BUILDING MOUNTED MONOPOINT WITH INTEGRAL DRIVER. PROVIDE WIH HEX LOUVER	LED	350	6 W		3000K	SURFACE MOUNTED TO LOADING CANOPY APPROX. 16' A.F.F., AIMING VARIES	
E5	LIGMAN	TUA-20731-37W-T3-W30-[FINISH]-120/277V + 14' POLE	POLE MOUNTED FULL CUTOFF AREA LIGHT, 14' POLE SINGLE HEAD WITH INTEGRAL DRIVER. IESNA TYPE 4 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	LED	2422	37 W		3000K	14' A.F.F., AIMED AT 0	
E7	GARDCO	P26-48L-700-WW-G2-AR-T3-UNV-DD-HIS-[FINISH] + 20' STANDARD POLE	POLE MOUNTED FULL CUTOFF AREA LIGHT, 14' POLE SINGLE HEAD WITH INTEGRAL DRIVER AND INTERNAL HOUSING SIDE SHIELD. IESNA TYPE 3 DISTRIBUTION. FOUNDATION DETAIL BY STRUCTURAL ENGINEER.	LED	11224	101 W		3000K	14' A.F.F., AIMED AT 0	DERATE DRIVER TO REDUCE OUTPUT BY 30%
E8	LIGMAN	GINO 4 UGI-31641-10WLED-M-W30-FINISH-120/277V-DIM	EXTERIOR WALL MOUNTED SCONCE WITH INTEGRAL DRIVER.	LED	982	10 W		3000K	8' A.F.F., AIMED AT 0	
E10	LUMENPULSE	LOG-HO-VOLTAGE-48-30K-10X90-WAM12-FINISH-DIM	WALL MOUNTED LINEAR LED WALL WASH WITH INTEGRAL DRIVER FOR EXTERIOR MURALS.	LED	894/LF	61 W	15.25	3000K	WALL MOUNTED AT T.O. PARAPET, AIMED TOWARDS BLDG	
E12	LUMINII	KMW-72S0-30K-F--FC-FINISH-E-FEED + REMOTE DRIVER	EXTERIOR RECESSED LED TAPE AND CHANNEL WITH REMOTE DRIVER. UL WET LOCATION LISTED, DEDICATED FOR ENTRY CANOPY LIGHTING.	LED	160/LF		1.9	3000K	RECESSED MOUNTED TO ENTRY CANOPIES APPROX 8' A.F.F., AIMED AT 0	

SCHEDULE NOTES:
- ALL EXTERIOR LIGHTING TO BE CONTROLLED BY ASTROMICAL TIME CLOCK.
- SEE ATTACHMENT FOR FULL LIGHTING CUTSHEET PACKAGE WITH EXTERIOR FIXTURES.

E1A+E1B



E1C



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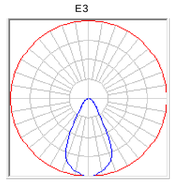

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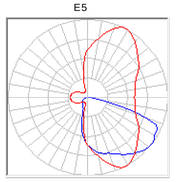

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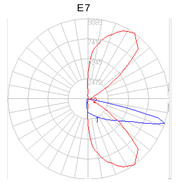

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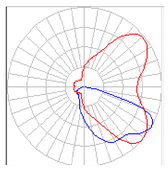
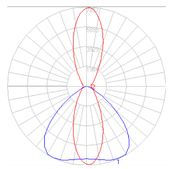


E9

NO LONGER USED

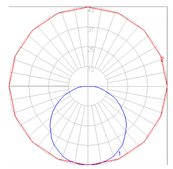
E10



E11

EXTERIOR SIGNAGE

E12



E13

EXTERIOR SIGNAGE

E1A,B,C

GARDCO by Signify

Site & Area
PureFory
P26 medium area light

Gardco PureForm LED area medium P26 features a sleek, low profile design and optimal performance. PureForm area medium is designed to achieve maximum pole spacing, with lumen output up to 28,900 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project:
Location:
Cat.No:
Type:
Lumens: Qty:
Notes:

Ordering guide — example: P26-64L-800-NW-G2-AR-3-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color – Generation	Mounting	Distribution	Voltage
P26 PureForm area medium, 26"	48L 48 LEDs (3 modules)	400 400mA 500 500mA 600 600mA 700 700mA	WW-G2 Warm White 3000K, 70CRI Generation 2 NW-G2 Neutral White 4000K, 70CRI Generation 2 CW-G2 Cool White 5000K, 70CRI Generation 2 WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 BW-G2 Balanced White 3500K 80CRI Generation 2 AM-G2 Direct Amber (590nm) Generation 2 [13]	AR Arm Mount standard[1] The following mounting kits must be ordered separately (See accessories) SF Slip Fitter Mount [1] (fits to 2 ½" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM Retrofit arm mount kit [1]	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, rotated left 90° AFR-270 Auto Front Row, rotated right 270° BLC Back Light Control BLC-90 Back Light Control rotated at 90° BLC-270 Back Light Control rotated at 270°	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60HZ) HVU 347-480V (50/60HZ)
	64L 64 LEDs (4 modules)	600 600mA 700 700mA 800 800mA				
	80L 80 LEDs (5 modules)	700 700mA 800 800mA 900 900mA				

Options

Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (by others)[2] DCC Dual Circuit Control[14] FAWS Field Adjustable Wattage Selector [11] SW Interface module for SiteWise [12] LLC Integral wireless module [11] [14] BL Bi-level functionality [1,5] **DynaDimmer** Automatic Profile Dimming CS50 Security 50% Dimming, 7 hours [14] CM50 Median 50% Dimming, 8 hours [14] CS30 Security 30% Dimming, 7 hours [14] CM30 Median 30% Dimming, 8 hours [14]	IMR3 Integral with #3 lens [9] IMR7 Integral with #7 lens [9]	PCB Photocontrol Button [15] TLR5 Twist Lock Receptacle 5 Pin [6] TLR7 Twist Lock Receptacle 7 Pin [6] TLRPC Twist Lock Receptacle w/ Photocell [15]	**Fusing** F1 Single-(120, 277, 347VAC) [1] F2 Double-(208, 240, 480VAC) [1] F3 Canadian Double Pull-(208, 240, 480VAC) [1] **Pole Mount Fusing** FP1 Single-(120, 277, 347VAC) [1] FP2 Double-(208, 240, 480VAC) [1] FP3 Canadian Double Pull-(208, 240, 480VAC) [1] **Surge Protection** (10kA standard) SP2 Increased 20kA	Square Pole Adapter included as standard TB Terminal Block [1] RPA Round Pole Adapter (fits to 3"- 3 ½" O.D. pole) [1] HIS Internal Housing Side Shield [4]	**Textured** BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray **Customer specified** RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Mounts to a 4-5" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only in 120 or 277V.
8. Not available in 347 or 480V.
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V. Order photocell separately with TLRDS/7.
12. Not available with DCC.
13. Not available with SF and WS. RPAs provided with black finish standard.
14. HIS not available with Type 5, 5W, and BLC optics.
15. Limited to max. 600mA configurations.
16. Not available with DD, DCC, and FAWS dimming control options.
17. Not available with DD, DCC, FAWS, and LLC dimming control options.
18. Not available with DD, DCC, FAWS, LLC, and BL dimming control options (5W or DynaDimmer required).
19. Must specify a motion sensor lens.

P26_PureForm_area_medium 03/20 page 1 of 9

E3 : Mounted to underside of the loading canopy. 6W LED = 400lm

Job: Approval: Type:

VISION·3 LIGHTING

Rear Mount MR16 Flood **MODEL FL1**
12V 50W Max., MR16 Halogen
12V 7.5W, 12/24V 6W, or 12V 10W LED

Specifications

Body
Machined 6061-T6 aluminum, C36000 brass, or 304 stainless steel body with 18-8 stainless steel hardware.

Knuckle
Machined 6061-T6 aluminum, C36000 brass, or 304 stainless steel mounting knuckle with a 1/2" NPS threaded male fitting allows a full range of mounting positions. Double taper design (U.S. Patent #6,966,679) allows fixture to hold position during aiming and ensures a solid lock when tightened. Integral high temperature silicone O-ring prevents leaking between housing and knuckle. Integral LED models have a molded silicone wire seal to prevent water entry at knuckle. Available Rotate and Lock option (U.S. Patent #7,108,405 & #7,458,552) allows for full 360° horizontal aiming and locking.

Cap
Machined cap locks in place with one 18-8 stainless steel set screw, and is sealed to the body with a high temperature silicone O-ring. Round C2 & C4 caps have drain holes for water drainage from top of lens. Square caps feature removable and field interchangeable cutoffs with 'flow-through' design for 360° drainage via the light leak. 'Flush Lens' cap styles incorporate a stepped lens to reduce the collection of water and debris on the lens.

Finish
TGIC thermo set polyester powder coat paint available in 14 standard colors. On aluminum model, finish is applied over a corrosion resistant, hexavalent-chromium free, RoHS compliant coating. Aluminum model available in one additional metal finish: Clear Anodized. Brass model available in three additional metal finishes: Natural, Polished, and Aged. Stainless steel model available in three additional metal finishes: Natural, Polished, and Brushed.

Socket
GY6.35 porcelain socket with 600V, 250°C, PITEE coated 18 ga leads.

Lens
Tempered, clear lens, secured to cap with a high temperature, UV curing, silicone adhesive.

Lamps
MR16 Halogen: 12V bi-pin up to 50W (maximum allowable wattage depends on model and application. See **Certification** heading).
Integral LED: 12-24V AC/DC 6W (400lm) or 12V AC/DC 10W (700lm) LED options include integral driver with High/Low switch for 35W/20W (6W) or 50W/35W (10W) halogen equivalent outputs. LED Modules are field replaceable and feature replaceable lenses, an L70 = 60,000 hrs., dynamic transformer recognition, phase dimming (see Transformer and Dimmer Compatibility List), and patented LEDSense™ thermal management.
Retrofit MR16 LED: 12V 7.5W (600lm) bi-pin retrofit Sorna™ MR16 LED lamp with specially engineered heat sink mount to ensure proper heat transfer to body. Note: Retrofit LED will overheat without supplied heat sink mount.

Certification
CSA tested & certified to US and Canadian safety standards for the following applications:
Wet location landscape use (UL1838):
FL1A - 50W Max., MR16 Halogen lamp,
FL1B - 35W Max., MR16 Halogen lamp,
FL1S - 20W Max. MR16 Halogen lamp.
Wet location wall mount use (UL1598):
FL1A - 50W Max., MR16 Halogen lamp,
FL1B - 20W Max., MR16 Halogen lamp,
FL1S - 20W Max. MR16 Halogen lamp.
Wet location ceiling mount use (UL1598):
FL1A - 20W Max., MR16 Halogen lamp,
FL1B - 20W Max., MR16 Halogen lamp,
FL1S - 20W Max. MR16 Halogen lamp.
LED options can be used in all models and applications.
All ratings subject to change without notice. See website or contact V3 for most current info.

Round

Square
(available only with model FL1A and LED lamp options)

Ordering Information

Model: FL1A - Aluminum; FL1B - Brass; FL1S - Stainless
Shape: RND - Round; SQ - Square
Cap Style: Standard Lens: C1 - Flush; C2 - Regress Lens; C2L - Regress Lens - Long; C3 - Regress Lamp; C4 - 45° Angled; C4L - 45° Angled, Long. Flush Lens: C1F - Flush; C2F - Regress Lens; C2LF - Regress Lens, Long; C3F - Regress Lamp; C4F - 45° Angled; C4LF - 45° Angled, Long
Knuckle: K1 - Standard[1]; K2 - Rotate & Lock[1]
Lens Accy [2]: B - None; L1 - Spread; L2 - Linear; L3 - Softening
Filter [3]: B - None; F4 - Green; F1 - Red; F5 - Amber; F2 - Blue; F6 - Pink; F3 - Light Blue; F7 - Mercury Vapor
Louver [3]: B - None; W1 - Hex
Finish — Powder Coat Finishes: BLT - Textured Black; BL - Black; BNT - Textured Bronze; BN - Bronze; BAT - Textured Bare; BR - White; GRT - Textured Green; SI - Silver; GNT - Textured Granite; GY - Grey; SAT - Textured Sand; BE - Beige; PAT - Textured Patina; EAT - Textured Earth. Metal Finishes: CLA - Clear Anodized (FL1A only); NAT - Natural (FL1B & FL1S only); POL - Polished (FL1B & FL1S only); AGE - Aged (FL1B only); BRU - Brushed (FL1S only)
Lamp — Integral LED (3000K, >80 CRI): [4,5,6] 11R - 6W, 12° | 14T - 10W, 12°; 11T - 6W, 21° | 15Z - 10W, 21°; 11R - 6W, 41° | 15Z - 10W, 41°. MR16 Halogen: [7,8] B - None | 05 - FMW, 35W, 40°; 01 - ESX, 20W, 12° | 09 - EXT, 50W, 12°; 02 - BAB, 20W, 40° | 10 - EXZ, 50W, 25°; 03 - FRD, 35W, 12° | 11 - EXN, 50W, 40°; 04 - FRA, 35W, 25° | 12 - FNV, 50W, 60°. Retrofit MR16 LED (3000K, 90 CRI): [4,5] 15S - 7.5W, 10° | 15W - 7.5W, 25° | 15T - 7.5W, 36°

Example: **FL1B - AGE - RND - C3 - K2 - 117 - 0 - F2 - H1**

Notes:
1. SQ shape available with model FL1A and LED lamps only.
2. Allowable wattage depends on model and application. See **Certification** heading above.
3. K1 knuckle is protected under U.S. Patent #6,966,679. K2 knuckle is further protected under U.S. Patent #7,108,405 & #7,458,552.
4. Only power LED lamp options with approved transformers (contact V3 for transformer compatibility info).
5. LED lamp options available in other color temperatures and / or CRI's (contact V3 for info).
6. Only two lens accessories can be used with Integral LED.
7. Use only approved Retrofit MR16 LED lamps and supplied heat sink mount, otherwise LED may overheat.
8. Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

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revision 6/26/19

E5

UTA-20731
Tango 35 Square Single Head Post Top

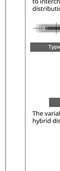
microVos TECHNOLOGY — LIGMAN LIGHTING USA

57w LED
2777 Lumens
IP65
Suitable for wet locations
IK08
Impact Resistant (Vandal Resistant)
EPA - 0.60
Weight - 45 lbs
POLE INCLUDED

Mounting Detail

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive ,Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U0 - G1

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precision optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Square form technical post top range. Flexible post top lighting solutions for perfect symmetrical or asymmetrical task lighting.

Tango post top luminaire was developed to complement the Tango and Jet range of wall mount luminaires as well as the Jet square bollards, using energy saving LED modules. This rectangular profiled luminaire mounted on a square aluminium pole is available with asymmetrical type II, III and IV light distributions and complies with IDA Dark Sky requirments. Designed for residential and shopping areas, squares and parks.

Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. High pressure die-cast marine grade LM6 aluminium body that is pre-treated with a nickel and zinc phosphate and then powder coated with a 4.9mil thick paint finish ensuring high corrosion resistance.

Marine grade 316 stainless steel fasteners. Durable memory retentive silicone rubber gasket and clear tempered glass lens. This luminaire is provided prewired with power cord to the handhole to simplify installation.

Additional Options (Consult Factory For Pricing)

A20WR
Boot Mount Kit

E7

GARDCO by Signify

Site & Area
PureFory
P26 medium area light

Gardco PureForm LED area medium P26 features a sleek, low profile design and optimal performance. PureForm area medium is designed to achieve maximum pole spacing, with lumen output up to 28,900 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project:
Location:
Cat.No:
Type:
Lumens: Qty:
Notes:

Ordering guide — example: P26-64L-800-NW-G2-AR-3-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color – Generation	Mounting	Distribution	Voltage
P26 PureForm area medium, 26"	48L 48 LEDs (3 modules)	400 400mA 500 500mA 600 600mA 700 700mA	WW-G2 Warm White 3000K, 70CRI Generation 2 NW-G2 Neutral White 4000K, 70CRI Generation 2 CW-G2 Cool White 5000K, 70CRI Generation 2 WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 BW-G2 Balanced White 3500K 80CRI Generation 2 AM-G2 Direct Amber (590nm) Generation 2 [13]	AR Arm Mount standard[1] The following mounting kits must be ordered separately (See accessories) SF Slip Fitter Mount [1] (fits to 2 ½" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM Retrofit arm mount kit [1]	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, rotated left 90° AFR-270 Auto Front Row, rotated right 270° BLC Back Light Control BLC-90 Back Light Control rotated at 90° BLC-270 Back Light Control rotated at 270°	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60HZ) HVU 347-480V (50/60HZ)
	64L 64 LEDs (4 modules)	600 600mA 700 700mA 800 800mA				
	80L 80 LEDs (5 modules)	700 700mA 800 800mA 900 900mA				

Options

Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (by others)[2] DCC Dual Circuit Control[14] FAWS Field Adjustable Wattage Selector [11] SW Interface module for SiteWise [12] LLC Integral wireless module [11] [14] BL Bi-level functionality [1,5] **DynaDimmer** Automatic Profile Dimming CS50 Security 50% Dimming, 7 hours [14] CM50 Median 50% Dimming, 8 hours [14] CS30 Security 30% Dimming, 7 hours [14] CM30 Median 30% Dimming, 8 hours [14]	IMR3 Integral with #3 lens [9] IMR7 Integral with #7 lens [9]	PCB Photocontrol Button [15] TLR5 Twist Lock Receptacle 5 Pin [6] TLR7 Twist Lock Receptacle 7 Pin [6] TLRPC Twist Lock Receptacle w/ Photocell [15]	**Fusing** F1 Single-(120, 277, 347VAC) [1] F2 Double-(208, 240, 480VAC) [1] F3 Canadian Double Pull-(208, 240, 480VAC) [1] **Pole Mount Fusing** FP1 Single-(120, 277, 347VAC) [1] FP2 Double-(208, 240, 480VAC) [1] FP3 Canadian Double Pull-(208, 240, 480VAC) [1] **Surge Protection** (10kA standard) SP2 Increased 20kA	Square Pole Adapter included as standard TB Terminal Block [1] RPA Round Pole Adapter (fits to 3"- 3 ½" O.D. pole) [1] HIS Internal Housing Side Shield [4]	**Textured** BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray **Customer specified** RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Mounts to a 4-5" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only in 120 or 277V.
8. Not available in 347 or 480V.
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V. Order photocell separately with TLRDS/7.
12. Not available with DCC.
13. Not available with SF and WS. RPAs provided with black finish standard.
14. HIS not available with Type 5, 5W, and BLC optics.
15. Limited to max. 600mA configurations.
16. Not available with DD, DCC, and FAWS dimming control options.
17. Not available with DD, DCC, FAWS, and LLC dimming control options.
18. Not available with DD, DCC, FAWS, LLC, and BL dimming control options (5W or DynaDimmer required).
19. Must specify a motion sensor lens.

P26_PureForm_area_medium 03/20 page 1 of 9

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© Meyer 2019 Project No:20190606.00 MADISON PUBLIC MARKET 202 N First St, Madison, WI 53704 EXTERIOR LUMINAIRE SCHEDULE AND CUTS EL102.rvt

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EXTERIOR LUMINAIRE SCHEDULE AND CUTS

EL102

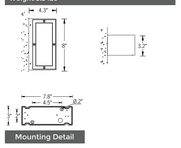
E8

UGI-31641

Gino 4 Type I, II, III, IV & V Downlight

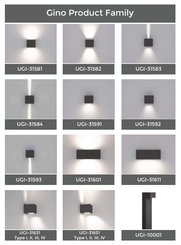
LIGMAN LIGHTING USA

10w LED 780 - 982 Lumens
IP65 • Suitable For Wet Locations
IK07 • Impact Resistant
Weight 3.5 lbs



Mounting Detail

Gino Product Family



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die-casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0 - U0 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Façade-mounted building and area lighting range. Sleek, compact and expansive luminaire family with lighting packages and optics to address any need.

A range of small, square and rectangular wall mounted luminaires with options of upward or downward light distributions. Ideally suited to illuminate the wall and surfaces in front of wall and for light accents on vertical surfaces using high efficiency LED's. The Gino is suitable for indoor and outdoor applications and provides a clean, visually appealing solution for small, unobtrusive wall mounted luminaires.

This luminaire is available in 2 different sizes and in combinations of down, up or up/down light distributions. The Gino 1 and Gino 2 have a decorative spike option for added lighting effects. The Gino 1 and 2 mounts over a 3" octagonal junction box, a 4" j-box cover plate is available upon request. Clear lens standard.

Additional Options (Consult Factory For Pricing)

SCE
Surface Conduit Decorative Trim

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

E9

NO LONGER USED

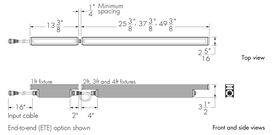
E10 : Pointed down and in at the wall murals

Specification Sheet

lumenfacade
LOG
WHITE AND STATIC COLORS

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____

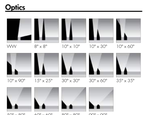


Photometric Summary

	Delivered output (lm)	Intensity (peak cd)
WW	3,592	5,159
8'x8'	4,045	77,896
10'x10'	3,768*	38,346*
10'x30'	3,830	30,056
10'x60'	3,692	19,654
10'x90'	3,576	7,897
30'x30'	3,765	14,726
30'x60'	3,862*	5,119*
60'x60'	3,447*	3,015*
90'x90'	3,592	1,886

Based on HO 4000K, 48 (12"Area) configuration.
Photometric performance is measured in compliance with IESNA LM-79-08.
*Limited. Consult website for the latest photometric files.

Optics



Description

The Lumenfacade is a high-performance linear LED luminaire for grazing or floodlighting exterior walls and facades. Featuring second generation LED technology, the luminaire is available in 12 in, 24 in, 36 in or 48 in sections, and can be configured with a wide number of options, including: optics for grazing or flood lighting; a choice of outputs (ASHRAE 5 W/ft, RO 8.5 W/ft or HO 15.25 W/ft); various color temperatures or static colors; various mounting options, finishes, accessories and controls. The Lumenfacade is also available with a unique asymmetric wallwash distribution, providing exceptional uniformity and brightness for walls and signage.

Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue
Length (nominal)	12 in, 24 in, 36 in, 48 in
Optics	Asymmetric Wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 50°, 60° x 60°, 80° x 80°, 90° x 90°
Options	End-to-end configuration (factory installed 16 in black input cable included). Corrosion-resistant coating for hostile environments. 3G ANSI C136.31 Vibration Rating for bridge applications. CE (certification covers European Economic Area)
Power Consumption	5 W/ft (meets ASHRAE standards for linear lighting on building facades - not available for 12 in fixture lengths). 8.5 W/ft (RO version). 15.25 W/ft (HO version). Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty

lumenpulse™ 1220 Marie-Victoria Blvd., Longueuil, QC J4G 2H9 CA T United States 617.307.5700 | Canada 1.877.937.3003 | 514.937.3003 F 514.937.6289 info@lumenpulse.com www.lumenplus.com www.lumenplus.com/products/1566/lumenfacade

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1 / 16

E11

TO BE APPROVED IN EXTERIOR SIGNAGE REVIEW

E12 : Recessed into the underside of the entry canopies

Kendo M Wet - Static White | Linear Illumination System

luminii

Features

- 24VDC Class 2 and IP68 rated for wet locations, fixtures made to order up to 144". Fixtures can be linked up to 48' depending on output
- Suitable for undercabinet, millwork, surface mount, direct view, cove, outdoor, wet, architectural reveals, and accent lighting applications
- Dot free even illumination with frosted lens
- High Color Quality options offer premium quality and vibrant colors with R9 values up to 97
- High Efficacy options offer best in class output and efficacy with over 590 lm/ft and over 80 lm/W
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- 3 Year warranty

IP68

Finish Options (see page 2 for additional information)

Silver Anodized	White	Aged Brass	
Black	Matte Black	Polished Gold	
Bronze	Warm Nickel	Chrome	

MADE IN U.S.A. CE RoHS COMPLIANT cULus LISTED JAS-DM COMPLIANT

Technical Information

MODEL	High Color Quality			High Efficacy				High Efficacy
OUTPUT OPTIONS	**72SO**	**72HO**	**72VHO**	**HE48LO**	**HE48SO**	**HE48MO**	**HE48HO**	**HE64VHO**
Lumens Output (3000K) (with a CClear lens)	163 lm/ft	265 lm/ft	323 lm/ft	159 lm/ft	220 lm/ft	294 lm/ft	472 lm/ft	597 lm/ft
Average Power Consumption (for a 6' section)	2.8 W/ft	4.8 W/ft	6 W/ft	1.9 W/ft	2.8 W/ft	3.5 W/ft	6.5 W/ft	7.5 W/ft
Efficacy	58 lm/W	55 lm/W	54 lm/W	84 lm/W	79 lm/W	84 lm/W	73 lm/W	80 lm/W
Max Run Length (in series)	40 ft	31 ft	22 ft	48 ft	42 ft	33 ft	21 ft	15 ft
Max Ambient Temperature*	50°C [122°F]		45°C [118°F]	50°C [122°F]			45°C [113°F]	35°C [102°F]

*Max Ambient Temperature is maintain 25°C of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

High Color Quality (72)

CCT	Multiplier (reference - 3000K)	CRI	TM-30 R_f	TM-30 R_g
2700K	0.97	97	96	99	93
3000K	1.00	96	95	99	92
3500K	1.01	96	95	100	94
4000K	1.34	97	96	102	92

High Efficacy (HE48/HE64)

CCT	Multiplier (reference - 3000K)	CRI	TM-30 R_f	TM-30 R_g
2700K	0.94	92	90	99	46
3000K	1.00	92	89	99	62
3500K	1.02	92	89	99	58
4000K	1.02	92	86	94	52

Ordering Code

MODEL	LENGTH	OUTPUT	CCT	LENS†	MOUNTING	FINISH‡	POSITION	POWER FEED	ACCESSORIES
KMW-Kendo-M Wet	12" - 144" 1" Increments	72SO-Standard 72HO-High 72VHO-Very High	27K-2700K 30K-3000K 35K-3500K 40K-4000K	C-Clear F-Fosted G-Grizzle	FC-Fixed Clip A-Adjustable Hinge Mounting FC45-Fixed Clip 45° EFC-Tamper Resistant Fixed Clip	SA-Silver Anodized BL-Black BZ-Bronze WH-White MB-Matte Black WN-Warm Nickel LB-Light Bass PG-Polished Gold* CH-Chrome*	E-End B-Back S-Side	1-72" wire leads 1F2-72" wire leads at both ends 2-72" wire leads at one end and Quick Connect at other 3-Single Quick Connect 4-Quick Connect at both ends	-N/A, leave blank BLS-Blade louver, Silver BLBK-Blade louver, Black GSS-Glare shield, Silver GSB-Glare shield, Black GSWH-Glare shield, White
	12" - 144" 2" Increments	HE48LO-Low HE48SO-Standard HE48MO-Medium HE48HO-High HE64VHO-Very High	27K-2700K 30K-3000K 35K-3500K 40K-4000K						

1 - Custom lengths and increments are available, please consult Inside Sales with specific request
2 - 48" High Efficacy options can be used to comply with Title 24 JA8. High Color Quality options can be used to comply with Title 24 JA8 depending on Output, CCT, and lens selections, see multiplier charts to calculate specific efficacies.

3 - Non SA finishes may have extended lead times. Custom RAL are available, please consult Inside Sales with specific request
4 - Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".

REVO.1 03/01/2023 1 | 12 www.luminii.com T: 224-333-6033

E13

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EXTERIOR
LUMINAIRE CUTS

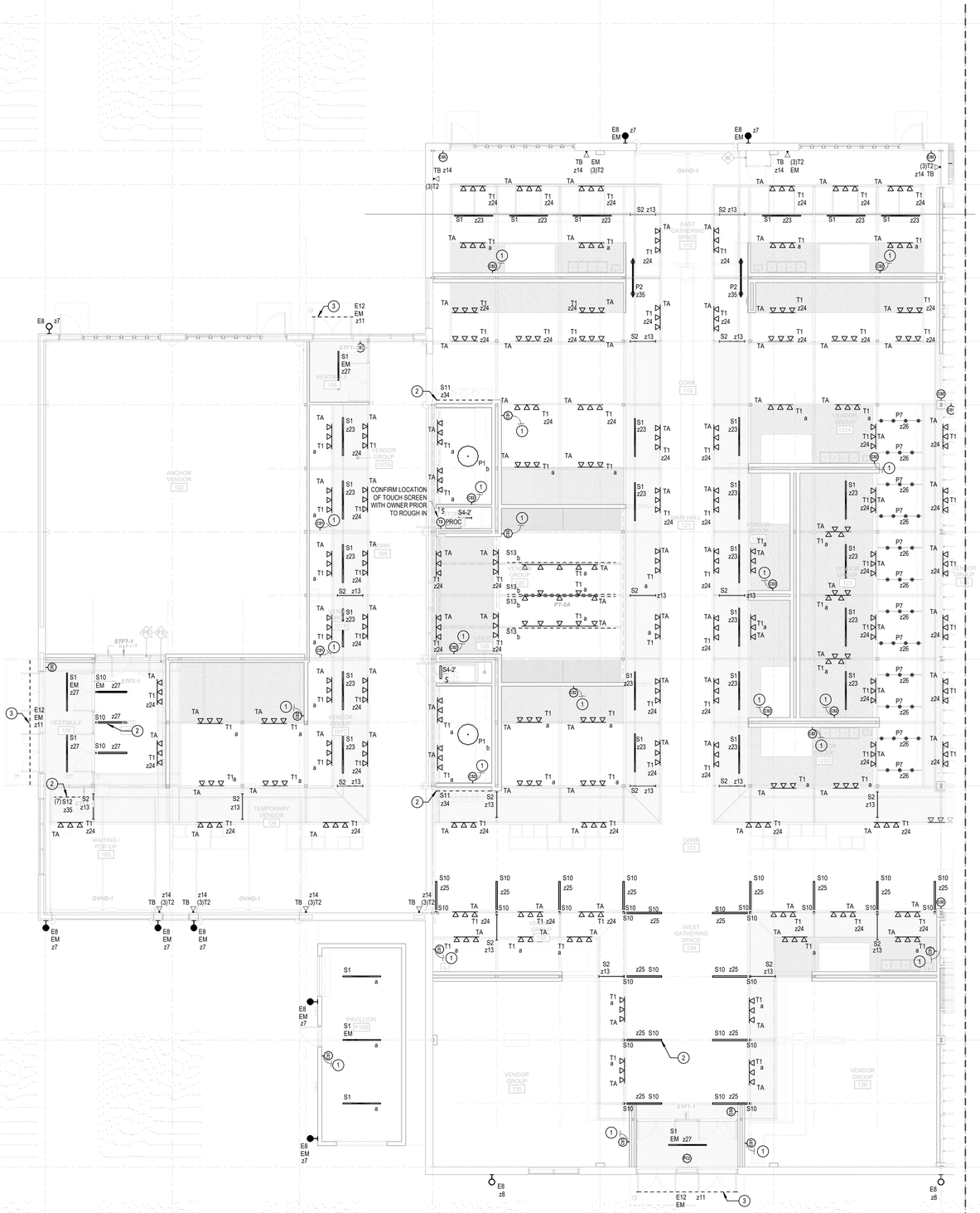
EL103

LIGHTING GENERAL NOTES

1 SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR DETAILS AND DIMENSIONS TO LIGHTING LAYOUT

KEYNOTES

1 TO DUPLEX OUTLET FOR VENDOR LIGHTING.
2 REMOTE DRIVER FOR THIS FIXTURE TO BE LOCATED ON TOP OF NEAREST MARKET CANOPY (TYPICAL FOR ALL FIXTURES OF THAT TYPE)
3 REMOTE DRIVER FOR THIS FIXTURE TO BE LOCATED ALONG INTERIOR ROOF DECK JOISTS(TYPICAL FOR ALL FIXTURES OF THAT TYPE). FINISH COLOR TO MATCH PAINT.



2 LEVEL 1 LIGHTING PLAN - NORTH
EL121N 1/8" = 1'-0"

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LEVEL 1 LIGHTING PLAN - NORTH

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LIGHTING GENERAL NOTES

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KEYNOTES

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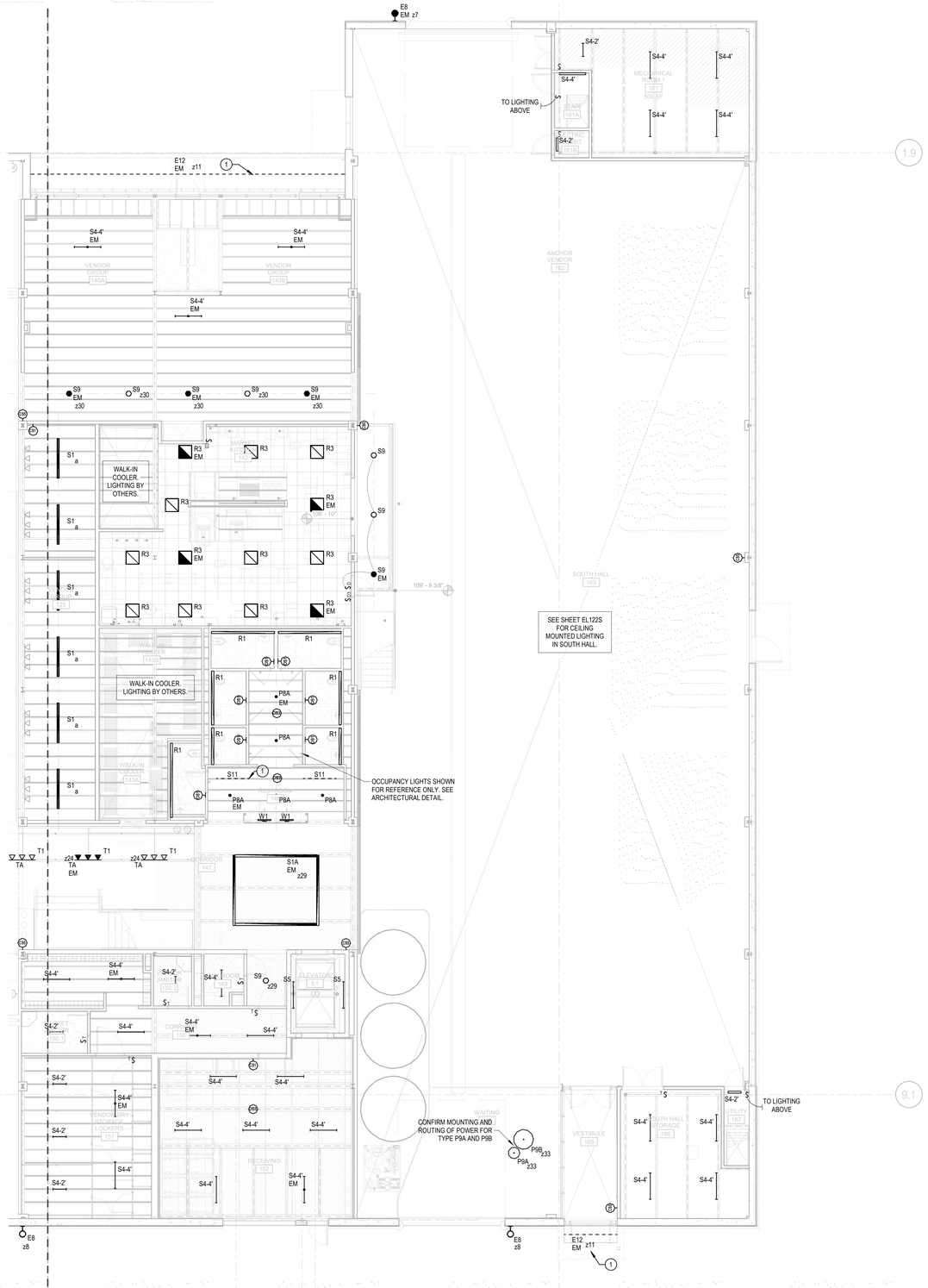

2 EL121S — LEVEL 1 LIGHTING PLAN - SOUTH
1/8" = 1'-0"

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LEVEL 1 LIGHTING PLAN - SOUTH

EL121S

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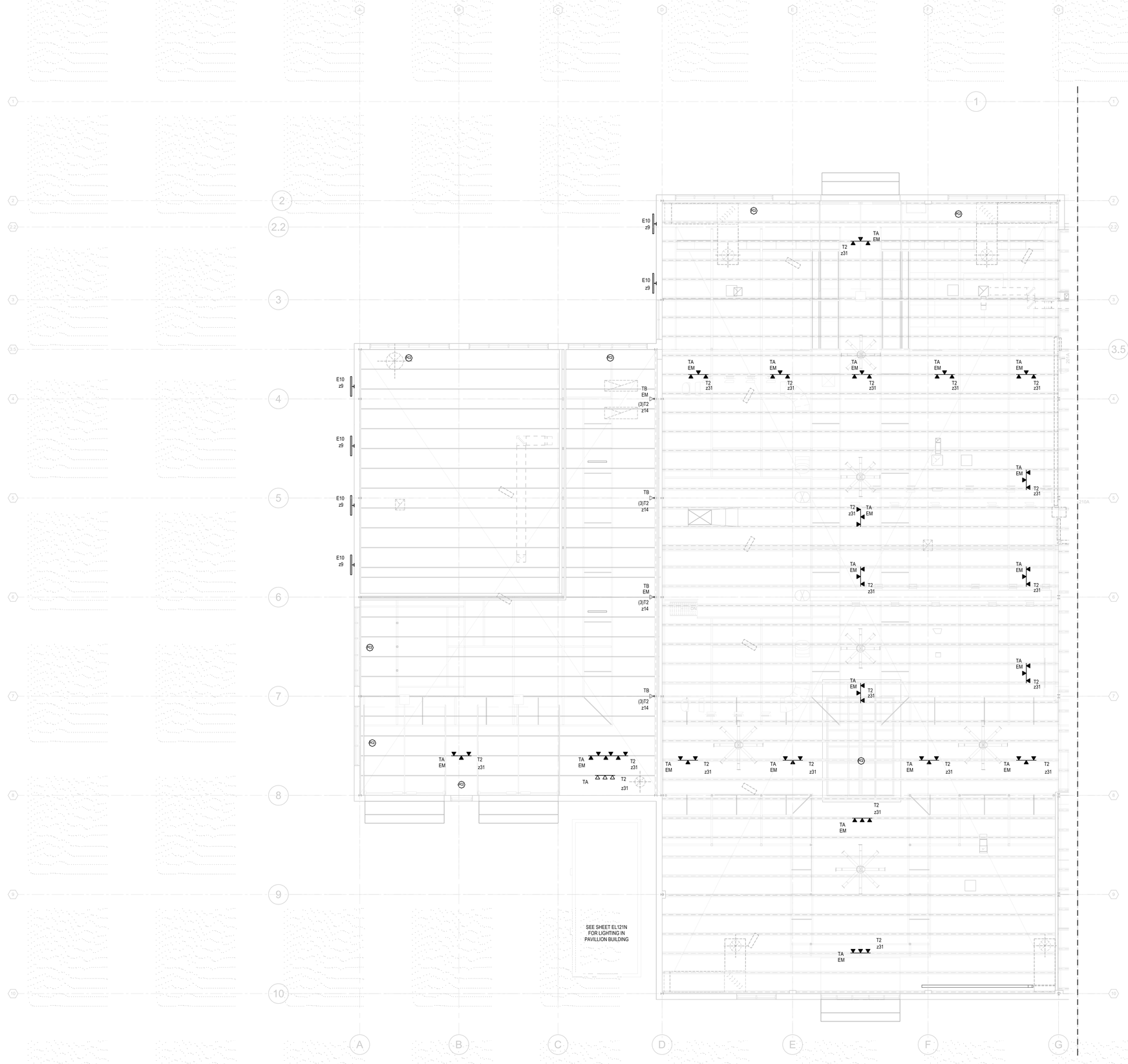

2 EL122N LEVEL 2 LIGHTING PLAN - NORTH
1/8" = 1'-0"

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LEVEL 2 LIGHTING PLAN - NORTH

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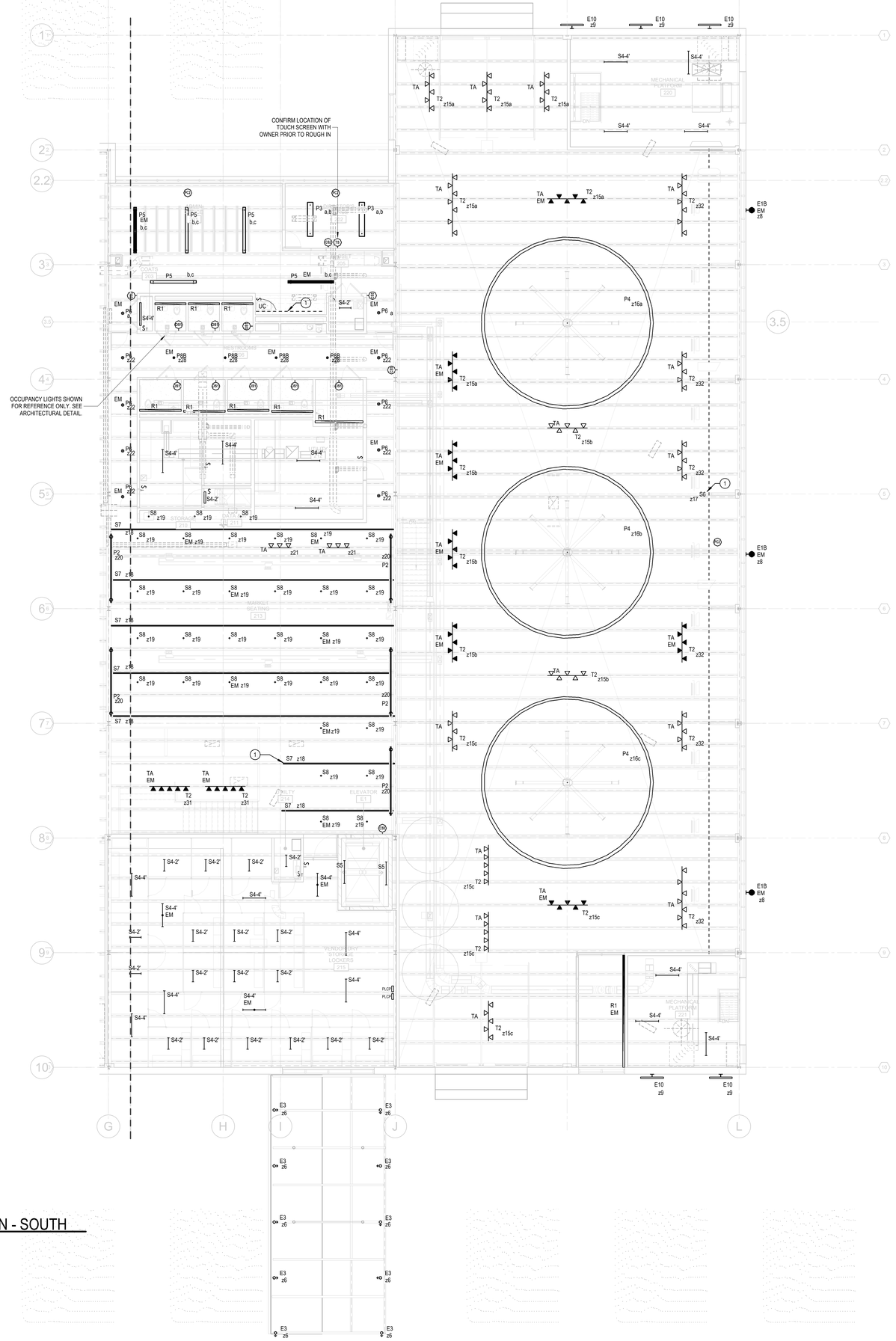

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Project No: 2019006.00

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LEVEL 2 LIGHTING PLAN - SOUTH

EL122S

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ELECTRICAL SYMBOLS LEGEND

RECEPTACLES

- 20A, 120V, 1P, 3W GROUNDING DUPLEX RECEPTACLE
- SWITCHED RECEPTACLE -(1 SWITCHED & 1 UNSWITCHED)
- SINGLE-PLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- GFCI RECEPTACLE
- RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
- TAMPER RESISTANT RECEPTACLE
- WEATHER-PROOF GFCI RECEPTACLE
- QUADPLEX FLOORBOX
- RECEPTACLE, NON 20A,1P - AS NOTED
  A - 20A, 250V, 2P,3WIRE, GND NEMA 6-20R
- 120V, 15A CLOCK OUTLET

POWER

- PANEL BOARD
- DISTRIBUTION PANEL BOARD
- CB — SEPARATE CIRCUIT BREAKER
- UTILITY METER
- DISCONNECT
- FUSED DISCONNECT SWITCH
- EMERGENCY FUSED DISCONNECT SWITCH
- T — TRANSFORMER
- MOTOR STARTER/CONTACTOR
- COMBINATION MOTOR STARTER
- COMBINATION MOTOR STARTER
- PUSH BUTTON STATION AS NOTED
- J — J-BOX
- FB — FLOOR BOX
- OB — OVERHEAD BOX
- P — PULL BOX, SIZE AS NOTED OR AS REQUIRED BY CODE
- EV — ELECTRIC VEHICLE CHARGING STATION
- ELECTRICAL EQUIPMENT CONNECTION
- MOTOR CONNECTION
- CEILING FAN
- CABLE TRAY RUN
- HOME RUN TO PANEL BOARD

SWITCHING

- $ — 20A, 120/277V SPST SWITCH
- $3 — 20A, 120/277V 3-WAY SWITCH
- $4 — 20A, 120/277V 4-WAY SWITCH
- $DM — DIMMER SWITCH
- $K — KEY OPERATED SWITCH
- $MC — MOMENTARY CONTACT SWITCH
- $L — LOW VOLTAGE SWITCH
- $TO — THERMAL OVERLOAD SWITCH
- $P — PILOT LIGHT
- $OS — WALL MTD OCCUPANCY SENSOR
- OS — CEILING MTD OCCUPANCY SENSOR
- PC — PHOTOCELL

SECURITY

- CX — CLOSED CIRCUIT CAMERA (CCC)
- CR — CARD READER
- EL — ELECTRIC LOCK, SEE DOOR HARDWARE SPEC.
- ML — MAGNETIC LOCK
- DE — DELAYED EGRESS (TIED TO INFANT ABDUCTION SYSTEM OR ED LOCK DOWN PUSH BUTTON)
- PS — DOOR SECURITY POWER SUPPLY (CONNECT TO AUTO OPERATOR CIRCUIT)
- RTE — REQUEST TO EXIT DEVICE
- MAG — MAGNETIC LOCK

ONE LINE DIAGRAM

- TRANSFORMER
- NEW PANEL BOARD
- EXISTING PANEL BOARD TO REMAIN
- PANEL BOARD TO BE REMOVED
- 3 POLE CIRCUIT BREAKER
- LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER
- PRIMARY DRAW OUT TYPE CIRCUIT BREAKER
- LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER WITH CURRENT LIMITING FUSES
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- 3 POLE DISCONNECT SWITCH AND FUSE
- GROUNDING CONNECTION
- LIGHTING ARRESTER AND GROUNDING
- DC-AC INVERTER
- CURRENT TRANSFORMER
- K — KIRK KEY INTERLOCK SYSTEM
- MO — MOTOR OPERATOR FOR CIRCUIT BREAKER OR SWITCH
- ST — SHUNT TRIP
- UM — UTILITY METER
- CM — CUSTOMER METER

FIRE ALARM

- MANUAL PULL STATION - 46" AFF TO CENTER
- WALL MTD AUDIO NOTIFICATION - 82" AFF
- WALL MTD VISUAL NOTIFICATION - 82" AFF
- WALL MTD AUDIO/VISUAL - 82" AFF
- CEILING MTD VISUAL NOTIFICATION
- CEILING MTD AUDIO NOTIFICATION
- CEILING MTD AUDIO/VISUAL NOTIFICATION
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT DETECTOR
- FB — FIRE BARRIER CONNECTION
- FAR/S — FIRE ALARM RELAY
- FSF/S — SPRINKLER FLOW SWITCH
- TF/S — TAMPER FLOW SWITCH
- DH — MAGNETIC DOOR HOLD
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL ABBREVIATIONS

A	AMPERES	m	MILI
AB	ABOVE COUNTERTOP	MAX	MAXIMUM
ADJ	ADJACENT	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
AIC	AMPS INTERRUPTING CURRENT	MCC	MOTOR CONTROL CENTER
ANNC	ANNUNCIATOR	MDP	MAIN DISTRIBUTION PANEL
ARCH	ARCHITECT	MFG	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
AUTO	AUTOMATIC	MIC	MICROWAVE
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MLO	MAN LUG ONLY
C	CONDUIT	MTD	MOUNTED
CB	CIRCUIT BREAKER	MT	EMPTY
CC	CONTROLS CONTRACTOR	MTR	MOTOR
CKT	CIRCUIT	NC	NORMALLY CLOSED
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE
COMB	COMBINATION STARTER	NF	NON-FUSED
CONN	CONNECT	NL	NIGHT LIGHT
CPT	CONTROL POWER TRANSFORMER	NO	NORMALLY OPENED
CT	CURRENT TRANSFORMER	OCC	OCCUPANCY
DET	DETAIL	OH	OVERHEAD
DIST	DISTRIBUTION	PB	PULL BOX
DIV	DIVISION	PC	PLUMBING CONTRACTOR
DN	DOWN	PF	POWER FACTOR
DWG	DRAWINGS	PH, Ø	PHASE
EA	EACH	PNL	PANEL
EC	ELECTRICAL CONTRACTOR	PRI	PRIMARY
EM	EMERGENCY	PT	POTENTIAL TRANSFORMER
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EX	EXISTING	REC	RECEPTACLE
EXP	EXPLOSION PROOF	REF	REFRIGERATOR
EXR	EXISTING RELOCATED	RM	ROOM
F	FUSE	SC	SPACE
FA	FIRE ALARM	SEC	SECONDARY
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SHT	SHEET
FACP	FIRE ALARM CONTROL PANEL	SP	SPARE
FT	FEET	SPD	SURGE PROTECTIVE DEVICE
FUT	FUTURE	SPST	SINGLE POLE SINGLE THROW
G, GND	GROUND	SURF	SURFACE
GC	GENERAL CONTRACTOR	SW	SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPT	TEL	TELEPHONE
HORZ	HORIZONTAL	TERM	TERMINAL
HP	HORSEPOWER	TV	TELEVISION
HR	HOUR	TYP	TYPICAL
HTG	HEATING	UE	UNDERGROUND ELECTRICAL
HZ	HERTZ	UG	UNDERGROUND
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	V	VOLTS
IN	INCH	VA	VOLT-AMPERES
JB	JUNCTION BOX	VAR	VOLT-AMPERES REACTIVE
k	KILO	VERT	VERTICAL
LTG	LIGHTING	VFD	VARIABLE FREQUENCY DRIVE
LV	LOW VOLTAGE	W	WATTS
		WP	WEATHER PROOF
		W/	WITH
		XFMR	TRANSFORMER
		20A	20 AMP
		3W	3 WIRE
		20/1	20 AMP, SINGLE PHASE

GENERAL ELECTRICAL NOTES

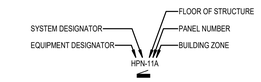
1. THIS IS AN OFFICE STANDARD SYMBOL LIST. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THIS PROJECT.
2. ALL WORK SHALL BE DONE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES, AND/OR ORDINANCES.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. EC SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE - BUT NOT LIMITED TO - TRANSFORMER, METERING, AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
7. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.
10. 20AMP CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP PER CIRCUIT OVERALL LENGTH AS FOLLOWS:

120 VOLT LENGTH	AWG	277 VOLT LENGTH	AWG
<120'	#12	<200'	#12
120'-200'	#10	200'-330'	#10
200'-300'	#8	330'-500'	#8
>300'	#6	>500'	#6

EQUIPMENT IDENTIFICATION

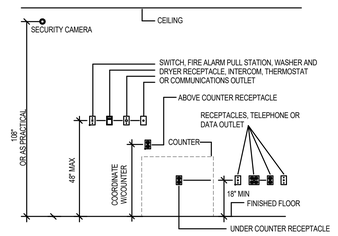
EQUIPMENT DESIGNATION	CODE
AUTOMATIC TRANSFER SWITCH	ATS
DISTRIBUTION PANEL 120/208V	LDP
DISTRIBUTION PANEL 277/480V	HDP
PANELBOARD 120/208V	LP
PANELBOARD 277/480V	HP
SWITCHBOARD	SB
TRANSFORMER	T

SYSTEM DESIGNATION	CODE
CRITICAL	C
EMERGENCY	E
LEGALLY REQUIRED	L
NORMAL	N
OPTIONAL STANDBY	S



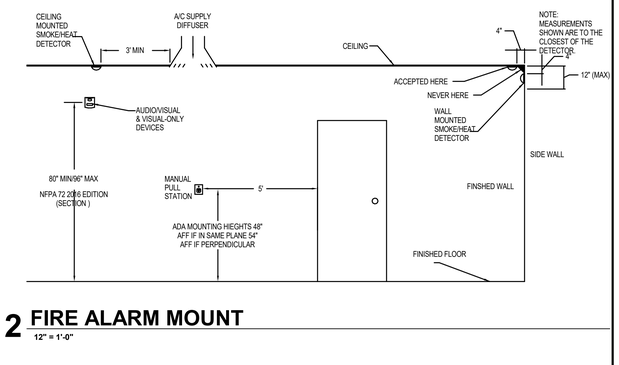
ELECTRICAL SHEET INDEX

E103	ROOF POWER AND SYSTEM PLAN
E000	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
ED101N	LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - NORTH
ED101S	LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - SOUTH
ED102	MEZZANINE LEVEL POWER AND SYSTEMS DEMOLITION PLAN
E100	ELECTRICAL SITE PLAN
E101N	LEVEL 1 POWER PLAN - NORTH
E101S	LEVEL 1 POWER PLAN - SOUTH
E102S	MEZZANINE LEVEL POWER PLAN - SOUTH
E111N	LEVEL 1 LIGHTING POWER PLAN - NORTH
E111S	LEVEL 1 LIGHTING POWER PLAN - SOUTH
E112N	LEVEL 2 LIGHTING POWER PLAN - NORTH
E112S	LEVEL 2 LIGHTING POWER PLAN - SOUTH
E102N	MEZZANINE LEVEL POWER PLAN - NORTH
E201N	LEVEL 1 FIRE DETECTION PLAN - NORTH
E201S	LEVEL 1 FIRE DETECTION PLAN - SOUTH
E202S	MEZZANINE LEVEL FIRE DETECTION PLAN - SOUTH
E401	ENLARGED ELECTRICAL PLANS
E501	ELECTRICAL ONE-LINE DIAGRAM
E502	ELECTRICAL DETAILS
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES



1 TYPICAL OUTLET MOUNT

12" = 1'-0"



2 FIRE ALARM MOUNT

12" = 1'-0"

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Project No: MTO.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
DARREN R. DICKENSON
E-36352
PLYMOUTH
REGISTERED PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS

E000

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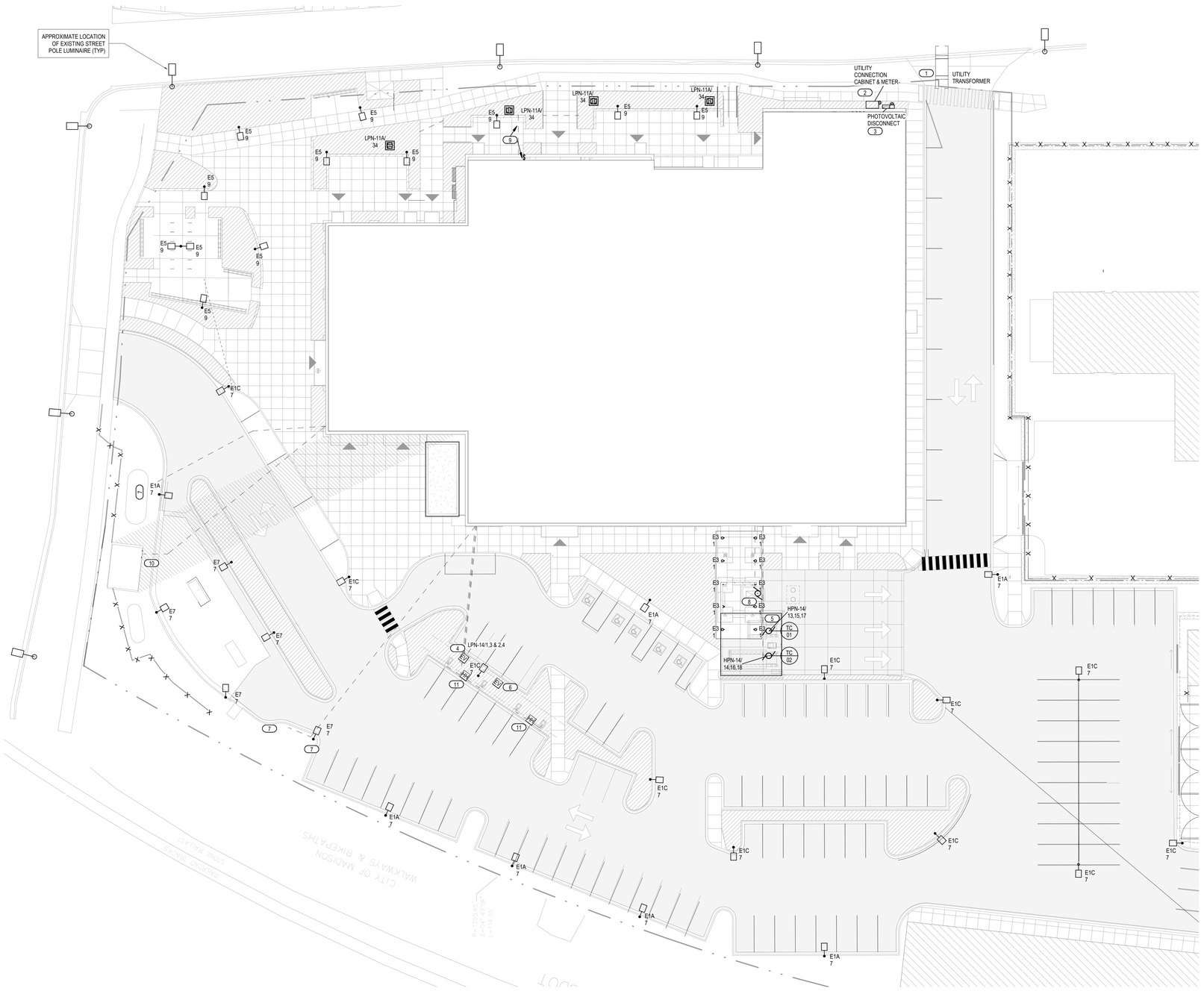

1 ELECTRICAL SITE PLAN

1" = 20'-0"

PROJECT NORTH

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. SEE EL SHEETS FOR ALL LIGHT FIXTURE CONTROLS, TYPES, AND MOUNTING INSTRUCTIONS .

C. POWER TO ALL TAPE -TYPE LIGHTING SHALL BE TO THE REMOTE DRIVER, WITH LOW VOLTAGE WIRING FROM THE DRIVER TO THE LED TAPE. SEE EL SHEETS AND/OR FIELD VERIFY DRIVER LOCATIONS.

D. CIRCUIT DESIGNATIONS FOR ALL LIGHTING INDICATE CIRCUITS ON PANEL HPN-24-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-H. SEE SHEET EL-003 FOR DETAILS.

E. ALL EMERGENCY DESIGNATED FIXTURES SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM INVERTERS, LOCATED ON MECHANICAL PLATFORM 220.

F. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT; MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.

G. COORDINATE WITH CIVIL AND LANDSCAPE CONTRACTORS PRIOR TO ANY BURIED CONDUIT RACEWAYS.

KEYED NOTES

1. TRANSFORMER, PAD AND BURIED RACEWAY OF SECONDARY TO BUILDING BY UTILITY. EC TO PULL AND CONNECT SECONDARY CONDUCTORS. SEE SHEET E501 FOR DETAILS.
2. EC TO PROVIDE FUSED DISCONNECT SWITCH CABINET AND METER SOCKET FOR UTILITY-PROVIDED 480V SERVICE METER. VERIFY LOCATION WITH UTILITY COMPANY. SEE ALSO ONE LINE DIAGRAM ON SHEET E501
3. LOCATE 3-PHASE DISCONNECT SWITCH AND CABINET WITH SOCKET FOR METER ON EXTERIOR WALL FOR PHOTOVOLTAIC POWER INPUT. VERIFY LOCATION WITH UTILITY COMPANY. SEE ALSO SHEET E103 DETAIL AND E501 ONE LINE DIAGRAM.
4. RUN A 3/4" CONDUIT WITH (2) 40A CIRCUITS ((2) #8, #10 G EACH) INSIDE FROM PANEL LPN-14 TO EDGE OF BUILDING. TRANSITION TO AND BURY 1" PVC CONDUIT TO INDICATED LOCATION AT FRONT EDGE OF PARKING STALL FOR EV CHARGING STATION. STUB UP AND TEMPORARILY SEAL. CHARGING STATION INDICATED TO BE PROVIDED THROUGH OWNER AND INSTALLED BY CONTRACTOR. SEE INSTALLATION MANUAL FOR CHARGEPOINT CT4000 FOR CONNECTION DETAILS.
5. BURY A 1"C. TO INDICATED LOCATION FOR COMPACTING DUMPSTERS, THEN STUB UP TO EACH DUMPSTER; VERIFY EXACT LOCATION. COMPLETE INDICATED MOTOR CONNECTIONS.
6. LOCATION OF UTILITY-PROVIDED EV CHARGING STATION. UTILITY WILL PROVIDE RACEWAY, CIRCUIT, AND STATION.
7. BURY A 3/4" C., (3) #12 TO LOCATIONS OF TOLL BARRIERS AND CONNECT TO TOLL BARRIER POWER (TOLL BARRIER PROVIDED BY OTHERS). SEE ALSO LANDSCAPE DRAWING L-1 FOR BARRIER LOCATIONS.
8. BURY A 1-1/2" C. WITH LONG SWEEP ELBOWS INTO SCISSOR LIFT PIT FROM POWER PANEL IN LOADING AREA - SEE SHEET E101S - AND CONNECT POWER TO SCISSOR LIFT MOTOR. PROVIDE 1-1/2" C., WITH LONG SWEEP ELBOWS, FROM PIT TO CONTROL PANEL FOR LIFT.
9. BURY A 1" C. TO OUTDOOR SEATING AREAS AND INSTALL WEATHERPROOF LANDSCAPE PEDESTAL RECEPTACLES IN EACH AREA AS INDICATED. COORDINATE LOCATION WITH LANDSCAPE PLANTINGS. CIRCUIT TO OUTDOOR SEATING AREAS TO BE CONNECTED TO DISCONNECT SWITCH INSIDE WALL, LABELED "EXTERNAL PATIO SEATING OUTLETS."
10. EXISTING UNDERGROUND RACEWAY TO DEPOT IS REMAINING. RECONNECT CIRCUITS TO PANEL LPN-14 - VERIFY SIZE OF EXISTING CKT BEFORE ORDERING BREAKER FOR LPN-14.
11. RUN A 1-1/4" C FROM LPN-14 TO EDGE OF BUILDING. TRANSITION TO AND BURY 1-1/4" PVC CONDUITS TO INDICATED LOCATIONS AT FRONT EDGE OF PARKING STALLS FOR FUTURE INSTALLATION OF EV CHARGING STATIONS. INSTALL (2) HANDHOLES WITH 1" STUB-UPS TO SERVE (2) STATIONS EACH - TOTAL OF (4) FUTURE - SEE DETAIL ON SHEET E502.

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Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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ELECTRICAL SITE PLAN

E100

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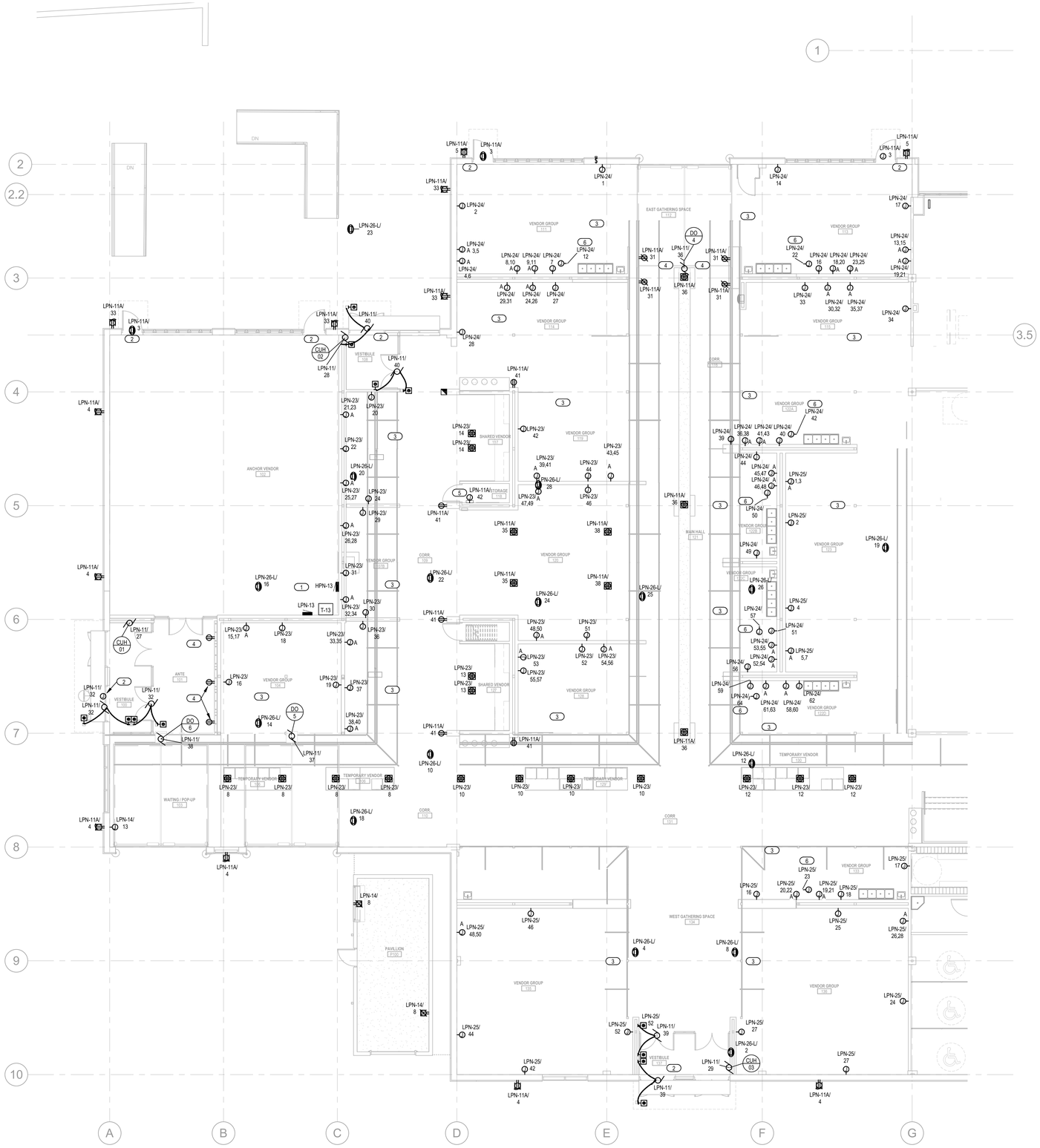

1 LEVEL 1 POWER PLAN - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION.

C. GFCI PROTECTED RECEPTACLES SHALL BE PROVIDED WHERE THE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK AND IN ANY WET LOCATION.

D. ALL BOXES AND CONDUIT ON NEW CMU (MASONRY) WALLS SHALL BE PAINTED TO MATCH WALL FINISH.

E. ALL JUNCTION BOXES IN VENDOR AREAS SHALL BE A SINGLE GANG BOX WITH CONDUIT. BOXES MARKED WITH AN "A" SHALL BE 208V CIRCUIT AND BE MOUNTED AT STANDARD 18" AFF MOUNTING HEIGHT. BOXES WITHOUT AN "A" SHALL BE 120V CIRCUIT AND MOUNTED AT 42" AFF.

KEYED NOTES

1. MOUNT TRANSFORMER ELEVATED NEAR CEILING.
2. PROVIDE POWER ABOVE DOOR FOR SECURITY LOCKS. SEE DETAIL ON SHEET E502.
3. RECEPTACLE MOUNTED ON OVERHEAD CANOPY STRUCTURE (FOR VENDOR-PROVIDED LIGHTING). SEE LIGHTING SHEETS FOR SWITCHING.
4. RECEPTACLES IN MILLWORK. REFERENCE ARCHITECTURAL DRAWINGS FOR DETAILS.
5. LIGHTING CONTROL PANEL - VERIFY EXACT LOCATION AND SEE SHEETS EL-003 AND EL-121N.
6. 120V CONNECTION FOR KITCHEN HOOD LIGHTING. SEE SHEET M101N FOR KITCHEN HOODS.

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LEVEL 1 POWER PLAN - NORTH

E101N

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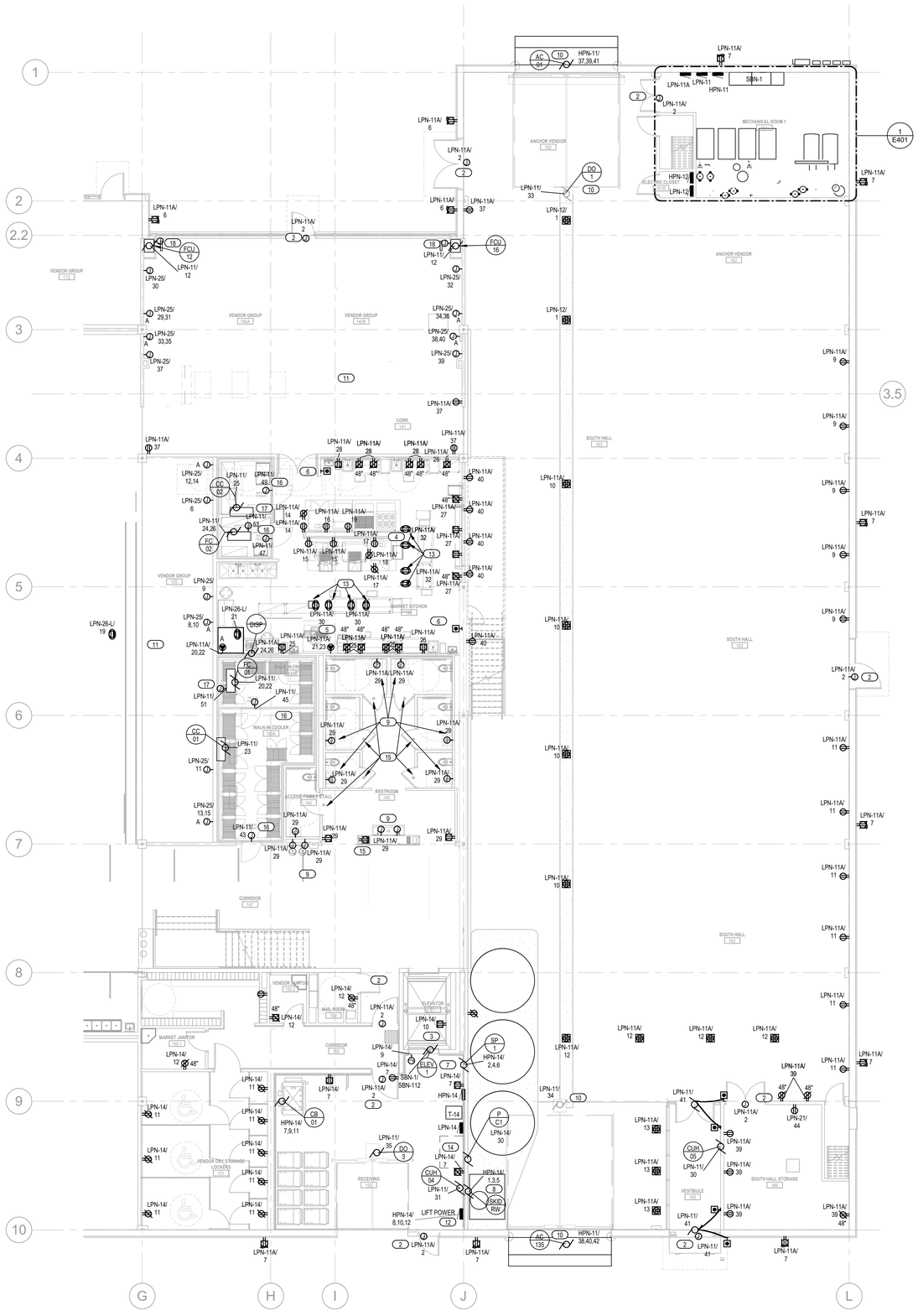

1 LEVEL 1 POWER PLAN - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION. SEE ALSO SHEET FS201 FOR FOOD SERVICE COORDINATION.

C. GFCI PROTECTED RECEPTACLES SHALL BE PROVIDED WHERE THE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK AND IN ANY WET LOCATION.

D. RECEPTACLES ON WALLS TO BE LABELED WITH PANEL AND CIRCUIT NUMBERS. SEE ALSO SPECIFICATION SECTIONS FOR IDENTIFICATION.

E. ALL JUNCTION BOXES IN VENDOR AREAS SHALL BE A SINGLE GANG BOX WITH CONDUIT. BOXES MARKED WITH AN "A" SHALL BE 208V CIRCUIT AND BE MOUNTED AT STANDARD 18" AFF MOUNTING HEIGHT. BOXES WITHOUT AN "A" SHALL BE 120V CIRCUIT AND MOUNTED AT 42" AFF.

F. ADDITIONAL ELECTRICAL CONTRACTOR INSTRUCTIONS FOR MARKET KITCHEN 142 ARE ON FOOD SERVICE DRAWINGS. SEE FS SHEETS FOR THOSE INSTRUCTIONS.

KEYED NOTES

1. MOTOR CONNECTIONS FOR FAN COILS ELEVATED. SEE MECHANICAL SHEETS AND MOTOR SCHEDULE FOR LOCATIONS AND CONNECTION SPECIFICS.
2. PROVIDE POWER ABOVE DOOR FOR SECURITY LOCKS. SEE DETAIL ON SECURITY SHEETS.
3. SEE DETAIL ON SHEET E502 FOR ELEVATOR CONNECTIONS AND BELOW-GRADE PIT REQUIREMENTS.
4. INSTALL RECEPTACLES IN CENTER KITCHEN WALL. RUN CONDUIT UNDER FLOOR TO CENTER ISLAND. SEE ALSO SHEET FS201 FOR ROUGH-IN.
5. PROVIDE NEMA 6-15P AT 60" AFF FOR ICE MACHINE . SEE SHEET FS201.
6. PROVIDE EPO BUTTONS WIRED TO TRIP SHUNT BREAKER FOR EXHAUST FAN EF-4. SEE DETAIL ON SHEET E502.
7. SUMP PUMP FOR ELEVATOR SUPPLIED WITH LOCAL CONTROL PANEL WITH INTEGRATED DISCONNECT. EC TO WIRE CONTROL PANEL AND PUMP.
8. CONNECTION TO RAINWATER SYSTEM SKID CONTROL PANEL. ALL POWER AND CONTROL WIRING TO EQUIPMENT ON SKID PROVIDED BY MANUFACTURER.
9. PROVIDE POWER TO TRANSFORMER SUPPLIED WITH AUTOMATIC FAUCET SENSORS AND WIRE LOW VOLTAGE TO SENSORS. SEE ALSO PLUMBING PLANS.
10. BASE BID IS TO RETAIN EXISTING DOOR OPENERS AND SWITCHES IN THESE LOCATIONS. ADD ALTERNATE #2 IS TO REPLACE DOOR OPENERS. VERIFY ACCEPTANCE OF ADD ALTERNATE #2 PRIOR TO ORDERING.
11. RECEPTACLE MOUNTED ON OVERHEAD CANOPY STRUCTURE (FOR VENDOR-PROVIDED LIGHTING). SEE LIGHTING SHEETS FOR SWITCHING.
12. POWER SUPPLY FOR SCISSOR LIFT - SEE SITE PLAN E100. 1-1/2" C TO BURIED RUN OUT TO SCISSOR LIFT PIT.
13. PROVIDE J-BOX ABOVE CEILING TO CORD REEL WITH PORTABLE OUTLET BOX. SEE DETAIL ON SHEET E502.
14. LEAVE 5' WIDE SPACE ON WALL EXTENDING OUT 3' NEXT TO PANEL LP-14 FOR FUTURE PANEL AND TRANSFORMER FOR EV CHARGING STATIONS. INSTALL SIGN READING "SPACE TO REMAIN CLEAR; RESERVED FOR FUTURE ELECTRIC VEHICLE CHARGING ELECTRICAL EQUIPMENT".
15. PROVIDE LOW VOLTAGE WIRING TO RESTROOM INDICATOR LIGHTS FROM CENTRAL HUB PLUGGED IN TO 120V OUTLET. PROVIDE RECEPTACLE FOR CONTROL MODULE SURFACE MOUNTED IN CABINET. SEE DOOR HARDWARE SCHEDULE AND RESTROOM NOTES ON ARCH SHEETS FOR DETAILS.
16. EC TO INSTALL J-BOX AND MOUNT AND WIRE LIGHT FIXTURES AND DOOR HEATERS IN WALK-IN COOLERS AND FREEZERS. SEE SHEET FS201.
17. PROVIDE J-BOX AND CONNECT TO DRAIN LINE HEAT TAPE DGR. SEE SHEET FS201.
18. BIPOLAR IONIZATION DEVICE MOUNTED IN SUPPLY DUCTWORK FROM VERTICAL FAN COIL UNIT AND POWERED FROM SAME CIRCUIT. SEE MECHANICAL SHEETS.

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Project No: M10.19.04

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Engineer Seal

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PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 1 POWER PLAN - SOUTH

E101S

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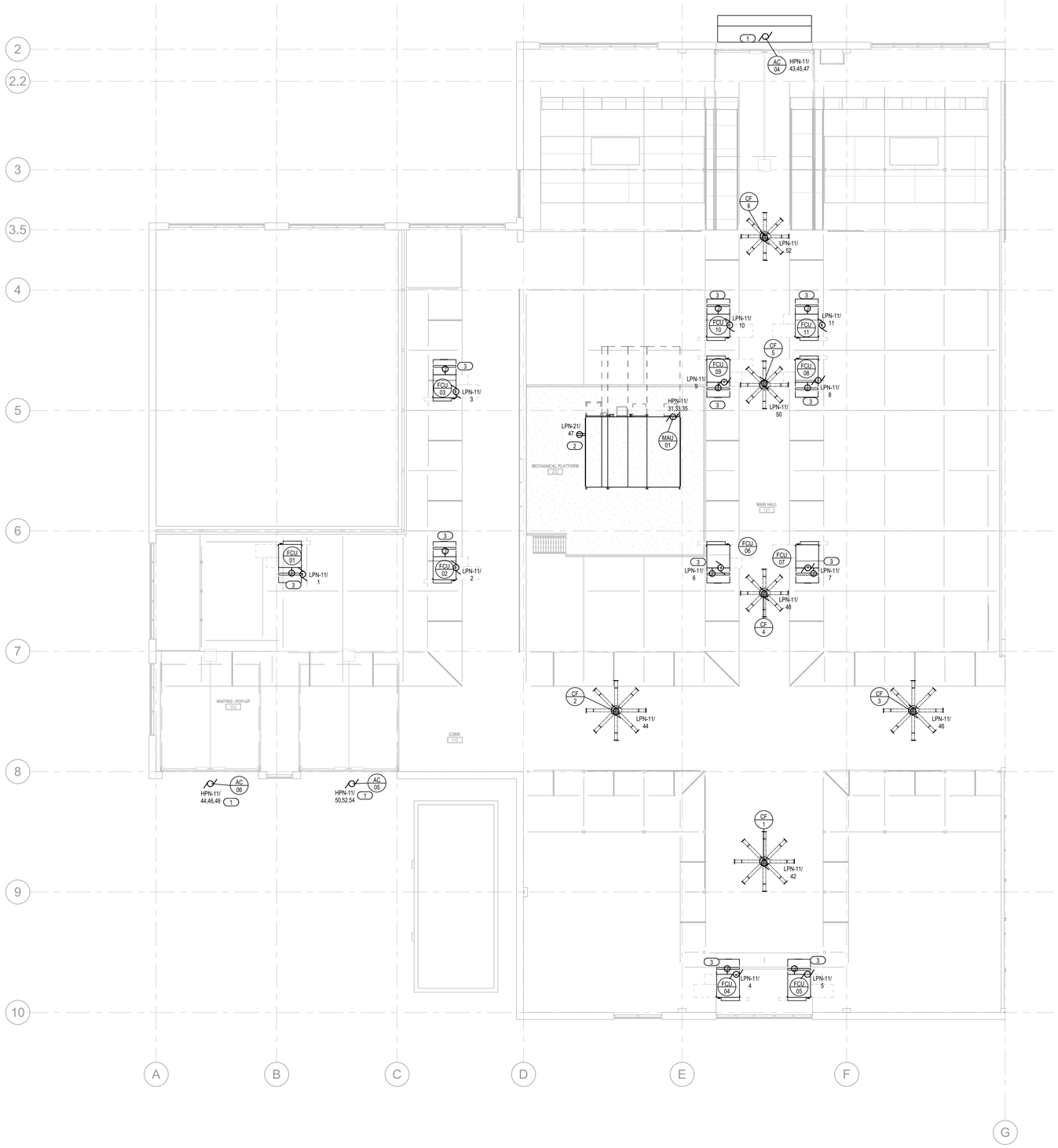

1 MEZZANINE ELECTRICAL POWER AND SYSTEMS - NORTH

1/8" = 1'-0"

GENERAL NOTES

A. -SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION.

C. GFCI PROTECTED RECEPTACLES SHALL BE PROVIDED WHERE THE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK AND IN ANY WET LOCATION.

D. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED IN SUBMITTAL DRAWINGS.

KEYED NOTES

1. AIR CURTAINS HAVE (2) MOTORS AT 7.5 HP EACH. PROVIDE (2) JUNCTION BOXES FROM SINGLE 3-PHASE CIRCUIT.
2. SURFACE MOUNT DUPLEX RECEPTACLE BOX TO SIDE OF MAKE-UP AIR UNIT.
3. BIPOLAR IONIZATION MOUNTED IN FAN COIL UNIT AND POWERED ON SAME CIRCUIT. SEE MECHANICAL SHEETS.

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Engineer Seal

WISCONSIN
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E-36352
PLYMOUTH
PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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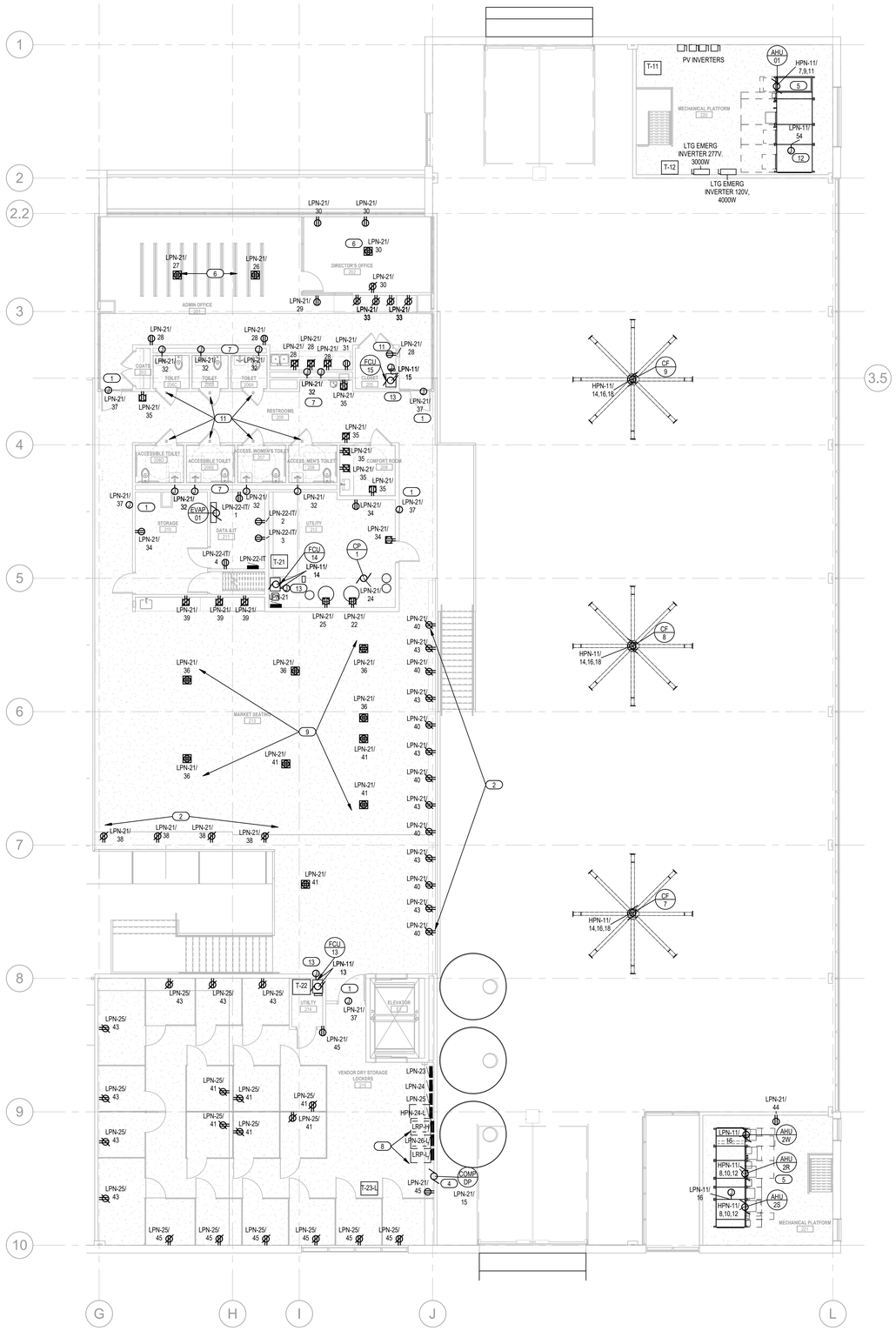
MEZZANINE LEVEL POWER PLAN - NORTH

E102N



1 MEZZANINE LEVEL POWER PLAN - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. -SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION.

C. GFCI PROTECTED RECEPTACLES SHALL BE PROVIDED WHERE THE RECEPTACLE IS LOCATED WITHIN 6' OF A SINK AND IN ANY WET LOCATION.

D. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED IN SUBMITTAL DRAWINGS.

KEYED NOTES

1. PROVIDE POWER ABOVE DOOR FOR SECURITY LOCKS. SEE DETAIL ON SHEET E502.
2. RECEPTACLES WITH USB MOUNTED UNDER LEDGE.
3. MOUNT RECEPTACLES IN SURFACE OF COUNTERTOP ALONG BACK SIDE.
4. DRY PIPE AIR COMPRESSOR INSTALLED IN FIRE PROTECTION DRY PIPES. SEE FIRE PROTECTION SHEETS FOR DETAILS.
5. VFD'S FOR EACH MOTOR IN AIR HANDLER UNITS SUPPLIED WITH UNIT BY MANUFACTURER. EC TO PROVIDE POWER TO VFD AND WIRE TO MOTOR SHOWN.
6. PROVIDE FLOOR BOXES BELOW OFFICE FURNITURE AS FURNITURE WHIP TYPE. ROUTE WHIP UNDER WORKSTATION TO CONCEAL WHIP AS POSSIBLE AND CONNECT POWER TO WORKSTATION RECEPTACLES.
7. PROVIDE POWER TO TRANSFORMER SUPPLIED WITH AUTOMATIC FAUCET SENSORS AND WIRE LOW VOLTAGE TO SENSORS. SEE ALSO PLUMBING PLANS.
8. PANELS LRP-H AND LRP-L ARE LIGHTING CONTROL PANELS. LIGHTING CIRCUITS FROM PANEL HPN-24-L AND LPN-26L SHALL ROUTE THROUGH THESE PANELS. SEE SHEET EL-003 FOR DETAILS.
9. VERIFY LOCATION OF OWNER'S FINAL FURNITURE PLAN IN MARKET SEATING AREA PRIOR TO INSTALLING FLOOR BOXES. ALIGN WITH FURNITURE LAYOUT.
10. NOT USED.
11. PROVIDE LOW VOLTAGE WIRING TO RESTROOM INDICATOR LIGHTS FROM CENTRAL HUB PLUGGED IN TO 120V OUTLET. PROVIDE RECEPTACLE FOR CONTROL MODULE IN CLOSET 209. SEE DOOR HARDWARE SCHEDULE AND RESTROOM NOTES ON ARCH SHEETS FOR DETAILS.
12. BIPOLAR IONIZATION DEVICE MOUNTED IN AIR HANDLER UNIT SUPPLY SIDE. SEE MECHANICAL SHEETS.
13. BIPOLAR IONIZATION DEVICE MOUNTED IN SUPPLY DUCTWORK FROM VERTICAL FAN COIL UNITS AND POWERED ON SAME CIRCUIT. SEE MECHANICAL SHEETS.

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Engineer Seal

WISCONSIN DARREN R. DICKENSON E-36352 REGISTERED PROFESSIONAL ENGINEER

Signature _____

Print Name DARREN DICKENSON

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MEZZANINE LEVEL POWER PLAN - SOUTH

E102S

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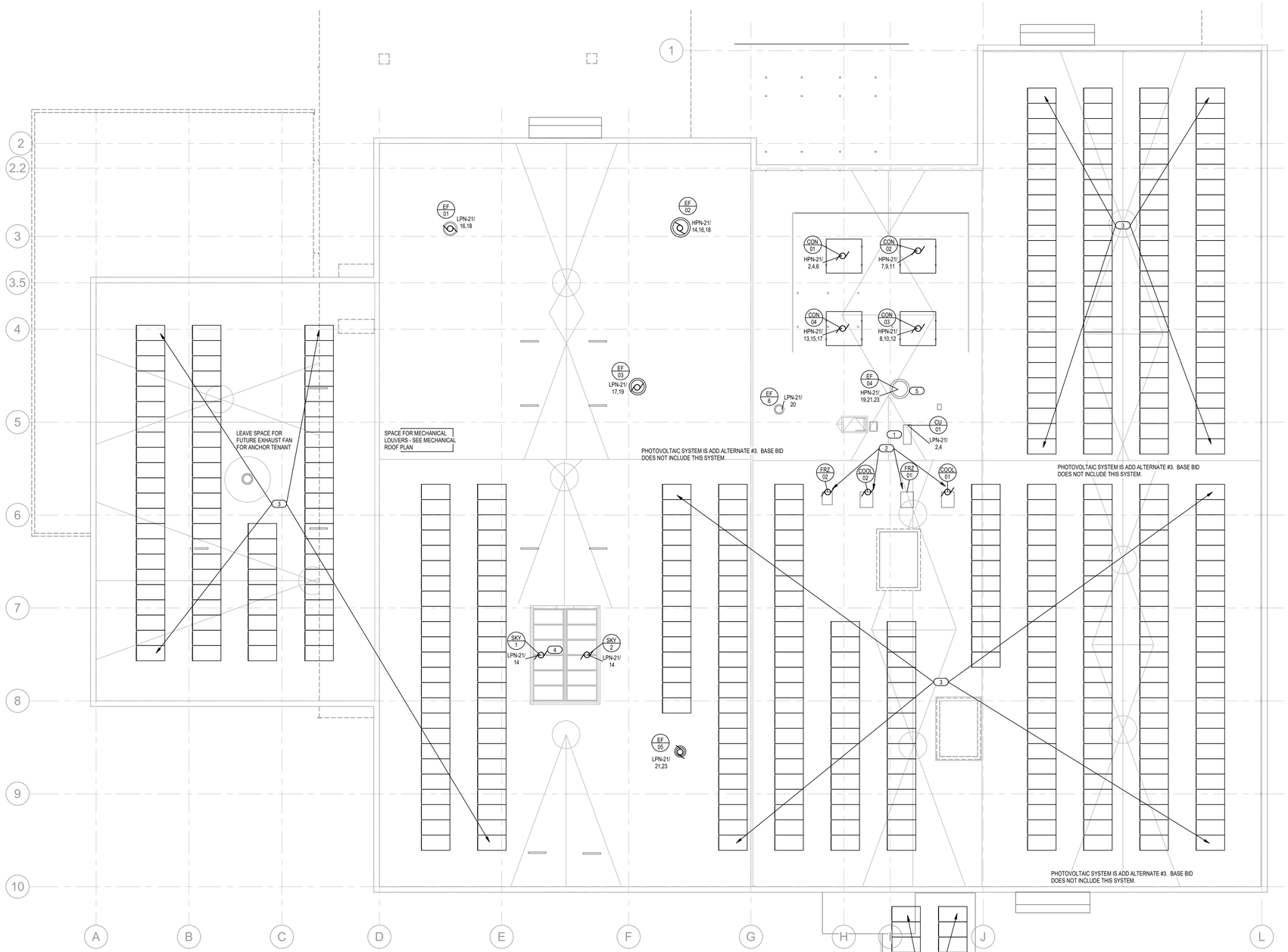


1 ROOF ELECTRICAL POWER AND SYSTEMS PLAN

1" = 10'-0"

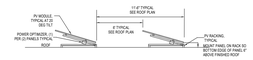
GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. VERIFY ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS BEFORE MAKING ANY ROOF PENETRATIONS.

KEYED NOTES

1. CU-1 IS PART OF MINI-SPLIT AIR CONDITIONING SYSTEM. POWER RUNS TO ROOFTOP CU-1, AND FROM CU-1 TO EVAP-1 IN IT ROOM. SEE SHEET E102S.
2. CONDENSING UNITS FOR WALK-IN COOLERS AND FREEZERS SUPPLIED BY KITCHEN SUPPLIER. EC TO PROVIDE POWER AND CONTROL WIRING AND WIRE COMPRESSOR TO EVAPORATOR BLOWER COIL - SEE SHEET E101S. SEE SHEET FS201 AND COOLER AND FREEZER INSTALLATION INSTRUCTIONS FOR WIRING TO GROUND FLOOR COOLER AND FREEZER.
3. PHOTOVOLTAIC ARRAY TO BE PROVIDED UNDER ADD ALTERNATE #3. FINAL ARRAY CONFIGURATION TO FOLLOW THIS DESIGN LAYOUT, BUT BE DETERMINED BY PROVIDER.
4. SKYLIGHT OPERATION MOTORS LOCATED UNDER SKYLIGHT = SEE ARCH. SHEET A352. MOTOR TO HAVE CONNECTION TO BAS.
5. EXHAUST FAN 04 TOHAVE SHUNT TRIP BREAKER - SEE HPN-21 AND LPN-21 PANEL SCHEDULES.



2 PV SECTION 6'

1/8" = 1'-0"

GENERAL PHOTOVOLTAIC NOTES

A. INSTALLING CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL EQUIPMENT INSTALLED WITHIN THE COMPLETED SYSTEM. SUBMITTALS SHALL INCLUDE PHYSICAL LAYOUT DRAWINGS AND INTERCONNECTION DIAGRAMS.

B. THE PHOTOVOLTAIC (PV) SYSTEM SHALL INCLUDE RAPID SHUTDOWN MEETING THE 2017 NEC REQUIREMENTS AT A MINIMUM.

C. THE PV SYSTEM SHALL INCLUDE LABELING AS REQUIRED WITHIN THE NEC. LABELING SHALL INCLUDE A PLACARD AT THE ELECTRICAL SERVICE IDENTIFYING THE LOCATION OF INVERTERS AND RAPID SHUTDOWN DEVICES - SEE SHEET E100 FOR DISCONNECT LOCATION.

D. COORDINATE INSTALLATION OF THE PV SYSTEM WITH THE UTILITY. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL APPLICATION, INSPECTIONS, AND ADDITIONAL REQUIREMENTS THE UTILITY MAY HAVE FOR AN INTERACTIVE SYSTEM. THE OWNER SHALL PAY ANY PERMIT COSTS.

E. DC STRINGS AND INVERTED AC POWER SHALL EACH INCLUDE DISCONNECTING MEANS AND FUSE PROTECTION.

F. SEE ARCHITECTURAL AND ELECTRICAL ROOF PLANS AND DETAILS FOR FURTHER INFORMATION ON PHYSICAL LAYOUT.

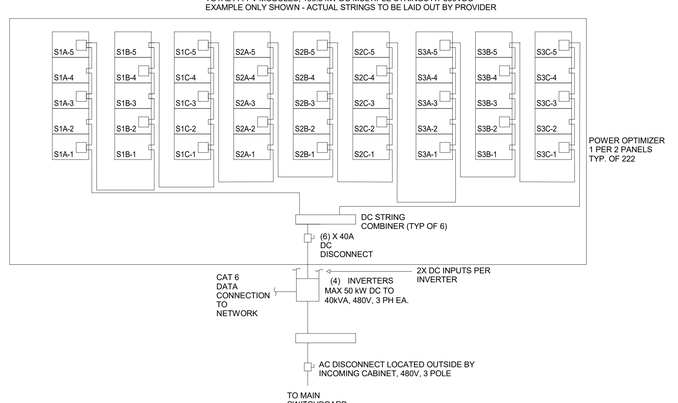
BASIS OF PV SYSTEM DESIGN

MODULES: SEE SPECIFICATION FOR MANUFACTURERS & MODELS
MAX POWER: 450W
OPEN CKT VOLTAGE: 51.9V MAX
SHORT CIRCUIT CURRENT: 11A MAX
DIMENSIONS: 40" X78.7" X 1.3"

INVERTER: SOLAREDGE THREE-PHASE INVERTER 480V GRID,
INPUT
MAX DC POWER: 50 kW
MAX INPUT VOLTAGE DC+ TO DC-: 1000VDC
NOMINAL INPUT VOLTAGE DC+ TO DC-: 850VDC
MAXIMUM INPUT CURRENT: 40ADC
OUTPUT
RATED AC OUTPUT: 40 kVA
AC OUTPUT VOLTAGE NOMINAL (L-N/L-L): 480V
AC FREQUENCY (NOMINAL): 60 HZ
MAX CONTINUOUS OUTPUT CURRENT (PER PHASE): 40
RAPID SHUTDOWN : ADD ON KIT COMMUNICATES WITH OPTIMIZERS.
POWER OPTIMIZER: SOLAREDGE P320

RACK: SEE SPECIFICATION.

TOTAL444 PV MODULES, 199.8 kW DC MULTIPLE STRINGS AT 850VDC -
EXAMPLE ONLY SHOWN - ACTUAL STRINGS TO BE LAID OUT BY PROVIDER



3 PHOTOVOLTAIC PANEL LAYOUT DETAILS

1/8" = 1'-0"

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PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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ROOF POWER AND SYSTEM PLAN

E103

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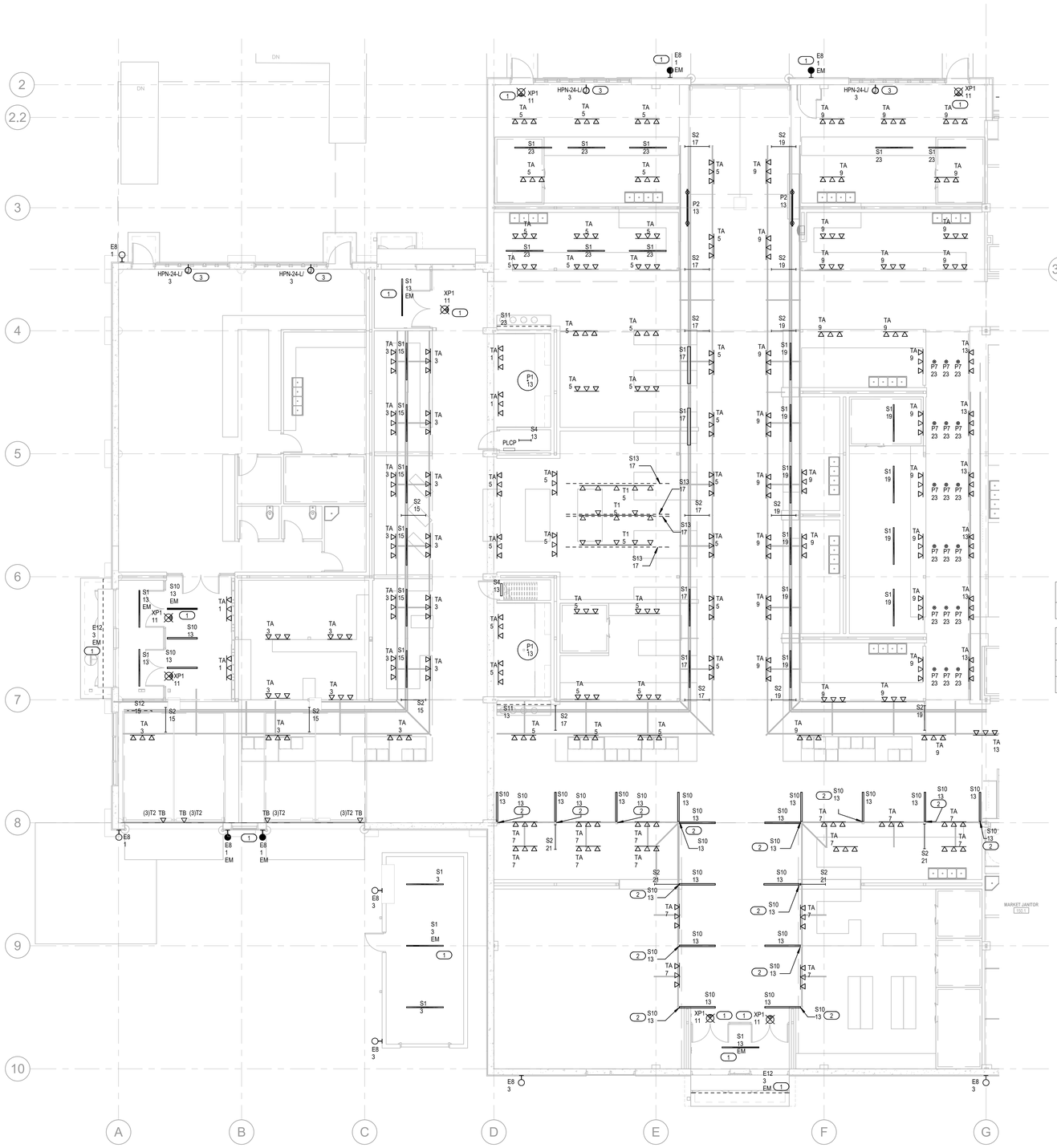

1 LEVEL 1 LIGHTING POWER PLAN - NORTH

1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. SEE EL SHEETS FOR ALL CONTROLS, TYPES, AND MOUNTING INSTRUCTIONS .

C. POWER TO ALL TAPE -TYPE LIGHTING SHALL BE TO THE REMOTE DRIVER, WITH LOW VOLTAGE WIRING FROM THE DRIVER TO THE LED TAPE. SEE EL SHEETS AND/OR FIELD VERIFY DRIVER LOCATIONS.

D. CIRCUIT DESIGNATIONS FOR ALL NON-TRACK LIGHTING INDICATE CIRCUITS ON PANEL HPN-24-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-H. SEE SHEET EL-003 FOR DETAILS.

E. CIRCUIT DESIGNATIONS FOR ALL T-TYPE TRACK LIGHTING INDICATE CIRCUITS ON PANEL LPN-26-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-L. SEE SHEET EL-003 FOR DETAILS.

F. ALL EMERGENCY AND EXIT LIGHTS SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM INVERTERS, LOCATED ON MECHANICAL PLATFORM 220.

G. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT; MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.

KEYED NOTES

1. ALL EMERGENCY AND EXIT FIXTURES TO HAVE A UL924 RELAY AND HAVE EMERGENCY POWER CONNECTED TO APPROPRIATE VOLTAGE INVERTER, LOCATED ON MECHANICAL PLATFORM 220.
2. S10 LIGHTS ARE MOUNTED VERTICALLY IN THESE LOCATIONS. SEE EL SHEETS FOR MOUNTING DETAILS.
3. ROUTE CONDUIT FROM LIGHTING PANEL TO INTERIOR JUNCTION BOX. PULL CONDUCTORS TO JUNCTION BOX. CONTRACTOR TO CONFIRM LOCATION OF INTERIOR JUNCTION BOX FOR CORRECT EXTERIOR LIGHT FIXTURE ELEVATION.

EXIT LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL	LAMP	MANUFACTURER	MOD EL	COMMENTS
XP1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XP2	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-SIDED	277 V/1-4 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XPR	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, RIGHT ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XS1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-WAY ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL

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Signature

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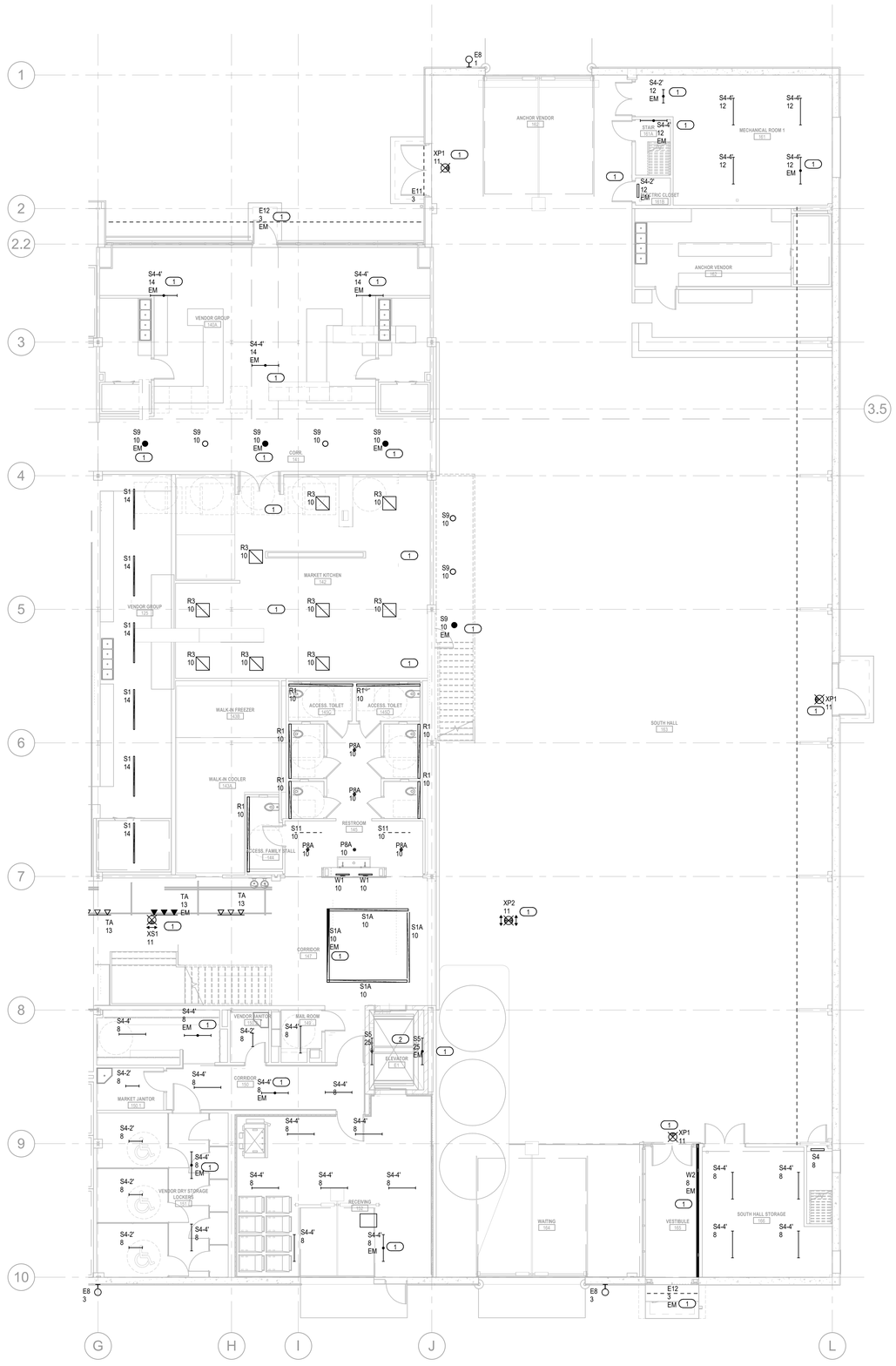
LEVEL 1 LIGHTING POWER PLAN - NORTH

E111N



1 LEVEL 1 LIGHTING POWER PLAN - SOUTH

1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. SEE EL SHEETS FOR ALL CONTROLS, TYPES, AND MOUNTING INSTRUCTIONS .

C. POWER TO ALL TAPE -TYPE LIGHTING SHALL BE TO THE REMOTE DRIVER, WITH LOW VOLTAGE WIRING FROM THE DRIVER TO THE LED TAPE. SEE EL SHEETS AND/OR FIELD VERIFY DRIVER LOCATIONS.

D. CIRCUIT DESIGNATIONS FOR ALL NON-TRACK LIGHTING INDICATE CIRCUITS ON PANEL HPN-24-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-H. SEE SHEET EL-003 FOR DETAILS.

E. CIRCUIT DESIGNATIONS FOR ALL T-TYPE TRACK LIGHTING INDICATE CIRCUITS ON PANEL LPN-29-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-L. SEE SHEET EL-003 FOR DETAILS.

F. ALL EMERGENCY AND EXIT LIGHTS SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM INVERTERS, LOCATED ON MECHANICAL PLATFORM 220.

G. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT; MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.

KEYED NOTES

1. ALL EMERGENCY AND EXIT FIXTURES SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM APPROPRIATE VOLTAGE INVERTER, LOCATED ON MECHANICAL PLATFORM 220.
2. LIGHT FIXTURES IN ELEVATOR PIT. SEE DETAIL ON SHEET E502.

EXIT LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL	LAMP	MANUFACTURER	MOD EL	COMMENTS
XP1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XP2	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-SIDED	277 V/1-4 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XPR	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, RIGHT ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XS1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-WAY ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL

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Commercial Kitchen Design

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Project No: M10.19.04

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Engineer Seal

STATE OF WISCONSIN
DARREN R. DICKENSON
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PLYMOUTH
WISCONSIN
PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 1 LIGHTING POWER PLAN - SOUTH

E111S

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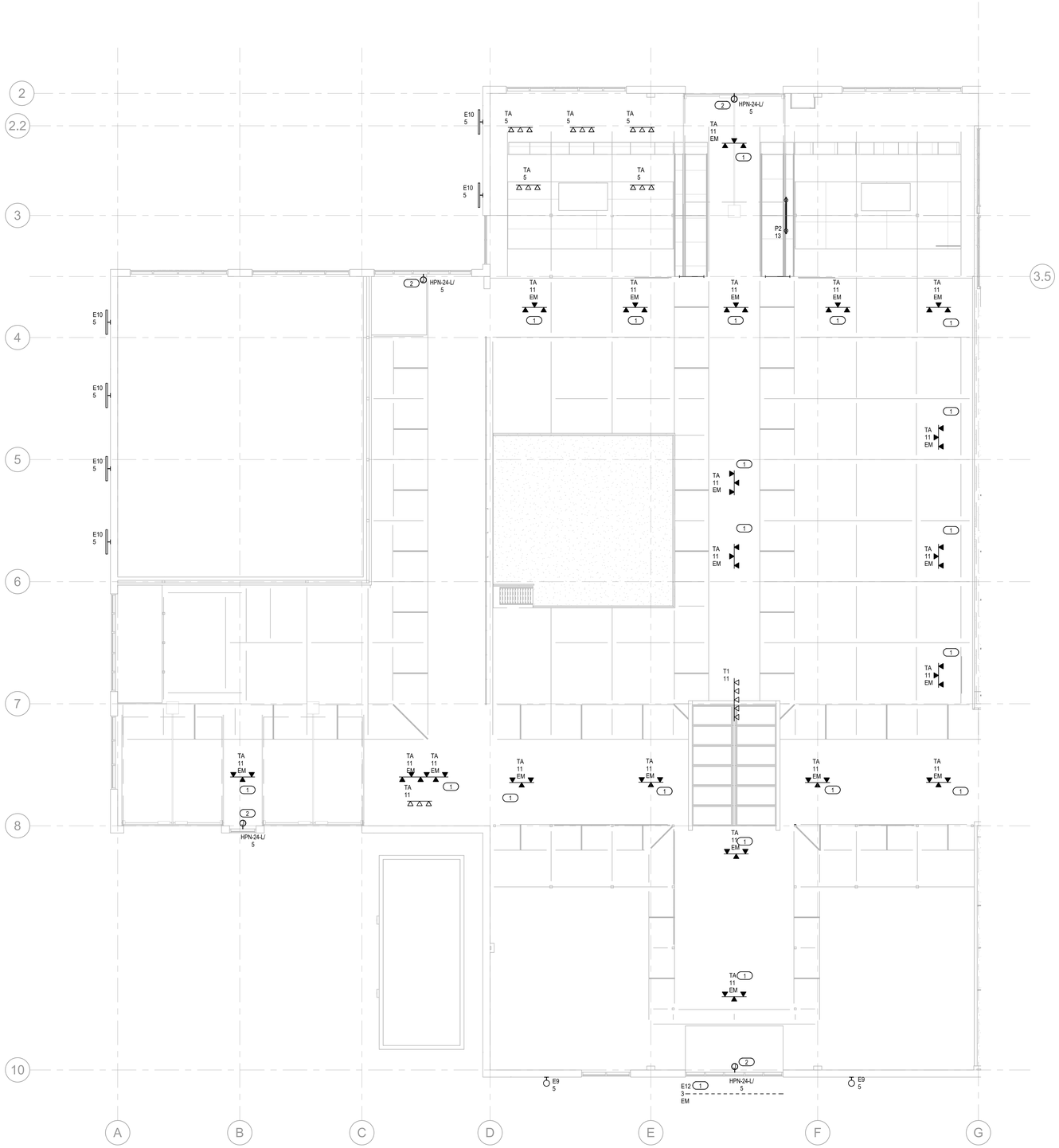

1 LEVEL 2 LIGHTING POWER PLAN - NORTH

1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. SEE EL SHEETS FOR ALL CONTROLS, TYPES, AND MOUNTING INSTRUCTIONS .

C. POWER TO ALL TAPE -TYPE LIGHTING SHALL BE TO THE REMOTE DRIVER, WITH LOW VOLTAGE WIRING FROM THE DRIVER TO THE LED TAPE. SEE EL SHEETS AND/OR FIELD VERIFY DRIVER LOCATIONS.

D. CIRCUIT DESIGNATIONS FOR ALL NON-TRACK LIGHTING INDICATE CIRCUITS ON PANEL HPN-24-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-H. SEE SHEET EL-003 FOR DETAILS.

E. CIRCUIT DESIGNATIONS FOR ALL T-TYPE TRACK LIGHTING INDICATE CIRCUITS ON PANEL LPN-26-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-L. SEE SHEET EL-003 FOR DETAILS.

F. ALL EMERGENCY AND EXIT LIGHTS SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM INVERTERS, LOCATED ON MECHANICAL PLATFORM 220.

G. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT; MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.

KEYED NOTES

1. ALL EMERGENCY AND EXIT FIXTURES TO HAVE A UL924 RELAY AND HAVE EMERGENCY POWER CONNECTED TO APPROPRIATE VOLTAGE INVERTER, LOCATED ON MECHANICAL PLATFORM 220.
2. ROUTE CONDUIT FROM LIGHTING PANEL TO INTERIOR JUNCTION BOX. PULL CONDUCTORS TO JUNCTION BOX. CONTRACTOR TO CONFIRM LOCATION OF INTERIOR JUNCTION BOX FOR CORRECT EXTERIOR LIGHT FIXTURE ELEVATION.

EXIT LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL	LAMP	MANUFACTURER	MOD EL	COMMENTS
XP1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XP2	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-SIDED	277 V/1-4 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XPR	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, RIGHT ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XS1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-WAY ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL

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DARREN R. DICKENSON
E-36352
PLYMOUTH
WISCONSIN
PROFESSIONAL ENGINEER

Signature _____

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 2 LIGHTING POWER PLAN - NORTH

E112N

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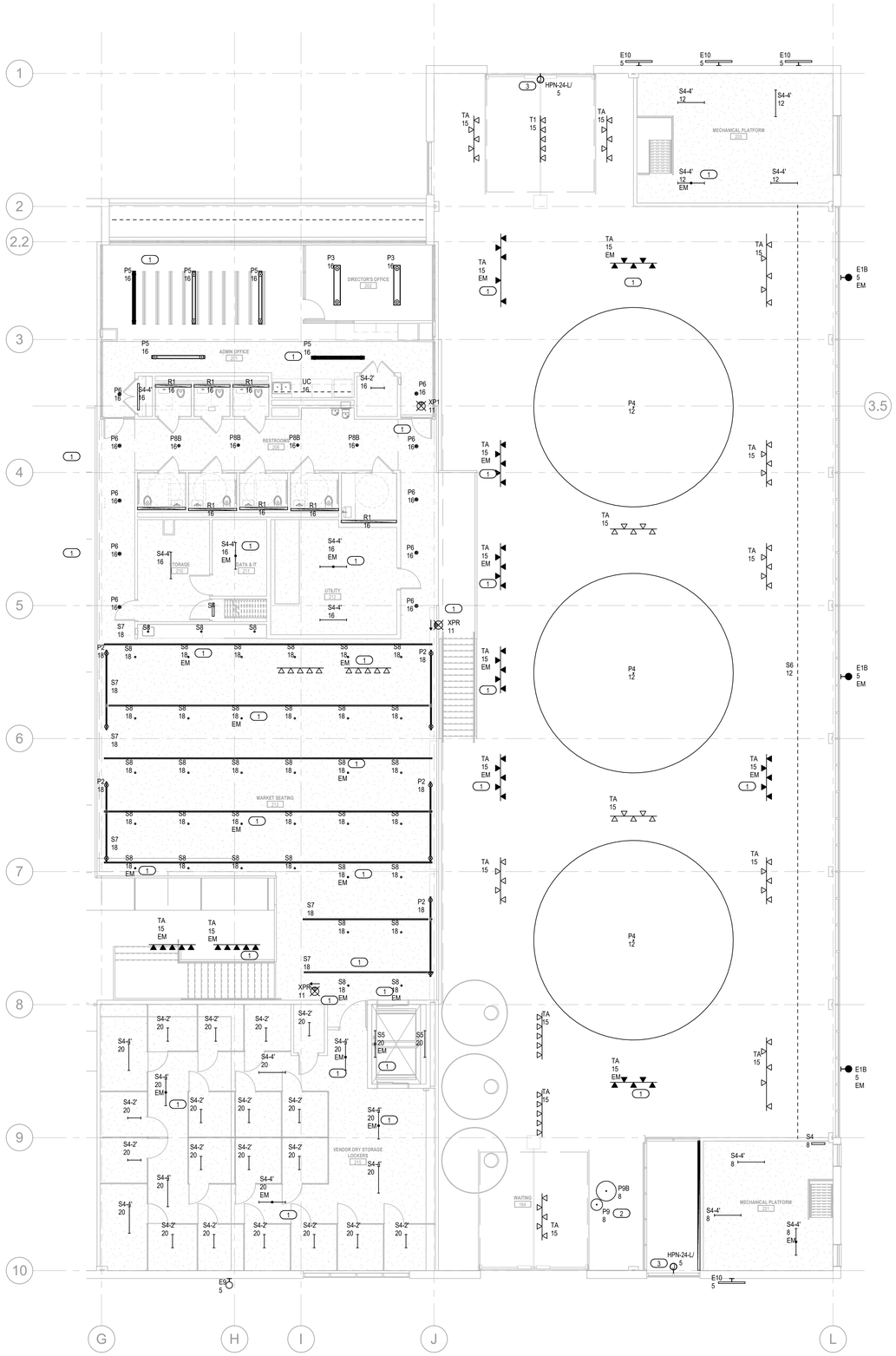

1 LEVEL 2 LIGHTING POWER PLAN - SOUTH

1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. SEE EL SHEETS FOR ALL CONTROLS, TYPES, AND MOUNTING INSTRUCTIONS .

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D. CIRCUIT DESIGNATIONS FOR ALL NON-TRACK LIGHTING INDICATE CIRCUITS ON PANEL HPN-24-L, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-H. SEE SHEET EL-003 FOR DETAILS.

E. CIRCUIT DESIGNATIONS FOR ALL T-TYPE TRACK LIGHTING INDICATE CIRCUITS ON PANEL LPN-264, LOCATED ON THE MEZZANINE LEVEL SOUTH. CIRCUITS SHALL RUN THROUGH CONTROL PANEL LRP-L. SEE SHEET EL-003 FOR DETAILS.

F. ALL EMERGENCY AND EXIT LIGHTS SHALL HAVE A UL924 RELAY WITH EMERGENCY POWER PROVIDED FROM INVERTERS, LOCATED ON MECHANICAL PLATFORM 220.

G. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT; MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED.

KEYED NOTES

1. ALL EMERGENCY AND EXIT FIXTURES TO HAVE A UL924 RELAY AND HAVE EMERGENCY POWER CONNECTED TO APPROPRIATE VOLTAGE INVERTER, LOCATED ON MECHANICAL PLATFORM 220.
2. ROUTE CONDUIT FOR LIGHT POWER AND CONTROLS ALONG ARM OF HOIST FROM ATTACHMENT POINT OF HOIST ON WALL TO P9 FIXTURES AT END.
3. ROUTE CONDUIT FROM LIGHTING PANEL TO INTERIOR JUNCTION BOX. PULL CONDUCTORS TO JUNCTION BOX. CONTRACTOR TO CONFIRM LOCATION OF INTERIOR JUNCTION BOX FOR CORRECT EXTERIOR LIGHT FIXTURE ELEVATION.

EXIT LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	ELECTRICAL	LAMP	MANUFACTURER	MOD EL	COMMENTS
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XP2	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-SIDED	277 V/1-4 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XPR	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, RIGHT ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL
XS1	EDGE-LIT ACRYLIC, ALUMINUM HOUSING, 2-WAY ARROW	277 V/1-2 VA	LED, RED	LITHONIA CONTECH LIGHTING	LRP RENB	OR APPROVED EQUAL

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MADISON PUBLIC MARKET

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Project No: M10.19.04

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Engineer Seal

WISCONSIN
DARREN R. DICKENSON
E-36352
PLYMOUTH
PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 2 LIGHTING POWER PLAN - SOUTH

E112S

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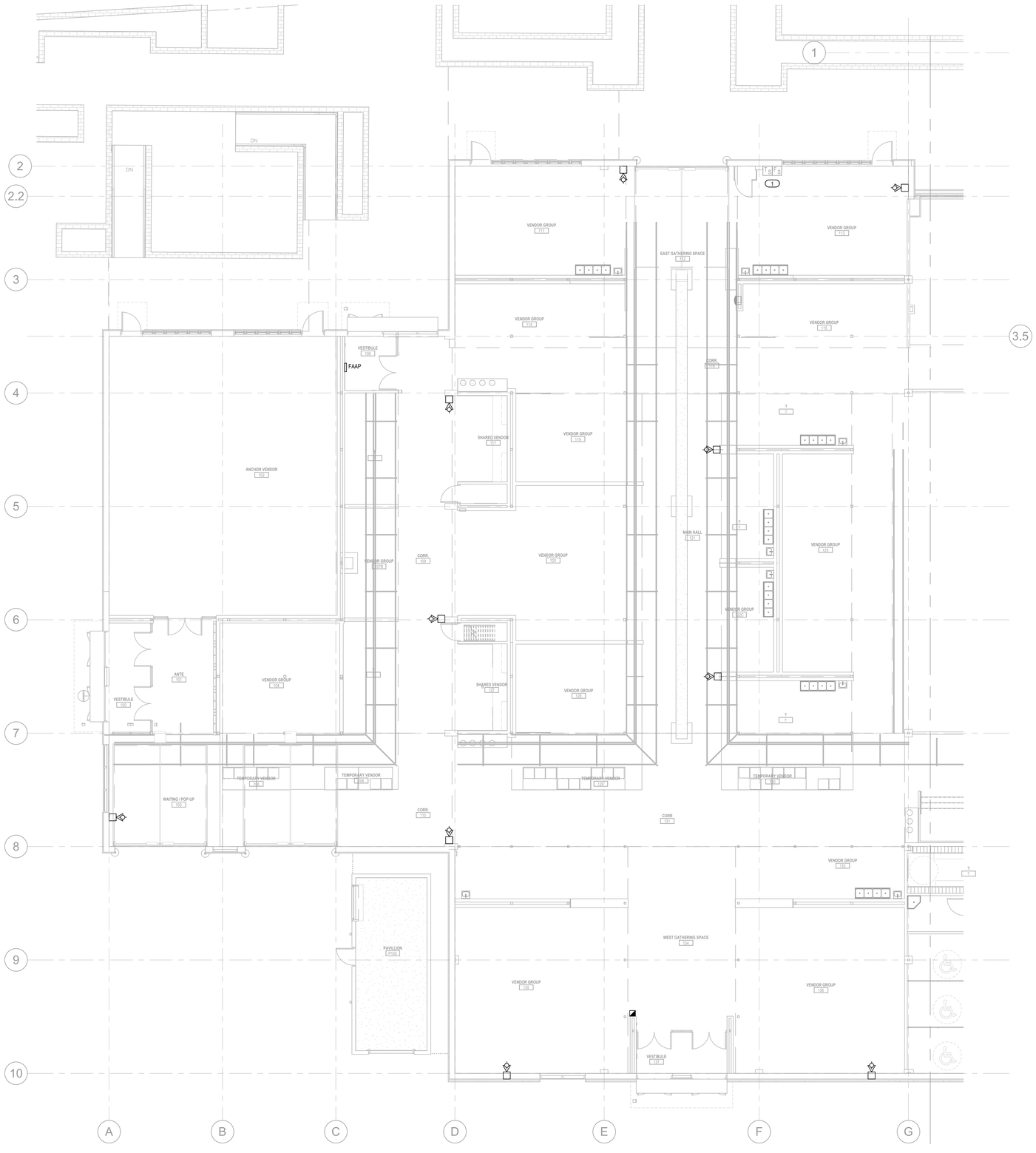

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED IN SUBMITTAL DRAWINGS.

KEYED NOTES

(1) APPROXIMATE LOCATION OF EXISTING INCOMING FIRE MAINS. CONNECT EXISTING TAMPER AND FLOW SWITCHES TO NEW FIRE ALARM CONTROL PANEL.

1 LEVEL 1 FIRE DETECTION PLAN - NORTH
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER

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LEVEL 1 FIRE DETECTION PLAN - NORTH

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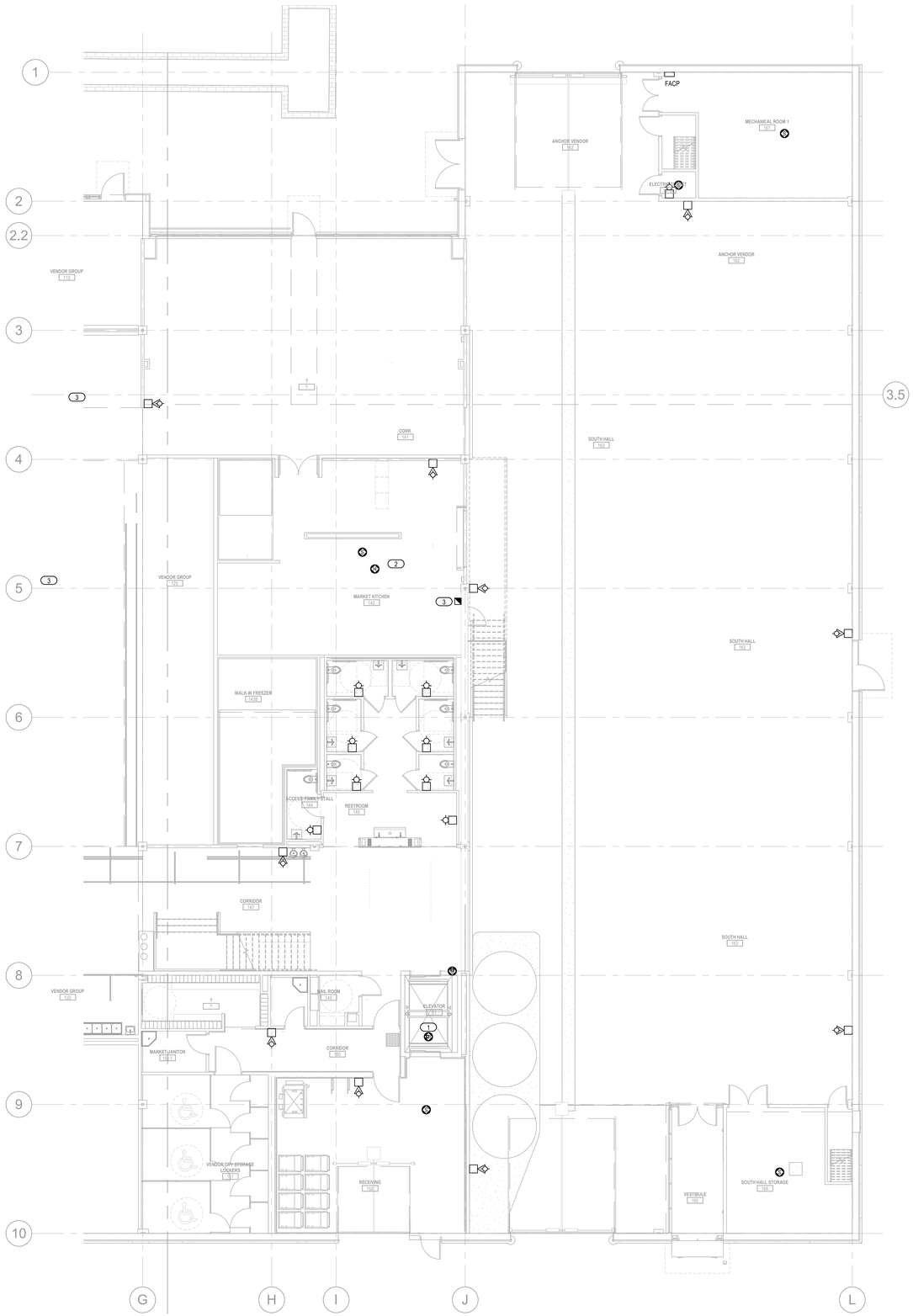

1 LEVEL 1 FIRE DETECTION PLAN - SOUTH

1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E000 FOR ADDITIONAL GENERAL NOTES THAT APPLY.

B. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED IN SUBMITTAL DRAWINGS.

KEYED NOTES

1. SMOKE DETECTOR IN ELEVATOR PIT. SEE DETAIL ON SHEET E502.
2. HEAT DETECTOR IN MARKET KITCHEN SHALL BE RATE-OF-RISE TYPE AND TIED TO ANSUL SYSTEM IN KITCHEN HOODS.
3. PROVIDE PULL STATION CONNECTED TO ANSUL SYSTEM. COORDINATE WITH FIRE PROTECTION CONTRACTOR.

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LEVEL 1 FIRE DETECTION PLAN - SOUTH

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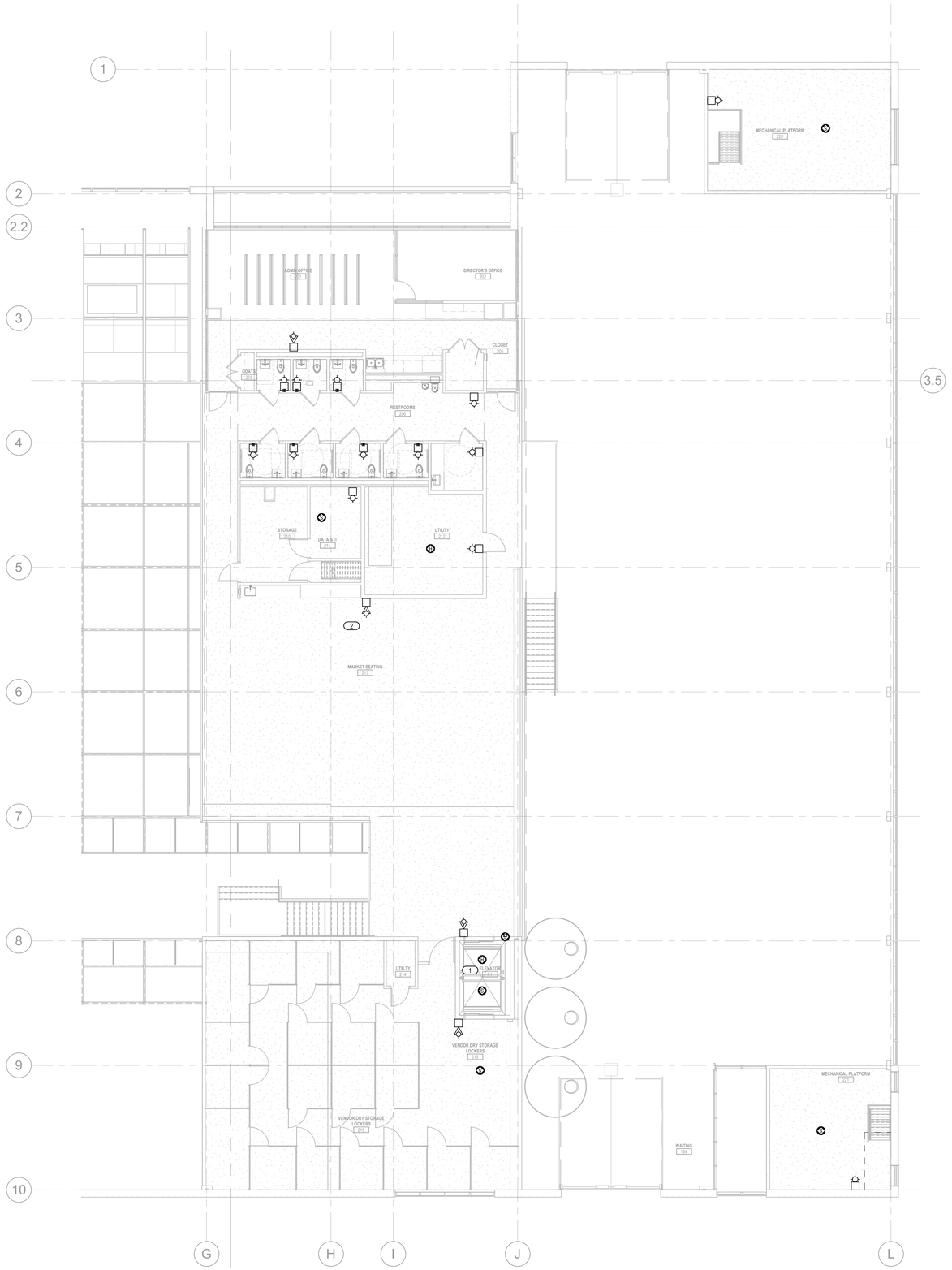

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B. FIRE ALARM INSTALLER IS RESPONSIBLE TO SELECT STROBE CANDELA BASED ON THE LOCATIONS SHOWN. CANDELA VALUES SHALL BE INCLUDED IN SUBMITTAL DRAWINGS.

KEYED NOTES

1. SMOKE AND HEAT DETECTOR AT TOP OF ELEVATOR SHAFT. SEE DETAIL ON SHEET E502.
2. KEEP NOTIFICATION DEVICE TO FAR LEFT OF WALL.

1 MEZZANINE FIRE DETECTION PLAN - SOUTH

1/8" = 1'-0"

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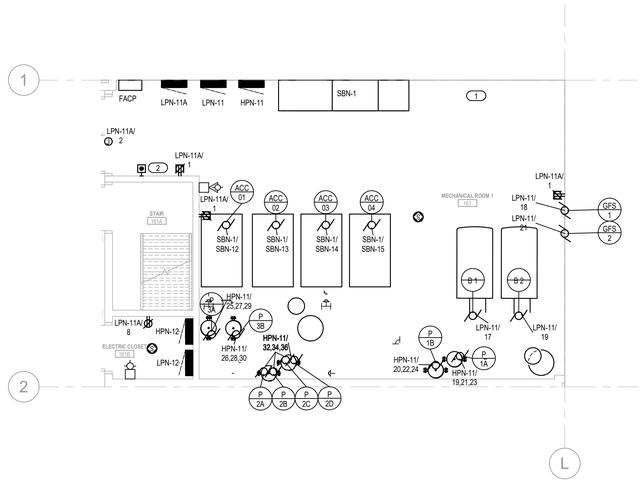
MEZZANINE LEVEL
FIRE DETECTION
PLAN - SOUTH

E202S



1 ENLARGED SOUTH MECHANICAL ROOM

1/4" = 1'-0"

KEYED NOTES

1	INCOMING SERVICE METER AND OTHER METERS LOCATED IN THIS AREA. COORDINATE LOCATIONS WITH WATER METERS. ALSO IN THIS AREA. SEE ONE-LINE DIAGRAM ON SHEET E501 FOR CONNECTION DETAILS.
2	PROVIDE EMERGENCY POWER OFF (EPO) BUTTON ON WALL, WIRED TO SHUT DOWN BOILERS.

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ENLARGED
ELECTRICAL PLANS

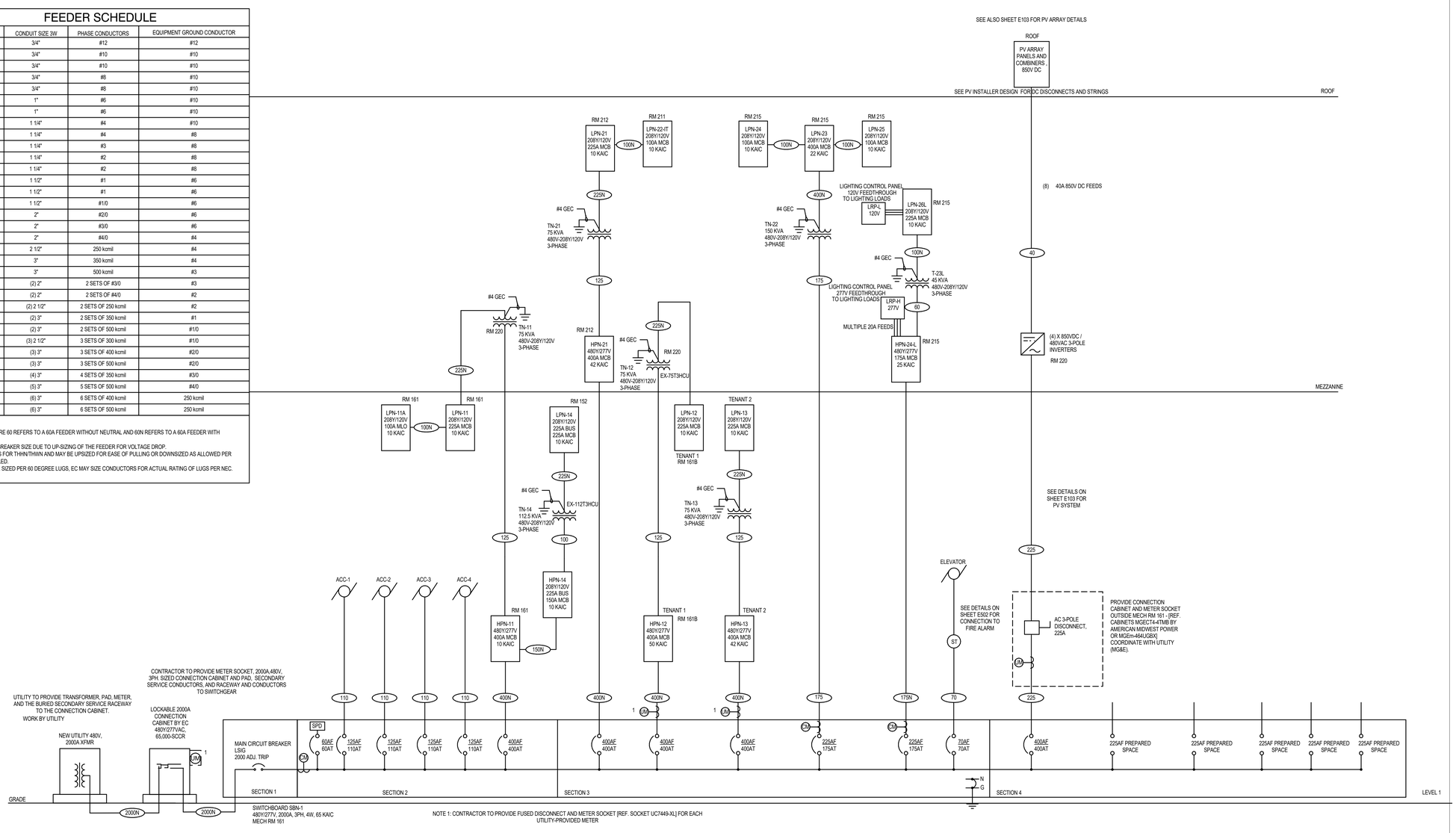
E401

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#6
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil

NOTES:

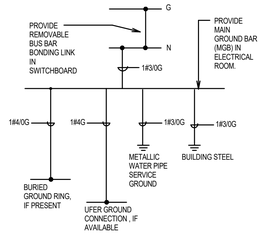
1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.



1 One Line Riser

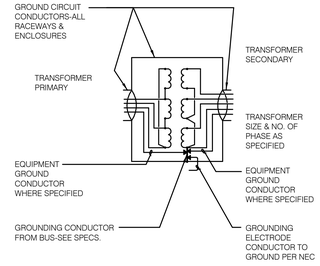
NO SCALE

LOCATION / ID	VOLTAGE	CALCULATED FAULT AMPS RMS SYMM.	SCCR, AMPS RMS SYMM.	VOLTAGE DROP, %	PHYSICAL LOCATION
UTILITY TX PRIMARY	13,800Y/7,967	8,000 (250-MVA BASE)	-	-	OUTSIDE BUILDING
UTILITY TX SECONDARY	480Y/277	45,200	-	1.60	OUTSIDE BUILDING
CONNECTION CABINET	480Y/277	45,200	65,000	1.60	OUTSIDE BUILDING
SBN-1 (MAIN SWGR)	480Y/277	44,781	65,000	2.10	RM 161
HPN-11	480Y/277	8,163	10,000	3.52	RM 161
HPN-12	480Y/277	42,986	50,000	2.15	RM 161B
HPN-13	480Y/277	33,157	42,000	2.34	RM 102
HPN-14	480Y/277	3,735	10,000	4.04	RM 152
HPN-21	480Y/277	37,687	42,000	2.18	RM 212
HPN-24-L	480Y/277	21,186	25,000	2.24	RM 215
LPN-11	208Y/120	4,455	10,000	6.60	RM 161
LPN-11A	208Y/120	3,111	10,000	7.15	RM 161
LPN-12	208Y/120	5,318	10,000	4.92	RM 161B
LPN-13	208Y/120	5,243	10,000	5.12	RM 102
LPN-14	208Y/120	2,972	10,000	4.30	RM 152
LPN-15	208Y/120	2564	10,000	5.16	RM 135
LPN-21	208Y/120	5,266	10,000	3.99	RM 212
LPN-22-IT	208Y/120	1,081	10,000	4.12	RM 211
LPN-23	208Y/120	10,684	22,000	3.65	RM 215
LPN-24	208Y/120	4,350	10,000	4.57	RM 215
LPN-25	208Y/120	4,350	10,000	4.40	RM 215
LPN-26L	208Y/120	2,574	10,000	3.37	RM 215
ACC-1	480Y/277	34,375	35,000	2.20	RM 161
ACC-2	480Y/277	34,676	35,000	2.21	RM 161
ACC-3	480Y/277	34,676	35,000	2.21	RM 161
ACC-4	480Y/277	34,676	35,000	2.21	RM 161
ELEV	480Y/278	8,140	10,000	3.06	ELEV



3 POWER GROUNDING DIAGRAM

NO SCALE



2 DRY TYPE TRANSFORMER GROUNDING

NO SCALE

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Commercial Kitchen Design

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Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
200 N First St, Madison, WI 53704

Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

DARREN R. DICKENSON E-36352 PLYMOUTH WISCONSIN ELECTRICAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

BID DOCUMENTS

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Mark	Date	Description
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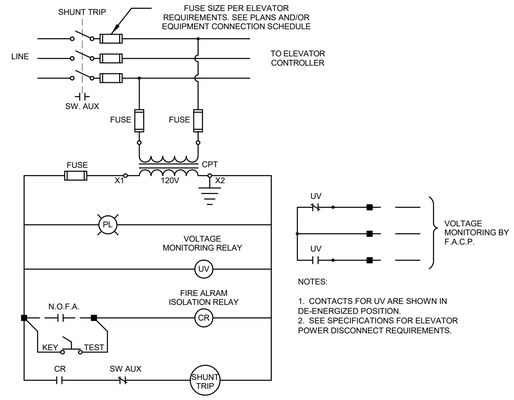
ELECTRICAL
ONE-LINE DIAGRAM

E501

LEGEND

N.O.F.A.	-NORMALLY OPEN FIRE ALARM CONTACTS SUPPLIED FROM THE FIRE ALARM SYSTEM. INITIATE THE SHUNT TRIP UPON DETECTOR SIGNAL FROM ELEVATOR MECHANICAL ROOM (E.G. OUTPUT FROM AIMR WHEN INTERFACED WITH A DIGITAL ADDRESSABLE FIRE ALARM SYSTEM).
SHUNT TRIP	-SOLENOID FOR REMOTE TRIP OF SWITCH. WHICH IS ACTIVATED BE THE CLOSING OF THE FIRE ALARM CONTACTS OR KEY TEST SWITCH.
CR	-CONTROL RELAY. USED TO ISOLATE THE N.O.F.A. CONTACTS FROM THE DUTY OF THE SHUNT TRIP
UV	-FIRE ALARM UNDER VOLTAGE MONITORING RELAY USED TO MONITOR PRESENCE OF VOLTAGE IN SWITCH FROM FIRE ALARM CONTROL PANEL
PL	-PILOT LIGHT TO VISUALLY INDICATE PRESENCE OF VOLTAGE ON OUTSIDE OF SWITCH ENCLOSURE
CPT	-CONTROL POWER TRANSFORMER USED TO STEP DOWN LINE VOLTAGE TO 120VAC TO POWER SHUNTTRIP COIL
SW AUX.	-NORMALLY CLOSED CONTACT WHEN SWITCH IS CLOSED. OPENS AS POWER SWITCH OPENS
KEY TEST	-KEY-TO-TEST SWITCH USED TO OPERATE SHUNT TRIP FROM OUTSIDE OF SWITCH ENCLOSURE. MECHANICALLY INTERLOCKED AUXILIARY CONTACT
■	-TERMINAL BLOCK CONNECTION FOR EXTERNAL FIELD WIRING TO FIRE ALARM SYSTEM

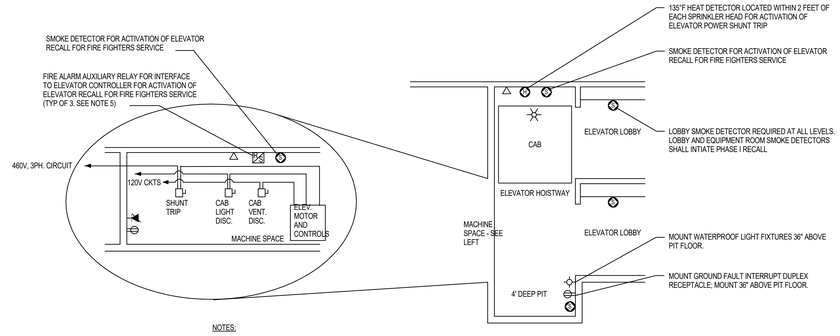


NOTES:

1. CONTACTS FOR UV ARE SHOWN IN DE-ENERGIZED POSITION.
2. SEE SPECIFICATIONS FOR ELEVATOR POWER DISCONNECT REQUIREMENTS.

2 ELEVATOR SHUNT DETAIL

12" = 1'-0"



NOTES:

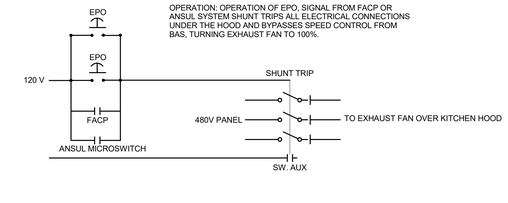
1. ANSI/ASME A17.1-1996/A17.1a-1997/A17.1b-1998, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
2. THE HOISTWAY AND MACHINE SPACE FOR THIS INSTALLATION ARE SPRINKLED. THEREFORE, ANSI/ASMEA17.1 REQUIRES THAT THE MAIN POWER SUPPLY TO THE AFFECTED ELEVATOR BE AUTOMATICALLY DISCONNECTED UPON OR PRIOR TO APPLICATION OF WATER
3. IN ACCORDANCE WITH SECTION 3-9.4 OF ANSI/NFPA 72, NATIONAL FIRE ALARM CODE, HEAT DETECTORS USED TO SHUT DOWN ELEVATOR POWER PRIOR TO SPRINKLER OPERATION SHALL HAVE BOTH LOWER TEMPERATURE RATING AND A HIGHER SENSITIVITY THAN THE SPRINKLER HEADS. COORDINATE REQUIREMENTS WITH INSTALLATION OF FIRE PROTECTION SYSTEM.
4. FIRE ALARM SYSTEM SMOKE DETECTORS SHALL BE INSTALLED IN ELEVATOR LOBBIES, ELEVATOR HOISTWAY AND NEAR ELEVATOR MACHINE SPACE TO INITIATE ELEVATOR RECALL FOR FIRE FIGHTERS SERVICE IN ACCORDANCE WITH RULE 211.3 OF ANSI/ASME A17.1 AND SECTION 3-9.3 OF ANSI/NFPA 72.
5. IN ACCORDANCE WITH SECTION 3-9.3.7 OF ANSI/NFPA 72, THREE (3) EACH FIRE ALARM AUXILIARY RELAYS SHALL BE PROVIDED NEAR THE ELEVATOR MACHINE SPACE (BUT NOT IN HOISTWAY) TO INTERFACE WITH THE ELEVATOR CONTROLLER. EACH RELAY SHALL PROVIDE THE FOLLOWING SIGNAL (OPERATION OF CONTACTS), RESPECTIVELY:

A. SMOKE DETECTOR IN THE DESIGNATED (PRIMARY) ELEVATOR LOBBY IS ACTIVATED.
B. SMOKE DETECTOR IN ANY OF THE ELEVATOR LOBBIES EXCEPT THE DESIGNATED (PRIMARY) LOBBY IS ACTIVATED.
C. SMOKE OR HEAT DETECTOR(S) IN THE HOISTWAY AND/OR ELEVATOR MACHINE ROOM IS ACTIVATED.

SYMBOLS LEGEND	
△	SPRINKLER HEAD
Ⓢ	SMOKE DETECTOR
Ⓗ	HEAT DETECTOR
□	SHUNT TRIP
☼	WALL MOUNTED LIGHT
⇕	DUPLEX RECEPTACLE
✆	TELEPHONE LINE

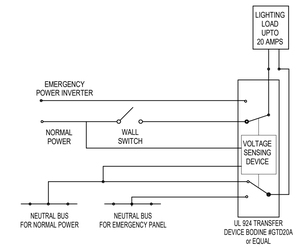
1 ELEVATOR DETAILS

1/8" = 1'-0"



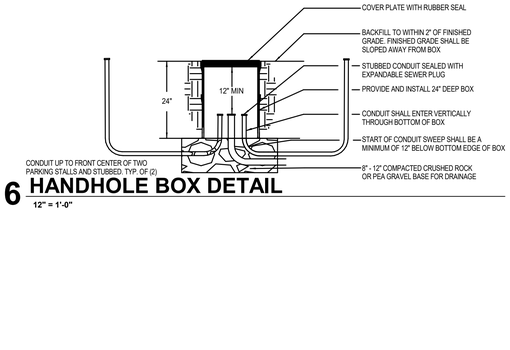
4 MARKET KITCHEN SHUNT DETAILS

12" = 1'-0"



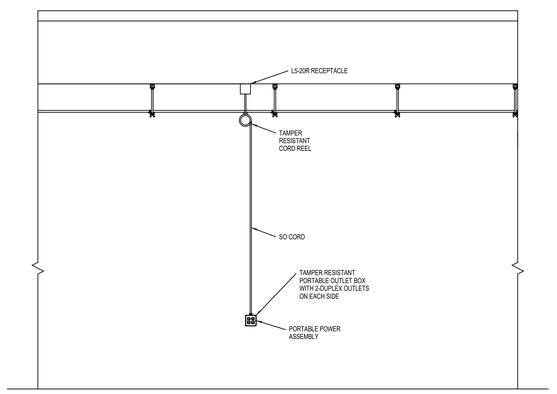
3 EMERGENCY LIGHTING TRANSFER DETAIL

1/8" = 1'-0"



6 HANDHOLE BOX DETAIL

12" = 1'-0"



5 MARKET KITCHEN CORD REEL

1/8" = 1'-0"

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Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET
200 N First St, Madison, WI 53704

Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
DARREN R. DICKENSON
E-36352
PLYMOUTH
PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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ELECTRICAL DETAILS

E502

PANELBOARD: HPN-13

BUS AMPACITY:
Supply From: SBN-1
Mounting: Surface
Top/Bottom Feed
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 42 kAIC
Mains: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-13	20 A	3	0.0	0.0					--	--	Space	2
3	--	--	--			0.0	0.0			--	--	Space	4
5	--	--	--					0.0	0.0	--	--	Space	6
7	Space	--	--	0.0	0.0					--	--	Space	8
9	Space	--	--			0.0	0.0			--	--	Space	10
11	Space	--	--					0.0	0.0	--	--	Space	12
13	Space	--	--	0.0	0.0					--	--	Space	14
15	Space	--	--			0.0	0.0			--	--	Space	16
17	Space	--	--					0.0	0.0	--	--	Space	18
19	Space	--	--	0.0	0.0					--	--	Space	20
21	Space	--	--			0.0	0.0			--	--	Space	22
23	Space	--	--					0.0	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
			Total Load:	0.0 kVA		0.0 kVA		0.0 kVA					
			Total Amps:	0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	0 A

Notes:
PANEL FOR ANCHOR TENANT

PANELBOARD: LPN-13

BUS AMPACITY:
Supply From: T-13
Mounting: Surface
Top/Bottom Feed
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Space	--	--	0.0	0.0					--	--	Space	2
3	Space	--	--			0.0	0.0			--	--	Space	4
5	Space	--	--					0.0	0.0	--	--	Space	6
7	Space	--	--	0.0	0.0					--	--	Space	8
9	Space	--	--			0.0	0.0			--	--	Space	10
11	Space	--	--					0.0	0.0	--	--	Space	12
13	Space	--	--	0.0	0.0					--	--	Space	14
15	Space	--	--			0.0	0.0			--	--	Space	16
17	Space	--	--					0.0	0.0	--	--	Space	18
19	Space	--	--	0.0	0.0					--	--	Space	20
21	Space	--	--			0.0	0.0			--	--	Space	22
23	Space	--	--					0.0	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
31	Space	--	--	0.0	0.0					--	--	Space	32
33	Space	--	--			0.0	0.0			--	--	Space	34
35	Space	--	--					0.0	0.0	--	--	Space	36
37	Space	--	--	0.0	0.0					--	--	Space	38
39	Space	--	--			0.0	0.0			--	--	Space	40
41	Space	--	--					0.0	0.0	--	--	Space	42
			Total Load:	0.0 kVA		0.0 kVA		0.0 kVA					
			Total Amps:	0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	0 A

Notes:
PANEL FOR ANCHOR TENANT.

PANELBOARD: HPN-14

BUS AMPACITY: 225 A
Supply From: HPN-11
Mounting: Surface
Top/Bottom Feed
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RAINWATER SKID	20 A	3	3.3	0.1					3	20 A	ELEVATOR SUMP PUMP	2
3	--	--	--			3.3	0.1			--	--	--	4
5	--	--	--					3.3	0.1	--	--	--	6
7	CARDBOARD BALER	20 A	3	2.5	1.3					3	20 A	SCISSOR LIFT POWER	8
9	--	--	--			2.5	1.3			--	--	--	10
11	--	--	--					2.5	1.3	--	--	--	12
13	TRASH COMPACTOR TC-01	20 A	3	1.3	1.3					3	20 A	TRASH COMPACTOR TC-02	14
15	--	--	--			1.3	1.3			--	--	--	16
17	--	--	--					1.3	1.3	--	--	--	18
19	T-14	100 A	3	8.4	0.0					--	--	Space	20
21	--	--	--			7.5	0.0			--	--	Space	22
23	--	--	--					3.1	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
			Total Load:	18.1 kVA		17.3 kVA		12.8 kVA					
			Total Amps:	68 A		65 A		46 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	30310 VA	108.25%	32810 VA		
Receptacle	3780 VA	100.00%	3780 VA	Total Conn. Load:	48140 VA
Power	14400 VA	100.00%	14400 VA	Total Est. Demand:	50639 VA
				Total Conn. Current:	58 A
				Total Est. Demand Current:	61 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	61 A

Notes:
PANEL FOR HOUSE SYSTEMS EXTERIOR AND NEAR LOADING DOCK. 225A BUS, 125A MCB.

PANELBOARD: HPN-12

BUS AMPACITY:
Supply From: SBN-1
Mounting: Surface
Top/Bottom Feed
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 20 kAIC
Mains: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-12	20 A	3	0.7	0.0					--	--	Space	2
3	--	--	--			0.0	0.0			--	--	Space	4
5	--	--	--					0.0	0.0	--	--	Space	6
7	Space	--	--	0.0	0.0					--	--	Space	8
9	Space	--	--			0.0	0.0			--	--	Space	10
11	Space	--	--					0.0	0.0	--	--	Space	12
13	Space	--	--	0.0	0.0					--	--	Space	14
15	Space	--	--			0.0	0.0			--	--	Space	16
17	Space	--	--					0.0	0.0	--	--	Space	18
19	Space	--	--	0.0	0.0					--	--	Space	20
21	Space	--	--			0.0	0.0			--	--	Space	22
23	Space	--	--					0.0	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
			Total Load:	0.7 kVA		0.0 kVA		0.0 kVA					
			Total Amps:	3 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	720 VA	100.00%	720 VA		
				Total Conn. Load:	720 VA
				Total Est. Demand:	720 VA
				Total Conn. Current:	1 A
				Total Est. Demand Current:	1 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	1 A

Notes:
PANEL FOR ANCHOR TENANT.

PANELBOARD: LPN-12

BUS AMPACITY:
Supply From: T-12
Mounting: Surface
Top/Bottom Feed
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 50 kAIC
Mains: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCPT: FLOOR TRENCH	20 A	1	0.7	0.0					--	--	Space	2
3	Space	--	--			0.0	0.0			--	--	Space	4
5	Space	--	--					0.0	0.0	--	--	Space	6
7	Space	--	--	0.0	0.0					--	--	Space	8
9	Space	--	--			0.0	0.0			--	--	Space	10
11	Space	--	--					0.0	0.0	--	--	Space	12
13	Space	--	--	0.0	0.0					--	--	Space	14
15	Space	--	--			0.0	0.0			--	--	Space	16
17	Space	--	--					0.0	0.0	--	--	Space	18
19	Space	--	--	0.0	0.0					--	--	Space	20
21	Space	--	--			0.0	0.0			--	--	Space	22
23	Space	--	--					0.0	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
31	Space	--	--	0.0	0.0					--	--	Space	32
33	Space	--	--			0.0	0.0			--	--	Space	34
35	Space	--	--					0.0	0.0	--	--	Space	36
37	Space	--	--	0.0	0.0					--	--	Space	38
39	Space	--	--			0.0	0.0			--	--	Space	40
41	Space	--	--					0.0	0.0	--	--	Space	42
			Total Load:	0.7 kVA		0.0 kVA		0.0 kVA					
			Total Amps:	6 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	720 VA	100.00%	720 VA		
				Total Conn. Load:	720 VA
				Total Est. Demand:	720 VA
				Total Conn. Current:	2 A
				Total Est. Demand Current:	2 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	2 A

Notes:
PANEL FOR ANCHOR TENANT.

PANELBOARD: LPN-11A

BUS AMPACITY: 225 A
Supply From: LPN-11
Mounting: Surface
Top/Bottom Feed
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCPT MECH ROOM 161	20 A	1	0.5	0.2					1	20 A	DOOR LOCK POWER S	2
3	DOOR LOCK POWER N	20 A	1			0.0	1.1			1	20 A	RCPT: N EXTERIOR	4
5	RCPT: N EXTERIOR SEATING AREA	20 A	1					0.4	0.5	1	20 A	RCPT: S EXTERIOR SEATING AREA	6
7	RCPT: S EXTERIOR	20 A	1	1.4	0.2					1	20 A	RCPT: TELECOM RM 160	8
9	RCPT: S HALL WALL	20 A	1			1.1	1.4			1	20 A	RCPT: S HALL FLOOR TRENCH	10
11	RCPT: S HALL WALL	20 A	1					1.1	1.4	1	20 A	RCPT: S HALL FLOOR TRENCH	12
13	RCPT: S HALL FLOOR BOX	20 A	1	1.1	1.4					1	20 A	RCPT: DBL DECK CONVECTION OVEN	14
15	RCPT: BRAISING PAN & TILTING KETTLE	20 A	1			0.7	0.6			1	20 A	RCPT: GRIDDLE	16
17	RCPT: DBL DECK CONVECTION OVEN	20 A	1					1.4	0.6	1	20 A	RCPT: RANGE	18
19	RCPT: CHARBROILER	20 A	1	0.6	4.7					2	60 A	RCPT: DISHWASHER	20
21	RCPT: ICE MACHINE	20 A	2			0.6	4.7			--	--	--	22
23	--	--	--					0.6	0.8	2	20 A	DISPOSAL	24
25	RCPT: W KITCHEN WALL	20 A	1	1.1	0.8					--	--	--	26
27	RCPT: S KITCHEN WALL	20 A	1			0.7	1.1			1	20 A	RCPT: E KITCHEN WALL	28
29	RESTROOM RECPT, FAUCET SENSORS	20 A	1					1.4	0.0	1	20 A	RCPT: MARKET KITCHEN CORD REELS	30
31	RCPT: E GATHERING SPACE 112	20 A	1	0.7	0.0					1	20 A	RCPT: MARKET KITCHEN CORD REELS	32
33	RCPT: NE EXTERIOR	20 A	1			0.7	0.7			1	20 A	Receptacle	34
35	RCPT: VENDOR 120 FLOOR	20 A	1					0.7	1.1	1	20 A	RCPT: MAIN HALL TRENCH FLOOR	36
37	RCPT: CORRIDOR 141	20 A	1	0.7	0.7					1	20 A	RCPT: VENDOR 120 FLOOR	38
39	RCPT: S HALL STORAGE 166	20 A	1			1.1	0.9			1	20 A	RCPT: OUTSIDE MKT KITCHEN WALL	40
41	RCPT: CORR 109	20 A	1					0.9	0.2	1	20 A	Receptacle	42
43	Spare	20 A	1	0.0	0.0					1	20 A	Spare	44
45	Spare	20 A	1			0.0	0.0			1	20 A	Spare	46
47	Spare	20 A	1					0.0	0.0	1	20 A	Spare	48
49	Spare	20 A	1	0.0	0.0					1	20 A	Spare	50
51	Spare	20 A	1			0.0	0.0			1	20 A	Spare	52
53	Spare	20 A	1					0.0	0.0	1	20 A	Spare	54
55	Spare	20 A	1	0.0	0.0					1	20 A	Spare	56
57	Spare	20 A	1			0.0	0.0			1	20 A	Spare	58
59	Spare	20 A	1					0.0	0.0	1	20 A	Spare	60
			Total Load:	14.0 kVA		15.3 kVA		10.9 kVA					
			Total Amps:	120 A		131 A		91 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1600 VA	125.00%	2000 VA		
Receptacle	38597 VA	62.95%	24298 VA	Total Conn. Load:	40093 VA
				Total Est. Demand:	26173 VA
				Total Conn. Current:	111 A
				Total Est. Demand Current:	73 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	73 A

Notes:
THIS PANEL IS FOR IN-HOUSE LOADS. (CONTRACTOR TO UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: HPN-11

BUS AMPACITY:
Supply From: SBN-1
Mounting: Surface
Top/Bottom Feed
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-11	125 A	3	23.6	18.1					3	150 A	HPN-14	2
3	--	--	--			22.6	17.3			--	--	--	4
5	--	--	--					19.7	12.8	--	--	--	6
7	AIR HANDLER UNIT-1	30 A	3	4.8	1.5					3	20 A	AIR HANDLER UNIT -2S, -2R	8
9	--	--	--			4.8	1.5			--	--	--	10
11	--	--	--					4.8	1.5	--	--	--	12
13	LTG EMERG INVERTER	20 A	1	0.0	1.5					3	20 A	CIRCULATION FANS-9, -10, -11	14
15							1.5			--	--	--	16
17									1.5	--	--	--	18
19	HEATING PUMP P-1A	20 A	3	1.9	1.9					3	20 A	HEATING PUMP P-1B	20
21	--	--	--			1.9	1.9			--	--	--	22
23	--	--	--					1.9	1.9	--	--	--	24
25	CHILLED WATER PUMP P-3A	20 A	3	2.5	2.5					3	20 A	CHILLED WATER PUMP P-3B	26
27	--	--	--			2.5	2.5			--	--	--	28
29	--	--	--					2.5	2.5	--	--	--	30
31	MAKEUP AIR UNIT MAU-1	50 A	3	10.4	0.7					3	20 A	CHILLER PUMPS P-2,A,B,C,D	32
33	--	--	--			10.4	0.7			--	--	--	34
35	--	--	--					10.4	0.7	--	--	--	36
37	AIR CURTAIN AC-1	30 A	3	3.7	3.7					3	20 A	AIR CURTAIN AC-2	38
39	--	--	--			3.7	3.7			--	--	--	40
41	--	--	--					3.7	3.7	--	--	--	42
43	AIR CURTAIN AC-4	30 A	3	3.7	3.7					3	30 A	AIR CURTAIN AC-5	44
45	--	--	--			3.7	3.7			--	--	--	46
47	--	--	--					3.7	3.7	--	--	--	48
49	Space	--	--	0.0	3.7					3	30 A	AIR CURTAIN AC-6	50
51	Space	--	--			0.0	3.7			--	--	--	52
53	Space	--	--					0.0	3.7	--	--	--	54
55	Space	--	--	0.0	0.0					--	--	Space	56
57	Space	--	--			0.0	0.0			--	--	Space	58
59	Space	--	--					0.0	0.0	--	--	Space	60
			Total Load:	87.3 kVA		85.3 kVA		78.3 kVA					
			Total Amps:	319 A		312 A		283 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC Blowers	11315 VA	100.00%	11315 VA		
HVAC Cooling	86100 VA	100.00%	86100 VA	Total Conn. Load:	250880 VA
HVAC Heating	700 VA	100.00%	700 VA	Total Est. Demand:	237280 VA
Motor	72465 VA	103.45%	74965 VA	Total Conn. Current:	302 A
Receptacle	43981 VA	61.37%	26991 VA	Total Est. Demand Current:	285 A
Power	14400 VA	100.00%	14400 VA	Non-Coincident...	1 A
HVAC	24520 VA	100.00%	24520 VA	Total Est. Demand - NC:	285 A

Notes:
PANEL FOR HOUSE MECHANICAL SYSTEMS. (CONTRACTOR TO UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: LPN-11

BUS AMPACITY:
Supply From: T-11
Mounting: Surface
Top/Bottom Feed
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FAN COIL UNIT - 1 & BPI-1	20 A	1	0.6	0.6					1	20 A	FAN COIL UNIT -2 & BPI-2	2
3	FAN COIL UNIT - 3 & BPI-3	20 A	1			0.6	0.6			1	20 A	FAN COIL UNIT -4 & BPI-4	4
5	FAN COIL UNIT - 5 & BPI-5	20 A	1					0.6	0.6	1	20 A	FAN COIL UNIT -6 & BPI-6	6
7	FAN COIL UNIT - 7 & BPI-7	20 A	1	0.6	0.6					1	20 A	FAN COIL UNIT -8 * BPI-8	8
9	FAN COIL UNIT - 9 & BPI-9	20 A	1			0.6	0.6			1	20 A	FAN COIL UNIT -10 & BPI-10	10
11	FAN COIL UNIT - 11 & BPI-11	20 A	1					0.6	0.2	1	20 A	FAN COIL UNIT -12 & -16 & BPI-12, -16	12
13	FAN COIL UNIT -13 & BPI-13	20 A	1	0.1	0.1					1	20 A	FAN COIL UNIT -14 & BPI-14	14
15	FAN COIL UNIT -15 & BPI-15	20 A	1			0.1	0.4			1	20 A	AIR HANDLER UNIT - 2WHEEL & BPI-18	16
17	BOILER B-1	20 A	1					1.9	0.6	1	20 A	GLYCOL FEED SYSTEM -1	18
19	BOILER B-2	20 A	1	1.9	1.1					2	20 A	Motor	20
21	GLYCOL FEED SYSTEM -2	20 A	1			0.6	1.1			--	--	--	22
23	Motor	20 A	1					0.2	1.1	2	20 A	FREEZER DEFROST CD-2	24
25	COOLER DEFROST CD-2	20 A	1	0.2	1.1					--	--	--	26
27	CABINET UNIT HEATER 1 - VEST. 100	20 A	1			0.1	0.1			1	20 A	CABINET UNIT HEATER 3 - VEST. 137	28
29	CABINET UNIT HEATER 2 - VEST. 108	20 A	1					0.1	0.1	1	20 A	CABINET UNIT HEATER 5 - VEST. 165	30
31	CABINET UNIT HEATER 4 - LOAD 152	20 A	1	0.1	0.0					1	20 A	DOOR POWER VESTIBULE 100	32
33	DOOR OPENER 1	20 A	1			0.4	0.4			1	20 A	DOOR OPENER 2	34
35	DOOR OPENER 3	20 A	1					0.4	0.4	1	20 A	DOOR OPENER 4	36
37	DOOR OPENER 5	20 A	1	0.4	0.4					1	20 A	DOOR OPENER 6	38
39	DOOR POWER VESTIBULE 137	20 A	1			0.0	0.0			1	20 A	DOOR POWER VESTIBULE 108	40
41	DOOR POWER VESTIBULE 165	20 A	1					0.0	0.9	1	20 A	CIRCULATION FAN 1	42
43	COOLER 143A DOOR HEATER & LGIHTS	20 A	1	0.2	0.9					1	20 A	CIRCULATION FAN 2	44
45	FREEZER 143B DOOR HEATER & LIGHTS	20 A	1			0.2	0.9			1	20 A	CIRCULATION FAN 3	46
47	FREEZER DOOR HEATER 7 LIGHTS	20 A	1					0.2	0.9	1	20 A	CIRCULATION FAN 4	48
49	COOLER DOOR HEATER & LIGHTS	20 A	1	0.2	0.9					1	20 A	CIRCULATION FAN 5	50
51	Receptacle	20 A	1			0.2	0.9			1	20 A	CIRCULATION FAN 6	52
53	Receptacle	20 A	1					0.2	0.0	1	20 A	Receptacle	54
55	LPN-11A	150 A	3	14.0	0.0					1	20 A	Spare	56
57	--	--	--			15.3	0.0			1	20 A	Spare	58
59	--	--	--					10.9	0.0	1	20 A	Spare	60
			Total Load:	23.6 kVA		22.6 kVA		19.7 kVA					
			Total Amps:	200 A		193 A		164 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC Blowers	6715 VA	100.00%	6715 VA		
HVAC Heating	700 VA	100.00%	700 VA	Total Conn. Load:	65897 VA
Motor	13715 VA	104.10%	14278 VA	Total Est. Demand:	51561 VA
Receptacle	40212 VA	62.43%	25106 VA	Total Conn. Current:	183 A
HVAC	5670 VA	100.00%	5670 VA	Total Est. Demand Current:	143 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	143 A

Notes:
PANEL FOR HOUSE SYSTEMS. (CONTRACTOR TO UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: LPN-14

BUS AMPACITY: 225 A
Supply From: T-14
Mounting: Surface
Top/Bottom Feed
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10 kAIC
Mains: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ELECTRIC VEHICLE CHARGING STATION	40 A	2	3.6	3.6					2	40 A	ELECTRIC VEHICLE CHARGING STATION	2
3	--	--	--			3.6	3.6			--	--	--	4
5	FUELING TOLL BARRIERS	20 A	1					0.2	0.1	1	20 A	FUELING TOLL BARRIER	6
7	RECEPT: 150,152	20 A	1	0.7	0.4					1	20 A	RECEPT: PAVILION	8
9	ELEVATOR CAB CKT	20 A	1			0.2	0.2			1	20 A	ELEVATOR PIT RECEPTACLE	10
11	RECEPT: VENDOR LOCKERS 151	20 A	1					1.4	0.7	1	20 A	RCPT: 148,149,150.1,150.2	12
13	RECEPT: AR MASTER STATION RM 103	20 A	1	0.2	0.0					2	40 A	SAVE FOR FUTURE EV CHARGING	14
15	SAVE FOR FUTURE EV CHARGING	40 A	2			0.0	0.0			--	--	--	16
17	--	--	--					0.0	0.0	2	40 A	SAVE FOR FUTURE EV CHARGING	18
19	SAVER FOR FUTURE EV CHARGING	40 A	2	0.0	0.0					--	--	--	20
21	--	--	--			0.0	0.0			2	40 A	SAVE FOR FUTURE EV CHARGING	22
23	SAVE FOR FUTURE EV CHARGING	40 A	2					0.0	0.0	--	--	--	24
25	--	--	--	0.0	0.0					2	40 A	SAVE FOR FUTURE EV CHARGING	26
27	** FUELING STATION EXISTING CIRCUIT **	30 A	1			0.0	0.0			--	--	--	28
29	Spare	20 A	1					0.0	0.8	1	20 A	CISTERN TRANSFER PUMP	30
			Total Load:	8.4 kVA		7.5 kVA		3.1 kVA					
			Total Amps:	75 A		68 A		26 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1035 VA	118.12%	1223 VA		
Receptacle	3780 VA	100.00%	3780 VA	Total Conn. Load:	18909 VA
Power	14400 VA	100.00%	14400 VA	Total Est. Demand:	19096 VA
				Total Conn. Current:	52 A
				Total Est. Demand Current:	53 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	53 A

Notes:
** VERIFY SIZE OF EXISTING CIRCUIT TO FUELING MASTER STATION AND SIZE BREAKER ACCORDINGLY - 30A SHOWN IS PLACEHOLDER ONLY.

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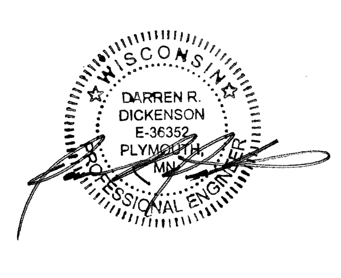
Project No: M10.19.04

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal



Signature
Print Name DARREN DICKENSON
Date MAY 31, 2023 License No 36352

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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ELECTRICAL SCHEDULES

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PANELBOARD: HPN-24-L

BUS AMPACITY:
Supply From: SBN-1 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 20 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 225 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXTERIOR WALL, CANOPY, DOWN LIGHT	20 A	1	0.2	1.2					3	60 A	T-23-L	2
3	EXTERIOR WALL STRIPS	20 A	1			1.0	3.2			--	--	--	4
5	EXTERIOR WALL LIGHTING - HIGH	20 A	1					1.8	2.7	--	--	--	6
7	EXTERIOR ZONE 1 POLE LIGHTS	20 A	1	2.0	1.2					1	20 A	SW HOUSE LIGHTING	8
9	EXTERIOR BOLLARDS, ZONE 4 POLES	20 A	1			0.6	1.6			1	20 A	S RESTROOM, KITCHEN, CORRIDOR...	10
11	EXIT LIGHTS	20 A	1					0.0	0.6	1	20 A	SE HOUSE & S HALL LIGHTING	12
13	NORTH HOUSE LIGHTS	20 A	1	1.0	0.3					1	20 A	VENDOR 7 & 10 LIGHTING	14
15	NORTH VENDOR CANOPY LIGHTING	20 A	1			0.4	1.6			1	20 A	MEZZANINE OFFICE & EAST LIGHTING	16
17	NC VENDOR CANOPY LIGHTING	20 A	1					0.4	2.6	1	20 A	MARKET SEATING LIGHTING	18
19	CENTRAL VENDOR CANOPY LIGHTING	20 A	1	0.5	1.1					1	20 A	MEZZANINE LOCKER AREA LIGHTING	20
21	Lighting	20 A	1			0.1	0.0			1	20 A	Spare	22
23	NW STRIPS AND HOUSE CATENARY	20 A	1					0.3	0.0	1	20 A	Spare	24
25	Lighting	20 A	1	0.1	0.0					1	20 A	Spare	26
27	Spare	20 A	1			0.0	0.0			1	20 A	Spare	28
29	Spare	20 A	1					0.0	0.0	1	20 A	Spare	30
31	Space	--	--	0.0	0.0					--	--	Space	32
33	Space	--	--			0.0	0.0			--	--	Space	34
35	Space	--	--					0.0	0.0	--	--	Space	36
37	Space	--	--	0.0	0.0					--	--	Space	38
39	Space	--	--			0.0	0.0			--	--	Space	40
41	Space	--	--					0.0	0.0	--	--	Space	42
			Total Load:	7.5 kVA		8.5 kVA		8.3 kVA					
			Total Amps:	27 A		31 A		31 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	22705 VA	125.00%	28381 VA		
Motor	0 VA	0.00%	0 VA	Total Conn. Load:	24381 VA
Receptacle	1800 VA	100.00%	1800 VA	Total Est. Demand:	30055 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	36 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	36 A

Notes:

PANELBOARD: LPN-25

BUS AMPACITY:
Supply From: LPN-23 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 100 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCPT: VENDOR GP 6	20 A	2	0.5	0.7					1	20 A	RCPT; VENDOR GP 6	2
3	--	--	--			0.5	0.7			1	20 A	RCPT: VENDOR GP 6	4
5	RCPT: VENDOR GP 6	20 A	2					0.5	0.2	1	20 A	RCPT: VENDOR GP 7	6
7	--	--	--	0.5	0.5					2	20 A	RCPT: VENDOR GP 7	8
9	RCPT: VENDOR GP 7	20 A	1			0.2	0.5			--	--	--	10
11	RCPT: VENDOR GP 7	20 A	1					0.2	0.5	2	20 A	RCPT: VENDOR GP 7	12
13	RCPT: VENDOR GP 7	20 A	2	0.5	0.5					--	--	--	14
15	--	--	--			0.5	0.7			1	20 A	RCPT: VENDOR 133	16
17	RCPT: VENDOR 133	20 A	1					0.7	0.7	1	20 A	RCPT: VENDOR 133	18
19	RCPT: VENDOR 133	20 A	2	0.5	0.5					2	20 A	RCPT: VENDOR 133	20
21	--	--	--			0.5	0.5			--	--	--	22
23	VENDOR 133 KITCHEN HOOD	20 A	1					0.2	0.7	1	20 A	RCPT: VENDOR 136	24
25	RCPT: VENDOR 136	20 A	1	0.7	0.5					2	20 A	RCPT: VENDOR 136	26
27	RCPT: VENDOR 136	20 A	1			0.9	0.5			--	--	--	28
29	RCPT: VENDOR GROUP 10	20 A	2					0.5	0.2	1	20 A	RCPT: VENDOR GROUP 10	30
31	--	--	--	0.5	0.2					1	20 A	RCPT: VENDOR GROUP 10	32
33	RCPT: VENDOR GROUP 10	20 A	2			0.5	0.5			2	20 A	RCPT: VENDOR GROUP 10	34
35	--	--	--					0.5	0.5	--	--	--	36
37	RCPT: VENDOR GROUP 10	20 A	1	0.2	0.5					2	20 A	RCPT: VENDOR GROUP 10	38
39	RCPT: VENDOR GROUP 10	20 A	1			0.2	0.5			--	--	--	40
41	RCPT: VENDOR LOCKERS 215	20 A	1					1.1	0.7	1	20 A	RCPT: VENDOR 135	42
43	RCPT: VENDOR LOCKERS 215	20 A	1	1.3	0.7					1	20 A	RCPT: VENDOR 135	44
45	RCPT: VENDOR LOCKERS 215	20 A	1			1.1	0.7			1	20 A	RCPT: VENDOR 135	46
47	Spare	20 A	1					0.0	0.4	2	20 A	RCPT: VENDOR 135	48
49	Spare	20 A	1	0.0	0.4					--	--	--	50
51	Spare	20 A	1			0.0	0.2			1	20 A	RCPT: VENDOR 135	52
53	Spare	20 A	1					0.0	0.0	1	20 A	Spare	54
55	Spare	20 A	1	0.0	0.0					1	20 A	Spare	56
57	Spare	20 A	1			0.0	0.0			1	20 A	Spare	58
59	Spare	20 A	1					0.0	0.0	1	20 A	Spare	60
61	Spare	20 A	1	0.0	0.0					1	20 A	Spare	62
63	Spare	20 A	1			0.0	0.0			1	20 A	Spare	64
65	Spare	20 A	1					0.0	0.0	1	20 A	Spare	66
67	Spare	20 A	1	0.0	0.0					1	20 A	Spare	68
69	Spare	20 A	1			0.0	0.0			1	20 A	Spare	70
71	Spare	20 A	1					0.0	0.0	1	20 A	Spare	72
			Total Load:	9.1 kVA		9.2 kVA		7.5 kVA					
			Total Amps:	78 A		79 A		63 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	25860 VA	69.33%	17930 VA		
				Total Conn. Load:	25860 VA
				Total Est. Demand:	17930 VA
				Total Conn. Current:	72 A
				Total Est. Demand Current:	50 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	50 A

Notes:

PANELBOARD: LPN-26-L

BUS AMPACITY:
Supply From: T-23-L | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 100 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HOUSE TRACK LIGHTING	20 A	1	0.2	0.0					1	20 A	RCPT: VENDOR 104 LIGHTING	2
3	N VENDOR CANOPY TRACK LIGHT	20 A	1			0.9	0.0			1	20 A	RCPT: VENDOR 135 LIGHTING	4
5	N CTR VENDOR TRACK LIGHT	20 A	1					1.7					6
7	NW VENDOR TRACK LIGHT	20 A	1	0.6	0.0					1	20 A	RCPT: VENDOR 136 LIGHTING	8
9	N CTR VENDOR TRACK LIGHT	20 A	1			1.3	0.0			1	20 A	RCPT: VENDOR 119 LIGHTING	10
11	N HIGH BAY TRACK LIGHTING	20 A	1					1.0	0.0	1	20 A	RCPT: VENDOR 128 LIGHTING	12
13	VENDOR 7 & S CORRIDOR TRACK	20 A	1	0.4	0.0					1	20 A	RCPT: VENDOR 111 LIGHTING	14
15	S MEZZANINE & HIGH BAY TRACK	20 A	1			1.0	0.0			1	20 A	RCPT: VENDOR 113 LIGHTING	16
17	RCPT: VENDOR GP 7 LIGHTING	20 A	1					0.0	0.0	1	20 A	RCPT: VENDOR 114 LIGHTING	18
19	RCPT: VENDOR 133 LIGHTING	20 A	1	0.0	0.0					1	20 A	RCPT: VENDOR 115 LIGHTING	20
21	RCPT: VENDOR 136 LIGHTING	20 A	1			0.0	0.0			1	20 A	RCPT: VENDOR 122E LIGHTING	22
23	RCPT: VENDOR GROUP 10 LIGHTING	20 A	1					0.0	0.0	1	20 A	RCPT: VENDOR 122 NE LIGHTING	24
25	RCPT: VENDOR 122 NW LIGHTING	20 A	1	0.0	0.0					1	20 A	RCPT: VENDOR 122W LIGHTING	26
27							0.0			1	20 A	RCPT: VENDOR GP 6 LIGHTING	28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	1.2 kVA		3.2 kVA		2.7 kVA					
			Total Amps:	10 A		29 A		24 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	7088 VA	125.00%	8860 VA		
Motor	0 VA	0.00%	0 VA	Total Conn. Load:	7088 VA
				Total Est. Demand:	8860 VA
				Total Conn. Current:	20 A
				Total Est. Demand Current:	25 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	25 A

Notes:

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PANELBOARD: LPN-23

BUS AMPACITY:
Supply From: T-22 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 400 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LPN-24	100 A	3	12.4	9.1					3	100 A	LPN-25	2
3	--	--	--			11.8	9.2			--	--	--	4
5	--	--	--					9.8	7.5	--	--	--	6
7					1.4					1	20 A	RCPT: NW TEMP VENDOR FLOOR	8
9							1.4			1	20 A	RCPT: NW TEMP VENDOR FLOOR	10
11									1.1	1	20 A	RCPT: NW TEMP VENDOR FLOOR	12
13	RCPT: SHARED 127 FLOOR	20 A	1	0.7	0.7					1	20 A	RCPT: SHARED 117 FLOOR	14
15	RCPT: VENDOR 104	20 A	2			0.5	0.7			1	20 A	RCPT: VENDOR 104	16
17	--	--	--					0.5	0.7	1	20 A	RCPT: VENDOR 104	18
19	RCPT: VENDOR 104	20 A	1	0.7	0.7					1	20 A	RCPT: VENDOR 107E	20
21	RCPT; VENDOR 107E	20 A	2			0.5	0.7			1	20 A	RCPT: VENDOR 107E	22
23	--	--	--					0.5	0.7	1	20 A	RCPT: VENDOR 107E	24
25	RCPT: VENDOR 107E	20 A	2	0.5	0.5					2	20 A	RCPT: VENDOR 107C	26
27	--	--	--			0.5	0.5			--	--	--	28
29	RCPT: VENDOR 107C	20 A	1					0.7	0.7	1	20 A	RCPT: VENDOR 107C	30
31	RCPT: VENDOR 107C	20 A	1	0.7	0.5					2	20 A	RCPT: VENDOR 107C	32
33	RCPT: VENDOR 107W	20 A	2			0.5	0.5			--	--	--	34
35	--	--	--					0.5	0.7	1	20 A	RCPT: VENDOR 107W	36
37	RCPT: VENDOR 107W	20 A	1	0.7	0.5					2	20 A	RCPT: VENDOR 107W	38
39	RCPT: VENDOR 119	20 A	2			0.5	0.5			--	--	--	40
41	--	--	--					0.5	0.7	1	20 A	RCPT: VENDOR 119	42
43	RCPT: VENDOR 119	20 A	2	0.5	0.7					1	20 A	RCPT: VENDOR 119	44
45	--	--	--			0.5	0.7			1	20 A	RCPT: VENDOR 120	46
47	RCPT: VENDOR 120	20 A	2					0.5	0.5	2	20 A	RCPT: VENDOR 120	48
49	--	--	--	0.5	0.5					--	--	--	50
51	RCPT: VENDOR 120	20 A	1			0.7	0.7			1	20 A	RCPT: VENDOR 128	52
53	RCPT; VENDOR 128	20 A	1					0.7	0.5	2	20 A	RCPT: VENDOR 128	54
55	RCPT: VENDOR 128	20 A	2	0.5	0.5					--	--	--	56
57	--	--	--			0.5	0.0			1	20 A	Spare	58
59	Spare	20 A	1					0.0	0.0	1	20 A	Spare	60
61	Spare	20 A	1	0.0	0.0					1	20 A	Spare	62
63	Spare	20 A	1			0.0	0.0			1	20 A	Spare	64
65	Spare	20 A	1					0.0	0.0	1	20 A	Spare	66
67	Spare	20 A	1	0.0	0.0					1	20 A	Spare	68
69	Spare	20 A	1			0.0	0.0			1	20 A	Spare	70
71	Spare	20 A	1					0.0	0.0	1	20 A	Spare	72
			Total Load:	32.3 kVA		30.9 kVA		26.9 kVA					
			Total Amps:	274 A		263 A		224 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	90031 VA	55.55%	50015 VA		
				Total Conn. Load:	90031 VA
				Total Est. Demand:	50015 VA
				Total Conn. Current:	250 A
				Total Est. Demand Current:	139 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	139 A

Notes:
PANEL IS FOR VENDOR SPACES. (CONTRACOR SHALL UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: LPN-24

BUS AMPACITY:
Supply From: LPN-23 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 100 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCPT: VENDOR 111 SEATING	20 A	1	0.7	0.7					1	20 A	RCPT: VENDOR 111	2
3	RCPT: VENDOR 111	20 A	2			0.5	0.5			2	20 A	RCPT: VENDOR 111	4
5	--	--	--					0.5	0.5	--	--	--	6
7	RCPT: VENDOR 111	20 A	1	0.7	0.5					2	20 A	RCPT: VENDOR 111	8
9	RCPT; VENDOR 111	20 A	2			0.5	0.5			--	--	--	10
11	--	--	--					0.5	0.2	1	20 A	VENDOR 111 KITCHEN HOOD	12
13	RCPT: VENDOR 113	20 A	2	0.5	0.7					1	20 A	RCPT: VENDOR 113 SEATING	14
15	--	--	--			0.5	0.7			1	20 A	RCPT: VENDOR 113	16
17	RCPT: VENDOR 113	20 A	1					0.7	0.5	2	20 A	RCPT: VENDOR 113	18
19	RCPT: VENDOR 113	20 A	2	0.5	0.5					--	--	--	20
21	--	--	--			0.5	0.2			1	20 A	VENDOR 113 KITCHEN HOOD	22
23	RCPT: VENDOR 113	20 A	2					0.5	0.5	2	20 A	RCPT: VENDOR 114	24
25	--	--	--	0.5	0.5					--	--	--	26
27	RCPT: VENDOR 114	20 A	1			0.7	0.7			1	20 A	RCPT: VENDOR 114	28
29	RCPT: VENDOR 114	20 A	2					0.5	0.5	2	20 A	RCPT; VENDOR 115	30
31	--	--	--	0.5	0.5					--	--	--	32
33	RCPT: VENDOR 115	20 A	1			0.7	0.7			1	20 A	RCPT: VENDOR 115	34
35	RCPT: VENDOR 115	20 A	2					0.5	0.5	2	20 A	RCPT: VENDOR 122E	36
37	--	--	--	0.5	0.5					--	--	--	38
39	RCPT: VENDOR 122E	20 A	1			0.7	0.7			1	20 A	RCPT: VENDOR 122E	40
41	RCPT: VENDOR 122E	20 A	2					0.5	0.2	1	20 A	VENDOR 122E KITCHEN HOOD	42
43	--	--	--	0.5	0.7					1	20 A	RCPT: VENDOR 122 NE	44
45	RCPT: VENDOR 122 NE	20 A	2			0.5	0.5			2	20 A	RCPT: VENDOR 122 NE	46
47	--	--	--					0.5	0.5	--	--	--	48
49	RCPT: VENDOR 122 NE	20 A	1	0.7	0.2					1	20 A	VENDOR 122NE KITCHEN HOOD	50
51	RCPT: VENDOR 122 NW	20 A	1			0.7	0.5			2	20 A	RCPT: VENDOR 122 NW	52
53	RCPT: VENDOR 122 NW	20 A	2					0.5	0.5	--	--	--	54
55	--	--	--	0.5	0.7					1	20 A	RCPT: VENDOR 122 NW	56
57	VENDOR 122 NW KITCHEN HOOD	20 A	1			0.2	0.5			2	20 A	RCPT: VENDOR 122W	58
59	RCPT; VENDOR 122W	20 A	1					0.7	0.5	--	--	--	60
61	RCPT: VENDOR 122W	20 A	2	0.5	0.7					1	20 A	RCPT: VENDOR 122W	62
63	--	--	--			0.5	0.2			1	20 A	VENDOR 122W KITCHEN HOOD	64
65	Spare	20 A	1					0.0	0.0	1	20 A	Spare	66
67	Spare	20 A	1	0.0	0.0					1	20 A	Spare	68
69	Spare	20 A	1			0.0	0.0			1	20 A	Spare	70
71	Spare	20 A	1					0.0	0.0	1	20 A	Spare	72
			Total Load:	12.4 kVA		11.8 kVA		9.8 kVA					
			Total Amps:	106 A		101 A		82 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	34040 VA	64.69%	22020 VA		
				Total Conn. Load:	34040 VA
				Total Est. Demand:	22020 VA
				Total Conn. Current:	94 A
				Total Est. Demand Current:	61 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	61 A

Notes:
PANEL IS FOR SHARED VENDOR SPACES. (CONTRACTOR SHALL UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: HPN-21

BUS AMPACITY:
Supply From: SBN-1 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 20 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 400 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-21	125 A	3	10.4	3.4					3	20 A	CONDENSER-1	2
3	--	--	--			10.1	3.4			--	--	--	4
5	--	--	--					12.4	3.4	--	--	--	6
7	CONDENSER-2	20 A	3	3.4	3.4					3	20 A	CONDENSER-3	8
9	--	--	--			3.4	3.4			--	--	--	10
11	--	--	--					3.4	3.4	--	--	--	12
13	CONDENSER-4	20 A	3	3.4	2.9					3	20 A	EXHAUST FAN EF-2	14
15	--	--	--			3.4	2.9			--	--	--	16
17	--	--	--					3.4	2.9	--	--	--	18
19	EXHAUST FAN EF-4 - SHUNT TRIP BRKR	20 A	3	2.9	0.0					3	20 A	Spare	20
21	--	--	--			2.9	0.0			--	--	--	22
23	--	--	--					2.9	0.0	--	--	--	24
25	Spare	20 A	3	0.0	0.0					3	20 A	Spare	26
27	--	--	--			0.0	0.0			--	--	--	28
29	--	--	--					0.0	0.0	--	--	--	30
31	Space	--	--	0.0	0.0					--	--	Space	32
33	Space	--	--			0.0	0.0			--	--	Space	34
35	Space	--	--					0.0	0.0	--	--	Space	36
37	Space	--	--	0.0	0.0					--	--	Space	38
39	Space	--	--			0.0	0.0			--	--	Space	40
41	Space	--	--					0.0	0.0	--	--	Space	42
			Total Load:	29.8 kVA		29.4 kVA		31.9 kVA					
			Total Amps:	108 A		106 A		115 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC Blowers	25141 VA	100.00%	25141 VA		
HVAC Cooling	41000 VA	100.00%	41000 VA	Total Conn. Load:	91062 VA
Motor	10925 VA	108.62%	11866 VA	Total Est. Demand:	89774 VA
Receptacle	14630 VA	84.18%	12315 VA	Total Conn. Current:	110 A
				Total Est. Demand Current:	108 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	108 A

Notes:
PROVIDE SHUNT TRIP BREAKER FOR EXHAUST FAN EF-4.   PANEL FOR IN-HOUSE POWER. (CONTRACTOR TO UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DRAWINGS.)

PANELBOARD: LPN-21

BUS AMPACITY:
Supply From: T-21 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 225 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LPN-22-IT	100 A	3	0.4	0.0					2	20 A	CU-1 MINI-SPLIT	2
3	--	--	--			0.4	0.0			--	--	--	4
5	--	--	--					0.0	1.2	2	30 A	FRZ-01 COMPRESSOR	6
7	COOL-01 COMPRESSOR	20 A	2	1.9	1.2					--	--	--	8
9	--	--	--			1.9	0.9			2	20 A	FRZ-02 COMPRESSOR	10
11	COOL-02 COMPRESSOR	20 A	2					1.3	0.9	--	--	--	12
13	--	--	--	1.3	0.4					1	20 A	Motor	14
15	DRY PIPE COMPRESSOR	20 A	1			0.1	1.1			2	20 A	EXHAUST FAN EF-1	16
17	EXHAUST FAN EF-3	30 A	2					1.7	1.1	--	--	--	18
19	--	--	--	1.7	0.3					1	20 A	EXHAUST FAN EF-6	20
21	EXHAUST FAN EF-5	20 A	2			0.8	0.2			1	20 A	WATER HEATER RECEPT	22
23	--	--	--					0.8	0.1	1	20 A	CIRCULATION PUMPS -1 & -2	24
25	WATER HEATER RECEPT	20 A	1	0.2	0.4					1	20 A	RCPT: ADMIN OFFICE 201 WORKSTATION	26
27	RCPT: ADMIN OFFICE 201 WORKSTATION	20 A	1			0.4	1.1			1	20 A	RCPT: ADMIN OFFICE 201	28
29	RCPT: ADMIN OFFICE 201 PRINTER	20 A	1					0.2	0.9	1	20 A	RCPT: DIRECTOR'S OFFICE 202	30
31	RCPT: ADMIN OFFICE 201...	20 A	1	0.2	0.7					1	20 A	RESTROOM 206 FAUCET SENSORS	32
33	RCPT: ADMIN OFFICE 20-1 COUNTERTOP	20 A	1			0.7	0.5			1	20 A	RCPT: STORAGE 210, UTILITY 212	34
35	RCPT: RESTROOM 206, COMFORT RM 209	20 A	1					1.1	1.8	1	20 A	RCPT: MARKET SEATING 213 N FLOOR	36
37	DOOR LOCK POWER MEZZANINE	20 A	1	0.0	0.7					1	20 A	RCPT; MARKET SEATIN 213 S RAIL	38
39	RCPT: MARKET SEATING 213 N WALL	20 A	1			0.7	1.3			1	20 A	RCPT: MARKET SEATING 213 E RAIL	40
41	RCPT: MARKET SEATING 213 S FLOOR	20 A	1					1.4	0.0	1	20 A	SHUNT TRIP POWER FOR EF-4	42
43	RCPT MARKET SEATING 213 E RAIL	20 A	1	1.1	0.2					1	20 A	RECEPT: MECH PLATFORM 221	44
45	RCPT: VENDOR LOCKER	20 A	1			0.4	0.0			1	20 A	Spare	46
47	RCPT: MECH PLATFORM 201	20 A	1					0.2	0.0	1	20 A	Spare	48
49	Spare	20 A	1	0.0	0.0					1	20 A	Spare	50
51	Spare	20 A	1			0.0	0.0			1	20 A	Spare	52
53	Spare	20 A	1					0.0	0.0	1	20 A	Spare	54
55	Spare	20 A	1	0.0	0.0					--	--	Space	56
57	Spare	20 A	1			0.0	0.0			--	--	Space	58
59	Spare	20 A	1					0.0	0.0	--	--	Space	60
			Total Load:	10.4 kVA		10.1 kVA		12.4 kVA					
			Total Amps:	87 A		84 A		104 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC Blowers	7611 VA	100.00%	7611 VA		
Motor	10925 VA	108.62%	11866 VA	Total Conn. Load:	32743 VA
Receptacle	14630 VA	84.18%	12315 VA	Total Est. Demand:	31402 VA
				Total Conn. Current:	91 A
				Total Est. Demand Current:	87 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	87 A

Notes:
PANEL FOR HOUSE POWER. (CONTRACTOR TO UPDATE SHEET PANEL SCHEDULES UPON COMPLETION OF WORK AS RECORD DOCUMENTS.)

PANELBOARD: LPN-22-IT

BUS AMPACITY:
Supply From: LPN-21 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10 kAIC
Mounting: Surface | **Phases:** 3 | **Mains:** 100 A
Top/Bottom Feed | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	0.2	0.2					1	20 A	Receptacle	2
3	Receptacle	20 A	1			0.2	0.2			1	20 A	Receptacle	4
5	Spare	20 A	1					0.0	0.0	1	20 A	Spare	6
7	Spare	20 A	1	0.0	0.0					1	20 A	Spare	8
9	Spare	20 A	1			0.0	0.0			1	20 A	Spare	10
11	Spare	20 A	1					0.0	0.0	1	20 A	Spare	12
13	Spare	20 A	1	0.0	0.0					1	20 A	Spare	14
15	Spare	20 A	1			0.0	0.0			1	20 A	Spare	16
17	Spare	20 A	1					0.0	0.0	1	20 A	Spare	18
19	Space	--	--	0.0	0.0					--	--	Space	20
21	Space	--	--			0.0	0.0			--	--	Space	22
23	Space	--	--					0.0	0.0	--	--	Space	24
25	Space	--	--	0.0	0.0					--	--	Space	26
27	Space	--	--			0.0	0.0			--	--	Space	28
29	Space	--	--					0.0	0.0	--	--	Space	30
			Total Load:	0.4 kVA		0.4 kVA		0.0 kVA					
			Total Amps:	3 A		3 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	720 VA	100.00%	720 VA		
				Total Conn. Load:	720 VA
				Total Est. Demand:	720 VA
				Total Conn. Current:	2 A
				Total Est. Demand Current:	2 A
				Non-Coincident...	0 A
				Total Est. Demand - NC:	2 A

Notes:

Architecture and Interiors

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510 Marquette Avenue South, Suite 200
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MEP Engineer

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Landscape Architect

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Structural Engineering, Fire Protection Engineering, Technology and AV

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Lighting Design

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1999 Broadway, Suite 2205
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

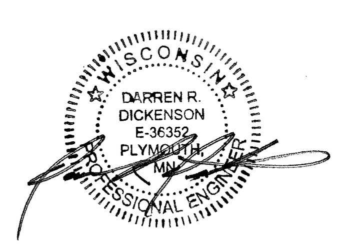
Project No: M10.19.04

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal



Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 License No 36352

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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ELECTRICAL SCHEDULES

E601

Switchboard: SBN-1

Location: MECHANICAL ROOM 1 57
Supply From:
Mounting:
Top/Bottom Feed: BOTTOM

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 16 kAIC
Mains Type:
Mains Rating: 2000 A
MCB Rating: 2000 A

Notes:
PROVIDE METER FOR OVERALL LOAD WITH CONNECTION TO BAS.

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
SBN-11	SURGE PROTECTIVE DEVICE	3	--	60 A	0 VA	
SBN-12	ACC-1	3	125 A	110 A	69650 VA	
SBN-13	ACC-2	3	125 A	110 A	69650 VA	
SBN-14	ACC-3	3	125 A	110 A	69650 VA	
SBN-15	ACC-4	3	125 A	110 A	69650 VA	
SBN-16	HPN-11	3	400 A	400 A	250880 VA	
SBN-17	HPN-12	3	400 A	225 A	720 VA	UTILITY METER FOR ANCHOR TENANT
SBN-18	HPN-13	3	400 A	225 A	0 VA	UTILITY METER FOR ANCHOR TENANT
SBN-19	HPN-21	3	400 A	400 A	91062 VA	OWNER METER FOR VENDOR LOAD
SBN-110	T-22	3	400 A	175 A	90031 VA	
SBN-111	HPN-24-L	3	100 A	100 A	24381 VA	METERED FOR LIGHTING LOAD
SBN-112	ELEV-1	3	100 A	70 A	43825 VA	
SBN-113	PHOTOVOLTAIC ARRAY	3	--	225 A	0 VA	UP TO 180 kVA FEEDING IN
SBN-114	PREPARED SPACE			225 A		
SBN-115	PREPARED SPACE			225 A		
SBN-116	PREPARED SPACE			225 A		
SBN-117	PREPARED SPACE			225 A		
SBN-118	PREPARED SPACE			225 A		
				Total Conn. Load:	773097 VA	
				Total Amps:	930 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC Blowers	36456 VA	100.00%	36456 VA		
Lighting	22705 VA	125.00%	28381 VA	**Total Conn. Load:**	773097 VA
Motor	127215 VA	108.61%	138171 VA	**Total Est. Demand:**	723185 VA
HVAC Cooling	405700 VA	100.00%	405700 VA	**Total Conn. Current:**	930 A
HVAC Heating	700 VA	100.00%	700 VA	**Total Est. Demand Current:**	870 A
Power	14400 VA	100.00%	14400 VA	**Non-COincedent..**	
HVAC	24520 VA	100.00%	24520 VA	**Total Est. Demand - NC:**	

Notes:

MOTOR SCHEDULE

EQUIP NAME	EQUIP NO.	EQUIPMENT DESCRIPTION	LOCATION	Voltage	Phase	HP	FLA	kVA	CONDUIT & WIRE SIZE	DISCONNECT BY	DISCONNECT TYPE	PANEL	CIRCUIT NUMBER	NOTE
AC	01	AIR CURTAIN	ANCHOR VENDOR 151	480 V	3	15	21	11000 VA	3/4"C, (3) #10, (1) #10 G	MFR		HPN-11	37,39,41	
AC	02	AIR CURTAIN	SOUTH HALL 152	480 V	3	15	21	11000 VA	3/4"C, (3) #10, (1) #10 G	MFR		HPN-11	38,40,42	
AC	04	AIR CURTAIN	E GATHERING 108	480 V	3	15	21	11000 VA	3/4"C, (3) #10, (1) #10 G	MFR		HPN-11	43,45,47	
AC	05	AIR CURTAIN	CORRIDOR 110	480 V	3	15	21	11000 VA	3/4"C, (3) #10, (1) #10 G	MFR		HPN-11	50,52,54	
AC	06	AIR CURTAIN	WAITING 103	480 V	3	15	21	11000 VA	3/4"C, (3) #10, (1) #10 G	MFR		HPN-11	44,46,48	
ACC	01	CHILLER	MECH ROOM 150	480 V	3		87.4	69650 VA	1-1/4"C,(3) #2, (1) #6G	MFR	VFD	SBN-1	SBN-12	
ACC	02	CHILLER	MECH ROOM 150	480 V	3		87.4	69650 VA	1-1/4"C,(3) #2, (1) #6G	MFR	VFD	SBN-1	SBN-13	
ACC	03	CHILLER	MECH ROOM 150	480 V	3		87.4	69650 VA	1-1/4"C,(3) #2, (1) #6G	MFR	VFD	SBN-1	SBN-14	
ACC	04	CHILLER	MECH ROOM 150	480 V	3		87.4	69650 VA	1-1/4"C,(3) #2, (1) #6G	MFR	VFD	SBN-1	SBN-15	
AHU	01	AIR HANDLING UNIT	MECH PLATFORM 220	480 V	3	15	18	14350 VA	3/4"C, (3) #10, (1) #10 G	MFR	VFD	HPN-11	7,9,11	
AHU	2R	AIR HANDLING UNIT RETURN	SOUTH HALL 152	480 V	3	2	4.8	2300 VA	3/4"C, (3) #12, (1) #12 G	MFR	VFD	HPN-11	8,10,12	
AHU	2S	AIR HANDLING UNIT SUPPLY	SOUTH HALL 152	480 V	3	3	4.8	2300 VA	3/4"C, (3) #12, (1) #12 G	MFR	VFD	HPN-11	8,10,12	
AHU	2W	AIR HANDLING UNIT WHEEL	SOUTH HALL 152	120 V	1	0.5	3.2	375 VA	3/4"C, (2) #12, (1) #12 G	MFR	VFD	LPN-11	16	
B	01	BOILER	MECH ROOM 150	120 V	1		16	1920 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	17	
B	2	BOILER	MECH ROOM 150	120 V	1		16	1920 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	19	
CB	01	CARDBOARD BALER	LOADING 148	480 V	3	10	14	7500 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-14	7,9,11	
CC	01	COOLER COIL	WALK-IN 143A	120 V	1		1.6	200 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	23	
CC	02	COOLER COIL	MARKET KITCHEN 142	120 V	1		1.6	200 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	25	
CF	1	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	42	
CF	2	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	44	
CF	3	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	46	
CF	4	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	48	
CF	5	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	50	
CF	6	CIRCULATION FAN	MAIN HALL 111	120 V	1		7.7	900 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	52	
CF	7	CIRCULATION FAN	SOUTH HALL 152	480 V	3	2	3.4	1500 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-11	14,16,18	
CF	8	CIRCULATION FAN	SOUTH HALL 152	480 V	3	2	3.4	1500 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-11	14,16,18	
CF	9	CIRCULATION FAN	SOUTH HALL 152	480 V	3	2	3.4	1500 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-11	14,16,18	
COMP	DP	DRY PIPE COMPRESSOR	STORAGE 215	120 V	1		0.87	100 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-21	15	
CON	01	CHILLER CONDENSER	ROOF	480 V	3		12.3	10250 VA	3/4"C, (3) #12, (1) #12 G	EC	VFD	HPN-21	2,4,6	
CON	02	CHILLER CONDENSER	ROOF	480 V	3		12.3	10250 VA	3/4"C, (3) #12, (1) #12 G	EC	VFD	HPN-21	7,9,11	
CON	03	CHILLER CONDENSER	ROOF	480 V	3		12.3	10250 VA	3/4"C, (3) #12, (1) #12 G	EC	VFD	HPN-21	8,10,12	
CON	04	CHILLER CONDENSER	ROOF	480 V	3		12.3	10250 VA	3/4"C, (3) #12, (1) #12 G	EC	VFD	HPN-21	13,15,17	
COOL	01	WALK-IN COOLER	ROOF	208 V	1	1.5	10.9	2300 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-21	6,8	
COOL	02	WALK-IN COOLER	ROOF	208 V	1	0.75	7.4	1700 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-21	10,12	
CP	1	CIRCULATION PUMP	UTILITY 212	120 V	1		0.5	60 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-21	24	
CU	01	COOLING UNIT	ROOF	120 V	1		0.35	73 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-21	2,4	
CUH	01	CABINET HEATER	VESTIBULE 100	120 V	1		1.2	140 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	27	
CUH	02	CABINET HEATER	VESTIBULE 112	120 V	1		1.2	140 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	28	
CUH	03	CABINET HEATER	VESTIBULE 137	120 V	1		1.2	140 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	29	
CUH	04	CABINET HEATER	LOADING 148	120 V	1		1.2	140 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	31	
CUH	05	CABINET HEATER	VESTIBULE 165	120 V	1		1.2	140 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	30	
DISP		DISPOSER	MARKET KITCHEN 142	208 V	1	2	7.7	1600 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-11A	24,26	
DO	1	DOOR OPENER	ANCHOR VENDOR 162	120 V	1	1/2		375 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	33	
DO	2	DOOR OPENER	ANCHOR VENDOR 162	120 V	1	1/2		375 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	34	
DO	3	DOOR OPENER	LOADING 148	120 V	1	1/2	10	375 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	35	
DO	4	DOOR OPENER	E GATHERING 108	120 V	1	1/2	10	380 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	36	
DO	5	DOOR OPENER	NORTH ENTRY 102	120 V	1	1/2	10	380 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	37	
DO	6	DOOR OPENER	NORTH ENTRY 102	120 V	1	1/2	10	380 VA	3/4"C, (2) #12, (1) #12 G	N/A		LPN-11	38	
EF	01	EXHAUST FAN	ROOF	208 V	1	3	10.6	2235 VA	3/4"C, (3) #10, (1) #10 G	MFR		LPN-21	16,18	
EF	02	EXHAUST FAN	ROOF	480 V	3	7.5	11	8765 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-21	14,16,18	
EF	03	EXHAUST FAN	ROOF	208 V	1	5	16.7	3475 VA	3/4"C, (3) #10, (1) #10 G	MFR		LPN-21	17,19	
EF	04	EXHAUST FAN	ROOF	480 V	3	7.5	11	8765 VA	3/4"C, (3) #12, (1) #12 G	MFR	SHUNT	HPN-21	19,21,23	
EF	05	EXHAUST FAN	ROOF	208 V	1	2	13.2	1500 VA	3/4"C, (3) #12, (1) #12 G	MFR		LPN-21	21,23	
EF	6	EXHAUST FAN	ROOF	120 V	1	1/3	7.0	250 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-21	20	
ELEV	1	ELEVATOR	ELEVATOR E1	480 V	3		55	43825 VA	1-1/4"C,(3) #4, (1) #8G	EC	SHUNT	SBN-1	SBN-112	
EVAP	01	EVAPORATOR	DATA & IT 211	120 V	1		0.35	73 VA	3/4"C, (3) #12, (1) #12 G	SEE CU-1	SEE CU-1			
FC	01	FREEZER COIL	WALK-IN 143B	208 V	1		10.8	2250 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	20,22	
FC	02	FREEZER COIL	MARKET KITCHEN 142	208 V	1		10.8	2240 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	24,26	
FCU	01	FAN COIL UNIT	VENDOR GROUP 1	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	1	
FCU	02	FAN COIL UNIT	CORRIDOR 105	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	2	
FCU	03	FAN COIL UNIT	VENDOR GROUP 1	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	3	
FCU	04	FAN COIL UNIT	VENDOR GROUP 8	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	4	
FCU	05	FAN COIL UNIT	VENDOR GROUP 9	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	5	
FCU	07	FAN COIL UNIT	MAIN HALL 111	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	7	
FCU	08	FAN COIL UNIT	MAIN HALL 111	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	8	
FCU	09	FAN COIL UNIT	VENDOR GROUP 5	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	9	
FCU	10	FAN COIL UNIT	VENDOR GROUP 3	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	10	
FCU	11	FAN COIL UNIT	VENDOR GROUP 4	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	11	
FCU	12	FAN COIL UNIT	VENDOR GROUP 10	120 V	1		0.75	90 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	12	
FCU	13	FAN COIL UNIT	STORAGE 214	120 V	1		0.75	90 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	13	
FCU	14	FAN COIL UNIT	UTILITY 212	120 V	1		0.75	90 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	14	
FCU	15	FAN COIL UNIT	CLOSET 205	120 V	1		0.75	90 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	15	
FCU	16	FAN COIL UNIT	VENDOR GROUP 10	120 V	1		0.75	90 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	12	
FRZ	01	WALK-IN FREEZER	ROOF	208 V	1	2	18.1	3765 VA	3/4"C, (3) #10, (1) #10 G	EC	MRS	LPN-21	7,9	
FRZ	02	WALK-IN FREEZER	ROOF	208 V	1	1.5	12.6	2620 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-21	11,13	
GFS	1	GLYCOL FEED PUMP	MECH ROOM 150	120 V	1		13.2	560 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	18	
GFS	2	GLYCOL FEED PUMP	MECH ROOM 150	120 V	1		13.2	560 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-11	21	
LIFT	1	DOCK SCISSOR LIFT	LOADING DOCK	480 V	3	5	7.6	3800 VA	3/4"C, (3) #12, (1) #12 G	MFR		LIFT POWER	1,3,5	
MAU	01	MAKEUP AIR UNIT	VENDOR GROUP 5	480 V	3	30	39	31100 VA	1"C,(3) #6, (1) #10G	MFR	VFD	HPN-11	31,33,35	
P	1	CISTERN TRANSFER PUMP	SOUTH HALL 152			1	15	750 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	LPN-14	30	
P	1A	BOILER PUMP	MECH ROOM 150	480 V	3	7.5	11	5600 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	19,21,23	
P	1B	BOILER PUMP	MECH ROOM 150	480 V	3	7.5	11	5600 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	20,22,24	
P	2A	CHILLER PUMP	MECH ROOM 150	480 V	3	0.75	1	560 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	32,34,36	
P	2B	CHILLER PUMP	MECH ROOM 150	480 V	3	0.75	1	560 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	32,34,36	
P	2C	CHILLER PUMP	MECH ROOM 150	480 V	3	0.75	1	560 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	32,34,36	
P	2D	CHILLER PUMP	MECH ROOM 150	480 V	3	0.75	1	560 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	32,34,36	
P	3A	CHILLER PUMP	MECH ROOM 150	480 V	3	10	14	7500 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	25,27,29	
P	3B	CHILLER PUMP	MECH ROOM 150	480 V	3	10	14	7500 VA	3/4"C, (3) #12, (1) #12 G	EC	MRS	HPN-11	26,28,30	
P	06	CISTERN TRANSFER PUMP	VENDOR GROUP 5	120 V	1	0.75	13.2	560 VA	3/4"C, (2) #12, (1) #12 G	MFR		LPN-11	6	
SKY	1	SKYLIGHT OPERATOR	ROOF SKYLIGHT	120 V	1	1/4	5.5	190 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-21	14	
SKY	2	SKYLIGHT OPERATOR	ROOF SKYLIGHT	120 V	1	1/4	5.5	190 VA	3/4"C, (2) #12, (1) #12 G	EC	MRS	LPN-21	14	
SP	1	SUMP PUMP	LOADING 152	480 V	3	0.5	1	375 VA	3/4"C, (3) #12, (1) #12 G	MFR		HPN-14	2,4,6	
TC	01	TRASH COMPACTOR	EXTERIOR TRASH AREA	480 V	3	3	4.8	3800 VA	3/4"C, (3) #12, (1) #12 G	EC		HPN-14	13,15,17	
TC	02	TRASH COMPACTOR	EXTERIOR TRASH AREA	480 V	3	3	4.8	3800 VA	3/4"C, (3) #12, (1) #12 G	EC		HPN-14	14,16,18	

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
DARREN R. DICKENSON
E-36352
PLYMOUTH
REGISTERED PROFESSIONAL ENGINEER

Signature
Print Name DARREN DICKENSON
Date MAY 31, 2023 **License No** 36352

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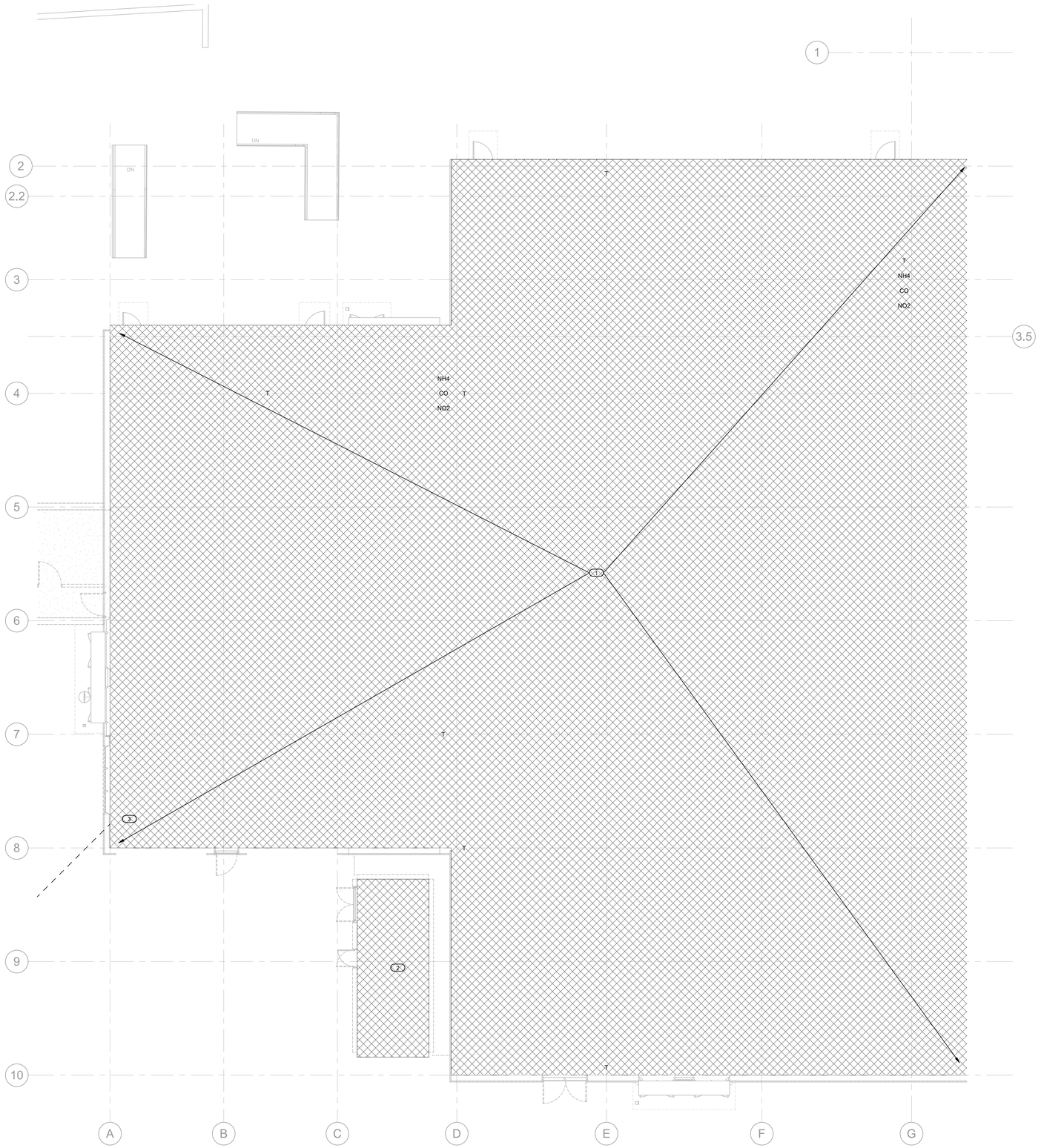
ELECTRICAL SCHEDULES

E602



1 LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, PANELS, COMMUNICATION AND LOW VOLTAGE DEVICES, LUMINAIRES, FIRE ALARM DEVICES AND ASSOCIATED WIRING, AND WIRING DEVICES, INCLUDING INCOMING SERVICE COMPONENTS, SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR WALKTHROUGH OF EXISTING SITE AND IDENTIFYING SCOPE AND EXTENT OF DEMOLITION TO BE COMPLETED.
B. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONDUIT, CABLING, AND RACEWAYS, INCLUDING THOSE FOR FIRE ALARM, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
C. ALL RECEPTACLES, DATA OUTLETS, JUNCTION BOXES, AND SWITCHES SHALL BE REMOVED.
D. DEMOLITION SHALL INCLUDE ALL HANGERS AND SUPPORTS; NO SUCH SHALL BE LEFT IN PLACE.
E. DEMOLITION SHALL INCLUDE ALL CONTROLS AND CONTROL WIRING; NO SUCH SHALL BE LEFT IN PLACE.
F. THIS CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF NON-STRUCTURAL BUILDING COMPONENTS AS NEEDED TO EXECUTE DEMOLITION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF STRUCTURAL COMPONENTS SUCH AS FLOORS, STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.
G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. DEMOLISH ALL EQUIPMENT, DEVICES, RACEWAY AND WIRING IN AREA PER GENERAL NOTES ABOVE.
2. DEMOLISH ALL ELECTRICAL EQUIPMENT, DEVICES, AND WIRING IN PAVILION BUILDING, BUT RETAIN BURIED RACEWAY AND STUB UP INTO BUILDING FOR NEW ELECTRICAL WORK.
3. EXISTING BURIED CONDUIT AND CIRCUIT TO DEPOT BUILDING TO PLAN SOUTHWEST (SEE SITE PLAN E100) TO REMAIN. POWER TO DEPOT BUILDING TO REMAIN. EC TO PROVIDE TEMPORARY POWER FOR DEPOT CIRCUIT UNTIL RECONNECTION ON NEW ELECTRICAL PANEL. SEE SHEET E100.

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Engineer Seal

WISCONSIN
DARREN R. DICKENSON
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PLYMOUTH
PROFESSIONAL ENGINEER

Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - NORTH

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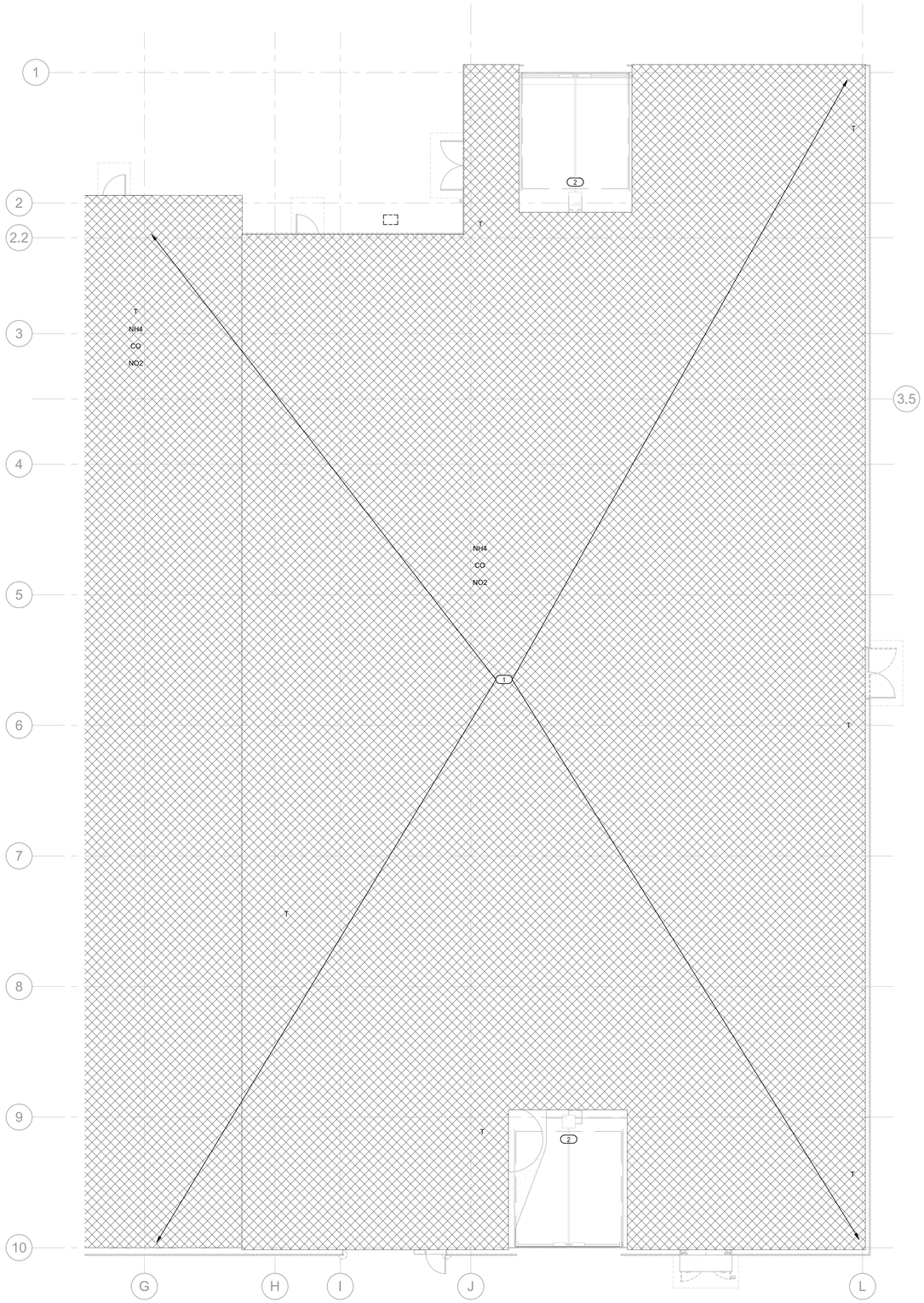

1 LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, PANELS, COMMUNICATION AND LOW VOLTAGE DEVICES, LUMINAIRES, FIRE ALARM DEVICES AND ASSOCIATED WIRING, AND WIRING DEVICES, INCLUDING INCOMING SERVICE COMPONENTS, SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR WALKTHROUGH OF EXISTING SITE AND IDENTIFYING SCOPE AND EXTENT OF DEMOLITION TO BE COMPLETED.
B. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONDUIT, CABLING, AND RACEWAYS, INCLUDING THOSE FOR FIRE ALARM, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
C. ALL RECEPTACLES, DATA OUTLETS, JUNCTION BOXES, AND SWITCHES SHALL BE REMOVED.
D. DEMOLITION SHALL INCLUDE ALL HANGERS AND SUPPORTS; NO SUCH SHALL BE LEFT IN PLACE.
E. DEMOLITION SHALL INCLUDE ALL CONTROLS AND CONTROL WIRING; NO SUCH SHALL BE LEFT IN PLACE.
F. THIS CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF NON-STRUCTURAL BUILDING COMPONENTS AS NEEDED TO EXECUTE DEMOLITION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF STRUCTURAL COMPONENTS SUCH AS FLOORS, STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.
G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. DEMOLISH ALL EQUIPMENT, DEVICES, RACEWAY AND WIRING IN AREA PER GENERAL NOTES ABOVE.
2. BASE BID IS FOR THESE (2) DOOR OPENERS TO REMAIN. ALTERNATE 2 IS FOR THEM TO BE DEMOLISHED AND REPLACED. VERIFY ACCEPTANCE OF ALTERNATE BID PRIOR TO DEMOLISHING DOOR OPENER AND SWITCH WIRING - POWER WIRING SHALL STILL BE DEMOLISHED.

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Engineer Seal

DARREN R. DICKENSON E-36352 PLYMOUTH WISCONSIN PROFESSIONAL ENGINEER

Signature _____

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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LEVEL 1 POWER AND SYSTEMS DEMOLITION PLAN - SOUTH

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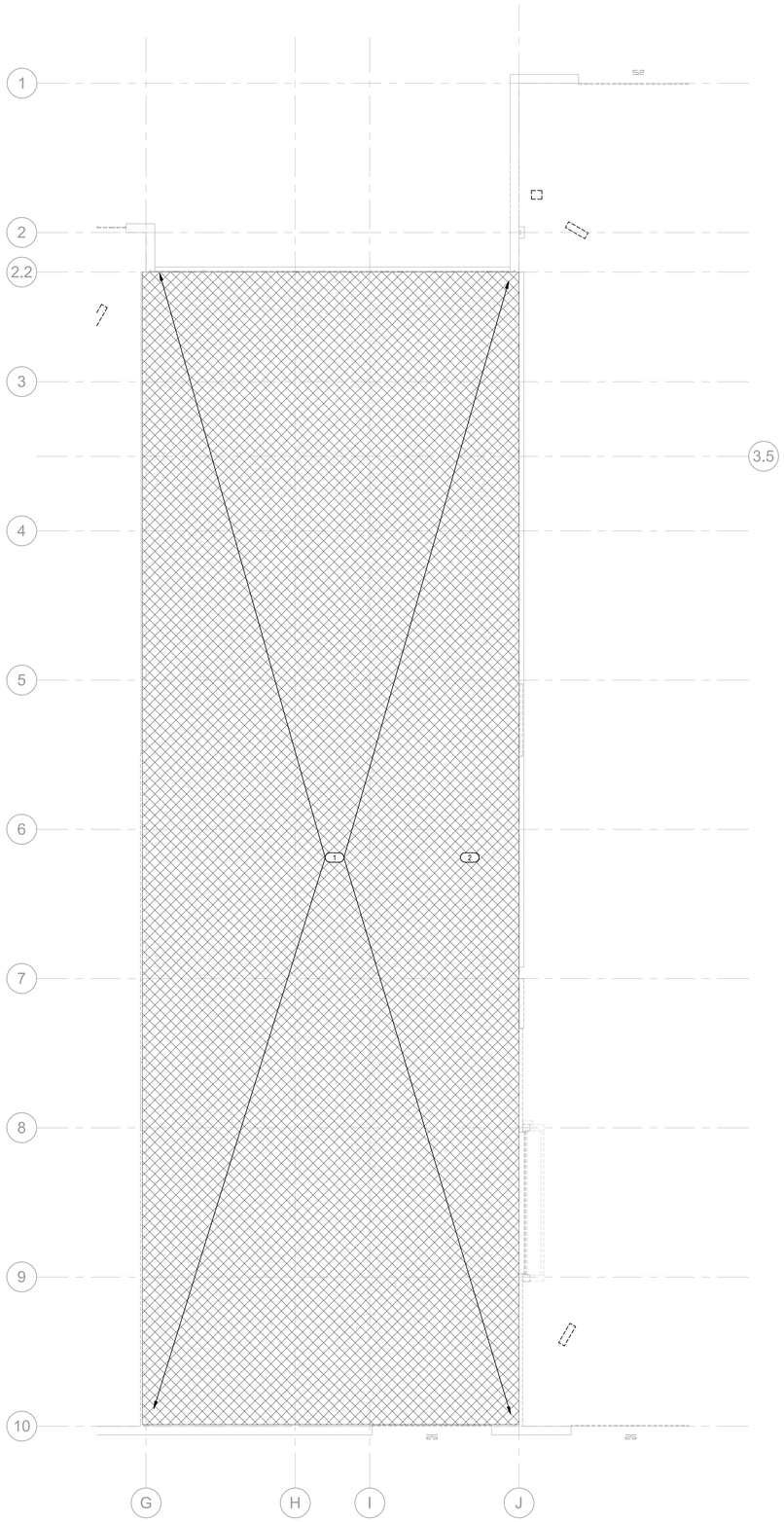

1 MEZZANINE ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, PANELS, COMMUNICATION AND LOW VOLTAGE DEVICES, LUMINAIRES, FIRE ALARM DEVICES AND ASSOCIATED WIRING, AND WIRING DEVICES, INCLUDING INCOMING SERVICE COMPONENTS, SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR WALKTHROUGH OF EXISTING SITE AND IDENTIFYING SCOPE AND EXTENT OF DEMOLITION TO BE COMPLETED.
B. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONDUIT, CABLING, AND RACEWAYS, INCLUDING THOSE FOR FIRE ALARM, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
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G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. DEMOLISH ALL EQUIPMENT, DEVICES, RACEWAY AND WIRING IN AREA PER GENERAL NOTES ABOVE.
2. IT ROOM EQUIPMENT TO BE SALVAGED AND PROTECTED. SEE ALSO TECHNOLOGY DRAWINGS FOR CROSSOVER OF IT EQUIPMENT DEMOLITION. EC TO PROVIDE TEMPORARY POWER AS NECESSARY FOR IT EQUIPMENT UNTIL DEMOLITION - COORDINATE WITH LOW VOLTAGE CONTRACTOR.

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Engineer Seal

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Signature

Print Name DARREN DICKENSON

Date MAY 31, 2023 **License No** 36352

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MEZZANINE LEVEL POWER AND SYSTEMS DEMOLITION PLAN

ED102

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GENERAL MECHANICAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2. THE CONTRACTOR SHALL PAY FOR ALL FEES, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK. CITY PAYS FOR PERMIT FEES (BUILDING, MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER AND FIRE ALARM) AHEAD OF CONSTRUCTION.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
12. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
13. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
14. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
15. MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
16. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
17. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
18. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING AND DUCTWORK ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.
19. CONTRACTOR SHALL COMPLY WITH WISCONSIN MECHANICAL CODE, AS DEFINED BY SPS 364. WISCONSIN PLUMBING CODE, AS DEFINED BY SPS 382. WISCONSIN ENERGY CODE, AS DEFINED BY SPS 363. IN ADDITION, LEED EDITION NC v3.

MECHANICAL HVAC LEGEND

	EXHAUST AIR DUCT (DOWN)	ACC	AIR COOLED CHILLER
	EXHAUST AIR DUCT (UP)	AD	ACCESS DOOR
	RETURN AIR DUCT (DOWN)	AF	AIR FILTER
	RETURN AIR DUCT (UP)	AHU	AIR HANDLING UNIT
	OUTSIDE OR SUPPLY AIR DUCT (UP)	B	BOILER
	OUTSIDE OR SUPPLY AIR DUCT (DOWN)	BDD	BACK DRAFT DAMPER
24x12	RECTANGULAR DUCT SIZE	BT	BUFFER TANK
24/12	FLAT OVAL DUCT SIZE	CD	CEILING DIFFUSER
	NEW DUCTWORK	CR	CEILING REGISTER
	FLEX DUCT	EF	EXHAUST FAN
	EXISTING DUCTWORK	EG	EXHAUST GRILLE
	DEMOLITION LINETYPE	ERV	ENERGY RECOVERY VENTILATOR
	SUPPLY AIR CEILING DIFFUSER	ET	DIAPHRAGM EXPANSION TANK
	CEILING DIFFUSER W/BLANKOFF	FD	FIRE DAMPER
	RETURN AIR GRILLE	H	HUMIDIFIER
	EXHAUST AIR GRILLE	HX	HEAT EXCHANGER
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS: CALL-OUT CFM OR CALL-OUT CFM		L	LOUVER
	MANUAL BALANCING DAMPER	MD	MOTOR OPERATED DAMPER
	PIPE PENETRATION THROUGH FIRE RATED WALL	NC	NORMALLY CLOSED
	FIRE DAMPER (X=F) SMOKE DAMPER (X=S) FIRE/SMOKE DAMPER (X=C)	NO	NORMALLY OPEN
M	MOTORIZED DAMPER	OA	OUTSIDE AIR
	SCHEDULED EQUIPMENT TAG	OED	OPEN END DUCT
T	THERMOSTAT	RA	RETURN AIR
H	HUMIDISTAT	RF	RETURN FAN
S	REMOTE TEMP/HUMIDITY SENSOR	RG	RETURN AIR GRILLE
C	CO2 SENSOR	RH	HOT WATER RE-HEAT
	DUCT SMOKE DETECTOR	RTU	ROOFTOP UNIT
	NEW TO EXISTING	SA	SUPPLY AIR
		SAT	SOUND ATTENUATORS
		SF	SUPPLY FAN
		SG	SUPPLY GRILLE
		SR	SUPPLY REGISTER
		TG	TRANSFER GRILLE
		UH	UNIT HEATER

MECHANICAL PIPING LEGEND

DOUBLE ELBOW DOWN			DOUBLE ELBOW DOWN (AT CORNER)
ELBOW DOWN			ELBOW UP
TEE			TEE DOWN
ELBOW			TEE UP
ELBOW DOWN TO TEE			END CAP
TYPICAL TEE CONNECTION (PLANS ONLY)			REDUCER
AUTOMATIC AIR VENT			NEW TO EXISTING PIPE CONNECTION
WATER FLOW MEASURING DEVICE			FLOW DIRECTION ARROW
PIPE ANCHOR			MANUAL AIR VENT (MAV)
PIPE GUIDE / SLEEVE			PRESSURE GAUGE
BALANCING VALVE			UNION
CIRCUIT SETTER			PRESSURE RELIEF VALVE
PRESSURE REDUCING VALVE		PT	PRESSURE/TEMPERATURE PORT
BALL VALVE/SHUT-OFF VALVE			AIR SEPARATOR
SILENT CHECK VALVE			PUMP OR PUMP
GLOBE VALVE			
TWO-WAY VALVE			FLEX CONNECTION
THREE-WAY VALVE			THERMOMETER
BUTTERFLY VALVE			COIL
SHUT-OFF COCK			PIPE VIEW
STRAINER		AI	ANALOG INPUT
STRAINER WITH BLOWDOWN		AO	ANALOG OUTPUT
SUCTION DIFFUSER W/ STRAINER AND BLOWDOWN		DI	DIGITAL INPUT
DRAIN VALVE		DO	DIGITAL OUTPUT
VACUUM BREAKER			
FLOW CONTROL VALVE W/ PRESSURE DIFFERENTIAL SENSOR	DP		
DIFFERENTIAL PRESSURE SENSOR	DP		

ABBREVIATIONS

A	AMP
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
AI	ANALOG INPUT
ALT	ALTERNATE
ANNC	ANNUNCIATOR
AO	ANALOG OUTPUT
APPRX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BLDG	BUILDING
BI	BLACK IRON
BOD	BOTTOM OF DUCTWORK
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT PER HOUR
BTWN	BETWEEN
C	CENTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CIRC	CIRCUIT
CL	CENTERLINE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CR	CEILING REGISTER
CW	DOMESTIC COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DI	DIGITAL INPUT
DIA OR Ø	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DIGITAL OUTPUT
DW	DEIONIZED WATER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	EC MOTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ELT	ENTERING LIQUID TEMPERATURE
EQ	EQUAL
EQUIP	EQUIPMENT
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATE OR ESTIMATED
ET	DIAPHRAGM EXPANSION TANK
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F&T	FLOAT AND THERMOSTATIC
FA	FRESH AIR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT (FEET)
FURN	FURNACE
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HB	HOSE BIB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HW	DOMESTIC HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
I/O	INPUT/OUTPUT
IA	INSTRUMENT AIR
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
J-BOX	JUNCTION BOX
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LLT	LEAVING LIQUID TEMPERATURE
LOC	LOCATION
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
LV	LOW VOLTAGE
LWT	LEAVING WATER TEMPERATURE
MA	MAKE-UP AIR OR MIXED AIR
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
NFC	NOT FOR CONSTRUCTION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN END DUCT
OPNG	OPENING
OPP	OPPOSITE
P	PUMP
PC	PLUMBING CONTRACTOR
PERP	PERPENDICULAR
PLBG	PLUMBING
PNL	PANEL
PPH	POUNDS PER HOUR
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
REV	REVERSE OR REVISION
RG	RETURN AIR GRILLE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SEP	SEPARATOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STM	STEAM
T&B	TEST AND BALANCE OR TOP AND BOTTOM
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TEMP	TEMPERATURE OR TEMPORARY
TG	TRANSFER GRILLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAR	VARIABLE OR VARIES
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VS	VENT STACK
VTR	VENT THRU ROOF
W/	WITH
WIN	WITHIN
WO	WITH OUT
WB	WET BULB
WC	WATER COLUMN (INCHES OF)
WCO	WALL CLEANOUT
WG	WATER GAUGE
WOG	WATER, OIL, GAS
WP	WEATHER PROOF
WP	WORKING PRESSURE
WT	WEIGHT

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MD101S	LEVEL 1 MECHANICAL DEMOLITION - SOUTH
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MD103S	ROOF MECHANICAL DEMOLITION- SOUTH
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M303S	ROOF MECHANICAL - SOUTH
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M603	MECHANICAL SCHEDULES
M701	MECHANICAL SCHEMATICS
M702	MECHANICAL SCHEMATICS
M703	MECHANICAL SCHEMATICS

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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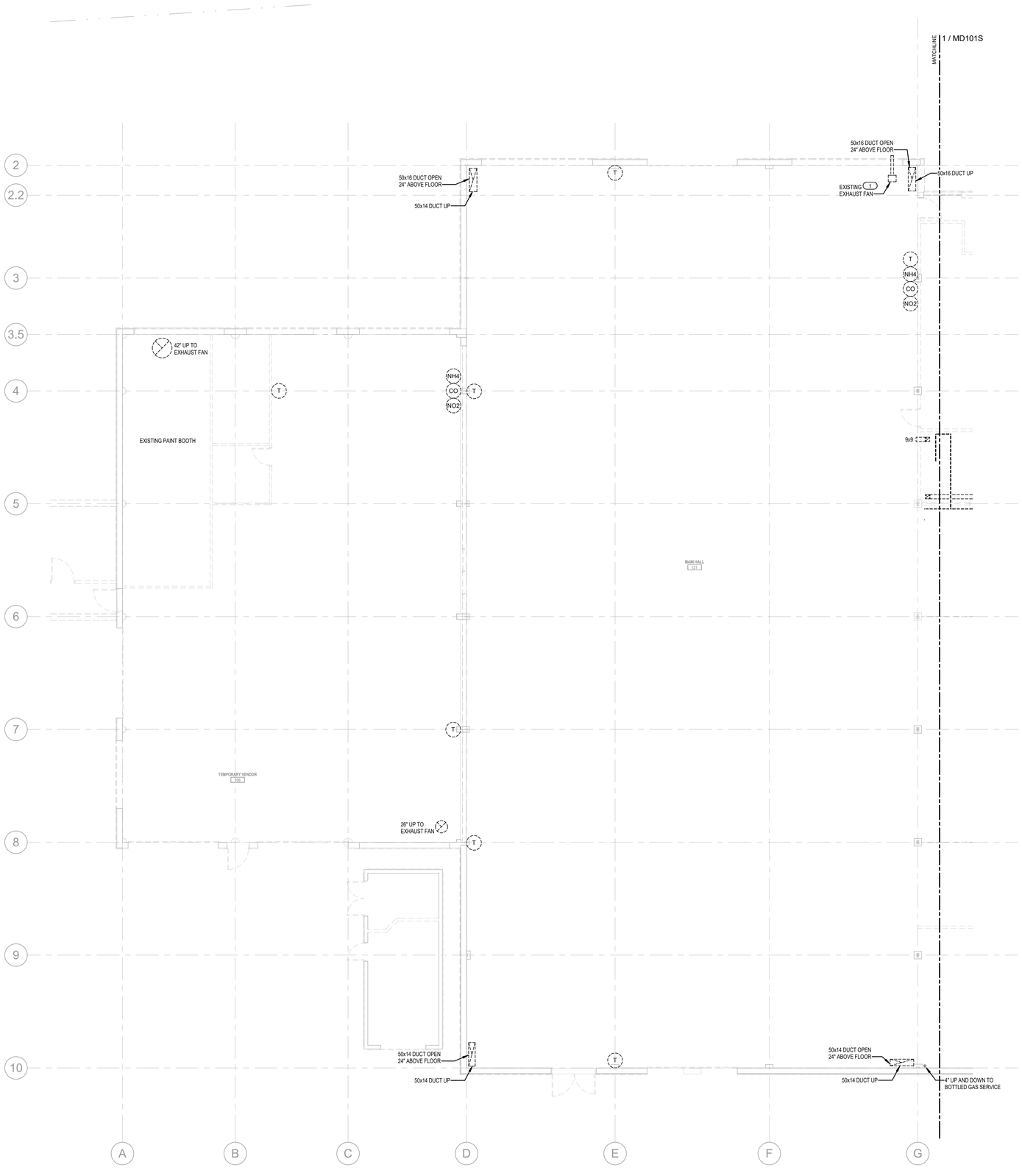
MECHANICAL NOTES, LEGENDS & ABBREVIATIONS

M001



1 LEVEL 1 MECHANICAL DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL EQUIPMENT, DUCTWORK, AND PIPING SHOWN OR NOT SHOWN SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED.
B. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, PIPING, AND DUCTWORK SHOWN DASHED. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
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G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, HANGERS, AND CONTROLS. PATCHING AND SEALING OF OPENING SHALL BE COORDINATED WITH GC.

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Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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LEVEL 1 MECHANICAL DEMOLITION - NORTH

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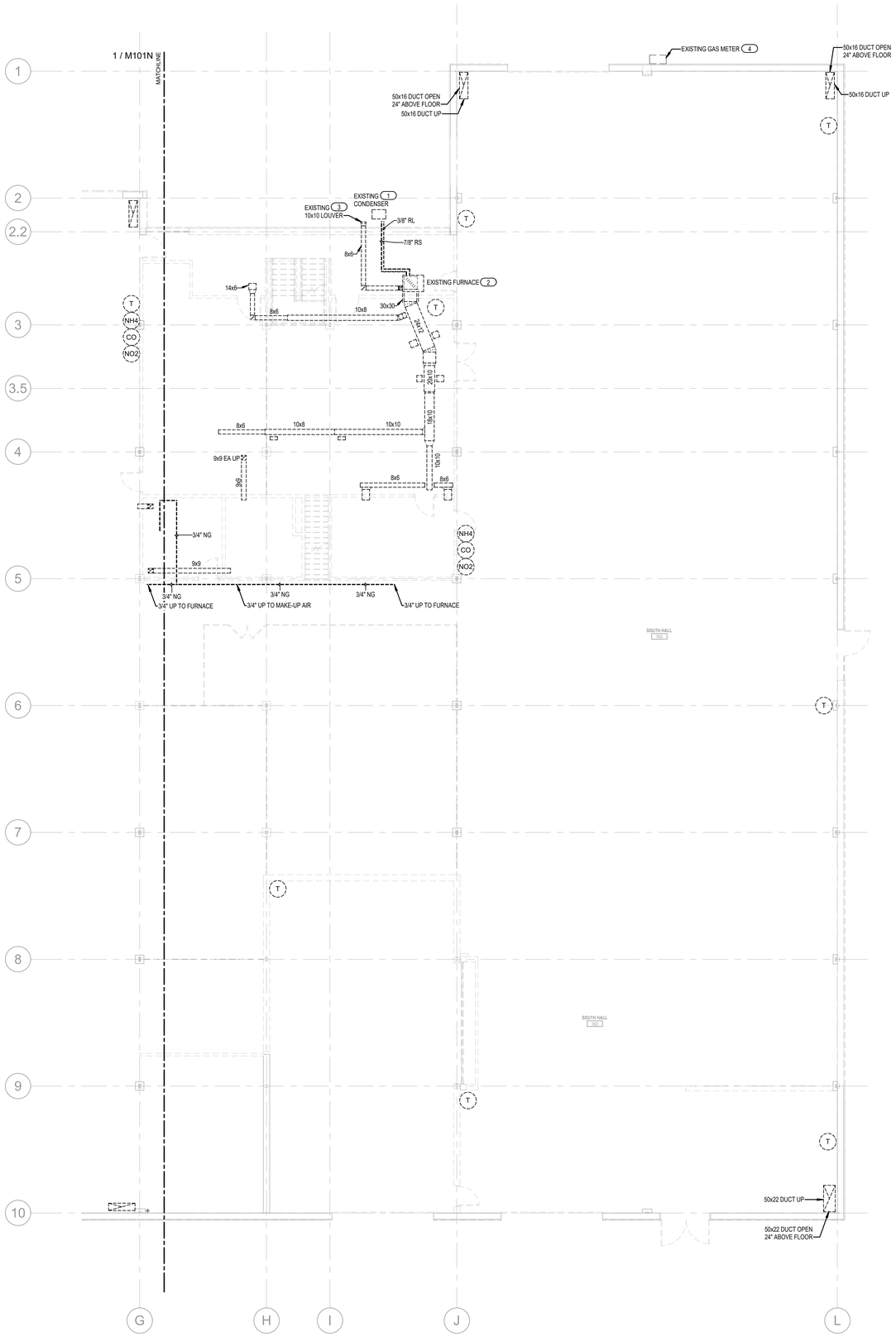

2 LEVEL 1 MECHANICAL DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

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G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND SUPPORT. PATCHING AND SEALING OF OPENING SHALL BE COORDINATED WITH GC.
2. REMOVE EXISTING FURNACE AND ASSOCIATED GAS PIPING, DUCTWORK, CONTROLS, AND HANGERS.
3. REMOVE EXISTING LOUVER AND ASSOCIATED DUCTWORK AND HANGERS. PATCHING AND SEALING OF OPENING SHALL BE COORDINATED WITH GC.
4. EXISTING GAS METER TO BE REMOVED AND REPLACED WITH NEW. REFER TO SHEET M101S FOR NEW METER LOCATION

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Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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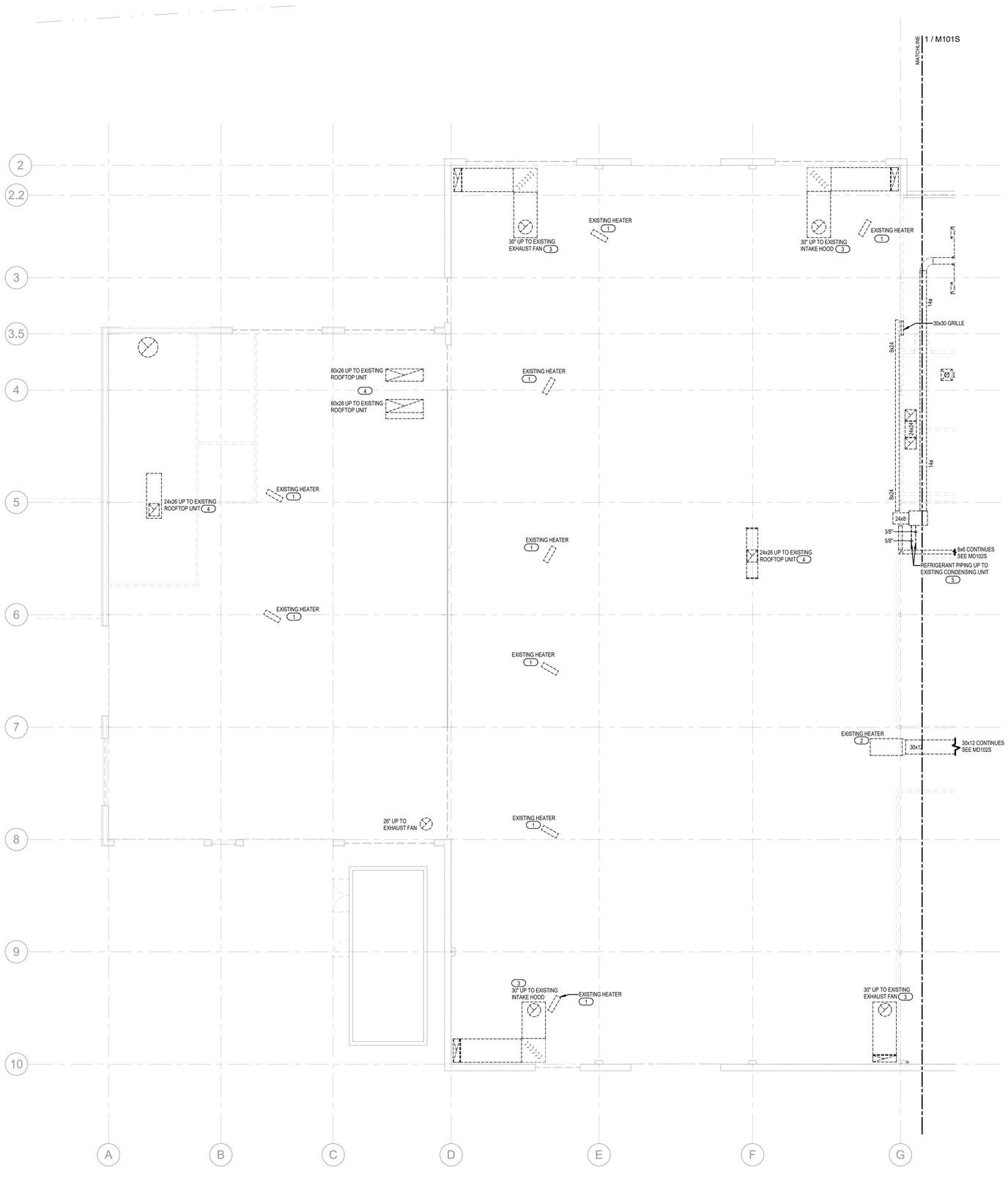
LEVEL 1 MECHANICAL DEMOLITION - SOUTH

MD101S



1 MEZZANINE MECHANICAL DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

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B. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, PIPING, AND DUCTWORK SHOWN DASHED. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
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G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. REMOVE EXISTING UNIT HEATER AND ASSOCIATED GAS PIPING, HANGERS, AND CONTROLS.
2. REMOVE EXISTING HEATER AND ASSOCIATED DUCTWORK, GAS PIPING, HANGERS, AND CONTROLS.
3. EXHAUST DUCTWORK SHALL BE REMOVED FROM EXHAUST FAN / INTAKE HOOD TO END OF RUN. PATCHING AND SEALING OF ROOF SHALL BE COORDINATED WITH GC.
4. DUCTWORK AND GAS PIPING FROM EXISTING ROOFTOP UNIT SHALL BE REMOVED FROM UNIT TO END OF RUN. PATCHING AND SEALING OF ROOF SHALL BE COORDINATED WITH GC.
5. REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND SUPPORT. PATCHING AND SEALING OF OPENING SHALL BE COORDINATED WITH GC.

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Engineer Seal

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22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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MEZZANINE
MECHANICAL
DEMOLITION - NORTH

MD102N

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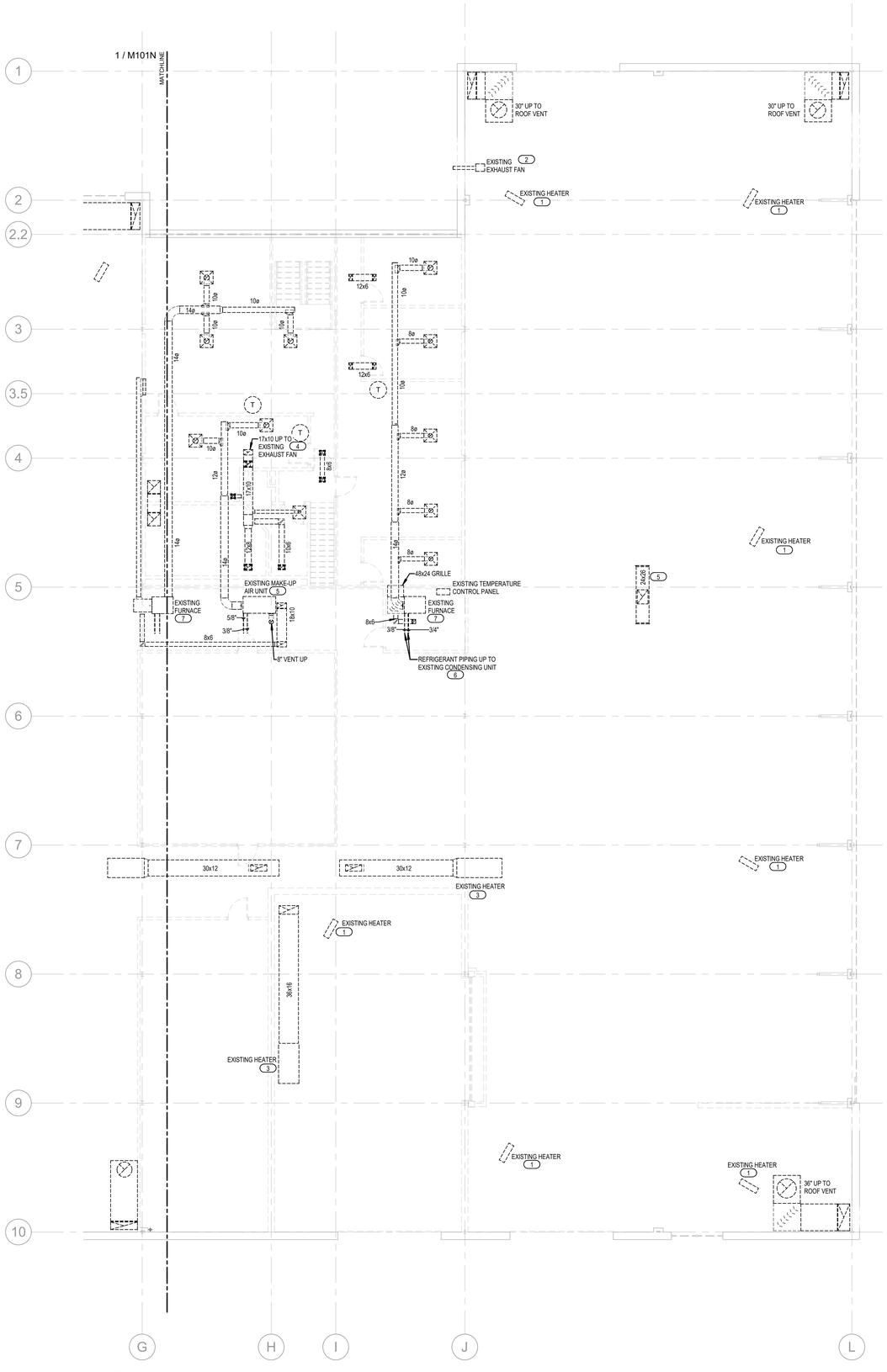

1 MEZZANINE MECHANICAL DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

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3. REMOVE EXISTING HEATER AND ASSOCIATED DUCTWORK, GAS PIPING, HANGERS, AND CONTROLS.
4. EXHAUST DUCTWORK SHALL BE REMOVED FROM EXHAUST FAN / INTAKE HOOD TO END OF RUN. PATCHING AND SEALING OF ROOF SHALL BE COORDINATED WITH GC.
5. DUCTWORK AND GAS PIPING FROM EXISTING ROOFTOP UNIT SHALL BE REMOVED FROM UNIT TO END OF RUN. PATCHING AND SEALING OF ROOF SHALL BE COORDINATED WITH GC.
6. REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND SUPPORT. PATCHING AND SEALING OF OPENING SHALL BE COORDINATED WITH GC.
7. REMOVE EXISTING FURNACE AND ASSOCIATED GAS PIPING, DUCTWORK, CONTROLS, AND HANGERS.

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Signature

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MEZZANINE MECHANICAL DEMOLITION - SOUTH

MD102S

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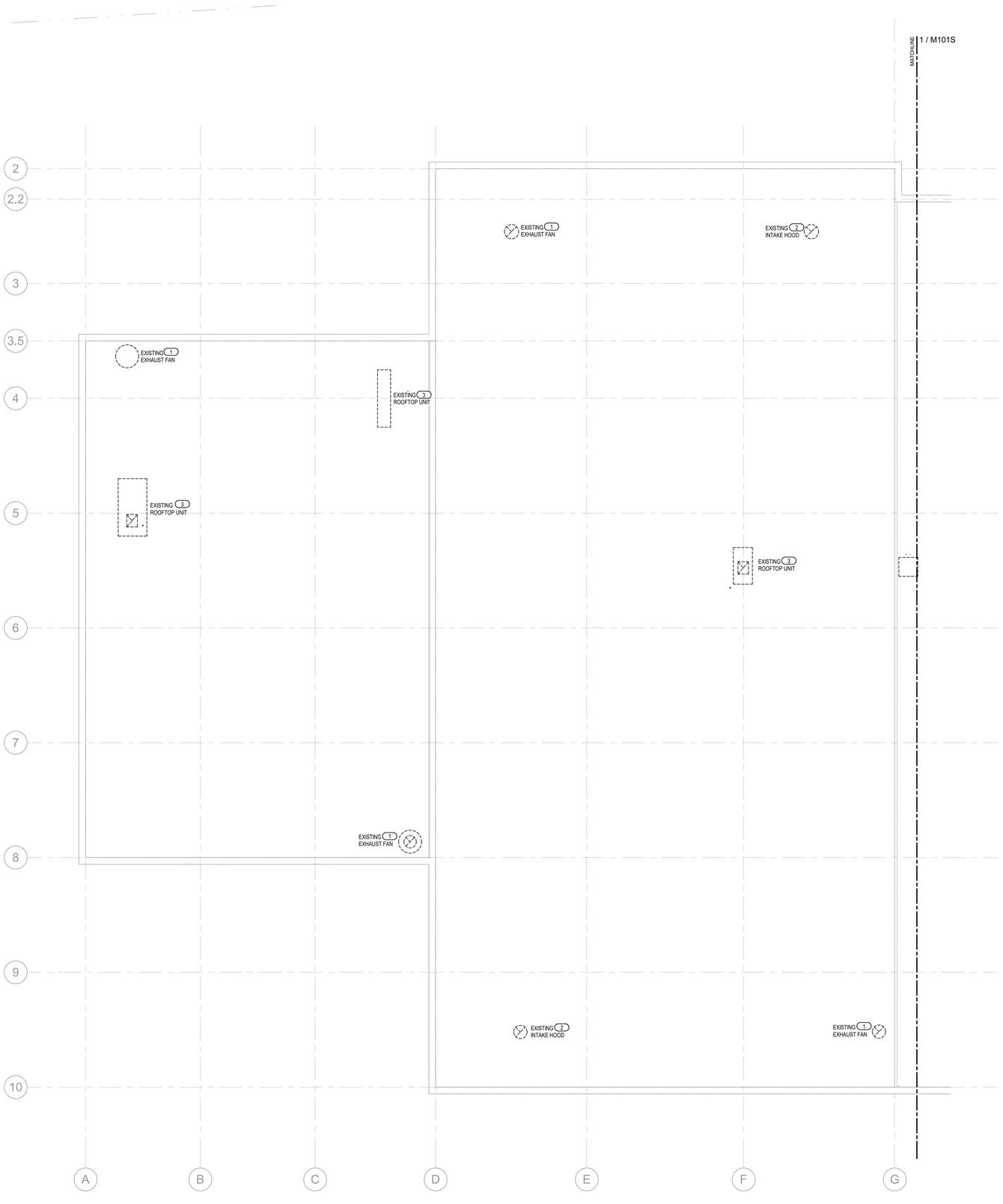

1 ROOF MECHANICAL DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

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KEYED NOTES

1. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.
2. REMOVE EXISTING INTAKE HOOD AND ASSOCIATED DUCTWORK, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.
3. REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED DUCTWORK, GAS PIPING, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.

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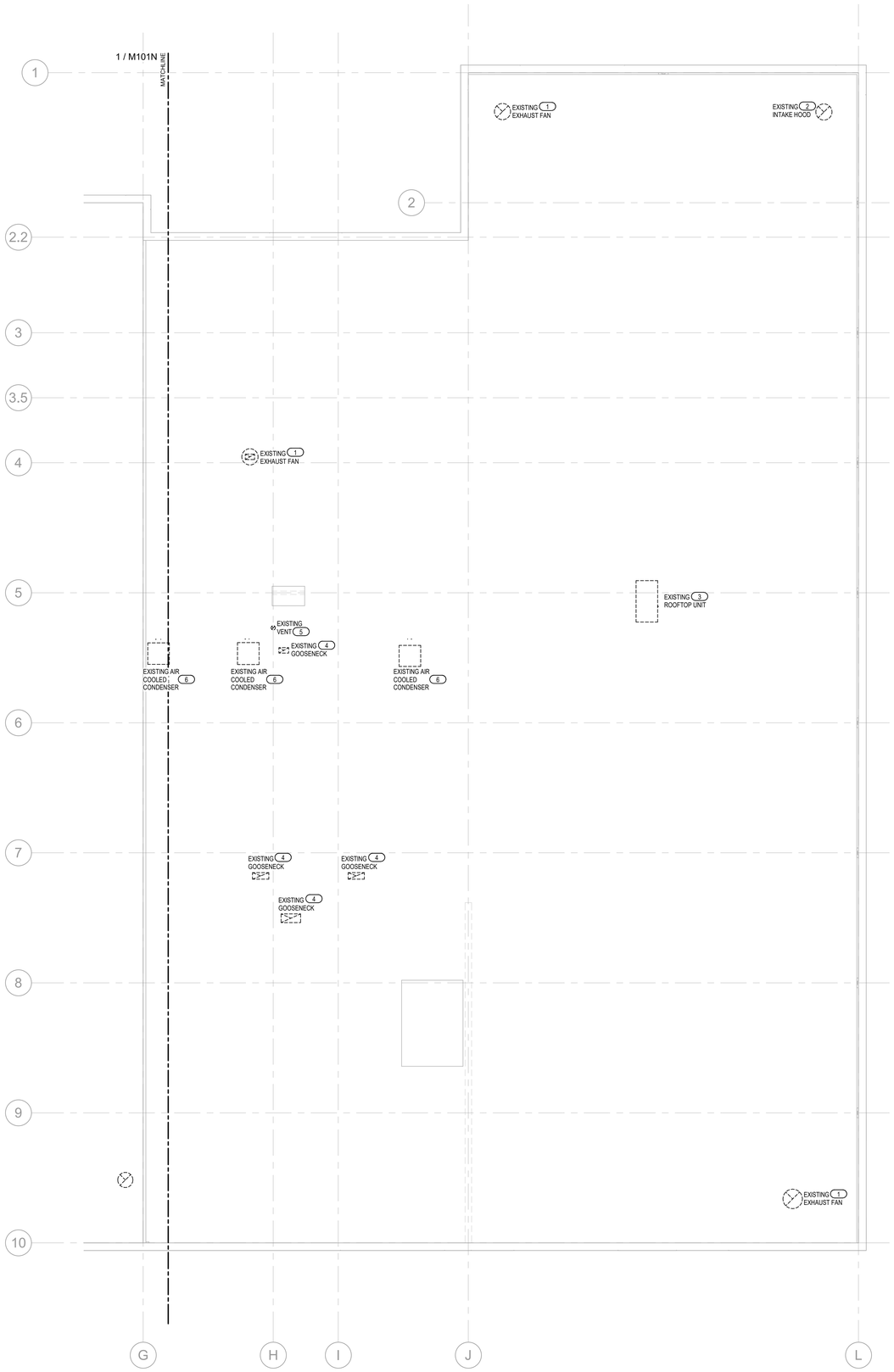
ROOF MECHANICAL DEMOLITION- NORTH

MD103N



1 ROOF MECHANICAL DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL EQUIPMENT, DUCTWORK, AND PIPING SHOWN OR NOT SHOWN SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED.
B. CONTRACTOR SHALL REMOVE ALL EQUIPMENT, PIPING, AND DUCTWORK SHOWN DASHED. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.
C. DUCT RUN-OUTS, DIFFUSERS, ETC, ARE NOT SHOWN; ALL SUCH SHALL BE REMOVED. PIPING RUN-OUTS ARE NOT SHOWN; ALL SUCH SHALL BE REMOVED.
D. DEMOLITION SHALL INCLUDE ALL HANGERS AND SUPPORTS; NO SUCH SHALL BE LEFT IN PLACE.
E. DEMOLITION SHALL INCLUDE ALL CONTROLS AND BUILDING AUTOMATION SYSTEMS; NO SUCH SHALL BE LEFT IN PLACE.
F. THIS CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF NON-STRUCTURAL BUILDING COMPONENTS AS NEEDED TO EXECUTE DEMOLITION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF STRUCTURAL COMPONENTS SUCH AS FLOORS, STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.
G. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

KEYED NOTES

1. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.
2. REMOVE EXISTING INTAKE HOOD AND ASSOCIATED DUCTWORK, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.
3. REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED DUCTWORK, GAS PIPING, CONTROLS, SUPPORTS, AND ROOF CURB. COORDINATE PATCHING OF ROOF WITH GC.
4. REMOVE EXISTING GOOSENECK. COORDINATE PATCHING OF ROOF WITH GC.
5. REMOVE EXISTING 6" VENT BACK TO MAKE-UP AIR UNIT. COORDINATE PATCHING OF ROOF WITH GC.
6. REMOVE EXISTING AIR COOLED CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING, SUPPORTS, CONTROLS, AND ROOF CURB.

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Project No: M10.19.04

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

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Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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ROOF MECHANICAL DEMOLITION- SOUTH

MD103S

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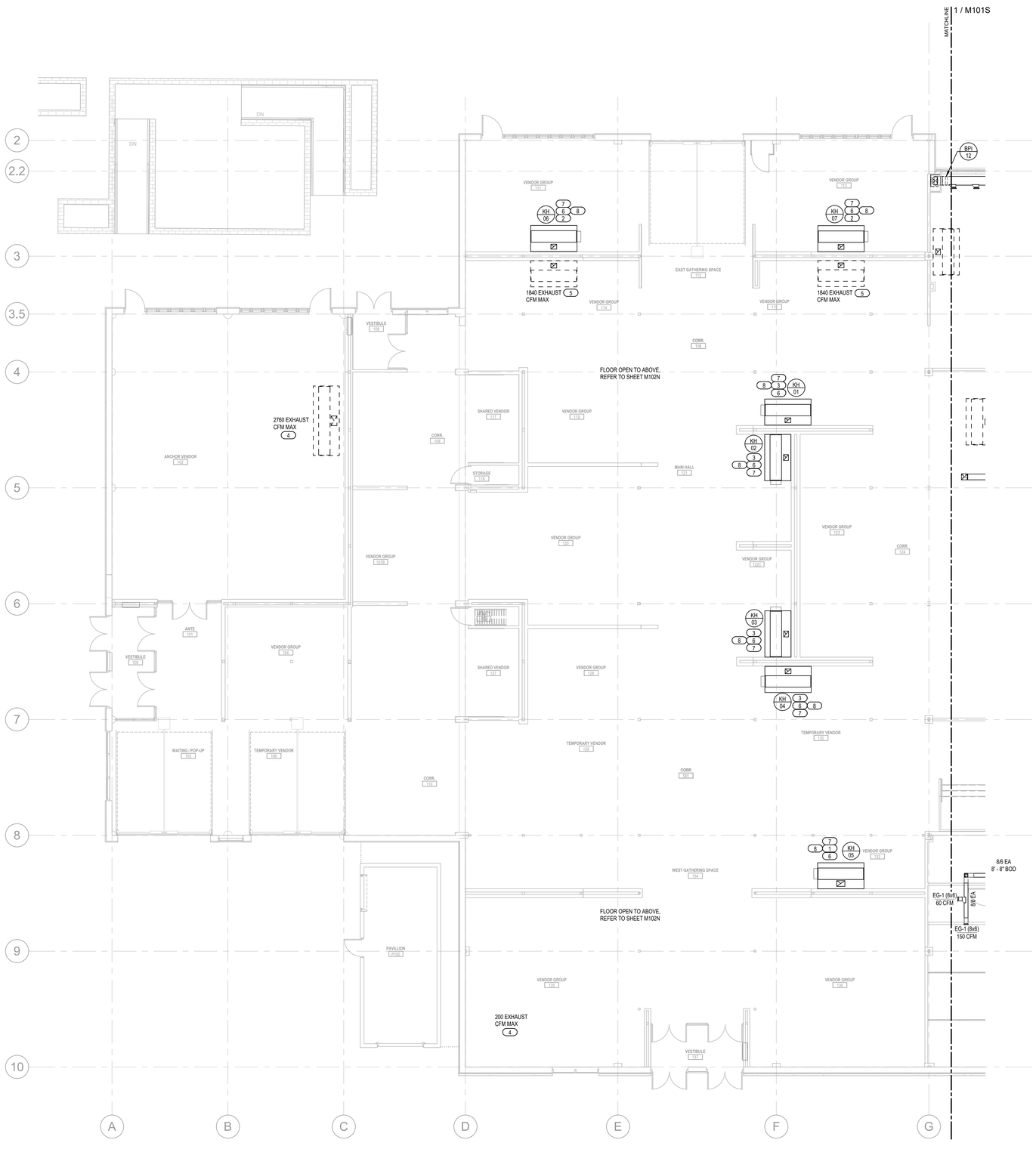

1 LEVEL 1 MECHANICAL DUCTWORK - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.
B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. SOLID FUEL KITCHEN HOOD WITH VOLUME CONTROLS. REFER TO SCHEDULE.
2. HEAVY DUTY KITCHEN HOOD WITH VOLUME CONTROL. REFER TO SCHEDULE.
3. MEDIUM DUTY KITCHEN HOOD WITH VOLUME CONTROL. REFER TO SCHEDULE.
4. FUTURE KITCHEN HOOD NOT IN SCOPE, MAU-01 / 02 SIZED TO HANDLE THIS FUTURE ADDITION. FUTURE EXHAUST FAN APPROXIMATE LOCATION SHOWN ON M103N. MAXIMUM EXHAUST CFM NOTED ON PLAN.
5. FUTURE KITCHEN HOOD NOT IN SCOPE, MAU-01 / 02 SIZED TO HANDLE THIS FUTURE ADDITION. ASSOCIATED EXHAUST FAN ALSO SIZED TO HANDLE THIS FUTURE ADDITION. MAXIMUM EXHAUST CFM NOTED ON PLAN.
6. ROUTE FIRE-RATED GREASE EXHAUST DUCT UP. REER TO M102N FOR CONTINUATION.
7. EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
8. ANSUL SYSTEM TO BE MOUNTED ON KICHEN HOOD. MECHANICAL CONTRACTOR RESPONSIBLE FOR ALL PIPING AND CONTROL ELEMENTS ASSOCIATED; INCLUDING GAS SHUT OFF SOLENOID VALVE.

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WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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LEVEL 1 MECHANICAL DUCTWORK - NORTH

M101N

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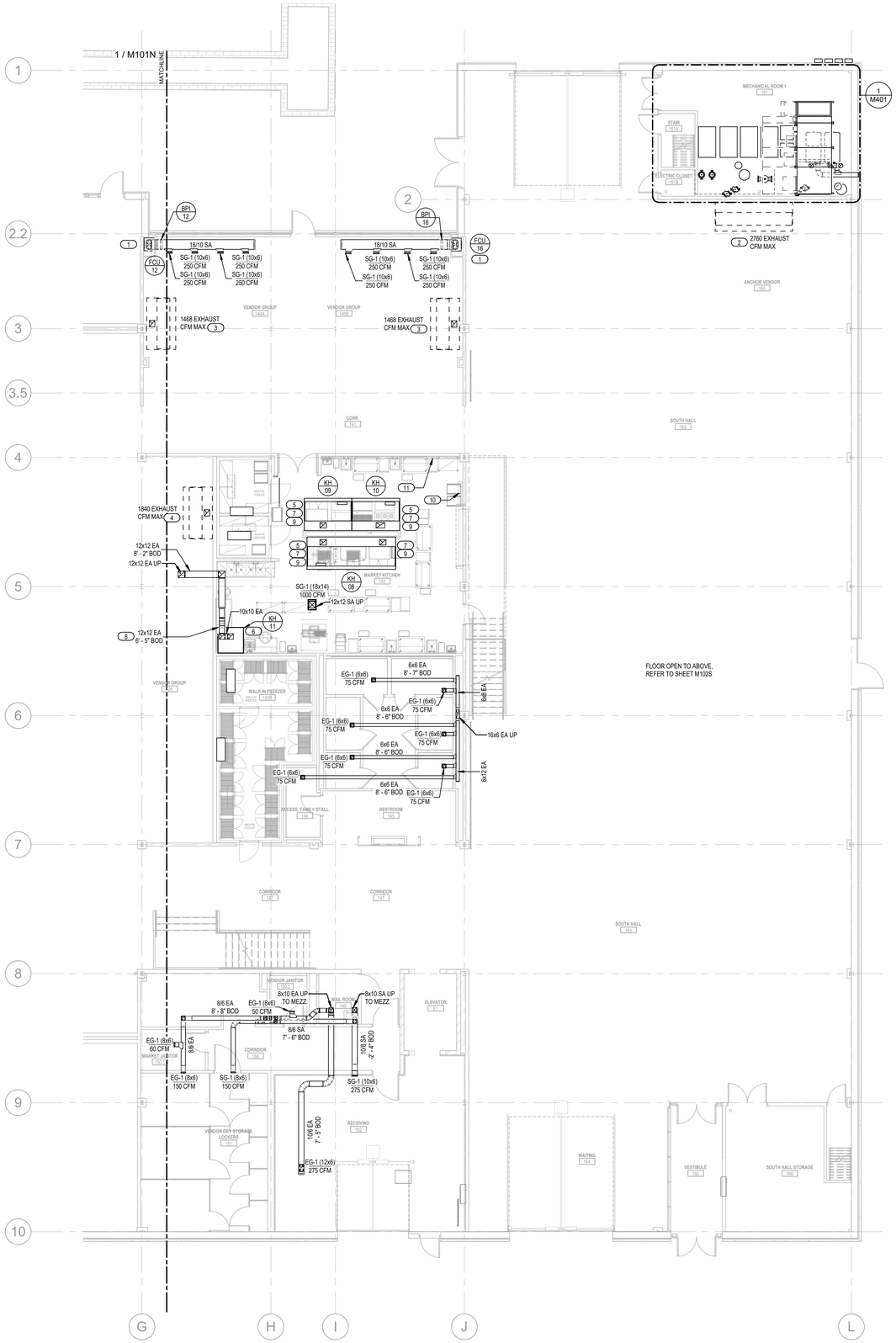

1 LEVEL 1 MECHANICAL DUCTWORK - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.
B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. FOUR PIPE FAN COIL UNIT. REFER TO FAN COIL DETAIL / COIL DETAIL / AND CONDENSATE TRAP DETAIL.
2. FUTURE KITCHEN HOOD NOT IN SCOPE, AHU-01 SIZED TO HANDLE THIS FUTURE ADDITION. FUTURE EXHAUST FAN APPROXIMATE LOCATION SHOWN ON M103S. MAXIMUM EXHAUST CFM NOTED ON PLAN.
3. FUTURE KITCHEN HOOD NOT IN SCOPE, MAU-01 / 02 SIZED TO HANDLE THIS FUTURE ADDITION. FUTURE EXHAUST FAN APPROXIMATE LOCATION SHOWN ON M103S. MAXIMUM EXHAUST CFM NOTED ON PLAN.
4. FUTURE KITCHEN HOOD NOT IN SCOPE, MAU-01 / 02 SIZED TO HANDLE THIS FUTURE ADDITION. ASSOCIATED EXHAUST FAN ALSO SIZED FOR THIS ADDITION. MAXIMUM EXHAUST CFM NOTED ON PLAN.
5. KITCHEN HOOD FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL SCHEDULE FOR KITCHEN HOOD REQUIREMENTS.
6. DISHWASHER CONDENSATE HOOD FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL SCHEDULE FOR DISHWASHER HOOD REQUIREMENTS. DUCT ASSOCIATED WITH HOOD SHALL BE ALUMINUM.
7. ROUTE FIRE-RATD GREASE EXHAUST DUCT UP. REER TO M102S FOR CONTINUATION.
8. ROUTE DISHWASHER EXHAUST DUCT BELOW CEILING, AS HIGH AS POSSIBLE, AND AGAINST WALL. BOD ELEVATION APPROXIMATE.
9. EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
10. APPROXIMATE REMOTE ANSUL LOCATION. MECHANICAL CONTRACTOR RESPONSIBLE FOR ALL PIPING AND CONTROL ELEMENTS ASSOCIATED; INCLUDING GAS SHUT OFF SOLENOID VALVE.
11. LOCATION OF KITCHEN HOOD CONTROL PANEL. LOCATE 42" ABOVE FINISHED FLOOR.

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PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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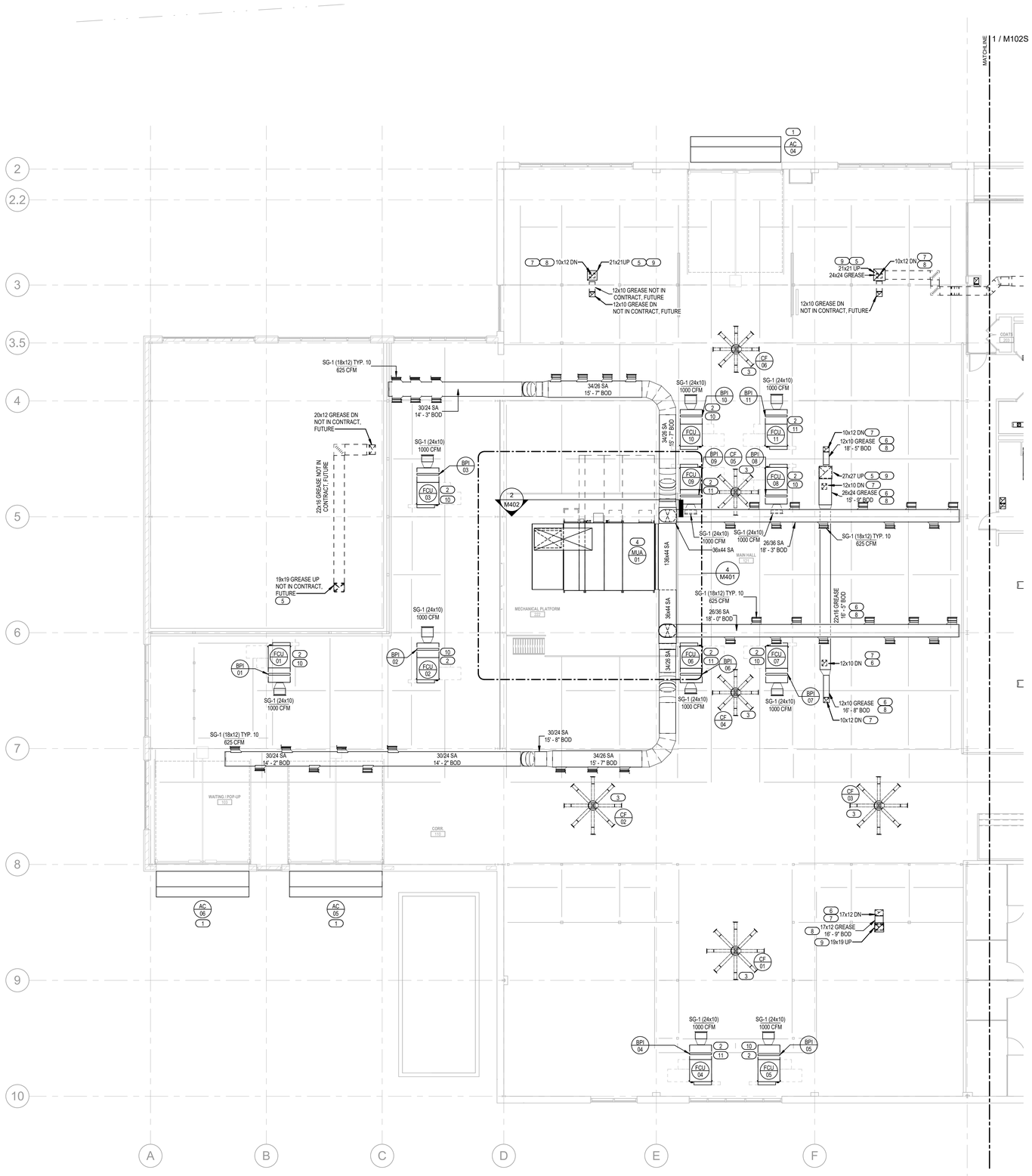
LEVEL 1 MECHANICAL DUCTWORK - SOUTH

M101S



2 MEZZANINE MECHANICAL DUCTWORK - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.
B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. PEST CONTROL AIR CURTAIN. SEE ARCHITECTURAL FOR MOUNTING LOCATION.
2. FOUR PIPE FAN COIL UNIT. REFER TO FAN COIL DETAIL / COIL DETAIL / AND CONDENSATE TRAP DETAIL.
3. HIGH VOLUME, LOW VELOCITY FAN. INSTALL SUCH THAT BLADES ARE 24" BELOW BOTTOM OF JOIST.
4. MAKE-UP AIR UNIT INSTALLED ON MEZZANINE PLATFORM. REFER TO COIL DETAIL AND ENLARGED PLAN 4/M401.
5. ROUTE FIRE-RATED GREASE EXHAUST DUCT UP TO EXHAUST FAN.
6. ROUTE FIRE-RATED GREASE EXHAUST DUCT WITH ROUTE AS SHOWN AND AT ELEVATION AS NOTED. MAINTAIN SLOPE OF DUCT BACK TO HOOD, PER CODE. INCLUDE ACCESS FOR CLEANOUTS AT ELBOWS AS REQUIRED BY CODE.
7. EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
8. EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
9. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
10. FCU SHALL HAVE ELECTRICAL CONTROL BOX LOCATED ON RIGHT HAND SIDE OF UNIT. ACCESS SHLL BE FROM PUBLIC SPACE, NOT FROM THE VENDOR STALL
11. FCU SHALL HAVE ELECTRICAL CONTROL BOX LOCATED ON LEFT HAND SIDE OF UNIT. ACCESS SHLL BE FROM PUBLIC SPACE, NOT FROM THE VENDOR STALL
12. DUCTWORK SHALL BE ROUTED AS CLOSE TO THE CANOPY AS POSSIBLE TO MINIMIZE BEING SEEN FROM BELOW.

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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MEZZANINE MECHANICAL DUCTWORK - NORTH

M102N

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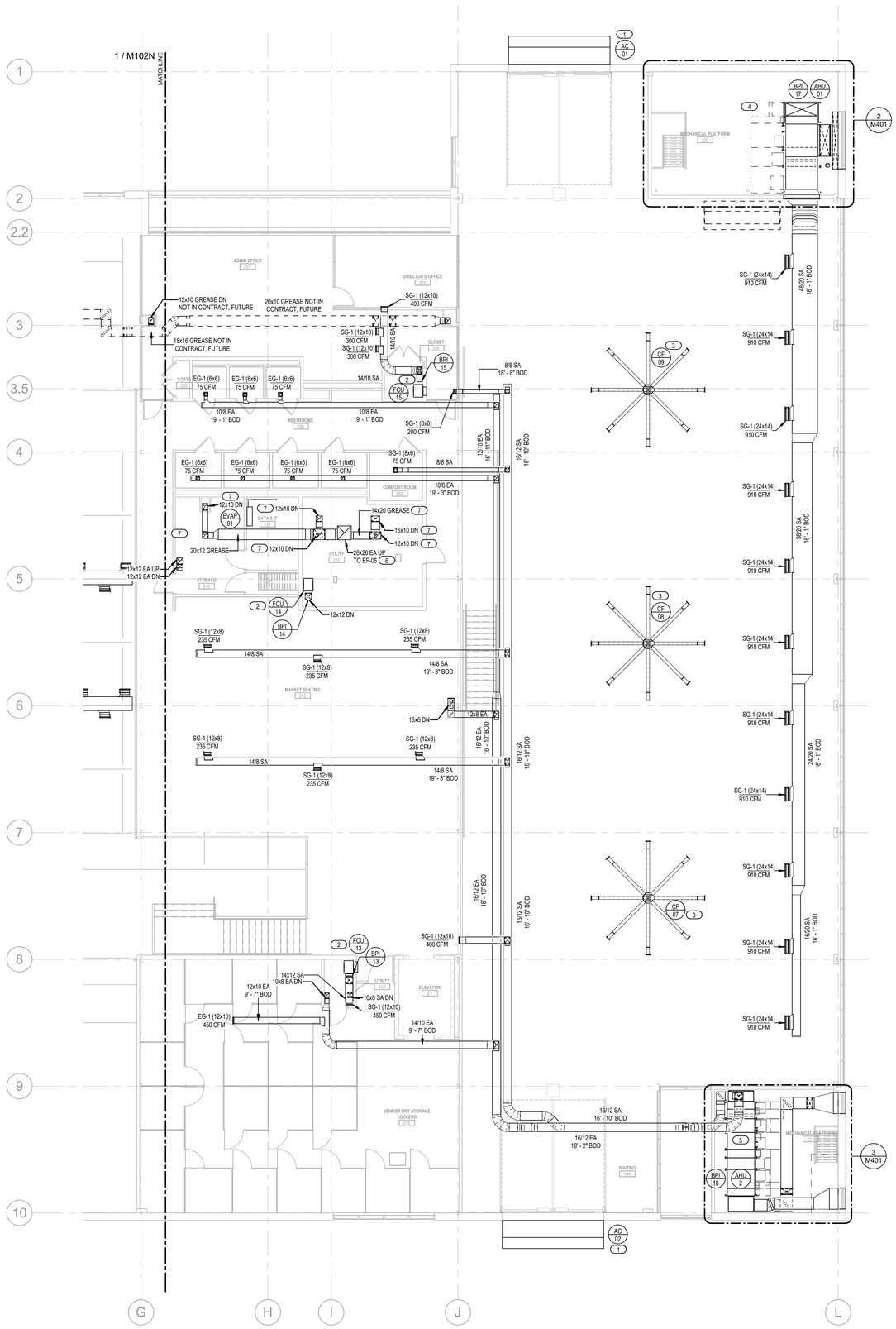

1 MEZZANINE MECHANICAL DUCTWORK - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.
B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. PEST CONTROL AIR CURTAIN. SEE ARCHITECTURAL FOR MOUNTING LOCATION.
2. FOUR PIPE FAN COIL UNIT. REFER TO FAN COIL DETAIL / COIL DETAIL / AND CONDENSATE TRAP DETAIL.
3. HIGH VOLUME, LOW VELOCITY FAN. INSTALL SUCH THAT BLADES ARE 24" BELOW BOTTOM OF JOIST.
4. AIR HANDLING UNIT INSTALLED ON MEZZANINE PLATFORM. REFER TO COIL DETAIL AND ENLARGED PLAN 2/M401.
5. AIR HANDLING UNIT INSTALLED ON MEZZANINE PLATFORM. REFER TO COIL DETAIL AND ENLARGED PLAN 3/M401.
6. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
7. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.

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MEZZANINE MECHANICAL DUCTWORK - SOUTH

M102S

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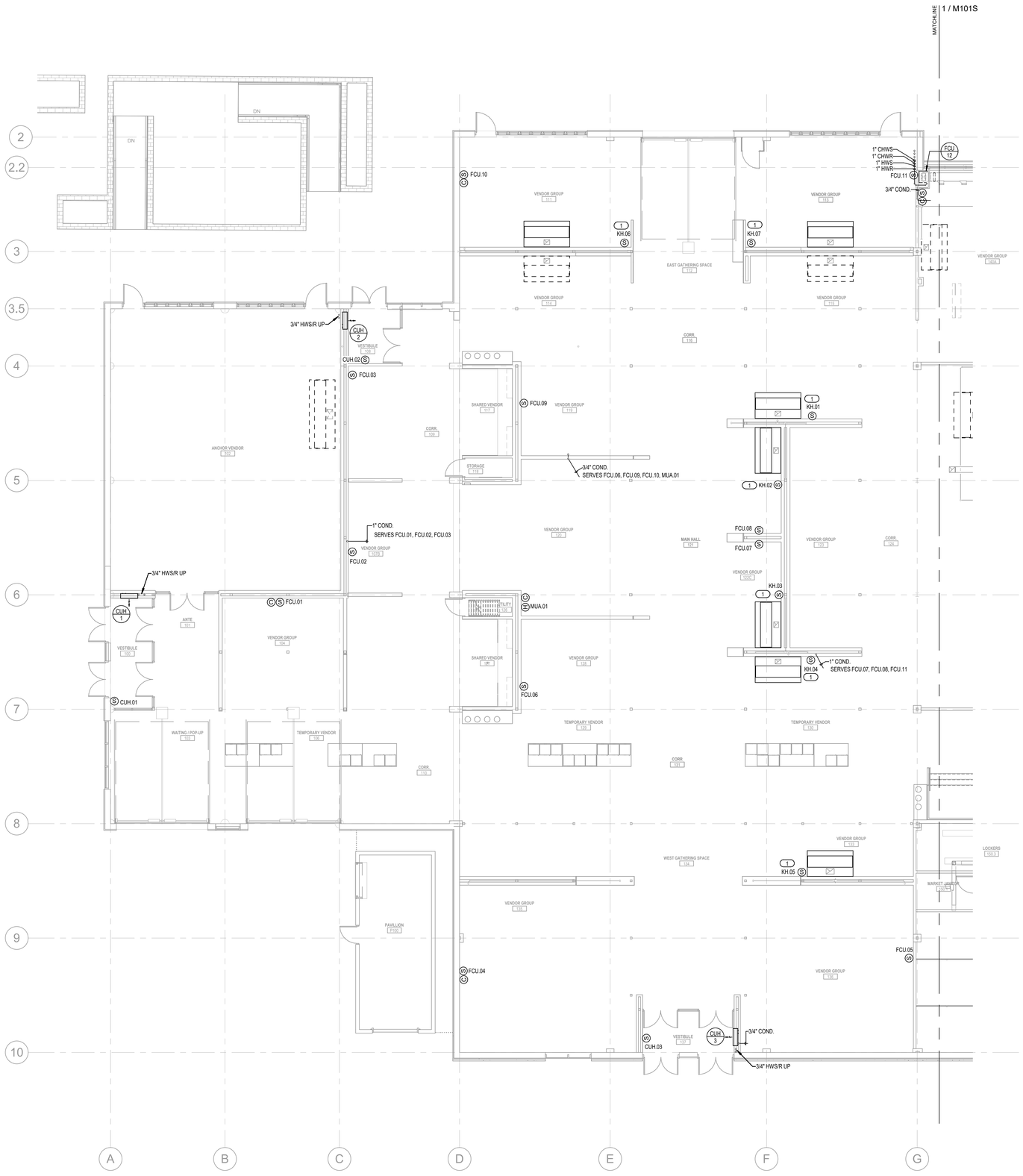
GENERAL NOTES

A. PIPING ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

(1) CONTROLS PROVIDED BY KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY TEMPERATURE CONTROLS CONTRACTOR.



1 LEVEL 1 MECHANICAL PIPING - NORTH

1/8" = 1'-0"

PROJECT NORTH

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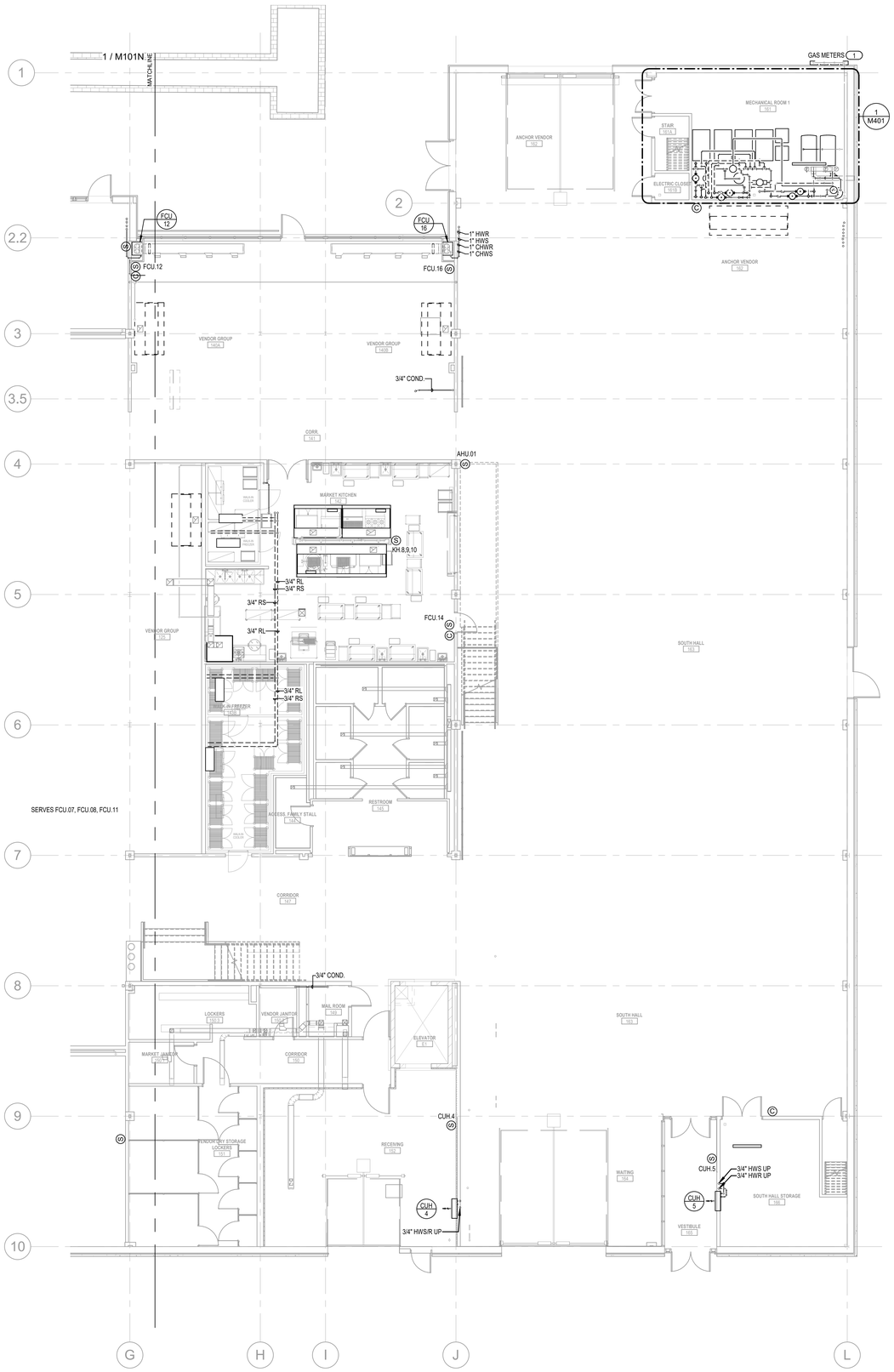
LEVEL 1 MECHANICAL PIPING - NORTH

M201N



2 LEVEL 1 MECHANICAL PIPING - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. PIPING ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. NEW NATURAL GAS METER BY UTILITY. NEW LOAD PER SHEET M001. INCOMING PRESSURE REDUCED TO 2.0 PSI AT METER. REFER TO NATURAL GAS SCHEMATIC.

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Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

Project No. M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
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IL
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Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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LEVEL 1 MECHANICAL PIPING - SOUTH

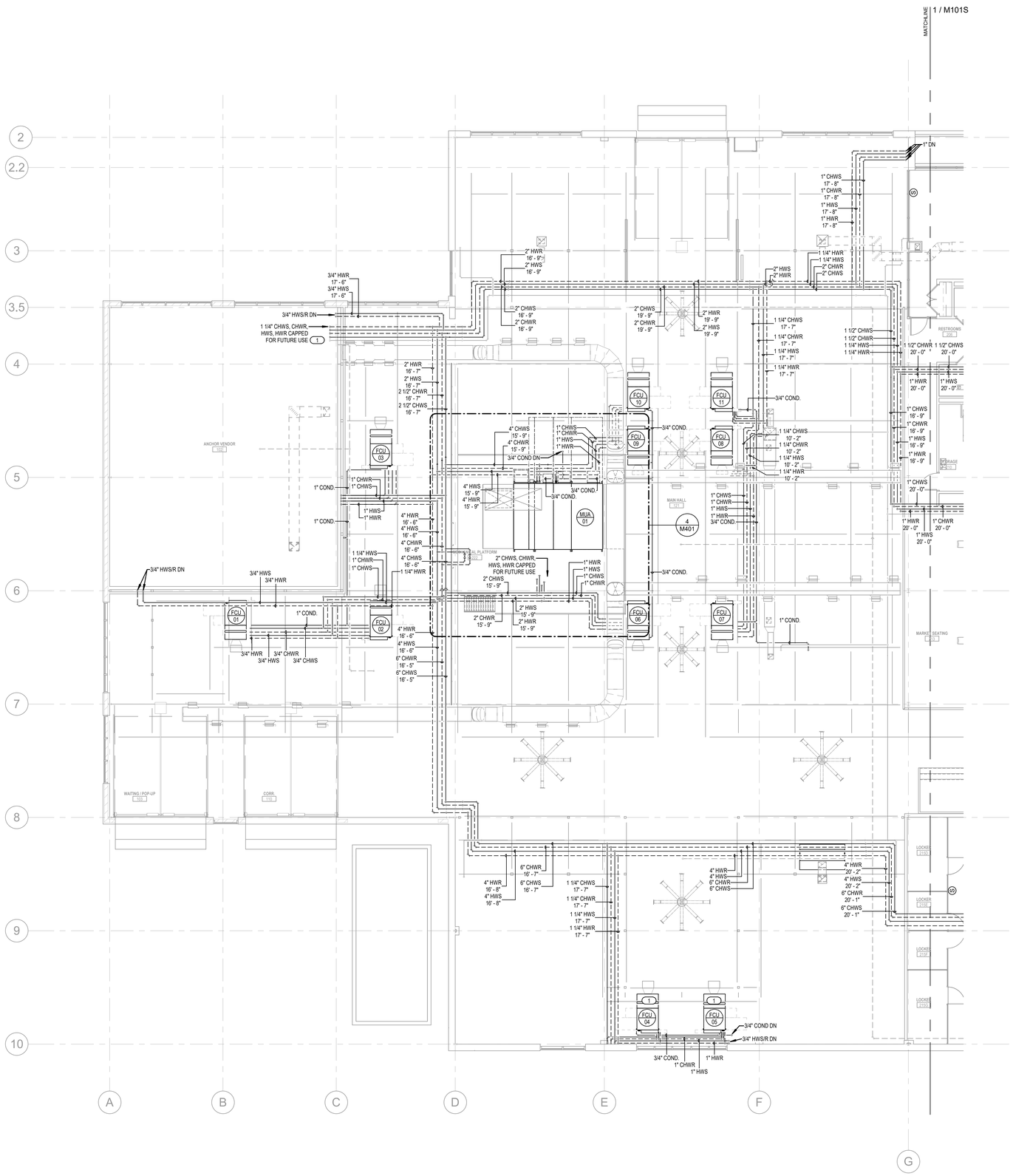
M201S

GENERAL NOTES

A. PIPING ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

(1) PROVIDE X" HWS/R AND Y" CHWS/R INTO FUTURE ANCHOR TENANT SPACE FOR BUILD-OUT. SIZING ALLOWS FOR X GPM OF HEATING WATER AND Y GPM OF CHILLED WATER.



1 MEZZANINE MECHANICAL PIPING - NORTH

1/8" = 1'-0"

PROJECT NORTH

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

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MEZZANINE MECHANICAL PIPING - NORTH

M202N

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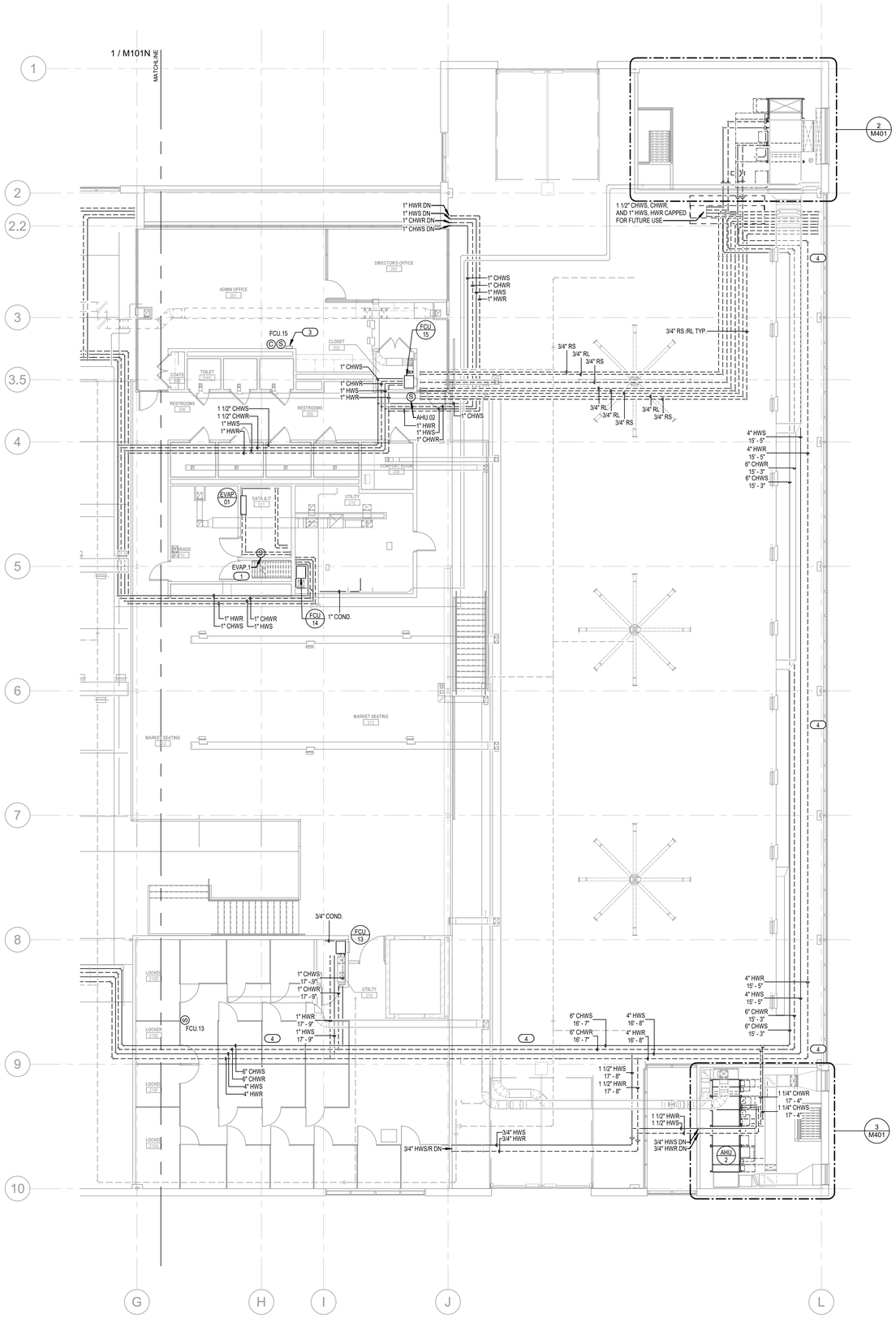

1 MEZZANINE MECHANICAL PIPING - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. PIPING ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. 3/4" REFRIGERANT PIPING UP TO EVAP-01. REFER TO SHEET M-303S
2. NOT USED.
3. LOCAL CIRCULATION FAN SWITCH TO BE LOCATED IN THIS APPROXIMATE LOCATION
4. CONTRACTOR SHALL PROVIDE AN ALTERNATE PRICING FOR REVERSE RETURN PIPING FOR BOTH CHILLED AND HEATING WATER SYSTEMS.

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MEZZANINE MECHANICAL PIPING - SOUTH

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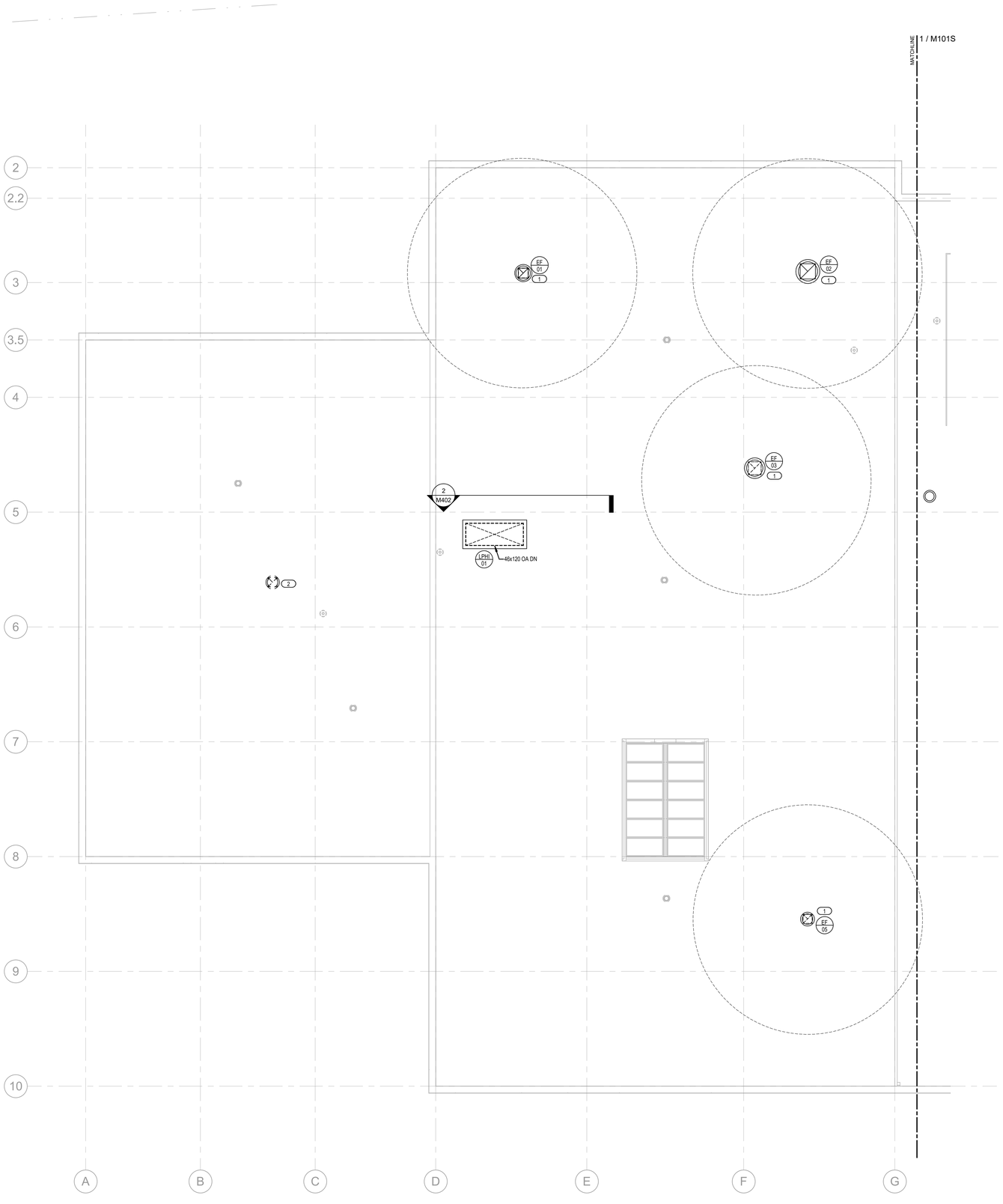

GENERAL NOTES

A. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.
B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. 20 FOOT RADIUS SHOWN AROUND GREASE EXHAUST FOR CLEARANCES
2. FUTURE EXHAUST FAN NOT IN SCOPE. EXHAUST FAN SHOWN FOR FUTURE APPROXIMATE LOCATION

2 ROOF MECHANICAL DUCTWORK - NORTH

1/8" = 1'-0"

PROJECT NORTH

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Project No: MTG.19.04

MADISON PUBLIC MARKET

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Engineer Seal

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22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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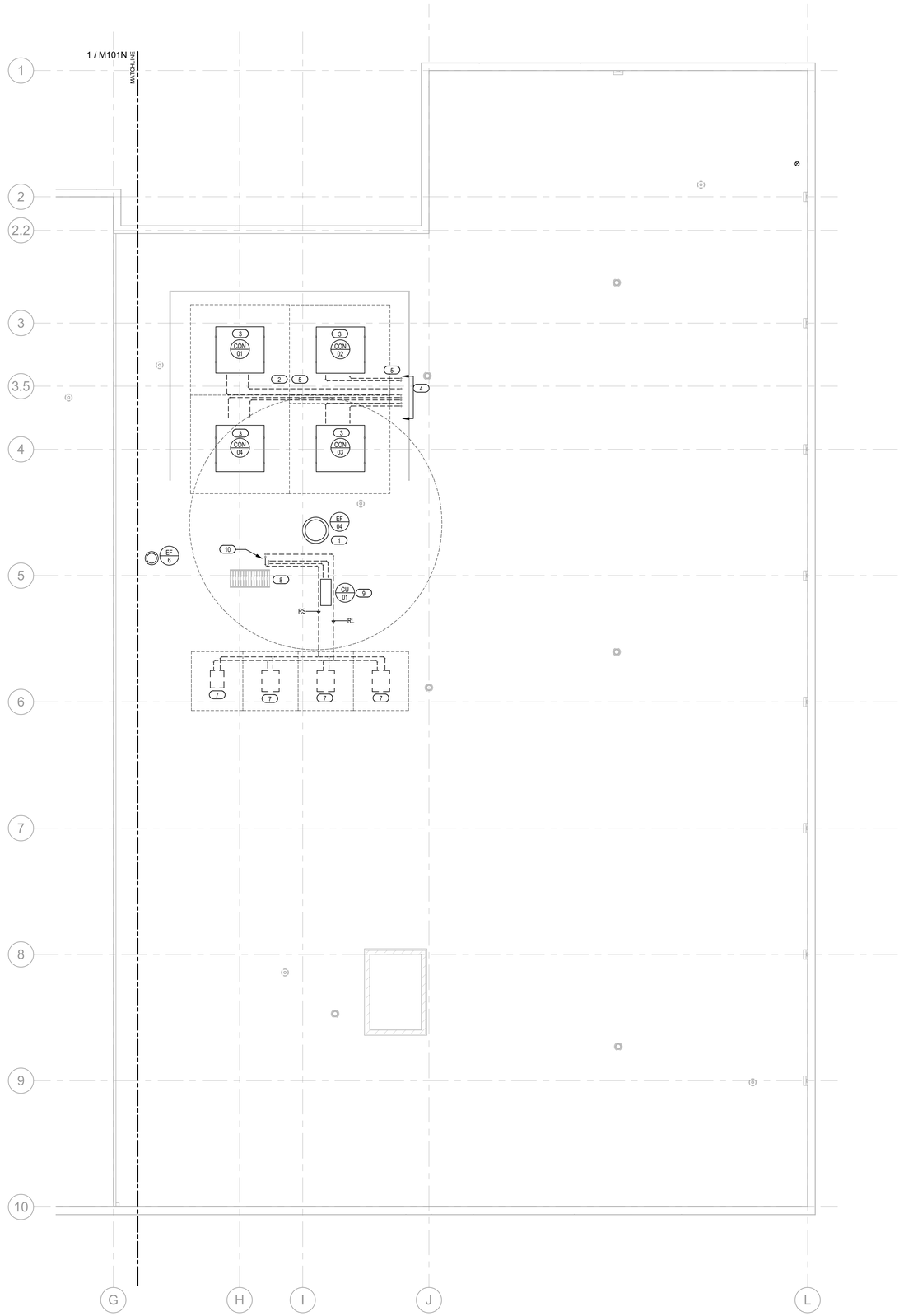
ROOF MECHANICAL - NORTH

M303N



1 ROOF MECHANICAL DUCTWORK - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

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B. REFER TO M200 SHEETS FOR SENSOR LOCATIONS.
C. ANY CONCEALED GREASE DUCTWORK SHALL BE FIRE-WRAPPED. ALL PENETRATIONS THROUGH ROOF SHALL BE FIRE-WRAPPED.
D. ANY EXPOSED GREASE DUCTWORK BELOW 11' AFF SHALL BE DOUBLE-WALL, WITH STAINLESS STEEL OUTER WALL.
E. ANY EXPOSED GREASE DUCTWORK ABOVE 11' AFF SHALL BE SINGLE WALL BLACK STEEL DUCTWORK, AND MAINTAIN 3" CLEAR FROM NON COMBUSTIBLES AND 18" CLEAR FROM COMBUSTIBLES.
F. MECHANICAL DUCTWORK ROUTED BETWEEN JOISTS OR THROUGH JOIST WEBBING TO BE FIELD VERIFIED DURING CONSTRUCTION.

KEYED NOTES

1. 20 FOOT RADIUS SHOWN AROUND GREASE EXHAUST FOR CLEARENCES FROM ANY OUTSIDE AIR INTAKES.
2. SUPPORT REFRIGERANT PIPING ON ROOF WITH STRUT SUPPORT AS MIRO 16 - BASE STRUT - 12 12" MINIMUM ABOVE ROOF.
3. INSTALL CONDENSING UNIT ON STRUCTURAL STEEL (REFER TO STRUCTURAL PLANS) WITH VIBRATION ISOLATION PER SPEC. PROVIDE
4. PROVIDE HOUSING FOR REFRIGERANT PIPE AND CONDUIT THROUG ROOF. SEE DETAIL 7/M502.
5. PIPING ON ROOF / EXPOSED INSULATED WITH FLEXIBLE ELASTOMETRIC AND JACKETED WITH ALUMINUM. REFER TO SPECIFICATIONS.
6. FUTURE EXHAUST FAN NOT IN CONTRACT. EXHAUST FAN SHOWN FOR FUTURE APPROXIMATE LOCATION.
7. OWNER FURNISHED EQUIPMENT BY OTHERS. SHOWN FOR REFERENCE ONLY. PROVIDE MAINTENANCE CLEARENCE AS SHOWN.
8. INSTALL EQUIPMENT AND PIPING TO ALLOW CLEAR WALKING SPACE IN AND OUT OF ROOF HATCH.
9. MOUNT CONDENSING UNIT ON PURCHASED OR FIELD-FABRICATED BASE APPROPRIATE FOR BOTH THE EQUIPMENT AND ROOF ASSEMBLY. SUBMIT PRODUCT INFORMATION OR FABRICATION DRAWINGS FOR REVIEW.
10. REFRIGERANT PIPE PENETRATIONS BY OTHERS. SHOWN FOR REFERENCE ONLY.

Architecture and Interiors

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Project No: M10.19.04

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Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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ROOF MECHANICAL - SOUTH

M303S

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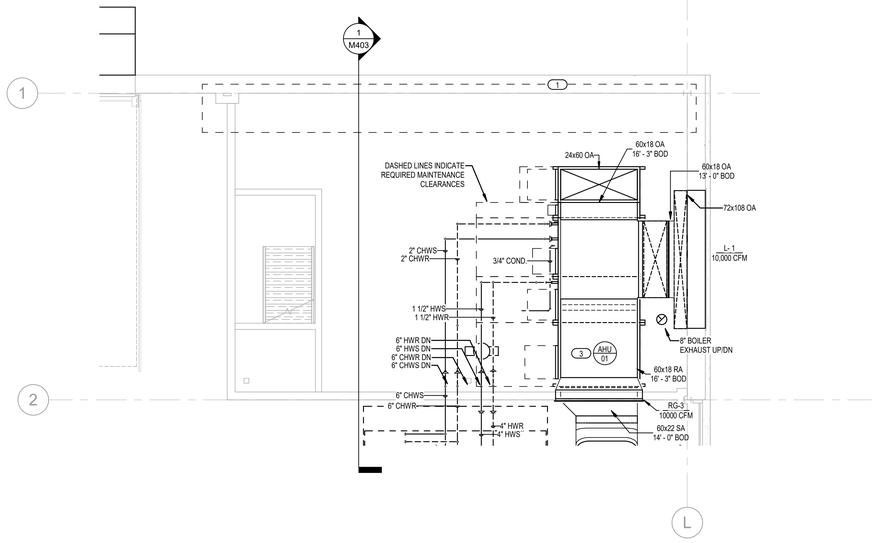
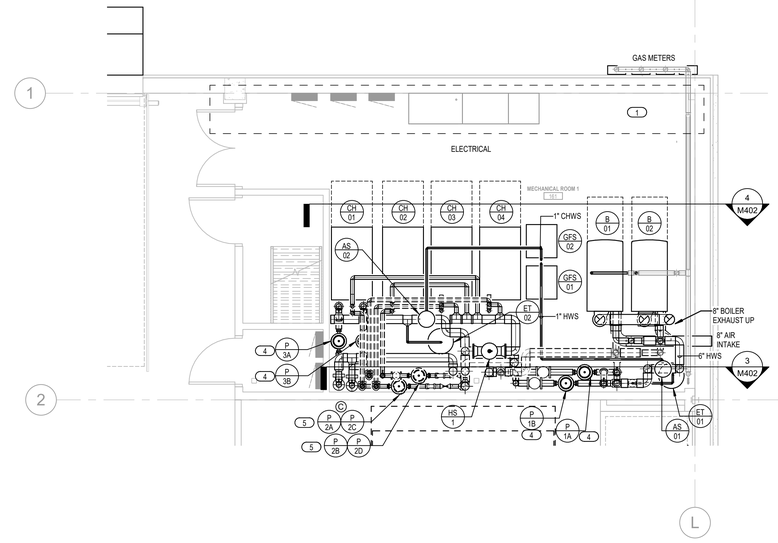


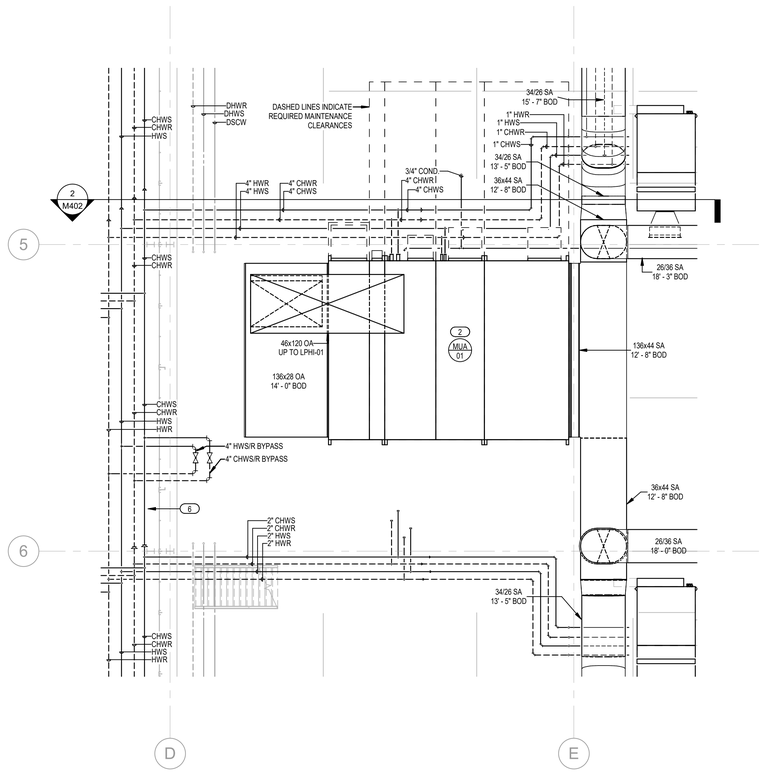
2 ENLARGED SOUTH MECHANICAL ROOM MEZZANINE

1/4" = 1'-0"



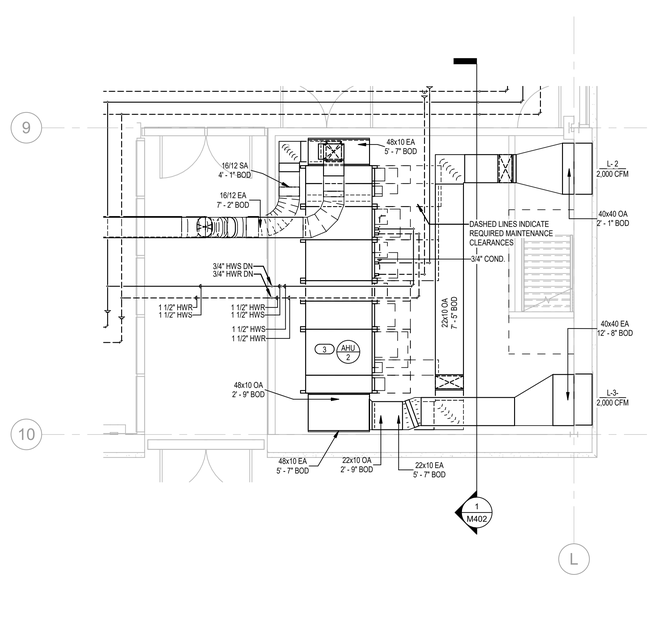
1 ENLARGED SOUTH MECHANICAL ROOM

1/4" = 1'-0"



4 ENLARGED NORTH MECHANICAL MEZZANINE ROOM

1/4" = 1'-0"



3 ENLARGED SOUTH HALL STORAGE MEZZANINE PLAN

1/4" = 1'-0"

KEYED NOTES

1. WATER METER AND PIPING IN THIS APPROXIMATE LOCATION. SEE PLUMBING PLANS.
2. MAKE-UP AIR UNIT INSTALLED ON MEZZANINE PLATFORM. REFER TO COIL DETAIL.
3. AIR HANDLING UNIT INSTALLED ON MEZZANINE PLATFORM. REFER TO COIL DETAIL.
4. PUMPS SHALL BE SLIGHTLY OFFSET TO ALLOW FLOOR MOUNT INSTALLATION. PROVIDE ENOUGH CLEARANCE TO ALLOW PROPER MAINTENANCE.
5. PUMPS SHALL BE SLIGHTLY OFFSET WITH WALL MOUNT INSTALLATION. ALLOW ENOUGH CLEARANCE BETWEEN PUMPS TO ALLOW PROPER MAINTENANCE.
6. CONTRACTOR SHALL INSTALL HWS/R AND CHWS/R SYSTEM DP SENSOR IN THIS APPROXIMATE LOCATION. REFER TO CONTROL SCHEMATICS.

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Project No: M10.19.04

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Engineer Seal

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PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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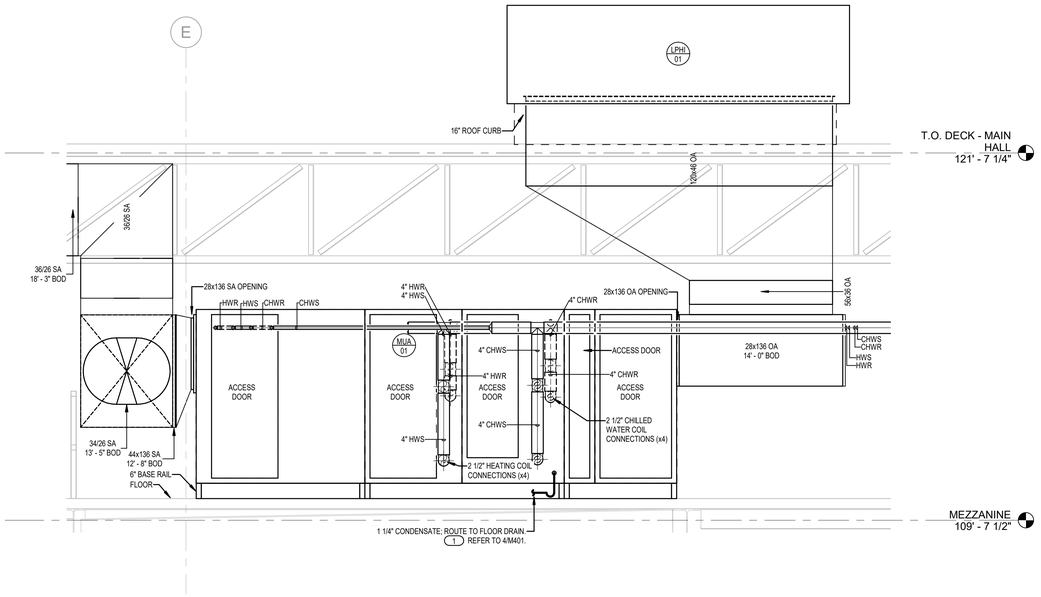
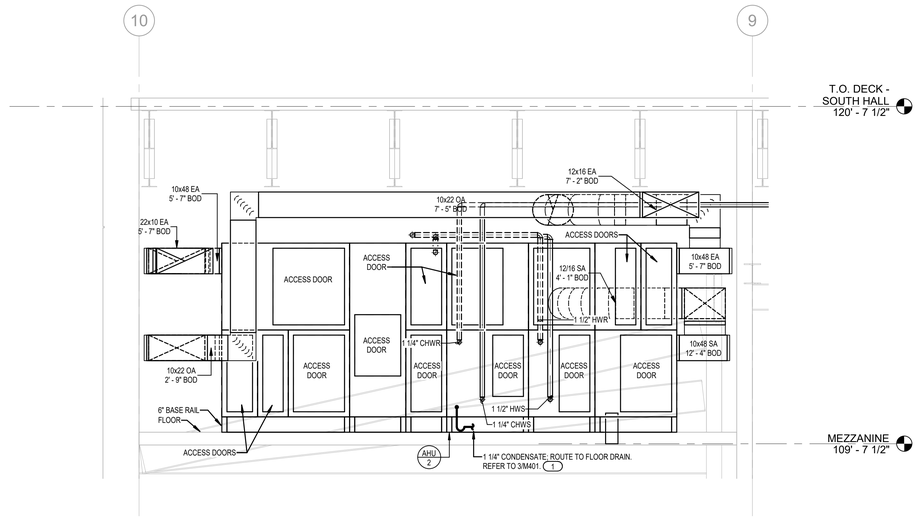
ENLARGED
MECHANICAL PLANS

M401



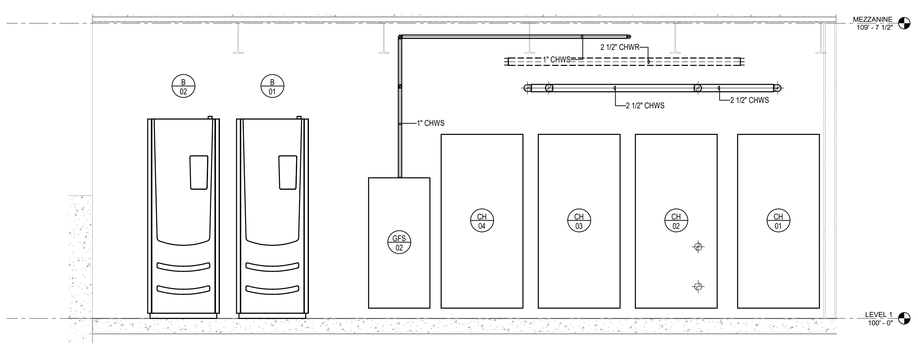
2 MUA-01 SECTION VIEW (EXTERNAL COMPONENTS)

1/2" = 1'-0"



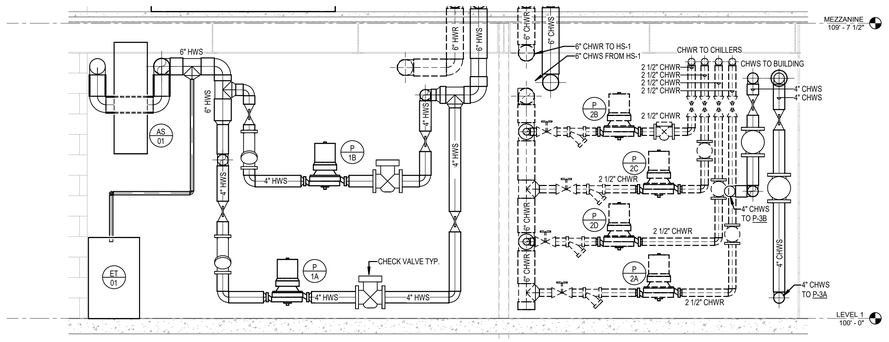
1 AHU-02 SECTION VIEW (EXTERNAL COMPONENTS)

1/2" = 1'-0"



4 SOUTH MECHANICAL ROOM BOILERS / CHILLERS

1/2" = 1'-0"



3 SOUTH MECHANICAL ROOM PUMPS

1/2" = 1'-0"

KEYED NOTES	
1	CONDENSATE SHALL BE ROBUSTLY SUPPORTED AND PROPERLY PITCHED. INSTALL SHALL BE ROUTED NOT BE A TRIP HAZARD.

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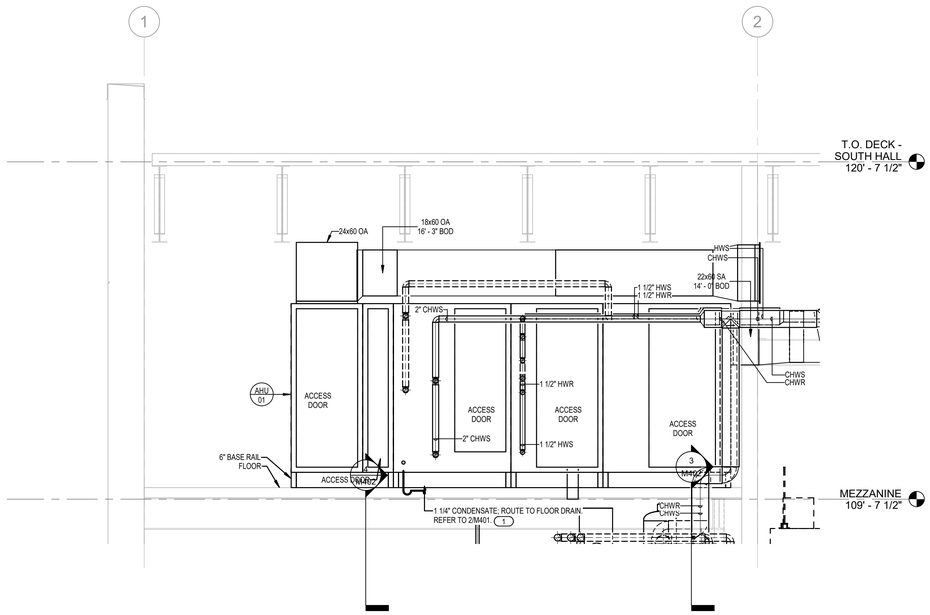
MECHANICAL SECTIONS

M402



1 AHU-01 SECTION VIEW (EXTERNAL COMPONENTS)

1/2" = 1'-0"

KEYED NOTES

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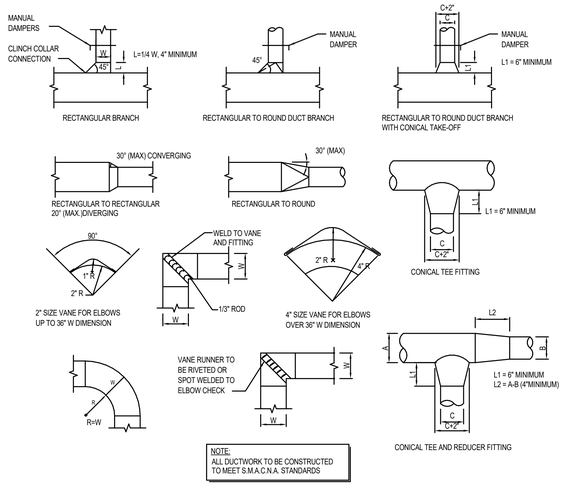
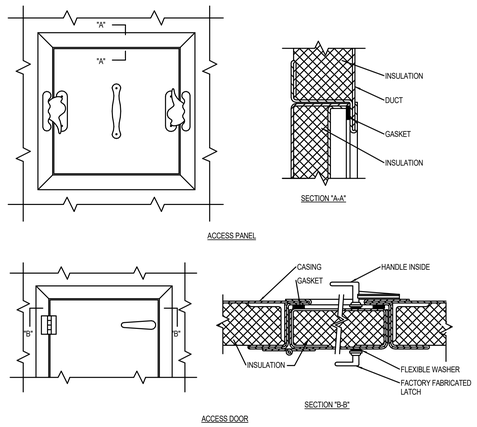
MECHANICAL
SECTIONS

M403



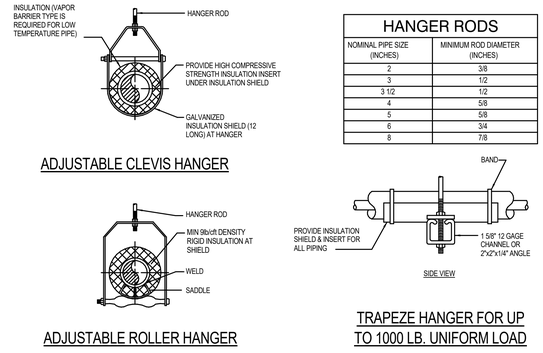
NOTE:
ALL DUCTWORK TO BE CONSTRUCTED TO MEET S.M.A.C.N.A. STANDARDS

3 TYPICAL DUCTWORK DETAILS
NOT TO SCALE



NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-15.

2 ACCESS PANEL AND DOOR DETAIL
NOT TO SCALE



HANGER RODS	
NOMINAL PIPE SIZE (INCHES)	MINIMUM ROD DIAMETER (INCHES)
2	3/8
3	1/2
3 1/2	1/2
4	5/8
5	5/8
6	3/4
8	7/8

TYPICAL PIPE HANGERS

MAXIMUM PIPE/TUBING SUPPORT SPACING (FEET)										
NOM. SIZE	THRU 3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
PIPE	6'-6"	6-6	6-6	10	10	10	10	10	10	10
COPPER	5'-0"	5	5	8	8	8	8	8	8	8
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.										

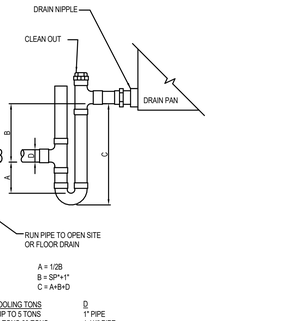
1 TYPICAL PIPE HANGER DETAILS
NOT TO SCALE

NOTE:
1. BRANCH PIPES SHALL TAKE OFF FROM THE BOTTOM OF THE MAINS.
2. DRAIN VALVE SHALL BE AT LOWEST POINT. A MANUFACTURER - PROVIDED DRAIN, INTEGRAL TO COIL, IS ACCEPTABLE IF IT ALLOWS FOR COIL DRAIN.
3. MANUAL AIR VENT MAY BE OMITTED ONLY IF THE COIL IS PROVIDED WITH ONE, INTEGRAL, AT HIGH POINT OF COIL.
4. VERIFY COIL CONNECTIONS (IN / OUT) WITH MANUFACTURER

AIR HANDLING UNIT COOLING COIL - TWO-WAY, PRESSURE-INDEPENDENT
NOT TO SCALE

NOTES:
1. PUMP MOUNTED ON VERTICAL PLANE SHALL HAVE SPECIAL BEARINGS TO CARRY THE WEIGHT OF THE MOTOR.
2. SUPPORTS CAN BE WALL, CEILING OR FLOOR MOUNTED. WALL MOUNT SHOWN.
3. TRIPLE DUTY VALVES WILL NOT BE APPROVED ON PUMPS CONTROLLED BY VFD.

INLINE PUMP DETAIL
NOT TO SCALE

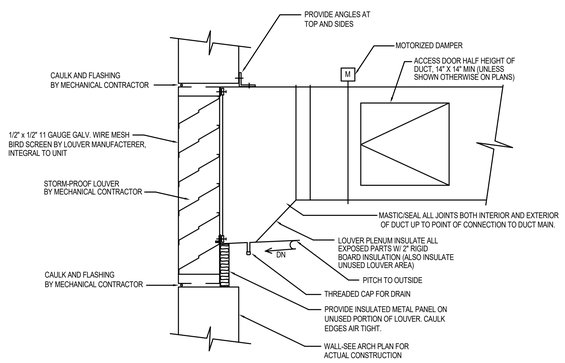


A = 1/2B
B = SP"+1"
C = A+B+D

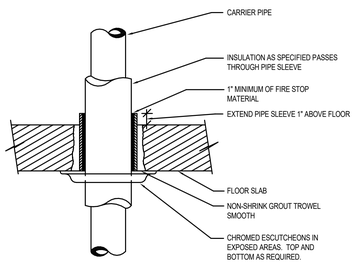
COOLING TONS	D
- UP TO 5 TONS	1" PIPE
- 5 TONS-30 TONS	1 1/4" PIPE
- 30 TONS-50 TONS	1 1/2" PIPE
- 50 TONS-UP	2" PIPE

NOTE:
* SP EQUALS ABSOLUTE VALUE OF NEGATIVE STATIC PRESSURE AT FAN SUCTION FOR DRAW THROUGH AIR HANDLING UNIT.

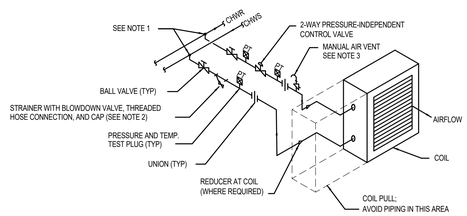
4 NEGATIVE PRESSURE CONDENSATE DRAIN DETAIL
NOT TO SCALE



9 DUCT CONNECTION TO LOUVER
NOT TO SCALE



8 PIPE FLOOR SLAB PENETRATION DETAIL
NOT TO SCALE



NOTE:
1. BRANCH PIPES SHALL TAKE OFF FROM THE BOTTOM OF THE MAINS.
2. STRAINER / DRAIN VALVE SHALL BE AT LOWEST POINT. IF FIELD CONDITIONS DO NOT ALLOW, PROVIDE ADDITIONAL DRAIN VALVE AT LOW POINT TO FACILITATE DRAINING SYSTEM. A MANUFACTURER - PROVIDED DRAIN, INTEGRAL TO COIL, IS ACCEPTABLE IF IT ALLOWS FOR COIL DRAIN.
3. MANUAL AIR VENT MAY BE OMITTED ONLY IF THE COIL IS PROVIDED WITH ONE, INTEGRAL, AT HIGH POINT OF COIL.
4. VERIFY COIL CONNECTIONS (IN / OUT) WITH MANUFACTURER
5. APPLIES TO FAN COILS, UNIT HEATERS, AND TERMINAL RE-HEAT COILS (E.G. VAV BOX COILS)

TERMINAL UNIT COOLING COIL - TWO-WAY, PRESSURE-INDEPENDENT
NOT TO SCALE

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Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO
IL
PROFESSIONAL ENGINEER

Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

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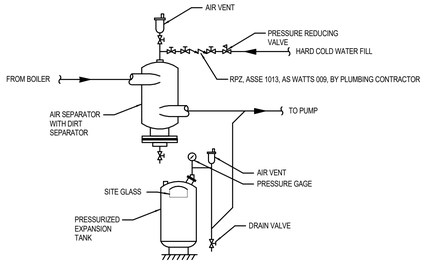
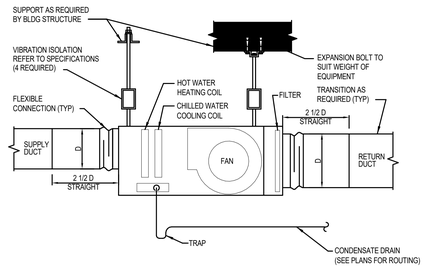
MECHANICAL DETAILS

M501

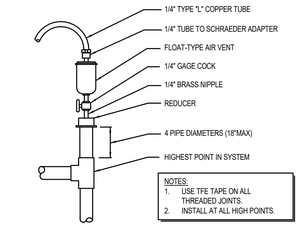


3 EXPANSION TANK/AIR SEPARATOR ASSEMBLY
NOT TO SCALE



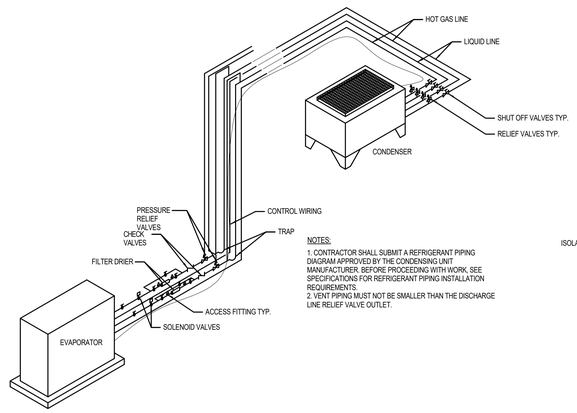
NOTES:
1. PROVIDE W/ CONDENSATE DRAIN PAN WATER LEVEL SENSOR TO AUTOMATICALLY SHUT OFF UNIT IF THE PRIMARY CONDENSATE DRAIN IS RESTRICTED. SENSOR SHALL DEACTIVATE FCU AND RAISE AN ALARM UPON DETECTION OF MOISTURE. SENSOR TO BE UL508 LISTED.
2. PROVIDE CONDENSATE DRAIN PUMP WHERE REQUIRED.

2 FAN COIL UNIT DETAIL - BLOW THRU
NOT TO SCALE



NOTES:
1. USE TFE TAPE ON ALL THREADED JOINTS.
2. INSTALL AT ALL HIGH POINTS.

1 AUTOMATIC AIR VENT ASSEMBLY DETAIL
NOT TO SCALE

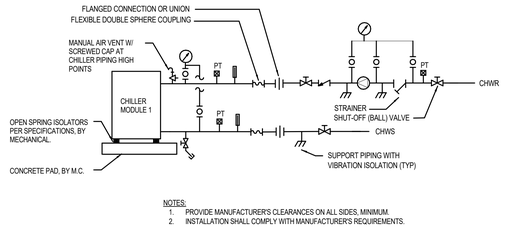


NOTES:
1. CONTRACTOR SHALL SUBMIT A REFRIGERANT PIPING DIAGRAM APPROVED BY THE CONDENSING UNIT MANUFACTURER, BEFORE PROCEEDING WITH WORK, SEE SPECIFICATIONS FOR REFRIGERANT PIPING INSTALLATION REQUIREMENTS.
2. VENT PIPING MUST NOT BE SMALLER THAN THE DISCHARGE LINE RELIEF VALVE OUTLET.

6 REFRIGERANT PIPING DIAGRAM
NOT TO SCALE

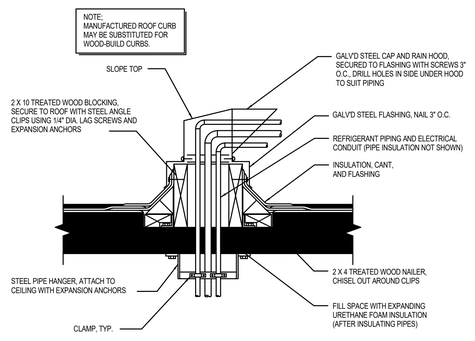
NOTES:
1. PROVIDE MANUFACTURER'S CLEARANCES ON ALL SIDES, MINIMUM.
2. CONNECT TO BOILER CONDENSATE DRAIN LINE AND PROVIDE IN-LINE CONDENSATE NEUTRALIZATION KIT. ROUTE TO NEAREST FLOOR DRAIN.
3. NATURAL GAS CONNECTION, PER DETAIL.
4. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS.

5 BOILER DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE MANUFACTURER'S CLEARANCES ON ALL SIDES, MINIMUM.
2. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS.

4 MODULAR SPLIT AIR COOLED CHILLER
NOT TO SCALE



PIPE & CONDUIT ROOF PENETRATION DETAIL
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Project No: M10.19.04

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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MECHANICAL DETAILS

M502

AIR HANDLING UNIT SCHEDULE

				SUPPLY FAN							RETURN FAN								FILTER SECTION(S)			COOLING COIL														HEATING COIL											
								DIRECT DRIVE MOTOR						DIRECT DRIVE MOTOR								ENTERING AIR		LEAVING AIR																							
TAG	LOCATION	SERVICE	OA (CFM)	SUPPLY (CFM)	ESP IN. W.G.	FAN TYPE	NO. OF FANS	FAN RPM	HP	RPM	V/PH/HZ	RETURN (CFM)	ESP IN. W.C.	TYPE	NO. OF FANS	FAN RPM	HP	RPM	V/PH/HZ	RETURN AIR FILTER	OUTDOOR AIR PRE-FILTER	OUTDOOR AIR FINAL FILTER	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EWT (°F)	LWT (°F)	NO. OF COILS	FACE VEL (FPM)	AIR PRESSURE DROP (IN. W.C.)	FLUID FLOW (GPM)	WATER PRESS. DROP (FT. W.C.)	FLUID TYPE	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	MBH	NO. OF COILS	MAX FACE VEL (FPM)	AIR PRESSURE DROP (IN. W.C.)	FLUID FLOW (GPM)	WATER PRESS. DROP (FT. W.C.)	FLUID TYPE	BASERAIL HEIGHT (IN.)	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
AHU-1	SOUTH HALL; MEZZ	SOUTH HALL VENTILATION	2,350	10,000	1.5	PLENUM	1	1770	15	1750	460/3/60	NO RETURN FAN								N.A	N.A.	MERV 13	77	64	53	53	325	260	44	60	2	523	1.9	42	8.3	30% P.G.	52	91	140	99	430	2	523	0.29	22	12.6	30% P.G.	6	3800	DAIKIN	CAH021	1,2,3,4,5,6,7,8
AHU-2	SOUTH HALL; MEZZ	GENERAL EXHAUST MAKE-UP AND ERU	2,100	2,100	2.0	PLENUM	1	3050	3	1750	460/3/60	2100	2	PLENUM	1	2880	3	1750	460/3/60	MERV 13	N.A.	MERV 13	78	66	54	54	74	54	42	60	1	320	0.5	9	4.3	30% P.G.	-15	100	140	100	264	1	323	0.18	14	4.2	30% P.G.	6	3940	DAIKIN	CAH007	ALL NOTES APPLY

NOTES:
1. UNIT SHALL BE INSTALLED ON DECK OF ENCLOSURE BELOW; NO HOUSEKEEPING PAD SHALL BE PROVIDED; BASERAIL FROM FACTORY SHALL BE OF HEIGHT SUFFICIENT FOR CONDENSATE TRAP
2. PROVIDE CONDENSATE TRAP, PER DETAIL, AND ROUTE TO DISPOSAL POINT PER PLAN
3. UNIT SHALL BE CONTROLLED BY BUILDING AUTOMATION SYSTEM; REFER TO CONTROLS SCHEMATICS
4. EACH FAN PROVIDED WITH VFD / DISCONNECT, FROM FACTORY; ALL WIRING BY ELECTRICAL
5. EACH FAN PROVIDED WITH FACTORY SHAFT-GROUNDING KIT
6. FACTORY DRAIN PAN SHALL BE ASHRAE COMPLIANT
7. COILS SHALL BE FULLY DRAINABLE; REFER TO DETAIL
8. INSTALL PIPING AND DUCTWORK IN AREA OF UNIT TO ALLOW FOR MAINTENANCE ACCESS: COIL PULLS, FILTER PULLS, MOTOR REMOVAL, AND ENTHALPY WHEEL REMOVAL SHALL ALL BE ACCCOMPLISHED WITHOUT DISCONNECTING OF PIPING OR DUCTWORK
9. UNIT INCLUDES INTEGRAL ENTHALPY WHEEL, ERW-1; REFER TO SEPARATE SCHEDULE
10. UNIT COILS ARE SIZED AS: COOLING COIL ASSUMES ENERGY RECOVERY IS ACTIVE; HEATING COIL ASSUMES ENERGY RECOVERY IS NOT ACTIVE / FAILED

CABINET HEATER SCHEDULE - HOT WATER

			HOT WATER HEATING COIL								FAN			ELECTRICAL		DIMENSIONS					
															DISCONNECT						
TAG	LOCATION	TYPE	MBH	EAT (°F)	LAT (°F)	FLUID	GPM	EWT (°F)	LWT (°F)	MAX. W.P.D. (FT. HD)	CFM	QUANTITY	HP	V/PH/HZ	BY	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	MANUFACTURER	MODEL	NOTES
CUH-1	VESTIBULE 100	RECESSED FAN COIL	25	60	115	30% P.G.	1.8	140	110	1.5	400	2	FRACTION	120/1/60	MFGR	24	30+	10	DAIKIN	FHVH104	ALL NOTES APPLY
CUH-2	VESTIBULE 108	RECESSED FAN COIL	25	60	115	30% P.G.	1.8	140	110	1.5	400	2	FRACTION	120/1/60	MFGR	24	30+	10	DAIKIN	FHVH104	ALL NOTES APPLY
CUH-3	VESTIBULE 137	RECESSED FAN COIL	25	60	115	30% P.G.	1.8	140	110	1.5	400	2	FRACTION	120/1/60	MFGR	24	30+	10	DAIKIN	FHVH104	ALL NOTES APPLY
CUH-4	LOADING 152	RECESSED FAN COIL	25	60	115	30% P.G.	1.8	140	110	1.5	400	2	FRACTION	120/1/60	MFGR	24	30+	10	DAIKIN	FHVH104	ALL NOTES APPLY
CUH-5	VESTIBULE 164	RECESSED FAN COIL	25	60	115	30% P.G.	1.8	140	110	1.5	400	2	FRACTION	120/1/60	MFGR	24	30+	10	DAIKIN	FHVH104	ALL NOTES APPLY

NOTES:
1. PROVIDE MANUFACTURER FACE-COVER FOR RECESSED UNIT
2. WIDTH DIMENSION DOES NOT INCLUDE ELECTRICAL CONTROL BOX AND DRAIN PAN, WHICH REQUIRE ADDITIONAL SPACE
3. PROVIDE WITH MANUFACTURER DISCONNECT; ALL WIRING BY ELECTRICAL
4. UNIT IS CONTROLLED VIA BUILDING AUTOMATION SYSTEM; REFER TO SCHEMATICS
5. E.C. MOTOR

SPLIT AIR-COOLED CHILLER

				EVAPORATOR SECTION								ELECTRICAL		CONDENSER SECTION				ELECTRICAL		
TAG	SYSTEM COMBINED EFFICIENCY (EER / KW/TON)	REFRIGERANT	FLUID	CAPACITY (TONS)	E.W.T. (F)	L.W.T. (F)	DESIGN FLOW (GPM)	PRESSURE LOSS (F.O.H.)	WEIGHT (LB)	MANUFACTURER	MODEL	MCA (AMPS)	V/PH/HZ	AMBIENT (F)	WEIGHT (LB)	MANUFACTURER	MODEL	MCA (AMPS)	V/PH/HZ	NOTES
CH-1 / CU-1	9.2 / 1.3	R-410A	30% P.G.	44.5	58	44	82	6.5	1400	CARRIER	30MPA050	92	460/3/60	95	1300	CARRIER	09DPM050	15	460/3/60	ALL NOTES APPLY
CH-2 / CU-2	9.2 / 1.3	R-410A	30% P.G.	44.5	58	44	82	6.5	1400	CARRIER	30MPA050	92	460/3/60	95	1300	CARRIER	09DPM050	15	460/3/60	ALL NOTES APPLY
CH-3 / CU-3	9.2 / 1.3	R-410A	30% P.G.	44.5	58	44	82	6.5	1400	CARRIER	30MPA050	92	460/3/60	95	1300	CARRIER	09DPM050	15	460/3/60	ALL NOTES APPLY
CH-4 / CU-4	9.2 / 1.3	R-410A	30% P.G.	44.5	58	44	82	6.5	1400	CARRIER	30MPA050	92	460/3/60	95	1300	CARRIER	09DPM050	15	460/3/60	ALL NOTES APPLY

NOTES:
1. INSTALL EVAPORATOR SECTION, INTERIOR, ON HOUSEKEEPING PAD; PAD BY MECHANICAL CONTRACTOR, REFER TO SPECIFICATIONS
2. EVAPORATOR SECTION INCLUDES FACTORY NON-FUSED DISCONNECT; WIRING BY ELECTRICAL
3. CONDENSER SECTION INCLUDES FACTORY NON-FUSED DISCONNECT; WIRING BY ELECTRICAL; ELECTRICAL SHALL PROVIDE CONVENIENCE OUTLET
4. PROVIDE WITH FACTORY MULTI-UNIT CONTROLLER; UNITS SHALL BE CONTROLLED THROUGH BUILDING AUTOMATION SYSTEM; REFER ALSO TO CONTROLS SCHEMATICS
5. PROVIDE WITH FACTORY OPTIONS FOR NOISE REDUCTION: SOUND ENCLOSURE PANELS AND BAG/COMPRESSOR INSULATION
6. CONDENSING AND EVEPORATOR SECTIONS ARE A MATCHED SET AND SHALL BE PROVIDED BY THE SAME MANUFACTURER
7. EXTERIOR CONDENSER SECTION INSTALLED ON STRUCTURAL RAIL SYSTEM (REFER TO STRUCTURAL DRAWINGS); CONTRACTOR SHALL PROVIDE OPEN-SPRING VIBRATION ISOLATION
8.

CONDENSING HOT WATER BOILER SCHEDULE

												ELECTRICAL								
													DISCONNECT							
TAG	LOCATION	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (BTUH)	AHRI EFFIENCY (%)	EWT (°F)	LWT (°F)	FLUID FLOW (GPM)	WATER PRESSURE DROP (FT)	FLUID TYPE	FUEL	TURNDOWN RATIO	V/PH/HZ	BY	GAS CONN. (IN.)	WATER CONN. (IN.)	INTAKE SIZE (IN.)	VENT SIZE (IN.)	MANUFACTURER	MODEL	NOTES
B-1	MECHANICAL ROOM 150	3,000	2,805	93.5	100	140	155	3.5	30% P.G.	NATURAL GAS	20:1	120/1/60	E.C.	2	4	6	6	AERCO	BMK 3000	ALL NOTES APPLY
B-2	MECHANICAL ROOM 150	3,000	2,805	93.5	100	140	155	3.5	30% P.G.	NATURAL GAS	20:1	120/1/60	E.C.	2	4	6	6	AERCO	BMK 3000	ALL NOTES APPLY

NOTES:
1. REFER TO DETAIL
2. PROVIDE UNIT WITH PRESSURE RELIEF VALVE.
3. UNIT SHALL BE FURNISHED WITH CONDENSATE NEUTRALIZER KIT. SIZE AND NEUTRALIZER MATERIAL SHALL BE DETERMINED BY BOILER MANUFACTURER. ROUTE TO FLOOR SINK VIA NON-REACTIVE MATERIAL PIPE
4. PROVIDE CONCREETE PAD FOR BOILERS; REFER TO SPECIFICATIONS
5. REFER TO SPECIFICATIONS FOR FLUE GAS AND COMBUSTION DUCT MATERIALS; ROUTE AS SHOWN ON PLAN
6. BOILER SHALL BE CONTROLLED VIA B.A.S. REFER ALSO TO CONTROLS SCHEMATICS/SEQUENCES
7. BOILER SHALL BE PROVIDED WITH BOILER SEQUENCING CONTROL MODULE; B.C.M. SHALL CONTROL BOILERS, TOGETHER, FOR STAGING AND EFFICIENCY; B.C.M. SHALL INTERLOCK WITH DEDICATED BOILER CONTROL VALVES

EXHAUST FAN SCHEDULE

		FAN DATA						DIRECT DRIVE MOTOR					
										DISCONNECT			
TAG	AREA SERVED	TYPE	CFM	STATIC PRESSURE (IN. WC.)	MOTORIZED DAMPER	ROOF OPENING (IN x IN)	CURB TYPE	V/PH/HZ	HP	BY	WEIGHT	MANUFACTURER	MODEL	NOTES
EF-1	KH-06 + 1500 CFM FUTURE 8' HOOD	UPBLAST GREASE	3,700	2	NO	20.5 x 20.5	INSULATED, 16" VENTED	208/60/3	3	MFGR	135	GREENHECK	CUE-180HP-A-VGD	1, 2, 3, 4
EF-2	KH-07 + 1500 CFM FUTURE 8' HOOD	UPBLAST GREASE	6,600	2	NO	32.5 x 32.5	INSULATED, 16" VENTED	460/60/3	7.5	MFGR	311	GREENHECK	CUE-300HP-B-VGD	1, 2, 3, 4
EF-3	KH-01,02,03,04 + 1500 CFM FUTURE 8' HOOD	UPBLAST GREASE	6,000	2	NO	26.5 x 26.5	INSULATED, 16" VENTED	208/60/3	5	MFGR	240	GREENHECK	CUE-240-VGD	1, 2, 3, 4
EF-4	TEACHING KITCHEN	UPBLAST GREASE	7,400	2	NO	32.5 x 32.5	INSULATED, 16" VENTED	460/60/3	7.5	MFGR	448	GREENHECK	CUE-300HP-B-VGD	1, 2, 3, 4
EF-5	KH-05 (SOLID FUEL HOOD) + 1500 CFM FUTURE 8' HOOD	UPBLAST GREASE	2,400	1.5	NO	18.5 x 18.5	INSULATED, 16" VENTED	208/60/1	2	MFGR	86	GREENHECK	CUE-160-VG	1, 2, 3, 4
EF-6	DISHWASHER	UPBLAST	800	1	YES	14.5 x 14.5	INSULATED, 16"	115/60/1	1/3	MFGR	46	GREENHECK	CUE-100-A	1, 2, 5

NOTES:
1. PROVIDE FACTORY CURB, INSULATED, TO MATCH FAN
2. FANS ARE CONTROLLED BY LOCAL SWITCH, WITH INTERCONNECTION INTO BUILDING AUTOMATION SYSTEM; REFER ALSO TO CONTROLS SCHEMATICS
3. EXHAUST FANS VARY SPEED VIA VARIABLE FLOW KITCHEN HOOD CONTROL SYSTEM; CONTROLS CONTRACTOR SHALL PROVIDE COMMUNICATION FOR CONTROL
4. ASSOCIATED DUCTWORK IS GREASE-LADEN, AND SHALL COMPLY WITH NECESSARY SPECIFICATIONS AND CODE
5. ASSOCIATED DUCTWORK IS MOISTURE-LADEN AND SHALL BE CONSTRUCTED OF ALUMINUM

AIR/DIRT SEPARATOR SCHEDULE

TAG	LOCATION	SYSTEM	TYPE	STRAINER	GPM	MAX. PRESSURE DROP (FT. HD)	SIZE (IN.)	DRY WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
AS-1	MECHANICAL ROOM 150	HOT WATER HEATING	COALESCING	NO	300	0.5	5"	325	SPIROTHERM	VDN 500	ALL NOTES APPLY
AS-2	MECHANICAL ROOM 150	CHILLED WATER	COALESCING	NO	260	0.5	5"	325	SPIROTHERM	VDN 500	ALL NOTES APPLY

NOTES:
1. REFER TO DETAIL
2. PROVIDE REMOVABLE HEAD STYLE UNIT
3. PROVIDE TRANSITION IN PIPE SIZE FROM MAIN WITH AT LEAST 12" STRAIGHT RUN OF FINAL PIPE SIZE PRIOR TO CONNECTION (IF INLET DIFFERS FROM MAIN)

EXPANSION TANK SCHEDULE

			SIZE		CAPACITY				SYSTEM OPERATING RANGE (GAUGE PSI)		SYSTEM TEMPERATURE RANGE (°F)				
TAG	SYSTEM	TYPE	HEIGHT (IN.)	DIAMETER (IN.)	ACCEPT. VOLUME (GAL)	MIN. TANK VOLUME (GAL)	SYSTEM WATER VOLUME (GAL)	FLUID TYPE	MIN	MAX	MIN	MAX	MANUFACTURER	MODEL	NOTES
ET-1	HOT WATER HEATING	VERTICAL; BLADDER	70	25	55	110	1,100	30% P.G.	15	50	65	160	BELL AND GOSSETT	B-400LA	ALL NOTES APPLY
ET-2	CHILLED WATER	VERTICAL; BLADDER	85	25	55	135	2,100	30% P.G.	15	50	40	85	BELL AND GOSSETT	B-500LA	ALL NOTES APPLY

NOTES:
1. INSTALL ON CONCRETE PAD; PAD BY MECHANICAL CONTRACTOR; REFER TO SPECIFICIATIONS
2. ASME RATED
3. REFER TO DETAIL
4. INCLUDE OPTIONAL SIGHT GLASS

MINI-SPLIT A/C UNIT SCHEDULE

							ELECTRICAL			
TAG	SERVES	COOLING CAPACITY (BTU/HR)	MINIMUM SEER	REFRIGERANT TYPE	EVAPORATOR MODEL NUMBER	CONDENSER MODEL NUMBER	V/PH/HZ	MANUFACTURER	NOTES
EVAP-1 / CU-1	IT / DATA ROOM	12,000	20.8	R-410A	PKA-A12HA7	PUY-A12NKA7	208/1/60	MITSUBISHI	ALL NOTES APPLY

NOTES:
1. SEPARATE DISCONNECTS SHALL BE PROVIDED BY THE E.C..
2. PROVIDE UNIT WITH FACTORY WALL-MOUNTED TEMPERATURE CONTROLLER; CONNECTED TO B.A.S. FOR MONITORING
3. PROVIDE WIND BAFFLE KIT FOR LOW-AMBIENT OPERATION DOWN TO -20°F.
4. PROVIDE DRAIN PAN LEVEL SENSOR/CONTROL (SENSOR/CONTROL SHALL MEET IMC ALTERNATIVE TO SECONDARY DRAIN PAN REQUIREMENTS).

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

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WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

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MECHANICAL SCHEDULES

M601

FAN COIL UNIT SCHEDULE - HYDRONIC

TAG	SERVES	SA (CFM)	OA (CFM)	EXT. S.P. (IN. W.C.)	COOLING COIL											HEATING COIL								MOTOR	ELECTRICAL		SOUND DATA - UNIT DISCHARGE (dB)								MANUFACTURER	MODEL	NOTES
					EWT (°F)	LWT (°F)	EADB (°F)	EAWB (°F)	LADB (°F)	LAWB (°F)	TOTAL MBH	SENSIBLE MBH	GPM	W.P.D. (FT. HD)	FLUID	EWT (°F)	LWT (°F)	EADB (°F)	LADB (°F)	TOTAL MBH	GPM	W.P.D. (FT. HD)	FLUID	HP	V/PH/HZ	DISCONNECT BY	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
FCU-1	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-2	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-3	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-4	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-5	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-6	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-7	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-8	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-9	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-10	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-11	MAIN HALL	1,000	0	0.5	44	55	75	62	56	55	22.0	21	3.3	4.6	30% P.G.	140	115	68	100	36.0	3.3	5.7	30% P.G.	3/4	120/1/60	MFGR	76	77	68	64	65	57	54	47	DAIKIN	BCHD0161	1,2,3,4,5,6,7,8,9
FCU-12	VENDOR GROUP 10	1,000	0	0.2	44	52	75	62	57	55	21.0	20	5.7	17.0	30% P.G.	140	120	68	92	26.5	2.8	12.8	30% P.G.	1/5	120/1/60	MFGR	68	73	64	58	53	49	39	33	DAIKIN	FSGR	1,2,3,4,5,6,7,8,10
FCU-13	VENDOR STORAGE LOCKERS	1,000	0	0.2	44	52	75	62	57	55	21.0	20	5.7	17.0	30% P.G.	140	120	68	92	26.5	2.8	12.8	30% P.G.	1/5	120/1/60	MFGR	68	73	64	58	53	49	39	33	DAIKIN	FSGR	1,2,3,4,5,6,7,8,10
FCU-14	MARKET KITCHEN	1,000	0	0.2	44	52	75	62	57	55	21.0	20	5.7	17.0	30% P.G.	140	120	68	92	26.5	2.8	12.8	30% P.G.	1/5	120/1/60	MFGR	68	73	64	58	53	49	39	33	DAIKIN	FSGR	1,2,3,4,5,6,7,8,10
FCU-15	DIRECTOR'S AND ADMIN OFFICE	1,000	0	0.2	44	52	75	62	57	55	21.0	20	5.7	17.0	30% P.G.	140	120	68	92	26.5	2.8	12.8	30% P.G.	1/5	120/1/60	MFGR	68	73	64	58	53	49	39	33	DAIKIN	FSGR	1,2,3,4,5,6,7,8,10
FCU-16	VENDOR GROUP 10	1,000	0	0.2	44	52	75	62	57	55	21.0	20	5.7	17.0	30% P.G.	140	120	68	92	26.5	2.8	12.8	30% P.G.	1/5	120/1/60	MFGR	68	73	64	58	53	49	39	33	DAIKIN	FSGR	1,2,3,4,5,6,7,8,10

NOTES:
1. FOUR-PIPE FAN COIL / BLOWER COIL UNIT
2. REFER TO COIL DETAIL; REFER TO INSTALL DETAIL
3. PROVIDE WITH FACTORY DISCONNECT
4. PROVIDE WITH FACTORY DRAIN PAN OVERFLOW SWITCH AND AUTOMATIC CUT-OUT
5. UNIT SHALL BE CONTROLLED THROUGH BUILDING AUTOMATION SYSTEM
6. E.C.MOTOR
7. UNIT OVERSIZED AND PROVIDED WITH DISCHARGE PLENUM, FROM FACTORY, FOR NOISE REDUCTION/CONTROL
8. PROVIDE CONDENSATE TRAP AND ROUTE COPPER, INSULATED, CONDENSATE PIPE TO NEAREST POINT
9. PROVIDE UNIT WITH MERV 13 FILTERS
10. PROVIDE UNIT WITH MERV 10 FILTERS

HEAT RECOVERY WHEEL SCHEDULE

TAG	LOCATION	OA (CFM)	EA (CFM)	SUMMER CONDITIONS							WINTER CONDITIONS							TOTAL EFFECTIVENESS (% SUMMER / % WINTER)	MAX FACE VELOCITY (FPM)	MAX PRESS. DROP (IN. W.C.)	ELECTRICAL	MATERIAL	NOTES
				OA TEMP		RA TEMP		TEMPERED AIR		HEAT RECOVERED (MBH)	OA TEMP		RA TEMP		TEMPERED AIR		HEAT RECOVERED (MBH)				V/PH/HZ		
				DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)		DB (°F)	WB (°F)_	DB (°F)	WB (°F)	DB (°F)	WB (°F)							
ERW-1	AHU-2 INTEGRATED	2,000	2,000	87.0	72.0	74.0	62.0	78.0	66.0	46.2	-15.0	-15.0	72.0	60.0	46.0	43.5	184	64.5 / 68.1	750	1.2	120/1/60	4 ANGSTROM SYNTHETIC FIBER	ALL NOTES APPLY

NOTES:
1. WHEEL IS INTEGRAL TO AHU-2
2. VFD SHALL BE PROVIDED BY AHU MANUFACTURER AND WIRED BY ELECTRICAL CONTRACTOR.

BI-POLAR IONIZATION

TAG	SERVES	MAX. CFM	WIDTH OF UNIT / DUCTWORK (IN)	MANUFACTURER	MODEL	NOTES
BP-01	FCU-01	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-02	FCU-02	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-03	FCU-03	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-04	FCU-04	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-05	FCU-05	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-06	FCU-06	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-07	FCU-07	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-08	FCU-08	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-09	FCU-09	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-10	FCU-10	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-11	FCU-11	1,000	37	GLOBAL PLASMA SOLUTIONS	iMOD	1
BP-12	FCU-12	1,000	18	GLOBAL PLASMA SOLUTIONS	DM-48	2
BP-13	FCU-13	1,000	14	GLOBAL PLASMA SOLUTIONS	DM-48	2
BP-14	FCU-14	1,000	12	GLOBAL PLASMA SOLUTIONS	DM-48	2
BP-15	FCU-15	1,000	10	GLOBAL PLASMA SOLUTIONS	DM-48	2
BP-16	FCU-16	1,000	18	GLOBAL PLASMA SOLUTIONS	DM-48	2
BP-17	AHU-1	10,000	64	GLOBAL PLASMA SOLUTIONS	iMOD	1,3
BP-18	AHU-2	2,000	52	GLOBAL PLASMA SOLUTIONS	iMOD	1

NOTES:
1. SHALL BE MOUNTED ON THE LEAVING SIDE OF THE COIL
2. SHALL BE MOUNTED IN THE DUCTWORK DOWNSTREAM OF THE UNIT
3. FOR THIS UNIT, EACH DEVICE SHALL BE DESIGNED FOR 2400 CFM TO ALLOW ADDITIONAL ION DENSITY

KITCHEN HOOD SCHEDULE

TAG	DUTY	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	INSTALLATION HEIGHT (IN)	EXHAUST					STATIC PRESSURE DROP (IN. W.C.)	MANUFACTURER	MODEL	NOTES
						NUM. OF COLLARS	COLLAR SIZE (IN)	SYSTEM	CALCULATED AIRFLOW (CFM)	MIN. AIRFLOW (CFM)				
KH-01	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1468	590	0.33	HALTON	KVE	1
KH-02	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1468	590	0.33	HALTON	KVE	1
KH-03	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1468	590	0.33	HALTON	KVE	1
KH-04	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1468	590	0.33	HALTON	KVE	1
KH-05	SOLID FUEL	96	45	24	80	1	17x12	KITCHEN EXHAUST	2400	960	0.47	HALTON	KVE-CM	1
KH-06	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1840	740	0.33	HALTON	KVE	1
KH-07	HEAVY	96	54	24	80	1	12x10	KITCHEN EXHAUST	1840	740	0.33	HALTON	KVE	1
KH-08	HEAVY	165	60	24	80	2	12x10	KITCHEN EXHAUST	2830	1130	0.29	HALTON	KVM	1,2
KH-09	HEAVY	88	60	24	80	1	12x10	KITCHEN EXHAUST	1170	470	0.26	HALTON	KVM	1,2
KH-10	HEAVY	89	60	24	80	1	16x10	KITCHEN EXHAUST	1540	620	0.39	HALTON	KVM	1,2
KH-11	HEAVY	42	42	24	80	1	8x8	KITCHEN EXHAUST	610	240	0.07	HALTON	CH	1

DO NOT DELETE

NOTES:
1. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED FOR ANY FUTURE USE. NO KNOWN EQUIPMENT AT TIME OF DESIGN.
2. HOOD SHALL BE PROVIDED WITH SUPPLIER SS WALL AND END PANELS

LOUVERED PENTHOUSE SCHEDULE

TAG	LOCATION	SERVES	CFM	MAX. FACE VELOCITY (FPM)	PRESS. DROP (IN. W.C.)	THROAT SIZE (W x L) (IN.)	HOOD SIZE (W x L) (IN.)	FREE AREA (SF)	MAX. HEIGHT (TOP OF CURB TO TOP OF EQUIPMENT)	TYPE	DAMPER TYPE	CURB HEIGHT (IN)	CONSTRUCTION	MANUFACTURER	MODEL	NOTES
LPHI-1	ROOF	MUA-1, FUTURE MUA-2	30,000	600	0.1	46x120	60x134	38	58"	LOUVERED PENTHOUSE	MOTORIZED	16	ALUMINUM	GREENHECK	WIH	ALL NOTES APPLY

NOTES:
1. PROVIDE BIRD SCREEN, FROM FACTORY.'
2. MOTORIZED DAMPER BY CONTROLS CONTRACTOR; REFER TO CONTROLS SCHEMATICS.
3. UNIT SIZED FOR FUTURE, ADDED, MAKE-UP AIR UNIT.
4. COLOR BY ARCHITECT.
5. FACTORY INSULATED CURB TO BE FURNISHED WITH UNIT.

HYDRAULIC SEPARATOR SCHEDULE

TAG	LOCATION	SYSTEM	TYPE	GPM	ENTERING VELOCITY (FT/S)	MAX. PRESSURE DROP AT DESIGN FLOW (FT. HD)	CONNECTION SIZE (IN.)	MANUFACTURER	MODEL	NOTES
HS-1	MECHANICAL ROOM 161	CHILLED WATER	COALESCING	400	4.4	1	6"	SPIROTHERM	VDX 600FA	ALL NOTES APPLY

NOTES:
1. REFER TO DETAIL
2. PROVIDE REMOVABLE HEAD STYLE UNIT, ALLOW SPACE FOR REMOVAL
3. PROVIDE PIPE REDUCER AS NECCESARY; REFER TO PLAN FOR PIPE SIZING AT LOCATION OF SEPARATOR.

CIRCULATION / DESTRATIFICATION FAN SCHEDULE

TAG	AREA SERVED	FAN DIAMETER (FEET)	MAX SPEED (RPM)	ELECTRICAL		WEIGHT	MANUFACTURER	MODEL	NOTES
				V/PH/HZ	HP				
CF-1	MAIN HALL	10	107	120/1/60	2	81	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-2	MAIN HALL	10	107	120/1/60	2	81	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-3	MAIN HALL	10	107	120/1/60	2	81	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-4	MAIN HALL	8	158	120/1/60	FRACT	75	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-5	MAIN HALL	8	158	120/1/60	FRACT	75	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-6	MAIN HALL	8	158	120/1/60	FRACT	75	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-7	MAIN HALL	8	158	120/1/60	FRACT	75	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-8	MAIN HALL	8	158	120/1/60	FRACT	75	BIG ASS FANS	ESSENCE	ALL NOTES APPLY
CF-9	SOUTH HALL	18	88	460/3/60	2	281	BIG ASS FANS	PFX-3-18	ALL NOTES APPLY

NOTES:
1. COLOR SELECTION BY ARCHITECT
2. NOMINAL MOUNTING ROD LENGTH –57 INCHES; EXTENSION ROD REQUIRED; BLADE TIPS SHALL MAINTAIN 24" FROM BOTTOM OF JOISTS
3. PROVIDE MANUFACTURER CONTROLS; CONTROL PANELS SHALL BE INSTALLED IN OFFICE AREA; SEE PLANS
4. NO OBSTRUCTIONS WITHIN 24" IN ANY DIRECTION ALLOWED
5. UNITS SHALL NOT BE CONNECTED TO THE BUILDING AUTOMATION SYSTEM
6. DISCONNECT AND ALL WIRING BY ELECTRICAL

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Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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MECHANICAL SCHEDULES

M602

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MAKE-UP AIR UNIT SCHEDULE

TAG	LOCATION	SERVICE	OA (CFM)	SUPPLY FAN: SUPPLY (CFM)	SUPPLY FAN: ESP IN. W.G.	SUPPLY FAN: FAN TYPE	SUPPLY FAN: NO. OF FANS	SUPPLY FAN: FAN RPM	SUPPLY FAN: MOTOR HP	SUPPLY FAN: MOTOR RPM	SUPPLY FAN: MOTOR V/PH/HZ	FILTER SECTION(S): OUTDOOR AIR PRE-FILTER	FILTER SECTION(S): OUTDOOR AIR FINAL FILTER	COOLING COIL: ENTERING AIR DB (°F)	COOLING COIL: ENTERING AIR WB (°F)	COOLING COIL: LEAVING AIR DB (°F)	COOLING COIL: LEAVING AIR WB (°F)	COOLING COIL: TOTAL CAPACITY (MBH)	COOLING COIL: SENSIBLE CAPACITY (MBH)	COOLING COIL: EWT (°F)	COOLING COIL: LWT (°F)	COOLING COIL: NO. OF COILS	COOLING COIL: FACE VEL. (FPM)	COOLING COIL: AIR PRESSURE DROP (IN. W.C.)	COOLING COIL: FLUID FLOW (GPM)	COOLING COIL: WATER PRESS. DROP (FT. W.C.)	COOLING COIL: FLUID TYPE	HEATING COIL: EAT (°F)	HEATING COIL: LAT (°F)	HEATING COIL: EWT (°F)	HEATING COIL: LWT (°F)	HEATING COIL: MBH	HEATING COIL: NO. OF COILS	HEATING COIL: MAX FACE VEL. (FPM)	HEATING COIL: AIR PRESSURE DROP (IN. W.C.)	HEATING COIL: FLUID FLOW (GPM)	HEATING COIL: WATER PRESSURE DROP (FT. W.C.)	HEATING COIL: FLUID TYPE	BASERAIL HEIGHT (IN.)	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
MUA-1	MAIN HALL; MEZZ	MAIN HALL MAKE-UP	25,000	25,000	2.0	PLENUM	1	1230	30	1160	460/3/60	N.A.	MERV 13	87	75	60	60	1441	760	44	60	2	525	1.0	185	16	30% P.G.	-15	82	140	100	2578	2	570	0.3	135	32	30% P.G.	6	7400	DAIKIN	CAH053	ALL NOTES APPLY
MUA-2	MAIN HALL; MEZZ	MAIN HALL MAKE-UP (FUTURE)	6,000	UNIT IS FOR FUTURE EXPANSION, AND NOT TO BE INCLUDED IN CONTRACT; AIRFLOW NOTED FOR FUTURE REFERENCE, ONLY																																							

NOTES:
1. UNIT SHALL BE INSTALLED ON DECK OF ENCLOSURE BELOW; NO HOUSEKEEPING PAD SHALL BE PROVIDED; BASERAIL FROM FACTORY SHALL BE OF HEIGHT SUFFICIENT FOR CONDENSATE TRAP
2. PROVIDE CONDENSATE TRAP, PER DETAIL, AND ROUTE TO DISPOSAL POINT PER PLAN
3. UNIT SHALL BE CONTROLLED BY BUILDING AUTOMATION SYSTEM; REFER TO CONTROLS SCHEMATICS
4. EACH FAN PROVIDED WITH VFD / DISCONNECT, FROM FACTORY; ALL WIRING BY ELECTRICAL
5. EACH FAN PROVIDED WITH FACTORY SHAFT-GROUNDING KIT
6. FACTORY DRAIN PAN SHALL BE ASHRAE COMPLIANT
7. COILS SHALL BE FULLY DRAINABLE; REFER TO DETAIL
8. INSTALL PIPING AND DUCTWORK IN AREA OF UNIT TO ALLOW FOR MAINTENANCE ACCESS: COIL PULLS, FILTER PULLS, MOTOR REMOVAL, AND ENTHALPY WHEEL REMOVAL SHALL ALL BE ACCCOMPLISHED WITHOUT DISCONNECTING OF PIPING OR DUCTWORK

HVAC PUMP SCHEDULE

TAG	SERVES	PUMP TYPE	DESIGN FLOW (GPM)	DESIGN HEAD (FT. HD)	FLUID	MOTOR: V/PH/HZ	MOTOR: HP	MOTOR: RPM	PUMP SIZE (IN.): SUCTION	PUMP SIZE (IN.): DISCHARGE	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
P-1A	HEATING SYSTEM VAR-PRIME	SPLIT-COUPLED, VERTICAL INLINE, WITH VFD	300	75	30% P.G.	460/3/60	10.0	1,800	3	3	275	GRUNDFOS	VLSE 30957	1,2,3,4
P-1B	HEATING SYSTEM VAR-PRIME	SPLIT-COUPLED, VERTICAL INLINE, WITH VFD	300	75	30% P.G.	460/3/60	10.0	1,800	3	3	275	GRUNDFOS	VLSE 30957	1,2,3,4
P-2A	CHILLED WATER PRIMARY (CH-1A)	WET ROTOR INLINE, WITH VFD	100	15	30% P.G.	460/3/60	1.0	2,800	2.5	2.5	85	GRUNDFOS	TPE3	1, 2, 3
P-2B	CHILLED WATER PRIMARY (CH-1B)	WET ROTOR INLINE, WITH VFD	100	15	30% P.G.	460/3/60	1.0	2,800	2.5	2.5	85	GRUNDFOS	TPE3	1, 2, 3
P-2C	CHILLED WATER PRIMARY (CH-1C)	WET ROTOR INLINE, WITH VFD	100	15	30% P.G.	460/3/60	1.0	2,800	2.5	2.5	85	GRUNDFOS	TPE3	1, 2, 3
P-2D	CHILLED WATER PRIMARY (CH-1D)	WET ROTOR INLINE, WITH VFD	100	15	30% P.G.	460/3/60	1.0	2,800	2.5	2.5	85	GRUNDFOS	TPE3	1, 2, 3
P-3A	CHILLED WATER SECONDARY	SPLIT-COUPLED, VERTICAL INLINE, WITH VFD	400	60	30% P.G.	460/3/60	10.0	1,800	4	4	320	GRUNDFOS	VLSE 40959	1,2,3,5
P-3B	CHILLED WATER SECONDARY	SPLIT-COUPLED, VERTICAL INLINE, WITH VFD	400	60	30% P.G.	460/3/60	10.0	1,800	4	4	320	GRUNDFOS	VLSE 40959	1,2,3,5

NOTES:
1. REFER TO DETAIL
2. INTEGRATE ON-BOARD CONTROLLER INTO BUILDING AUTOMATION SYSTEM; REFER ALSO TO CONTROLS SCHEMATICS
3. SEPARATE DISCONNECT AND ALL WIRING BY ELECTRICAL
4. PUMPS P-1A AND P-1B ARE REDEUNDANT PARALLEL PUMPS SIZED FOR 100% OF FLOW AND 100% OF HEAD.
5. PUMPS P-3A AND P-3B ARE REDEUNDANT PARALLEL PUMPS SIZED FOR 100% OF FLOW AND 100% OF HEAD.

AIR CURTAIN SCHEDULE

TAG	LOCATION	FAN DATA: CFM	FAN DATA: NOZZLE VELOCITY (FPM)	FAN DATA: MAX. SOUND (dBA)	FAN DATA: HP	FAN DATA: VOLTS	FAN DATA: PHASE	HEATING COIL: MBH	HEATING COIL: TYPE	HEATING COIL: EAT (°F)	HEATING COIL: LAT (°F)	OVERALL DIMENSIONS L x H x D (IN.)	NOZZLE WIDTH (IN.)	INSTALLATION HEIGHT (A.F.F.)	WEIGHT (POIUNDS)	MANUFACTURER	MODEL	NOTES
AC-01	EXTERIOR	23,000	6,900	78	(2) 7.5	460	3	NO HEATING				195x21x32	192	16'-8"	1,190	BERNER	IDC20-2192A	ALL NOTES APPLY
AC-02	EXTERIOR	23,000	6,900	78	(2) 7.5	460	3	NO HEATING				195x21x32	192	16'-8"	1,190	BERNER	IDC20-2192A	ALL NOTES APPLY
AC-04	EXTERIOR	23,000	6,900	78	(2) 7.5	460	3	NO HEATING				195x21x32	192	16'-8"	1,190	BERNER	IDC20-2192A	ALL NOTES APPLY
AC-05	EXTERIOR	23,000	6,900	78	(2) 7.5	460	3	NO HEATING				195x21x32	192	16'-8"	1,190	BERNER	IDC20-2192A	ALL NOTES APPLY
AC-06	EXTERIOR	23,000	6,900	78	(2) 7.5	460	3	NO HEATING				195x21x32	192	16'-8"	1,190	BERNER	IDC20-2192A	ALL NOTES APPLY

NOTES:
1. UNIT SHALL BE RATED TO ACHIEVE PEST CONTROL FOR FOOD OPERATIONS WITH THE ASSOCIATED OPENING (BELOW; DOOR OR WINDOW) OPEN, AND AT INSTALLATION HEIGHT NOTED
2. MANUFACTURER SHALL PROVIDE FACTORY WIRED MOTOR STARTER, DISCONNECT, AND CONTROL TRANSFORMER AS REQUIRED FOR SINGLE POINT POWER CONNECTION
3. REFER TO ARCHITECTURAL PLANS FOR EXTERIOR ELEVATIONS
4. COLOR SELECTION BY ARCHITECT; COLOR SHALL BE CUSTOM, NOT MANUAFCTURER STANDARD NOR STAINLESS STEEL OPTION
5. SOUND LEVEL AS MEASURED 10 FEET FROM UNIT
6. UNIT SHALL BE PROVIDED WITH CONTACTOR SWITCH TO ACTIVATE UPON OPENING OF ASSOCIATED DOOR, GARAGE DOOR, WINDOW, ETC. ALL WIRING/CONTROL WORK BY MECHANICAL CONTRACTOR
7. UNIT SHALL BE STAND-ALONE OPERATION, AND NOT CONNECTED TO BUILDING AUTOMATION SYSTEM.
8. INTERIOR AND EXTERIOR OF CABINET SHALL HAVE GRAY EPOXY PRIMER WITH GRAY EPOXY TOP COAT.
9. PROVIDE CONTROL PANEL FOR INDOOR MOUNTING WITH FACTORY INSTALLED NON-FUSED SERVICE DISCONNECT AND 24V CONTROL VOLTAGE.
10. PROVIDE 24V HEATVY DUTY MAGNETIC REED DOOR SWITCH FOR UNIT ACTIVATION.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

TAG	DESCRIPTION	MATERIAL	FINISH	NOISE CRITERIA (NC)	MANUFACTURER	MODEL	NOTES
SG-1	RECTANGULAR DOUBLE-DEFLECTION SUPPLY GRILLE WITH 3/4" SPACING AND OPPOSED BLADE DAMPER. REFER TO DRAWINGS FOR SIZE.	STEEL	WHITE, SEE NOTE	<20	TITUS	300RL	1,2
RG-1	24X24 EGGCRATE RETURN GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM CORE, ALUMINUM BORDER, LAY-IN CEILING MOUNTED FOR ACT CEILING AND SURFACE-MOUNTED FOR OTHERS.	ALUMINUM	WHITE, SEE NOTE	<20	TITUS	50F	1,2
RG-2	24X12 EGGCRATE RETURN GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM CORE, ALUMINUM BORDER, LAY-IN CEILING MOUNTED FOR ACT CEILING AND SURFACE-MOUNTED FOR OTHERS.	ALUMINUM	WHITE, SEE NOTE	<20	TITUS	50F	1,2
RG-3	68x22 EGGCRATE RETURN GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM CORE, ALUMINUM BORDER, DUCT MOUNTED	ALUMINUM	WHITE, SEE NOTE	<35	TITUS	50F	1,2
EG-1	EXHAUST/RETURN GRILLE, 3/4" SPACING, 35 DEG. DEFLECTION WITH OPPOSED BLADE DAMPER. REFER TO DRAWINGS FOR SIZE.	ALUMINUM	WHITE, SEE NOTE	<20	TITUS	350RL	1,2
TG-1	TRANSFER GRILLE, 3/4" SPACING, 35 DEG. DEFLECTION WITHOUT OPPOSED BLADE DAMPER. REFER TO DRAWINGS FOR SIZE.	ALUMINUM	WHITE, SEE NOTE	<20	TITUS	350RL	1,2

NOTES:
1. SEE SPECIFICATION SECTION [23 33 00] FOR ADDITIONAL INFORMATION.
2. WHERE A DIFFUSER OR GRILLE IS ATTACHED TO EXPOSED DUCTWORK, FINISH SHALL BE THE SAME COLOR AS THE DUCTWORK

VENTILATION SCHEDULE

ROOM NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (SQFT)	PEOPLE/1000 SQFT	# OF OCCUPANTS	SBS TABLE 364.0403 (WI CODE): PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	SBS: EXHAUST (CFM/UNIT)	SBS: EXHAUST (CFM/NET SQFT FLOOR AREA	SBS: TOTAL EXHAUST AIR (CFM)	SBS: TOTAL OUTDOOR AIR (CFM)	ASHRAE 62.1: PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	ASHRAE: AREA OUTDOOR AIR RATE (CFM/SQFT)	ASHRAE: EXHAUST (CFM/UNIT)	ASHRAE: EXHAUST (CFM/NET SQFT FLOOR AREA	ASHRAE: TOTAL EXHAUST AIR (CFM)	ASHRAE: TOTAL OUTDOOR AIR (CFM)
ANCHOR VENDOR 102 *	RESTAURANT / DINING	1,984	70	34	7.50	NR	NR	0	255	7.5	0.18	NR	NR	0	612
MAIN HALL 121 *	RESTAURANT / DINING	16,263	70	300	7.5	NR	NR	0	2,250	7.5	0.18	NR	NR	0	5,177
VENDOR GROUP 10 *	RESTAURANT / DINING	1,674	70	22	7.5	NR	NR	0	165	7.5	0.18	NR	NR	0	466
MARKET KITCHEN 142 *	KITCHEN	1,134	NR	6	NR	NR	1.5	1,701	0	7.5	0.12	NR	0.7	794	181
RESTROOM 145	RESTROOM	613	NR	0	NR	75	NR	525	0	NR	NR	70	NR	490	0
CORRIDOR 147	CORRIDOR	1,012	NR	0	NR	NR	NR	0	0	NR	0.06	NR	NR	0	61
MAILROOM 149	OCCUPIABLE STORAGE	54	NR	0	NR	NR	NR	0	0	5.0	0.06	NR	NR	0	3
JANITOR 150.1	JANITOR	64	NR	0	NR	75	2	75	0	NR	NR	NR	1	64	0
JANITOR 150.2	JANITOR	43	NR	0	NR	75	2	75	0	NR	NR	NR	1	43	0
CORRIDOR 150	CORRIDOR	355	NR	0	NR	NR	NR	0	0	NR	0.06	NR	NR	0	21
VENDOR DRY STORAGE 151	OCCUPIABLE STORAGE	483	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	58
LOADING 152	TRASH ROOMS	743	NR	0	NR	NR	NR	0	0	NR	NR	NR	1	743	0
SOUTH HALL 163 **	DINING ROOMS	7,086	70	192	7.5	NR	NR	0	1,440	7.5	0.18	NR	NR	0	2,715
STORAGE 166	OCCUPIABLE STORAGE	329	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	39
ANCHOR VENDOR 162 *	RESTAURANT / DINING	2,480	70	62	7.5	NR	NR	0	465	7.5	0.18	NR	NR	0	911
ADMIN OFFICE 201 **	OFFICE	823	5	8	7.5	NR	NR	0	60	5.0	0.06	NR	NR	0	89
DIRECTORS OFFICE 202	OFFICE	217	5	1	7.5	NR	NR	0	8	5.0	0.06	NR	NR	0	18
RESTROOM CORRIDOR 206	RESTROOM	723	NR	0	NR	75	NR	525	0	NR	NR	70	NR	490	0
COMFORT ROOM 209	OFFICE	62	5	1	7.5	NR	NR	0	8	5.0	0.06	NR	NR	0	9
STORAGE 210	OCCUPIABLE STORAGE	163	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	20
DATA & IT 211	OCCUPIABLE STORAGE	94	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	11
MARKET SEATING 213 **	RESTAURANT / DINING	2,741	70	100	7.5	NR	NR	0	750	7.5	0.18	NR	NR	0	1,243
UTILITY 214	OCCUPIABLE STORAGE	31	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	4
VENDOR DRY STORAGE 215	OCCUPIABLE STORAGE	1,825	NR	0	NR	NR	NR	0	0	5.0	0.12	NR	NR	0	219

NOTES:
1. N.R. = NO REQUIREMENT
2. * MEANS THAT # OF OCCUPANTS WAS OVERRIDEN TO MEET ARCHITECTRUAL CODE PLAN. ** MEANS THAT # OF OCCUPANTS WAS OVERRIDEN TO MEET # OF CHAIRS IN SPACE PER SPS 364.0403

LOUVER SCHEDULE

TAG	LOCATION	SERVICE	CFM	SIZE (W x H) (IN.)	FACE VELOCITY (FPM)	MIN. % FREE AREA	TYPE	MANUFACTURER	MODEL	NOTES
L-1	SOUTH ELEVATION	AHU-1 OUTDOOR AIR	10,000	108x72	370	50.0	DRAINABLE BLADE; STATIONARY	GREENHECK	ESD	ALL NOTES APPLY
L-2	SOUTH ELEVATION	AHU-2 OUTDOOR AIR	2,000	40x40	370	50.0	DRAINABLE BLADE; STATIONARY	GREENHECK	ESD	ALL NOTES APPLY
L-3	SOUTH ELEVATION	AHU-2 EXHAUST AIR	2,000	40x40	370	50.0	DRAINABLE BLADE; STATIONARY	GREENHECK	ESD	ALL NOTES APPLY

NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR LOCATION
2. COLOR BY ARCHITECT
3. REFER TO DETAIL

GLYCOL FEED SYSTEM

TAG	LOCATION	SERVES	FLUID MIX	TANK VOLUME (GAL)	DIMENSIONS (WxDxH, INCHES)	PRESSURE RANGE (PSIG)	SYSTEM PRESSURE (PSIG)	ELECTRICAL: V/PH/HZ	ELECTRICAL: HP	MANUFACTURER	MODEL	NOTES
GFS-1	MECHANICAL ROOM	HOT WATER HEATING	30% PROPYLENE	53	24x26x51	10-50	20	120/1/60	3/4	ARMSTRONG	GLA-S-HP-1	ALL NOTES APPLY
GFS-2	MECHANICAL ROOM	CHILLED WATER	30% PROPYLENE	53	24x26x51	10-50	20	120/1/60	3/4	ARMSTRONG	GLA-S-HP-1	ALL NOTES APPLY

NOTES:
1. INSTALL ON CONCRETE PAD; CONCRETE PAD BY MECHANICAL CONTRACTOR; REFER TO SPECIFICATIONS
2. UNIT IS COMBINATION FILL STATION, PUMP, AND EXPANSION TANK
3. UNIT SHALL BE INTERCONNECTED WITH CONTROLS SYSTEM TO MONITOR FOR LOW LEVEL ALARM, ONLY; REFER TO CONTROLS SCHEMATICS
4. DISCONNECT AND WIRING BY ELECTRICAL

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Project No: M10.19.04

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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MECHANICAL SCHEDULES

M603

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System Description:
Modular split-type chiller plant with primary/secondary flow and differential pressure pump operation.

Chiller Plant Enable:
Chiller plant shall be enabled when outdoor air temperature is above 50f (adj). Chiller(s) and associated pumps shall not operate unless there is a call for cooling from the system. The BAS shall not start/stop the chiller(s) more than 4 (adj) times in an 18 (adj) hour period to match load demand except if the outside temperature drops below adjustable setpoint for chiller enable.

Water Temperature Control:
Water temperature control shall be based on zone temperature and sent to the chiller controller by the BAS.
1. All zone temperatures and setpoints shall be compared.
2. The zone with temperature furthest from setpoint shall determine supply water setpoint.
3. If the zone furthest from setpoint is 3f (adj) from setpoint, the supply water temperature setpoint shall be 44f (adj).
4. If the zone furthest from setpoint is 0f (adj) from setpoint, the supply water temperature setpoint shall be 48f (adj).
5. Between maximum and minimum distance from setpoints noted, setpoint shall be determined by a linear function between the values given.

Chiller Staging:
Chillers shall be controlled by manufacturer-furnished chiller controller. This contractor is responsible for installing the chiller controller and providing complete control wiring for the installation.
1. Chiller supply water temperature shall be maintained internally by the chiller controller.

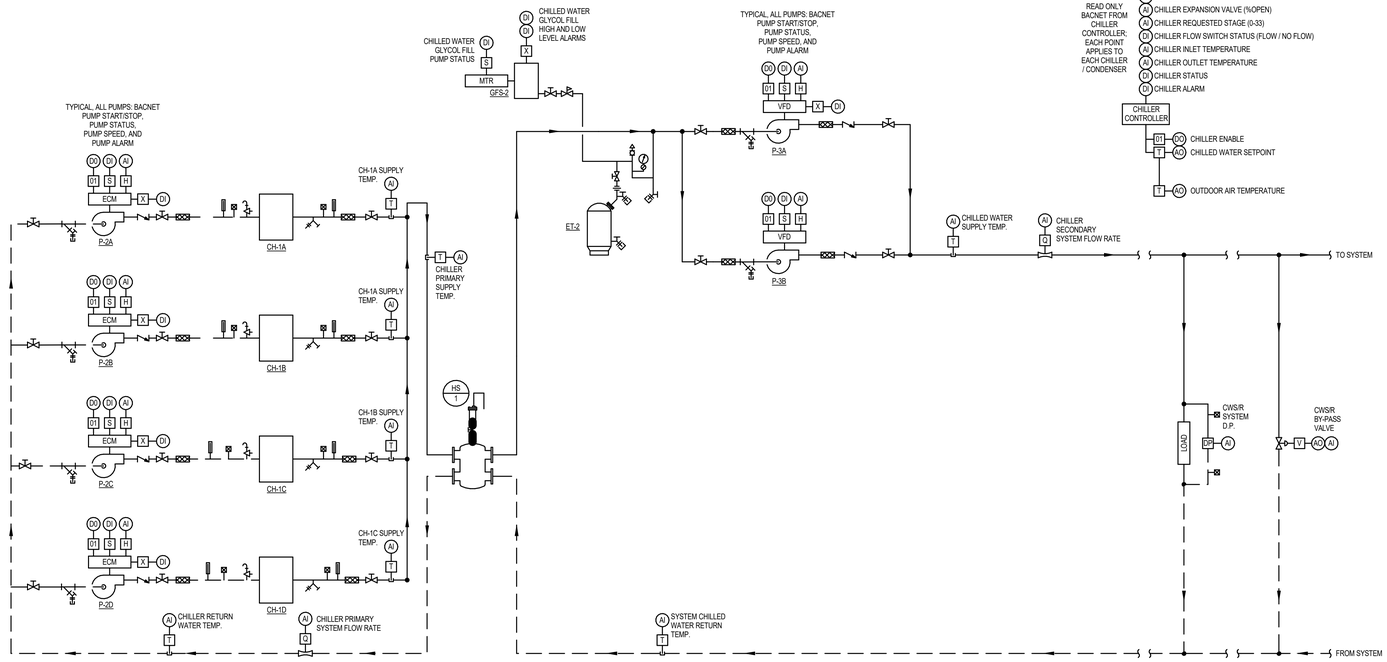
Chiller primary pumps:
Primary pumps shall provide constant flow to each active chiller. Control of primary pumps is via the chiller controller.
1. Upon a call for any chiller module to activate, the corresponding primary pump shall start.
2. Upon chiller turning off, associated pump shall shut off.
3. Provide an interlock that will prevent the chillers from operating if the chilled water pumps are off or the flow is not proven.

Chiller Secondary / System Pumps:
System pumps shall modulate speed based on system differential pressure, with a pressure reset schedule.
1. Pumps operate as lead / lag, as follows:
   a. The lead pump shall be able to be chosen through a selectable day of the week and time of day, through the BAS.
   b. Coordinate with owner for scheduling switchover and frequency. Unless otherwise directed, switchover shall be 10am Tuesday.
   c. In any event, the lag pump shall be commanded on if the lead pump fails.
2. Pumps shall operate only when chillers are enabled and shall receive this signal from the BAS.
3. Pumps shall operate only when any cooling coil is greater than 0% (adj) open; if all valves are closed, pumps shall be off.
4. Lead pump shall modulate speed to maintain differential setpoint.
5. Differential setpoint shall be determined by balancing contractor, but shall be a minimum of 5 psig, and a maximum of 10 psig.
6. Differential pressure shall be reset based on a trim and respond logic using a poll of all system valve positions.
7. If a valve is 99% open, a pressure request shall be sent.
8. Increase pressure setpoint by 0.1 (adj) psig every 10 (adj) minutes if there are 3 (adj) or more pressure requests, up to a maximum of 10 (adj) psi.
9. Decrease pressure setpoint by 0.1 (adj) psig every 10 (adj) minutes if there are less than 3 (adj) pressure requests down to a minimum of 5 (adj) psi.
10. Make no adjustments to pressure setpoint if there are 3 (adj) requests.

Condenser Fans:
Condensers shall be controlled by manufacturer-furnished controller. This contractor is responsible for installing the controller and providing complete control wiring for the installation.
1. Condenser fans shall start, stop, and modulate to maintain head pressure.

Chiller By-Pass Valve
A by-pass valve shall be provided to ensure minimum flow in the system at all times. Valve shall operate based on system flow rates as provided by the system flow meter.
1. Minimum system flow rate is set to the minimum flow of one of the chilled water secondary pumps.
   c. Minimum flow rate for the chiller (measured at the chiller flow meter) shall be set at: 80 + 5 (adj) gpm.
3. By-pass valve shall modulate open to maintain minimum flow rate (measured at the chiller primary flow meter).
4. By-pass valve shall modulate closed as chiller flow rate exceeds minimum.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails (all valves shall provide feedback on position).
2. Maintenance alarm if any lead unit fails, requiring lag start-up.
3. Maintenance alarm if either chiller pump fails, or associated VFD fails / is in fault
4. Maintenance alarm on any chiller controller alarm.
5. Maintenance alarm on any condenser controller alarm.
6. Maintenance alarm if any chiller is manually shut off.
7. Critical alarm if any chiller remains off 5 (adj) minutes after commanded on.



1 MODULAR CHILLER, REMOTE CONDENSER, CONTROL DIAGRAM
NOT TO SCALE

SYMBOLOGY

DIAGRAM SYMBOLOGY

BAS INPUTS/OUTPUTS
- AI ANALOG INPUT
- AO ANALOG OUTPUT
- DI DIGITAL INPUT
- DO DIGITAL OUTPUT

- FREEZE STAT
- SMOKE DETECTOR
- MD MOTORIZED DAMPER
- SMOKE DAMPER

- D DAMPER POSITION
- V VALVE POSITION
- DP DIFF. PRESSURE
- P PRESSURE
- M MOISTURE (%RH)
- ES END SWITCH
- C CONTAMINANT SENSOR
- Q FLOW MEASUREMENT
- O OCCUPANCY SENSOR
- T TEMP. SENSOR
- R RHEOSTAT
- PRESSURE REGULATOR
- H VFD HERTZ / SPEED MONITOR
- S CURRENT STATUS MONITOR
- 01 START / STOP
- F FLOW SWITCH
- X ALARM / FAULT / SAFETY

- FAN/PUMP
- FLOW METER
- 2-WAY VALVE
- 3-WAY VALVE
- xx 2-WAY CONTROL VALVE
- ECM ELECTRICALLY COMMUTATED MOTOR
- MTR MOTOR
- VFD VARIABLE FREQUENCY DRIVE

System Description:
Two boiler plant with variable primary flow and differential pressure pump operation

Boiler Plant Enable:
Boiler plant shall be enabled when outdoor air temperature is below 60f (adj) and a mininum of 3 (adj) zones are calling for heat. When outdoor air temperature is less than 35f (adj), the plant shall be enabled with 0 calls for heat.

Water Temperature Control:
Water temperature control shall be set by an outdoor air reset schedule, with additional demand-based reset as follows:
1. At 50f (adj) outdoor air and above, water setpoint shall be 90f (adj)
2. At -10 (adj) outdoor air and below, water setpoint shall be 140f (adj)
3. Between maximum and minimum outdoor air temperatures noted, setpoint shall be determined by a linear function between the values given.
4. A demand-based component shall be provided based on a poll of all valve positions, and allow up to 10f (adj) to be added or subtracted from the setpoint calculated based on outdoor air temperature.
5. A call for heat is generated when a valve is 99% open.
6. Every 2 minutes (adj) add 0.2f (adj) to the setpoint if there are 3 (adj) or more calls for heat.
7. Every 2 minutes (adj) subtract 0.2f (adj) from the setpoint if there are less than 3 (adj) calls for heat.
8. If there are 3 (adj) calls for heat, setpoint shall remain as determined by outdoor air reset.

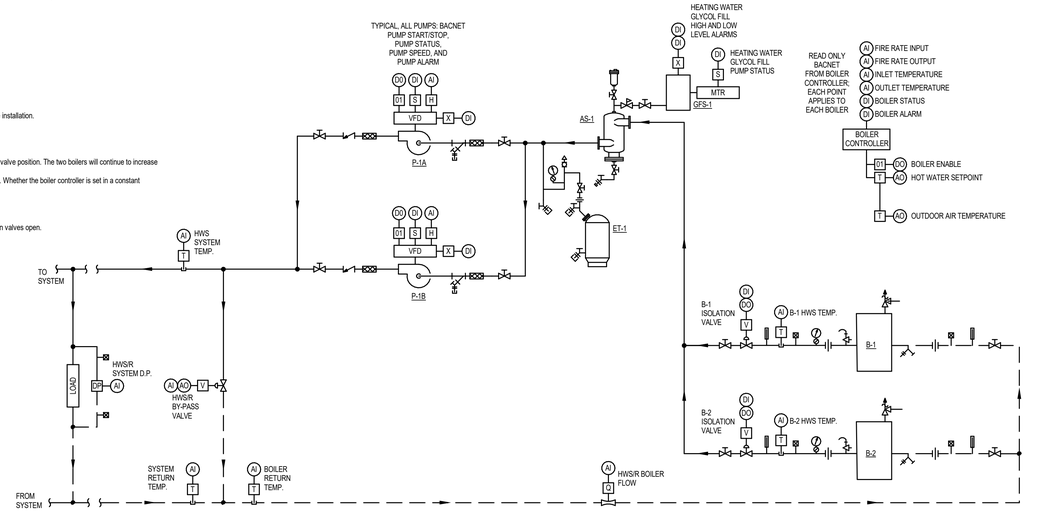
Boiler Control Valve:
Each boiler shall be furnished from the factory with a motorized 2-position control valve.
1. Isolation valve shall be proven open prior to boiler fire.
2. When boiler is de-activated, valve shall stay open for 2 (adj) minutes, and then close.
3. Boiler isolation valve is controlled by boiler controller.

Boiler Staging and Firing:
Boilers shall be controlled by manufacturer-furnished boiler controller. This contractor is responsible for installing the boiler control panel and providing complete control wiring for the installation.
1. Boilers operate as lead / lag, as follows:
   a. The lead boiler shall be able to be chosen through a selectable day of the week and time of day, through the BAS.
   b. Coordinate with owner for scheduling switchover and frequency. Unless otherwise directed, switchover shall be 10am Tuesday.
   c. In any event, the lag boiler shall be commanded on if the lead boiler fails.
2. The lead boiler will increase input, as required, until 50% fire rate is reached. At that point, the lag boiler shall be commanded on, and both shall run at 30% percent fire rate valve position. The two boilers will continue to increase input, together, as required to meet setpoint.
3. Boiler inputs will modulate down in response in a reverse manner. Each boiler will come off line at the boiler stop level percentage transfer setpoint to maximize condensing. Whether the boiler controller is set in a constant temperature or modulating temperature mode, it will use its modulating ability to prevent header temperature fluctuation and maximize efficiency.

Boiler By-pass Valve:
A by-pass valve shall be provided to ensure minimum flow in the system at all times. Valve shall operate based on system flow rates as provided by the system flow meter.
1. Minimum system flow rate is 25 (adj) gpm for one boiler, and 50 gpm for two boilers. Minimum flow rate shall be either of these two values, depending on quantity of isolation valves open.
2. By-pass valve shall modulate open to maintain minimum flow rate (measured at the hws/r boiler flow meter).
3. By-pass valve shall modulate closed as flow rate exceeds minimum.

Boiler System Pumps:
System pumps shall modulate speed based on system differential pressure, with a pressure reset schedule.
1. Pumps operate as lead / lag, as follows:
   a. The lead pump shall be able to be chosen through a selectable day of the week and time of day, through the BAS.
   b. Coordinate with owner for scheduling switchover and frequency. Unless otherwise directed, switchover shall be 10am Tuesday.
   c. In any event, the lag pump shall be commanded on if the lead pump fails.
2. Pumps shall operate only when boilers are enabled [operating]
3. Operational pump shall continue to run for 2 (adj) minutes after boiler stops firing.
4. Lead pump shall modulate speed to maintain differential setpoint.
5. Differential setpoint shall be determined by balancing contractor, but shall be a minimum of 5 psig, and a maximum of 10 psig.
6. Differential pressure shall be reset based on a trim and respond logic using a poll of all system valve positions.
7. If a valve is 99% open, a pressure request shall be sent.
8. Increase pressure setpoint by 0.1 (adj) psig every 10 (adj) minutes if there are 3 (adj) or more pressure requests.
9. Decrease pressure setpoint by 0.1 (adj) psig every 10 (adj) minutes if there are less than 3 (adj) pressure requests.
10. Make no adjustments to pressure setpoint if there are 3 (adj) requests.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails (all valves shall provide feedback on position).
2. Maintenance alarm if any lead unit fails, requiring lag start-up.
3. Maintenance alarm if either boiler pump fails, or associated VFD fails / is in fault
4. Maintenance alarm on any boiler controller alarm.
5. Maintenance alarm if supply water temperature remains 15f (adj) or more below setpoint for 30 (adj) minutes.
6. Maintenance alarm if any boiler is manually shut off.
7. Critical alarm if any boiler remains off 5 (adj) minutes after commanded on.



2 2-BOILER, VARIABLE PRIMARY, CONTROL DIAGRAM
NOT TO SCALE

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

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MECHANICAL SCHEMATICS

M701

SYMBOLOGY

DIAGRAM SYMBOLOGY

BAS INPUTS/OUTPUTS

- AI ANALOG INPUT
- AO ANALOG OUTPUT
- DI DIGITAL INPUT
- DO DIGITAL OUTPUT

- FREEZE STAT
- SMOKE DETECTOR
- MD MOTORIZED DAMPER
- SMOKE DAMPER

- D DAMPER POSITION
- V VALVE POSITION
- DP DIFF. PRESSURE
- P PRESSURE
- M MOISTURE (%RH)
- ES END SWITCH
- C CONTAMINANT SENSOR
- Q FLOW MEASUREMENT
- O OCCUPANCY SENSOR
- T TEMP. SENSOR
- ~ RHEOSTAT
- R PRESSURE REGULATOR
- H VFD HERTZ / SPEED MONITOR
- S CURRENT STATUS MONITOR
- 01 START / STOP
- F FLOW SWITCH
- X ALARM / FAULT / SAFETY

- FAN/PUMP
- FLOW METER
- 2-WAY VALVE
- 3-WAY VALVE
- XX 2-WAY CONTROL VALVE
- ECM ELECTRICALLY COMMUTATED MOTOR
- MTR MOTOR
- VFD VARIABLE FREQUENCY DRIVE

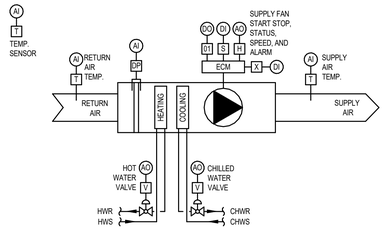
System Description:
4-pipe fan coil for heating and cooling operation

System Setpoints:
1. Space setpoint shall be controlled through the building automation system as scheduled below.
   a. Occupied areas, served by fan coils:
      Heating, occupied: 70F (adj)
      Heating, unoccupied: 65F (adj)
      Cooling, occupied: 75F (adj)
      Cooling, unoccupied: 80F (adj)
2. Spaces shall not be provided with user control at the local sensor.

Fan Coil Operation:
Space sensor shall control the fan and coil valve.
1. When space temperature is below heating setpoint, the fan shall activate and the heating coil valve shall modulate open.
2. When space temperature is above cooling setpoint, the fan shall activate and the cooling coil valve shall modulate open.
3. When space temperature is in deadband, between heating and cooling setpoints, both heating and cooling valves shall modulate closed, and the fan shall be off.

Seasonal Weather Override:
A general override of HVAC systems shall be provided to disable active heating and cooling.
1. If the operator selects seasonal override, the heating and cooling valves shall be locked out in the closed position.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails. Valve failure shall be determined by comparison of valve position to discharge air temperature, if DAT does not change by 2F (adj) within 2 minutes (adj) of valve open, then alarm shall be generated.
2. Maintenance alarm if space temperature drops below heating setpoint by 10F (adj).



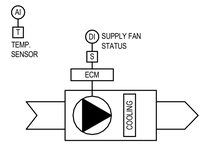
2 FOUR-PIPE FAN COIL UNIT CONTROL DIAGRAM
NOT TO SCALE

System Description:
Split unit refrigerant system for cooling (only) operation (down to -20F)

System Setpoints:
1. Space setpoint shall be controlled through the building automation system as scheduled below.
a. Data, audio/visual, technology areas, internal to building:
Cooling, occupied setpoint: 78F (adj)
Cooling, unoccupied setpoint: 80F (adj)

Split Unit Operation:
Space sensor shall control the split unit.
1. When space temperature is above setpoint, the unit shall activate.
2. Unit shall deactivate when space temperature is below setpoint.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if space temperature exceeds setpoint by 10F (adj).

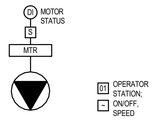


1 SPLIT UNIT - COOLING ONLY
NOT TO SCALE

System Description:
High volume, low velocity fans for circulation and destratification

Circulation Fan Operation:
Building automation system shall monitor, but not control fan operation. All controls work remains by controls contractor.
1. Control shall be by local switch, furnished by manufacturer.
2. Upon switch activation, fan shall start.
3. Upon switch de-activation, the reverse shall occur.

Alarms:
None.

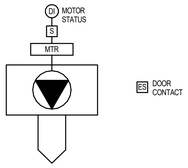


6 CIRCULATION FAN
NOT TO SCALE

System Description:
Air curtains for pest control

Air Curtain Operation:
Building automation system shall monitor, but not control fan operation. All controls work remains by controls contractor.
1. Control shall be by door switch, furnished by manufacturer.
2. Upon switch activation, fan shall start.
3. Upon switch de-activation, the reverse shall occur.

Alarms:
None.



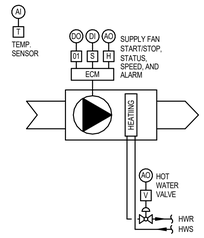
5 AIR CURTAIN
NOT TO SCALE

System Description:
2-pipe cabinet unit heater for heating operation only

System Setpoints:
1. Space setpoint shall be controlled through the building automation system as scheduled below.
a. Perimeter, vestibule, other misc areas:
Heating, occupied setpoint: 65F (adj)
Heating, unoccupied setpoint: 60F (adj)

Cabinet Unit Heater Operation:
Space sensor shall control the fan and coil valve.
1. When space temperature is below setpoint, the fan shall activate and the coil valve shall open.
2. The reverse shall occur when space temperature is above setpoint.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if space temperature drops below setpoint by 10F (adj).

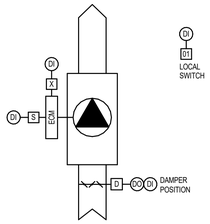


4 UNIT HEATER (CABINET OR OTHER)
NOT TO SCALE

System Description:
Local exhaust fan for dishwasher

Exhaust Fan Operation:
Building automation system shall monitor, but not control fan operation. All controls work remains by controls contractor.
1. Control shall be by local switch.
2. Upon switch activation, damper shall open and fan shall start (damper shall be proved open prior to fan start).
3. Upon switch de-activation, the reverse shall occur.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if damper fails (damper shall provide feedback on position).
2. Maintenance alarm if motor status does not match signal.



3 DISHWASHER EXHAUST
NOT TO SCALE

System Description:
Distributed variable air volume grease exhaust system with local controllers for individual exhaust hoods; with make-up air from a modular variable air volume air handler with supply fan, cooling coil, and re-heat coil.

Schedule / Enable:
Exhaust systems and air handler shall be scheduled through the bas and shall operate only during "occupied" hours. Units shall be off during unoccupied hours.

Exhaust hoods / Variable Airflow Damper at Hood:
1. During occupied hours, the exhaust hoods shall use local control elements, furnished by hood manufacturer, to determine individual hood demand. Sensors include room sensor, collar sensor, and infrared sensor.
2. Based on feedback from sensors, the variable air volume damper local to each hood shall modulate open or closed, depending on need for greater or less airflow.
3. The variable air volume damper position shall return a signal to the hood control system which shall be converted into an airflow rate of exhaust for each hood.

Exhaust fan:
1. During occupied hours, the exhaust fans serving the cooking spaces shall remain on.
2. Fan speed shall be modulated based on feedback from individual hoods, summed for any hoods combined into a single fan.

Make-up Air Unit Supply Fan:
Fan operates to maintain make-up airflow rate equal to hood exhaust rate.
1. The make-up air unit shall receive airflow information from the hoods, and sum the value to determine building exhaust airflow rate.
2. The supply fan shall operate to maintain make-up air 200 cfm (adj) above the exhaust airflow.
3. The controls contractor shall tune the reset after the building has been occupied to eliminate instability, and shall provide a trend graph to show stability.

Discharge Air Temperature Control:
Unit DAT is based on oat, with additional sequencing for dehumidification (see below) and interior setpoint control (reset).
1. Discharge air setpoint reset control shall operate within the following parameters.
2. If outdoor air temperature is 40F (adj) or below, discharge air setpoint shall be 75F (adj).
3. If outdoor air temperature is above 80F (adj), discharge air setpoint shall be 63F (adj).
4. A linear relationship between these points shall be calculated for discharge air when outdoor air is between the values noted.
5. There shall be an allowed hysteresis of +/-3F (adj) around the discharge air setpoint. Within this hysteresis, discharge air temperature shall be allowed to drift.
6. Discharge air setpoint shall be reset as follows.
   a. Poll fan coils in the main hall (only). A request for cooling is generated if the fan coil valve is above 99% (adj) of flow and the zone remains above setpoint.
   b. Every 10 (adj) minutes, decrease the discharge air setpoint by 0.2F (adj) if there are greater than 3 (adj) cooling requests. If there are less than 3 (adj) requests, increase the discharge air setpoint by 0.2F (adj). If there are 3 (adj) requests, discharge air shall remain at current setpoint.

Chilled Water Coil / Re-heat Coil, in Normal Operation:
Coils operate when outdoor air conditions do not fall within discharge air setpoint +/- hysteresis.
1. If outdoor air temperature is above setpoint and outside of hysteresis, the cooling coil valve shall modulate open to bring discharge air setpoint to within hysteresis of setpoint.
2. If outdoor air temperature is below setpoint and outside of hysteresis, the heating coil valve shall modulate open to bring discharge air setpoint to within hysteresis of setpoint.
3. If outdoor air is within the hysteresis of setpoint, both valves shall remain closed.

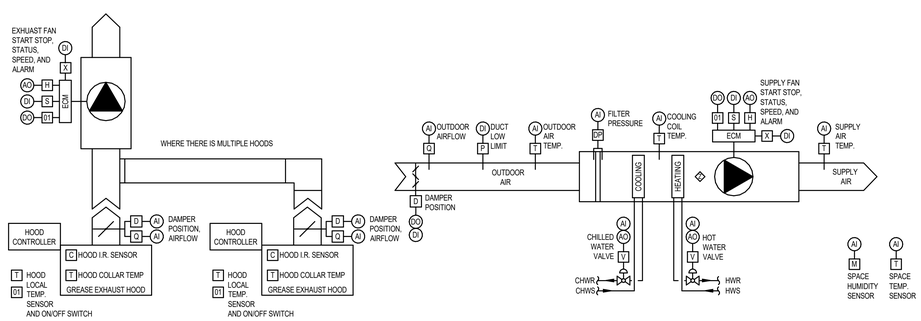
Dehumidification Mode:
Unit shall dehumidify if indoor air conditions exceed humidity parameters.
1. If indoor air humidity exceeds 65% R.H. (adj) the make-up air shall enter dehumidification mode. This shall alter the coil sequences noted above, as follows:
   a. The cooling coil shall modulate coil valve to achieve 55F (adj) immediately after cooling coil (prior to heating coil).
   b. The heating coil valve shall modulate (re-heat) to achieve discharge air setpoint +/- hysteresis.
2. Dehumidification mode shall be exited when indoor air humidity drops 5% below the maximum allowed as noted above.
3. Dehumidification mode shall be locked out when outdoor air temperature is less than 55F (adj).

Seasonal Weather Override:
A general override of HVAC systems shall be provided to disable active heating and cooling.
1. If the operator selects seasonal override, the heating and cooling valves shall be locked out in the closed position.

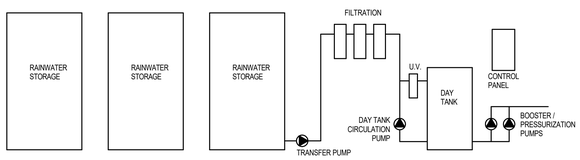
Damper Operations:
Unit includes 2-position outdoor air damper, exterior to unit.
1. The outdoor air damper shall be open during occupied hours, and otherwise closed. Damper shall be proved open prior to fan start.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails (all valves shall provide feedback on position).
2. Maintenance alarm if any damper fails (all dampers shall provide feedback on position).
3. Maintenance alarm if supply air temperature setpoint cannot be achieved (+/- 2F (adj) within 5 minutes (adj) of setpoint adjustment
4. Maintenance alarm if any filter differential pressure exceeds 1" w.c. (adj)
5. Critical alarm if any safety is tripped.

Safeties:
All safeties shall be wired to the supply fan starter of the VFD safety circuits. If any safety is tripped, the starters shall not function in any mode (hand, off, auto). Similarly, VFDs shall not function in any mode (hand, off, auto) or in by-pass mode if a safety is tripped. All safeties shall generate a critical alarm.
1. Freezestat: freezstat shall trip if temperature drops below 35F (adj). Reset of freezstat is manual.
2. Supply fan low pressure limit: low pressure limit shall trip if the duct-mounted static pressure probe drops below setpoint, -4" w.c. (adj). Reset of low pressure limit is manual.



7 MAKE-UP AIR UNIT (WATER) / GREASE EXHAUST SYSTEMS
NOT TO SCALE



RAINWATER COLLECTION / RE-USE SYSTEM:

THE RAINWATER COLLECTION AND RE-USE SYSTEM IS A TURN-KEY SYSTEM, INCLUDING INTEGRAL CONTROLS FOR ALL FUNCTIONS; THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR NO PROGRAMMING. THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR BRINGING THE FOLLOWING INFORMATION INTO THE BUILDING AUTOMATION SYSTEM, FOR DISPLAY, TRENDING, AND TOTALIZATION:

- MAIN STORAGE TANK VOLUME, IN GALLONS
- DAY TANK VOLUME, IN GALLONS
- PRESSURIZATION PUMP DISCHARGE PRESSURE, IN PSI
- U.V. LIGHT BULB USAGE, IN HOURS
- STATUS OF U.V. SYSTEM, ALARM
- RUN HOURS FOR ALL PUMPS
- VOLUME OF DOMESTIC WATER USED AS MAKE-UP INTO SYSTEM
- DAILY WATER VOLUME HARVESTED, IN GALLONS
- FILTER STATUS (MULTIPLE)
- GENERAL ALARM STATUS

8 RAINWATER COLLECTION SYSTEM
NOT TO SCALE

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Project No. M10.19.04

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

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THOMAS BERNARD WEBER
22866-006
CHICAGO
IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

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MECHANICAL SCHEMATICS

M702

SYMBOLOGY

DIAGRAM SYMBOLOGY

BAS INPUTS/OUTPUTS

- AI ANALOG INPUT
- AO ANALOG OUTPUT
- DI DIGITAL INPUT
- DO DIGITAL OUTPUT

- FREEZE STAT
- SMOKE DETECTOR
- MD MOTORIZED DAMPER
- SMOKE DAMPER

- D DAMPER POSITION
- V VALVE POSITION
- DP DIFF. PRESSURE
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- S CURRENT STATUS MONITOR
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- F FLOW SWITCH
- X ALARM / FAULT / SAFETY
- E ENERGY CONSUMPTION

- FAN/PUMP
- FLOW METER
- 2-WAY VALVE
- 3-WAY VALVE
- XX 2-WAY CONTROL VALVE
- ECM ELECTRICALLY COMMUTATED MOTOR
- MTR MOTOR
- VFD VARIABLE FREQUENCY DRIVE

System Description:
Modular variable air volume air handler with supply fan, heating coil, and cooling coil for single zone operation.

Schedule / Enable:
Air handler shall be scheduled through the bas and shall operate under either occupied or unoccupied modes.

Occupied / Unoccupied Modes:
1. During unoccupied mode:
   a. Unit shall be off (all dampers and valves shall be closed, fan shall be off) unless zone space sensor exceeds unoccupied mode setpoint.
   b. In unoccupied cooling mode, if conditions do not allow for economizer operation, the return air damper shall open and all other dampers shall remain closed. The supply fan and primary cooling coil shall operate as specified for occupied mode.
   c. In unoccupied cooling mode, if conditions allow for economizer mode, the unit shall enter economizer mode
   d. In unoccupied heating mode, the return air damper shall open and all other dampers shall remain closed. The supply fan and primary heating coil shall operate as specified for occupied mode.
2. The following sequences apply to occupied mode unless specifically noted otherwise.

Cooling Start-up Mode:
Optimized start to allow morning cool-down
1. This cycle overrides the unoccupied schedule. If unit was operating in unoccupied cooling or in economizer mode at calculated start time, unit shall continue to do so.
2. The DDC system shall measure zone air temperatures and measure outdoor air temperature to determine the minimum runtime required to reach setpoint. Time shall be based on history of similar conditions. Under no circumstances shall the minimum cooling start-up mode runtime be allowed to exceed 120 (adj) minutes.
3. When the start time is reached, the unit shall operate in unoccupied cooling mode, or economizer mode if conditions allow.
4. When occupied time is reached, the unit shall switch to occupied mode.

Supply fan:
Fan operates to space temperature, when cooling / heating coils cannot.
1. Fan shall begin operation at minimum supply airflow rate equal to 30% (adj) of airflow.
2. Fan speed shall increase if:
   a. While in cooling mode, space setpoint has not been achieved, and if discharge air temperature has reached minimum, and if this condition has continued for 10 minutes (adj).
   b. While in heating mode, space setpoint has not been achieved, and if discharge air temperature has reached maximum, and if this condition has continued for 10 minutes (adj).
3. Fan speed shall increase as follows:
   a. Every 5 minutes (adj), if the above condition(s) remain true, then fan speed shall increase by 5%.
4. Fan speed shall decrease in a similar fashion if space setpoint is being maintained.

Heating coil:
Heating coil operates to maintain space setpoint.
1. If space temperature is below setpoint, the heating valve shall modulate open to maintain space setpoint.
2. The valve modulation shall be limited to allowing a maximum discharge air temperature of 95F (adj).
3. If space temperature achieves setpoint, the heating coil valve shall modulate closed.

Primary Chilled Water Coil:
Cooling coil is used to meet discharge air temperature if economizer cannot do so.
1. If space temperature is above setpoint, the cooling valve shall modulate open to maintain space setpoint.
2. The valve modulation shall be limited to allowing a minimum discharge air temperature of 53F (adj).
3. If space temperature achieves setpoint, the cooling coil valve shall modulate closed.
4. The cooling coil shall be locked out below 50F (adj) outdoor air temperature.

Economizer Operation:
Economizer is a floating dry-bulb type.
1. Economizer will be enabled when the outdoor air temperature is less than 65F (adj).
2. When enabled, the economizer shall modulate the outdoor air damper concurrently and inversely to the return damper to achieve the discharge air setpoint.
3. Economizer mode damper operations shall not allow outdoor air to drop below minimum outdoor air airflow rates scheduled.
4. The lower limit for discharge air temperature during economizer mode is 50F (adj).

Ventilation Air Control:
Resets ventilation air at air handler based on space co2 levels.
1. Sequence applies only during occupied mode.
2. The air handler shall be programmed with minimum and reset outdoor air values.
   a. Nominal / setpoint co2 level is 1000 (adj) ppm.
   b. If space co2 from any sensor level is below setpoint, the air handler shall operate to maintain the minimum outdoor airflow rate scheduled at the outdoor airflow sensor.
   c. If space co2 from any sensor is above setpoint, the air handler shall revise the outdoor airflow rate from minimum value to reset value until the space co2 level drops below setpoint, and then shall return to minimum outdoor airflow.

Damper Operations:
Unit includes modulating outdoor air damper (exterior to unit) and modulating return air damper (in unit).
1. Outdoor air damper:
   a. Outdoor air damper shall be closed when the unit is in unoccupied mode, unless the unoccupied economizer operation is active.
   b. During occupied hours, if the unit is not in economizer mode, the outdoor air damper shall modulate to maintain the minimum outdoor airflow rate scheduled.
   c. If the unit is in economizer mode (occupied or unoccupied), the outdoor air damper shall operate as described in the economizer section.
2. Return air damper shall at all times operate concurrently to, and in opposition to, the outdoor air damper.

Seasonal Weather Override:
A general override of HVAC systems shall be provided to disable active heating and cooling.
1. If the operator selects seasonal override, the heating and cooling valves shall be locked out in the closed position.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails (all valves shall provide feedback on position).
2. Maintenance alarm if any damper fails (all dampers shall provide feedback on position).
3. Maintenance alarm if supply air temperature setpoint cannot be achieved (+/- 2F (adj) within 5 minutes (adj) of setpoint adjustment
4. Maintenance alarm if any filter differential pressure exceeds 1" w.c. (adj)
5. Critical alarm if any safety is tripped.

Safeties:
All safeties shall be wired to the supply, return, and exhaust fan starters of the VFD safety circuits. If any safety is tripped, the starters shall not function in any mode (hand, off, auto).
Similarly, VFDs shall not function in any mode (hand, off, auto) or in by-pass mode if a safety is tripped. All safeties generate a critical alarm.
1. Freezestat: freezstat shall trip if temperature drops below 35F (adj). Reset of freezstat is manual.
2. Supply fan high pressure limit: high pressure limit shall trip if the duct-mounted static pressure probe exceeds setpoint, 8" w.c. (adj). Reset of high pressure limit is manual.
3. Return duct low pressure limit: low pressure limit shall trip if the duct-mounted static pressure probe drops below setpoint, -4" w.c. (adj). Reset of low pressure limit is manual.
4. Fire alarm: shall trip upon activation of duct smoke detectors. Reset of fire alarm is manual.

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System Description:
Modular constant air volume air handler with enthalpy wheel, supply fan, exhaust fan, heating coil and cooling coil.

Schedule / Enable:
Energy recovery air handler shall be scheduled through the bas and shall operate only during "occupied" hours. Units shall be off during unoccupied hours.

Supply Fan:
Fan operates at constant flow rate to offset exhaust.
1. Fan shall maintain speed as determined by test and balance contractor.
2. Variable speed fan/drive is provided for balancing, only.

Exhaust Fan:
Fan operates at constant flow rate based on code requirements.
1. Fan shall maintain speed as determined by test and balance contractor.
2. Variable speed fan/drive is provided for balancing, only.

Discharge Air Temperature Control:
Unit DAT is based local thermostat in mezzanine area.
1. Discharge air setpoint shall nominally be set to 68F (adj.).
2. Discharge air setpoint shall be revised based on local thermostat; see coil sequences below.
3. Unit shall operate using enthalpy wheel to maintain nominal discharge temperature, as first stage.
4. If discharge air setpoint cannot be met using enthalpy wheel, coils shall be used.
5. At all times, the discharge air setpoint shall maintain +/-2F (adj) hysteresis to allow drift around setpoint.

Chilled Water Coil:
Cooling coil is last stage to meet discharge air temperature in cooling mode if energy recovery cannot do so.
1. If space temperature is above setpoint, and enthalpy wheel is at full speed, then modulate valve open to maintain space setpoint, down to a minimum discharge air temperature of 55F (adj).
2. If space temperature is below setpoint, and the valve is open, then modulate valve closed to achieve discharge air setpoint.
3. The cooling coil shall be locked out below 50F (adj) outdoor air temperature.

Heating Water Coil:
Heating coil is last stage to meet discharge air temperature if energy recovery cannot do so.
1. If space air temperature is above setpoint, and enthalpy wheel is at full speed, then modulate valve open to achieve space air setpoint, up to a maximum discharge air temperature of 90F (adj).
2. If discharge air temperature is below setpoint, and the valve is open, then modulate valve closed to achieve space air setpoint.
3. The heating coil shall be locked out above 70F (adj) outdoor air temperature.

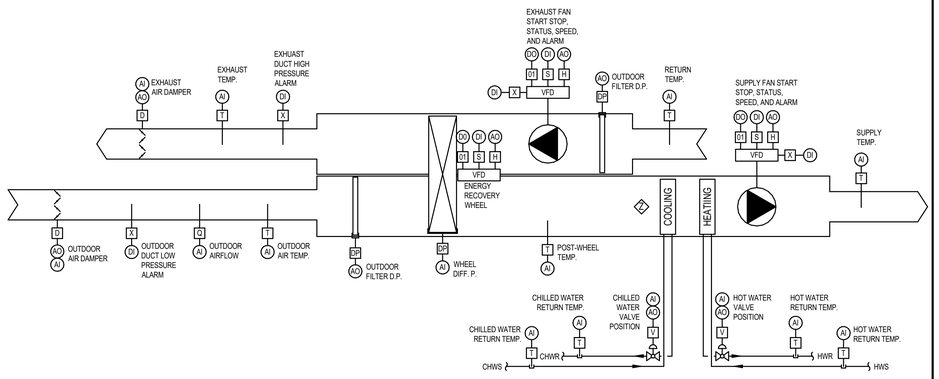
Enthalpy Wheel Operation:
Variable speed total energy recovery between exhaust and outdoor air.
1. Energy recovery wheel shall be enabled whenever outdoor air is above or below the required discharge air setpoint and outside of hysteresis.
2. Energy recovery will be used to achieve discharge air setpoint.
3. If outdoor air is less than discharge air setpoint, the wheel speed will increase speed until discharge air setpoint is met.
4. If outdoor air is greater than discharge air setpoint, the wheel speed will increase speed until discharge air setpoint is met 5. Wheel speed shall be continuously adjusted in either case to achieve setpoint.
5. Wheel shall be deactivated only when outdoor air is equal to or within hysteresis of discharge air setpoint.
6. Purge control: when enthalpy wheel is deactivated, but fans are active, the wheel shall run for 20 (adj) seconds at minimum speed every 30 (adj) minutes to keep the rotor surface clean.
7. [[[[Frost control: if exhaust air temperature (after the wheel) reaches 15F (adj), the electric heating coil provided in the outdoor air stream shall be activated and pre-heat the outdoor air to 15F (adj).]]]]

Damper Operations:
Unit includes two-position outdoor air damper (at louver), and two-position exhaust air damper (at louver).
1. Outdoor air damper:
   a. Outdoor air damper shall be closed when the unit is in unoccupied mode, and open when in occupied mode.
2. Exhaust air damper:
   a. The exhaust air damper shall be closed when the unit is in unoccupied mode, and open when in occupied mode.

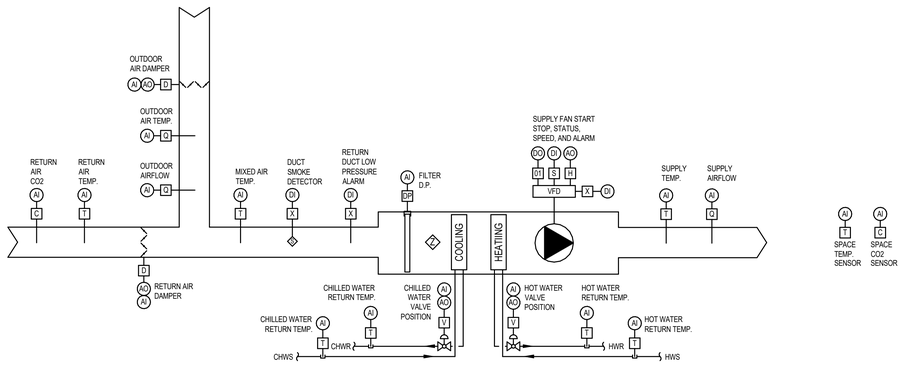
Seasonal Weather Override:
A general override of HVAC systems shall be provided to disable active heating and cooling.
1. If the operator selects seasonal override, the heating and cooling valves shall be locked out in the closed position.
2. The enthalpy wheel shall be allowed to remain active and work to revise discharge air temperature at zone, within a limited range.

Alarms:
See also alarms section in specifications.
1. Maintenance alarm if any valve fails (all valves shall provide feedback on position).
2. Maintenance alarm if any damper fails (all dampers shall provide feedback on position).
3. Maintenance alarm if any filter differential pressure exceeds 1" w.c. (adj)
4. Critical alarm if any safety is tripped.
5. Enthalpy wheel rotation maintenance alarm: the heat wheel includes a factory-furnished proximity switch. Controls contractor shall provide a dry contact input to the bas. If the wheel is indexed to run and 2 (adj) closures are not seen in 10 (adj) minutes, an alarm shall be sent to signal wheel failure.

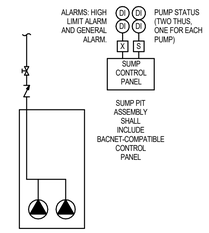
Safeties:
All safeties shall be wired to the supply, return, and exhaust fan starters of the VFD safety circuits. If any safety is tripped, the starters shall not function in any mode (hand, off, auto). Similarly, VFDs shall not function in any mode (hand, off, auto) or in by-pass mode if a safety is tripped. All safeties generate a critical alarm.
1. Freezestat: freezstat shall trip if temperature drops below 35F (adj). Reset of freezstat is manual.
2. Supply fan high pressure limit: high pressure limit shall trip if the duct-mounted static pressure probe exceeds setpoint, 8" w.c. (adj). Reset of high pressure limit is manual.
3. Exhaust fan low pressure limit: low pressure limit shall trip if the duct-mounted static pressure probe drops below setpoint, -4" w.c. (adj). Reset of low pressure limit is manual.
4. Return fan low pressure limit: low pressure limit shall trip if the duct-mounted static pressure probe drops below setpoint, -4" w.c. (adj). Reset of low pressure limit is manual.
5. Fire alarm: shall trip upon activation of duct smoke detectors. Reset of fire alarm is manual.



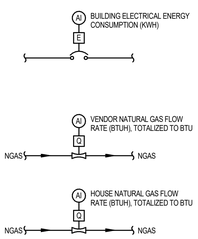
1 ENERGY RECOVERY UNIT (AHU-2) CONTROL SCHEMATIC
NOT TO SCALE



3 AIR HANDLER (AHU-1) CONTROL SCHEMATIC
NOT TO SCALE



2 ELEVATOR SUMP MONITORING
NOT TO SCALE



4 BUILDING UTILITY METERING
NOT TO SCALE

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Commercial Kitchen Design
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Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal
WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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MECHANICAL SCHEMATICS

M703

GENERAL PLUMBING NOTES

1. THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
3. CONTRACTOR SHALL VERIFY ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS
4. VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
5. VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
6. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
7. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS - ZURN, JOSAM, JAY R. SMITH, WATTS, SIOUX CHIEF.
9. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
11. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
13. CHANGES IN THE DIRECTION OF SANITARY AND STORM DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION. USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
14. CONTRACTOR SHALL GIVE 48 HOURS/24 HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
15. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
16. WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES WITH LESS THAN 8" MINIMUM VERTICAL CLEARANCE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (10'-0" EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.
17. CONTRACTOR SHALL GIVE 5 DAY NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM THE BUILDING ADMINISTRATOR (OR HIS REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUTDOWN POINTS WITH THE OWNER REPRESENTATIVE (I.E.: ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
18. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
19. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
20. COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBBS.
21. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
22. ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
23. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
24. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL WATER PURVEYORS. TEST AND REGISTER WITH APPROPRIATE CODE OFFICIAL.
25. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
26. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
27. DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
28. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
29. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
30. ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
31. THE CONTRACTOR SHALL PAY FOR ALL FEES, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK. CITY PAYS FOR PERMIT FEES (BUILDING, MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER AND FIRE ALARM) AHEAD OF CONSTRUCTION.

PLUMBING PIPING LINETYPES

LINETYPE	DESCRIPTION
——— G ———	GAS
———	SANITARY ABOVE GRADE
— — — — — — — —	SANITARY BELOW GRADE
— — — — — — — — — —	VENT ABOVE GRADE
– – – – – – – – – – – –	VENT BELOW GRADE
——— - ———	COLD WATER
— — — — — — — —	COLD WATER BELOW GRADE
——— – – ———	HOT WATER
——— – – – ———	RECIRC WATER
– – – – – – – – – – – –	BELOW GRADE STORM
———	ABOVE GRADE STORM

WATER CALCULATIONS WORKSHEET

1. 120 GPM DEMAND OF BUILDING IN GALLONS PER MINUTE. X
2. 90 PSI LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK.
3. 5 FT DIFFERENCE IN ELEVATION FROM MAIN TO METER.
4. 2-1/2" SIZE OF WATER METER IN INCHES.
5. 100 DEVELOPED LENGTH FROM CURBSTOP TO METER.
6. 0.5 PSI FIND PRESSURE LOSS DUE TO FRICTION IN 3" WATER SERVICE. 0.5 (PSI/100 FT)
7. 2.2 PSI FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE). MULTIPLY THE DIFFERENCE BY .434 PSI/FT.
8. 5 PSI FIND THE PRESSURE LOSS DUE TO METER.
9. 82 PSI SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS ANSWER IS ENTERED IN LINE B, BELOW.

INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:

FORMULA: A = [B - (C + D + E)] x 100 / F

A. 4 PSI/FT PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).

B. 82 PSI AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).

C. 25 PSI PRESSURE NEEDED AT CONTROLLING FIXTURE.

D. 0 DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET
0 x .434 PSI/FT

E. 28 PRESSURE LOSS DUE TO WATER SOFTNERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.

F. 675 FT DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 400 x 1.5.

PLUMBING ABBREVIATIONS

AG	ABOVE GRADE
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ALT	ALTERNATE
APPRX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BG	BELOW GRADE
BLDG	BUILDING
BI	BLACK IRON
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BSMT	BASEMENT
BTWN	BETWEEN
CI	CAST IRON
CL	CENTERLINE
CLR	CLEAR
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS
CW	COLD WATER
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA OR	DIAMETER
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT (FEET)
FURN	FURNACE
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HA	HAMMER ARRESTOR
HB	HOSE BIB
HG	HOUSE NATURAL GAS
HP	HORSEPOWER
HT	HEIGHT
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
KEC	KITCHEN EQUIPMENT CONTRACTOR
LB	POUND
LOC	LOCATION
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
NFC	NOT FOR CONSTRUCTION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PC	PLUMBING CONTRACTOR
PERP	PERPENDICULAR
PLB	PLUMBING
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PWR	POWER
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REQD	REQUIRED
REV	REVERSE OR REVISION
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SCH	SCHEDULE
SCW	SOFT COLD WATER
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE OR TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VAR	VARIABLE OR VARIES
VERT	VERTICAL
VG	VENDOR NATURAL GAS
VOL	VOLUME
VS	VENT STACK
VTR	VENT THRU ROOF
W/	WITH
W/IN	WITHIN
W/O	WITH OUT
WC	WATER COLUMN (INCHES OF)
WCO	WALL CLEANOUT
WG	WATER GAUGE
WP	WEATHER PROOF
WT	WEIGHT

NG LOAD TABLE

EQUIPMENT	INPUT (MBH)
FUTURE VENDOR #1 (ALLOWANCE)	
ALL EQUIPMENT	1100
FUTURE VENDOR #2 (ALLOWANCE)	
ALL EQUIPMENT	1100
HOUSE METER	
B-1	3000
B-2	3000
WH-1	199
VENDOR METER (8 VENDORS)	
WH-2	199
WH-3	199
ALL EQUIP (500 MBH EA.)	4000
TEACHING KITCHEN	
ALL EQUIPMENT	918
TOTAL LOAD	13,715 MBH

NOTES:
1. INSTALL AND VENT REGULATORS PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS & CONNECTIONS.
3. PROVIDE NATURAL GAS AT 2 PSI TO EQUIPMENT REGULATOR. PROVIDE SHUTOFF VALVE, DRIP LEG W/ CAP, REGULATOR AND UNION AS REQUIRED.
4. KITCHEN GAS LOAD IS ESTIMATED. FINAL LOAD INFORMATION IS TO BE DETERMINED.
5. REFER TO NATURAL GAS SCHEMATIC FOR DETAILED INFORMATION.

PLUMBING PIPING LEGEND

- CIRCUIT SETTER
- BALL VALVE OR SHUT-OFF VALVE
- SPRING CHECK VALVE
- END CAP
- NEW TO EXISTING PIPE CONNECTION
- FLOW DIRECTION ARROW
- NEW TO EXISTING POINT OF CONNECTION SYMBOL
- PIPE CONNECTION
- PRESSURE GAUGE
- THERMOMETER
- PUMP
- HAMMER ARRESTOR (PISTON TYPE)
- HAMMER ARRESTOR (BELLOWS TYPE)
- PIPING LINEWEIGHT: NEW/DEMOLITION
- PIPING LINEWEIGHT: EXISTING

PLUMBING SHEET INDEX

P001	PLUMBING LEGENDS, SYMBOLS & ABBREVIATIONS
PD100N	LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - NORTH
PD100S	LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - SOUTH
PD101N	LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - NORTH
PD101S	LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - SOUTH
PD102N	MEZZANINE PLUMBING DEMOLITION - NORTH
PD102S	MEZZANINE PLUMBING DEMOLITION - SOUTH
PD103N	ROOF PLUMBING DEMOLITION - NORTH
PD103S	ROOF PLUMBING DEMOLITION - SOUTH
P010	PLUMBING SITE PLAN
P100N	LEVEL 1 PLUMBING BELOW GRADE - NORTH
P100S	LEVEL 1 PLUMBING BELOW GRADE - SOUTH
P101N	LEVEL 1 PLUMBING ABOVE GRADE - NORTH
P101S	LEVEL 1 PLUMBING ABOVE GRADE - SOUTH
P102N	MEZZANINE PLUMBING - NORTH
P102S	MEZZANINE PLUMBING - SOUTH
P103N	ROOF PLUMBING - NORTH
P103S	ROOF PLUMBING - SOUTH
P401	ENLARGED PLUMBING PLANS
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P602	PLUMBING SCHEDULES
P701	PLUMBING SANITARY ISOMETRICS
P702	PLUMBING STORM ISOMETRICS
P703	PLUMBING WATER SUPPLY ISOMETRICS
P704	PLUMBING WATER SUPPLY ISOMETRICS

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200 N First St, Madison, WI 53704

Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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PLUMBING LEGENDS, SYMBOLS & ABBREVIATIONS

P001

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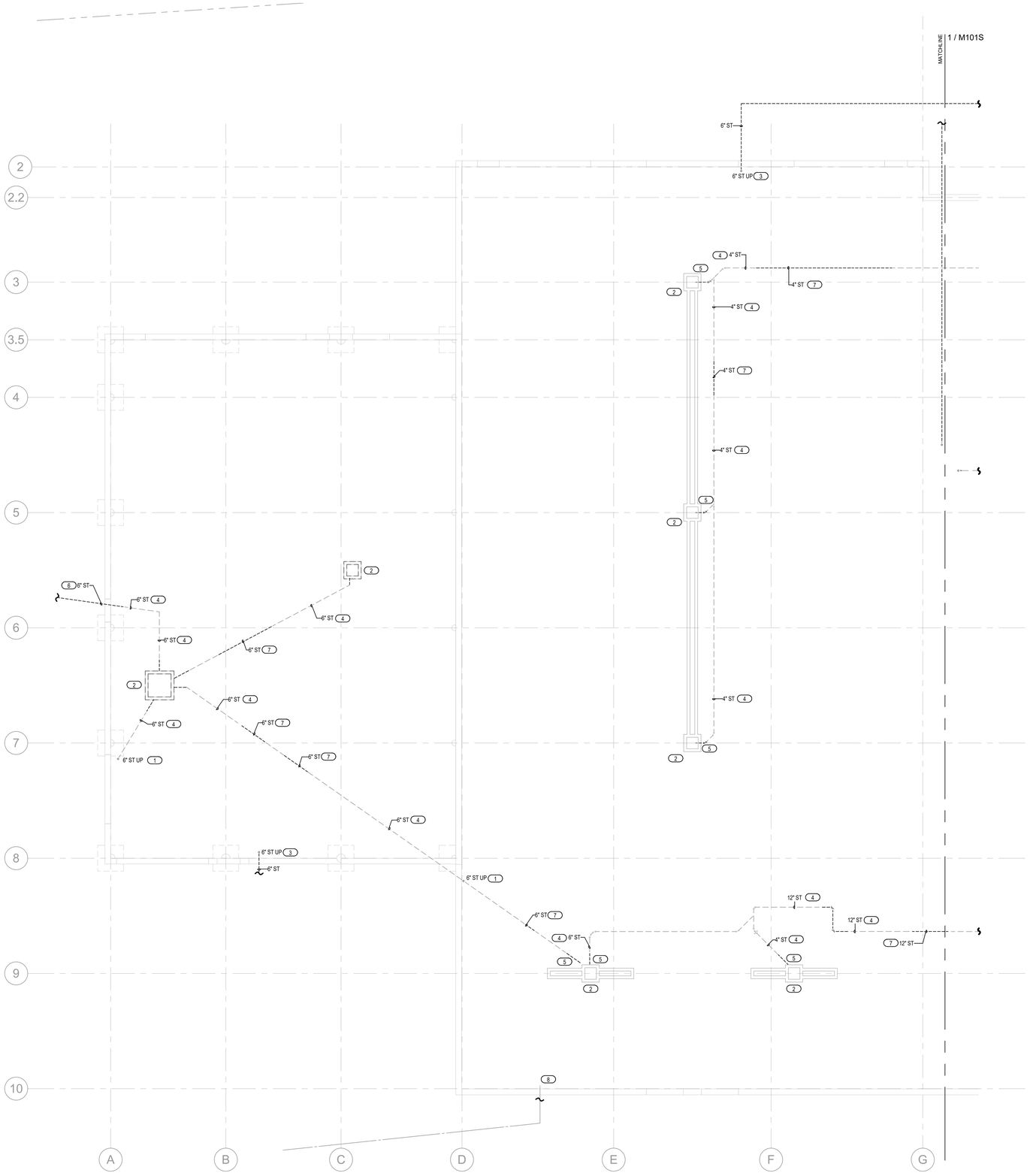

1 LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE SANITARY AND STORM SHALL PRIMARILLY BE ABANDONED IN PLACE. ALL SUCH SHALL BE PROPERLY CAPPED OR PLUGGED TO ENSURE NO CONNECTION TO NEW OR EXTERIOR SYSTEMS, AND NO DEAD-ENDS.
B. REFER TO NEW PLANS FOR NEW WORK. WHERE NEW PIPING CROSSES ABANDONED, CAP OFF ON EITHER SIDE, AS SHOWN (SEE NEW PLAN). VERIFY ALL SUCH IN FIELD.
C. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.

KEYED NOTES

1. EXISTING STORM UP FROM BELOW GRADE. CONTRACTOR SHALL DEMOLISH AS : REMOVE STORM TO BELOW FLOOR (REMOVE FLOOR AS NECESSARY). CAP OFF LINE BELOW GRADE AND ABANDON. IN-FILL AND PATCH BY GENERAL CONTRACTOR. SEE ARCHITECTURAL.
2. EXISTING TRENCH DRAIN OR CATCH BASIN. REFER TO PD101N FOR SCOPE OF WORK.
3. REMOVE EXISTING 6" STORM UP AND EXISTING 6" STORM TO EXTERIOR. WORK WITHIN 5' OF BUILDING BY PLUMBING CONTRACTOR, WORK BEYOND BY SITE CONTRACTOR.
4. EXISTING BELOW GRADE SANITARY OR STORM TO BE ABANDONED IN PLACE. REFER TO GENERAL NOTES.
5. EXISTING CONNECTION TO TRENCH DRAIN TO BE REMOVED.
6. REMOVE EXISTING 6" STORM TO EXTERIOR. WORK WITHIN 5' OF BUILDING BY PLUMBING CONTRACTOR, WORK BEYOND BY SITE CONTRACTOR.
7. EXISTING STORM / SANITARY TO BE REMOVED IN THIS APPROXIMATE LOCATION TO ALLOW NEW PIPING TO BE INSTALLED. ABANDONED PIPE SHALL BE CAPPED. REFER TO NEW PLANS.
8. EXISTING 1" CW UNDERGROUND PIPING SERVING EXTERIOR REFUELING STATION TO REMAIN. REFER TO PD101N FOR REMOVAL OF 1" CW ABOVE 1ST FLOOR TO ALLOW RECONNECTION INTO NEW SYSTEM. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.

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PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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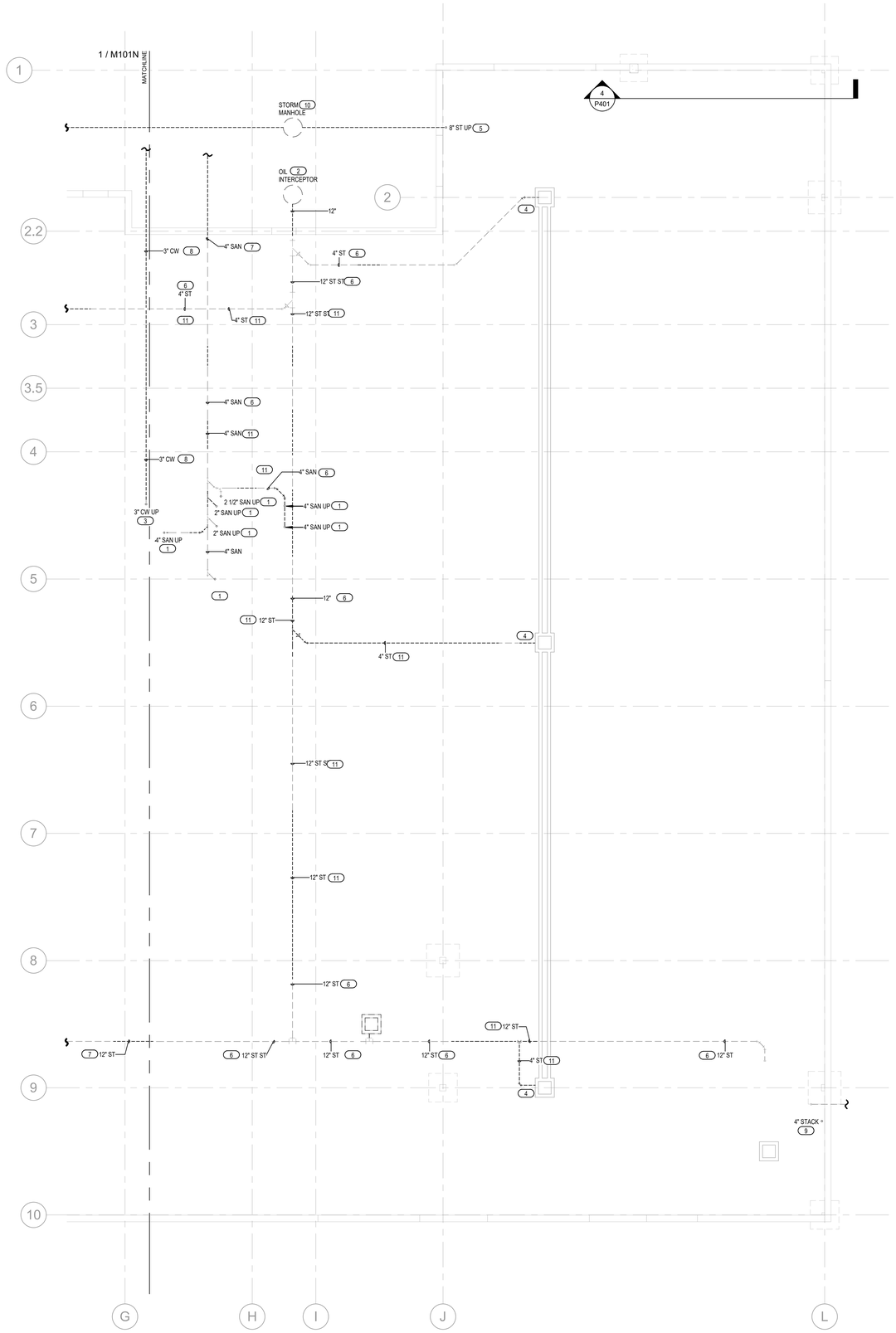
LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - NORTH

PD100N



1 LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE SANITARY AND STORM SHALL PRIMARILLY BE ABANDONED IN PLACE. ALL SUCH SHALL BE PROPERLY CAPPED OR PLUGGED TO ENSURE NO CONNECTION TO NEW OR EXTERIOR SYSTEMS, AND NO DEAD-ENDS.
B. REFER TO NEW PLANS FOR NEW WORK. WHERE NEW PIPING CROSSES ABANDONED, CAP OFF ON EITHER SIDE, AS SHOWN (SEE NEW PLAN). VERIFY ALL SUCH IN FIELD.
C. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.

KEYED NOTES

1. EXISTING SANITARY UP FROM BELOW GRADE. CONTRACTOR SHALL DEMOLISH AS : REMOVE SANITARY TO BELOW FLOOR (REMOVE FLOOR AS NECESSARY). CAP OFF LINE BELOW GRADE AND ABANDON. IN-FILL AND PATCH BY GENERAL CONTRACTOR. SEE ARCHITECTURAL.
2. REMOVE EXISTING OIL INTERCEPTOR AND ASSOCIATED PIPING AT UNIT. CAP OFF LINE BELOW GRADE AND ABANDON. IN-FILL AND PATCH BY GENERAL CONTRACTOR. SEE ARCHITECTURAL.
3. EXISTING DOMESTIC COLD WATER UP FROM BELOW GRADE. CONTRACTOR SHALL DEMOLISH AS : REMOVE COLD WATER TO BELOW FLOOR (REMOVE FLOOR AS NECESSARY). CAP OFF LINE BELOW GRADE AND ABANDON. IN-FILL AND PATCH BY GENERAL CONTRACTOR. SEE ARCHITECTURAL.
4. EXISTING CONNECTION TO TRENCH DRAIN TO BE REMOVED. REFER TO PD101S FOR DIRECTION RELATED TO THE TRENCH DRAIN ITSELF.
5. REMOVE EXISTING 8" STORM UP AND EXISTING 6" STORM TO EXTERIOR. WORK WITHIN 5' OF BUILDING BY PLUMBING CONTRACTOR, WORK BEYOND BY SITE CONTRACTOR.
6. EXISTING BELOW GRADE SANITARY OR STORM TO BE ABANDONED IN PLACE. REFER TO GENERAL NOTES.
7. REMOVE EXISTING 4" SANITARY TO EXTERIOR. WORK WITHIN 5' OF BUILDING BY PLUMBING CONTRACTOR, WORK BEYOND BY SITE CONTRACTOR.
8. REMOVE EXISTING 3" DOMESTIC COLD WATER TO EXTERIOR. WORK WITHIN 5' OF BUILDING BY PLUMBING CONTRACTOR, WORK BEYOND BY SITE CONTRACTOR.
9. EXISTING 4" STACK UP FROM BELOW GRADE. CONTRACTOR SHALL DEMOLISH AS : REMOVE STACK TO BELOW FLOOR (REMOVE FLOOR AS NECESSARY). CAP OFF LINE BELOW GRADE AND ABANDON. IN-FILL AND PATCH BY GENERAL CONTRACTOR. SEE ARCHITECTURAL.
10. EXISTING STORM MANHOLE AND ASSOCIATED PIPING TO BE REMOVED.
11. EXISTING STORM / SANITARY TO BE REMOVED IN THIS APPROXIMATE LOCATION TO ALLOW NEW PIPING TO BE INSTALLED. ABANDONED PIPE SHALL BE CAPPED. REFER TO NEW PLANS.

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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LEVEL 1 PLUMBING BELOW GRADE DEMOLITION - SOUTH

PD100S

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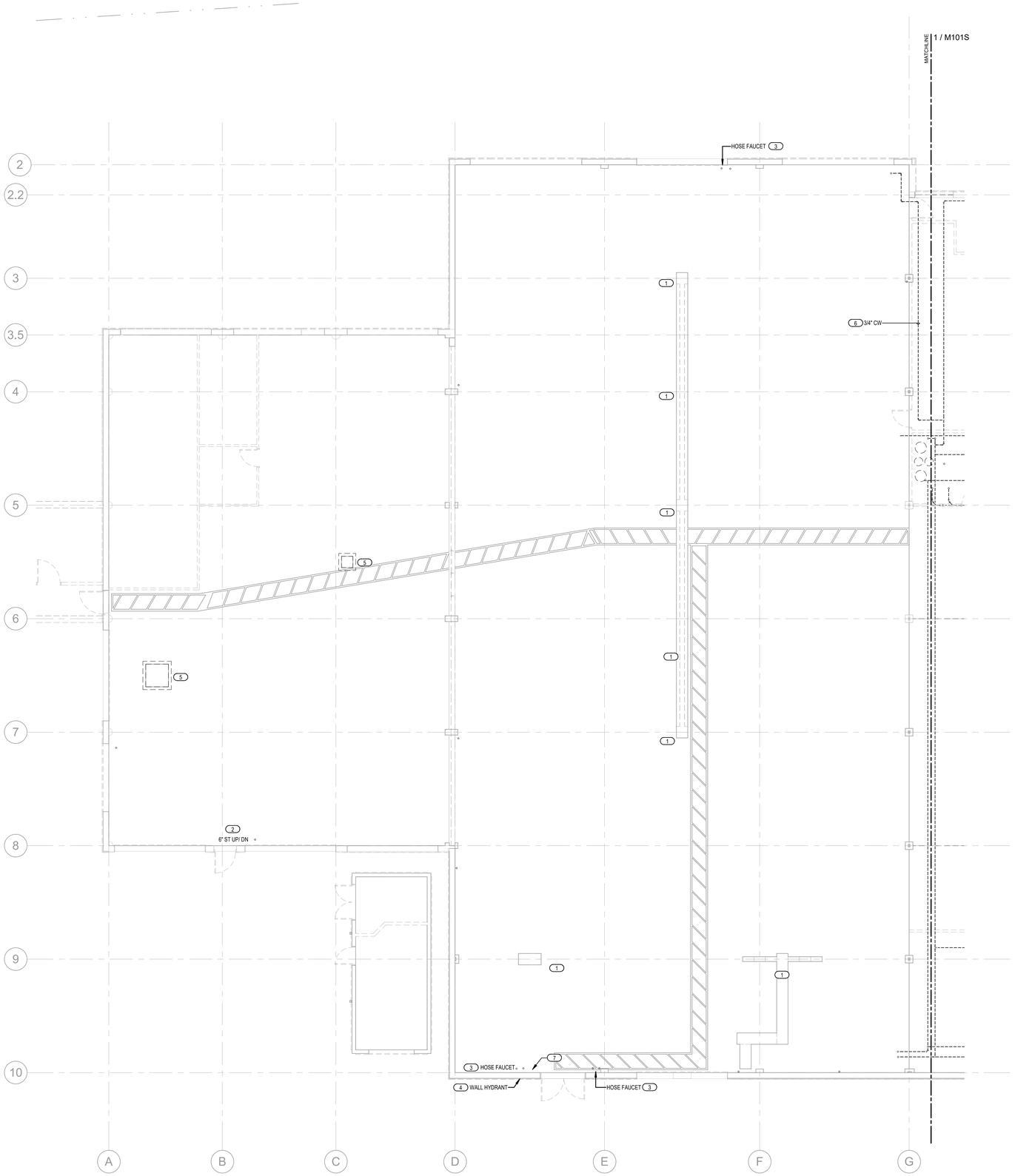

1 LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALL EXISTING ABOVE GRADE PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.

KEYED NOTES

1. EXISTING TRENCH DRAIN WITH TEMPORARY CONCRETE CAP. CAP TO BE REMOVED, DRAIN UNCONNECTED TO SANITARY, AND FILLED. CONTRACTOR SHALL CAP OFF EXISTING STORM CONNECTION (SEE BELOW GRADE PLAN); REMOVE AND DISCARD EXISTING GRATE.
2. REMOVE EXISTING RAINWATER / STORM PIPING AND ALL ASSOCIATED HANGERS.
3. EXISTING HOSE FAUCET AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
4. EXISTING WALL HYDRANT AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
5. EXISTING CATCH BASIN WITH TEMPORARY CONCRETE CAP TO BE REMOVED. CAP OFF ASSOCIATED PIPING BELOW GRADE. SEE BELOW GRADE FLOOR PLAN.
6. REMOVE EXISTING DOMESTIC COLD WATER PIPING AND ALL ASSOCIATED HANGERS.
7. EXISTING 1" CW SERVING EXTERIOR REFUELING STATION. ALL DOWNSTREAM PIPING HIGHER THAN 6" ABOVE GRADE SHALL BE REMOVED. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL PIPING. CONTRACTOR SHALL CAP PIPING UNTIL RECONNECTION. REFER TO NEW PLANS FOR RECONNECTION INTO NEW SYSTEM.

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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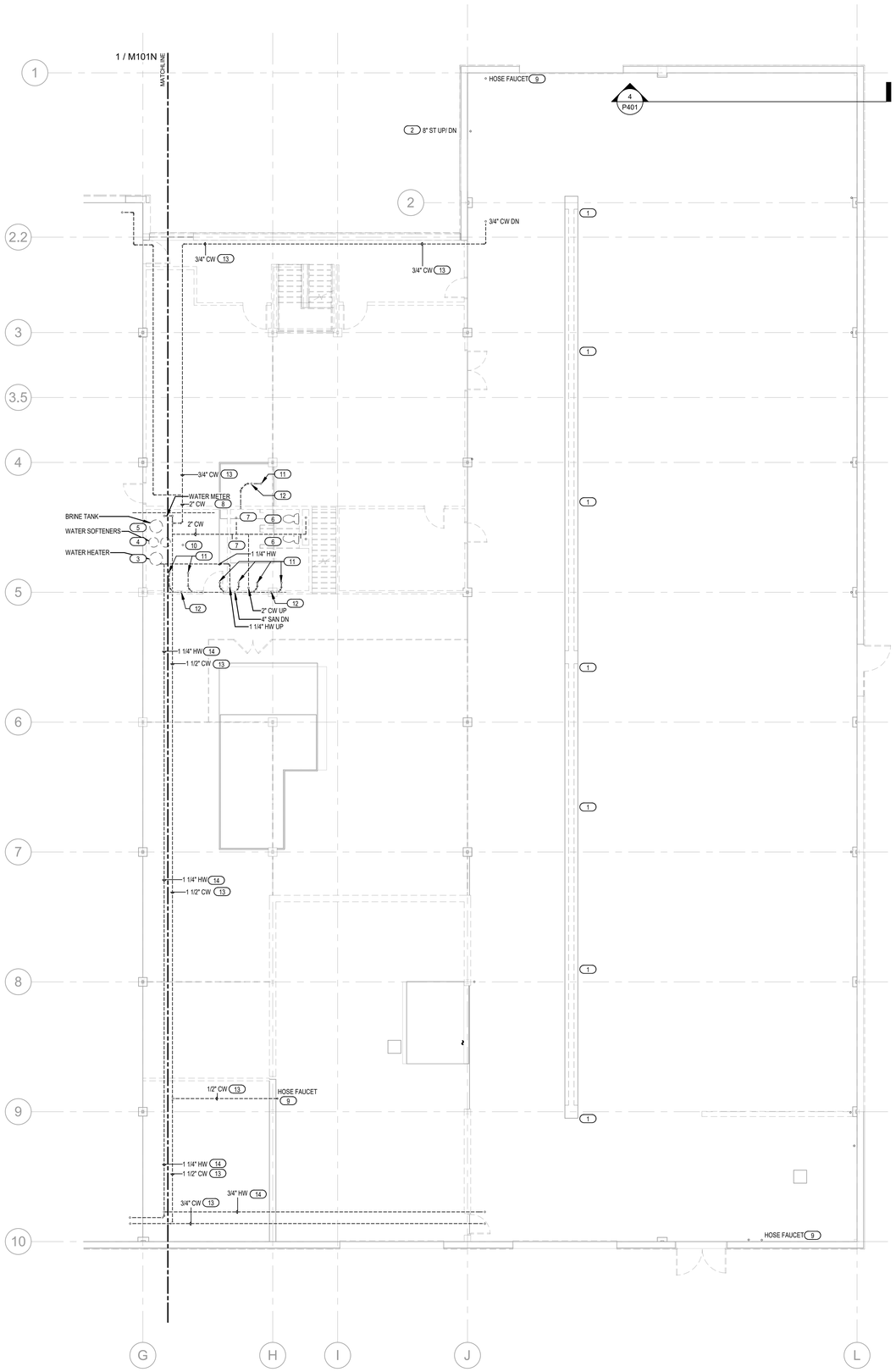
LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - NORTH

PD101N



1 LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALLL EXISTING ABOVE GRADE PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.

KEYED NOTES

1. EXISTING TRENCH DRAIN WITH TEMPORARY CONCRETE CAP; CAP TO BE REMOVED, DRAIN UNCONNECTED TO SANITARY, AND FILLED. CONTRACTOR SHALL CAP OFF EXISTING STORM CONNECTION (SEE BELOW GRADE PLAN); REMOVE AND DISCARD EXISTING GRATE.
2. REMOVE EXISTING RAINWATER / STROM PIPING AND ALL ASSOCIATED HANGERS.
3. EXISTING WATER HEATER AND ASSOCIATED PIPING, HANGERS, AND CONTROLS TO BE REMOVED.
4. EXISTING WATER SOFTENER AND ASSOCIATED PIPING, HANGERS, AND CONTROLS TO BE REMOVED.
5. EXISTING BRINE TANK AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
6. EXISTING WATER CLOSET AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
7. EXISTING URINAL AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
8. EXISTING WATER METER TO BE REMOVED AND REPLACED WITH NEW. REFER TO P101S FOR NEW METER LOCATION.
9. EXISTING HOSE FAUCET AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
10. EXISTING FLOOR DRAIN AND ASSOCIATED PIPING TO BE REMOVED.
11. EXISTING SANITARY IN CEILING SPACE UP TO MEZZANINE RESTROOM.
12. EXISTING VENT IN CEILING SPACE UP TO MEZZANINE RESTROOM.
13. REMOVE EXISTING DOMESTIC COLD WATER PIPING AND ALL ASSOCIATED HANGERS.
14. REMOVE EXISTING DOMESTIC HOT WATER PIPING AND ALL ASSOCIATED HANGERS.

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LEVEL 1 PLUMBING ABOVE GRADE DEMOLITION - SOUTH

PD101S

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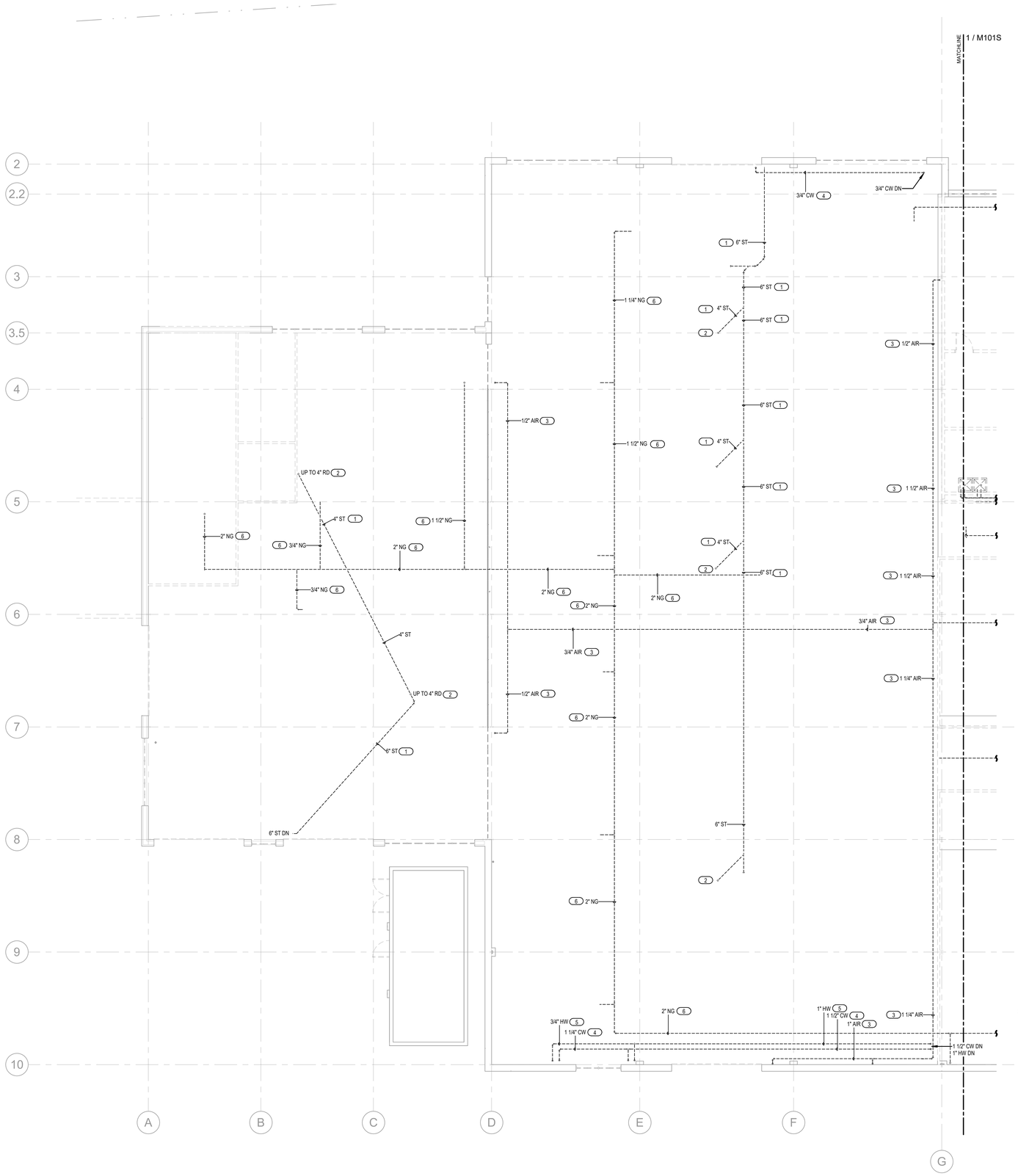

1 MEZZANINE PLUMBING DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALLL EXISTING ABOVE GRADE PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.

KEYED NOTES

1. REMOVE EXISTING RAINWATER / STORM PIPING AND ALL ASSOCIATED HANGERS.
2. EXISTING STORM CONNECTION TO EXISTING 4" PRIMARY ROOF DRAIN. ROOF DRAIN AND STORM PIPING TO BE REMOVED. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION, AS NEEDED. SEE NEW PLAN.
3. REMOVE EXISTING COMPRESSED AIR PIPING AND ALL ASSOCIATED HANGERS.
4. REMOVE EXISTING DOMESTIC COLD WATER PIPING AND ALL ASSOCIATED HANGERS.
5. REMOVE EXISTING DOMESTIC HOT WATER PIPING AND ALL ASSOCIATED HANGERS.
6. REMOVE EXISTING GAS PIPING AND ALL ASSOCIATED HANGERS.

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Signature

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MEZZANINE
PLUMBING
DEMOLITION - NORTH

PD102N

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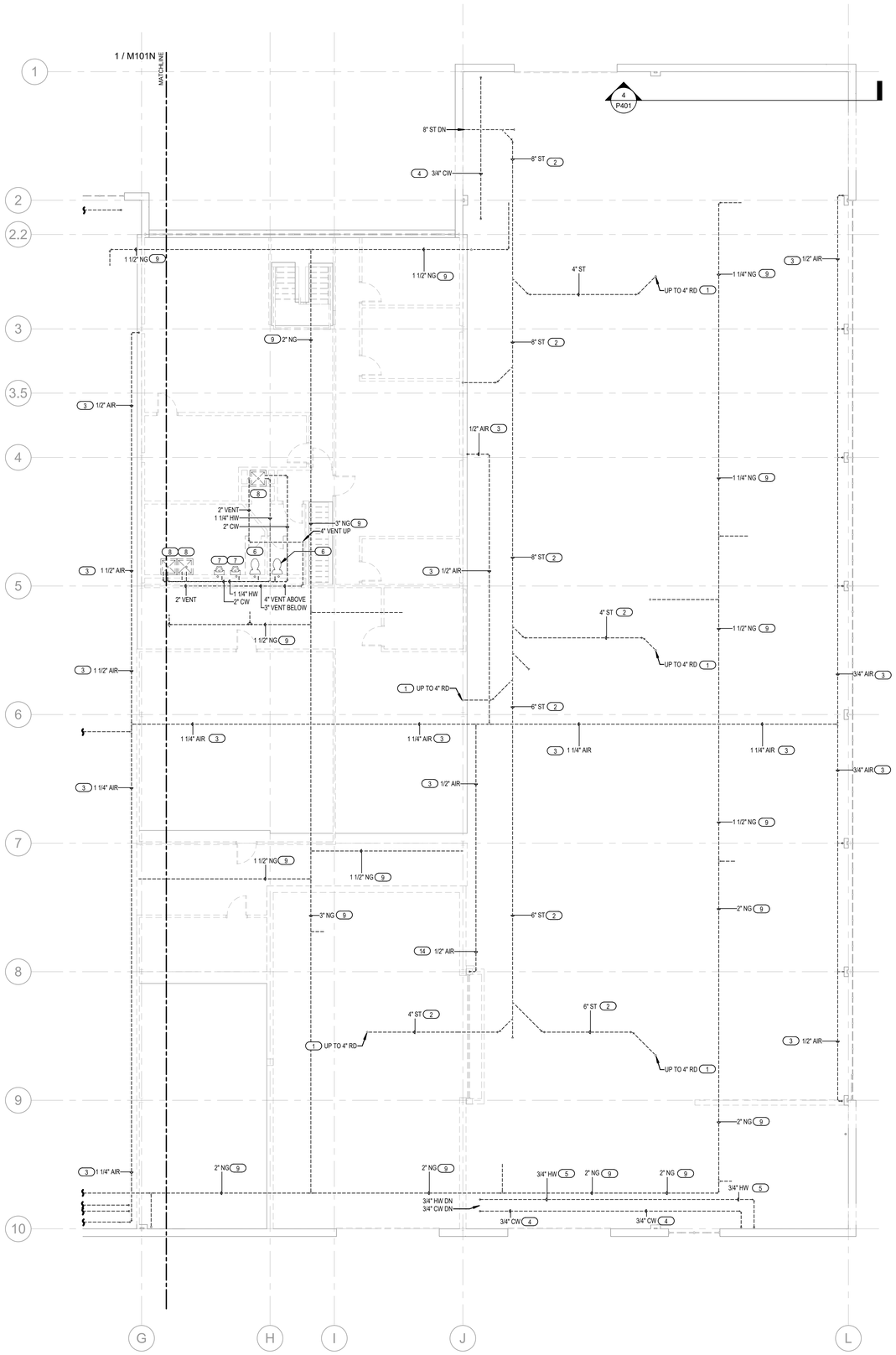

1 MEZZANINE PLUMBING DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALLL EXISTING ABOVE GRADE PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.

KEYED NOTES

1. EXISTING STORM CONNECTION TO EXISTING PRIMARY ROOF DRAIN. ROOF DRAIN AND STORM PIPING TO BE REMOVED. CONTRACTOR SHALL PROVIDE FOR TEMPORARY DRAINAGE DURING CONSTRUCTION, AS NEEDED.
2. REMOVE EXISTING RAINWATER / STROM PIPING AND ALL ASSOCIATED HANGERS.
3. REMOVE EXISTING COMPRESSED AIR PIPING AND ALL ASSOCIATED HANGERS.
4. REMOVE EXISTING DOMESTIC COLD WATER PIPING AND ALL ASSOCIATED HANGERS.
5. REMOVE EXISTING DOMESTIC HOT WATER PIPING AND ALL ASSOCIATED HANGERS.
6. EXISTING WATER CLOSET AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
7. EXISTING URINAL AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
8. EXISTING SHOWER AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED.
9. REMOVE EXISTING GAS PIPING AND ALL ASSOCIATED HANGERS.

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MEZZANINE
PLUMBING
DEMOLITION - SOUTH

PD102S

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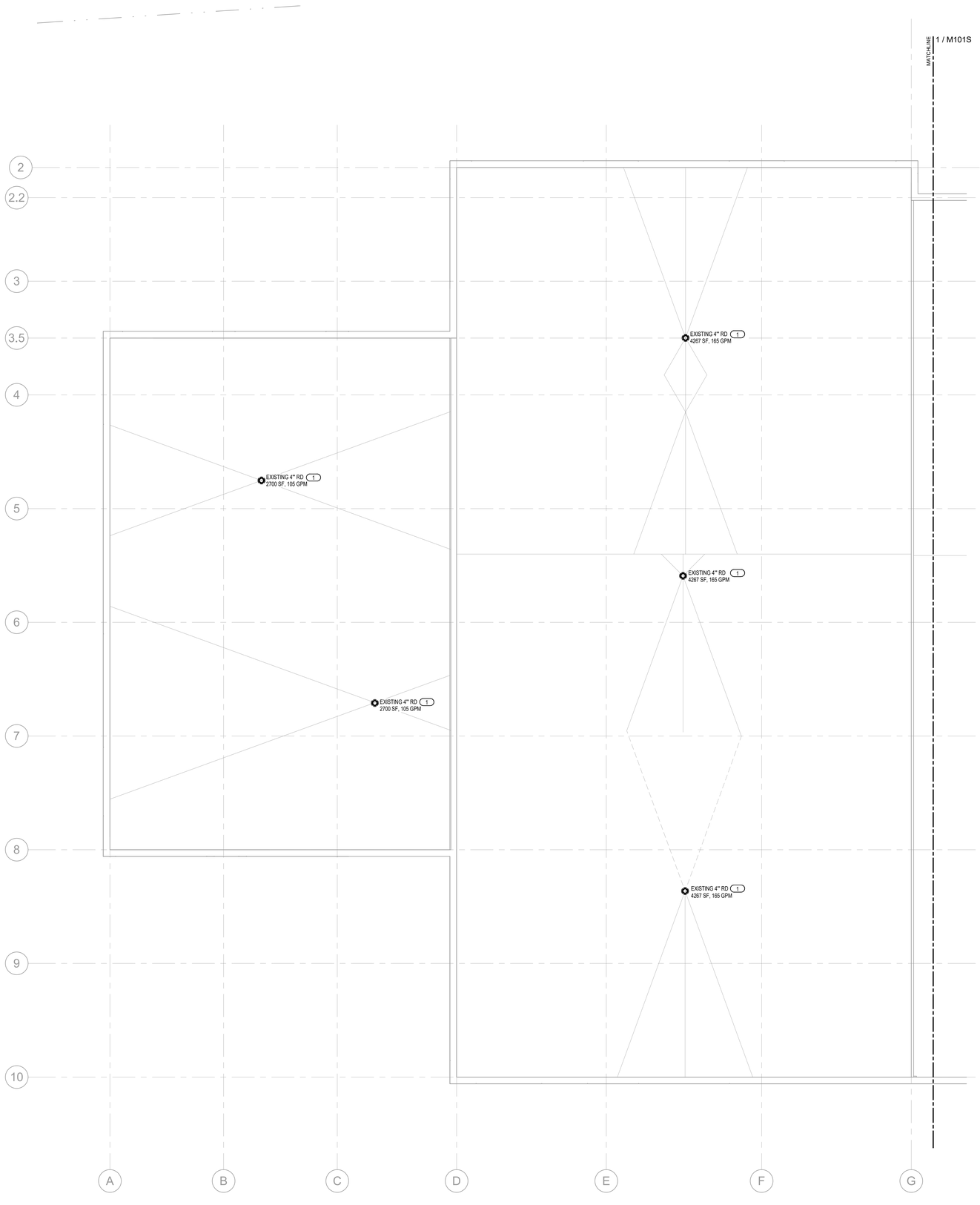

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALLL EXISTING AG PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.
C. EXISTING VENTS THROUGH ROOF NOT SHOWN. ALL SUCH TO BE CAPPED. (AT CONTRACTOR DISCRETION, RE-USE ALLOWED IF SIZE ALLOWS; SEE NEW PLAN).

KEYED NOTES

(1) EXISTING ROOF DRAIN AND ASSOCIATED PIPING TO BE REMOVED. ROOF SHALL BE PATCHED IF NEW ROOF DRAIN IS NOT INSTALLED IN SAME LOCATION. REFER TO M103N.

1 ROOF PLUMBING DEMOLITION - NORTH

1/8" = 1'-0"

PROJECT NORTH

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Commercial Kitchen Design

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MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

Project No: MTG.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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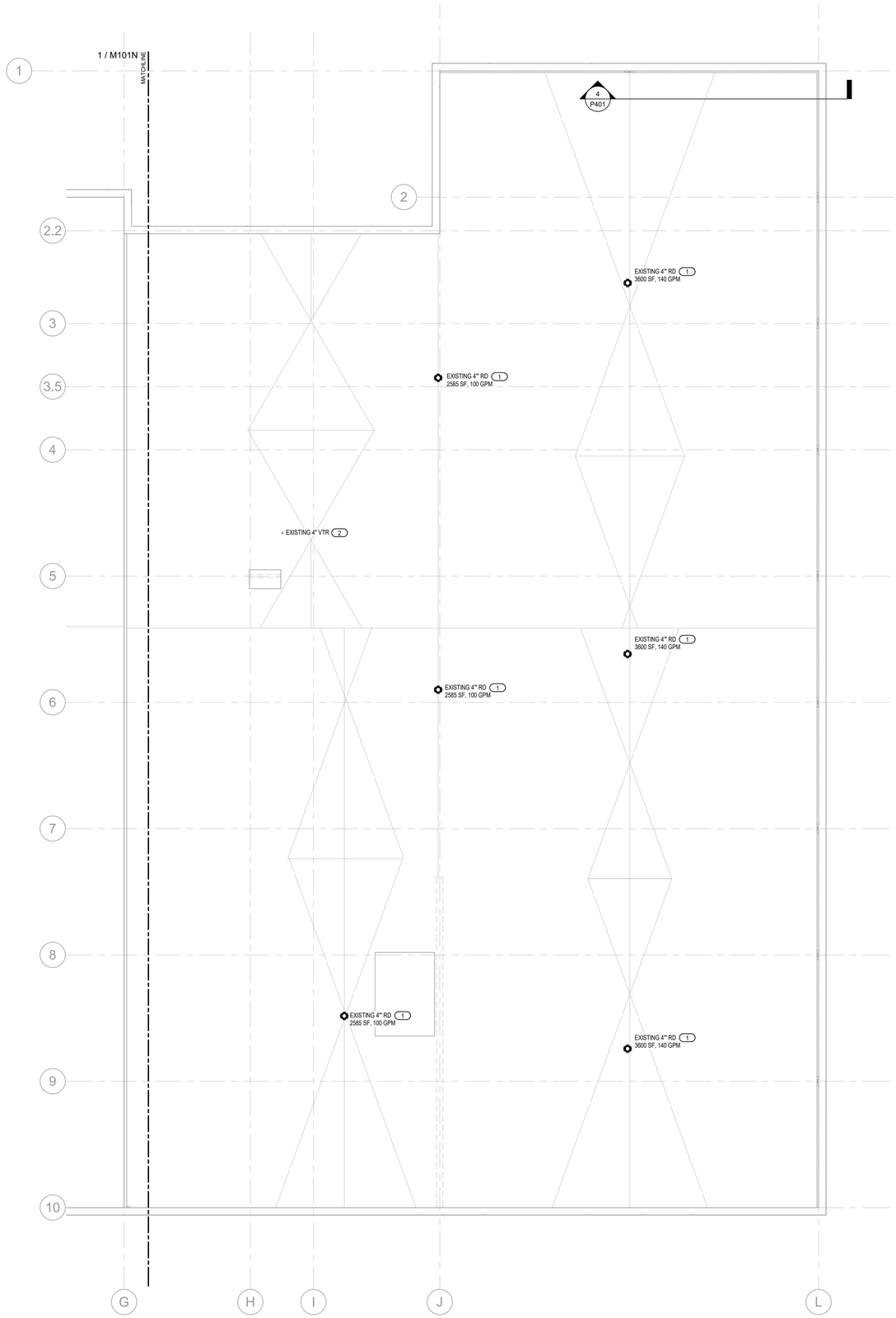
ROOF PLUMBING DEMOLITION - NORTH

PD103N



1 ROOF PLUMBING DEMOLITION - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. EXISTING PIPING / EQUIPMENT SHOWN BOLD. DASHED IS TO BE REMOVED.
B. ALLL EXISTING AG PLUMBING SHALL BE REMOVED, INCLUDING: COMPRESSED AIR, DOMESTIC WATER (HOT, COLD, AND RECIRC), STORM, SANITARY, AND VENT. ALL ASSOCIATED HANGERS SHALL BE REMOVED.
C. EXISTING VENTS THROUGH ROOF NOT SHOWN. ALL SUCH TO BE CAPPED. (AT CONTRACTOR DISCRETION. RE-USE ALLOWED IF SIZE ALLOWS; SEE NEW PLAN).

KEYED NOTES

1 EXISTING ROOF DRAIN AND ASSOCIATED PIPING TO BE REMOVED. ROOF SHALL BE PATCHED IF NEW ROOF DRAIN IS NOT INSTALLED IN SAME LOCATION. REFER TO M103N.

2 EXISTING VTR AND ASSOCIATED PIPING AND HANGERS TO BE REMOVED. COORDINTATE ROOF PATCHING WITH GENERAL CONTRACTOR. NOT ALL VENTS THROUGH ROOF ARE SHOWN. RMOVE ALL SUCH.

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Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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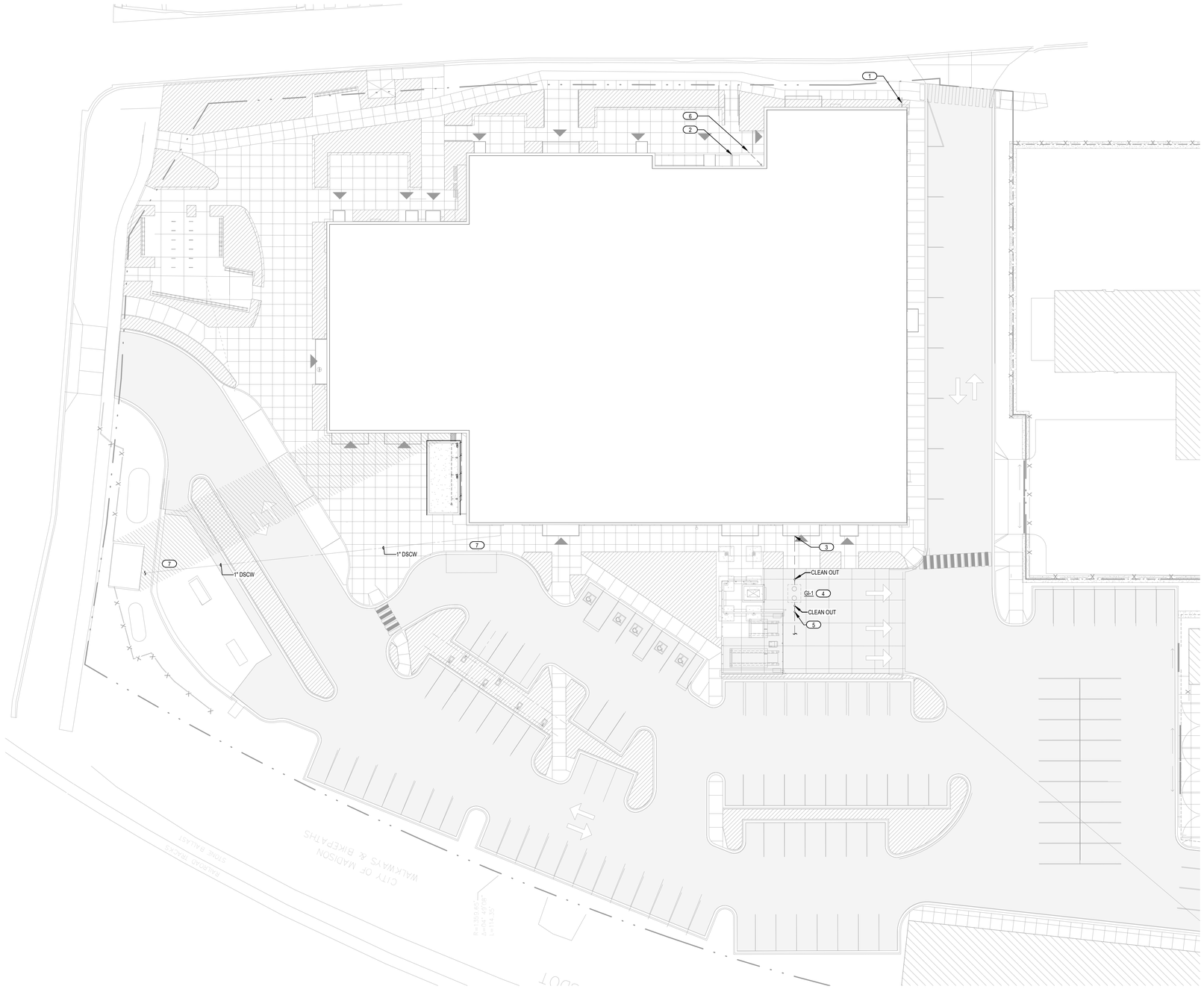
ROOF PLUMBING
DEMOLITION - SOUTH

PD103S



1 PLUMBING SITE PLAN

1" = 20'-0"

PROJECT NORTH

GENERAL NOTES

A. REFER TO SITE UTILITY PLANS AND COORDINATE ALL WORK WITH UTILITIES AND UTILITY CONTRACTORS.
B. NATURAL GAS SHOWN ON MECHANICAL PLANS.

KEYED NOTES

1. NEW 3" DEDICATED DOMESTIC COLD WATER SERVICE AT 6.75' BELOW FINISHED FLOOR. (SEE FIRE PROTECTION PLANS FOR SPRINKLER SERVICE). SIZE PER CALCULATIONS, SHEET P001. PLUMBING CONTRACTOR RESPONSIBLE FOR WORK WITHIN 5' - 0" OF BUILDING; WORK BEYOND IS BY SITE UTILITY CONTRACTOR.
2. NEW 4" SANITARY LINE EXITS BUILDING AT 4' BELOW FINISHED FLOOR. PLUMBING CONTRACTOR RESPONSIBLE FOR WORK WITHIN 5' - 0" OF BUILDING; WORK BEYOND IS BY SITE UTILITY CONTRACTOR.
3. NEW 4" SANITARY GREASE LINE EXITS BUILDING AT 5' BELOW FINISHED FLOOR. PLUMBING CONTRACTOR RESPONSIBLE FOR WORK WITHIN 5' - 0" OF BUILDING; WORK BEYOND IS BY SITE UTILITY CONTRACTOR.
4. 1000 - GALLON GREASE INTERCEPTOR, GI-1, BY PLUMBING CONTRACTOR. INLET INVERT AT 5'-4" BELOW GRADE. REFER TO DETAIL. PLUMBING CONTRACTOR RESPONSIBLE TO 5' - 0" BEYOND INTERCEPTOR OUTLET; SITE UTILITY CONTRACTOR SHALL CONNECT FROM THERE.
5. 2" GREASE INTERCEPTOR VENT. VENT TO ROUTE UP ENCLOSURE WALL AND NEXT TO CANOPY SUPPORT AND TERMINATE ABOVE CANOPY. REFER TO DETAIL 4 / P501.
6. NEW 8" STORM LINE EXITS BUILDING AT 4.5' BELOW FINISHED FLOOR. PLUMBING CONTRACTOR RESPONSIBLE FOR WORK WITHIN 5' - 0" OF BUILDING; WORK BEYOND IS BY SITE UTILITY CONTRACTOR.
7. APPROXIMATE LOCATION OF EXISTING 1" DSCW LINE TO FUELING DEPOT. CONTRACTOR SHALL CONFIRM EXACT LOCATION TO ENSURE NO DAMAGE DURING CONSTRUCTION. REFER TO PD101N FOR REMOVAL OF 1" CW ABOVE 1ST FLOOR TO ALLOW RECONNECTION INTO NEW SYSTEM.

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PLUMBING SITE PLAN

P010

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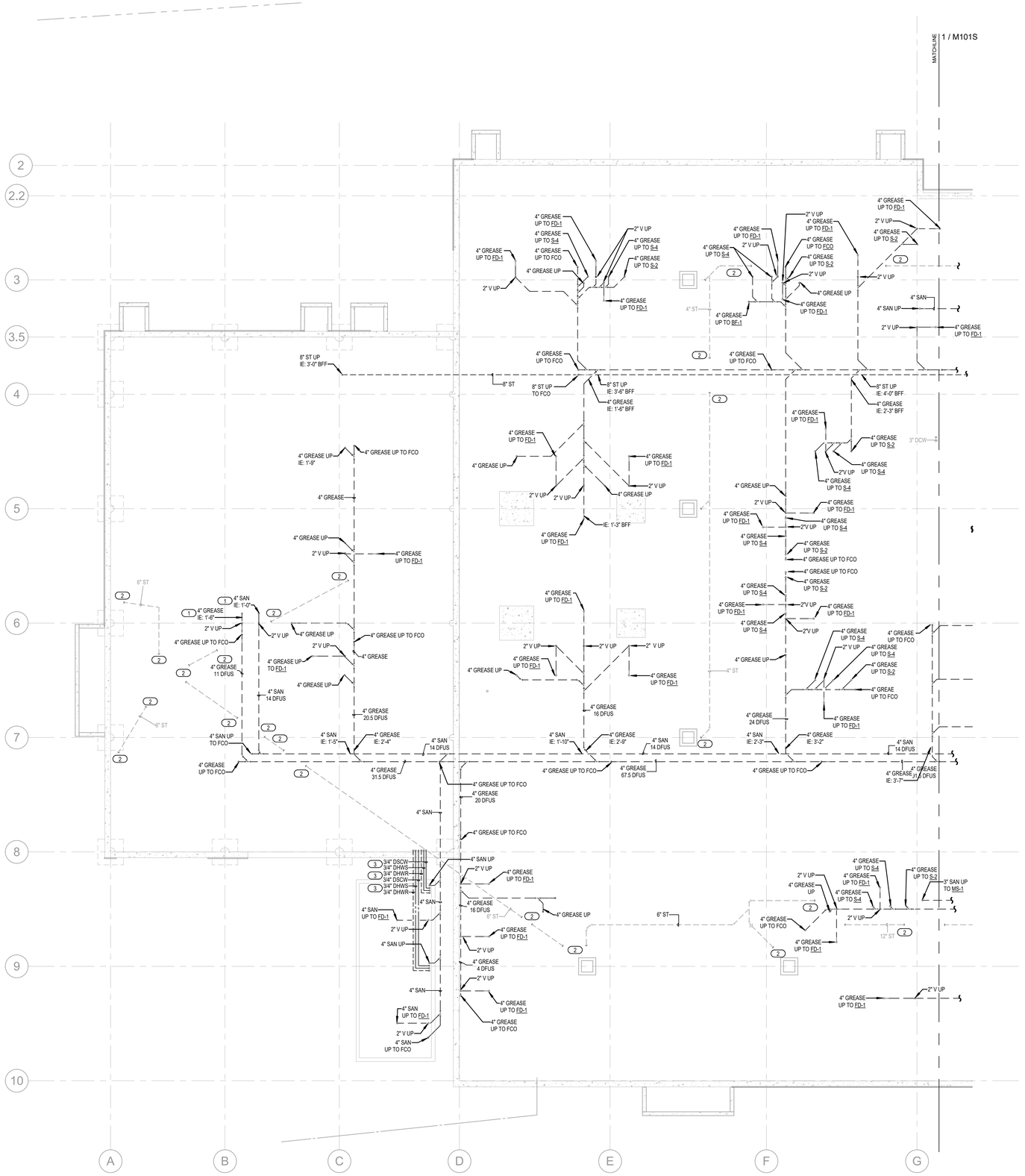

1 LEVEL 1 PLUMBING BELOW GRADE - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE PIPING SHOWN LIGHT - DASHED IS TO BE ABANDONED IN PLACE. CAP OFF AS REQUIRED, BELOW GRADE. BACKFILL BY PLUMBING CONTRACTOR. PATCH BY GENERAL CONTRACTOR.
B. ALL FOOD SERVICE AREA SANITARY SHALL BE GREASE - LADEN AND ROUTED TO EXTERIOR GREASE INTERCEPTOR, AS SHOWN.
C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

(1) EXTEND GREASE - LADEN SANITARY TO AREA OF FUTURE TENANT, AS SHOWN. DRAINAGE FIXTURE UNIT ALLOWANCE IS 11 DFUS FOR GREASE AND 14 DFUS FOR LADEN SANITARY. PROVIDE 2" VENT UP TO MAINTAIN LIVE LINE PRIOR TO FUTURE WORK / CONNECTION.

(2) CAP OFF SANITARY / STORM BELOW GRADE, PER GENERAL NOTE.

(3) DOMESTIC PIPING SHALL BE INSTALLED AT A SLOPE TO ALLOW WINTERIZATION.

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Engineer Seal

WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No. 22866-006

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LEVEL 1 PLUMBING BELOW GRADE - NORTH

P100N

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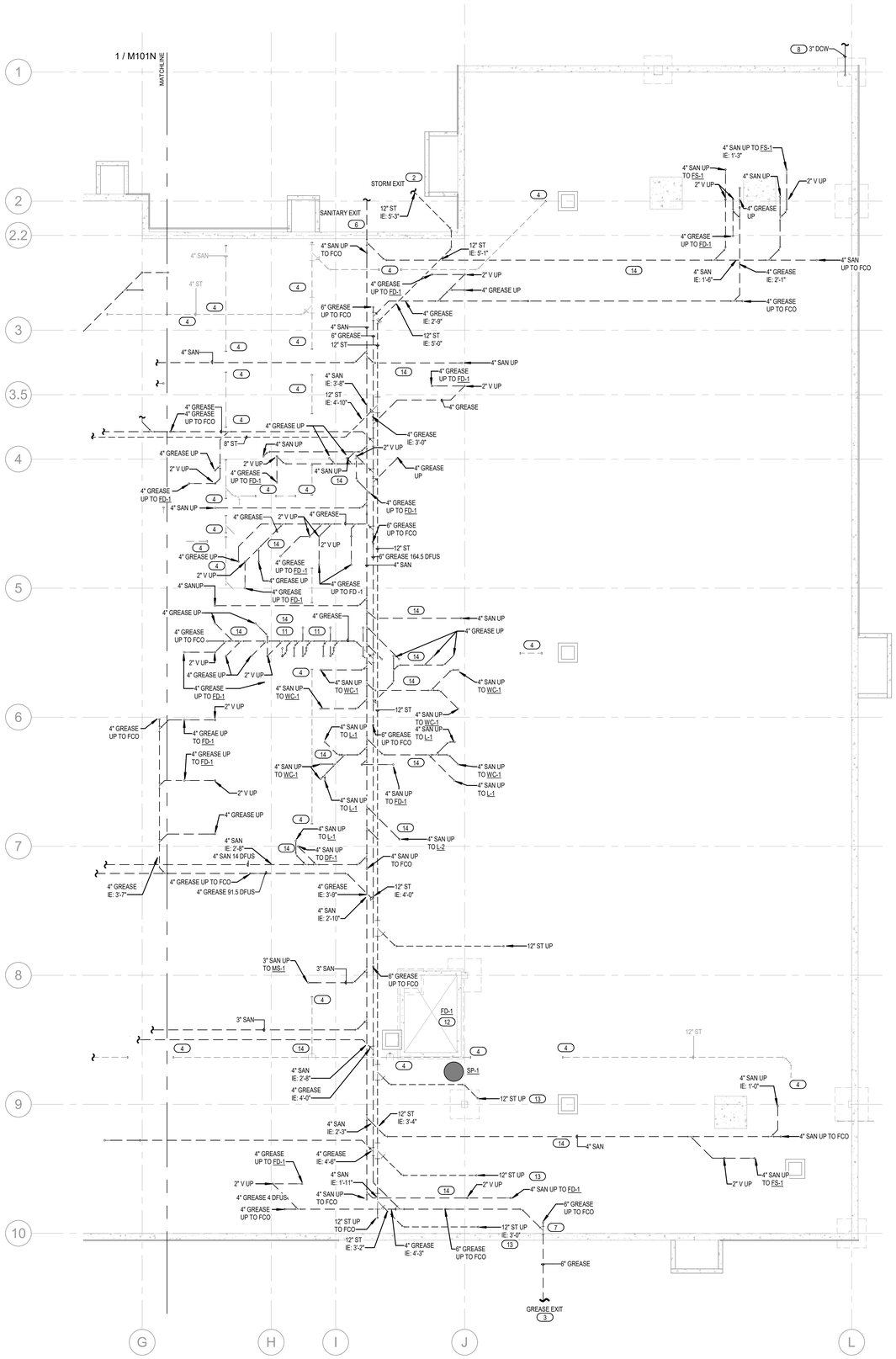

1 LEVEL 1 PLUMBING BELOW GRADE - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE PIPING SHOWN LIGHT - DASHED IS TO BE ABANDONED IN PLACE. CAP OFF AS REQUIRED, BELOW GRADE. BACKFILL BY PLUMBING CONTRACTOR. PATCH BY GENERAL CONTRACTOR.
B. ALL FOOD SERVICE AREA SANITARY SHALL BE GREASE - LADEN AND ROUTED TO EXTERIOR GREASE INTERCEPTOR, AS SHOWN.
C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

1. NOT USED.
2. 12" STORM EXITING BUILDING AT INVERT 4.5' BELOW FINISHED FLOOR. COORDINATE LOCATION WITH STRUCTURAL CONTRACTOR.
3. NEW 4" GREASE-LADEN SANITARY OUT TO NEW EXTERIOR GREASE INTERCEPTOR. ALL WORK BY THIS CONTRACTOR. SEE SITE PLAN, THIS SET.
4. CAP OFF SANITARY / STORM / COLD WATER BELOW GRADE, PER GENERAL NOTE.
5. NOT USED.
6. 4" SANITARY EXITING BUILDING AT INVERT 4' BELOW FINISHED FLOOR. COORDINATE LOCATION WITH STRUCTURAL CONTRACTOR.
7. 4" GREASE - LADEN SANITARY EXITING BUILDING AT INVERT 5' BELOW FINISHED FLOOR. COORDINATE LOCATION WITH STRUCTURAL CONTRACTOR.
8. 3" DOMESTIC COLD WATER EXITING BUILDING AT INVERT 6.75' BELOW FINISHED FLOOR. COORDINATE LOCATION WITH STRUCTURAL CONTRACTOR.
9. NOT USED.
10. NOT USED.
11. REFER TO RISER DIAGRAMS FOR CLARITY.
12. ELEVATOR PIT FLOOR DRAIN SHALL BE INSTALLED WITHOUT TRAP. REFER TO DUPLEX SUMP DETAIL.
13. STORM DRAIN PIPING TO BE CONNECTED TO CISTERN SYSTEM. CISTERN PROVIDED BY OTHERS. COORDINATE PRIOR TO START OF WORK.
14. ROUTE SANITARY/GREASE/STORM DRAIN PIPING SHALLOW;THEN, DROP DOWN TO CONNECT TO RESPECTIVE MAIN .

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MADISON PUBLIC MARKET

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Engineer Seal

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THOMAS BERNARD WEBER
E-22866-006
CHICAGO
IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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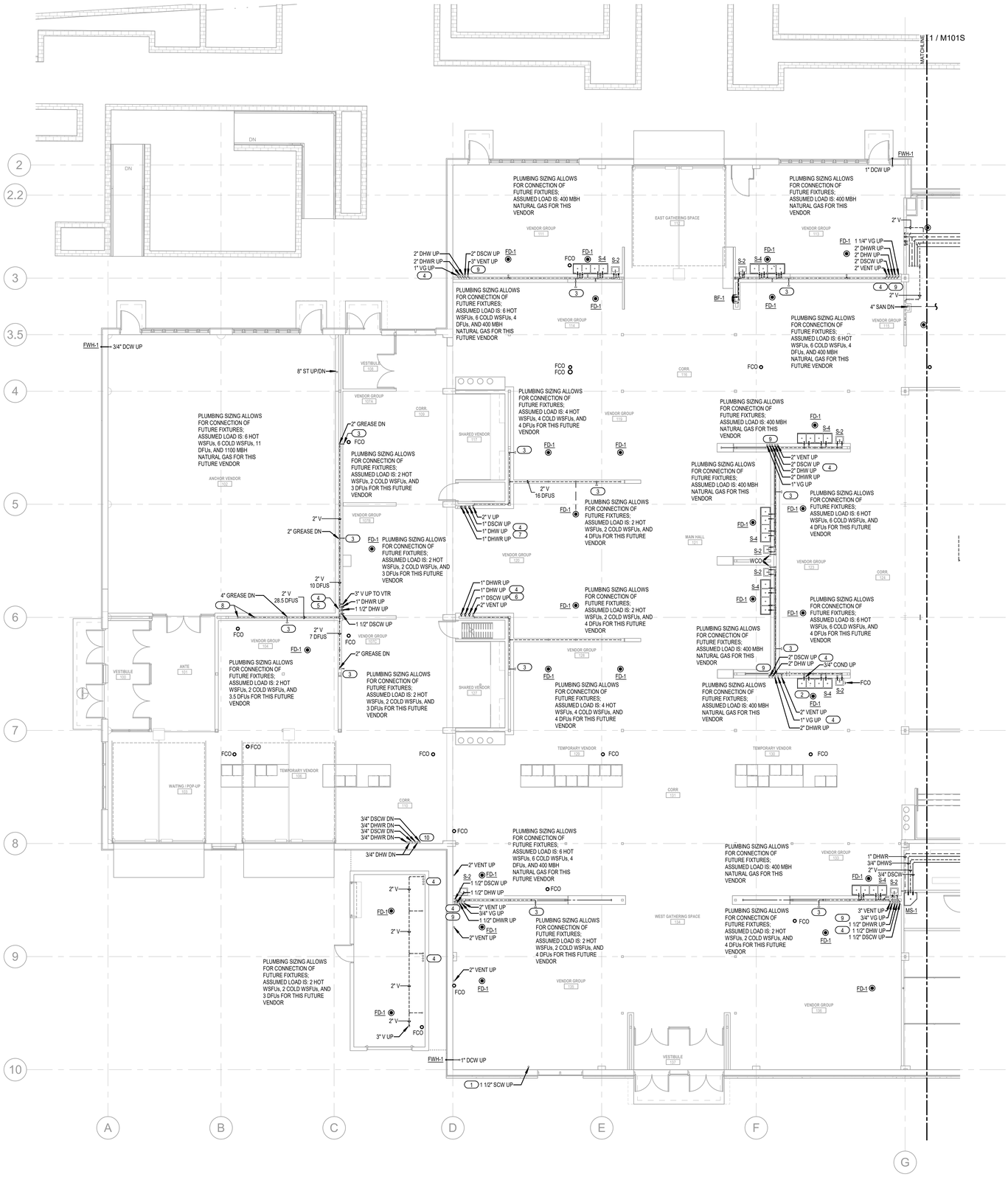
LEVEL 1 PLUMBING BELOW GRADE - SOUTH

P100S



GENERAL NOTES

A. BELOW GRADE PIPING SHOWN LIGHT - DASHED IS TO BE ABANDONED IN PLACE. CAP OFF AS REQUIRED, BELOW GRADE. BACKFILL BY PLUMBING CONTRACTOR. PATCH BY GENERAL CONTRACTOR.
B. ALL FOOD SERVICE AREA SANITARY SHALL BE GREASE - LADEN AND ROUTED TO EXTERIOR GREASE INTERCEPTOR, AS SHOWN.
C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

1. CONNECT EXISTING 1 1/2" CW SERVING EXTERIOR REFUELING STATION 6" ABOVE GRADE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION. ROUTE NEW PIPING PER PLANS.
2. CONDENSATE TO BE ROUTED ALONG FLOOR TO ALLOW DRAINING INTO THE FLOOR DRAIN NEARBY. PIPING SHALL BE INSTALLED TO PREVENT ANY INTERUPTION TO WORKING SPACE AT ASSOCIATED SINK.
3. SANITARY AND VENT PIPING SHOWN IS FOR FUTURE CONNECTION. CONTRACTOR SHALL PROVIDE CAPPED SANITARY STUB THROUGH WALL. REFER TO NOTE WITHIN SPECIFIC SPACE FOR MAX ALLOWED DFUS.
4. DOMESTIC WATER SUPPLY PIPING SHOWN FOR FUTURE CONNECTION. CONTRACTOR SHALL PROVIDE SHUTOFF VALVES. REFER TO NOTE WITHIN SPECIFIC SPACE(S) FOR MAX ALLOWED WSFUS.
5. DOMESTIC WATER SUPPLY PIPING SHOWN IS SIZED TO SERVE VENDOR GROUP 107A, 107B, 107C, AND 104.
6. DOMESTIC WATER SUPPLY PIPING SHOWN IS SIZED TO SERVE VENDOR GROUP 120 WEST AND 128.
7. DOMESTIC WATER SUPPLY PIPING SHOWN IS SIZED TO SERVE VENDOR GROUP 120 EAST AND 119.
8. CONTRACTOR SHALL PROVIDE WALL CLEANOUTS FOR PLUMBING SANITARY / VENT IN THIS APPROXIMATE LOCATION.
9. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES IN PIPING DROP ABOVE DEMISING WALLS TO ALLOW ACCESS FROM EITHER VENDOR SIDE. CONTRACTOR SHALL CONFIRM EXACT LOCATION WITH OWNER.
10. CONTRACTOR SHALL PROVIDE BLOWDOWN VALVES AT ACCESSIBLE HEIGHT AND UNDERGROUND PIPING SHALL BE INSTALLED AT A SLOPE TO ALLOW WINTERIZATION OF ALL (6) DOMESTIC PIPES.

1 LEVEL 1 PLUMBING ABOVE GRADE - NORTH

1/8" = 1'-0"

PROJECT NORTH

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LEVEL 1 PLUMBING ABOVE GRADE - NORTH

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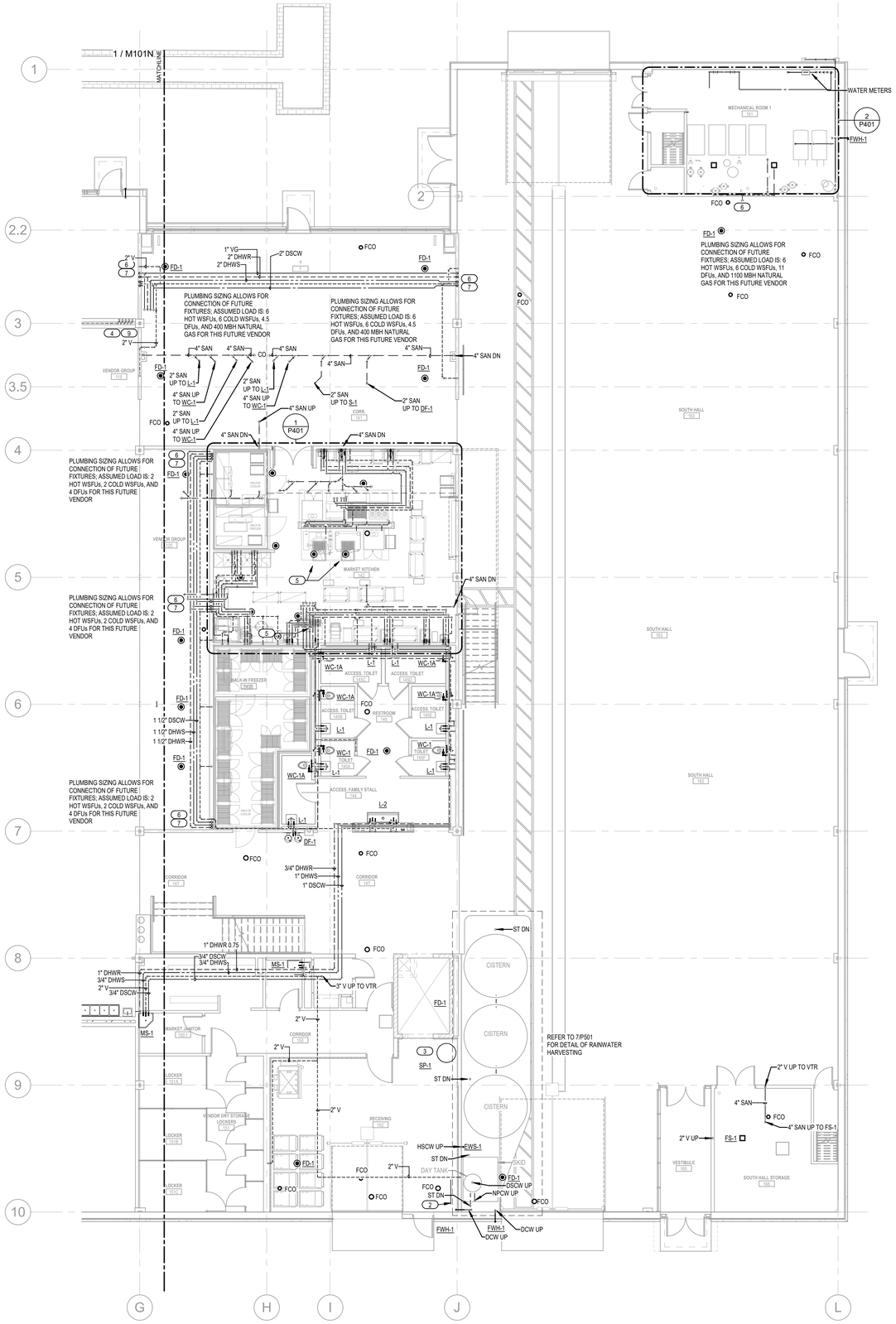

1 LEVEL 1 PLUMBING ABOVE GRADE - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

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C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

1. CONTRACTOR SHALL FURNISH NEW TRENCH DRAIN GRATE TO FIT EXISTING TRENCH, INCLUDING BASIN LOCATIONS.
2. ROUTE 6" PVC SLEEVE AS SHOWN. FOR LIFT HYDRUALIC LINES. HYDRUALIC LINES BY OTHERS. ALL CHANGES IN DIRECTION SHALL USE LONG RADIUS ELBOWS
3. ROUTE 2" VENT DIRECTLY TO OUTDOORS. CONNECTION TO BUILDING VENT SYSTYEM SHALL NOT BE PERMITTED. REFER TO DETAIL 1/P501 FOR SUMP PUMP.
4. PLUMBING EQUIPMENT FURNISHED BY OWNER. P-TRAP, GAS CONNECTIONS, AND DOMESTIC WATER CONNECTIONS PTOVIDED BY PLUMBING CONTRACTOR.
5. PLUMBING CONTRACTOR TO CONNECT TO TRENCH PROVIDED BY FOOD SERVICE CONTRACTOR IN THIS APPROXIMATE LOCATION. FSEC TO FURNISH FLOOR TROUGH. PLUMBING CONTRACTOR TO INSTALL.
6. SANITARY AND VENT PIPING SHOWN IS FOR FUTURE CONNECTION. CONTRACTOR SHALL PROVIDE CAPPED SANITARY STUB THROUGH WALL. REFER TO NOTE WITHIN SPECIFIC SPACE FOR MAX ALLOWED DFUS.
7. DOMESTIC WATER SUPPLY PIPING SHOWN FOR FUTURE CONNECTION. CONTRACTOR SHALL PROVIDE SHUTOFF VALVES AT ACCESSIBLE HEIGHT WITHIN WALL CAVITY. REFER TO NOTE WITHIN SPECIFIC SPACE(S) FOR MAX ALLOWED WSFUS.

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LEVEL 1 PLUMBING ABOVE GRADE - SOUTH

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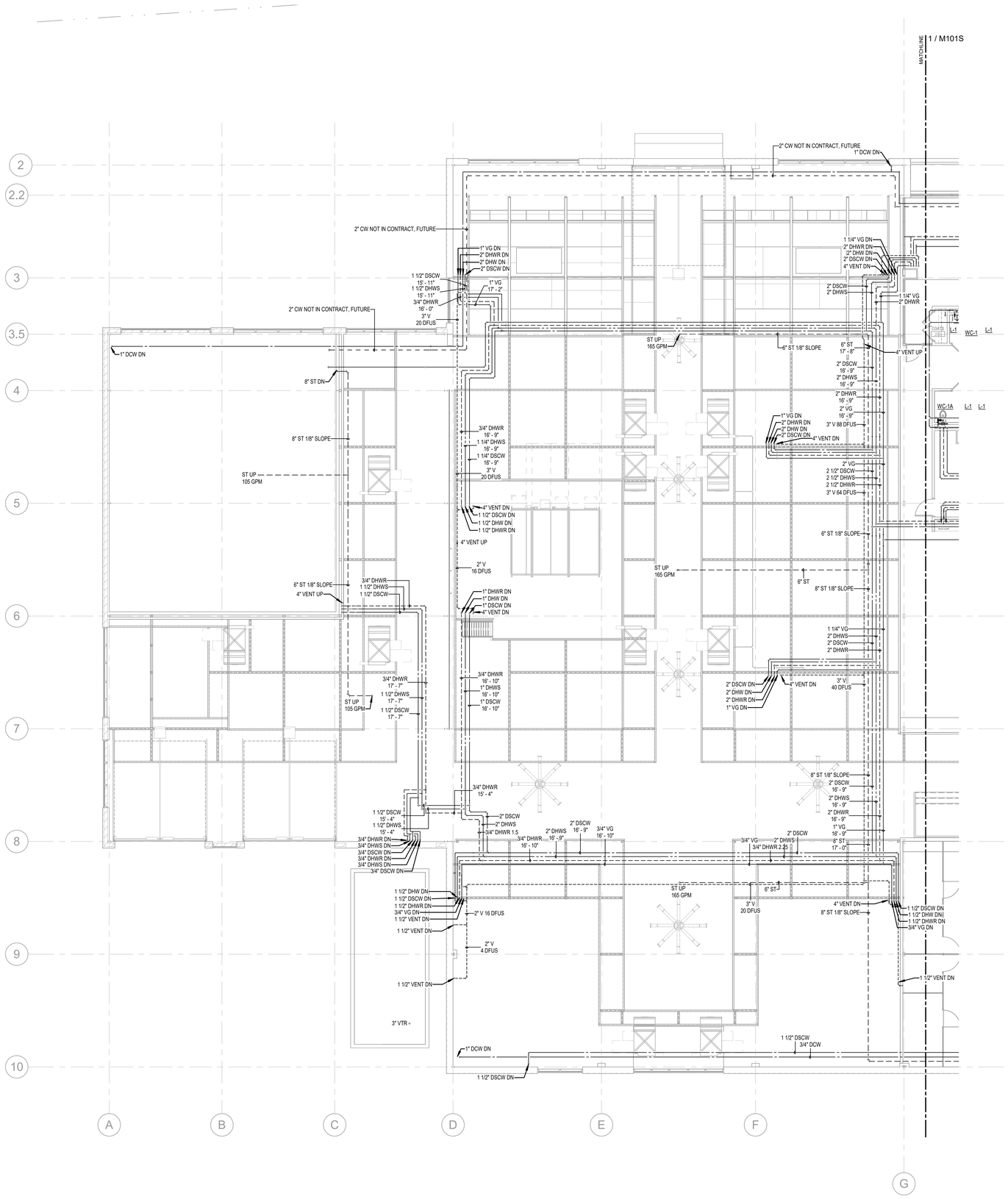

1 MEZZANINE PLUMBING - NORTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE PIPING SHOWN LIGHT - DASHED IS TO BE ABANDONED IN PLACE. CAP OFF AS REQUIRED, BELOW GRADE. BACKFILL BY PLUMBING CONTRACTOR. PATCH BY GENERAL CONTRACTOR.
B. ALL FOOD SERVICE AREA SANITARY SHALL BE GREASE - LADEN AND ROUTED TO EXTERIOR GREASE INTERCEPTOR, AS SHOWN.
C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

1 .

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200 N First St, Madison, WI 53704

Project No: M10.19.04

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 License No 22866-006

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MEZZANINE
PLUMBING - NORTH

P102N

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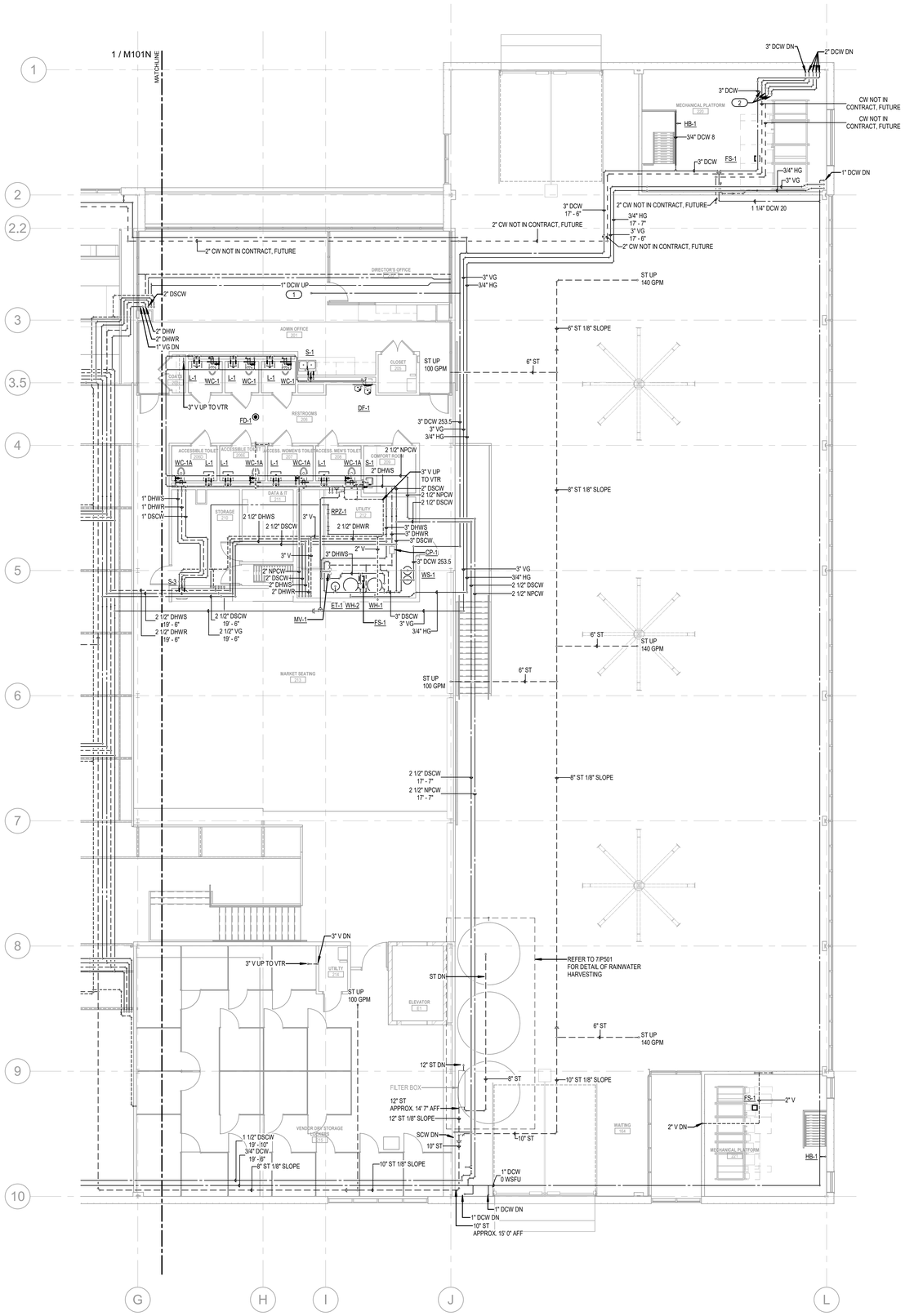

1 **MEZZANINE PLUMBING - SOUTH**

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. BELOW GRADE PIPING SHOWN LIGHT - DASHED IS TO BE ABANDONED IN PLACE. CAP OFF AS REQUIRED, BELOW GRADE. BACKFILL BY PLUMBING CONTRACTOR. PATCH BY GENERAL CONTRACTOR.
B. ALL FOOD SERVICE AREA SANITARY SHALL BE GREASE - LADEN AND ROUTED TO EXTERIOR GREASE INTERCEPTOR, AS SHOWN.
C. CONTRACTOR SHALL COORDINATE FINAL LOCATION FOR VENDOR CLEANOUTS AND SHUT-OFF VALVES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES

1. PROVIDE BALL BALVE AND CAPPED AND THREADED DRAIN CONNECTION AT BOTTOM OF 3/4" WATER UP TO ROOF (ALLOWS FOR WINTER DRAIN-DOWN).
2. CAP 2" DCW LINE TO ALLOW FOR FUTURE CONNECTION.

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Project No: M10.19.04

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Engineer Seal

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PROFESSIONAL ENGINEER

Signature

Print Name **Thomas B. Weber**

Date **June 9, 2023** License No **22866-006**

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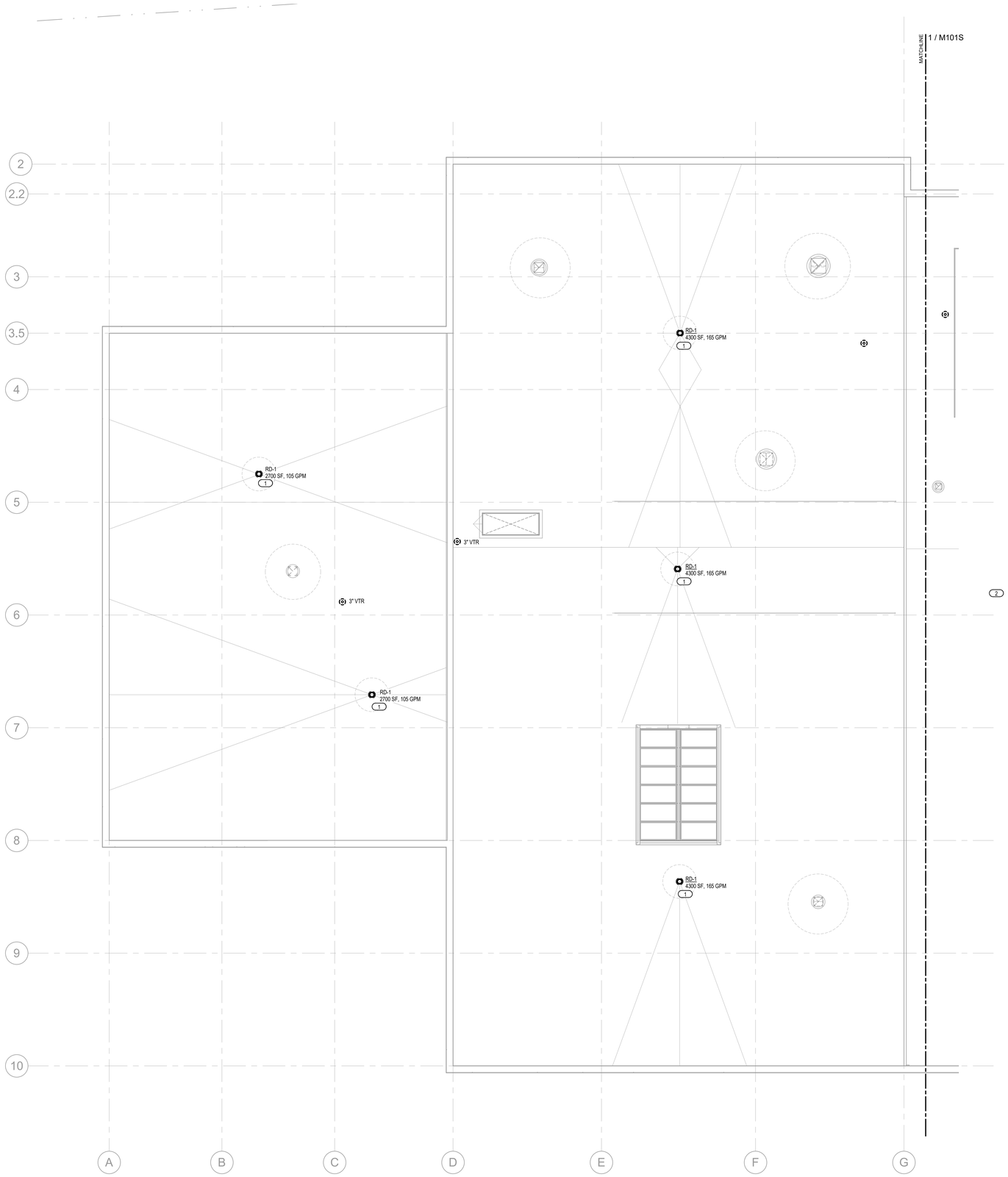
MEZZANINE
PLUMBING - SOUTH

P102S



GENERAL NOTES

A. SOLAR PANELS AND OTHER ROOF EQUIPMENT SHOWN FOR REFERENCE. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK.
B. PROVIDE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION.

KEYED NOTES

(1) INSTALL NEW ROOF DRAIN IN LOCATION OF OLD, REMOVED.

1 ROOF PLUMBING - NORTH

1/8" = 1'-0"

PROJECT NORTH

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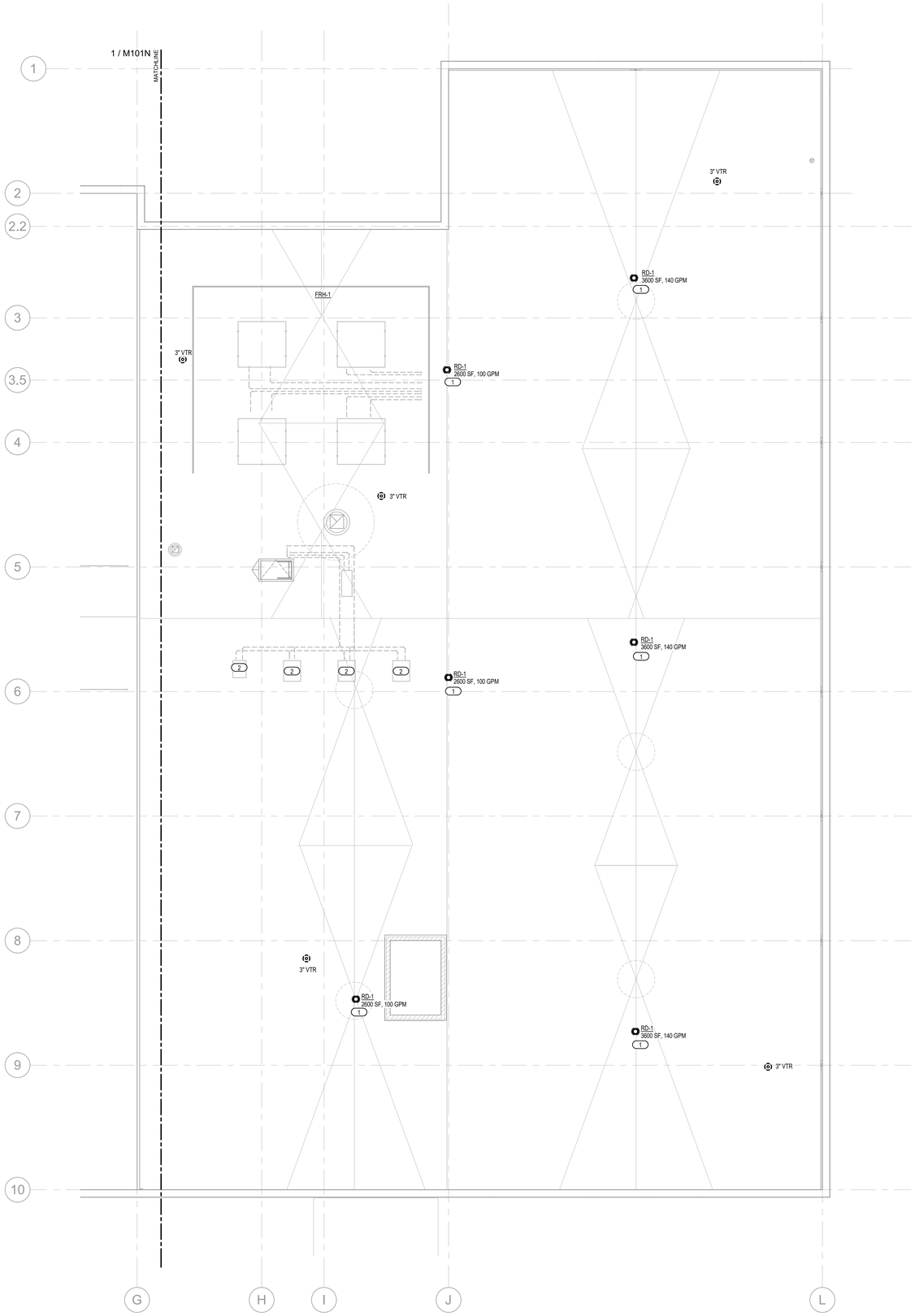
ROOF PLUMBING - NORTH

P103N



1 ROOF PLUMBING - SOUTH

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. SOLAR PANELS AND OTHER ROOF EQUIPMENT SHOWN FOR REFERENCE. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK.
B. PROVIDE TEMPORARY ROOF DRAINAGE DURING CONSTRUCTION.

KEYED NOTES

1. NEW ROOF DRAIN TO BE INSTALLED IN LOCATION OF OLD, DEMOLISHED.
2. FOOD SERVICE EQUIPMENT AND ASSOCIATED PIPING ON ROOF BY OTHERS.

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Print Name Thomas B. Weber

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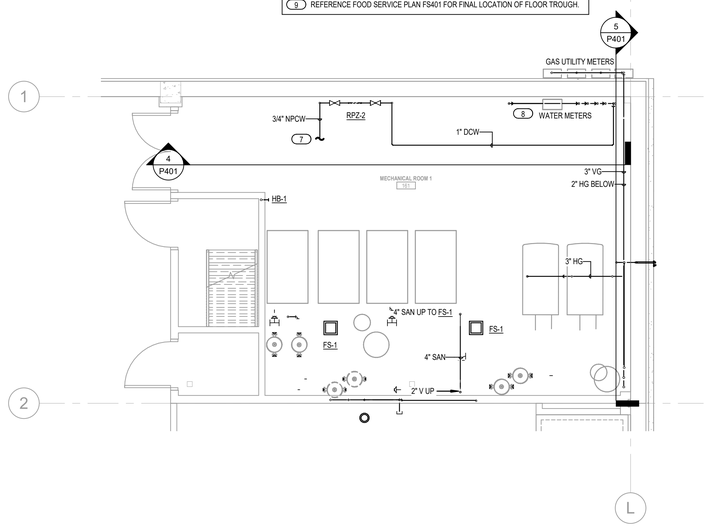
ROOF PLUMBING - SOUTH

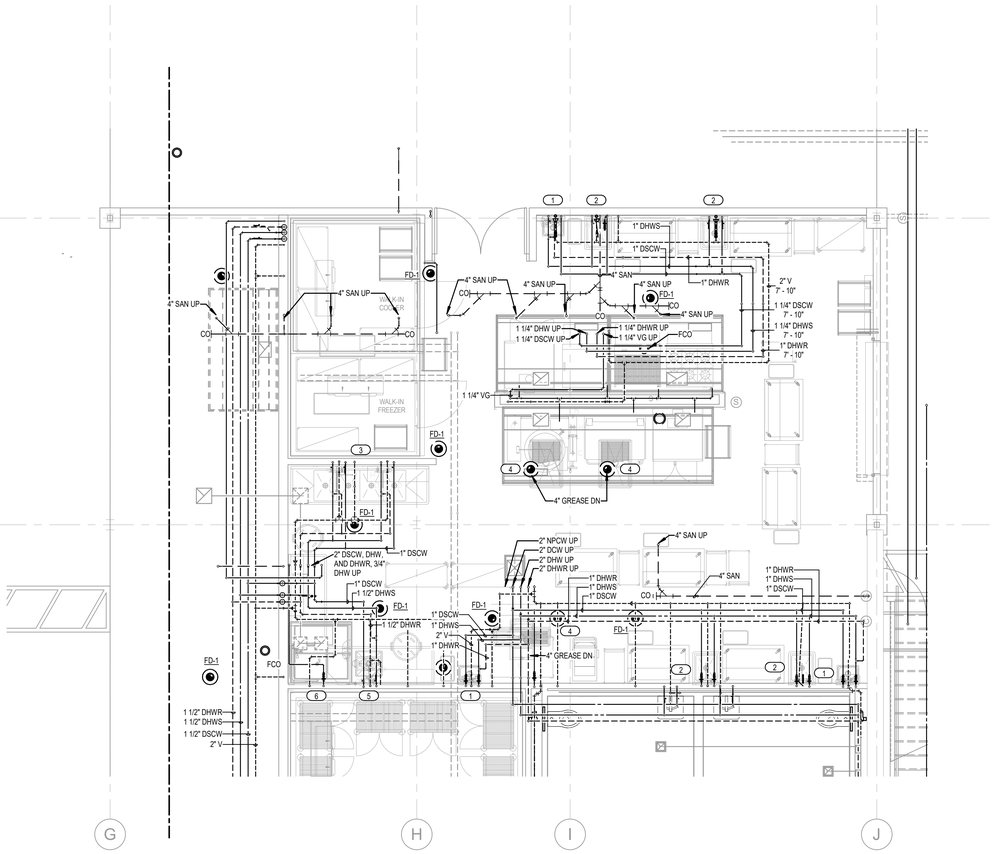
P103S

KEYED NOTES

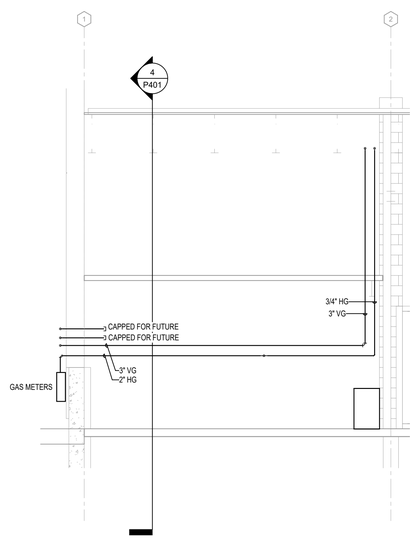
1. HAND SINK PROVIDED BY OTHERS. MECHANICAL TO ROUTE AND CONNECT DSCW, GREASE, TRAP, VENT, DHW, AND DHWR.
2. PREP SINK PROVIDED BY OTHERS. MECHANICAL TO ROUTE AND CONNECT DSCW, GREASE, TRAP, VENT, DHW, AND DHWR.
3. 3-COMP SINK PROVIDED BY OTHERS. MECHANICAL TO ROUTE AND CONNECT DSCW, GREASE, TRAP, VENT, DHW, AND DHWR.
4. TRENCH PROVIDED BY OTHERS. COORDINATE WITH THE APPROVED FOOD SERVICE PACKAGED PURCHASED BY OWNER FOR FINAL FIXTURE LOCATIONS. PLUMBING TO ROUTE AND CONNECT GREASE.
5. SCRAP SINK PROVIDED BY OTHERS. PLUMBING TO ROUTE AND CONNECT DSCW, GREASE, TRAP, VENT, DHW, AND DHWR.
6. DISHWASHER PROVIDED BY OTHERS. MECHANICAL TO ROUTE AND CONNECT DSCW, GREASE, TRAP, DHW, AND DHWR.
7. ROUTE 3/4" NON-POTABLE DOMESTIC COLD WATER TO CHILLED WATER AND HOT WATER MAKE-UP WATER SYSTEM. REFER TO RPZ DETAIL. COORDINATE WITH MECHANICAL CONTRACTOR.
8. REFER TO WATER ENTRANCE DETAIL, PLUMBING WATER SUPPLY RISER DIAGRAM AND MECHANICAL ROOM SECTION VIEW 1.
9. REFERENCE FOOD SERVICE PLAN FS401 FOR FINAL LOCATION OF FLOOR TROUGH.



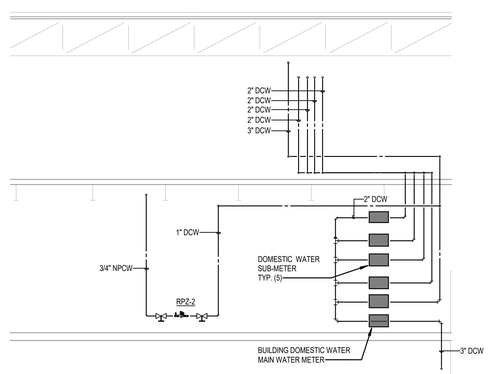
2 ENLARGED SOUTH MECHANICAL ROOM PLUMBING PLAN
1/4" = 1'-0"



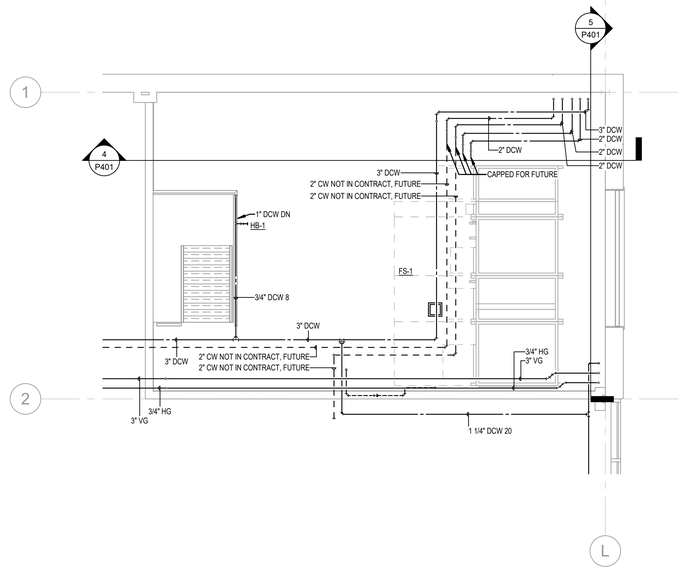
1 ENLARGED KITCHEN PLUMBING PLAN
1/4" = 1'-0"



5 SOUTH MECHANICAL ROOM SECTION 2
1/4" = 1'-0"



4 SOUTH MECHANICAL ROOM SECTION 1
1/4" = 1'-0"



3 ENLARGED SOUTH MECHANICAL ROOM MEZZANINE PLUMBING PLAN
1/4" = 1'-0"

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Project No. M10.19.04

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Engineer Seal

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CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

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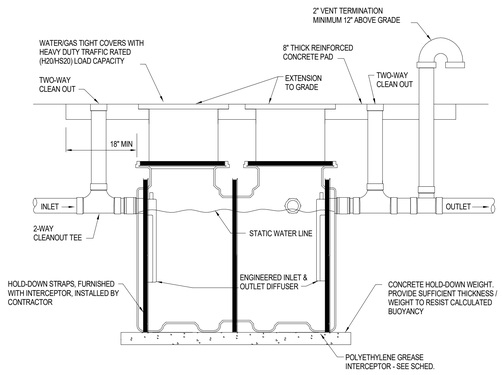
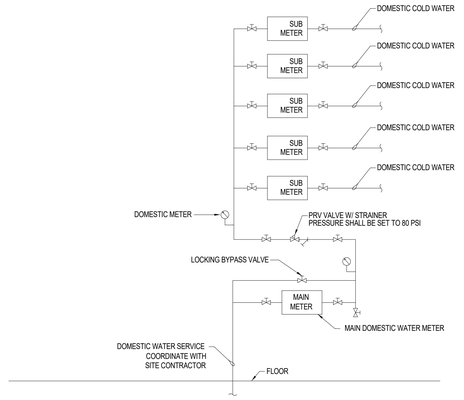
ENLARGED PLUMBING PLANS

P401



3 EXTERIOR GREASE INTERCEPTOR TANK DETAIL
NOT TO SCALE



2 WATER ENTRANCE DETAIL
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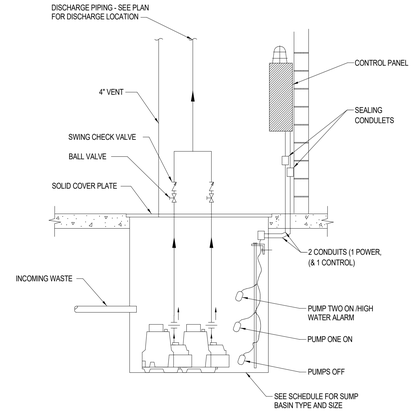
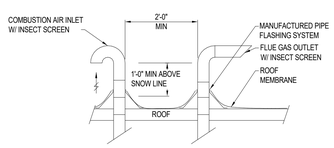


1 DUPLEX SUMP DETAIL
NOT TO SCALE



6 WATER HEATER VENT TERMINATIONS DETAIL
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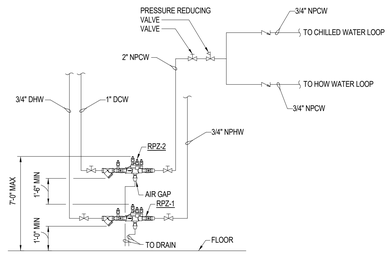

5 RPZ DETAIL
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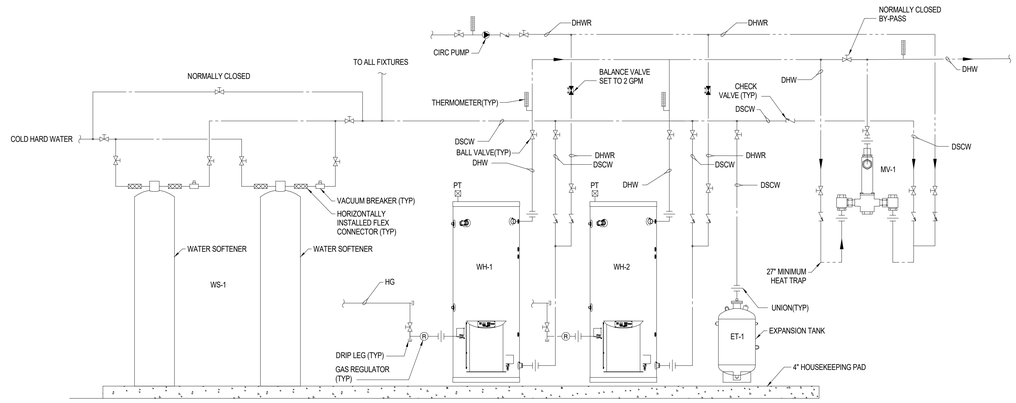

4 WATER HEATER PIPING DETAIL
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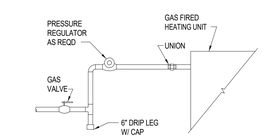
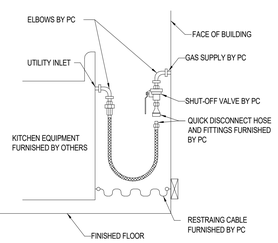
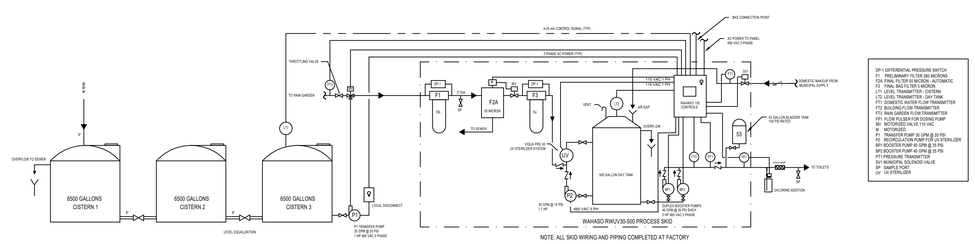


9 TYPICAL GAS CONNECTION DETAIL
NOT TO SCALE



8 GAS QUICK CONNECT DETAIL
NOT TO SCALE



7 RAINWATER HARVESTING DETAIL
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Print Name Thomas B. Weber

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EXPANSION TANK SCHEDULE

TAG	QUANTITY	SYSTEM	TYPE	SIZE		CAPACITY		FIELD AIR CHARGE (PSIG)	SYSTEM WATER VOLUME (GAL)	SYSTEM OPERATING RANGE (GAUGE PSI)		SYSTEM TEMPERATURE RANGE (°F)		CONNECTION (IN.)	WET WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
				HEIGHT (IN.)	DIAMETER (IN.)	ACCEPT. VOLUME (GAL)	MIN. TANK VOLUME (GAL)			MIN	MAX	MIN	MAX					
ET-3	1	HOUSE DOMESTIC WATER	ASME DIAPHRAGM	19	16	9	14	30		30	100	45	145	3/4	84	BELL AND GOSSETT	PTA-30V	ALL NOTES APPLY
ET-4	1	VENDOR DOMESTIC WATER	ASME DIAPHRAGM	19	16	9	14	30		30	100	45	145	3/4	84	BELL AND GOSSETT	PTA-30V	ALL NOTES APPLY

NOTES:
1. TANK SHALL BE CHARGED IN FIELD WITH OIL-FREE COMPRESSED AIR. CHECK AIR VALVE FOR LEAKS DURING FILL. IF LEAKS OCCUR, RELIEVE PRESSURE AND REPLACE AIR VALVE.
2. CONTRACTOR SHALL DOCUMENT WATER VOLUME REQUIRED FOR SYSTEM FILL AND NOTIFY ENGINEER OF THE ACTUAL SYSTEM WATER VOLUME (GAL.). RECORD SYSTEM VOLUMES IN CORRESPONDING O&M MANUALS AND TAB REPORT.

HOT WATER HEATER SCHEDULE

TAG	SERVES	TYPE	INPUT CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	THERMAL EFFICIENCY (%)	STORAGE CAPACITY (GAL.)	SETPOINT (°F)	FUEL	V/PH/HZ	GAS CONNECTION (IN.)	WATER CONNECTION (IN.)	INTAKE / FLUE SIZE	MANUFACTURER	MODEL
WH-1	BUILDING	NATURAL GAS, STORAGE TANK	199,000	191,000	96	119	140	NATURAL GAS	120/1/60	3/4"	1-1/2"	3" / 3"	HTP	PHM-199-100
WH-2	BUILDING	NATURAL GAS, STORAGE TANK	199,000	191,000	96	119	140	NATURAL GAS	120/1/60	3/4"	1-1/2"	3" / 3"	HTP	PHM-199-100

NOTES:
1. PROVIDE P/T VALVE, PIPED TO FLOOR DRAIN
2. PROVIDE ACID NEUTRALIZATION KIT FOR CONDENSATE; ROUTE TO FLOOR DRAIN
3. ROUTE INTAKE AND FLUE UP THROUGH ROOF AND TERMINATE WITH CODE / MANUFACTURER CLEARANCES; USE MANUFACTURER TERMINATION KIT
4. TANK HOLDING TEMPERATURE IS 140F
5. REFER TO WATER HEATER PIPING DETAIL.

GREASE INTERCEPTOR SCHEDULE

TAG	LOCATION	FLOW RATE (GPM)	LIQUID CAPACITY (GALLONS)	GREASE CAPACITY (LB)	DIMENSIONS (L x W x H, INCHES)	CONNECTION (IN / OUT, INCHES)	MANUFACTURER	MODEL	NOTES
GI-1	EXTERIOR	100	1,010	5,500	92 x 73 x 72	6 / 6	SCHIER	GB-1000	ALL NOTES APPLY

NOTES:
1. INSTALLED EXTERIOR; REFER TO SITE PLANS AND COORDINATE WITH SITE CONTRACTOR
2. ALL GREASE SANITARY UPSTREAM IS BY PLUMBING CONTRACTOR; SANITARY LINE AFTER INTERCEPTOR IS BY PLUMBING CONTRACTOR TO A POINT 5'-0" FROM INTERCEPTOR, THEN BY SITE CONTRACTOR.
3. REFER TO DETAIL; VENTING BY PLUMBING CONTRACTOR; COORDINATE WITH SITE WORK / STRUCTURES
4. PROVIDE MANUFACTURER RISERS TO EXTEND UP TO GRADE
5. PROVIDE MANUFACTURER HOLD-DOWN TIES; PROVIDE WEIGHTED BASE TO RESIST BOUYANCY, AND SECURE TO HOLD DOWN TIES (BOUYANCY EFFECT APPROXIMATELY 12,000LB, EMPTY); WEIGHT IS BY CONTRACTOR, MANUFACTURER DOES NOT FURNISH.
6. PROVIDE LOCKING COVER(S).
7. SIZING BASED ON 5000 MEALS PER DAY, HIGH GREASE CONTENT, NO FLATWARE, AND 30-DAY PUMP CYCLE
8. PROVIDE LOCAL CODE COMPLIANT SIZING CALCULATIONS DURING SUBMITTAL PHASE

DOMESTIC WATER BACKFLOW PREVENTION DEVICES

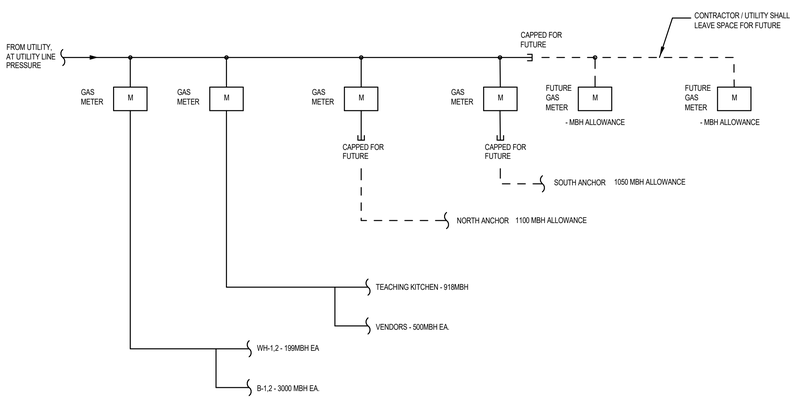
TAG	TYPE	ASSE DESIGNATION	SERVES	SIZE (IN)	PRESSURE DROP (PSI) @ FLOW RATE (GPM)	MANUFACTURER	MODEL	NOTES
RPZ-1	REDUCED PRESSURE ZONE	1013	COMMERCIAL DISHWASHER	3/4	13 @ 12	WATTS	LF009QT	ALL NOTES APPLY
RPZ-2	REDUCED PRESSURE ZONE	1013	HYDRONIC MAKE-UP WATER	3/4	11 @ 10	WATTS	LF009QT	ALL NOTES APPLY

NOTES:
1. INSTALL PER CODE AND REGISTER WITH LOCAL AUTHORITY; OBTAIN SIGN-OFF BY AUTHORITY HAVING JURISDICTION PRIOR TO TURNOVER
2. PROVIDE HAMMER ARRESTOR DOWNSTREAM OF DEVICE

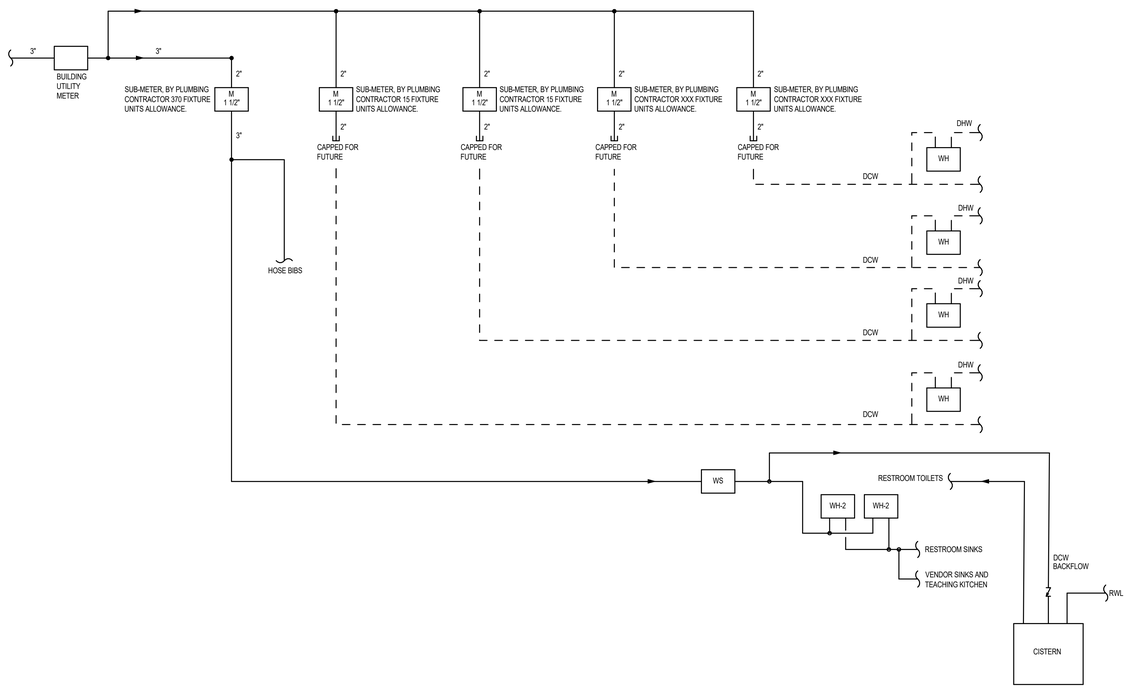
SUMP SCHEDULE

TAG	LOCATION	WIDTH (FT.-IN.)	DEPTH (FT.-IN.)	FLOW RATE (GPM)	LIFT (FEET)	INLET (IN.)	PUMP OUTLET (IN.)	ELECTRICAL		MANUFACTURER	MODEL	NOTES
								V/PH/HZ	HP			
SP-1	LOADING DOCK	3'-0"	5'-0"	50	20	4"	2"	460/3/60	1/2	WEIL	1411-OSS	ALL NOTES APPLY

NOTES:
1. DUPLEX INSTALLATION; HORSEPOWER IS PER PUMP
2. REFER TO DETAIL
3. PROVIDE WITH LOCAL CONTROL PANEL FROM MANUFACTURER; NO CONNECTION TO BUILDING AUTOMATION SYSTEM REQUIRED.
4. SERVES ELEVATOR DRAIN, PER CODE
5. OIL-SEPARATION SYSTEM
6. DISCONNECT PROVIDED WITH CONTROL PANEL; WIRING BY ELECTRICAL
7. PROVIDE WITH ASSOCIATED FIBERGLASS BASIN; SIZED AS NOTED AND AS REQUIRED FOR MINIMUM 20 SECOND RUN TIME; COVER SHALL BE STEEL
8. PROVIDE PUMP REMOVALSYSTEM.
9. PROVIDE AUDIO AND VISUAL ALAMRM SYSTEM TO INDICATE PUMP FAILURE AND OVERLOAD.
10. PROVIDE CHECK VALVE AND SHUT-OFF VALVE OUTSIDE OF BASIN.



2 BUILDING GAS SCHEMATIC
NOT TO SCALE



1 BUILDING WATER SCHEMATIC
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WISCONSIN THOMAS BERNARD WEBER 22866-006 CHICAGO IL PROFESSIONAL ENGINEER

Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

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PLUMBING SCHEDULES

P601

PLUMBING FIXTURE ROUGH-IN SCHEDULE

MARK	FIXTURE	QUANTITY	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
						COLD	HOT	WASTE	VENT	
L-1	WALL MOUNT LAVATORY	14	KOHLER	K-2084	WALL	3/4"	3/4"	2"	1-1/2"	PROVIDE DYSON WD04 AIRBLADE WASH+DRY FAUCET WITH ASSE 1070 COMPLIANT MIXING VALVE (SET MIXING VALVE TO 110°) AND 0.5 GPM LOW FLOW AERATOR. PROVIDE WITH LACAVA RA096 TRAP COVER. UNIT SHALL BE ADA COMPLIANT.
L-2	WALL MOUNT LAVATORY	1	BEST SHEET METAL	021E60208B	WALL	3/4"	3/4"	2"	1-1/2"	STAINLESS STEEL WASH STATION INCLUDING TWO FAUCETS. PROVIDE WITH ASSE 1070 COMPLIANT MIXING VALVE; SET MIXING VALVE TO 110°. PROVIDE 0.5 GPM LOW FLOW AERATOR
S-1	SINGLE COMPARTMENT	2	KOHLER	K-3894-4	UNDERMOUNT	3/4"	3/4"	2"	1-1/2"	PROVIDE DELTA 1959LF FAUCET WITH 1.5 GPM VANDAL-RESISTANT PRESSURE COMPENSATING FEMALE LAMINAR FLOW AND WRIST-BLADES.
S-2	SINGLE COMPARTMENT	7	ELKAY	ELV22193	WALL	3/4"	3/4"	2"	1-1/2"	STAINLESS STEEL WALL MOUNTED SINK WITH BACKSPLASH. PROVIDE CHICAGO FAUCET 116.123.AB.4 TOUCH-FREE FAUCET WITH 1.5 GPM LAMINAR FLOW INSERT
S-3	DOUBLE COMPARTMENT	1	KOHLER	K-3838-4	UNDERMOUNT	3/4"	3/4"	2"	1-1/2"	STAINLESS STEEL DOUBLE COMPARTMENT, UNDERMOUNT SINK. PROVIDE DELTA 1959LF FAUCET (1.5 GPM MAX) AND DELTA RP100734 SOAP DISPENSER. PROVIDE WITH WITH ASSE 1070 COMPLIANT MIXING VALVE; SET MIXING VALVE TO 110°.
S-4	FOUR COMPARTMENT	7	ADVANCE TABCO	SLB-74C	FLOOR	3/4"	3/4"	2"	1-1/2"	STAINLESS STEEL 4-COMPARTMENT SINK, FLOOR MOUNTED WITH (2) BACKSPLASH MOUNT FAUCETS AS: CHICAGO FAUCET MODEL 540-LDE35-317WXFAB, 1.5 GPM VANDAL-PROOF PRESSURE COMPENSATING SOFT-FLO AERATOR, 4" WRIST-BLADES, S-TYPE SWING SPOUT. PROVIDE PRE-RINSE CHICAGO FAUCET MODEL 510-G613L12XKCAB, 1.0 GPM VANDAL-PROOF, WALL MOUNTED, 23" RISER WITH SPRING GUIDE, 44" FLEXIBLE STAINLESS STEEL HOSE WITH INSULATED HANDLE, PIPE STRAP AND HOOK ASSEMBLY. PROVIDE AIR GAP CONNECTION.
WC-1	ADA WATER CLOSET	14	ZURN	Z5615-BWL-AM	WALL	2"	-	4"	2"	PROVIDE UNIT WITH ZURN Z6000PL-HET 1.28 GPF MANUAL FLUSH VALVE , ELONGATED, OPEN FRONT TOILET SEAT-LESS COVER WITH STAINLESS STEEL HINGE AND ANTI-MICROBIAL GLAZING. INSTALL PER ADA REQUIREMENTS.
FWH-1	FREEZELESS WALL HYDRANT	6	WOODFORD	B67	WALL	3/4"	-	-	-	WALL HYDRANT SHALL BE FREEZELESS AND SELF-DRAINING. PROVIDE LOOSE KEY OPERATOR.
HB-1	HOT AND COLD HOSE BIBB	3	WOODFORD	C22	WALL	3/4"	3/4"	-	-	HOSE BIBB SHALL BE FREEZELESS AND SELF-DRAINING.
FRH-1	FREEZELESS ROOF HYDRANT	1	WOODFORD	RHY2	ROOF	3/4"	-	-	-	ANTI-SIPHON, CHROME FINISH, EXPOSED WITH OPERATING KEY.
MS-1	MOP SINK	2	ZURN	Z1996-24	FLOOR	3/4"	3/4"	2"	2"	UNIT SHALL BE MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STEEL STRAINER, AND 3" GASKETED OUTLET CONNECTION. PROVIDE VINYL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, WALL GUARD AND SERVICE FAUCET.
FD-1	SQUARE FLOOR DRAIN	39	ZURN	Z415S	FLOOR	-	-	2"	2"	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, "TYPE S" NICKEL BRONZE POLISHED, SQUARE HEEL-PROOF, AND COMBINATION OF INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS.
FS-1	FLOOR SINK	5	ZURN	Z1751	FLOOR	-	-	4"	2"	UNIT SHALL BE 8" DEEP, 14 GAUGE, 304 STAINLESS STEEL, LOOSE SET FULL GRATE STAINLESS STEEL SEDIMENT BASKET, U.S FDA APPROVED CORROSION RESISTANT. PROVIDE BUTTERFLY LOCK SEDIMENT BASKET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAM COLLAR, 3/4 GRATE.
RD-1	PRIMARY ROOF DRAIN	11	ZURN	Z100	ROOF	-	-	-	-	DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND CAST IRON DOME.
DF-1	DRINKING FOUNTAIN	2	ELKAY	EZWS-EDFPBM117K	WALL	3/4"	-	2"	1 1/2"	DUAL LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION. INSTALL TO COMPLY WITH ADA REQUIREMENTS. INSTALL WITH NECCESARY ACCESS PANELS TO MEET CODE COMPLIANCE.
BF-1	BOTTLE FILLING STATION	1	ELKAY	LZWSGRN8K	WALL	3/4"	-	2"	1 1/2"	IN WALL, HANDS FREE, STAINLESS STEEL BOTTLE FILLING STATION.

NOTES:
1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
2. 1/2" CW AND HW APPLIES ONLY TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" INCH UNLESS NOTED OTHERWISE.
3. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.
4. FIXTURE QUANTITIES NOTED IN SCHEDULE ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING FIXTURE COUNTS WITH DRAWINGS. OTHERWISE.

WATER SOFTENER SCHEDULE

TAG	SERVES	TYPE	CALCULATED FLOW RATES		MAXIMUM PRESSURE LOSS AT FLOW RATE (PSI)	QUANTITY (IN PARALLEL)	MANUFACTURER	MODEL	NOTES
			DSFU	GPM					
WS-1	HOUSE DOMESTIC	NON-ADDITIVE SCALE PREVENTION	140	75	7	2	WATTS	OF 1665 75TM	ALL NOTES APPLY
WS-2	VENDOR DOMESTIC	NON-ADDITIVE SCALE PREVENTION	180	75	8	2	WATTS	OF 1665 75TM	ALL NOTES APPLY

NOTES:
1. UNIT IS NOT A WATER SOFTENER, BUT SCALE PREVENTION DEVICE
2. NO POWER CONNECTION REQUIRED
3. INSTALL IN PARALLEL, INCLUDING VACUUM BREAKER, FLEX CONNECTION, AND SHUT-OFF VALVES PER MANUFACTURER

DOMESTIC WATER CIRCULATION PUMP SCHEDULE

TAG	SERVES	PUMP TYPE	DESIGN FLOW (GPM)	DESIGN HEAD (FT. HD)	MOTOR			MANUFACTURER	MODEL	NOTES
					V/PH/HZ	HP	RPM			
CP-1	HOUSE DOMESTIC CIRCULATION	HOUSE DOMESTIC WATER	12	15	120/1/60	FRACT	5,200	BELL AND GOSSETT	ECOCIRC 20-18	ALL NOTES APPLY

NOTES:
1. PROVIDE STAINLESS STEEL IMPELLOR, FOR USE IN DOMESTIC WATER SYSTEMS
2. CONTROLLED BY LOCAL THERMOWELL; REFER TO SPECIFICATIONS
3. REFER TO DETAIL
4. FLOW RATE BASED ON 0.75 GPM PER BALANCING VALVE

PLUMBING CONNECTION SCHEDULE - KITCHEN EQUIP.

EQUIPMENT TAG	EQUIPMENT	NATURAL GAS		DOMESTIC WATER			SANITARY	NOTES
		LOAD (Btu)	CONNECTION	C.W.	H.W. (110°F)	H.W. (140°F)		
1	WALK-IN COOLER							FLOOR DRAIN FOR CONDENSATE
3	WALK-IN FREEZER							FLOOR DRAIN FOR CONDENSATE
8	WALK-IN COOLER							FLOOR DRAIN FOR CONDENSATE
11	WALK-IN FREEZER	-						FLOOR DRAIN FOR CONDENSATE
17	HAND SINK	-	-	3/4"	3/4"	-	2"	
21	ICE MAKER	-	-	3/4"	-	-	1"	PROVIDE FLOOR DRAIN NEAR ICE MAKER. ROUTE 1" SANITARY TO FLOOR DRAIN.
22	FLOOR TROUGH	-	-	-	-	-	4"	CONFIRM THESE DRAIN PRODUCTS ARE COORDINATED WITH THE APPROVES FOOD SERVICE PACKAGE PRIOR TO PROCURING. ADVANCE TABCO FTG-1248
25	PREP SINK							
33	DISH MACHINE	-	-	-	3/4"	-	1-1/2"	
38	DISH TABLE WITH SCRAP SINK	-	-	3/4"	3/4"	-	2"	
39	DISPOSER WITH PRE RINSE SPRAY	-	-	3/4"	-	-	2"	
46	THREE COMPARTMENT SINK	-	-	3/4"	3/4"	-	(3) 1-1/2"	INDIRECT SANITARY CONNECTION(S)
52	DOUBLE CONNECTION OVEN	100,000	(2) 3/4"	-	-	-	-	
53	BRAISING PAN	125,000	3/4"	3/4"	3/4"	-	-	
54	TILTING KETTLE	100,000	3/4"	3/4"	-	3/4"	-	
55	FLOOR TROUGH	-	-	-	-	-	4"	CONFIRM THESE DRAIN PRODUCTS ARE COORDINATED WITH THE APPROVES FOOD SERVICE PACKAGE PRIOR TO PROCURING. ADVANCE TABCO FTG-2436
56	FLOOR TROUGH	-	-	-	-	-	4"	CONFIRM THESE DRAIN PRODUCTS ARE COORDINATED WITH THE APPROVES FOOD SERVICE PACKAGE PRIOR TO PROCURING. ADVANCE TABCO FTG-2436
58	DOUBLE DECK CONVECTION OVEN	100,000	(2) 3/4"	-	-	-	-	
59	GRIDDLE WITH OVEN	109,000	3/4"	-	-	-	-	
60	CHARBROILER WITH OVEN	141,000	3/4"	-	-	-	-	
61	6-BURNER RANGE WITH OVEN	243,000	3/4"	-	-	-	-	

NOTES:
1. ALL FIXTURES FURNISHED UNDER/BY KITCHEN EQUIPMENT SUPPLIER CONTRACT. INSTALL BY PLUMBING CONTRACTOR.
2. SEE KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.

DOMESTIC WATER MIXING VALVE SCHEDULE

TAG	SERVES	OUTLET TEMPERATURE (F)	DESIGN TEMPERED WATER FLOW (GPM)	DESIGN PRESSURE LOSS (PSI)	CONNECTONS (COLD - HOT - TEMPERED; INCHES)	MANUFACTURER	MODEL	NOTES
MV-1	HOUSE TEMPERED WATER	110	20	7	3/4 - 3/4 - 1	LAWLER	801	ALL NOTES APPLY
MV-2	VENDOR TEMPERED WATER	110	50	6	1-1/4 - 1-1/4 - 1-1/2	LAWLER	803	ALL NOTES APPLY

NOTES:
1. PROVIDE FROM FACTORY IN SURFACE-MOUNT STAINLESS STEEL CABINET
2. FACTORY TEMPERATURE GAUGE
3. INSTALL WITH SHUT-OFF VALVES ON INLETS AND OUTLET; INCLUDE PRESSURE GAUGE ON INLETS AND OUTLET
4. INSTALL PER DETAIL

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Signature
Print Name Thomas B. Weber
Date June 9, 2023 License No 22866-006

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PLUMBING SCHEDULES

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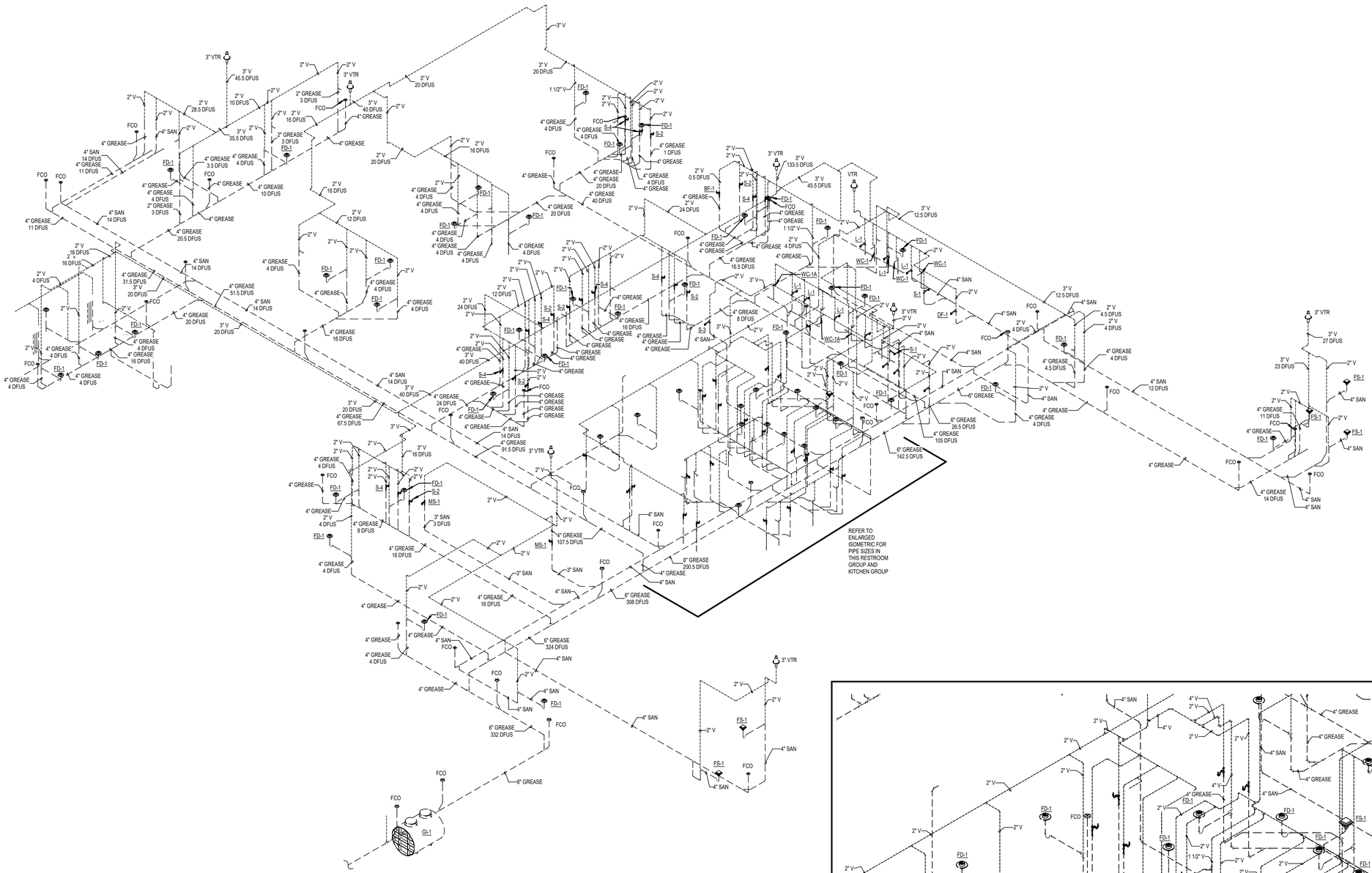
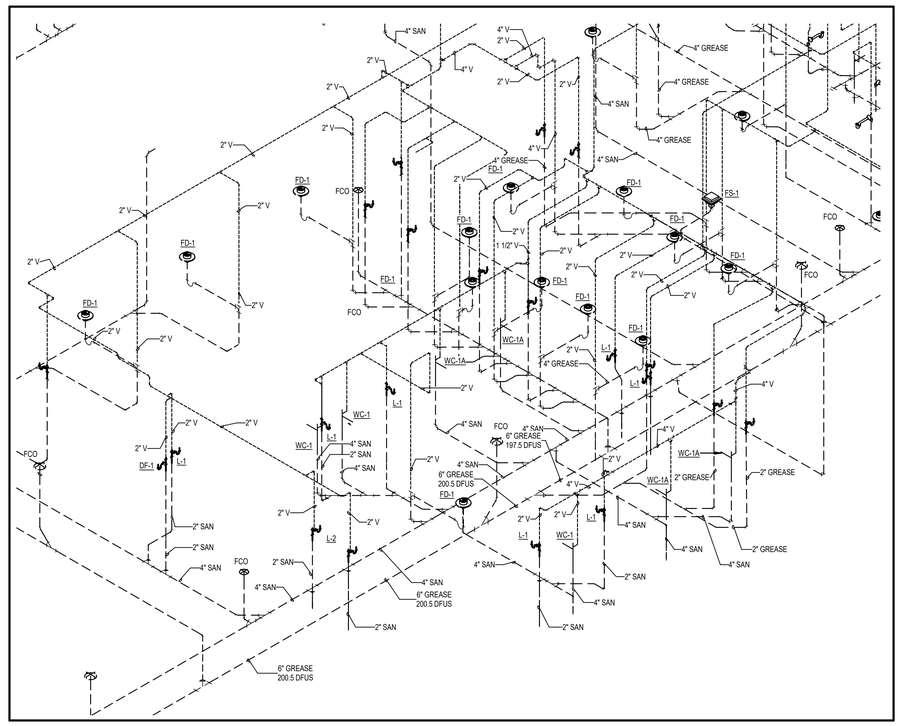


1 BUILDING SANITARY PLUMBING ISOMETRIC

1/8" = 1'-0"



2 ENLARGED RESTROOM & KITCHEN SANITARY PLUMBING ISOMETRIC

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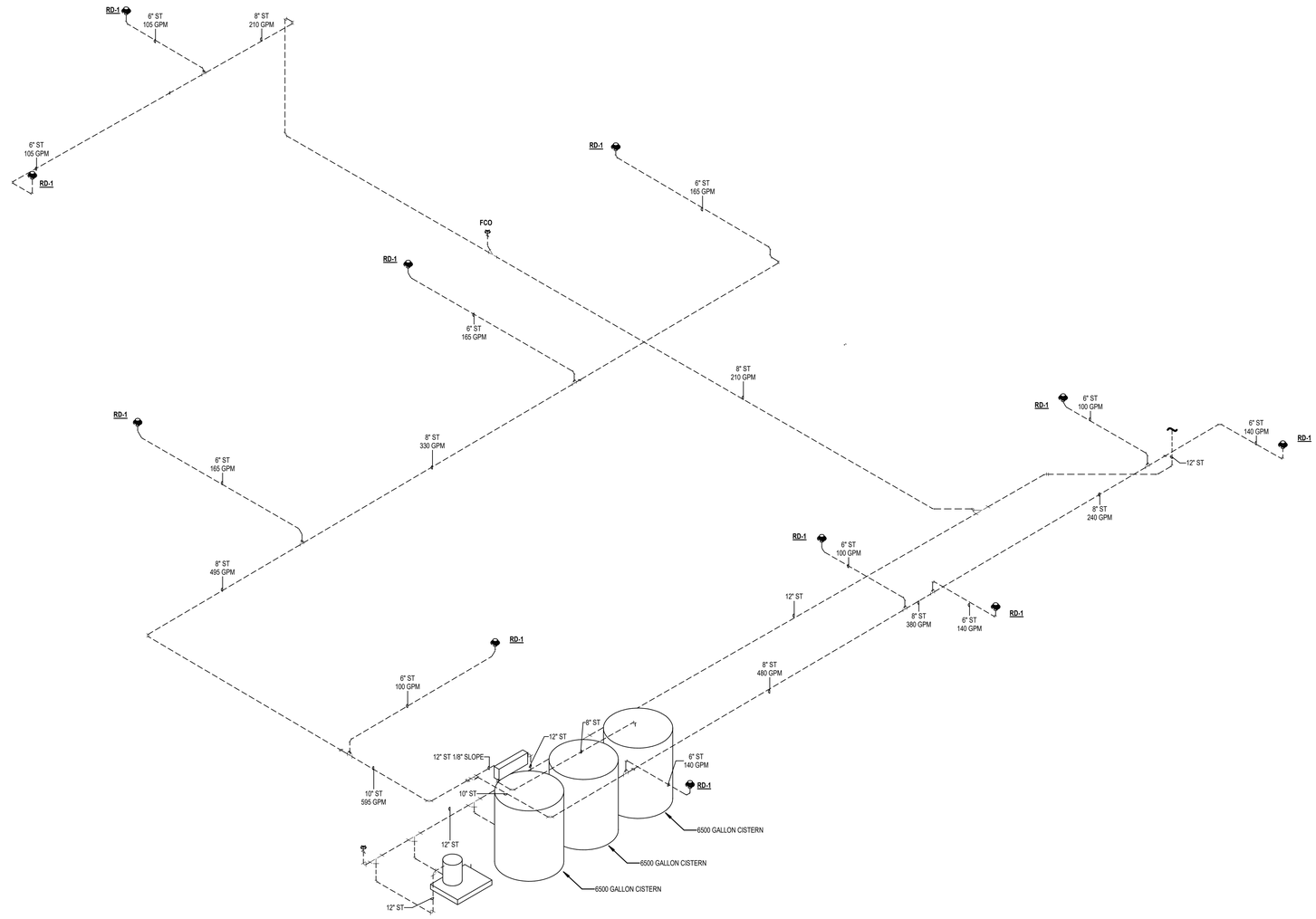

1 BUILDING STORM PLUMBING ISOMETRIC

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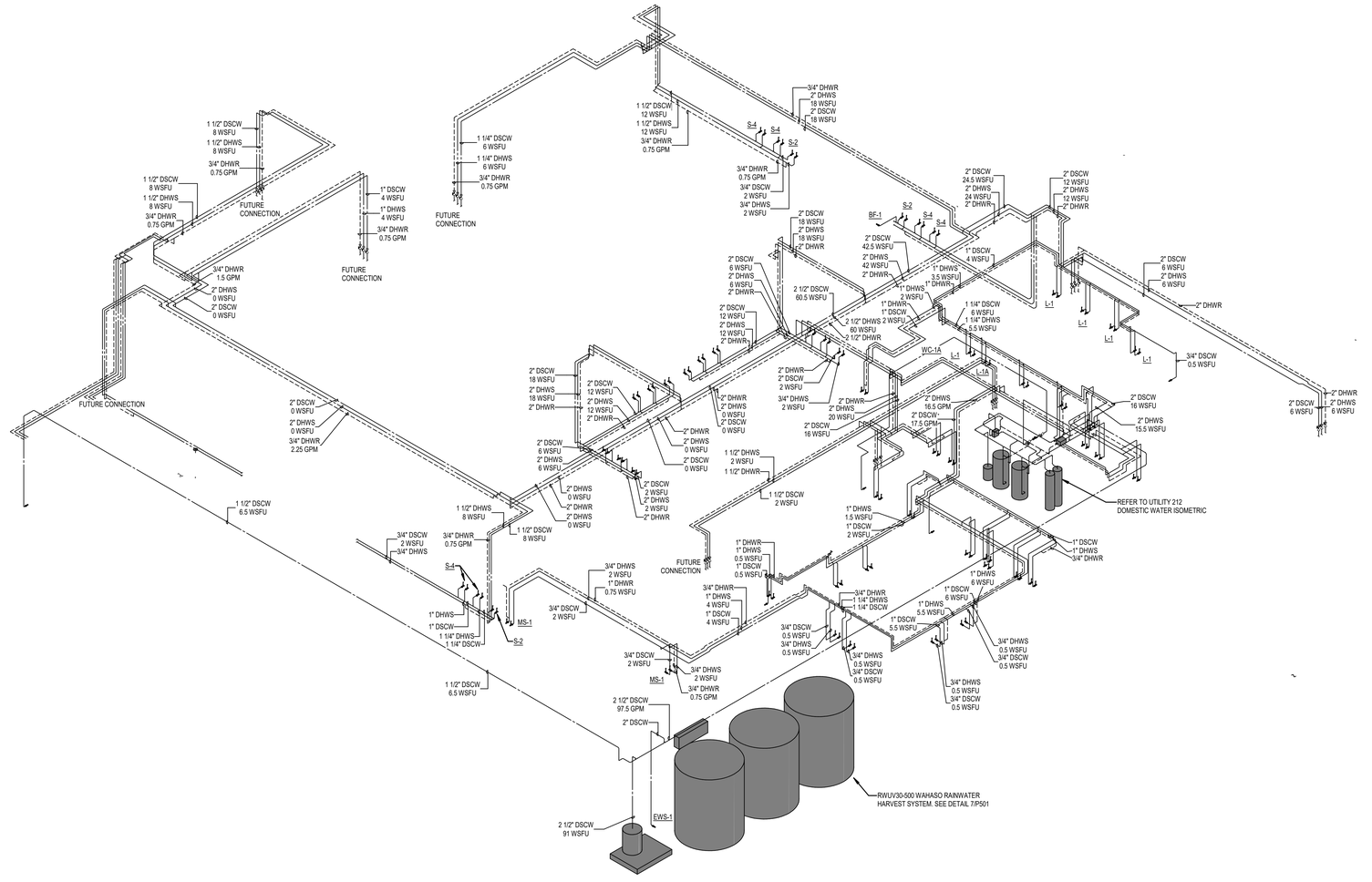

1 BUILDING DOMESTIC SOFT COLD WATER ISOMETRIC

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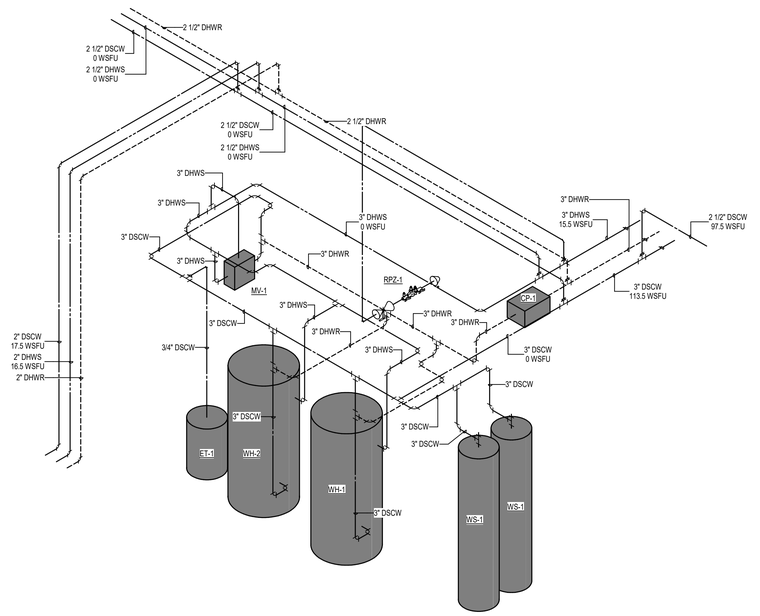

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Madison, WI 53715 | 608. 251. 3600

Structural Engineering, Fire Protection Engineering, Technology and AV

IMEG Corporation, Inc.
1800 Deming Way, Suite 200,
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Lighting Design

Mazzetti, Inc.
1999 Broadway, Suite 2205
Denver, CO 80202
720. 644. 5044

Commercial Kitchen Design

Boelter Premier
7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: M10.19.04

MADISON PUBLIC MARKET

200 N First St, Madison, WI 53704

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

Engineer Seal

WISCONSIN
THOMAS BERNARD WEBER
22866-006
CHICAGO IL
PROFESSIONAL ENGINEER

Signature

Print Name Thomas B. Weber

Date June 9, 2023 **License No** 22866-006

BID DOCUMENTS

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PLUMBING WATER SUPPLY ISOMETRICS

P703

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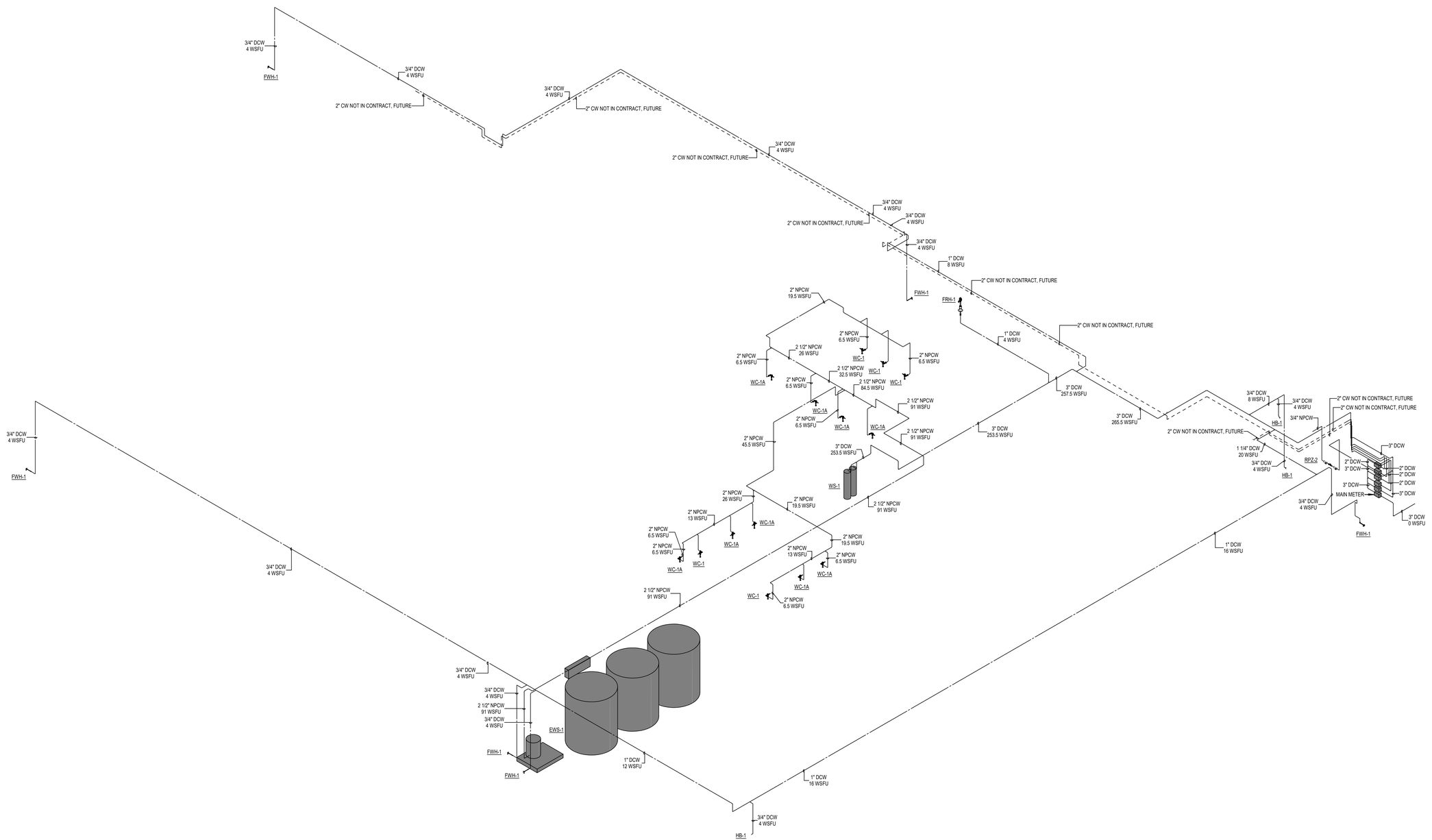

1 BUILDING DCW AND NPCW ISOMETRIC

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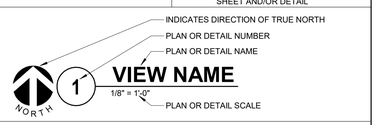
PLUMBING WATER SUPPLY ISOMETRICS

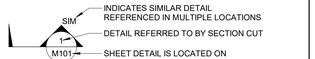
P704

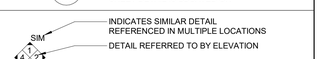
VIEW KEY

NAME
10' - 0"
LEVEL NAME
HEIGHT ABOVE
PROJECT 0' - 0"

1
INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL







LINE TYPE KEY:

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

FIRE / SMOKE BARRIER DESIGNATIONS

REFER TO BUILDING CODE SUMMARY PLAN ON SHEET G004 FOR ALL FIRE SMOKE BARRIER DESIGNATIONS.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
V.C.	VENTILATION CONTRACTOR

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CAF	COMPRESSED AIR - FIRE PROTECTION
DFP	DRAIN
FP	FIRE PROTECTION
FPD	FIRE PROTECTION - DRY SYSTEM
W	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	NEW CONNECTION
	UNION/FLANGE
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	SHUTOFF VALVE NORMALLY OPEN
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	CHECK VALVE
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
F	FLOW SWITCH
P	PRESSURE SWITCH
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	MONITOR SWITCH
	AREA BOUNDARY
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2
	SPRINKLER - WALL MOUNTED
	SPRINKLER
	SPRINKLER - CONCEALED
	SPRINKLER
	SPRINKLER
	SPRINKLER
A	SPRINKLER
A	SPRINKLER

FIRE PROTECTION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

FIRE HYDRANT FLOW TEST DATA

TEST DATE:	04/28/2020
RESIDUAL HYDRANT #:	H-4311
HYDRANT ELEVATION:	850
LOCATION:	202 N FIRST ST.
STATIC PRESSURE:	90 PSI
RESIDUAL PRESSURE:	74 PSI
TOTAL FLOW:	2500 GPM

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL FIRE PROTECTION SHEETS AND TRADES.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING] EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
7. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

FIRE PROTECTION GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
4. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE.
5. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
6. PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
7. PROVIDE COVERAGE ABOVE AND BELOW FLOATING CEILINGS. REFER TO ARCHITECTURAL PLANS.
8. PROJECTS CONTAINING HIGH VOLUME, LOW SPEED (HVLS) CEILING FANS >60" Ø: PROVIDE 4 SPRINKLER HEADS LOCATED EQUIDISTANT FROM THE CENTER OF THE FAN SO THAT THE FAN IS CENTERED BETWEEN THE 4 SPRINLER HEADS.
9. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
10. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
11. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
12. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
13. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
14. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
16. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
17. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
18. SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
19. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
20. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
21. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
22. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
23. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
24. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
25. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
26. ALL BRANCH PIPING ROUTED IN EXPOSED STRUCTURE SHALL BE ROUTED WITHIN JOIST SPACES.

FIRE PROTECTION SHEET INDEX

F000	FIRE PROTECTION COVERSHEET
FD101N	LEVEL 1 DEMOLITION - FIRE PROTECTION - NORTH
FD101S	LEVEL 1 DEMOLITION - FIRE PROTECTION - SOUTH
FD102N	MEZZANINE DEMOLITION - FIRE PROTECTION - NORTH
FD102S	MEZZANINE DEMOLITION - FIRE PROTECTION - SOUTH
F101N	LEVEL 1 - FIRE PROTECTION - NORTH
F101S	LEVEL 1 - FIRE PROTECTION - SOUTH
F102N	MEZZANINE LEVEL - FIRE PROTECTION - NORTH
F102S	MEZZANINE LEVEL - FIRE PROTECTION - SOUTH
F200	FIRE PROTECTION DETAILS AND SCHEDULES

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FIRE PROTECTION COVERSHEET

F000

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GENERAL NOTES:

1. ALL HAZARD LEVEL HATCHING SHOWN ON LEVEL 1 REGARDLESS OF CEILING HEIGHT.

KEYNOTES:

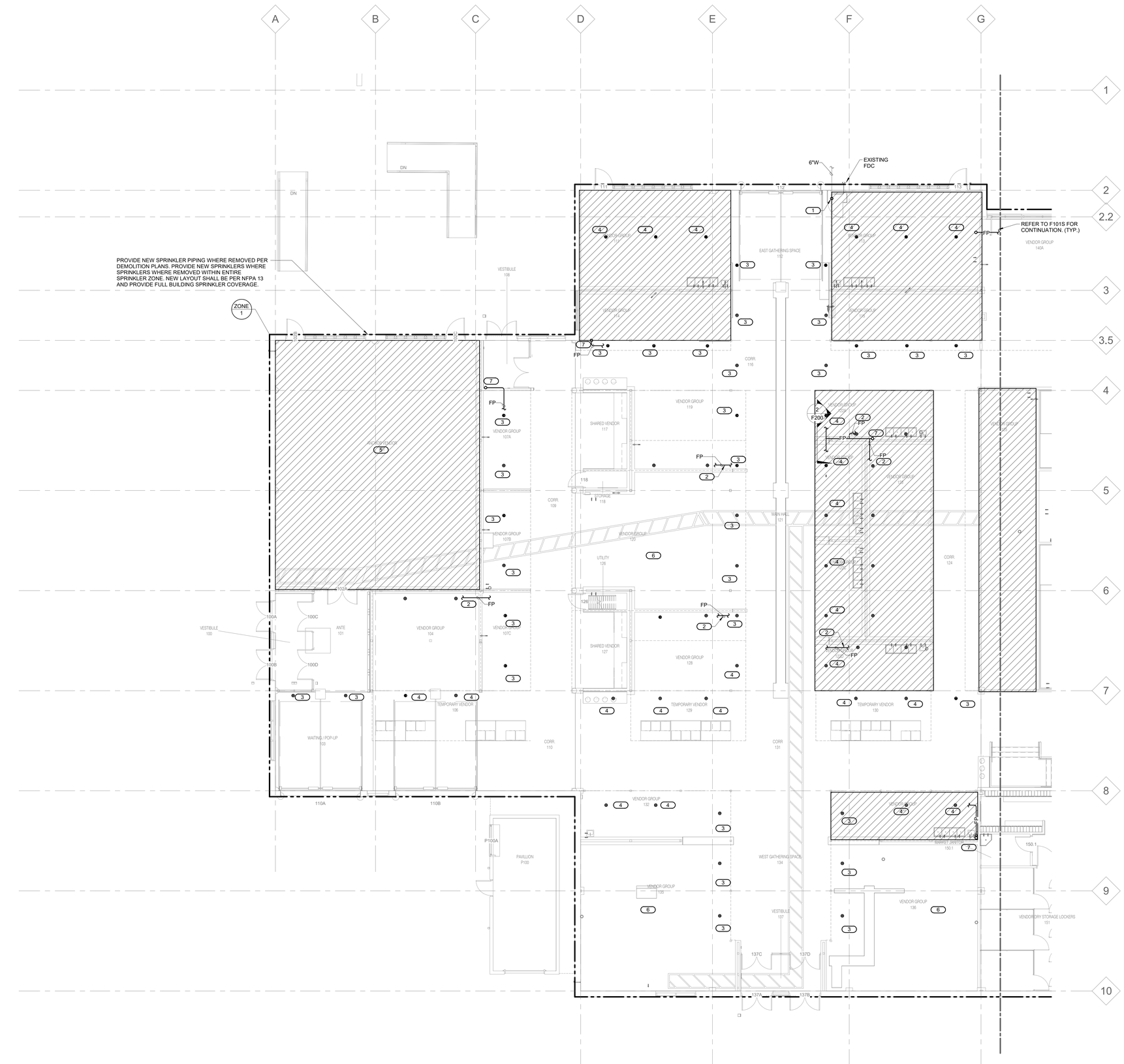
1. EXISTING FP SERVICE WITH FIRE DEPARTMENT CONNECTION, BACKFLOW PREVENTER, AND FLOW SWITCH SERVING BUILDING TO REMAIN. CONNECT NEW PIPING TO EXISTING.
2. PROVIDE BRANCH PIPING TIE TO SERVE CONCEALED SPRINKLERS HEADS IN ACRYLIC CEILINGS.
3. PROVIDE SPRINKLER COVERAGE IN GRATED STEEL CANOPY CEILING SYSTEM. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CANOPY CEILING LOCATIONS. SPRINKLER LOCATIONS SHOWN ARE FOR REFERENCE ONLY. FIRE PROTECTION CONTRACTOR RESPONSIBLE FOR FINAL LAYOUT TO BE IN COMPLIANCE WITH NFPA 13.
4. PROVIDE EXTENDED COVERAGE SPRINKLERS IN GRATED STEEL CANOPY CEILING SYSTEM. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CANOPY CEILING LOCATIONS. SPRINKLER LOCATIONS SHOWN ARE FOR REFERENCE ONLY. FIRE PROTECTION CONTRACTOR RESPONSIBLE FOR FINAL LAYOUT TO BE IN COMPLIANCE WITH NFPA 13.
5. EXPOSED PIPING IN THIS AREA TO BE PAINTED BLACK.
6. PROVIDE CAPPED TEE OFF FIRE PROTECTION MAIN FOR FUTURE CONNECTION.
7. FP DROP TO SERVE SPRINKLERS IN PERFORATED STEEL CANOPY SYSTEM. REFER TO 2/F200 AND 1/F102N FOR MORE DETAIL.

PROVIDE NEW SPRINKLER PIPING WHERE REMOVED PER DEMOLITION PLANS. PROVIDE NEW SPRINKLERS WHERE SPRINKLERS WHERE REMOVED WITHIN ENTIRE SPRINKLER ZONE. NEW LAYOUT SHALL BE PER NFPA 13 AND PROVIDE FULL BUILDING SPRINKLER COVERAGE.

ZONE 1

EXISTING FDC

REFER TO F101S FOR CONTINUATION. (TYP.)



1 LEVEL 1 - FIRE PROTECTION - NORTH

1/8" = 1'-0"

NORTH

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LEVEL 1 - FIRE PROTECTION - NORTH

F101N

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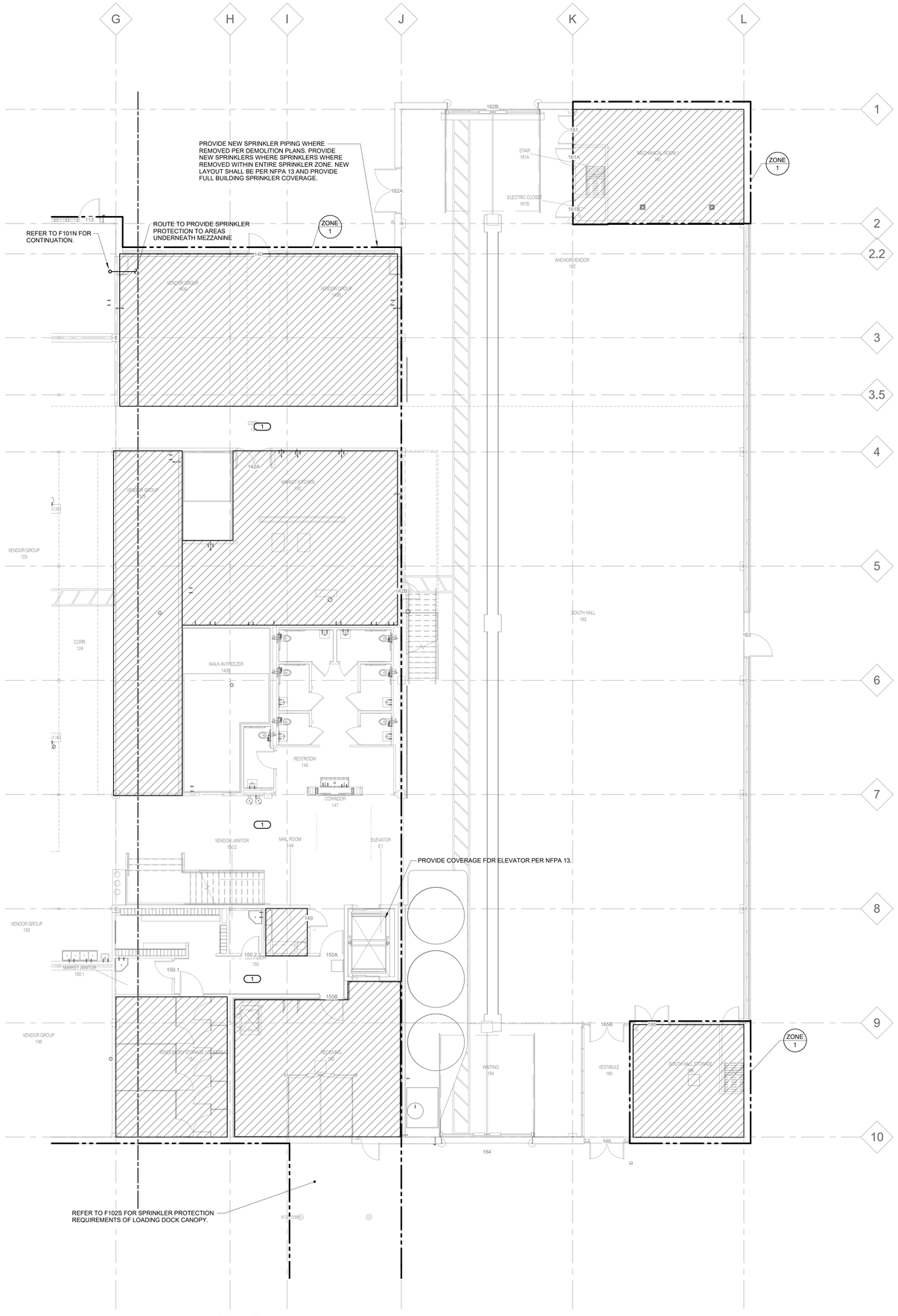

1 **LEVEL 1 - FIRE PROTECTION - SOUTH**
1/8" = 1'-0"

KEYNOTES:

1. FIRE PROTECTION PIPING AND SPRINKLERS BELOW MEZZANINE TO BE PAINTED WHITE.

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LEVEL 1 - FIRE PROTECTION - SOUTH

F101S

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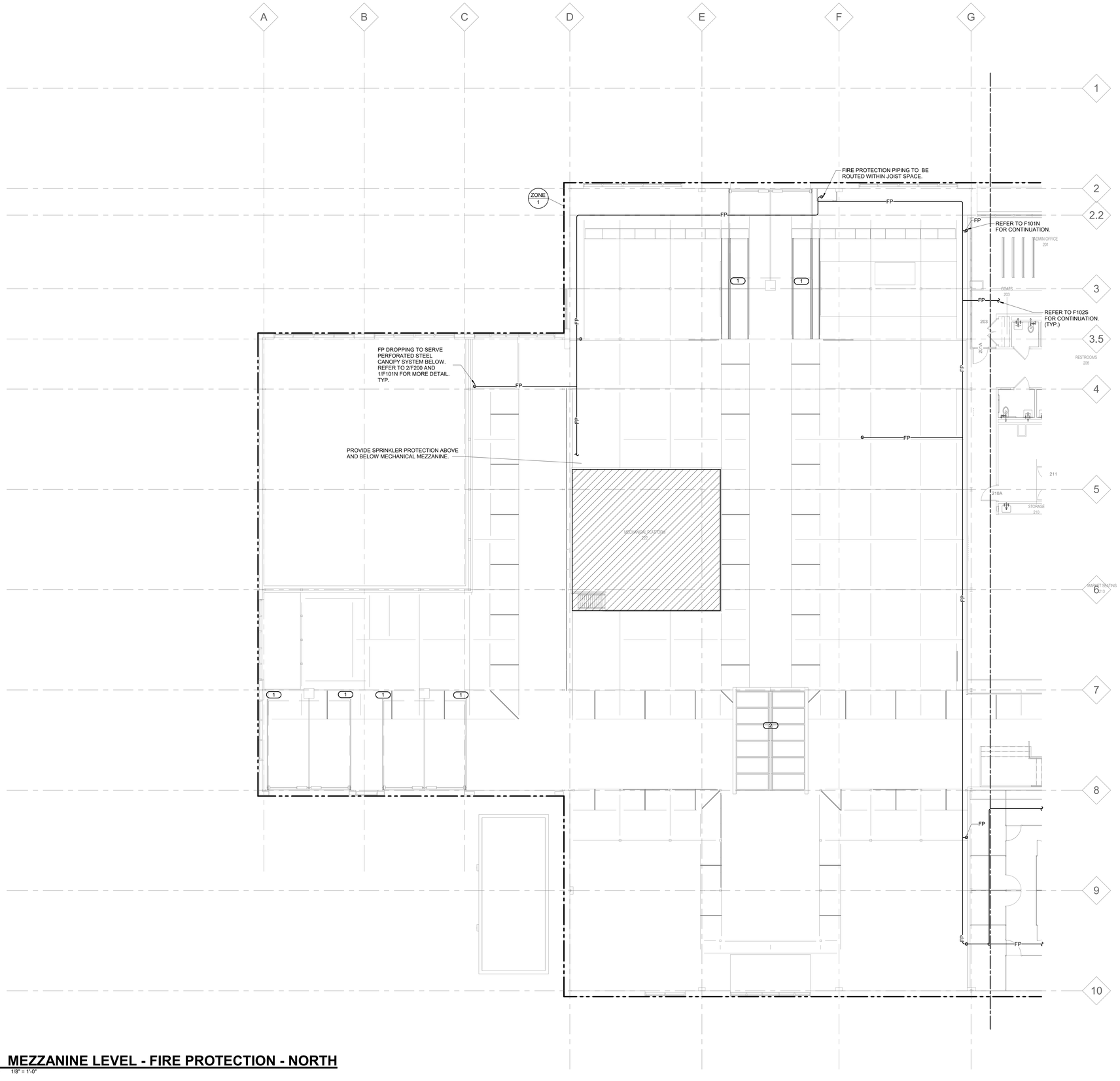

GENERAL NOTES:

1. ALL HAZARD LEVEL HATCHING SHOWN ON LEVEL 1 REGARDLESS OF CEILING HEIGHT.
2. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF OVERHEAD FANS. PROVIDE 4 SPRINKLER HEADS LOCATED EQUIDISTANT FROM THE CENTER OF THE FAN SO THAT THE FAN IS CENTERED BETWEEN THE 4 SPRINKLER HEADS. COORDINATE WITH APPROVED FAN SUBMITTALS.

KEYNOTES:

1. PROVIDE EXTENDED COVERAGE SIDEWALL SPRINKLERS TO PROVIDE PROTECTION UNDER OVERHEAD DOOR. LOCATE SPRINKLER NEAR FRAMING OF OVERHEAD DOOR. COORDINATE FINAL ROUTING WITH A/E.
2. REFER TO ARCH PLANS FOR SKYLIGHT DETAILS. PROVIDE SPRINKLER COVERAGE FOR SKYLIGHTS PER NFPA 13 REQUIREMENTS.

1 MEZZANINE LEVEL - FIRE PROTECTION - NORTH

1/8" = 1'-0"

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MEZZANINE LEVEL - FIRE PROTECTION - NORTH

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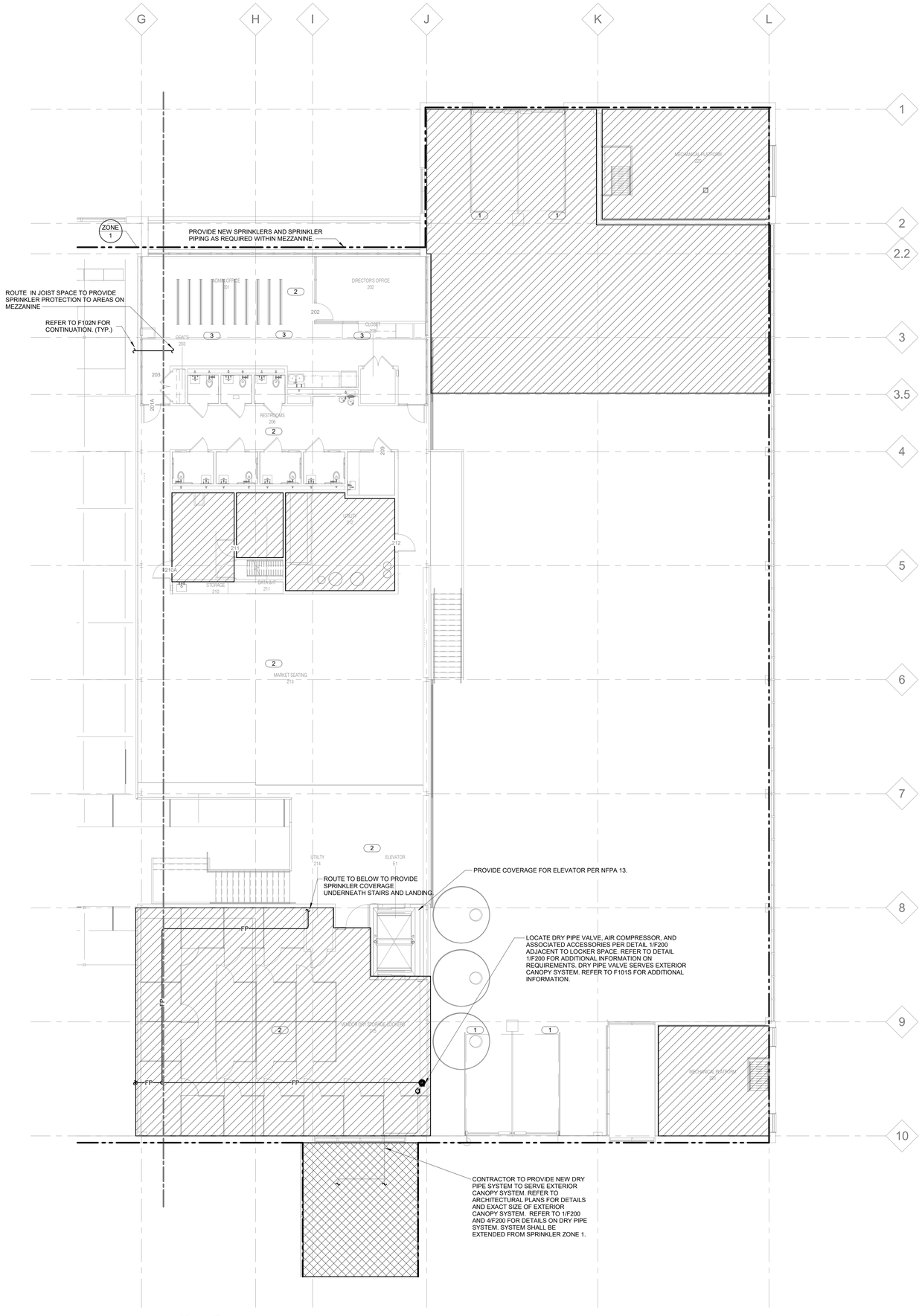

GENERAL NOTES:

1. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF OVERHEAD FANS. PROVIDE 4 SPRINKLER HEADS LOCATED EQUIDISTANT FROM THE CENTER OF THE FAN SO THAT THE FAN IS CENTERED BETWEEN THE 4 SPRINKLER HEADS. COORDINATE WITH APPROVED FAN SUBMITTALS.

KEYNOTES:

1. PROVIDE 4 SPRINKLER HEADS LOCATED EQUIDISTANT FROM THE CENTER OF THE FAN SO THAT THE FAN IS CENTERED BETWEEN THE 4 SPRINKLER HEADS. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF FANS. COORDINATE WITH APPROVED FAN SUBMITTALS.
2. FIRE PROTECTION PIPING AND SPRINKLERS ABOVE MEZZANINE TO BE PAINTED WHITE.
3. JOIST SPACE OCCUPIED BY DUCTWORK. COORDINATE BRANCH PIPING TO SERVE ALL SPACES ABOVE MEZZANINE WITHOUT ROUTING PIPING BELOW JOIST SPACE.
4. PROVIDE EXTENDED COVERAGE SIDEWALL SPRINKLERS TO PROVIDE PROTECTION UNDER OVERHEAD DOOR. LOCATE SPRINKLER NEAR FRAMING OF OVERHEAD DOOR. COORDINATE FINAL ROUTING WITH A/E.

1 MEZZANINE LEVEL - FIRE PROTECTION - SOUTH

1/8" = 1'-0"

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MEZZANINE LEVEL - FIRE PROTECTION - SOUTH

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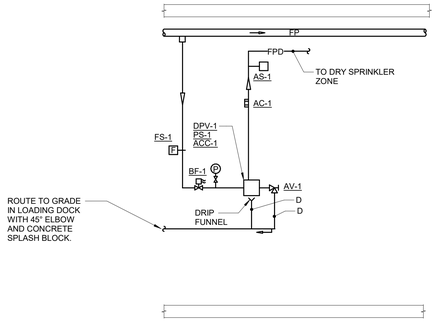
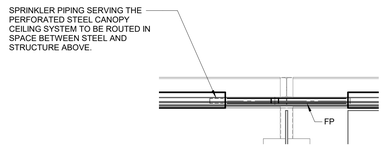


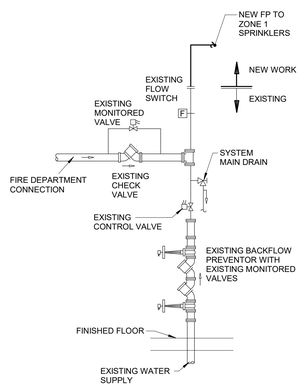
1 FIRE PROTECTION RISER DIAGRAM

12" = 1'-0"



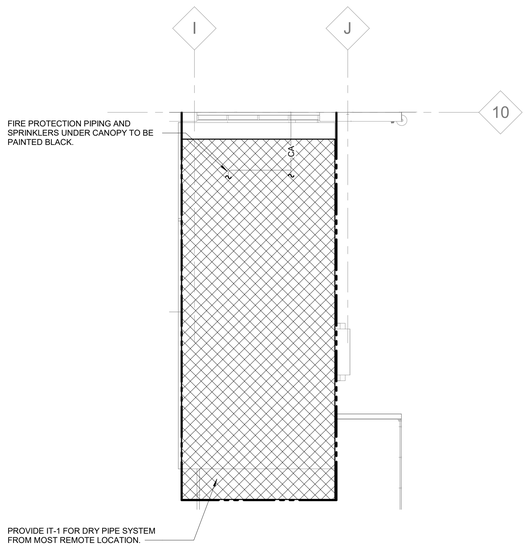
2 SPRINKLER PIPING ABOVE CANOPY SYSETEM

1/2" = 1'-0"



3 FIRE PROTECTION RISER DIAGRAM

NO SCALE



4 MEZZANINE LEVEL - FIRE PROTECTION - LOADING DOCK

1/8" = 1'-0"

FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	MANF. & MODEL
AC-1	MAINTENANCE AIR COMPRESSOR, SINGLE STAGE, AIR COOLED, OIL-LESS, SINGLE POLE DOUBLE THROW PRESSURE SWITCH WITH 1.5-75 PSI ADJUSTABLE RANGE, RELIEF VALVE SET FOR 65 PSI, AND MOUNTING BRACKET. 1/4 HP 115 V, 1 PHASE, DIRECT DRIVE, PERMANENTLY LUBRICATED BEARINGS. CAPACITY: 2.0 SCFM AT 0 PSI AND 1.4 SCFM AT 50 PSI, UL.	VIKING 08650 RELIABLE MODEL A
ACC-1	ACCELERATOR, 250 PSI, PILOT OPERATED, 1500 GALLON MAXIMUM SYSTEM CAPACITY, AUTOMATIC OR MANUAL RESET, INTEGRAL OR EXTERNAL ANTI-FLOOD DEVICE, UL. ACCELERATOR SHALL BE THE SAME MFR. OF DRY PIPE VALVE. PROVIDE ALL REQUIRED TRIM FOR PROPER SYSTEM OPERATION.	VIKING E-1/B-1, TYCO ACC-1, RELIABLE B-1, VICTUALIC SERIES 746-LPA, GLOBE MODEL C/D
AS-1	AIR SUPERVISORY SWITCH (HIGH/LOW), 10 TO 175 PSI ADJUSTABLE RANGE, 2 TO 5 PSI ACTUATION DIFFERENTIAL, DUAL SINGLE POLE DOUBLE THROW SNAP ACTION SWITCH, METAL HOUSING, INDOOR/OUTDOOR RATED, UL.	VIKING 09473, POTTER PS40A, RELIABLE J54A-8305.
AV-1	ANGLE VALVE, 1/2" TO 2", 175 PSI, RISING STEM, BRASS/BRONZE BODY, BRASS/BRONZE BONNET, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED. UL.	UNITED BRASS WORKS 126SUL, NIBCO T-301-W, FPPI 06-800
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE, DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL. LUGGED OR WAFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.	NIBCO GD-4765-8N, VICTUALIC SERIES 705, TYCO BFV-300, KENNEDY G300, GLOBE GLR300G, REL-BFG-300
DPV-1	DRY PIPE VALVE, 3" GROOVED OR FLANGED, 175 PSI WP, AIR PRESSURE TO WATER PRESSURE AREA DIFFERENTIAL IS APPROXIMATELY 6 TO 1, EPDM RUBBER TO BRASS AIR AND WATER SEATS, SPRING-LOADED CLAPPER WITH FULLY OPEN LATCH, 1" NPT TAPPED OUTLET, UL.	VIKING F-1, TYCO DPV-1, RELIABLE D.
FS-1	FLOW SWITCH - VANE TYPE, 450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RETARD ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, UL.	POTTER VSR, SYSTEM SENSOR WFD
IT-1	COMBINATION INSPECTOR'S TEST AND DRAIN VALVE, 300 PSI, INTEGRAL SIGHT GLASS, BALL VALVE PLATE INDICATING OFF-TEST-DRAIN POSITIONS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, PRESSURE RELIEF VALVE, UL.	AGF M1011A, RELIABLE MODEL TD, VICTUALIC TESTMASTER, GLOBE UTD W/ MODEL ARV PRV
PS-1	WATERFLOW PRESSURE SWITCH 250 PSI, 4 TO 15 PSI FIELD ADJUSTABLE PRESSURE RANGE, 2 PSI ACTUATION DIFFERENTIAL, TWO SINGLE POLE DOUBLE THROW CONTACTS, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, BLEEDER VALVE, UL.	POTTER PS10, SYSTEM SENSOR EPS10

FIRE SPRINKLER USAGE SCHEDULE

NOTES:
1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
2. SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
3. ALL SPRINKLERS SHALL BE UL LISTED.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
5. SYMBOL IS PRIMARILY FOR INDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6. SPRINKLERS SHALL HAVE A 3mm QUICK RESPONSE BULB.
7. ROUGH BRASS EXCEPT WHERE NOTED OTHERWISE ON FLOOR PLANS.

AREA TYPE (NOTE 1)	AREA HAZARD	SPRINKLER				TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
		TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH			
EXPOSED STRUCTURE	SEE PLANS	SPR-1	PENDENT	QUICK	NOTE 7	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTE 3
EXPOSED STRUCTURE	SEE PLANS	SPR-2	UPRIGHT	QUICK	NOTE 7	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	NOTE 3
AREAS WITH CEILINGS	SEE PLANS	SPR-3	RECESSED PENDENT	QUICK	WHITE	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTES 2, 3
VENDOR STALL CANOPY	SEE PLANS	SPR-4	RECESSED PENDENT	QUICK	BLACK	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTES 2, 3
EXTERIOR CANOPY	SEE PLANS	SPR-5	DRY PENDENT	QUICK	BLACK	155	VIKING VK, RELIABLE F3QR, TYCO DS, VICTAULIC V3606	NOTE 3, 6
EXTERIOR CANOPY	SEE PLANS	SPR-6	DRY UPRIGHT	QUICK	BLACK	155	VIKING VK, TYCO DS-1, VICTAULIC V3602	NOTE 3, 6
WALKIN COOLER/FREEZER	SEE PLANS	SPR-7	DRY RECESSED PENDENT	QUICK	BLACK	155	VIKING VK, RELIABLE F3QR, TYCO DS, VICTAULIC V3606	NOTES 2, 3, 6
RESTROOMS / MARKET KITCHEN	SEE PLANS	SPR-8	CONCEALED	STANDARD	WHITE	155	VIKING VK, RELIABLE G4FR, TYCO RFII, VICTAULIC V3802	NOTES 2, 3, 6
ACRYLIC CEILINGS	SEE PLANS	SPR-9	CONCEALED	QUICK	BLACK	200	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2710	NOTE 3

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FIRE PROTECTION DETAILS AND SCHEDULES

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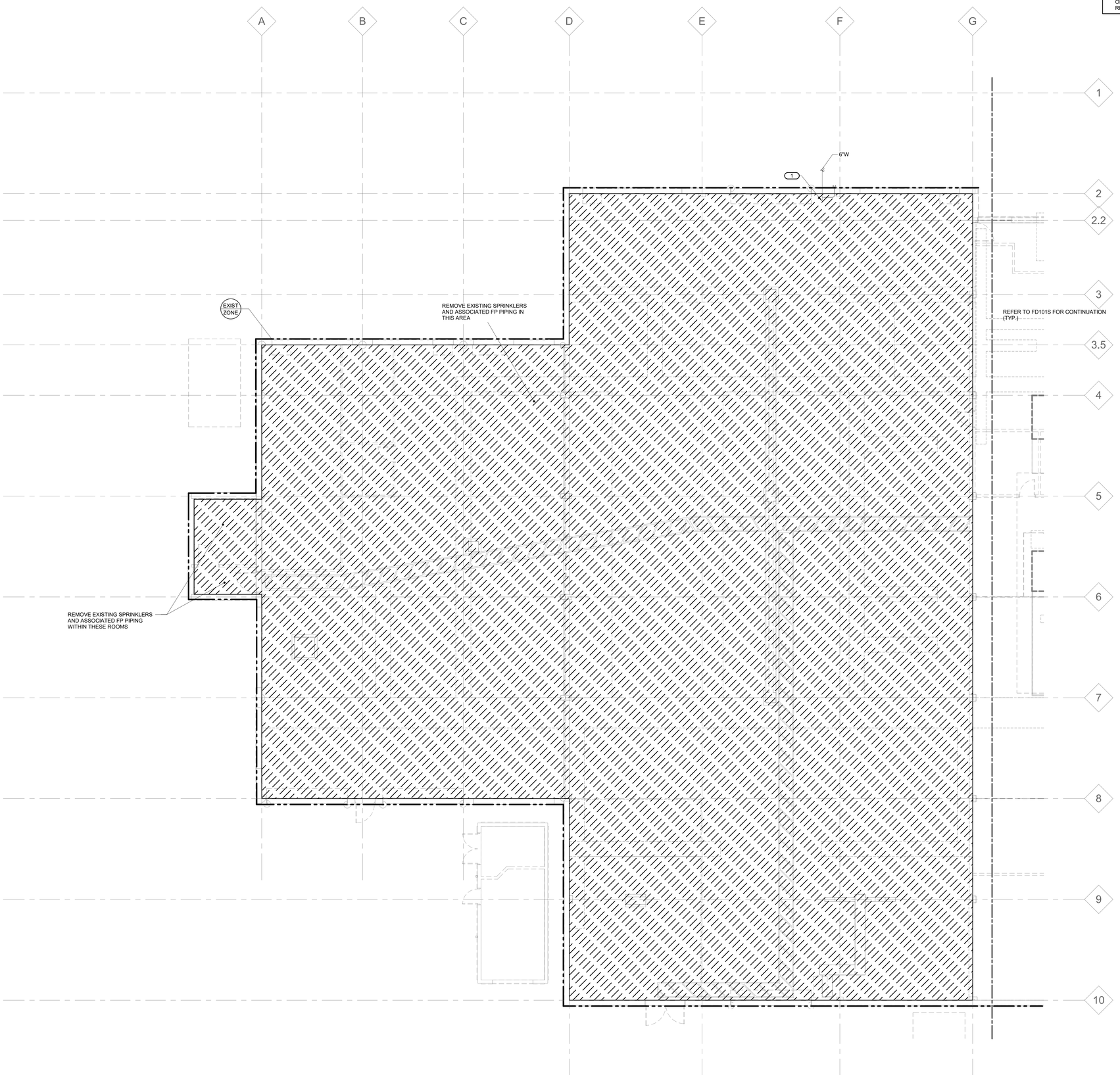
KEYNOTES: (#)

1. EXISTING FP SERVICE WITH FIRE DEPARTMENT CONNECTION, BACKFLOW PREVENTER AND FLOW SWITCH TO SERVE EXISTING BUILDING. CONTRACTOR TO REMOVE ALL PIPING DOWNSTREAM OF FLOW SWITCH. ALL PIPING UPSTREAM OF FLOW SWITCH TO REMAIN. REFER TO 3/FP200 FOR ADDITONAL DETAILS.



1 **LEVEL 1 DEMOLITION - FIRE PROTECTION - NORTH**
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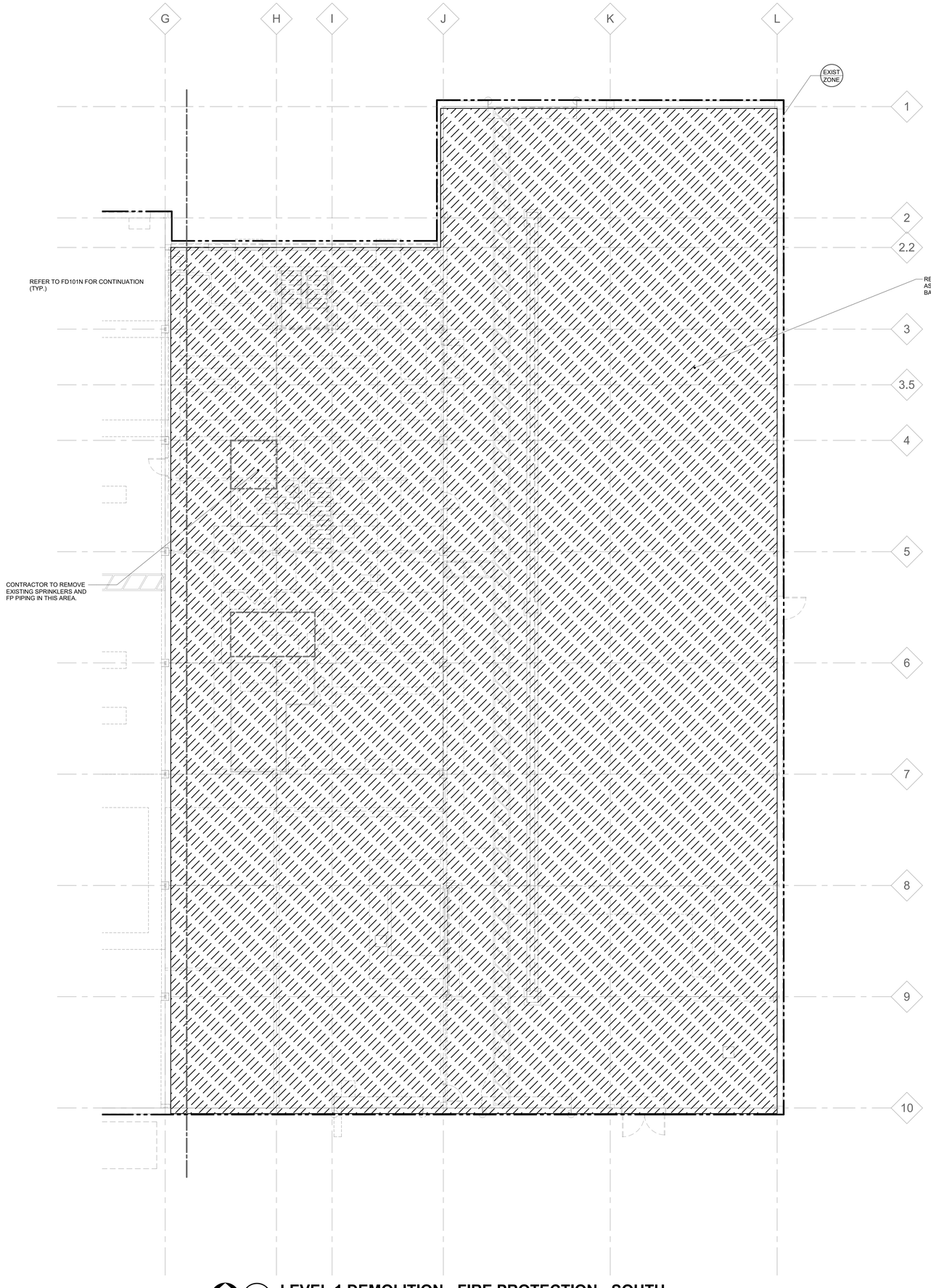

1 **LEVEL 1 DEMOLITION - FIRE PROTECTION - SOUTH**
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NORTH

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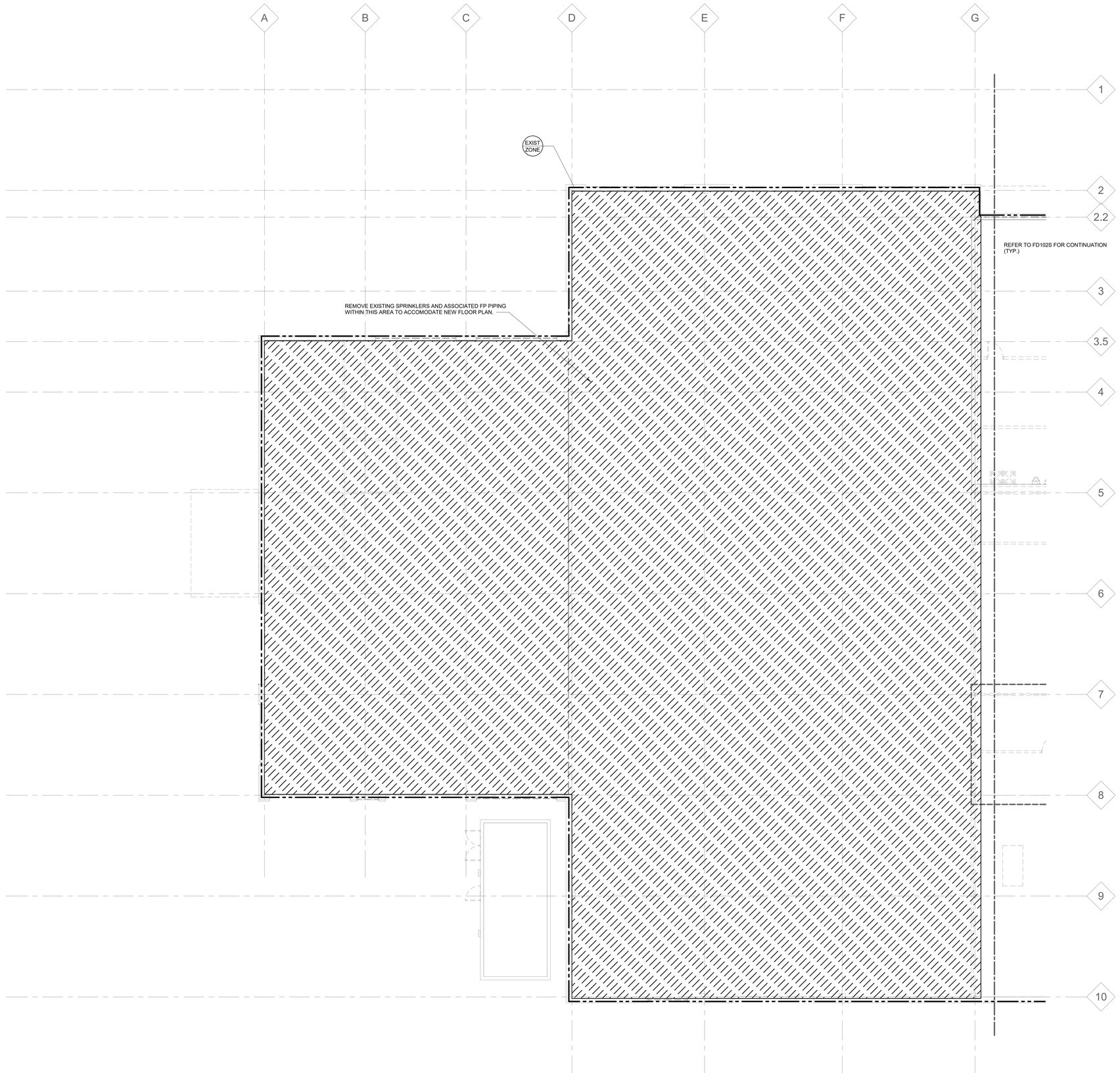

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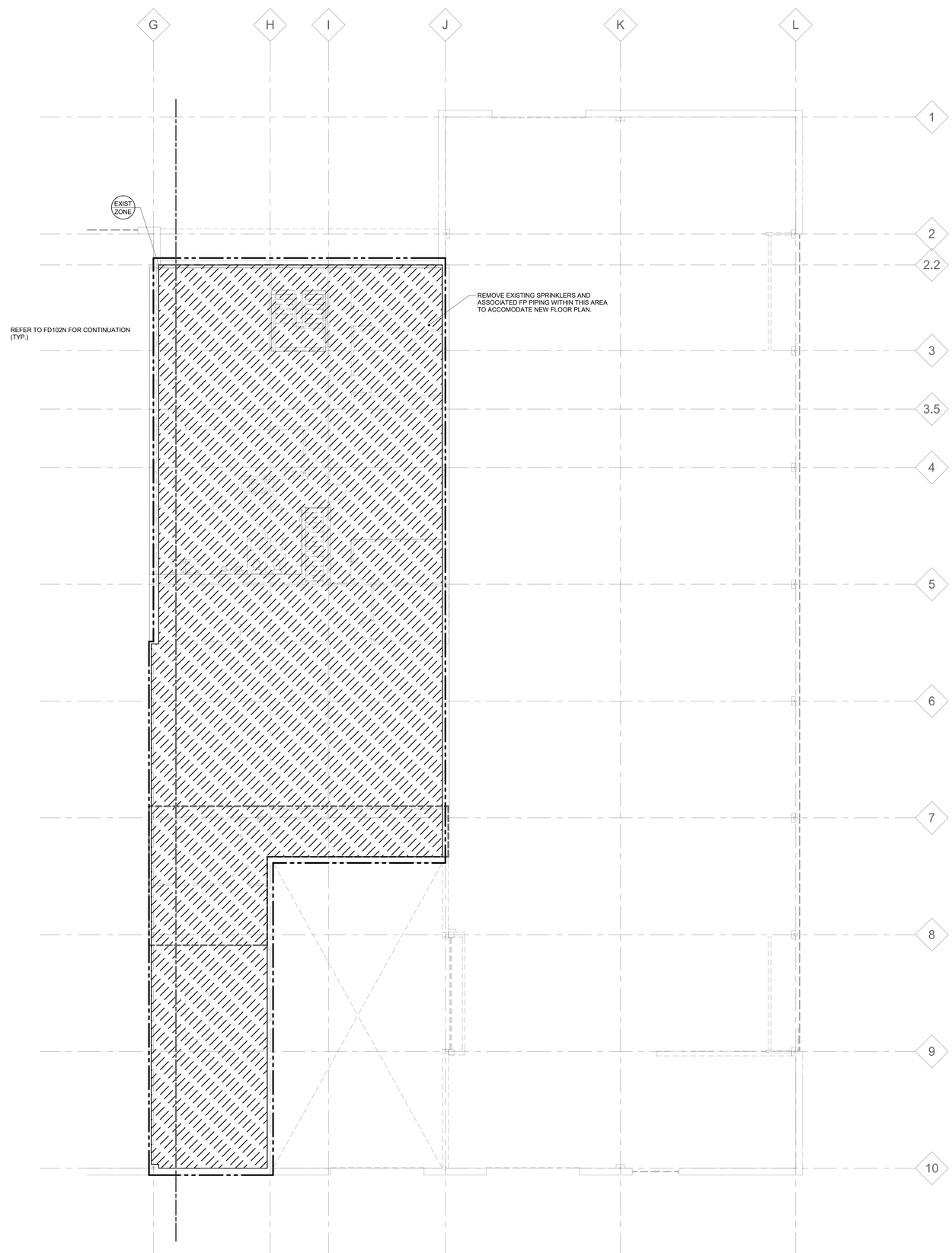
PROJECT #190005O7.00

MEZZANINE DEMOLITION - FIRE PROTECTION - NORTH

FD102N



1 **MEZZANINE DEMOLITION - FIRE PROTECTION - SOUTH**
1/8" = 1'-0"

NORTH

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

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Project No: 2019006.00

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MEZZANINE DEMOLITION - FIRE PROTECTION - SOUTH

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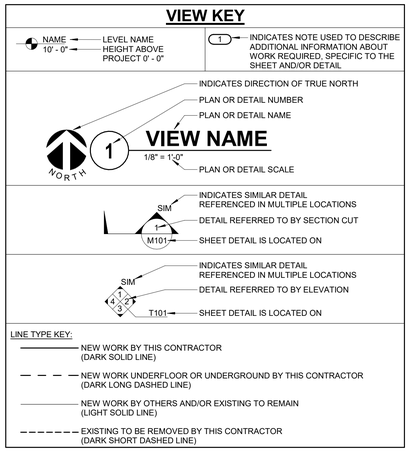


FIRE / SMOKE BARRIER DESIGNATIONS

REFER TO BUILDING CODE SUMMARY PLAN ON SHEET G004 FOR ALL FIRE SMOKE BARRIER DESIGNATIONS.

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
V.C.	VENTILATION CONTRACTOR

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
WP1	AV-WP1-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 1	.
SD1	N/A	SECURITY DEVICE ROUGH-IN (TYPE 1)	2. 4.
SD2	N/A	SECURITY DEVICE ROUGH-IN (TYPE 2)	3. 4.
CR1	AC-CR1-W	CREDENTIAL READER - TYPE 1	.
CR2	AC-CR2-W	CREDENTIAL READER - TYPE 2	.
DC	AC-DC-W	DOOR CONTACT	.
REX	AC-REX-W	REQUEST TO EXIT	.
AMS	AR-AMS-W	AREA OF RESCUE - ASSISTANCE MASTER STATION	.
AA1	AR-AA1-W	AREA OF RESCUE - ASSISTANCE CALL STATION - TYPE 1	.
RI-CAM	SC-CAM-C	INFORMATION OUTLET CAMERA ROUGH-IN (CEILING)	.
C#-WAP	SC-WAP-C	WIRELESS ACCESS POINT (CEILING)	1.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
RI	SC-RI-W	INFORMATION OUTLET ROUGH-IN (WALL)	.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETER⌀ C		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UP/DOWN	
		CONDUIT SLEEVE	
		CONTINUATION	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL NOTES:

1. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.
2. ROUGH-IN TO INCLUDE CREDENTIAL READER, ELECTRIFIED DOOR HARDWARE, DOOR POSITION SWITCH AND REQUEST TO EXIT. REFER TO 3/T300 FOR ADDITIONAL INFORMATION.
3. ROUGH-IN TO INCLUDE ELECTRIFIED DOOR HARDWARE, DOOR POSITION SWITCH AND REQUEST TO EXIT. REFER TO 3/T300 FOR ADDITIONAL INFORMATION.
4. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
TR-#	TELECOMMUNICATIONS ROOM

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	T.C.	T.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	T-SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
TR-1	2/T102S	T102S	211

TECHNOLOGY GENERAL NOTES:

1. ###-### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION".
2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H MOUNT ORIENTED HORIZONTALLY
- L MOUNT IN CASEWORK
- M MOUNT IN MODULAR FURNITURE
- S MOUNT IN SURFACE RACEWAY

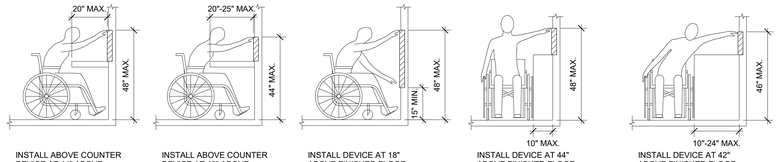
A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
9. CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 27 05 28 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
10. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

TECHNOLOGY SHEET INDEX

T000	TECHNOLOGY COVERSHEET
T050	SITE PLAN - TECHNOLOGY
T101N	LEVEL 1 - TECHNOLOGY - NORTH
T101S	LEVEL 1 - TECHNOLOGY - SOUTH
T102N	MEZZANINE LEVEL - TECHNOLOGY - NORTH
T102S	MEZZANINE LEVEL - TECHNOLOGY - SOUTH
T300	TECHNOLOGY DETAILS
T301	TECHNOLOGY DETAILS
T400	TECHNOLOGY RISERS
T500	TECHNOLOGY SCHEDULES



ADA STANDARDS FOR ACCESSIBLE DESIGN

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TECHNOLOGY COVERSHEET

T000

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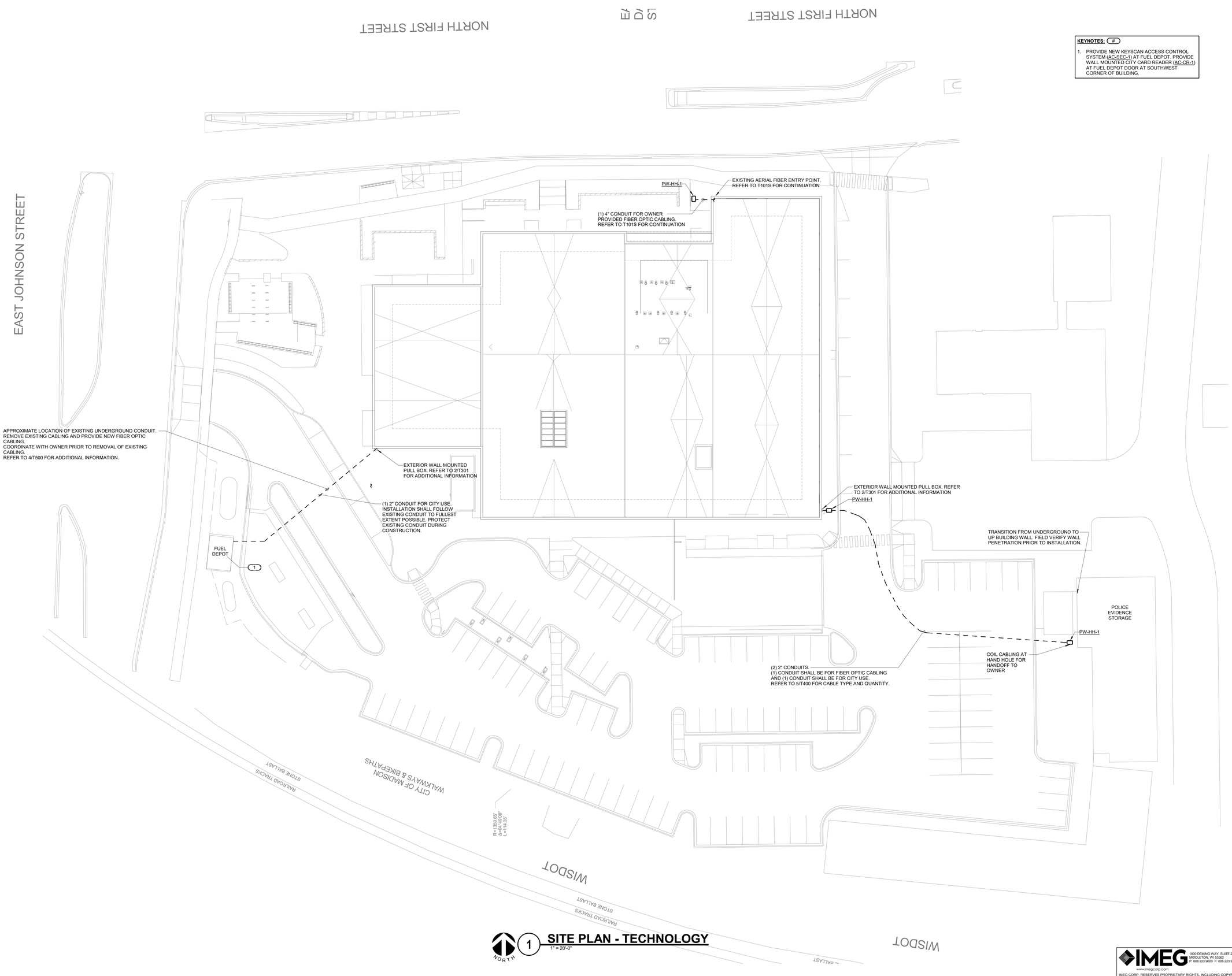

KEYNOTES: (#)

1. PROVIDE NEW KEYSCAN ACCESS CONTROL SYSTEM (AC-SEC-1) AT FUEL DEPOT. PROVIDE WALL MOUNTED CITY CARD READER (AC-CR-1) AT FUEL DEPOT DOOR AT SOUTHWEST CORNER OF BUILDING.

1 SITE PLAN - TECHNOLOGY
1" = 20'-0"

NORTH

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SITE PLAN - TECHNOLOGY

T050

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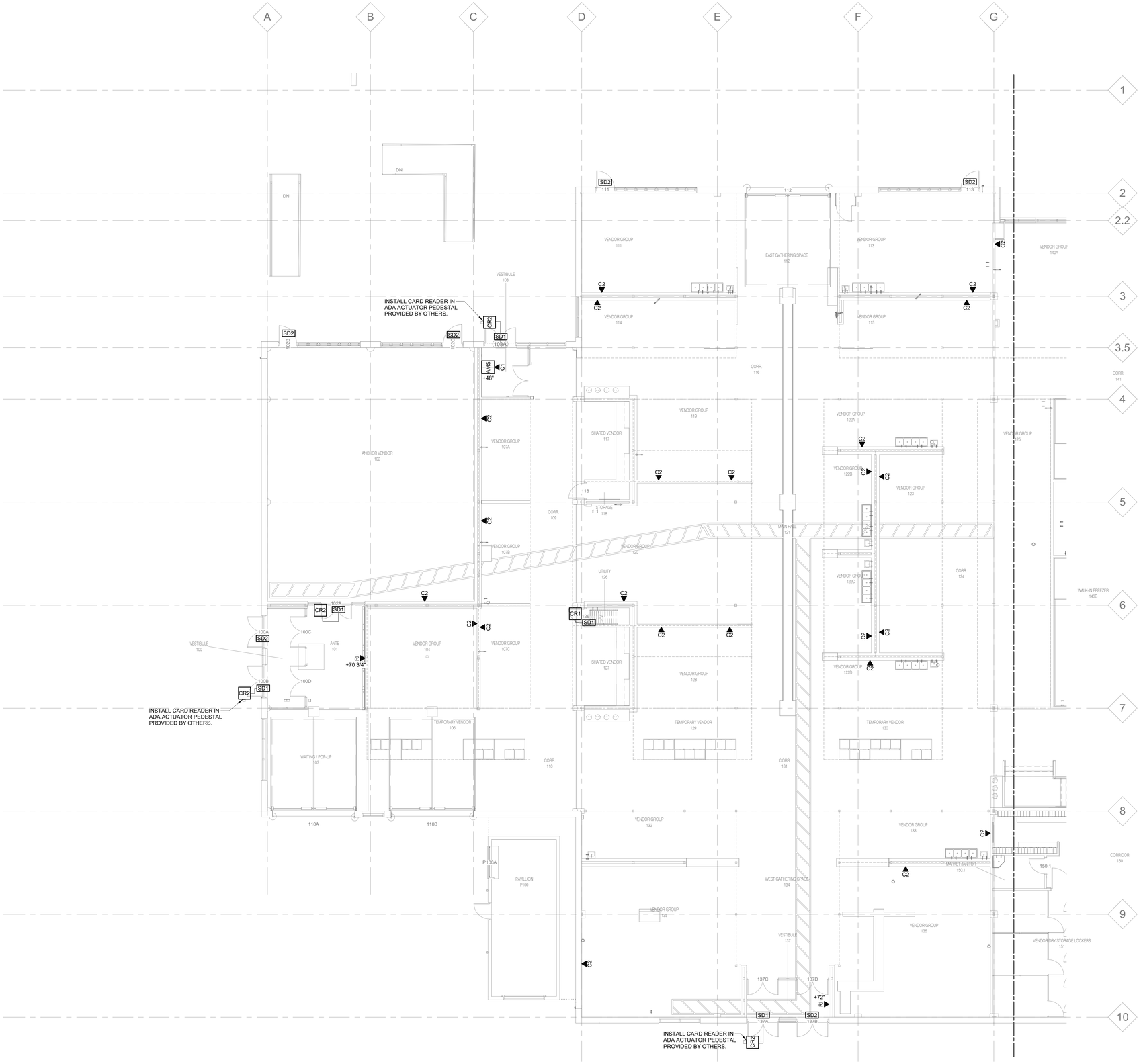
GENERAL NOTES :

1. ALL INFORMATION OUTLET CONDUITS SHALL BE ROUTED FROM OUTLET TO CABLE TRAY. REFER TO 2/T300 FOR ADDITIONAL INFORMATION.
2. VERIFY FINAL LOCATION OF ALL VENDOR AREA INFORMATION OUTLETS PRIOR TO ROUGH-IN. COORDINATE WITH OWNER AND ARCHITECT'S INDIVIDUAL VENDOR FIT OUT PLANS.



1 LEVEL 1 - TECHNOLOGY - NORTH

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LEVEL 1 - TECHNOLOGY - NORTH

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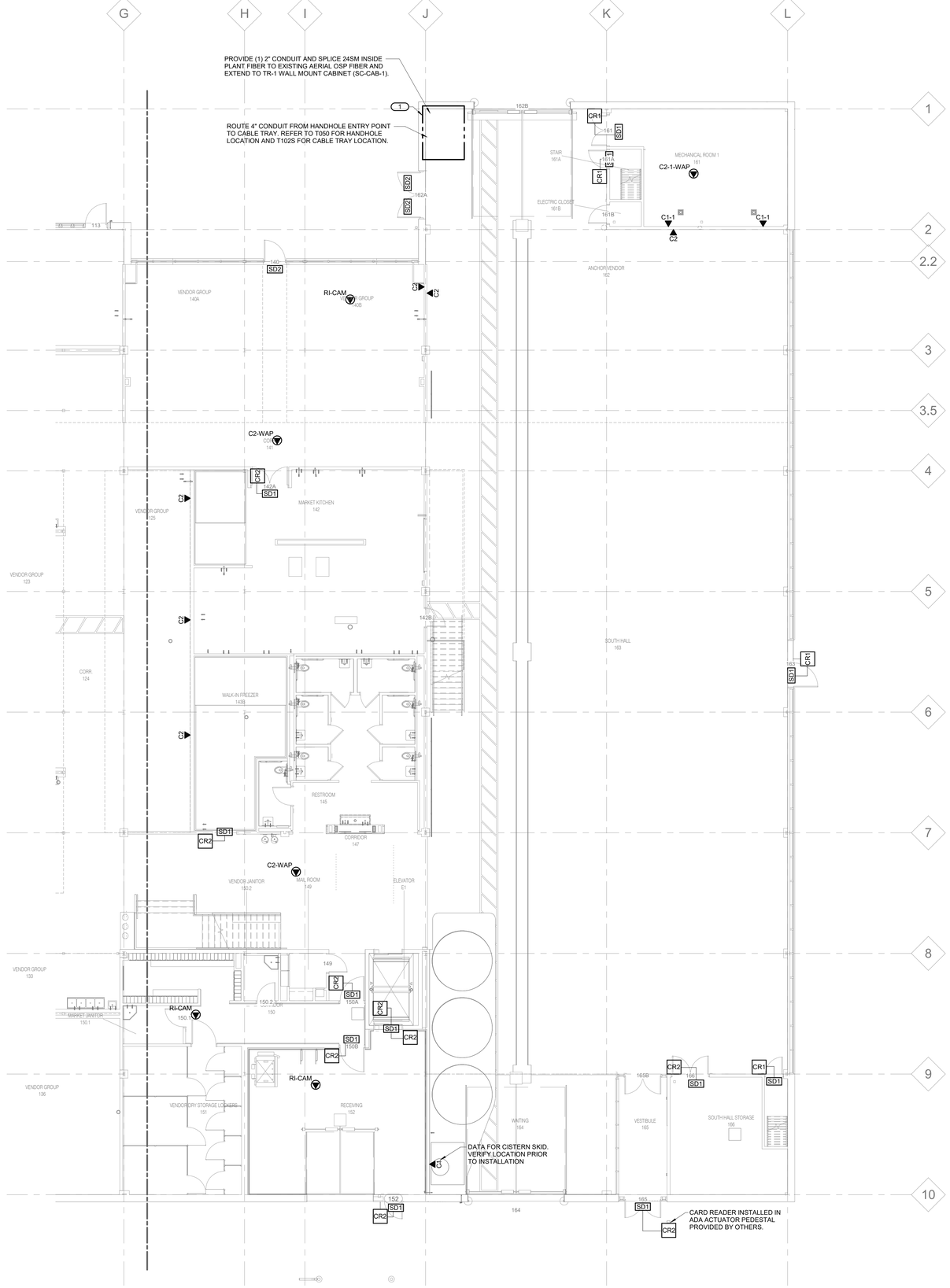

1 LEVEL 1 - TECHNOLOGY - SOUTH

1/8" = 1'-0"

NORTH

GENERAL NOTES :

1. ALL INFORMATION OUTLET CONDUITS SHALL BE ROUTED FROM OUTLET TO CABLE TRAY. REFER TO 2/T300 FOR ADDITIONAL INFORMATION.
2. VERIFY FINAL LOCATION OF ALL C2 VENDOR AREA INFORMATION OUTLETS PRIOR TO ROUGH-IN. COORDINATE WITH OWNER AND ARCHITECT'S INDIVIDUAL VENDOR FIT OUT PLANS.
3. VERIFY FINAL LOCATION OF C1-1 OUTLETS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

KEYNOTES: (#)

1. AERIAL FIBER OPTIC BUILDING ENTRANCE POINT.

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Mazzetti, Inc.

1999 Broadway, Suite 2205
Denver, CO 80202 | 720. 644. 5044

Commercial Kitchen Design

Boelter Premier

7120 Northland Terrace,
Minneapolis, MN 55428 | 763. 544. 8800

Project No: 20190606.00

MADISON PUBLIC MARKET

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PROJECT #190005507.00

LEVEL 1 - TECHNOLOGY - SOUTH

T101S

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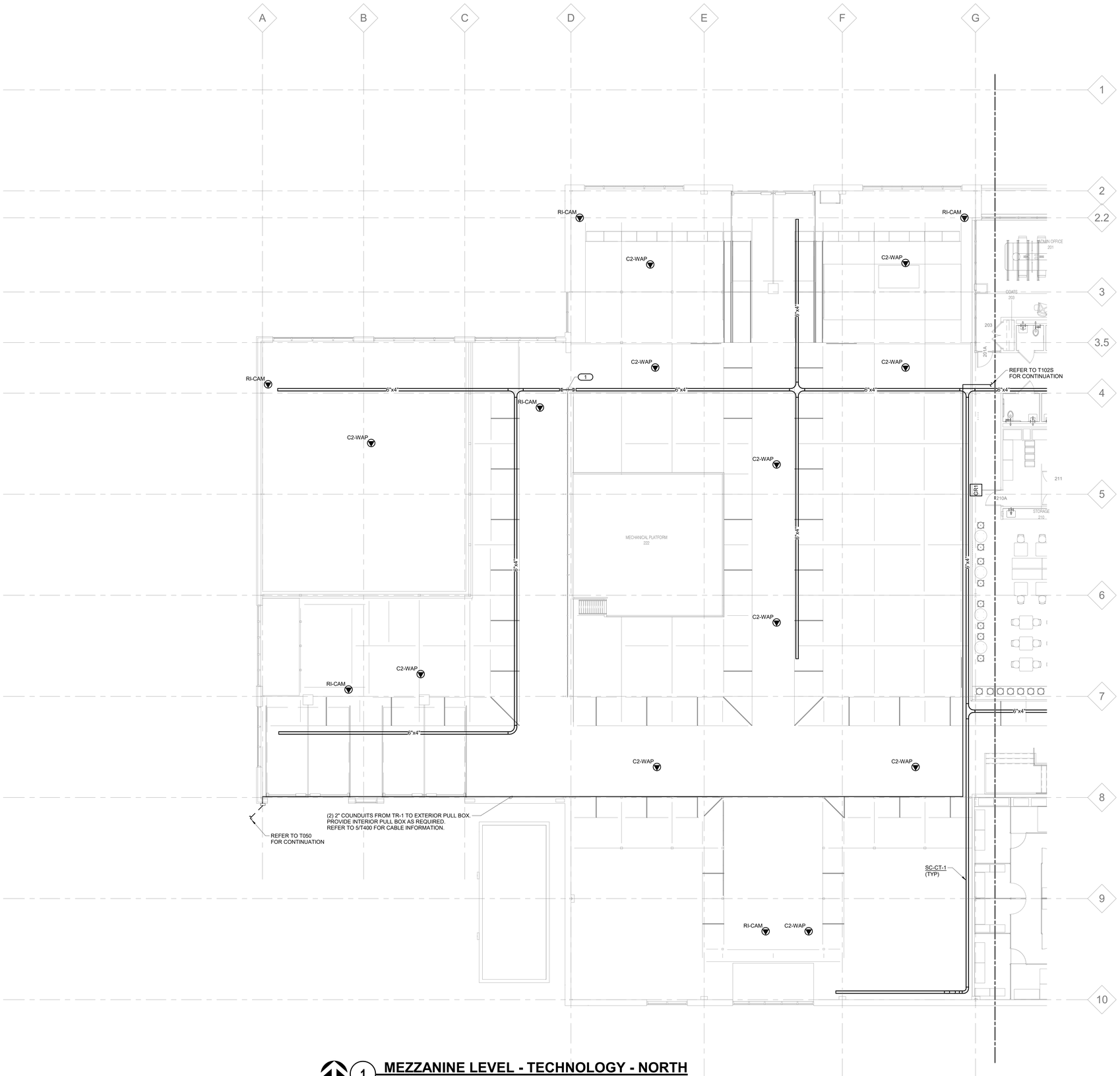
GENERAL NOTES :

1. CABLE TRAY SHALL BE INSTALLED THROUGH THE CEILING JOIST WHEN RUNNING PERPENDICULAR AND SUPPORTED BY UNISTRUT WHEN RUNNING PARALLEL.

KEYNOTES: #

1. (2) 2" CONDUITS, (1) 2" CONDUIT FOR SECURITY CABLING AND (1) 2" CONDUIT FOR STRUCTURED CABLING.



1 MEZZANINE LEVEL - TECHNOLOGY - NORTH

1/8" = 1'-0"

Architecture and Interiors

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510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612. 375. 0336

MEP Engineer

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2901 Metro Drive, Suite 225
Bloomington, MN 55425 | 651. 379. 9120

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Vierbicher
999 Fourier Dr, Suite 201,
Madison, WI 53717 | 608. 826. 0532

Landscape Architect

Ken Saiki Design
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Fire Protection Engineering, Technology and AV

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MEZZANINE LEVEL - TECHNOLOGY - NORTH

T102N

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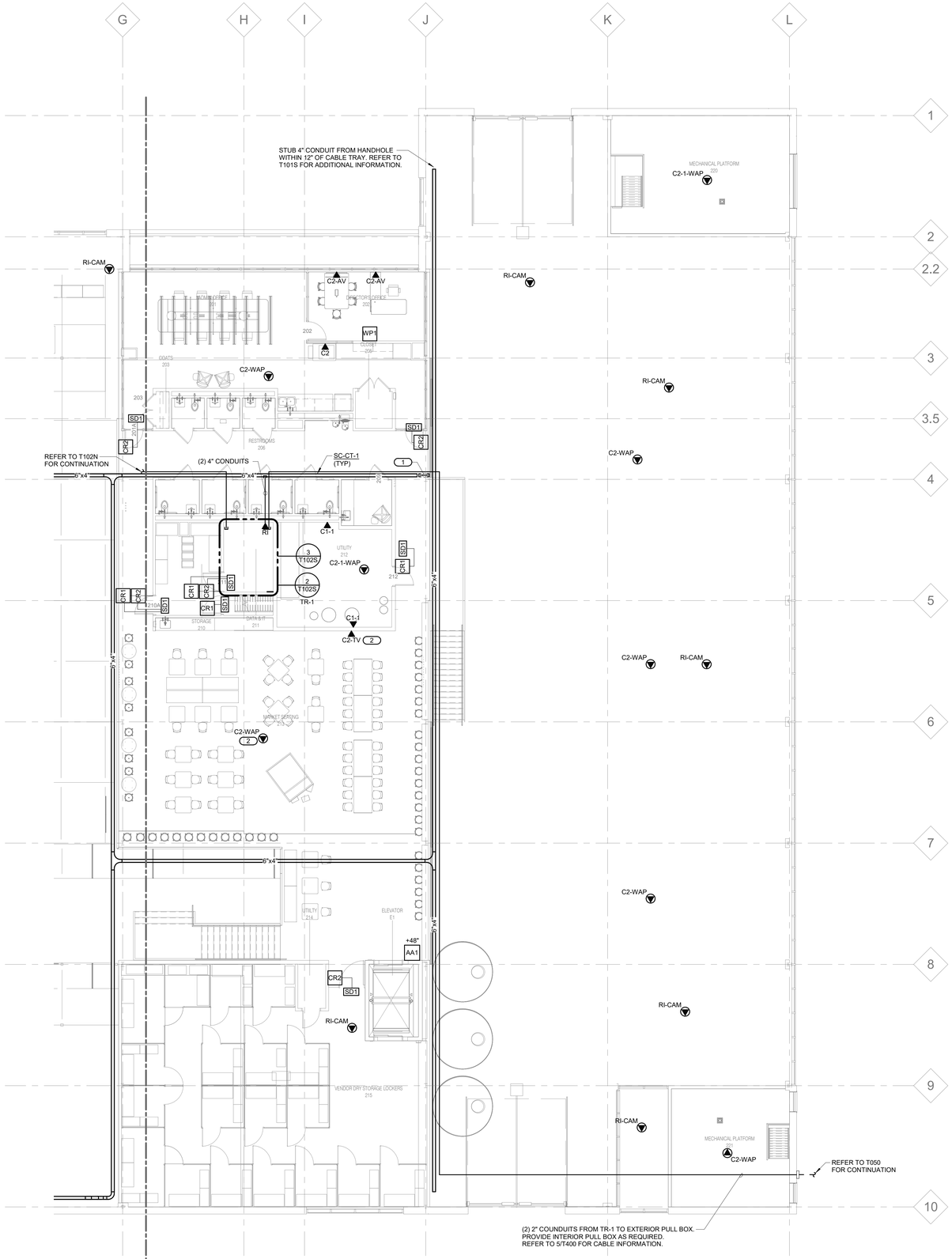
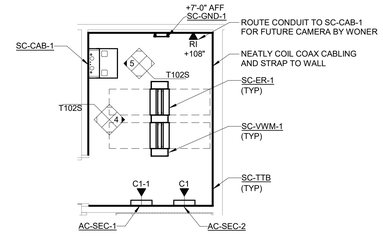


1 MEZZANINE LEVEL - TECHNOLOGY - SOUTH
1/8" = 1'-0"



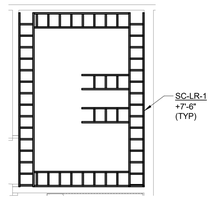
2 TELECOM ROOM LAYOUT - TR-1
1/4" = 1'-0"

GENERAL NOTES :

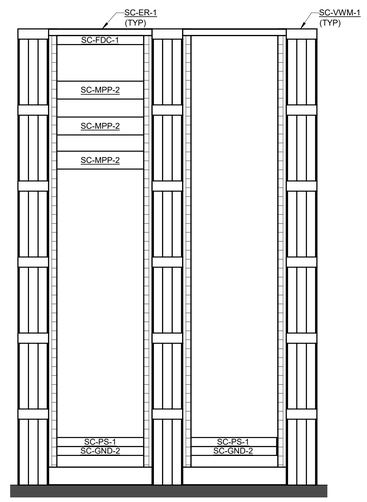
1. CABLE TRAY SHALL BE INSTALLED THROUGH THE CEILING JOIST WHEN RUNNING PERPENDICULAR AND SUPPORTED BY UNISTRUT WHEN RUNNING PARALLEL.

KEYNOTES: #

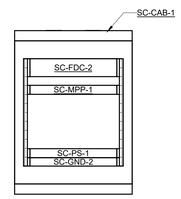
1. (2) 2" CONDUITS, (1) 2" CONDUIT FOR SECURITY CABLING AND (1) 2" CONDUIT FOR STRUCTURED CABLING.
2. ROUTE CONDUIT FROM BACKBOX TO TR-1 AND TERMINATE WITH NYLON BUSHING.



3 TELECOM ROOM PATHWAY - TR-1
1/4" = 1'-0"



4 EQUIPMENT RACK ELEVATION - TR-1
1" = 1'-0"



5 EQUIPMENT CABINET ELEVATION - TR-1
1" = 1'-0"

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Minneapolis, MN 55402 | 612. 375. 0336

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MEZZANINE LEVEL - TECHNOLOGY - SOUTH

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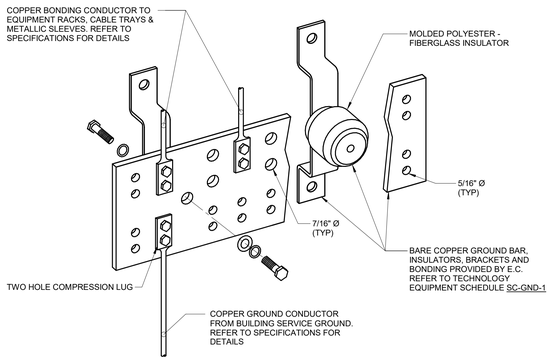
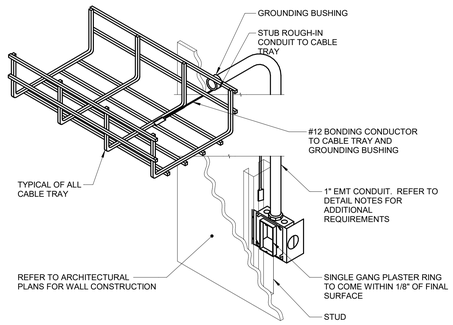


1 BONDING BUS BAR DETAIL

NO SCALE

NOTES:

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO 2/T400 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

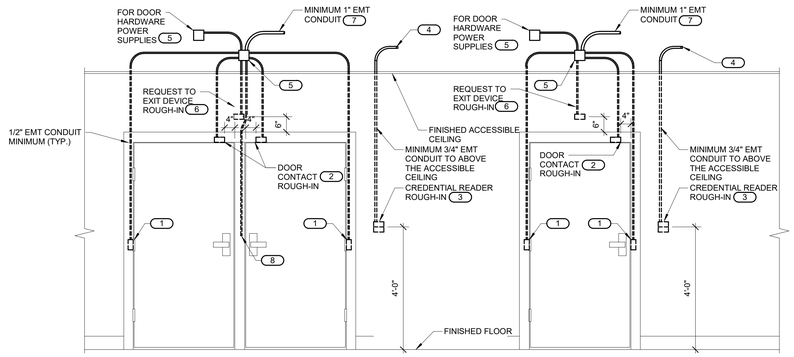


2 INFORMATION OUTLET ROUGH-IN TO CABLE TRAY DETAIL

NO SCALE

NOTES:

1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



3 SECURITY DOOR ROUGH-IN DETAIL

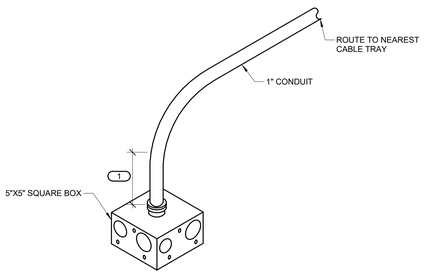
NO SCALE

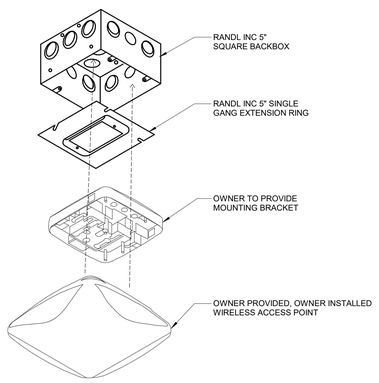
NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION.
3. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE RESPONSIBILITY FOR ADDITIONAL INFORMATION.

KEYNOTES: (#)

1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
3. DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS.
4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO NEAREST CABLE TRAY. PROVIDE A NYLON BUSHING ON CONDUIT END.
5. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX.
6. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR.
7. CONDUIT SHALL ROUTE TO NEAREST CABLE TRAY. PROVIDE A NYLON BUSHING ON CONDUIT END.
8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.





4 WIRELESS ACCESS POINT ROUGH-IN DETAIL

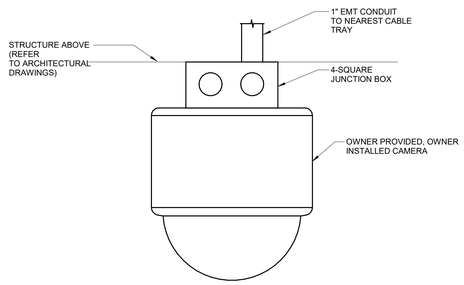
NO SCALE

NOTES:

1. INDEPENDENTLY SUPPORT ROUGH-IN FROM STRUCTURE.

KEYNOTES: (#)

1. STUB VERTICAL CONDUIT TO A HEIGHT IN WHICH WIRELESS ACCESS POINT IS MOUNTED JUST BELOW STRUCTURE/FINISHED HANGING CEILING.



5 CEILING CAMERA ROUGH-IN DETAIL

NO SCALE

NOTES:

1. COORDINATE EXACT LOCATION OF CAMERA ON SITE WITH WORK BY OTHER TRADES TO ENSURE DESIRED VIEWING AREA AND SERVICE ACCESS AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED CAMERA OR ASSOCIATED CABLING.
2. CONDUIT SHALL STUB TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT. WHERE CONDUIT STUBS THROUGH A WALL IN TO A CORRIDOR, THE CONDUIT SHOULD EXTEND NOT MORE THAN 2-4 INCHES IN TO THE CORRIDOR. WHERE CONDUIT STUBS TO AN ASSOCIATED CABLE TRAY, CONDUIT SHOULD EXTEND TO CABLE TRAY. ALL CONDUITS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
3. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR CAMERA ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

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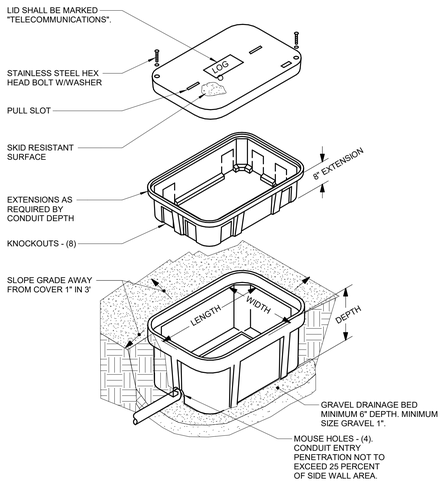
TECHNOLOGY DETAILS

T300

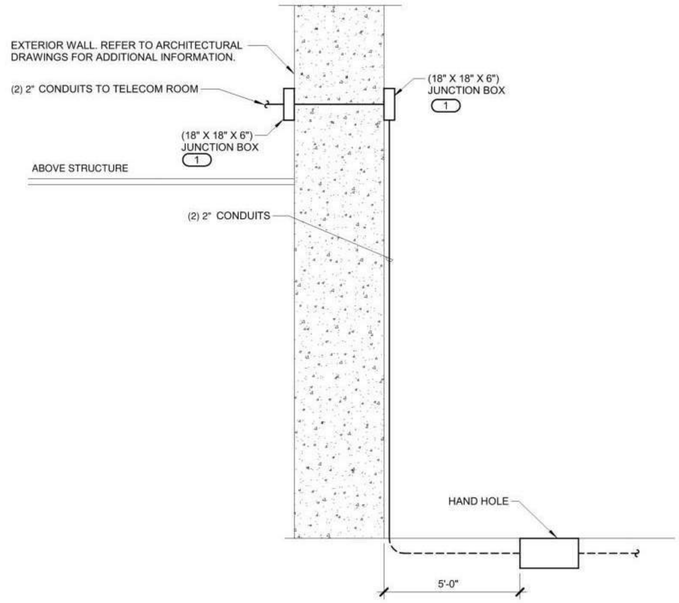


1 EXTERIOR HAND HOLE DETAIL

NO SCALE

NOTES:

1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE.



2 EXTERIOR PATHWAY DETAIL

NO SCALE

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TECHNOLOGY DETAILS

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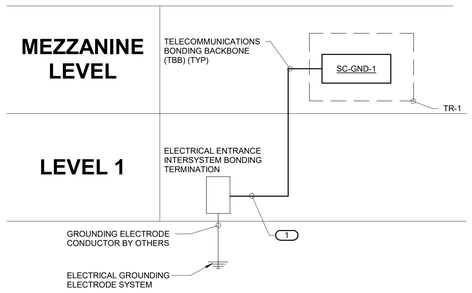


1 TECHNOLOGY BONDING RISER DIAGRAM

NO SCALE

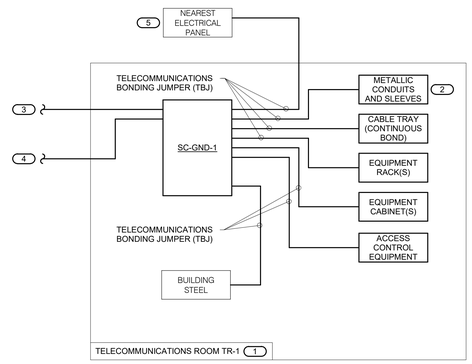
NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 2/T400 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.

KEYNOTES: (#)

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

BONDING CONDUCTOR SIZING SCHEDULE	
CONDUCTOR LENGTH IN FEET	**MINIMUM ACCEPTABLE SIZE - AWG**
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0



2 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

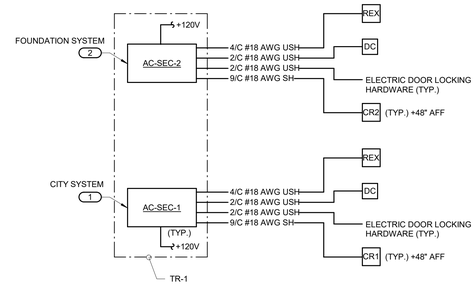
NO SCALE

NOTES:

1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG [PLENUM RATED] COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO 1/T300 FOR BONDING BUS BAR DETAIL AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SC-GND-1.

KEYNOTES: (#)

1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB). REFER TO 1/T400 FOR TECHNOLOGY BONDING RISER DIAGRAM.
4. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 1/T400 FOR TECHNOLOGY BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS. THIS CONNECTION OCCURS IN TR-1 ONLY.
5. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.



3 ACCESS CONTROL RISER DIAGRAM

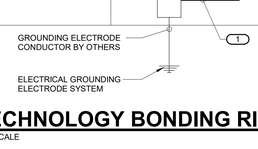
NO SCALE

NOTES:

1. THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES REQUIRED DUE TO THE T.C.'S SELECTION OF AN ALTERNATE MANUFACTURER, INCLUDING ANY POWER REQUIRED FOR FIELD LOCATED SECURITY CONTROLLERS, SHALL BE INCLUDED IN THE T.C.'S BID.
2. ALL WORKSTATIONS AND SERVERS REQUIRE A KEYBOARD AND MOUSE.

KEYNOTES: (#)

1. CITY CONTROLLED ACCESS CONTROL SYSTEM. PROVIDE (1) CATEGORY 6 CABLE FROM AC-SEC-1 TO MODULAR PATCH PANEL IN SC-CAB-1. AC-SEC-1 SHALL LEVERAGE THE CITY'S EXISTING SERVER.
2. FOUNDATION CONTROLLED ACCESS CONTROL SYSTEM. PROVIDE (1) CATEGORY 6 CABLE FROM AC-SEC-2 TO MODULAR PATCH PANEL IN SC-ER-1. AC-SEC-2 SHALL BE FOR THE FOUNDATION ONLY AND WILL REQUIRE A LOCAL CONTRACTOR PROVIDED SERVER AND WORKSTATION.



4 AREA OF RESCUE RISER DIAGRAM

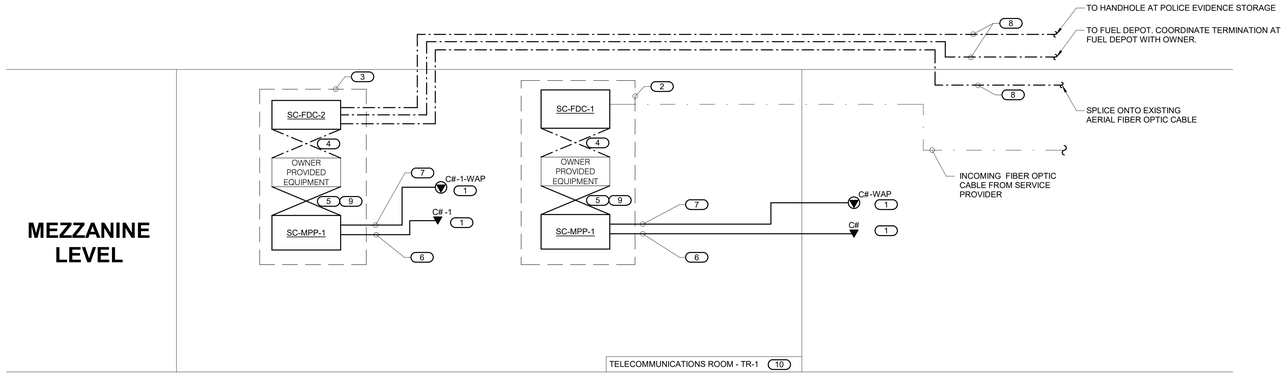
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND NOT INTENDED TO SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
2. CATEGORY 6 DATA PATCH CORD.
3. ONE (1) 2/16 AWG FOR REMOTE MONITORING OF THE AREA OF REFUGE MASTER STATION.
4. 110V POWER CONNECTION. COORDINATE LOCATION WITH E.C. PRIOR TO INSTALLATION.
5. 2-HOUR FIRE RATED CATEGORY 6 CABLE.



5 FIBER AND COPPER RISER DIAGRAM

NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

KEYNOTES: (#)

1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION. REFER TO ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. SC-ER-1 AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
3. SC-CAB-1 AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
4. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
5. RJ-45 TO RJ45 CATEGORY 6 UTP PATCH CORDS, REFER TO SPECIFIATIONS.
6. 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
7. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
8. 24SM FIBER OPTIC CABLE, REFER TO SPECIFICATIONS.
9. REFER TO SPECIFICATIONS FOR COPPER PATCH CORD REQUIREMENTS.
10. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.

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Project No: 2019006.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal

Print Name _____

Date _____ **License No** _____

BID DOCUMENTS

ISSUE / REVISION

Mark	Date	Description
1	2023.06.09	BID DOCUMENTS

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TECHNOLOGY RISERS

T400

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PROJECT #19000507.00

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GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	ACCESS CONTROL CREDENTIAL READER, WALL MOUNTED. PROXIMITY COMMUNICATIONS, MULTICOLOR LED, INTERNAL OR HOST CONTROL OF THE LED. REFER TO 3/T300 FOR CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL. REFER TO 3/T400 FOR CABLING REQUIREMENTS.	HID SIGNO 40K (NO EXCEPTIONS)
AC-CR2-W	ACCESS CONTROL CREDENTIAL READER, WALL MOUNTED. PROXIMITY COMMUNICATIONS, MULTICOLOR LED, INTERNAL OR HOST CONTROL OF THE LED. REFER TO 3/T300 FOR CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL.	HID SIGNO 40K (NO EXCEPTIONS)
AC-DC-W	ACCESS CONTROL DOOR CONTACT SWITCH. REFER TO 3/T400 ACCESS CONTROL RISER DIAGRAM FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	REFER TO SPECIFICATION SECTION 28 13 00
AC-REX-W	ACCESS CONTROL REQUEST TO EXIT DEVICE. REFER TO 3/T400 ACCESS CONTROL RISER DIAGRAM FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	REFER TO SPECIFICATION SECTION 28 13 00
AC-SEC-1	ACCESS CONTROL SECURITY SYSTEM CONTROL PANEL. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR DISTRIBUTION SUPPLY PANEL (AC-DS-1) AND POWER SUPPLY PANEL (AC-PS-1) REQUIREMENTS.	KEYSCAN ACCESS CONTROL SYSTEM NO SUBSTITUTIONS
AC-SEC-2	ACCESS CONTROL SECURITY SYSTEM CONTROL PANEL. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR DISTRIBUTION SUPPLY PANEL (AC-DS-1) AND POWER SUPPLY PANEL (AC-PS-1) REQUIREMENTS.	KEYSCAN ACCESS CONTROL SYSTEM NO SUBSTITUTIONS
AR-AA1-W	AREA OF RESCUE CALL STATION. REFER TO SPECIFICATION SECTION 28 26 05 FOR ADDITIONAL INFORMATION. REFER TO 4/T400 FOR AREA OF RESCUE RISER DIAGRAM.	CORNELL 4800V
AR-AMS-W	AREA OF RESCUE MASTER STATION. REFER TO SPECIFICATION SECTION 28 26 05 FOR ADDITIONAL INFORMATION. REFER TO 4/T400 FOR AREA OF RESCUE RISER DIAGRAM.	CORNELL A-4800 ENCLOSURE: CORNELL BB-48
AV-WP1-W	WALL BOX, FLUSH MOUNT. DIMENSIONS: 14.25" x 7" x 4". (3) SINGLE GANG KNOCKOUTS AND (1) IPS KNOCKOUT TO MOUNT UP TO SIX SINGLE IPS PLATES. PROVIDE (1) 0.75" EMT CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1.25" CONDUIT FOR AV.	FSR PWB-250
PW-HH-1	HANDHOLE COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE BOLTED NON-SKID COVER RATED FOR 15,000LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. STACK UNITS TO ACHIEVE DEPTH SHOWN ON PLANS. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. "COMMUNICATIONS" LOGO ON HANDHOLE COVER. CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATIONS. REFER TO 6/T300 FOR DETAIL. PW-HH-1 = 24"WX24"L.	HUBBELL/QUAZITE PG2424BB24 PG2424HA00 CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH
SC-CAB-1	WALL MOUNTED ENCLOSED CABINET, 24"H X 22.6"W X 36"D, DOOR MOUNTED ACRYLIC SMOKE TINTED WINDOW, FRONT AND REAR SECTION KEYED SEPARATELY AND ALIKE, LOUVERED SIDES, 19" PANEL MOUNTING, UNIVERSAL MOUNTING RAILS, (4) KNOCKOUTS IN TOP AND BOTTOM, TWO-HINGE DESIGN FOR FRONT-TO-REAR ACCESS, 250LB LOAD CAPACITY, PROVIDES (12) 1.75" MOUNTING SPACES.	HUBBELL HSQ24 SYSTIMAX SIEMON BERK-TEK ORTRONICS
SC-CAM-C	CEILING CAMERA ROUGH-IN. INSTALL A 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST CABLE TRAY AND TERMINATE WITH NYLON BUSHING UNLESS OTHERWISE NOTED. REFER TO 5/T300 FOR ADDITIONAL ROUGH-IN REQUIREMENTS.	ROUGH-IN ONLY
SC-CT-1	CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 6" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10' MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION.	COOPER B-LINE FLEXTRAY FT4x6x10 MONO-SYSTEMS CABLOFIL
SC-ER-1	STANDARD 19" EQUIPMENT RACK, 84"H X 19"W X 15"D, FEATURING PASS-THRU HOLES ON FRONT AND SIDES FOR CABLE MANAGEMENT, DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENT AND PROVIDES (45) 19" X 1.75" MOUNTING SPACES. PROVIDE WITH TOP CENTER WATERFALL, TOP CHANNEL PATHWAY FOR LADDER RACK, AND ANY ADDITIONAL HARDWARE FOR COMPLETE INSTALLATION. REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 46353-503
SC-FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, RACK MOUNT. 48 FIBER MAXIMUM CAPACITY, FRONT LOCKING DOOR, SLIDE OUT RAILS TO FACILITATE FRONT ACCESS. JUMPER TROUGHS IN CONNECTOR PANELS TO REDUCE MOUNTING SPACE. REQUIRES (1) 19" X 1.75" RACK MOUNTING SPACES. PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANEL(S), JUMPERS, AND REAR MOUNTED CLOSET HOUSING PANEL(S). REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CORNING CCH-01U
SC-FDC-2	OPTICAL FIBER DISTRIBUTION CABINET. RACK MOUNT. 96 FIBER MAXIMUM CAPACITY, FRONT LOCKING DOOR, SLIDE OUT RAILS TO FACILITATE FRONT ACCESS. JUMPER TROUGHS IN CONNECTOR PANELS TO REDUCE MOUNTING SPACE. REQUIRES (2) 19" X 1.75" RACK MOUNTING SPACES. PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANEL(S), JUMPERS, AND REAR MOUNTED CLOSET HOUSING PANEL(S). REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CORNING CCH-02U
SC-GND-1	GROUNDING BUSBAR, WALL MOUNT. 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR EIGHTEEN (18) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO GROUND BAR DETAIL ON 1/T300 AND SPECIFICATION SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH 40153-012 PANDUIT ERICO HARGER
SC-GND-2	19" RACK-MOUNT HORIZONTAL GROUND BAR. (3/16" x 3/4" X 19") PROVIES CONNECTION FOR (10) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO SPECIFICATION SECTION 27 11 00 FOR ADDITIONAL INFORMATION.	CHATSWORTH 10610-019 NEWTON PANDUIT ERICO
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 2, 4-PORT COVERPLATE AS INDICATED ON DRAWINGS. PROVIDE WHITE COVERPLATES UNLESS OTHERWISE NOTED ON THE DRAWINGS. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON SHEET T500 FOR PIN CONFIGURATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST CABLE TRAY AND TERMINATE WITH NYLON BUSHINGS. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.	COVERPLATE: HUBBELL IFP SERIES JACK: HUBBELL HXJ6 SERIES PANDUIT BELDEN COMMSCOPE UNIPRISE SIEMON ORTRONICS
SC-LR-1	LADDER RACK, 12" W TUBULAR STEEL CONSTRUCTION, RUST RESISTANT ENAMEL FINISH, REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. U.L. LISTED.	HOMACO INC. TR10-12 CHATSWORTH PRODUCTS B-LINE
SC-MPP-1	MODULAR PATCH PANEL, 24 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (1) 1.75" MOUNTING SPACES.	HUBBELL CAT 6: HP624
SC-MPP-2	MODULAR PATCH PANEL, 48 MODULAR RJ-45 TERMINATIONS, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL CAT 6: HP648
SC-PS-1	POWER STRIP, HORIZONTALLY MOUNTS IN A STANDARD EIA/TIA 19" RACK, (6) REAR RECEPTACLES, 125VAC/60Hz, PROVIDE WITH 10'-0" CORD., INTERNAL CIRCUIT BREAKER, U.L. LISTED. REQUIRES (1) 1.75" MOUNTING SPACE.	GEIST BR060-10
SC-RI-W	TECHNOLOGY ROUGH-IN, FLUSH MOUNT ON WALL OR AS NOTED ON PLANS. ALL TECHNOLOGY ROUGH-INS SHALL HAVE (1) 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING, AND (1) 1" CONDUIT TO NEAREST CABLE TRAY. REFER TO 2/T300 FOR ADDITIONAL ROUGH-IN REQUIREMENTS.	ROUGH-IN ONLY
SC-TTB	TELECOMMUNICATIONS TERMINAL BOARD, 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT +8'-6" A.F.F.	.
SC-VWM-1	DOUBLE-SIDED VERTICAL WIRE MANAGER, 7'H X 6"W X 24.5"D. REMOVABLE FRONT COVER HINGES ON LEFT OR RIGHT. SPOOLS FOR INTEGRAL BEND RADIUS CONTROL.	CHATSWORTH 35521-703 (6") HUBBELL SYSTIMAX PANDUIT
SC-WAP-C	INFORMATION OUTLET, CEILING MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS. REFER TO INFORMATION OUTLET SCHEDULE ON T000 FOR ADDITIONAL INFORMATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO WITHIN 6" OF NEAREST CABLE TRAY AND TERMINATE WITH NYLON BUSHING. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	COVERPLATE: HUBBELL IFP SERIES JACK: HUBBELL HXJ6 SERIES

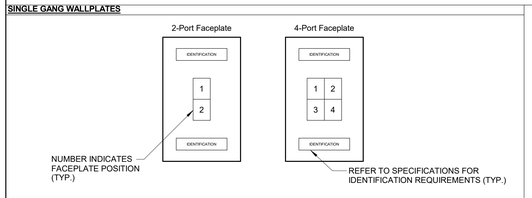
CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

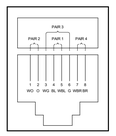
ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T4.00 FOR CREDENTIAL READER TYPE INFORMATION.

	CREDENTIAL READER				INTEGRATION			REQUEST TO EXIT		DOOR HARDWARE					OTHER (REFER TO NOTES)		
DOOR #	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	AUTOMATIC DOOR OPERATOR	ELEVATOR	REMOTE UNLOCK VIA FIRE COMMAND CENTER	INTERNAL ELECTRIFIED HARDWARE CONNECTION	MOTION DETECTOR	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH FOR OVERHEAD DOOR	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	NOTES
100A	N/A						•		•	•					
100B	CR2			•			•		•	•					
102A	CR2						•		•	•					
102B	N/A						•		•	•					
102C	N/A						•		•	•					
108A	CR2			•			•		•	•					
111	N/A						•		•	•					
113	N/A									•					
126	CR1						•		•	•					
137A	CR2			•			•		•	•					
137B	N/A						•		•	•					
140	N/A						•		•	•					
142A	CR2						•		•	•					
143	CR2						•		•	•					
150A	CR2						•		•	•					
150B	CR2						•		•	•					
154	CR2						•		•	•					
161	CR1						•		•	•					
161A	CR1						•		•	•					
162A	N/A									•					
162B	N/A									•					
163	CR1						•		•	•					
165	CR2			•			•		•	•					
166	CR2						•		•	•					
167	CR1						•		•	•					
201B	CR2						•		•	•					
203	CR2						•		•	•					
210A	CR2	•					•		•	•					
210B	CR1						•		•	•					
211	CR2	•					•		•	•					
212	CR1						•		•	•					
216	CR2						•		•	•					
E1 (ELEVATOR)	CR2	•			•										

INFORMATION OUTLET SCHEDULE

SINGLE GANG WALLPLATES





ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT

NOTES:
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICAITONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY.

LEGEND

CAT 6	CAT 6 RJ-45
CAT 6A	CAT 6A RJ-45
HDMI	HDMI COUPLER
BLANK	BLANK FILLER MODULE
TV	F-CONNECTOR

		FACEPLATE PORT IDENTIFICATION						
CONFIGURATION	FACEPLATE PORTS	POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	NOTES
C1	2	CAT 6	BLANK					
C1-1	2	CAT 6	BLANK					
C2	2	CAT 6	CAT 6					
C2-1-WAP	2	CAT 6A	CAT 6A					1.
C2-AV	4	CAT 6	CAT 6	HDMI	BLANK			PROVIDE HDMI CABLE TO AV-WP1-W
C2-TV	4	CAT 6	TV	BLANK	BLANK			
C2-WAP	2	CAT 6A	CAT 6A					1.
WP1	4	CAT 6	CAT 6	HDMI	HDMI			

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Commercial Kitchen Design
Boelter Premier
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MADISON PUBLIC MARKET
202 N First St, Madison, WI 53704

Project No: 20190005.00

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Wisconsin.

Seal

Print Name _____

Date _____ **License No** _____

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TECHNOLOGY SCHEDULES

T500

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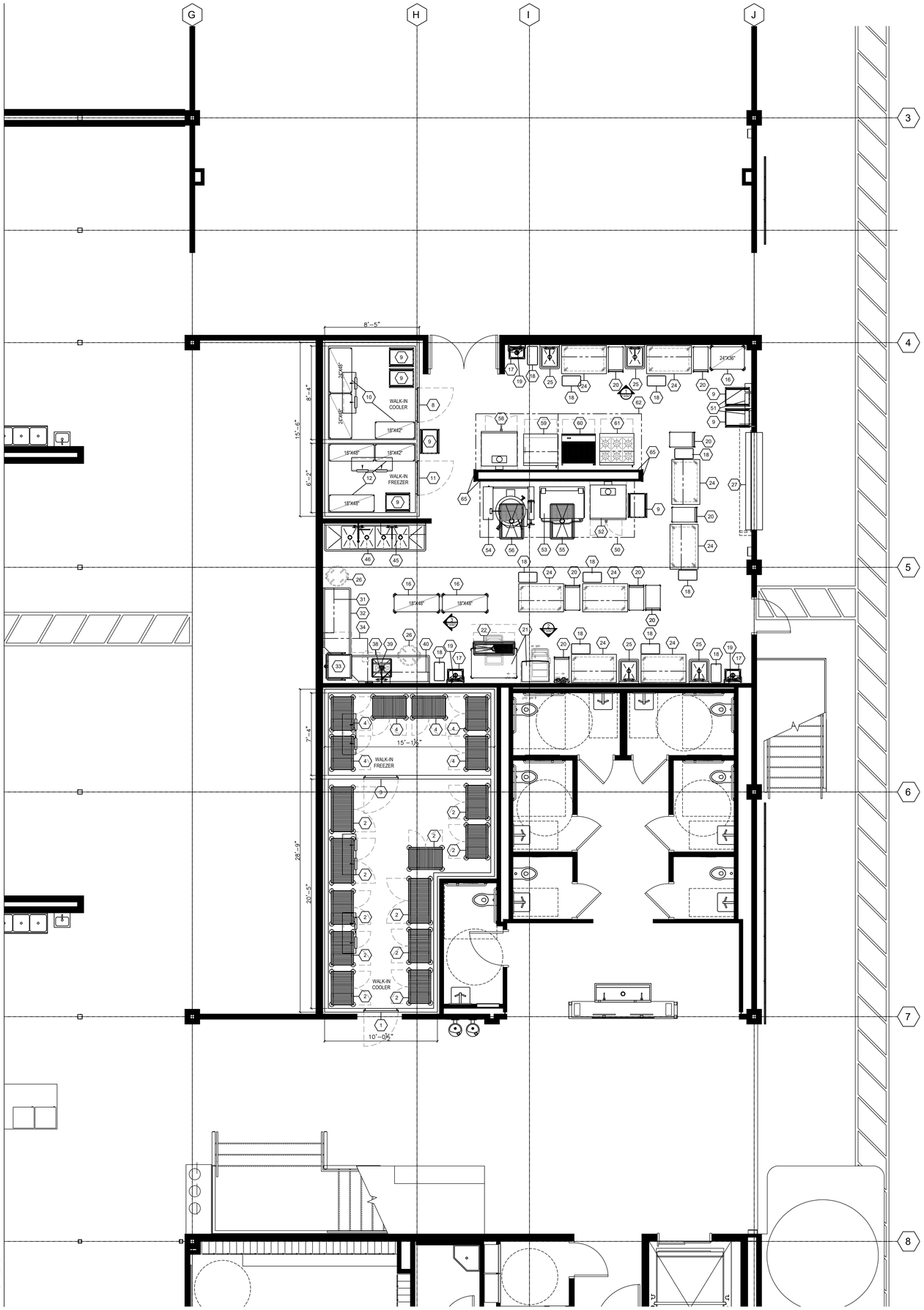

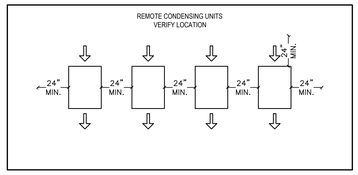

Equipment List

Item	Description	Specified	Furnished	Installed
1	WALK-IN COOLER	A/E	GC	GC
2	SECURED STORAGE SHELVING	A/E	CITY	GC
3	WALK-IN FREEZER	A/E	GC	GC
4	SECURED STORAGE SHELVING	A/E	CITY	GC
5	SPARE NUMBER			
6	SPARE NUMBER			
7	SPARE NUMBER			
8	WALK-IN COOLER	A/E	GC	GC
9	PAN RACKS	A/E	CITY	GC
10	COOLER SHELVING	A/E	CITY	GC
11	WALK-IN FREEZER	A/E	GC	GC
12	FREEZER SHELVING	A/E	CITY	GC
13	SPARE NUMBER			
14	SPARE NUMBER			
15	SPARE NUMBER			
16	STORAGE SHELVING	A/E	CITY	GC
17	HAND SINKS	A/E	CITY	GC
18	WASTE CONTAINERS	CITY	CITY	CITY
19	SOAP AND TOWEL DISPENSERS	CITY	CITY	CITY
20	MOBILE CARTS	A/E	CITY	GC
21	ICE MAKER W/ BIN & WATER FILTER	A/E	CITY	GC
*22	FLOOR TROUGH	A/E	GC	GC
23	SPARE NUMBER			
24	MOBILE WORK TABLES W/ SHELF	A/E	CITY	GC
25	PREP SINKS	A/E	CITY	GC
26	WASTE CONTAINERS	CITY	CITY	CITY
27	PASS-THRU SHELF	A/E	CITY	GC
28	SPARE NUMBER			
29	SPARE NUMBER			
30	SPARE NUMBER			
31	WALL SHELF	A/E	CITY	GC
32	CLEAN DISHTABLE	A/E	CITY	GC
33	DISHMACHINE W/ BOOSTER HEATER	A/E	CITY	GC
34	CONDENSATE HOOD	A/E	GC	GC
35	SPARE NUMBER			
36	SPARE NUMBER			
37	SPARE NUMBER			
38	SOILED DISHTABLE/SCRAP SINK/PRE-RINSE SPRAY	A/E	CITY	GC
39	DISPOSER	A/E	CITY	GC
40	WALL SHELF	A/E	CITY	GC
41	SPARE NUMBER			
42	SPARE NUMBER			
43	SPARE NUMBER			
44	SPARE NUMBER			
45	WALL SHELF	A/E	CITY	GC
46	4-COMPARTMENT SINK	A/E	CITY	GC
47	SPARE NUMBER			
48	SPARE NUMBER			
49	SPARE NUMBER			
50	KITCHEN HOOD	A/E	GC	GC
51	FIRE SUPPRESSION SYSTEM	A/E	GC	GC
52	DOUBLE DECK CONVECTION OVEN	A/E	CITY	GC
53	40 GAL. TILTING BRAISING PAN	A/E	CITY	GC
54	40 GAL. TILTING KETTLE	A/E	CITY	GC
*55	FLOOR TROUGH	A/E	GC	GC
*56	FLOOR TROUGH	A/E	GC	GC
57	SPARE NUMBER			
58	DOUBLE DECK CONVECTION OVEN	A/E	CITY	GC
59	GRIDDLE W/ STANDARD OVEN	A/E	CITY	GC
60	CHARBROILER W/ STANDARD OVEN	A/E	CITY	GC
61	6-BURNER RANGE W/ STANDARD OVEN	A/E	CITY	GC
62	KITCHEN HOOD	A/E	GC	GC
63	SPARE NUMBER			
64	SPARE NUMBER			
65	S/S WALL PANELING & END CAPS	A/E	CITY	GC

* FINAL SIZING OF FLOOR TROUGHS TO BE CONFIRMED ONCE FS EQUIPMENT HAS BEEN SELECTED. COORDINATE WITH GC & OWNER.

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Project No: 2018006.00

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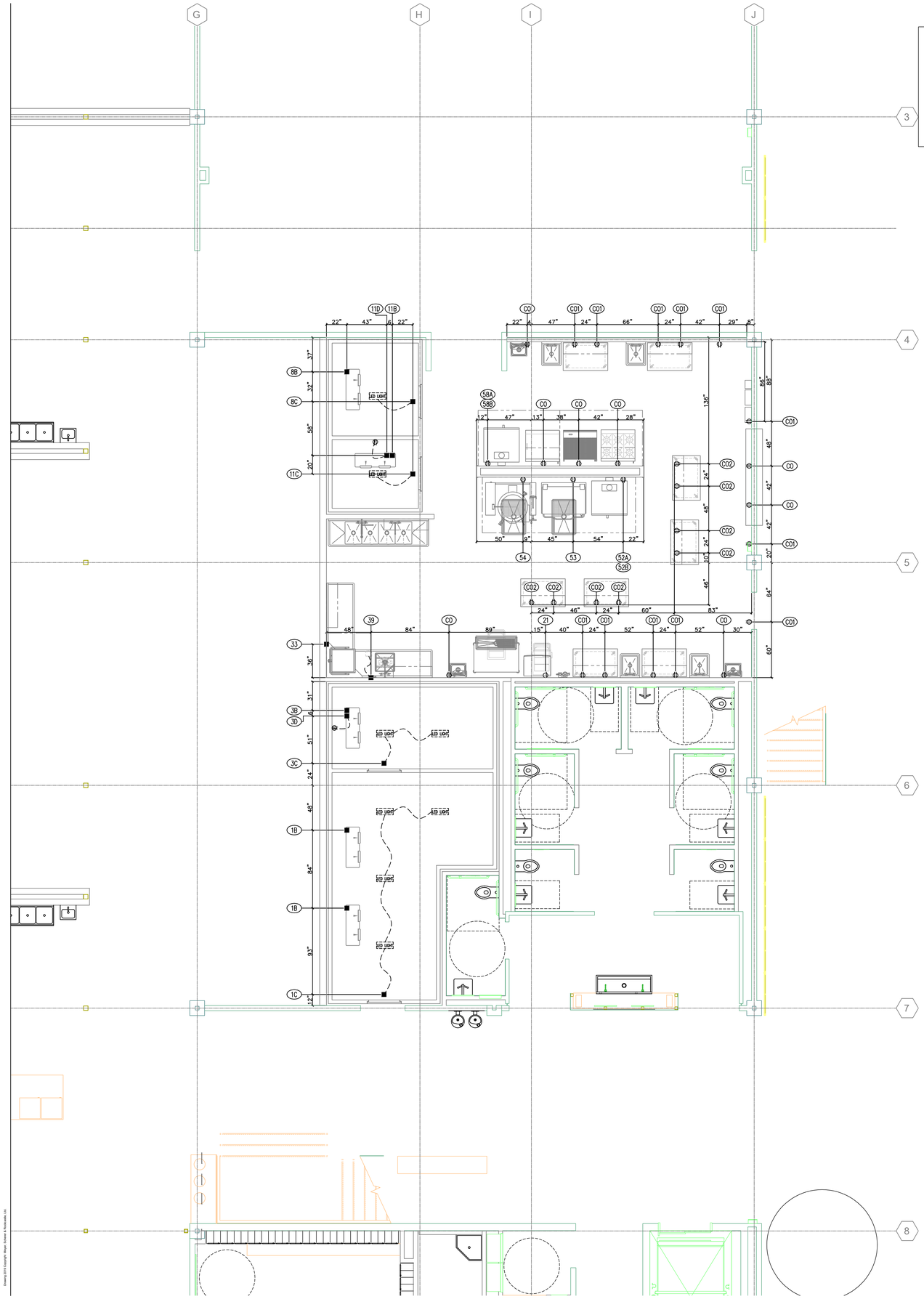
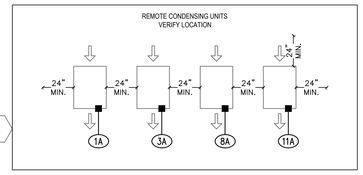
FOODSERVICE EQUIPMENT PLAN

FS101





Electrical Rough-Ins

Item	Qty.	Connection(s)
1A	1	208-230V./1 J-BOX FOR WALK-IN COOLER COMPRESSOR. 1.5 HP. 10.9 AMPS. VERIFY FINAL LOCATION OF COMPRESSOR ON ARCHITECTURAL PLANS. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE EVAPORATOR BLOWER COIL. EC TO FURNISH AND INSTALL DISCONNECT PER LOCAL CODES. * ALSO REFER TO REMOTE COMPRESSOR NOTES THIS PAGE.
1B	2	115V./1 J-BOX FROM ABOVE FOR WALK-IN COOLER COIL. 1.6 AMPS.
1C	1	120V./1 J-BOX FROM ABOVE FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. 20.0 AMP CIRCUIT. EC TO INSTALL AND CONNECT TO ALL LIGHT FIXTURES.
3A	1	208-230V./1 J-BOX FOR WALK-IN FREEZER COMPRESSOR. 2.0 HP. 18.1 AMPS. VERIFY FINAL LOCATION OF COMPRESSOR ON ARCHITECTURAL PLANS. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE EVAPORATOR BLOWER COIL. EC TO FURNISH AND INSTALL DISCONNECT PER LOCAL CODES. * ALSO REFER TO REMOTE COMPRESSOR NOTES THIS PAGE.
3B	1	208-230V./1 J-BOX FROM ABOVE FOR WALK-IN FREEZER COIL. 1.0 AMP (FAN). 9.8 AMPS (DEFROST HEATER).
3C	1	120V./1 J-BOX FROM ABOVE FOR WALK-IN FREEZER LIGHTS, DOOR HEATER AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO INSTALL AND CONNECT TO ALL LIGHT FIXTURES.
3D	1	120V./1 J-BOX FROM ABOVE FOR DRAIN LINE HEAT TAPE DGR. 20.0 AMP CIRCUIT. EC TO CONNECT TO DGR LOCATED INSIDE WALK-IN FREEZER BOX MOUNTED TO WALL BEHIND COIL.
8A	1	208-230V./1 J-BOX FOR WALK-IN COOLER COMPRESSOR. 3/4 HP. 7.4 AMPS. VERIFY FINAL LOCATION OF COMPRESSOR ON ARCHITECTURAL PLANS. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE EVAPORATOR BLOWER COIL. EC TO FURNISH AND INSTALL DISCONNECT PER LOCAL CODES. * ALSO REFER TO REMOTE COMPRESSOR NOTES THIS PAGE.
8B	1	115V./1 J-BOX FROM ABOVE FOR WALK-IN COOLER COIL. 1.6 AMPS.
8C	1	120V./1 J-BOX FROM ABOVE FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. 20.0 AMP CIRCUIT. EC TO INSTALL AND CONNECT TO ALL LIGHT FIXTURES.
11A	1	208-230V./1 J-BOX FOR WALK-IN FREEZER COMPRESSOR. 1.5 HP. 12.6 AMPS. VERIFY FINAL LOCATION OF COMPRESSOR ON ARCHITECTURAL PLANS. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE EVAPORATOR BLOWER COIL. EC TO FURNISH AND INSTALL DISCONNECT PER LOCAL CODES. * ALSO REFER TO REMOTE COMPRESSOR NOTES THIS PAGE.
11B	1	208-230V./1 J-BOX FROM ABOVE FOR WALK-IN FREEZER COIL. 1.0 AMP (FAN). 9.8 AMPS (DEFROST HEATER).
11C	1	120V./1 J-BOX FROM ABOVE FOR WALK-IN FREEZER LIGHTS, DOOR HEATER AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO INSTALL AND CONNECT TO ALL LIGHT FIXTURES.
11D	1	120V./1 J-BOX FROM ABOVE FOR DRAIN LINE HEAT TAPE DGR. 20.0 AMP CIRCUIT. EC TO CONNECT TO DGR LOCATED INSIDE WALK-IN FREEZER BOX MOUNTED TO WALL BEHIND COIL.
21	1	208-230V./1 SGR 60" AFF FOR ICE MAKER. 11.0 AMPS. 15.0 AMP CIRCUIT. NEMA 6-15P.
33	1	208-240V./3 J-BOX 18" AFF. FOR DISHMACHINE W/ BOOSTER HEATER. 52.5 AMPS. 60.0 AMP CIRCUIT. EC. TO FURNISH AND INSTALL DISCONNECT PER CODE REQUIREMENTS. EC. TO INTERWIRE FROM VENT FAN CONTROL CONNECTION AND DISHMACHINE TO EXHAUST FAN ON HOOD. FAN(S), DUCTWORK, ETC. PROVIDED BY OTHERS – EC. TO VERIFY EXACT REQUIREMENTS.
39	1	208V./1 J-BOX 18" AFF FOR DISPOSER. 2.0 HP. 7.7 AMPS. EC TO FURNISH AND INSTALL DISCONNECT PER LOCAL CODE(S). EC TO CONNECT DISPOSER, SOLENOID VALVE AND SWITCH.
52A	1	115V./1 DGR 18" AFF FOR CONVECTION OVEN. 1/2 HP. 6.0 AMPS. NEMA 5-15P.
52B	1	115V./1 DGR 48" AFF FOR CONVECTION OVEN. 1/2 HP. 6.0 AMPS. NEMA 5-15P.
53	1	120V./1 DGR 18" AFF FOR 40 GAL. TILTING BRAISING PAN. 2.0 AMPS.
54	1	120V./1 DGR 18" AFF FOR 40 GAL. TILTING KETTLE. 4.0 AMPS.
58A	1	115V./1 DGR 18" AFF FOR CONVECTION OVEN. 1/2 HP. 6.0 AMPS. NEMA 5-15P.
58B	1	115V./1 DGR 48" AFF FOR CONVECTION OVEN. 1/2 HP. 6.0 AMPS. NEMA 5-15P.
C0	8	120V./1 GFCI DGR 18" AFF FOR CONVENIENCE OUTLET. 20.0 AMP CIRCUIT EACH.
C01	12	120V./1 GFCI DGR 48" AFF FOR CONVENIENCE OUTLET. 20.0 AMP CIRCUIT EACH.
C02	8	120V./1 GFCI DGR FROM ABOVE DOWN TO 60" AFF FOR CONVENIENCE OUTLET. 20.0 AMP CIRCUIT EACH.

REMOTE COMPRESSOR NOTES:

- VERIFY FINAL LOCATION OF COMPRESSORS ON ARCHITECTURAL PLANS.
- EC. TO FURNISH J-BOX AND DISCONNECT FOR COOLER/FREEZER COMPRESSORS.
- ALL ELECTRICAL INTER-WIRING BY EC. THIS WORK INCLUDES; HARDWIRING EACH COMPRESSOR TO ITS RESPECTIVE BLOWER COIL(S). INTER-WIRING OF LIGHTS, AND DOOR HEATER. INTER-WIRING OF THERMOSTAT AND SOLENOID, INTER-WIRING OF BLOWER COIL AND TIME CLOCK, PROVIDING RECEPTACLE FOR DRAIN LINE HEATER.
- ALSO REFER TO ELECTRICAL NOTE #5.
- PROPER VENTILATION AND COOLING MUST BE PROVIDED FOR REMOTE COMPRESSORS TO RUN AT FULL CAPACITY AND MAINTAIN VALID WARRANTIES.
- LIGHT BULBS PROVIDED BY OWNER.

COMPRESSOR SIZES/ LOADS:
- WALK-IN COOLER ((ITEM 1) – 208-230V./1 1.5 HP. 10.9 AMPS.
- WALK-IN FREEZER (ITEM 3) – 208-230V./1 2.0 HP. 18.1 AMPS.
- WALK-IN COOLER (ITEM 8) – 208-230V./1 3/4 HP. 7.4 AMPS.
- WALK-IN FREEZER (ITEM 11) – 208-230V./1 1.5 HP. 12.6 AMPS.

ELECTRICAL NOTES:

EC. TO COMPLY WITH ALL LOCAL AND STATE ELECTRICAL CODES.
EC. TO READ AND REVIEW 11400 SPECIFICATIONS.

ELECTRICAL SYMBOLS

	SGR.	SINGLE GROUNDED RECEPTACLE
	DGR.	DUPLEX GROUNDED RECEPTACLE
	DDGR.	DEDICATED DUPLEX GROUNDED RECEPTACLE
	CO.	CONVENIENCE OUTLET
	SPO.	SPECIAL PURPOSE OUTLET
	DIR.	DIRECT WIRED CONNECTION
	ECS.	ELECTRICAL CONDUIT STUB UP
	JB.	JUNCTION BOX
S	SW.	SWITCH
	TEL.	TELEPHONE
	GFCI.	GROUND FAULT CIRCUIT INTERRUPT
	KW.	KILOWATTS
	V.	VOLT
	HP.	HORSEPOWER
	AFF.	ABOVE FINISHED FLOOR
	WFA.	WIRED FROM ABOVE

ELECTRICAL CONTRACTORS NOTES

E1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOOD SERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTS PLANS, CONSULTANT, OR OWNER.

E2. ELECTRICAL CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

E3. THE FOODSERVICE CONTRACTOR WILL NOT BE RESPONSIBLE FOR FURNISHING ELECTRICAL APPURTENANCES SUCH AS LINE OR DISCONNECT SWITCHES, SAFETY OUTLETS, CONTROL PANELS, FUSE BOXES, FITTINGS AND INTERWIRING REQUIRED BETWEEN EQUIPMENT AND CONTROL PANELS UNLESS SPECIFIED IN FOODSERVICE EQUIPMENT CONTRACT.

E4. UNLESS OTHERWISE SPECIFIED, THE ELECTRICIAN IS TO FURNISH ALL 208 VOLT CONTROL PLUGS AND RECEPTACLES WHERE NECESSARY. E.C. TO FURNISH ALL LIGHT BULBS REQUIRED FOR EXHAUST HOOD(S) AND/OR WALK-IN COOLERS AND FREEZERS UNLESS OTHERWISE SPECIFIED.

E5. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOODSERVICE EQUIPMENT INCLUDING ALL INTERWIRING REQUIRED FOR WALK-IN COOLERS AND FREEZERS AND THEIR COMPRESSORS, BLOWER FANS, TIMERS, HEATERS AND LIGHTING.

E6. ELECTRICIAN IS TO DO ALL INTERWIRING FOR EXHAUST HOOD LIGHTING, BLOWERS, DAMPERS, AND FIRE SUPPRESSION SYSTEM, INCLUDING THE SUPPLY AND INSTALLATION OF A SHUNT/TRIP BREAKER FOR EQUIPMENT AND FAN INTERLOCK MECHANISM.

E7. ALL ELECTRICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

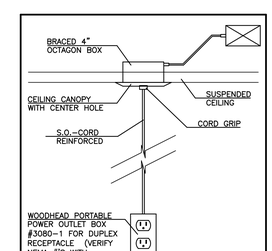
E8. ALL ELECTRICAL CONDUIT IS TO BE RUN WITHIN WALL SURFACES AND BOXES AND RECEPTACLES ARE TO BE INSET FLUSH WITH WALL SURFACE. SURFACE MOUNTED ELECTRICAL WORK IS NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLAN.

E9. EQUIPMENT MANUFACTURERS SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

E10. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

E11. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY LOCAL CODE.

E12. ELECTRICAL CONTRACTOR TO SEAL INSIDE OF CONDUIT W/ SILICONE OR EXPANDABLE FOAM WHERE CONDUIT PENETRATES WALK-IN COOLER/FREEZER WALLS. TYPICAL.



CEILING MOUNTED OUTLET DETAIL

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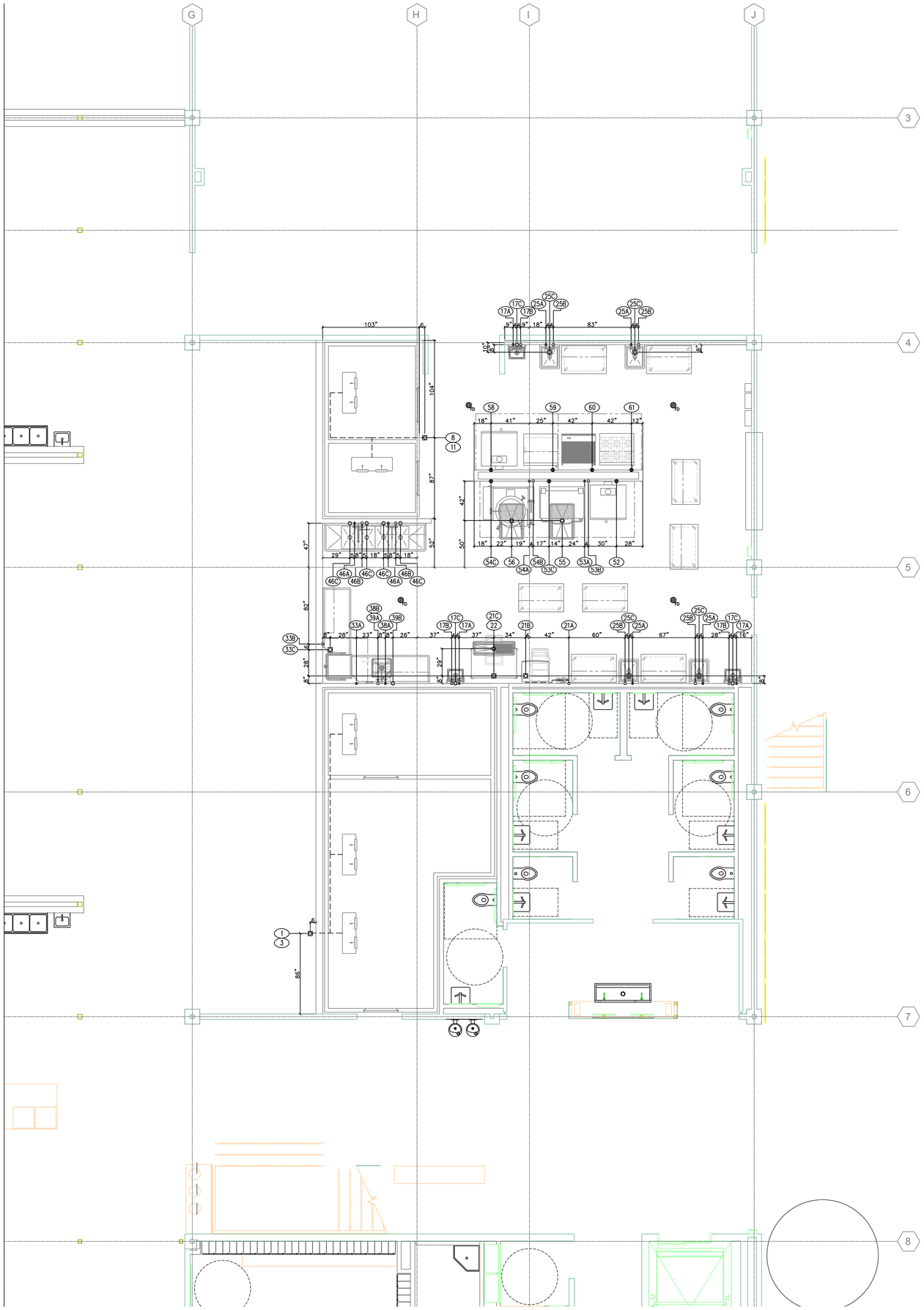
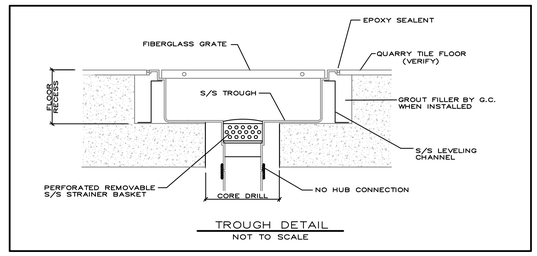
ELECTRICAL ROUGH-INS

FS201



Plumbing/Gas Rough-Ins

Item	Qty.	Connection(s)
1	2	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM COOLER EVAPORATOR COILS TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
3	1	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM FREEZER EVAPORATOR COIL TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
8	1	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM COOLER EVAPORATOR COIL TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
11	1	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM FREEZER EVAPORATOR COIL TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
17	3	CONNECTIONS FOR HAND SINK: A – 1/2" HW 22" AFF. B – 1/2" CW 22" AFF. C – 1-1/2" DW 20" AFF.
21	1	CONNECTIONS FOR ICE MAKER W/ BIN & WATER FILTER: A – 3/4" CW 54" AFF. PC TO BRANCH THROUGH WATER FILTER PROVIDED BY FSEC TO 3/8" CW CONNECTION ON UNIT. B – 1" DRAIN TO HUB DRAIN STUB-UP 3" AFF FOR ICE MAKER. C – 1" DRAIN TO HUB DRAIN STUB-UP 3" AFF FOR BIN.
22	1	4" RECESSED NO-HUB TYPE CONNECTION. DRAIN TO GREASE TRAP PER CODE REQUIREMENTS. SEE DETAIL THIS PAGE. FSEC TO FURNISH FLOOR TROUGH TO PC FOR INSTALLATION.
25	4	CONNECTIONS FOR PREP SINK: A – 1/2" HW 14" AFF. B – 1/2" CW 14" AFF. C – 1-1/2" DRAIN TO HUB DRAIN STUB-UP 3" AFF.
33	1	CONNECTIONS FOR DISHMACHINE W/ BOOSTER HEATER: A – 3/4" 110°F MIN. HW 12" AFF. PC TO PROVIDE 1/2" STUB OUT ON HW FEED WITH THREADED BALL VALVE FOR CHEMICAL DISPENSING EQUIPMENT PROVIDED BY OTHERS. BACKFLOW PREVENTION TO BE DETERMINED. VERIFY WITH OWNER. B – 3/4" 50°F MIN. CW 12" AFF FOR DRAIN WATER TEMPERING KIT. C – 5/8" DRAIN TO HUB DRAIN STUB-UP 3" AFF. EXTEND 24" DOWN BEFORE TRAPPING. DRAIN TO GREASE TRAP PER CODE REQUIREMENTS. DO NOT USE PVC. MACHINE RATING DATA: 60 RACKS PER HOUR, WASH TANK CAPACITY – 10.5 GALLONS. REFER TO SPEC BOOK FOR ADDITIONAL WATER USAGE DATA.
38	1	CONNECTIONS FOR PRE-RINSE SPRAY: A – 1/2" HW 14" AFF. B – 3/4" CW 14" AFF. PC TO BRANCH TO CW CONNECTION FOR DISPOSER ITEM #39A.
39	1	CONNECTIONS FOR DISPOSER: A – 1/2" CW. PC TO BRANCH FROM PRE-RINSE SPRAY ITEM #38B. B – 2" DW 8" AFF. PC TO CONNECT DISPOSER, SOLENOID VALVE, FLOW CONTROL VALVE AND VACUUM BREAKER.
46	1	CONNECTIONS FOR 4-COMPARTMENT SINK: A – (2) 1/2" HW 14" AFF. PC TO PROVIDE 1/2" STUB OUT ON HW FEED WITH THREADED BALL VALVE FOR CHEMICAL DISPENSING EQUIPMENT PROVIDED BY OTHERS. BACKFLOW PREVENTION TO BE DETERMINED. VERIFY WITH OWNER. B – (2) 1/2" CW 14" AFF. C – (4) 1-1/2" DW 12" AFF. DRAIN TO GREASE TRAP PER CODE REQUIREMENTS. BOWL SIZE: (4) 18"X24"X14" DEEP.
52	1	3/4" MANIFOLDED GAS SUPPLY 24" AFF FOR DOUBLE DECK CONVECTION OVEN. 100,000 TOTAL BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
53	1	CONNECTIONS FOR 40 GAL. TILTING BRAISING PAN: A – 3/8" HW 36" AFF. B – 3/8" CW 36" AFF. C – 3/4" GAS SUPPLY 24" AFF. 125,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
54	1	CONNECTIONS FOR 40 GAL. TILTING KETTLE: A – 3/8" HW 36" AFF. B – 3/8" CW 36" AFF. C – 3/4" GAS SUPPLY 24" AFF. 100,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
55	1	4" RECESSED NO-HUB TYPE CONNECTION. DRAIN TO GREASE TRAP PER CODE REQUIREMENTS. SEE DETAIL THIS PAGE. FSEC TO FURNISH FLOOR TROUGH TO PC FOR INSTALLATION.
56	1	4" RECESSED NO-HUB TYPE CONNECTION. DRAIN TO GREASE TRAP PER CODE REQUIREMENTS. SEE DETAIL THIS PAGE. FSEC TO FURNISH FLOOR TROUGH TO PC FOR INSTALLATION.
58	1	3/4" MANIFOLDED GAS SUPPLY 24" AFF FOR DOUBLE DECK CONVECTION OVEN. 100,000 TOTAL BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
59	1	3/4" GAS SUPPLY 24" AFF FOR GRIDDLE W/ STANDARD OVEN. 109,000 TOTAL BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
60	1	3/4" GAS SUPPLY 24" AFF FOR CHARBROILER W/ STANDARD OVEN. 141,000 TOTAL BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.
61	1	3/4" GAS SUPPLY 24" AFF FOR 6-BURNER RANGE W/ STANDARD OVEN. 243,000 TOTAL BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT AND RESTRAINING CABLE TO PC FOR INSTALLATION.



TROUGH DETAIL
NOT TO SCALE

PLUMBING NOTES:

PC. TO COMPLY WITH ALL LOCAL AND STATE PLUMBING CODES.
PC. TO READ AND REVIEW 11400 SPECIFICATIONS.

FLOOR DRAIN NOTE:

EXACT LOCATION OF ALL FLOOR DRAINS TO BE LOCATED BY PC.

BACKFLOW PREVENTOR NOTE:

PC. TO FURNISH AND INSTALL ANY AND ALL CODE COMPLYING BACKFLOW PREVENTORS PER LOCAL CODES.

PLUMBING SYMBOLS

●	HW.	HOT WATER LINE STUB
○	CW.	COLD WATER LINE STUB
○	DW.	DIRECT WASTE CONNECTION
FD.	FD.	FLUSH FLOOR DRAIN AND GRATE
IND.	IND.	INDIRECT WASTE DRAIN
FS.	FS.	12" SQUARE FLOOR SINK
◆	GAS	GAS SUPPLY LINE STUB
✱	SS.	STEAM SUPPLY
✱	CR.	CONDENSATE RETURN
	AFF.	ABOVE FINISHED FLOOR
	DFA.	DOWN FROM ABOVE

PLUMBER/FITTERS NOTES

P1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOOD SERVICE EQUIPMENT TO BE FURNISHED BY FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECT'S PLANS, CONSULTANT, OR OWNER.

P2. PLUMBER/FITTER CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

P3. FOOD SERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR PROVIDING APPURTENANCES SUCH AS TEES, ELBOWS, MIXING VALVES, R.P. VALVES, GREASE TRAPS OR INTERCEPTORS, BACKFLOW DEVICES, COUPLINGS AND FITTINGS OTHER THAN THOSE FURNISHED AS STANDARD WITH EQUIPMENT TO BE FURNISHED BY THE BOELTER COMPANIES INC., EXCEPT WHERE SPECIFIED TO DO SO UNDER THE ARCHITECTS OR CONSULTANTS GENERAL KITCHEN EQUIPMENT SPECIFICATIONS.

P4. UNLESS OTHERWISE SPECIFIED, THE PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY P.V.C. PIPING (6" MIN.) THROUGH AND BELOW FLOOR TO ACT AS A CHASE FOR BEVERAGE AND/OR REFRIGERATION LINE RUNS. BENDS IN P.V.C. CHASE ARE NOT TO EXCEED 45 DEGREES AT ANY SINGLE POINT.

P5. PLUMBER/FITTER TO MAKE ALL FINAL PLUMBING AND GAS CONNECTIONS TO EQUIPMENT, INCLUDING MOUNTING FAUCETS AND DRAINS. EXTEND WASTE LINES FROM ALL APPLICABLE EQUIPMENT TO NEAREST INDIRECT DRAIN AS SHOWN ON PLAN.

P6. ALL MECHANICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

P7. ALL PLUMBING, GAS AND STEAM LINES TO BE RUN WITHIN WALL CAVITIES SO AS TO HAVE ONLY SUPPLY AND RETURN STUBS PROTRUDING THROUGH WALL SURFACE. WALL PENETRATIONS ARE TO BE SEALED AND TRIM RINGS APPLIED. SURFACE MOUNTED PLUMBING, GAS AND STEAM LINES ARE NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSRVICE EQUIPMENT ROUGH-IN PLANS.

P8. EQUIPMENT MANUFACTURER'S SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

P9. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

P10. P.C. TO FURNISH AND INSTALL GAS PRESSURE REDUCING VALVE TO PROVIDE MAXIMUM OPERATING PRESSURE OF 14" W.C. TO FOODSERVICE EQUIPMENT. GAS SHUT OFF VALVE MUST BE INSTALLED TO BE ACCESSIBLE FOR INSPECTIONS.

P11. P.C. TO FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE(S) WHERE REQUIRED FOR FOOD SERVICE EQUIPMENT.

P12. P.C. TO FURNISH AND INSTALL HOT WATER RECIRCULATION SYSTEM THAT SHALL PROVIDE HOT WATER SUPPLY WITHIN 20 SECONDS AT EACH SINK AND DISHMACHINE.

ITEM NO.	QTY	UNIT	CATEGORY	FIXTURE DESCRIPTION
17	3	EA.	HAND SINK	(1) FAUCET PER SINK
25	3	EA.	ONE (1) COMPARTMENT SINK	(1) FAUCET & LEVER DRAIN PER SINK
38	1	EA.	SOILED DISHTABLE	PRE-RINSE SPRAYER W/ DISPOSER
46	1	EA.	FOUR (4) COMPARTMENT SINK	(2) FAUCETS & (4) LEVER DRAINS

FIXTURE TYPES AND QUANTITIES NOTED IN SCHEDULE ARE FOR REFERENCE ONLY. GC IS RESPONSIBLE FOR CONFIRMING FIXTURE COUNTS WITH DRAWINGS.

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Project No: 2019000.00

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1	2023.06.09	BID DOCUMENTS

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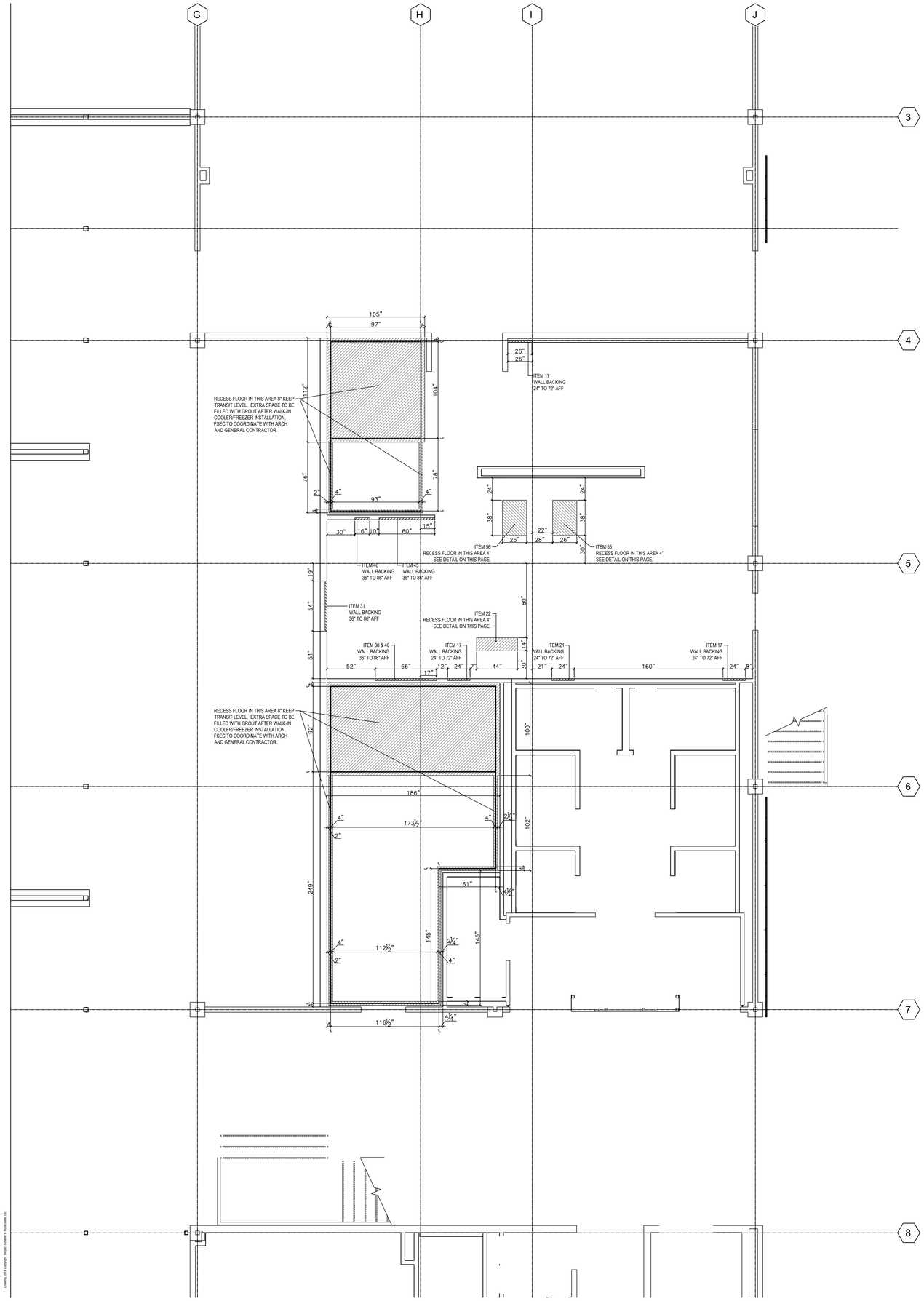
PLUMBING/GAS ROUGH-INS

FS301



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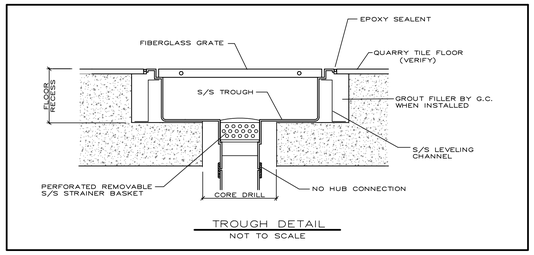
Equipment List

Item	Description
1	WALK-IN COOLER
2	SECURED STORAGE SHELVING
3	WALK-IN FREEZER
4	SECURED STORAGE SHELVING
5	SPARE NUMBER
6	SPARE NUMBER
7	SPARE NUMBER
8	WALK-IN COOLER
9	PAN RACKS
10	COOLER SHELVING
11	WALK-IN FREEZER
12	FREEZER SHELVING
13	SPARE NUMBER
14	SPARE NUMBER
15	SPARE NUMBER
16	STORAGE SHELVING
17	HAND SINKS
18	WASTE CONTAINERS
19	SOAP AND TOWEL DISPENSERS
20	MOBILE CARTS
21	ICE MAKER W/ BIN & WATER FILTER
*22	FLOOR TROUGH
23	SPARE NUMBER
24	MOBILE WORK TABLES W/ SHELF
25	PREP SINKS
26	WASTE CONTAINERS
27	PASS-THRU SHELF
28	SPARE NUMBER
29	SPARE NUMBER
30	SPARE NUMBER
31	WALL SHELF
32	CLEAN DISHTABLE
33	DISHMACHINE W/ BOOSTER HEATER
34	CONDENSATE HOOD
35	SPARE NUMBER
36	SPARE NUMBER
37	SPARE NUMBER
38	SOILED DISHTABLE/SCRAP SINK/PRE-RINSE SPRAY
39	DISPOSER
40	WALL SHELF
41	SPARE NUMBER
42	SPARE NUMBER
43	SPARE NUMBER
44	SPARE NUMBER
45	WALL SHELF
46	4-COMPARTMENT SINK
47	SPARE NUMBER
48	SPARE NUMBER
49	SPARE NUMBER
50	KITCHEN HOOD
51	FIRE SUPPRESSION SYSTEM
52	DOUBLE DECK CONVECTION OVEN
53	40 GAL TILTING BRAISING PAN
54	40 GAL TILTING KETTLE
*55	FLOOR TROUGH
*56	FLOOR TROUGH
57	SPARE NUMBER
58	DOUBLE DECK CONVECTION OVEN
59	GRIDDLE W/ STANDARD OVEN
60	CHARBROILER W/ STANDARD OVEN
61	6-BURNER RANGE W/ STANDARD OVEN
62	KITCHEN HOOD
63	SPARE NUMBER
64	SPARE NUMBER
65	S/S WALL PANELING & END CAPS

* FINAL SIZING OF FLOOR TROUGHS TO BE CONFIRMED ONCE FS EQUIPMENT HAS BEEN SELECTED. COORDINATE WITH GC & OWNER.

WALL BACKING INFORMATION

WALL BACKING MATERIAL IN WALLS WITH EXHAUST HOODS TO BE GALVANIZED STEEL. ALL OTHER WALL BACKING TO BE 3/4" PLYWOOD. ALL WALL BACKING TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. WALL BACKING TO BE INSTALLED IN STUD WALLS ONLY. WALL BACKING TO BE INSTALLED BEHIND FACE OF METAL STUDS.



TROUGH DETAIL
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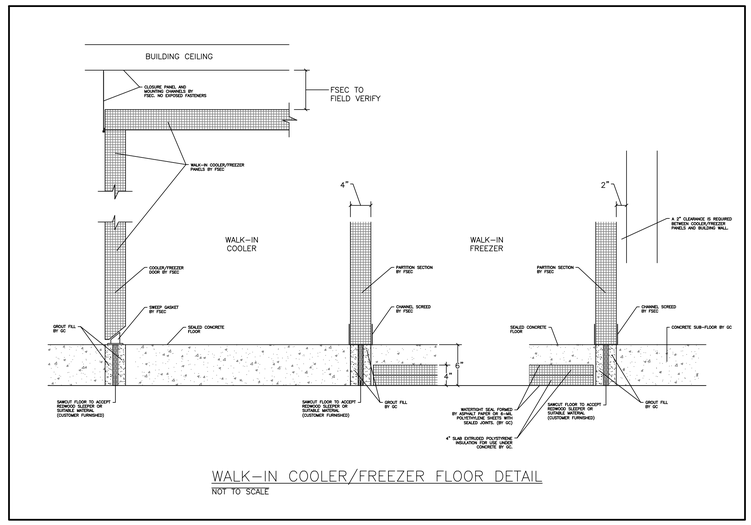

WALK-IN COOLER/FREEZER FLOOR DETAIL
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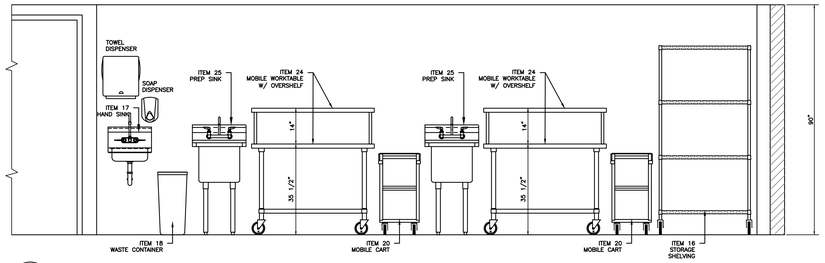
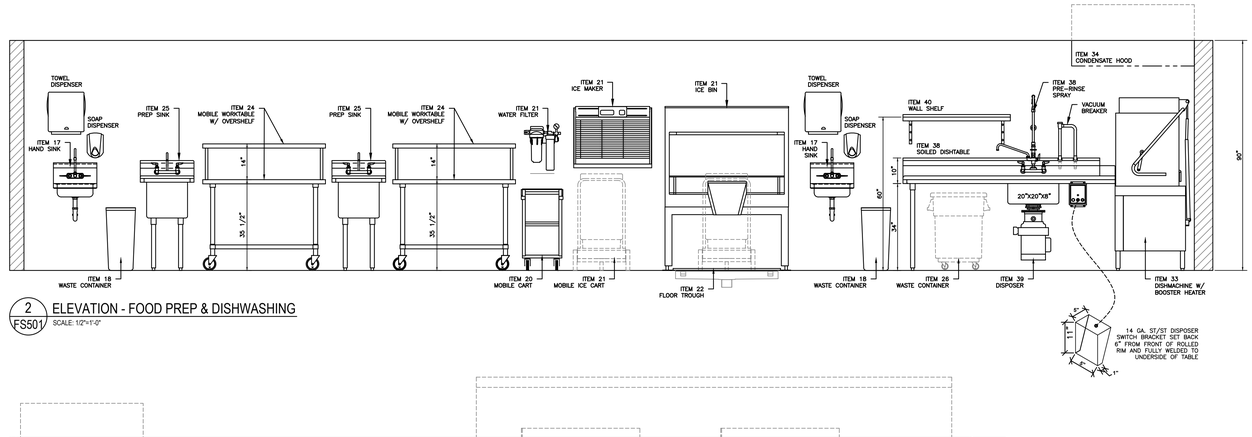
SPECIAL CONDITIONS PLAN

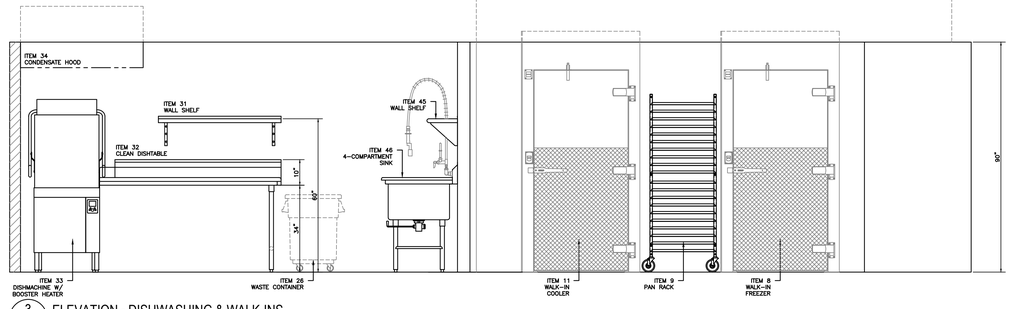
FS401



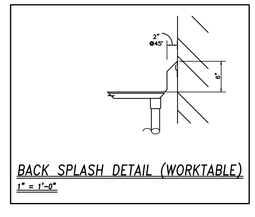
1 FS501 ELEVATION - FOOD PREP & DISHWASHING
SCALE: 1/2"=1'-0"



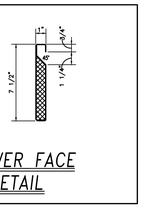
2 FS501 ELEVATION - FOOD PREP & DISHWASHING
SCALE: 1/2"=1'-0"



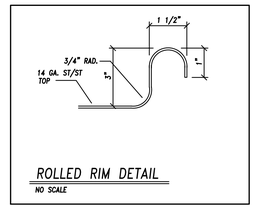
3 FS501 ELEVATION - DISHWASHING & WALK-INS
SCALE: 1/2"=1'-0"



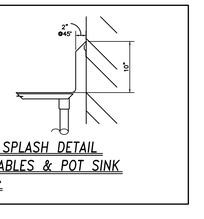
BACK SPLASH DETAIL (WORKTABLE)
1" = 1'-0"



DRAWER FACE DETAIL



ROLLED RIM DETAIL
NO SCALE



BACK SPLASH DETAIL DISHTABLES & POT SINK
1" = 1'-0"

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FOODSERVICE ELEVATIONS

FS501