REF DOC 6
DSPS CONDITIONAL APPROVAL DOCUMENTS

Pinney Neighborhood Library

Madison Public Library – City of Madison

Bid Documents
November 30, 2018

Madison Contract No. 7662

MADISON PUBLIC LIBRARY Foundation
MADISON PUBLIC LIBRARY

REF DOC 6 – DSPS CONDITIONAL APPROVAL DOCUMENTS
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END OF SECTION

DIVISION OF INDUSTRY SERVICES
2331 SAN LUIS PL STE 150
GREEN BAY WI 54304-5211
Contact Through Relay
http://dsps.wi.gov/programs/industry-services
www.wisconsin.gov
Scott Walker, Governor
Laura Gutiérrez, Secretary

September 10, 2018

CUST ID No. 1318340

ATTN: Buildings & Structures Building Inspector

WESLEY REYNOLDS
OPN ARCHITECTS
301 N BROOM ST STE 100
MADISON WI 53703

BUILDING INSPECTION
CITY OF MADISON
215 MARTIN LUTHER KING JR BLVD
MADISON WI 53710

CONDITIONAL APPROVAL

(Please forward a copy of this letter to the fire department conducting inspections of this project.)

PLAN APPROVAL EXPIRES: 09/10/2019

Identification Numbers
Transaction ID No. 3122662 **Site ID No. 845201**
Please refer to both identification numbers, above, in all correspondence with the agency.

SITE:
Royster Crossings
516 Cottage Grove Rd
City of Madison
Dane County

FOR:
Facility: 779751 ROYSTER CROSSINGS - PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE RD

Object Type: **Building ICC** Regulated Object ID No.: 1783212 Code Applies Date: 08/23/18
Major Occupancy: Assembly; Type IA Fire Resistive class of construction; Alteration plan; 20,460 project sq ft; Completely Sprinklered; Occupancy: A-3 Other Assembly Uses; Sprinkler Design: NFPA-13 Sprinkler; Allowable area determined by: Separated Use, Fire Barrier

Object Type: **HVAC ICC System** Regulated Object ID No.: 1783213 Code Applies Date: 08/23/18
Smoke detection system; 20,460 sq ft Area Heated

SITE REQUIREMENTS

- Contact both the State Inspector and the local municipality PRIOR to the start of construction.
- A full size copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. If plan index sheets were submitted in lieu of additional full plan sets, a copy of this approval letter and index sheet shall be attached to plans that correspond with the copy on file with the Department. If these plans were submitted in an electronic form, the designer is responsible to download, print, and bind the full size set of plans along with our approval letter. A department electronic stamp and signature shall be on the plans which are used at the job site for construction.

The following conditions shall be met during construction or installation and prior to occupancy or use:

SUBMIT – The following systems require submittal for review and approval prior to construction.

- **SPS 361.30(3)** - Unless the sprinkler system is part of a multi-purpose piping system, or an exception listed under SPS 361.30(4)(b) [i.e. alteration or addition of 20 or fewer sprinkler heads to an existing fire sprinkler system] is met, submit prior to installation, properly signed and sealed fire suppression plans to the Industry Services office that reviewed the building plans except for the Holmen office. A review appointment and simplified application completion may be made in advance by using the online plan review request retrieval feature and the next available appointment feature from our web page at http://165.189.64.111/Default.aspx?Page=fe17ff79-0c6c-42c7-9c1f-0da69cfa7e16 If this is a multi-purpose piping system, then submit plans per the Plumbing program requirements explained at http://dsps.wi.gov/Default.aspx?Page=bf2c2d08-4a18-4797-8a83-5dd5d48c0943

- **SPS 361.30(3) -** Submit, prior to installation, four (4) sets of fire alarm plans, calculations substantiating the design, and a completed SB-118 application form including this transaction number as a previous transaction and appropriate fees to the Industry Services office that reviewed the building plans if reviewed in the Green Bay, Madison or Waukesha offices. If the building plans were reviewed in the Holman or Hayward Industry Service offices, the designer may choose the Green Bay, Madison or Waukesha offices. A review appointment and simplified application completion may be made in advance by using the online plan review request retrieval feature and the next available appointment feature from our web page at: https://dsps.wi.gov/Pages/SelfService/Default.aspx Note that per SPS 361.30(4), the submission and approval of fire alarm system plans is not required for a project involving 20 or fewer alarm devices located in an existing fire alarm system.
- **SPS 361.30(3) -** It has been determined that this building will include 16 or more plumbing fixtures, thus plumbing plans must be submitted and approved prior to installation. Review Tables SPS 382.20-1 & 2 for specifics on plumbing plan submittal. You may contact any general plumbing plan reviewer at: 608-266-9647.

REMINDERS

- **IBC 703.7 -** Firewalls, fire barriers, fire partitions, smoke barriers, and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified in the field with signs or stenciling spaced and sized per this section unless a listed code exception is met.
- **IBC 1004.3 -** Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or owner's authorized agent.
- **IBC 2204.1/SPS 362.2204(1) -** The details of design, workmanship and technique for welding, inspection of welding, and qualifications of welding operators shall conform to the requirements of the specifications listed in IBC sections 2205, 2206, 2207, 2209 and 2210. **Note: The rules pertaining to registration of structural welders are specified in ch. SPS 305.** Provide a licensed structural welder (as issued by the WI Dept. of Safety & Professional Services) for areas of the building where structural welding will occur. The name of the worker and proof of licensure shall be made available to the Dept. representative upon request.
- **IMC 606 -** Provide a duct smoke detection system in new duct systems, with appropriate controls, unless (1) the return air rate is 2,000 cfm or less (See balancing report SPS 364.0313), OR (2) where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the International Fire Code. The smoke detection system shall shut down the air distribution system upon activation. Smoke detectors shall be connected to a fire alarm system. The activation of a smoke detector shall activate a visible and audible supervisory signal at a constantly attended location unless exceptions are met. The detectors shall be located in the return duct. By definition in IMC 202, an air distribution system consists of "...air-handling equipment that circulates air within a space or spaces and includes systems made up of one or more air-handling units." Multiple systems shall have their return air added aggregately for any one space when determining application of the 2,000 cfm return air criteria.
- The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements. Only those object types listed above have been approved; other submittals such as plumbing and those listed above under **REQUIRED SUBMITTAL(S)**, may also be required.
- All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation. You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams.
- This plan has not been reviewed for compliance with fire code requirements, including those for fire lanes and fire protection water supply, so contact the local fire department for further information.
- In granting this approval, the Division of Industry Services reserves the right to require changes or additions, should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component. The Division does not take responsibility for the design or construction of the reviewed items.
- Per s. SPS 361.40(4), projects for buildings of over 50,000 cubic feet total volume shall have supervising professionals who file compliance statements with this agency and the local code officials prior to occupancy of the project. The compliance statement is available on our website. http://verification.dsps.wi.gov/IndustryServices/Commercial-Buildings-Compliance/DSPSMainForm.aspx

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,

Larry

Fee Required $ 1,700.00

This Amount Will Be Invoiced. When You Receive That Invoice, Please Include a Copy With Your Payment Submittal.

Laurence J Wiest, P.E.
Building Consultant , Division of Industry Services
(920)492-5609 , Mon-Fri, 8:00 a.m. - 4:30 p.m.
laurence.wiest@wi.gov

cc: Steve Gothard, State Building Inspector, (608) 235-0568, Monday 7:45 A.M. - 4:30 P.M.
Paul Hansen, IMEG
Bryan Cooper, City of Madison Dept of Engineering Public Works



PINNEY LIBRARY

516 COTTAGE GROVE ROAD, MADISON, WI

OPN ARCHITECTS

IMEG

CITY OF MADISON WISCONSIN

MADISON PUBLIC LIBRARY

Foundation
MADISON PUBLIC LIBRARY

ARCHITECT

OPN ARCHITECTS
301 NORTH BROOM ST, SUITE 100
MADISON, WI 53703

M/E/P/T ENGINEER

IMEG CORP.
1800 DEMING WAY, SUITE 200
MIDDLETON, WI 53562

06/01/2018

100% CONSTRUCTION DOCUMENTS

PINNEY LIBRARY

516 COTTAGE GROVE ROAD,
MADISON, WISCONSIN

SHEET INDEX

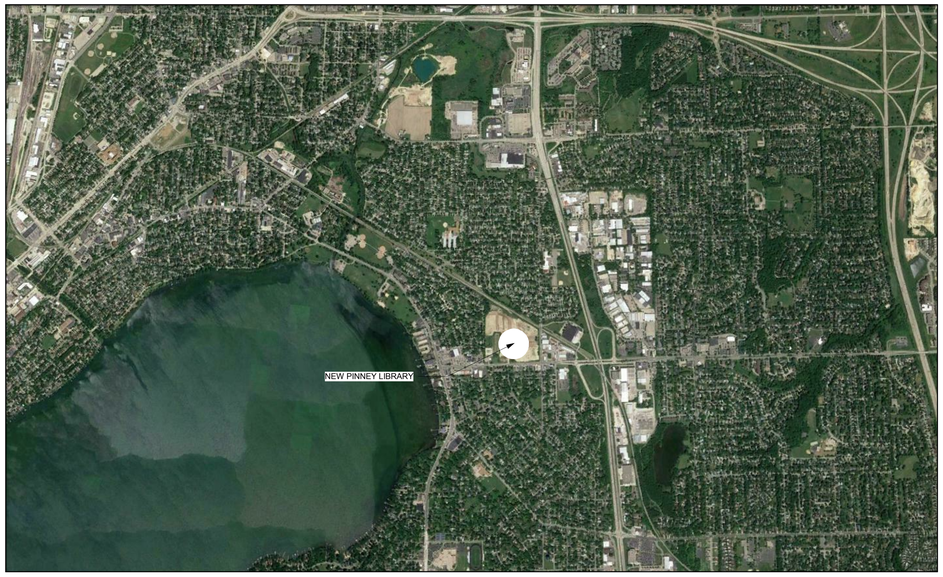
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BUILDING & HVAC ALTERATION

Conditionally
APPROVED
DEPT. OF SAFETY AND PROFESSIONAL SERVICES
DIVISION OF INDUSTRY SERVICES

SEE CORRESPONDENCE

SEPTEMBER 10, 2018
TRANSACTION ID NO. 3122662



1 LOCATION MAP - PROJECT LOCATION
1/8" = 1'-0"

PROJECT NARRATIVE

The project consists of a ~20,000 SF interior build out in the new Royster Corners development. The library will occupy half of the first floor of the new building which will have additional commercial and residential tenant spaces. As a neighborhood library, the project seeks to reflect the needs and values of the surrounding neighborhood by providing a welcoming and inclusive environment. A focus on early literacy will be at the forefront of the design with technology, print, and staff and patron interaction key components to connecting with the community.

ARCHITECT OF RECORD:
OPN ARCHITECTS

I hereby certify these plans and specifications were prepared by me or under my direct personal supervision and that I am a duly licensed professional architect under the laws of the state of Wisconsin.

WISCONSIN — WESLEY T. REYNOLDS — 11709-5 — MADISON, WISCONSIN — ARCHITECT

Name: Wesley Reynolds
Discipline: Architect
Registration No: 11709-5 **Expiration Date:** 07/31/2020
Sheets covered by this seal: Listed As "Architectural"

STRUCTURAL ENGINEER:
IMEG CORP.

I hereby certify this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer under the laws of the state of Wisconsin.

WISCONSIN — ABBY PERTZBORN — E-38745-6 — MADISON WI — PROFESSIONAL ENGINEER — 8/20/18

Name: Abby A. Pertzborn
Discipline: Structural Engineer
Registration No: E38745-6 **Expiration Date:** 7/31/2020
Sheets covered by this seal: Listed As "Structural"

MECHANICAL/ PLUMBING ENGINEER:
IMEG CORP.

I hereby certify this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer under the laws of the state of Wisconsin.

WISCONSIN — PAUL P. HANSEN — E-41764-6 — COTTAGE GROVE WI — PROFESSIONAL ENGINEER — 8-23-18

Name: Paul P. Hansen
Discipline: Mechanical Engineer
Registration No: E41764-6 **Expiration Date:** 07/31/2020
Sheets covered by this seal: Listed As "Mechanical" / "Plumbing"

PUBLIC IMPROVEMENT PROJECT APPROVED:	**PUBLIC IMPROVEMENT DESIGN APPROVED BY:**
RES -	_____
FILE ID	**CITY ENGINEER**
DATE	_____
BY THE COMMON COUNCIL OF MADISON, WI	**DATE**

OPN ARCHITECTS
301 N Broom St., Suite 100
Madison, WI 53703
P: 608-819-0260

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MEP/T Engineer

IMEG

1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601

Key Plan

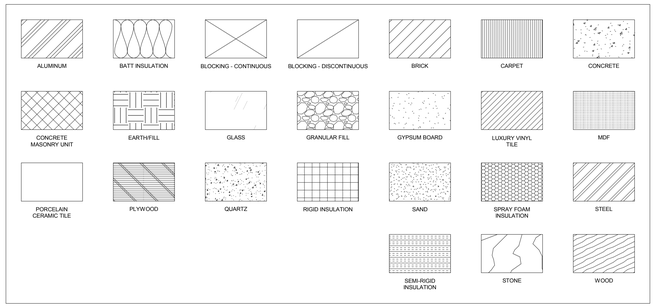
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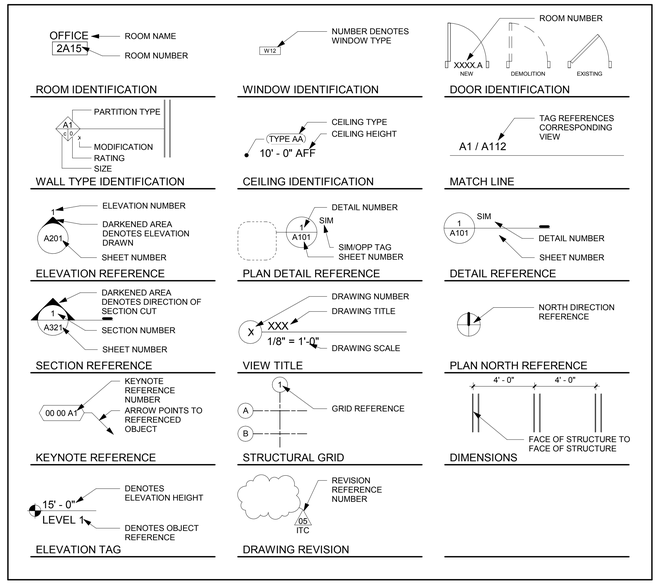
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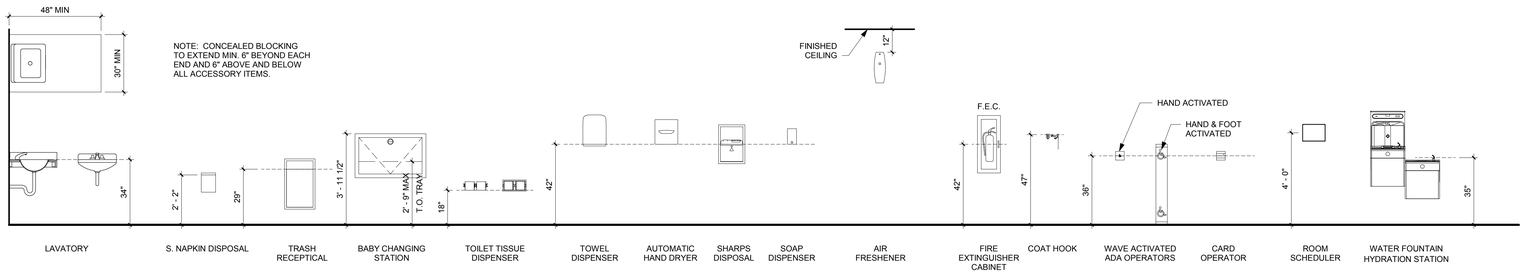
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STANDARD MATERIAL DEFINITIONS



STANDARD SYMBOLS



STANDARD MOUNTING HEIGHTS

STANDARD ABBREVIATIONS

#	NUMBER
ACM	ALUMINUM COMPOSITE METAL CEILING PANEL
ACP	ACOUSTICAL CEILING PANEL
AFF	ABOVE FINISH FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BC	BOTTOM OF CURB
BM	BENCH MARK
BOC	BACK OF CURB
BOS	BOTTOM OF STEEL
BOW	BOTTOM OF WALL
BRG	BEARING
BS	BOTTOM OF STAIR
C	CHANNEL
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLL	CONSTRUCTION LIMITS LINE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CRK	CORK
DEMO	DEMOLISH / DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EPF	EPOXY FLOORING
EPT	EPOXY PAINT
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FD	FLOOR DRAIN
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FOC	FACE OF CURB
FOF	FACE OF FINISH
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GHM	GALVANIZED HOLLOW METAL
GL	GLASS
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HORZ	HORIZONTAL
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING/VENTING/AIR CONDITIONING
ID	INSIDE DIAMETER
L	ANGLE
LB/LBS	POUND / POUNDS
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MB	MARKERBOARD
MC	MECHANICAL CONTRACTOR
MDF	MEDIUM DENSITY FIBERBOARD
MFR	MANUFACTURERS
MH	MANHOLE
MIL	MIL THICKNESS
MIN	MINIMUM
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OTS	OPEN TO STRUCTURE
PCT	PORCELAIN CERAMIC TILE
PL	PLATE
PLAM	PLASTIC LAMINATE
PVC	POLY VINYL CHLORIDE
PT	PAINT
QT	QUARTZ
RAD	RADIUS
RD	ROOF DRAIN
RAF	RESILIENT ATHLETIC FLOORING
REX	RESIN
REV	REVISION
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RUB	RUBBER
SF	SQUARE FEET
SIM	SIMILAR
SS	SOLID SURFACE
STN	STONE
ST STL	STAINLESS STEEL
SUSP	SUSPENDED
T&G	TONGUE AND GROOVE
TOC	TOP OF CURB
TOM	TOP OF MASONRY
TOS	TOP OF SLAB / TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TS	TOP OF STAIR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WB	WALL BASE
WC	WALL COVERING
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WALL PROTECTION
WT	WINDOW TREATMENT
WWF	WELDED WIRE FABRIC

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Key Plan

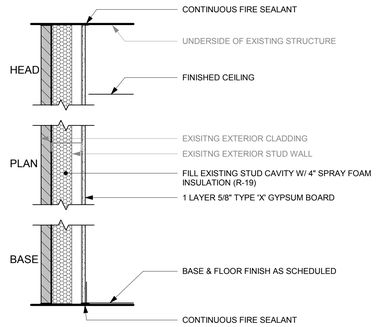
Revision | Date

OPN Project No.
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Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

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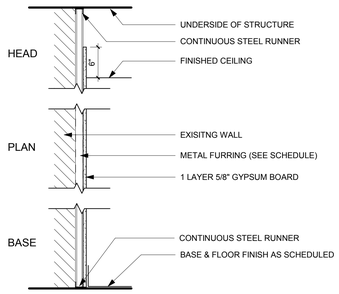
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C2 EXTERIOR FURRED PARTITION

NON RATED / NON-LOAD BEARING

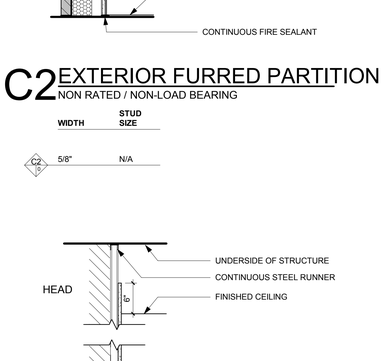
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C1 FURRED PARTITION

NON RATED / NON-LOAD BEARING

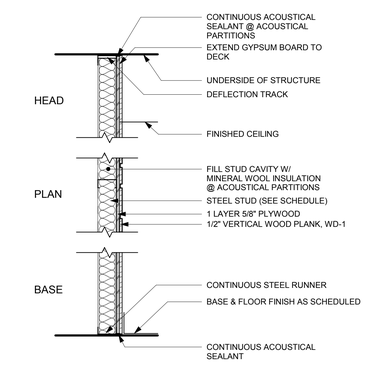
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C1 / A1.0	1 5/8"	1"
C1 / A1.0	2 1/8"	1 1/2"
C1 / A1.0	2 5/8"	2"
C1 / A1.0	3 5/8"	3"



A3 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

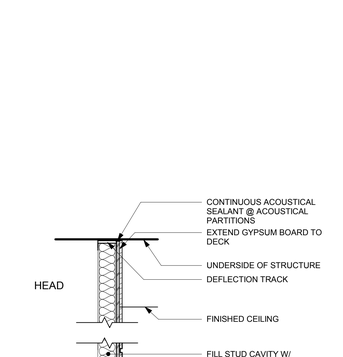
	WIDTH	STUD SIZE
A3 / A1.0	2 7/8"	1 5/8"
A3 / A1.0	4 7/8"	3 5/8"
A3 / A1.0	7 1/8"	6"



A6 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

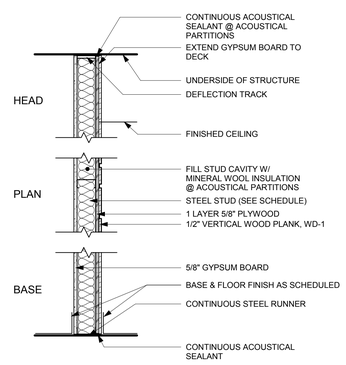
	WIDTH	STUD SIZE
A2 / A1.0	2 3/4"	1 5/8"
A2 / A1.0	4 3/4"	3 5/8"
A2 / A1.0	7 1/8"	6"



A2 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

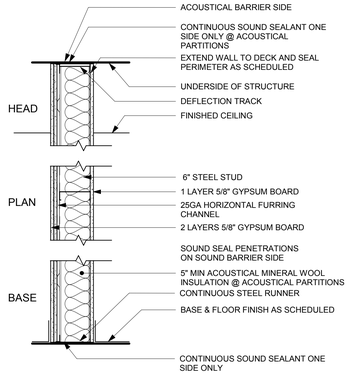
	WIDTH	STUD SIZE
A2 / A1.0	2 1/4"	1 5/8"
A2 / A1.0	4 1/4"	3 5/8"
A2 / A1.0	6 5/8"	6"



A5 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

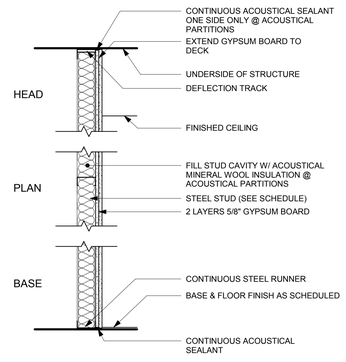
	WIDTH	STUD SIZE
A2 / A1.0	3 3/8"	1 5/8"
A2 / A1.0	5 3/8"	3 5/8"
A2 / A1.0	7 3/4"	6"



A4 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

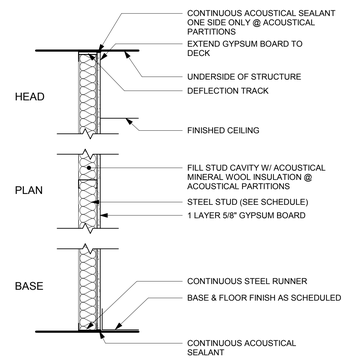
	WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
A3 / A1.0	8 3/8"	6"	U453	59	0-HR



A3 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

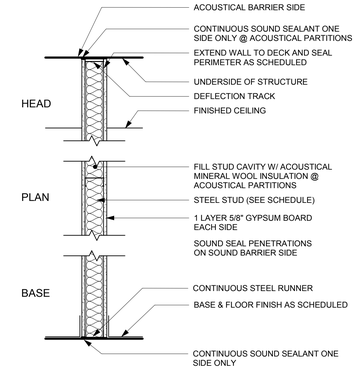
	WIDTH	STUD SIZE
A3 / A1.0	2 7/8"	1 5/8"
A3 / A1.0	4 7/8"	3 5/8"
A3 / A1.0	7 1/8"	6"



A2 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

	WIDTH	STUD SIZE
A2 / A1.0	2 1/4"	1 5/8"
A2 / A1.0	4 1/4"	3 5/8"
A2 / A1.0	6 5/8"	6"



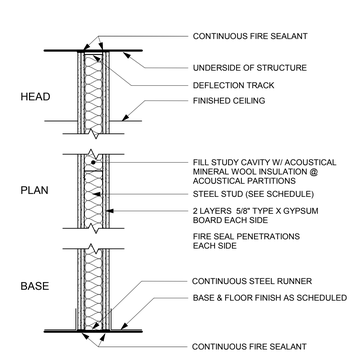
A1 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

	WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
A1 / A1.0	4 7/8"	3 5/8"	U419	49	0-HR
A1 / A1.0	7 1/4"	6"	U419	49	0-HR

2 HOUR RATED / NON-LOAD BEARING

	WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
A1 / A1.0	6 1/8"	3 5/8"	U419	54	2-HR
A1 / A1.0	8 1/2"	6"	U419	54	2-HR



GENERAL NOTES

1. REFER TO FLOOR PLANS FOR PARTITION TYPE LOCATIONS.
2. STEEL FRAME PARTITIONS ARE BASED ON DESIGN INFORMATION INCLUDED IN PRODUCT TECHNICAL INFORMATION OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PUBLICATION DATED 2000 AND THE FOLLOWING PERFORMANCE CRITERIA:

   A. LIMITING HEIGHT CRITERIA:

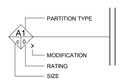
   - DEFLECTION OF L/360 AT ALL WALLS TO RECEIVE TILE.
   - DEFLECTION OF L/240 AT ALL OTHER WALLS AT 5 LBS. PER SQ. FT.

   B. THICKNESS - STEEL COMPONENTS:

GAUGE	DESIGN THICKNESS
25	0.0188
22	0.0283
20	0.0346
18	0.0451

3. MINIMUM GAUGE: IF LIMITING HEIGHT AS SCHEDULED IN PARTITION DETAILS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURER'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE, PROVIDE MANUFACTURER'S STANDARD THICKNESS(GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED.
4. WOOD BLOCKING CONCEALED BY GYPSUM BOARD DOES NOT NEED TO BE FIRE TREATED.
5. ACOUSTIC PARTITIONS: REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT

PARTITION TYPE AND SYMBOL LEGEND



	PARTITION TYPE
	SYSTEM
A	STEEL FRAMED
B	SHAFT WALL
C	FURRED
D	MASONRY
E	SPECIAL FINISHES
T	TEMPORARY PARTITION

	SIZE
	STEEL STUD
a	1 5/8"
b	2 1/2"
c	3 5/8"
d	6"
e	7 1/4"
	SHAFT WALL STUD
f	2 1/2"
g	4"
h	6"
	STEEL FURRING
j	7/8" Hat Channel
k	1" Z
l	1 1/2" Z
m	2" Z
n	3" Z
	LIGHT GAUGE STRUCTURAL STEEL (SEE STRUCTURAL)
u	6"
v	12"

	RATING
0	NON-RATED
S	SMOKE
1	1 HOUR
2	2 HOUR
3	3 HOUR
4	4 HOUR

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Key Plan

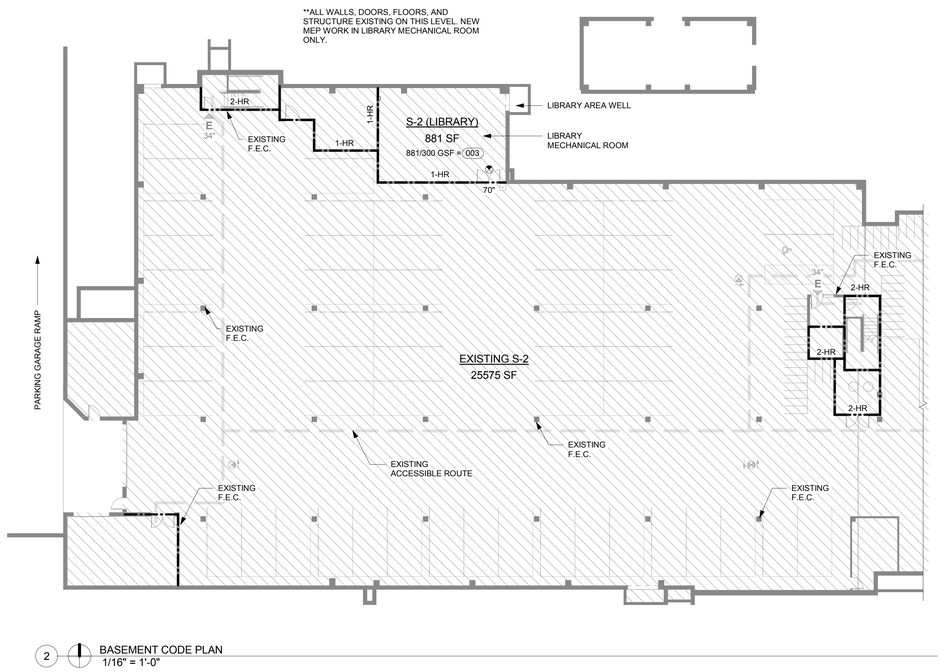
Revision Date

OPN Project No.
17609000

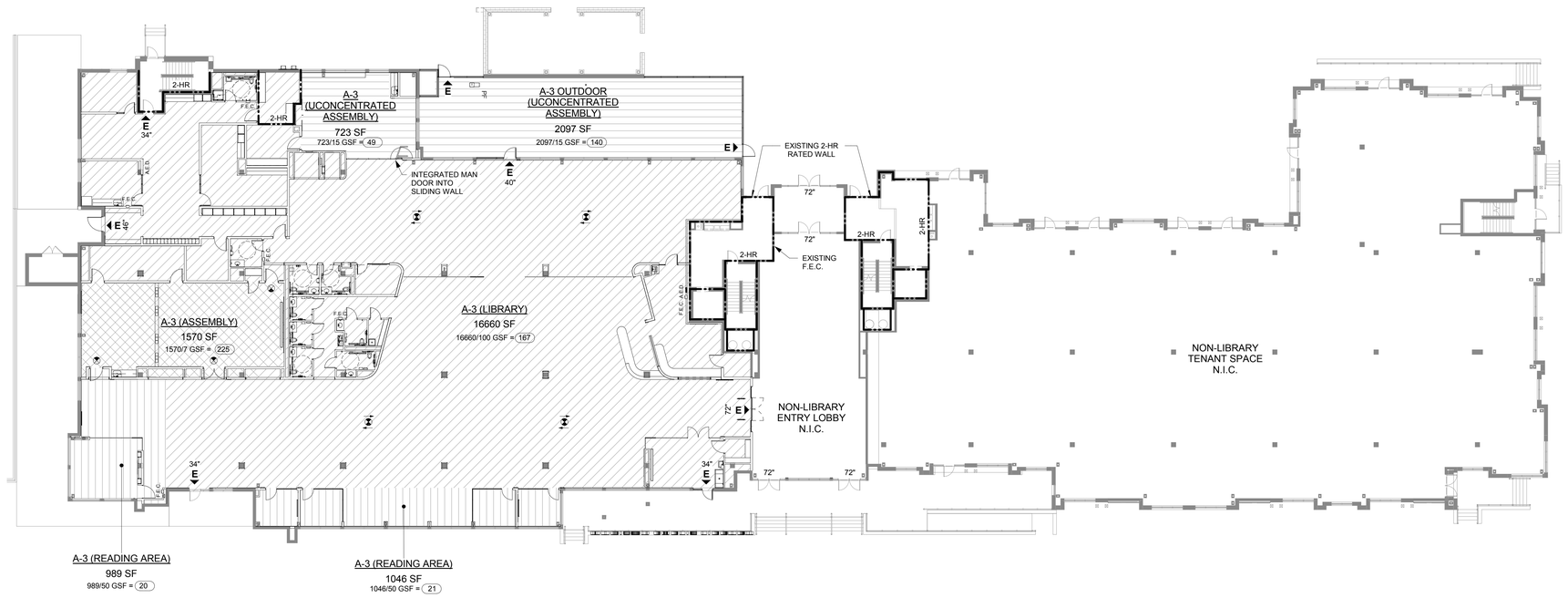
Sheet Issue Date
100% CONSTRUCTION DOCUMENTS 06/01/2018

Sheet Name
WALL TYPES

Sheet Number
AG003



2 BASEMENT CODE PLAN
1/16" = 1'-0"



1 LEVEL 1 CODE PLAN
1/16" = 1'-0"

APPLICABLE CODE INFORMATION

APPLICABLE CODE PER CITY OF MADISON AND STATE OF WISCONSIN
2015 International Building Code (IBC)
2015 International Energy Conservation Code
2015 International Fuel Gas Code
2015 International Mechanical Code
International Fire Code

BUILDING DESCRIPTION
THE PROJECT INCLUDES A 20,460 SF FITOUT OF AN EXISTING 86 UNIT APARTMENT BUILDING ABOVE FIRST FLOOR COMMERCIAL SPACE WITH BASEMENT PARKING. THE FIT-OUT WILL OCCUPY HALF OF THE FIRST FLOOR AND WILL BE A SPRINKLERED, TYPE IA CONSTRUCTION WITH A 2-HR FIRE SEPARATION BETWEEN THE COMMERCIAL SPACE AND RESIDENTIAL UNITS. THE EXISTING CORE AND SHELL WILL BE CONSTRUCTED UNDER THE 2009 INTERNATIONAL BUILDING CODE AND THE NEW FIT-OUT WILL BE CONSTRUCTED UNDER THE 2015 INTERNATIONAL BUILDING CODE.

INTERNATIONAL BUILDING CODE SUMMARY

CHAPTER 3 - USE & OCCUPANY CLASSIFICATION

OCCUPANCY CLASSIFICATION: ASSEMBLY (A-3) LIBRARY

303.4 ASSEMBLY GROUP A-3
GROUP A-3 OCCUPANCY INCLUDES ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A INCLUDING, BUT NOT LIMITED TO:
LIBRARIES

CHAPTER 5 - GENERAL BUILDINGHEIGHTS AND AREAS

THE EXISTING BUILDING HEIGHTS AND AREAS MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE FOR BOTH HEIGHTS AND AREA FOR WHICH THE BUILDING WAS DESIGNED AND CONSTRUCTED. NO ALTERATIONS TO THE BUIDLING HEIGHTS OR AREAS ARE MADE AS PART OF THIS PROJECT.

508 MIXED USE AND OCCUPANCY
508.1 GENERAL
ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR POTION THEREOF. ACCESSORY OCCUPANCIES SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 508.2.1 THROUGH 508.2.4.

508.2.4 SEPARATION OF OCCUPANCIES
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

CHAPTER 6 - TYPES OF CONSTRUCTION

THE EXISTING SPACE WAS CONSTRUCTED AS A SPRINKLED, TYPE I BUILDING PER 2009 IBC. NO ALTERNATIONS TO THE TYPE OF CONSTRUCTION OR FIRE RATINGS ARE MADE AS PART OF THIS PROJECT.

ALL FIRE RATINGS WILL BE MAINTAINED IN ACCORDANCE WITH SECTION 602.2.

CHAPTER 9 - FIRE PROTECTION SYSTEMS

THE EXISTING SPACE WAS CONSTRUCTED AS A SPRINKLED SPACE PER 2009 IBC.

MODIFICATIONS TO THE SYSTEM WILL BE MADE TO ACCOMMODATE THE NEW SPACE CONFIGURATION AND WILL BE UPDATED TO THE LATEST CODE.

906 PORTABLE FIRE EXTINGUISHERS
906.3 SIZE AND DISTRIBUTION
THE SIZE AND DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH SECTIONS 906.1 THROUGH 906.3.4.
MAX TRAVEL DISTANCE = 75 FEET.

CHAPTER 10 - MEANS OF EGRESS

1004 DESIGN OCCUPANT LOAD
LIBRARY
A-3 ASSEMBLY

100 GSF/OCCUPANT (STACK AREA, ADMIN AREAS)	17505 GSF/100 =	167 OCCUPANTS
50 GSF/OCCUPANT (READING AREA)	1138 GSF/50 =	41 OCCUPANTS
15 SF/OCCUPANT (ASSEMBLY, UNCONCENTRATED)	723 NSF/15 =	49 OCCUPANTS
15 SF/OCCUPANT (OUTDOOR ASSEMBLY, UNCONCENTRATED)		
	2097 NSF/15 =	140 OCCUPANTS
7 SF/OCCUPANT (ASSEMBLY, CONCENTRATED, SEATED)	1570 NSF/7 =	225 OCCUPANTS
300SF/OCCUPANT (MECHANICAL)	881 GSF/300 =	03 OCCUPANTS

TOTAL **625 OCCUPANTS**

1005 MEANS OF EGRESS SIZING
EGRESS WIDTH
0.2" X 625 OCCUPANTS = REQUIRED 125" < PROVIDED = 260"

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

1017 EXIT ACCESS TRAVEL DISTANCE
TRAVEL DISTANCE WITHIN THE EXIT ACCESS PORTION OF THE MEANS OF EGRESS SYSTEM SHALL BE IN ACCORDANCE WITH THIS SECTION
A OCCUPANCY = 250 TRAVEL DISTANCE (W/ SPRINNKLER SYSTEM)
B OCCUPANCY = 300 TRAVEL DISTANCE (W/ SPRINNKLER SYSTEM)

1020 DEAD ENDS
WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET IN LENGTH.
EXCEPTION 2:
IN OCCUPANCIES IN GROUPS B, E, F, I-1, M, R-1, R-2, R-4, A AND Y, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50 FEET.

EXCEPTION 3:
A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGTH WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.

1024 EXIT PASSAGEWAYS
1024.2 WIDTH
THE REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES, EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL BE NOT LESS THAN 36 INCHES IN WIDTH. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.

CHAPTER 29 - PLUMBING SYSTEMS

DESIGN OCCUPANT LOAD = 625 OCCUPANTS / 2 = 313 MALE & 313 FEMALE

A-3 IS THE MAIN OCCUPANCY CLASSIFICATION AND IS ASSUMED FOR THE ENTIRE FACILITY: **AUDITORIUMS WITHOUT PERMANENT SEATING**, ART GALLERIES, EXHIBITION HALLS, MUSEUMS, LECTURE HALLS, **LIBRARIES**, ARCADES AND GYMNASIUMS.

REQUIRED:

OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	1/125	1/65	1/200	0	1/500	1 SERVICE SINK

CALCULATED:

OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	313/125 =	313/65 =	625/200 =		625/500 =	
	2.504	**4.815**	**3.125**	**1**	**1.25**	

PROVIDED:

OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	3	5	8	1 SHOWER	3 DF	1 SERVICE SINK
	8 UNISEX TOILETS PROVIDED		**8 UNISEX LAVS PROVIDED**			

CODE PLAN LEGEND
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- NON-RATED WALL
- EXISTING WALL
- F.E.C. FIRE EXTIGUISHER CABINET
- A.E.D. AUTOMATED EXTERNAL DEFIBRILLATOR
- 100 S.F. (GROSS) PER OCCUPANT LIBRARY STACKS AND STAFF WORK (A-3)
- 50 S.F. (NET) PER OCCUPANT LIBRARY READING ROOMS (A-3)
- 15 S.F. (NET) PER OCCUPANT ASSEMBLY (UNCONCENTRATED) AREAS (A-3)
- 7 S.F. (NET) PER OCCUPANT ASSEMBLY (CONCENTRATED) AREAS (A-3)
- 300 S.F. (GROSS) PER OCCUPANT MECHANICAL ROOM / EXISTING PARKING GARAGE (S-2)
- (002) OCCUPANT LOAD

REQUIRED EGRESS WIDTH:

STAIRWAY = .2/PERSON
(SEC. 1005.3.1 - EXCEPTION)
DOORS = .15/PERSON
(SEC. 1005.3.2 - EXCEPTION)

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Key Plan

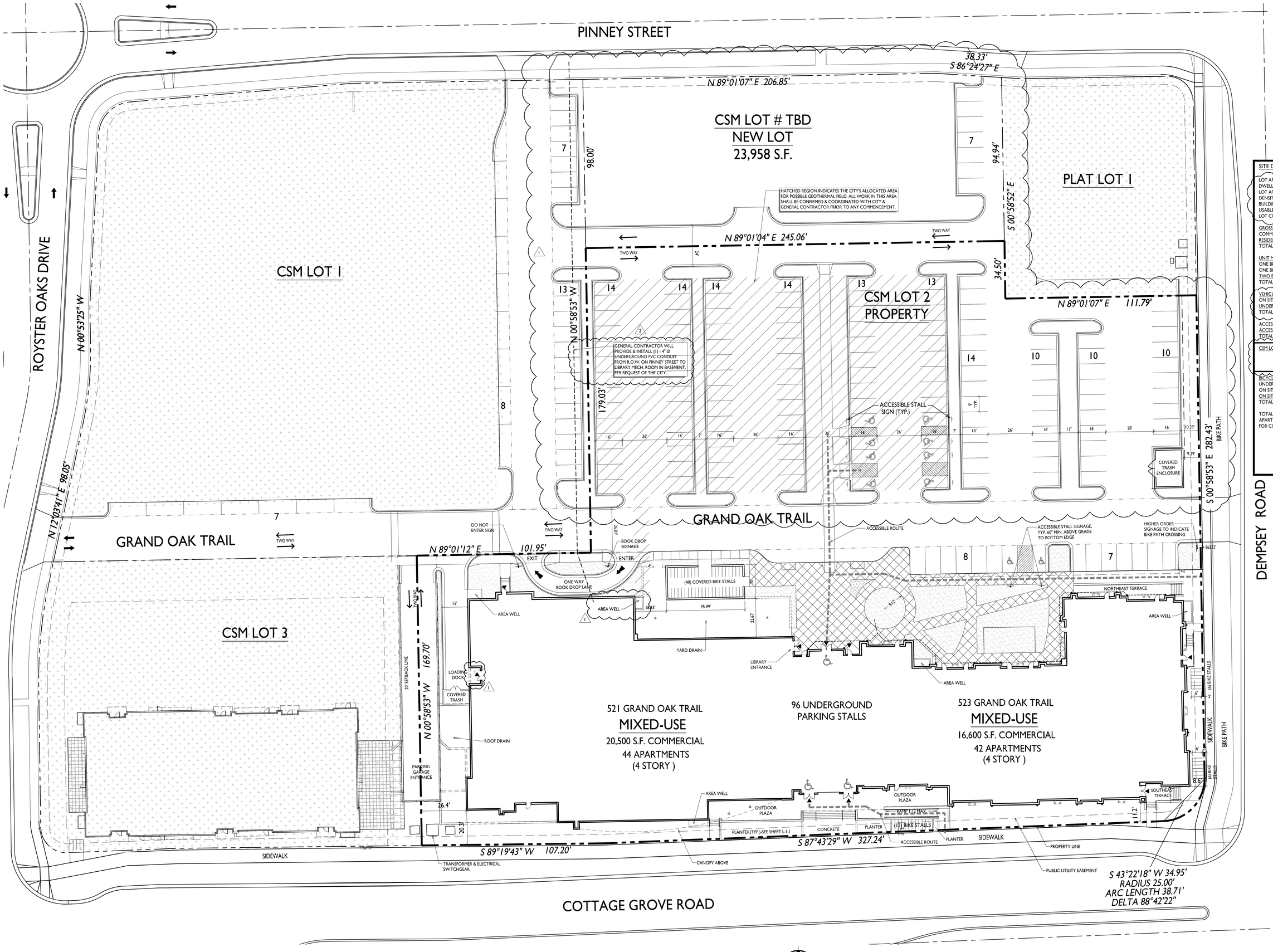
Revision Date

OPN Project No.
17609000

Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name
CODE REVIEW & LIFE SAFETY PLAN

Sheet Number
AG004



1 C-1.1 SITE PLAN
1" = 20'

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SITE DEVELOPMENT STATISTICS

LOT AREA	136,599 S.F./ 3.13 ACRES
DWELLING UNITS	86 DU
LOT AREA/D.U.	1,588 S.F./D.U.
DENSITY	27.48 UNITS/ACRE
BUILDING HEIGHT	4 STORIES
USABLE OPEN SPACE	27,194 S.F. (316/UNIT)
LOT COVERAGE	114,107 S.F. (83%)

GROSS FLOOR AREA	
COMMERCIAL AREA	37,100 S.F.
RESIDENTIAL AREA	104,465 S.F.
TOTAL	141,565 S.F.

UNIT MIX	
ONE BEDROOM	46
ONE BEDROOM + DEN	6
TWO BEDROOM	34
TOTAL	86

VEHICLE PARKING	
ON SITE	183 STALLS
UNDERGROUND	96 STALLS
TOTAL	279 STALLS

ACCESSIBLE STALLS ON SITE	10
ACCESSIBLE STALLS UNDERGROUND	2
TOTAL ACCESSIBLE STALLS	12

CSM LOT 2 - ONSITE PARKING ALLOCATION	
LIBRARY	80 STALLS
MIXED USE	61 STALLS
TOTAL	141 STALLS

BICYCLE PARKING	
UNDERGROUND 2X6	78
ON SITE COVERED	40
ON SITE UNCOVERED	24
TOTAL PROVIDED	142 STALLS

TOTAL REQUIRED - 114 (86 PERMANENT FOR APARTMENTS, 9 GUEST FOR APARTMENTS, 19 GUEST FOR COMMERCIAL SPACE)

ISSUED
Issued for Bid: September 25, 2015
Revised Bid Set: January 19, 2016
Issued For Plan Review: February 8, 2016
Revised - March 23, 2016

2 Revised - September 15, 2017
1 Implemented City's LOI Clarifications - August 7, 2017

PROJECT TITLE
ROYSTER CROSSINGS

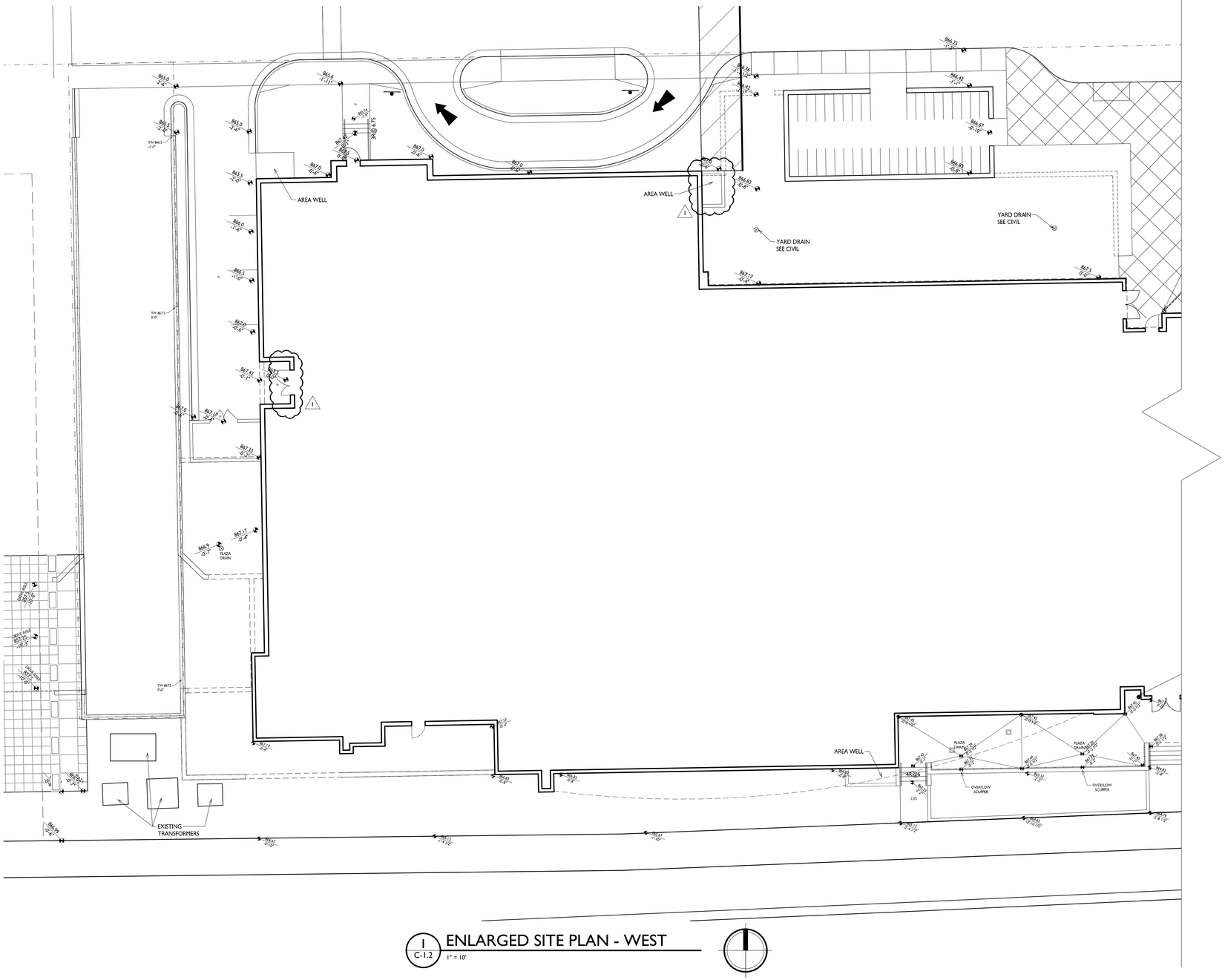
521-523 Grand Oak Trail
MADISON, WI

SHEET TITLE
Site Plan

SHEET NUMBER
C-1.1

PROJECT NO. 1421

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1 C-1.2 ENLARGED SITE PLAN - WEST

1" = 10'

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ROYSTER CROSSINGS

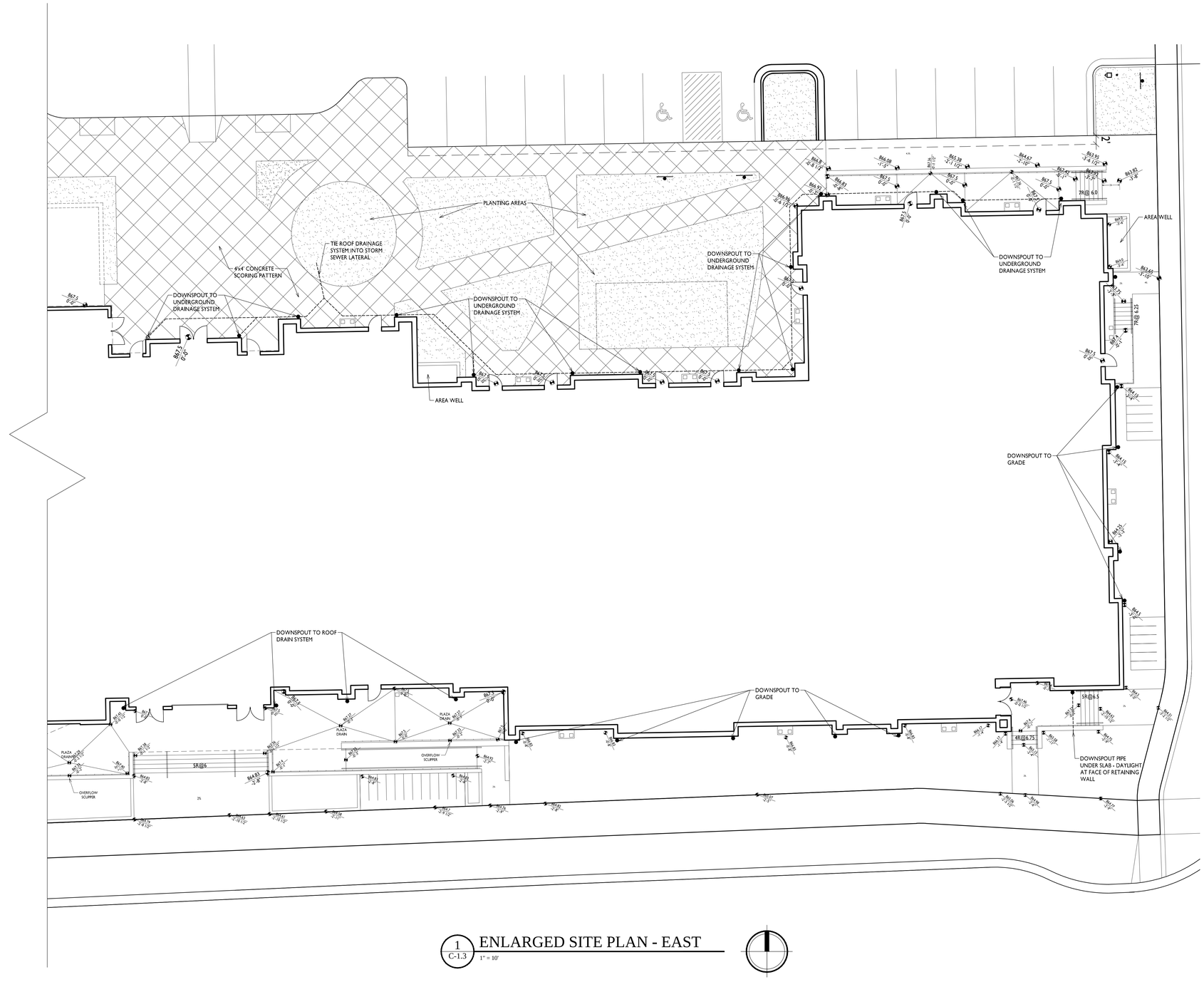
521-523 Grand Oak Trail
MADISON, WI

SHEET TITLE
Enlarged Site Plan - West

SHEET NUMBER
C-1.2

PROJECT NO. 1421

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1 C-1.3 ENLARGED SITE PLAN - EAST

1" = 10'

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PROJECT TITLE
ROYSTER CROSSINGS

521-523 Grand Oak Trail
MADISON, WI

SHEET TITLE
Enlarged Site Plan - East

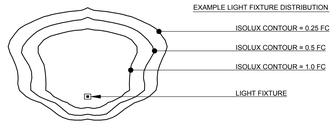
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C-1.3

PROJECT NO. 1421

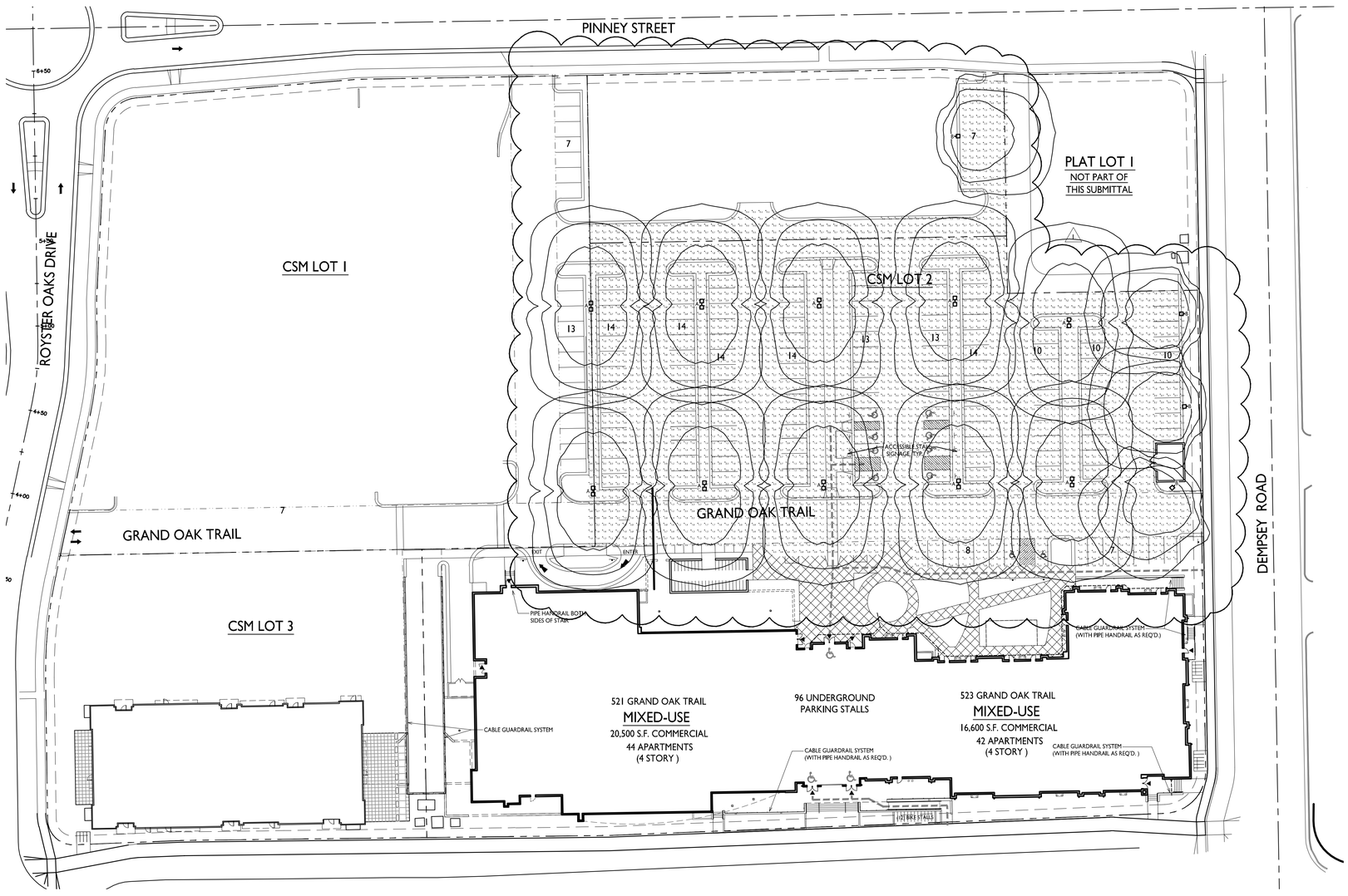
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LIGHTING SCHEDULE								
Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	File	Mounting
	A	10	RUUD LIGHTING	MAC410SBL	12" AREA CUTOFF w/ BACK LT. SHIELD	175W MH	MAC417SBL.ies	20'-0" POLE ON 6" TALL CONC. BASE
	B	4	RUUD LIGHTING	MAC410SBL	12" AREA CUTOFF w/ BACK LT. SHIELD	175W MH	MAC417SBL.ies	20'-0" POLE ON 6" TALL CONC. BASE

EXAMPLE LIGHT FIXTURE DISTRIBUTION



LIGHTING STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING / DRIVE	+	1.3 fc	4.1 fc	0.3 fc	13.7:1	4.3:1



1 / C-1.4 SITE LIGHTING PLAN

1" = 30'-0"

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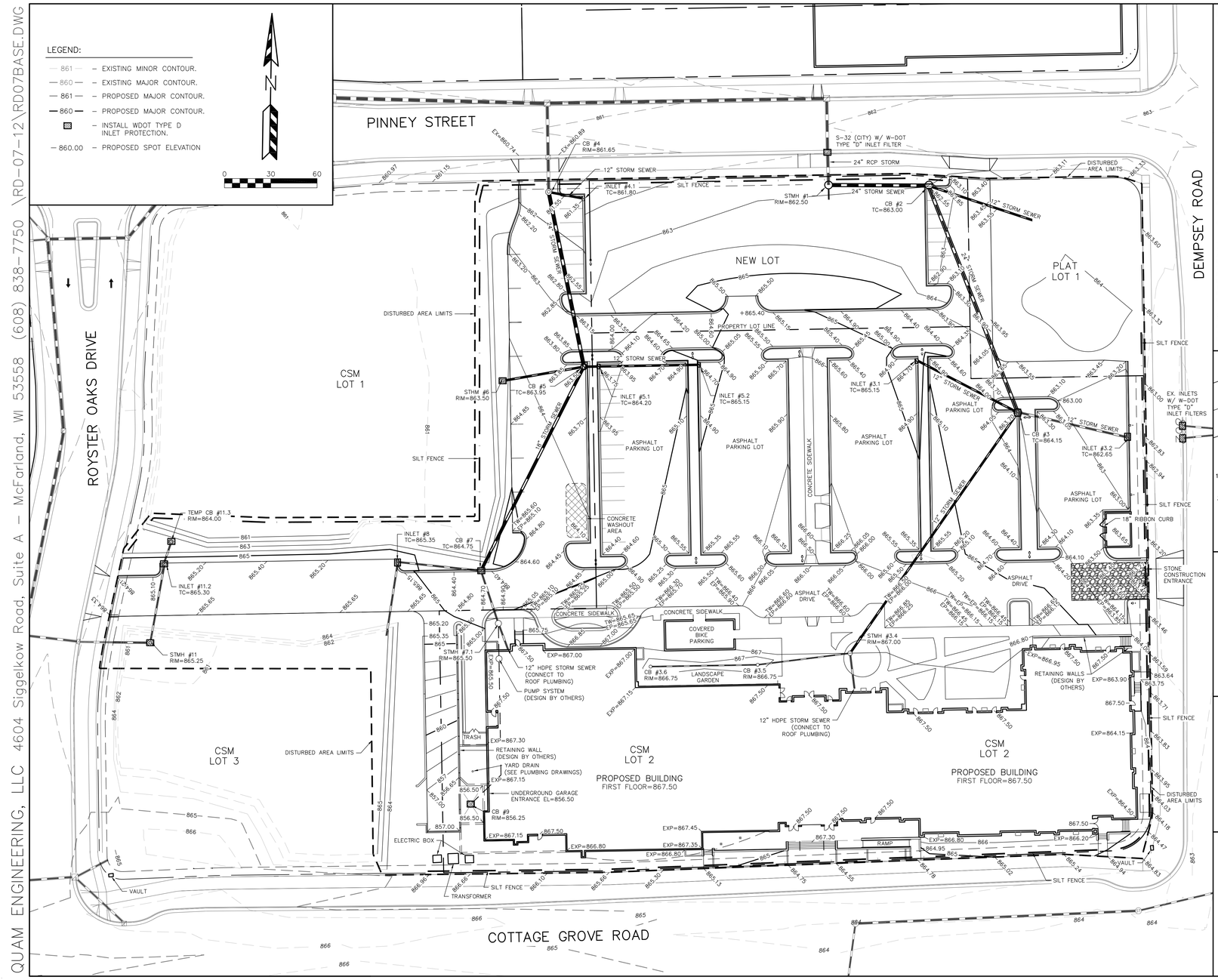
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SHEET TITLE
Site Lighting Plan

SHEET NUMBER
C-1.4

PROJECT NO. 1421

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EROSION NOTES:

1. STONE CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DIRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.
2. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
3. INLET PROTECTION SHALL BE INSTALLED IN ALL STORM INLETS AS SOON AS THE INLET IS SET. INLET PROTECTION SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL THE CITY HAS ACCEPTED THE SURFACE COURSE OF ASPHALT. THE FILTER SHALL BE REMOVED AFTER THE FINAL LAYER OF ASPHALT IS PLACED.
4. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 4:1.
5. THE EROSION CONTROL MEASURES, METHODS AND STRUCTURES SHOWN IN THE PLANS SHALL BE CONSIDERED THE MINIMUM EROSION CONTROL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES UNTIL THE DISTURBED AREA IS STABILIZED. THE SITE WILL BE CONSIDERED STABLE WHEN NO SOIL LEAVES THE SITE AS A RESULT OF STORM EVENTS OR CONSTRUCTION DEWATERING ACTIVITIES. ADJUSTMENTS SHALL BE MADE TO THE EROSION CONTROL MEASURES AS REQUIRED. ANY COMMENTS OR CONDITIONS OF THE STATE NR 216 PERMIT, OR CITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER OF THIS PROJECT INCLUDING REQUIRED EROSION CONTROL INSPECTION LOGS.
6. ANY PROPOSED CHANGES TO THE APPROVED EROSION CONTROL PLAN MUST BE APPROVED BY THE CITY ENGINEER.

TIME SCHEDULE:

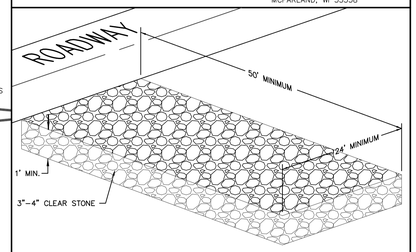
OCTOBER 2, 2017	INSTALL STONE CONSTRUCTION ENTRANCE AND SILT FENCE.
OCTOBER 2, 2017 – JULY 2, 2018	CONSTRUCT BUILDING AND PARKING LOT AND RESTORE PERVIOUS DISTURBED AREAS.

RESTORATION NOTES:

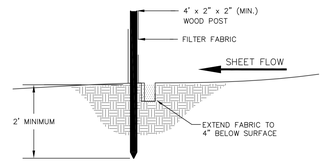
ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEED AND MULCH. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE 40 SHALL BE USED ON ALL DISTURBED AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX. SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE. FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 6%; POTASH, NOT LESS THAN 6%.

OWNER:
RUEDEBUSCH DEVELOPMENT & CONSTRUCTION
4605 DOVETAIL DRIVE
MADISON, WI 53704

ENGINEER:
QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558



STONE CONSTRUCTION ENTRANCE



SILT FENCE DETAIL

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
TDD(FOR THE HEARING IMPAIRED)(800)542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

ROYSTER CORNERS DEVELOPMENT – LOT 2
GRADING AND EROSION CONTROL PLAN
DATED: AUGUST 4, 2017

C–2.0

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A – McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

GENERAL NOTES:

ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.

ANY DAMAGE TO THE PUBLIC INFRASTRUCTURE INCLUDING SIDEWALK, CURB AND GUTTER, STREET, PAVEMENT, AND PUBLIC UTILITIES RESULTING FROM CONSTRUCTION OF THIS DEVELOPMENT SHALL BE THE APPLICANT'S RESPONSIBILITY TO REPAIR.

UTILITY NOTES:

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER.

THIS PROPERTY IS NOT IN A WELLHEAD PROTECTION DISTRICT. ALL WELLS ON PROPERTY SHALL BE ABANDONED IF NO VALID WELL OPERATION PERMIT HAS BEEN OBTAINED FROM MADISON WATER UTILITY.

ALL WATER MAIN SHALL BE BURIED TO A DEPTH OF 6.5 FEET. THE DEPTH IS DEFINED AS THE DISTANCE BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF WATER MAIN OR SERVICE.

ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY OF MADISON STANDARD SPECS.

CONTRACTOR SHALL OBTAIN ALL NECESSARY SEWER CONNECTION PERMITS AND SEWER PLUGGING PERMITS PRIOR TO ANY UTILITY WORK. THE PERMIT APPLICATION IS AVAILABLE ON LINE AT HTTP://WWW.CITYOFMADISON.COM/ENGINEERING/PERMITS.CFM.

CONTRACTOR SHALL OBTAIN A CONNECTION PERMIT AND EXCAVATION PERMIT PRIOR TO COMMENCING STORM SEWER CONSTRUCTION MGO 37.05(7). PERMIT APPLICATION IS AVAILABLE ON LINE AT HTTP: //WWW.CITYOFMADISON.COM/ENGINEERING/PERMITS.CFM.

ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.

CONTRACTOR SHALL FIELD VERIFY SANITARY, WATER, & STORM SEWER LATERALS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL PROVIDE A CONCRETE MANAGEMENT AND WASHOUT AREA, AS SHOWN ON PLAN, TO PREVENT CONCRETE WASTE FROM ENTERING THE CITY RIGHT-OF-WAY.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE 1-800-242-8511 TOLL FREE

TDD(FOR THE HEARING IMPAIRED)(800)542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

OIL AND GREASE CONTROL
PARKING LOT INLETS SHALL HAVE "CATCH-ALL" INLET FILTER INSTALLED AFTER BEING SET. HRI PILLOW SHALL BE INSTALLED FOLLOWING PAVING.

ROYSTER CORNERS DEVELOPMENT – LOT 2

UTILITY AND FIRE LANE PLAN

DATED: AUGUST 25, 2017

C-2.1

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QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A – McFarland, WI 53558 (608) 838-7750 \RD-07-12\RD07BASE.DWG

PINNEY STREET

ROYSTER OAKS DRIVE

DEMPSEY ROAD

COTTAGE GROVE ROAD

NEW LOT

PLAT LOT 1

CSM LOT 1

CSM LOT 2

CSM LOT 3

PROPOSED BUILDING FIRST FLOOR=867.50

SAS #11 (CITY) S INV=855.47 (8") SE INV=855.74 (8")

(8") INV=856.50

24" RCP STUB @ 0.50% INV=855.71 (FIELD VERIFY)

SAS #10 (CITY) S INV=854.88(8")

S-30A (CITY) (REPLACE CASTING W/ DRIVEWAY CASTING)

HYDRANT (CITY)

S-32 (CITY) S INV=856.75

GENERAL UTILITY EASEMENT

24" RCP STUB INV=856.85 (FIELD VERIFY)

HYDRANT (CITY)

STMH #4 (4' DIA. RCP) W/ NEENAH R-1550 RIM=861.65 E INV=856.71 S INV=855.81 N INV=855.71

8" PVC SANITARY STUB INV=855.05 (FIELD VERIFY)

WATER UTILITY EASEMENT

INLET #4.1 (2'X3' CONC.) W/ NEENAH R-3067 TC=861.80; INV=856.78

24"-12" HDPE STORM SEWER @ 0.3%

STMH #1 (4' DIA. RCP) W/ NEENAH R-3067 RIM=863.40; S INV=857.70 E INV=856.95 N INV=856.85

65'-24" HDPE STORM SEWER @ 0.3%

10'-15" HDPE STORM @ 0.3% INV=857.63 (PLUG END)

CB #2 (5' DIA. RCP) W/ NEENAH R-3067 TC=863.00 E INV=859.15 S INV=857.25 W INV=857.15

71'-12" HDPE STORM @ 1.0% INV=858.44 (PLUG END)

158'-24" HDPE STORM SEWER @ 0.3%

20' WIDE STORM SEWER EASEMENT

115'-24" HDPE STORM SEWER @ 1.4%

20' FIRE LANE

ASPHALT PARKING LOT

10'-12" HDPE STORM SEWER @ 5.0%

65'-12" HDPE STORM SEWER @ 5.0%

52'-12" HDPE STORM SEWER @ 1.0%

STMH #6 (4' DIA. RCP) W/ NEENAH R-1540 RIM=863.50 E INV=858.58

INLET #5.1 (2'X3' CONC.) TC=864.20 E INV=859.02 W INV=858.92

INLET #5.2 (2'X3' CONC.) TC=865.15 INV=862.27

INLET #3.1 (2'X3' CONC.) W/ NEENAH R-3067 TC=865.15 INV=862.20

74'-12" HDPE STORM @ 2.0%

20' WIDE STORM SEWER EASEMENT

CB #5 (4' DIA. RCP) W/ NEENAH R-3067 TC=863.95 E INV=858.42 W INV=858.42 S INV=857.92 N INV=857.42

195'-18" HDPE STORM SEWER @ 0.4%

20' WATER UTILITY EASEMENT

ASPHALT PARKING LOT

CB #3 (5' DIA. RCP) W/ NEENAH R-3067 TC=864.15 NW INV=860.72 S INV=858.72 E INV=858.72 N INV=856.77

73'-12" HDPE STORM @ 1.3%

INLET #3.2 (2'X3' CONC.) W/ NEENAH R-3067 TC=862.65 INV=859.67

SAS #8 RIM=863.40 IE=854.23

8" PVC SANITARY SEWER

TEMP CB #11.3 (2' DIA. RCP) W/ IN-BELL GRATE RIM=864.00; S INV=862.01

14'-12" HDPE STORM SEWER @ 1.0%

CB #7 (4' DIA. RCP) W/ NEENAH R-3067 TC=864.75 SE INV=860.65 W INV=860.40 NE INV=860.14

INLET #8 (2'X3' CONC.) W/ NEENAH R-3067 TC=865.35 S INV=861.31 E INV=861.21

CONCRETE WASHOUT AREA

ASPHALT DRIVE

CONCRETE SIDEWALK

ASPHALT PARKING LOT

190'-12" HDPE STORM SEWER @ 2.1%

TRASH

52'-12" HDPE STORM SEWER @ 2.5%

INLET #11.2 (2'X3' CONC.) W/ NEENAH R-3067 TC=865.30 N INV=861.87 S INV=861.77

54'-15" HDPE STORM SEWER @ 1.5%

35'-12" HDPE STORM SEWER @ 1.0%

26' FIRE LANE

120'-8" PVC SANITARY SEWER @ 0.40%

SAN MH #2 RIM=865.45 W INV=856.66 S INV=856.76

24'-15" RCP STORM SEWER @ 0.5%

15" RCP STUB @ 0.5% INV=860.10 (FIELD VERIFY)

50'-15" HDPE STORM SEWER @ 0.9% IE=861.76 (PLUG END)

STMH #7.1 (4' DIA. RCP) W/ NEENAH R-1540 RIM=865.50 S INV=861.10 N INV=861.00

SAN MH #1 RIM=865.25 N INV=856.08 SW&E INV=856.18

48'-8" PVC SANITARY SEWER @ 0.50% INV=856.42

STORM SEWER EASEMENT

EX. 18" RCP STORM SEWER

S-17 W/ INLET

STMH #11 (4' DIA. RCP) W/ NEENAH R-1540 RIM=863.50 N INV=860.47 W INV=860.22

16'-12" HDPE STORM SEWER @ 1.0% (CONNECT TO ROOF PLUMBING) INV=861.26

PUMP SYSTEM (DESIGN BY OTHERS)

69'-8" HDPE STORM SEWER @ 0.3%

60'-8" HDPE STORM SEWER @ 0.3%

CB #3.6 (2' DIA. RCP) W/ DROP-IN GRATE RIM=866.75 INV=863.53

58'-8" PVC SANITARY SEWER @ 0.50% INV=857.05

CB #3.5 (2' DIA. RCP) W/ DROP-IN GRATE RIM=866.75 W INV=863.32 E INV=863.22

STMH #3.4 (4' DIA. RCP) W/ NEENAH R-1540 RIM=867.00 W INV=863.04 S INV=862.81 N INV=862.71

17'-12" HDPE STORM SEWER @ 1.2%

CONNECT TO ROOF PLUMBING INV=863.01

CONCRETE SIDEWALK

RETAINING WALL (DESIGN BY OTHERS)

TRASH

YARD DRAIN (SEE PLUMBING DRAWINGS)

10" ADS STORM SEWER @ 0.5%

CB #9 (3' DIA. RCP) W/ NEENAH R-2500 RIM=856.25 INV=853.25

ELECTRIC BOX

TRANSFORMER

SAS #9 RIM=864.90 IE=855.06

6" IE=855.58

15" RCP STUB @ 0.5% NE INV=860.53 (FIELD VERIFY)

S-19 W/ INLET

VAULT

78'-8" C-900 WATER SERVICE W/ 8" VALVE (PLUMBER TO VERIFY SIZE)

VAULT

RELOCATED HYDRANT

EX. HYDRANT (TO BE RELOCATED)

RELOCATED HYDRANT

EX. HYDRANT (TO BE RELOCATED)

EX. HYDRANT

EX. HYDRANT

EX. HYDRANT

20' FIRE LANE

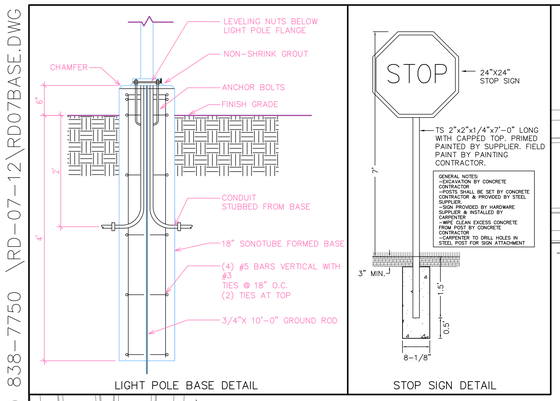
26' FIRE LANE

12"W

10"W

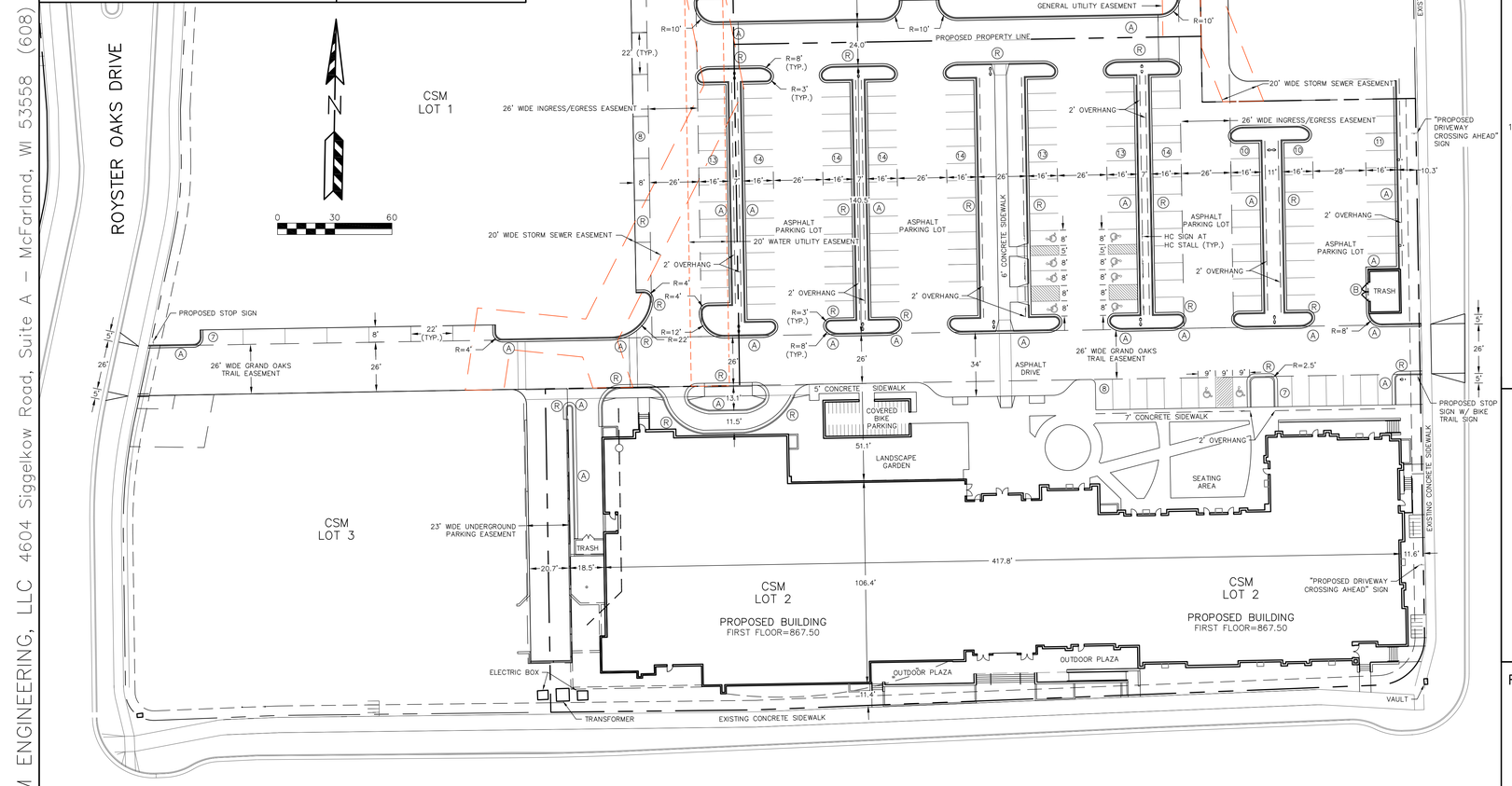
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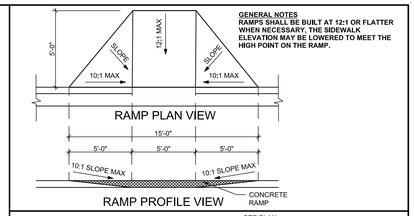
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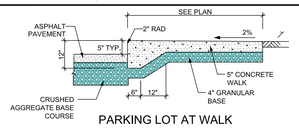


LIGHT POLE BASE DETAIL

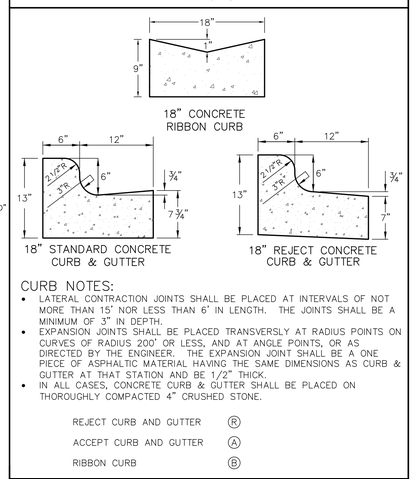
STOP SIGN DETAIL







PARKING LOT AT WALK



CURB NOTES:

- LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH.
- EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE OF ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK.
- IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED 4" CRUSHED STONE.

REJECT CURB AND GUTTER (R)

ACCEPT CURB AND GUTTER (A)

RIBBON CURB (B)



HANDICAP ACCESSIBLE SIGN DETAIL

PARKING LOT SITE INFORMATION BLOCK

Site Address 516 Cottage Grove Road
Site acreage (total) 3.69

Number of building stories (above grade) 4
Building height 52'
DSPS type of construction (new structures or additions):
(A Basement & First Floor, VA 2nd – 4th
Total square footage of building 191,504 SF (includ. basement)
Total square footage of garage N/A

Use of property Mixed Use
Gross square feet of office N/A
Gross square feet of retail area N/A
Number of employees in warehouse N/A
Number of employees in production N/A
Capacity of restaurant/place of assembly N/A

Number of bicycle stalls shown 52

Number of Parking stalls:

	SHOWN
Small Car	0
Large Car	226
Accessible	10
Total	236

Number of trees shown (See Landscape Plan)

ROYSTER CORNERS DEVELOPMENT – LOT 2

SITE PLAN

DATED: AUGUST 25, 2017

C–2.2

QUAM ENGINEERING, LLC
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DESIGN CRITERIA

1. CODES:
   INTERNATIONAL BUILDING CODE (IBC) 2015
   AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
   AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   ALLOWABLE STRENGTH DESIGN (ASD)(AISC 360-10) FOURTEENTH EDITION, 2010
   AMERICAN WELDING SOCIETY D1.1

2. DESIGN LOADS:

RISK CATEGORY	II
WIND - PARAMETERS	
BASIC WIND SPEED	115 MPH
EXPOSURE CLASS	C
WIND - ELEMENTS AND COMPONENTS PER APPLICABLE BUILDING CODE	
LIVE LOADS	
PUBLIC SPACE	100 PSF UNREDUCIBLE

3. NET ALLOWABLE SOIL BEARING PRESSURES
   PIER FOOTINGS 2500 PSF

4. MINIMUM FROST PROTECTION DEPTH FROM ADJACENT GRADE:
   EXTERIOR FOOTINGS IN UNHEATED AREA -5'-0"

5. SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTHS (f'c)
   PIER FOOTINGS 4000 PSI
   SLABS ON GRADE 4000 PSI
   TYPICAL - UNLESS NOTED OTHERWISE 4000 PSI

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

DEFORMED BARS	ASTM A615, GRADE 60	Fy = 60 KSI
WELDED WIRE REINFORCING	ASTM A185	Fy = 65 KSI
EPOXY-COATED REINFORCING BARS	ASTM A775	Fy = 60 KSI

7. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SECTIONS	ASTM A992	Fy = 50 KSI
OTHER ROLLED SECTIONS	ASTM A36	Fy = 36 KSI
SQUARE AND RECTANGULAR HSS	ASTM A500, GR B	Fy = 46 KSI
CAP AND BASE PLATES	ASTM A36	Fy = 36 KSI
CONNECTION MATERIAL	ASTM A36	Fy = 36 KSI
STIFFENER PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325	120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED WELDED STEEL STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

GENERAL NOTES

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER 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 WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER 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. 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 THAT IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.

3. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.

4. DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.

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

6. DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

7. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING CONDITIONS, FIELD VERIFY EXISTING DIMENSIONS, MEMBER SIZES AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

8. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS NOTED OTHERWISE.
   B. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   C. FLOOR, WALL AND ROOF FINISHES.
   D. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
   E. FIRE PROTECTION REQUIREMENTS.

9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES OR CURBS AND ANCHOR BOLTS FOR MOTOR MOUNTS.

10. 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 TYPES OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA SHALL BE KEPT TO A MINIMUM.

11. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, AND OTHERS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR.

12. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, AND OTHERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. REVIEW BY THE ARCHITECT SHALL NOT BEGIN WITHOUT THE PRIOR COORDINATION AND REVIEW BY THE GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT. NOTATIONS MADE BY THE ARCHITECT ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

13. OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES RESULTING FROM CHOOSING AN OPTION AND SHALL COORDINATE ALL DETAILS. THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE CONTRACTOR.

14. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.

15. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.

16. ELEVATIONS ARE BASED ON THE EXISTING FIRST FLOOR ELEVATION OF (+ 0' - 0").

17. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

FOUNDATIONS/SLAB-ON-GRADE

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

2. FOUNDATION DESIGN BASED ON PRESUMED SOIL BEARING PRESSURES.

3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SHORING AND/OR SHEETING.

4. PROVIDE SAW CUT CONTROL JOINTS IN ALL SLABS-ON-GRADE. LOCATE JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS NOTED OTHERWISE. CONTROL JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 TO 1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS FORMED IN SLAB ON GRADE.

SLAB ON GRADE THICKNESS	MAX JOINT SPACING
4"	12'-0"
5"	15'-0"
6"	18'-0"
8"	24'-0"
10"	30'-0"
12"	36'-0"

5. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE.

6. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING, AND SHORING REQUIRED TO SAFELY RETAIN EARTH BANKS AS REQUIRED.

7. ALL PIERS SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL AS DIRECTED BY THE SOILS TESTING FIRM. EXCAVATIONS FOR PIERS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING FIRM PRIOR TO PLACING CONCRETE. CONTRACTOR SHALL NOTIFY SOILS TESTING FIRM WHEN EXCAVATION IS READY FOR INSPECTION. TESTING FIRM IS TO SUBMIT LETTER OF COMPLIANCE TO THE OWNER.

8. BOTTOM OF PIER ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE A SAFE SOIL BEARING PRESSURE IS EXPECTED (REFER TO DESIGN CRITERIA). PIERS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.

9. ALL ABANDONED FOOTINGS, UTILITIES, AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

10. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE, OR SNOW.

11. REINFORCING IN PIERS SHALL BE ACCURATELY PLACED, SPACED, SUPPORTED AND SECURED BEFORE PLACING CONCRETE.

12. ALL UNACCEPTABLE MATERIAL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BELOW ALL PROPOSED SLABS-ON-GRADE AND THE EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED AND THE COMPACTION VERIFIED BY A QUALIFIED INDEPENDENT SOILS TESTING FIRM PRIOR TO PLACING FILL. AREAS EXHIBITING WEAKNESS SHALL BE REMOVED AND REPLACED BY ACCEPTABLE COMPACTED FILL.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 303.1, ACI 306.1, ACI 308.1, ACI 315 AND ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWINGS.

2. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SUCH SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS.

3. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS IS NOT ACCEPTABLE.

4. CORE DRILLING CONCRETE IS NOT PERMITTED UNLESS NOTED OTHERWISE OR APPROVED IN WRITING BY THE ARCHITECT. NOTIFY THE ARCHITECT IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.

5. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.

6. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.

7. PROJECTING CORNERS OF WALLS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

8. ALL SLABS-ON-GRADE, PADS, FILLS AND TOPPINGS SHALL HAVE A MINIMUM OF 6x6 - W1.4xW1.4 WELDED WIRE REINFORCING (WWR) CENTERED IN THE SLAB THICKNESS. LAY WWR MINIMUM 2 PANELS AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON THE DRAWINGS.

9. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT, AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1", REFER TO DETAIL FOR ADDITIONAL REINFORCING.

10. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF PIERS.

11. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.

12. THE DESIGN AND ENGINEERING OF FORM WORK, AS WELL AS ITS CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE, AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORM WORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.

13. MIX - PIER CONC:

COARSE AGGREGATE	100% PASSING 1 1/2" SIEVE
FINE AGGREGATE	100% PASSING 3/8" SIEVE
SLUMP	1" TO 4"
MAXIMUM W/C RATIO	0.5
AIR CONTENT	5% TO 8%

14. MIX - SLAB ON GRADE CONC:

COARSE AGGREGATE	100% PASSING 1 1/2" SIEVE
FINE AGGREGATE	100% PASSING 3/8" SIEVE
SLUMP	4" TO 6"
MAXIMUM W/C RATIO	0.50
AIR CONTENT	5% TO 8%
OTHER REQUIREMENTS	USE WATER REDUCING ADMIXTURE TO ACHIEVE SLUMP SPECIFIED

STRUCTURAL STEEL

1. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS.

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

4. ALL STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) DESIGNATION GIVEN UNDER DESIGN CRITERIA HEREIN.

5. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."

6. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL , FOR ARCHITECT'S REVIEW BEFORE FABRICATION.

7. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED UNLESS NOTED OTHERWISE.

8. ALL WELDS SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL (AWS D1.1) AND BE MADE WITH APPROVED ELECTRODES.

9. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).

10. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. 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.

11. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE.

12. 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 STRUCTURAL ENGINEER OF RECORD THROUGH THE ARCHITECT. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

13. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.

14. NON-SHRINK GROUT FOR BASE AND BEARING PLATES SHALL BE PRE-MIXED, NON-METALLIC, NON-CORROSIVE, NON-STAINING PRODUCTS CONTAINING SELECTED SILICA SAND, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER REDUCING AGENTS. MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS SHALL BE 7,000 PSI.

REINFORCING STEEL

1. FOR CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER	
NO. 6 BARS OR LARGER	2 INCHES
NO. 5 BARS OR SMALLER	1 1/2 INCHES
SLABS, WALLS, JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH	
NO. 14 AND NO. 18 BARS	1 1/2 INCHES
NO. 11 BARS OR SMALLER	3/4 INCHES
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH	1 1/2 INCHES

2. DIMENSIONS OF CONCRETE COVER FOR REINFORCEMENT INDICATED ON DRAWINGS ARE TO OUTERMOST REINFORCING BARS. FOR BEAMS OR COLUMNS WITH STIRRUPS OR TIES, CLEAR COVER INDICATED IS TO STIRRUPS OR TIES.

3. BAR SPLICES: SPLICE REINFORCING 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 LENGTHS (IN INCHES) AS FOLLOWS:

	3000 PSI CONCRETE		4000 PSI CONCRETE	
BAR SIZE	OTHER	TOP	OTHER	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	91	118	79	102
#11	101	131	87	114

   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.

4. SUBMIT SHOP DRAWINGS SHOWING REINFORCING STEEL QUANTITIES AND PLACEMENT. REINFORCING STEEL DESIGNATIONS ON SHOP DRAWINGS SHALL BE INCH-POUND SIZES.

5. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "DETAILS AND DETAILING OF REINFORCED CONCRETE" (ACI 315) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.

6. PROVIDE ADEQUATE TIES FOR ALL REINFORCING BARS IN CONCRETE SLABS AND PIERS. REINFORCING BARS TO BE HELD AT CORRECT DISTANCE FROM FORMS BY ADEQUATE CONCRETE BLOCKS, STEEL CHAIRS OR TIES. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION WITH TIES OR WELDS PRIOR TO PLACING CONCRETE.

7. UNLESS NOTED OTHERWISE, SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE.

8. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE.

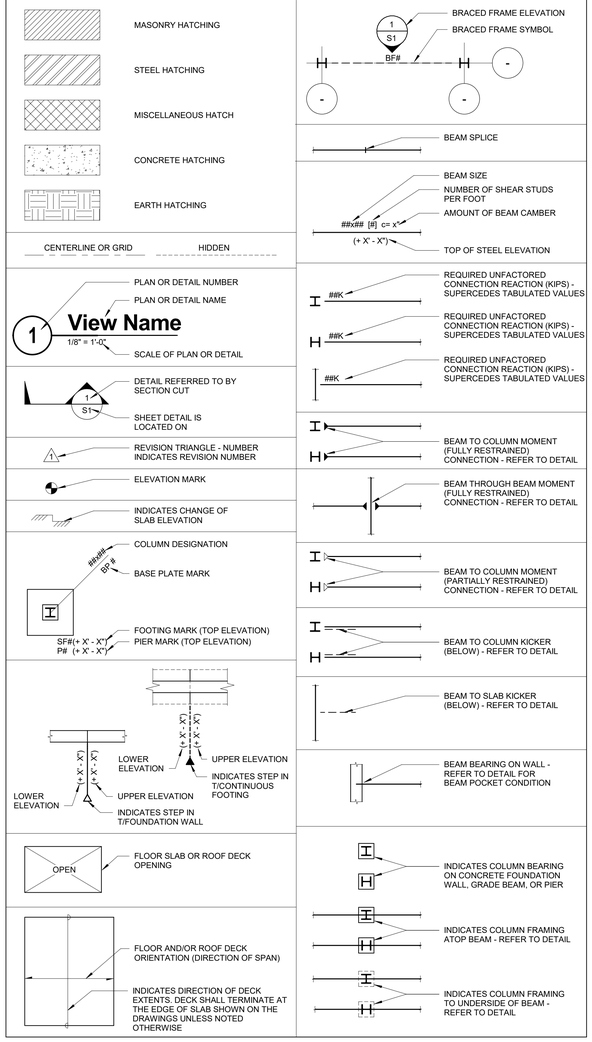
9. DOWELS BETWEEN PIERS AND SLAB SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS NOTED OTHERWISE.

10. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.

STRUCTURAL ABBREVIATIONS LIST

#	NUMBER	KSF	KIPS PER SQUARE FOOT
@	AT	L	LENGTH
°	DEGREES	LB	POUND
Ø	DIAMETER	LF	LINEAR FOOT
AHU	AIR-HANDLING UNIT	LL	LIVE LOAD
APPROX	APPROXIMATE, -LY	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT, -URE, -URAL	LLV	LONG LEG VERTICAL
B.O.	BOTTOM OF	LSH	LONG SIDE HORIZONTAL
bf	BEAM FLANGE WIDTH	LSV	LONG SIDE VERTICAL
BM	BEAM	LONG	LONGITUDINAL
BP	BASE PLATE	ME	MECHANICAL/ELECTRICAL
BRG	BEARING	MAX	MAXIMUM
CFSF	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CJ	CONTROL JOINT	MEZZ	MEZZANINE
CL	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
CONC	CONCRETE	MK	MARK
CONST	CONSTRUCTION	N	NORTH
CONT	CONTINUOUS	N	LENGTH (AS PLATES)
D	DEPTH	NIC	NOT IN CONTRACT
DBL	DOUBLE	NO	NUMBER
DEG	DEGREE	NTS	NOT TO SCALE
DIM	DIMENSION	OC	ON CENTER
DL	DEAD LOAD	OPNG	OPENING
DTL	DETAIL	OPP	OPPOSITE
DWG	DRAWING	PAF	POWER ACTUATED FASTENER
EA	EACH	PC	PRECAST
EF	EACH FACE	PCF	POUNDS PER CUBIC FOOT
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDDED	PVC	POLYVINYL CHLORIDE
EOD	EDGE OF DECK	R	RADIUS
EOS	EDGE OF SLAB	RD	ROOF DRAIN
EQ	EQUAL	REINF	REINFORCING, -MENT, -ED
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EW	EACH WAY	REF	REFERENCE, REFER TO
EXIST, (E)	EXISTING	RTU	ROOF-TOP UNIT
EXP	EXPANSION	SC	TC WITH CLASS A FAYING SURFACE
EXT	EXTERIOR	SCHED	SCHEDULE
f'c	CONCRETE COMPRESSIVE STRENGTH	SIM	SIMILAR
FDN	FOUNDATION	SL	SNOW LOAD
FIN	FINISHED	SP	SPACE(S)
FL	FLOOR	SPEC	SPECIFICATION(S)
FT	FOOT	SPEC'D	SPECIFIED
FTG	FOOTING	SQ	SQUARE
Fy	YIELD STRESS	STD	STANDARD
GA	GAGE OR GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	T.O.	TOP OF
GB	GRADE BEAM	TC	PRE-TENSIONED BOLT
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GYP	GYPSUM	tf	BEAM FLANGE THICKNESS
HDG	HOT-DIPPED GALVANIZED	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HWS	HEADED, WELDED STUD	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JST	JOIST	WP	WORKING POINT
JT	JOINT	WT	WEIGHT
K, KIP	KILOPOUND (1,000 POUNDS)	WWR	WELDED WIRE REINFORCING
KO	KNOCK-OUT	YD	YARD

STRUCTURAL DRAWING SYMBOLS



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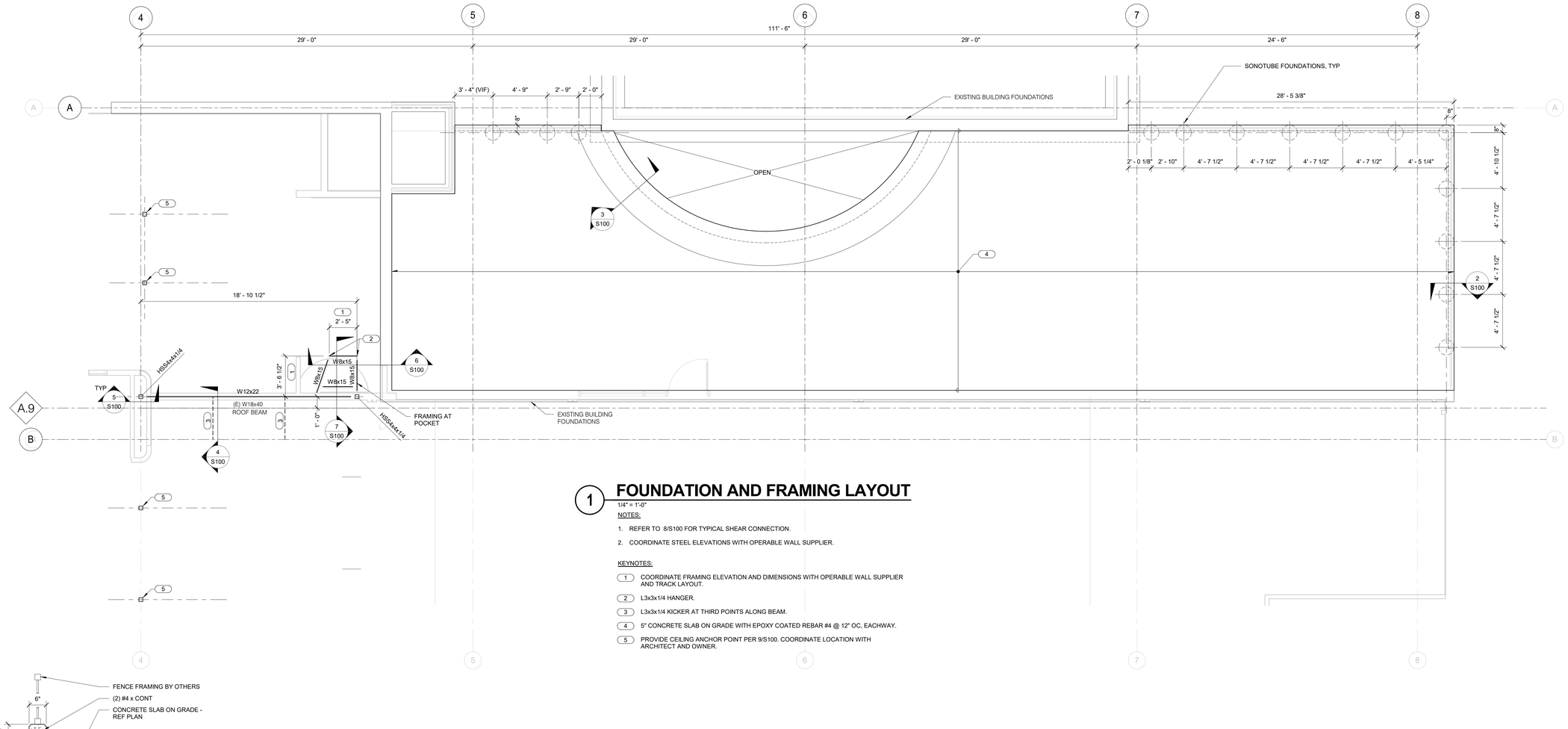
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1 FOUNDATION AND FRAMING LAYOUT

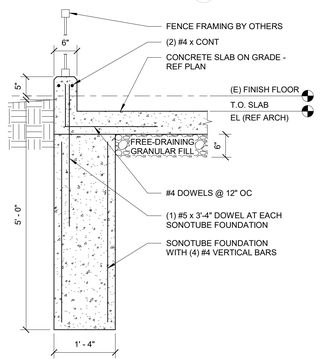
1/4" = 1'-0"

NOTES:

1. REFER TO 8/S100 FOR TYPICAL SHEAR CONNECTION.
2. COORDINATE STEEL ELEVATIONS WITH OPERABLE WALL SUPPLIER.

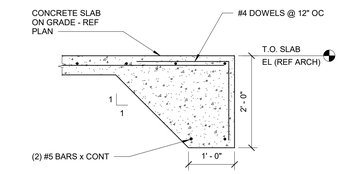
KEYNOTES:

1. COORDINATE FRAMING ELEVATION AND DIMENSIONS WITH OPERABLE WALL SUPPLIER AND TRACK LAYOUT.
2. L3x3x1/4 HANGER.
3. L3x3x1/4 KICKER AT THIRD POINTS ALONG BEAM.
4. 5" CONCRETE SLAB ON GRADE WITH EPOXY COATED REBAR #4 @ 12" OC, EACHWAY.
5. PROVIDE CEILING ANCHOR POINT PER 9/S100. COORDINATE LOCATION WITH ARCHITECT AND OWNER.



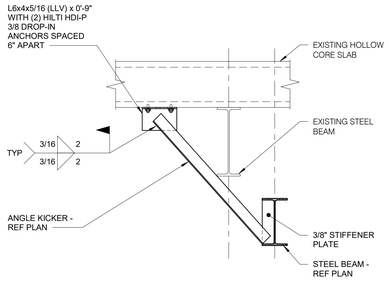
2 FOUNDATION DETAIL

3/4" = 1'-0"



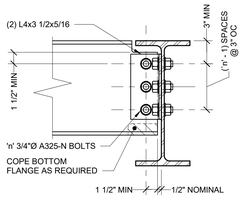
3 THICKENED SLAB EDGE

3/4" = 1'-0"

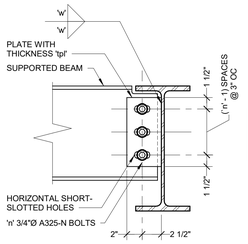


4 KICKER FRAMING DETAIL

3/4" = 1'-0"



DOUBLE ANGLE CONNECTION TABLE	
SUPPORTED BEAM	'n'
W8	2
W12	3



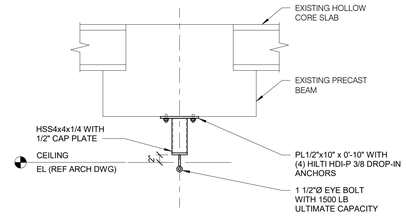
KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tpl'	'n'	'w'
W8	1/4"	2	3/16"
W12	5/16"	3	1/4"

8 TYPICAL SHEAR CONNECTION

1 1/2" = 1'-0"

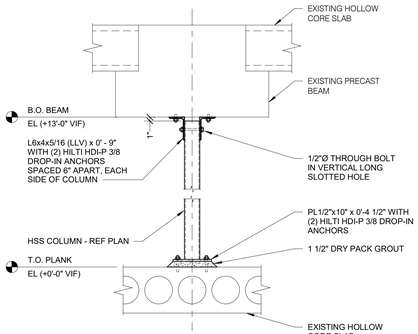
NOTES:

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.



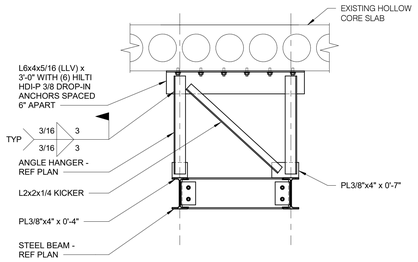
9 ANCHOR FRAMING DETAIL

3/4" = 1'-0"



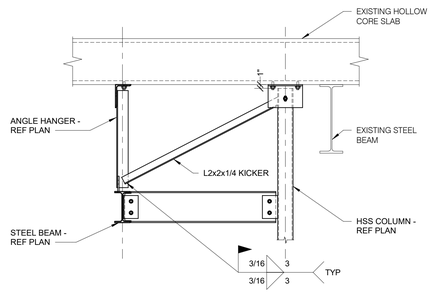
5 COLUMN FRAMING DETAIL

3/4" = 1'-0"



6 FRAMING DETAIL

3/4" = 1'-0"



7 FRAMING DETAIL

3/4" = 1'-0"

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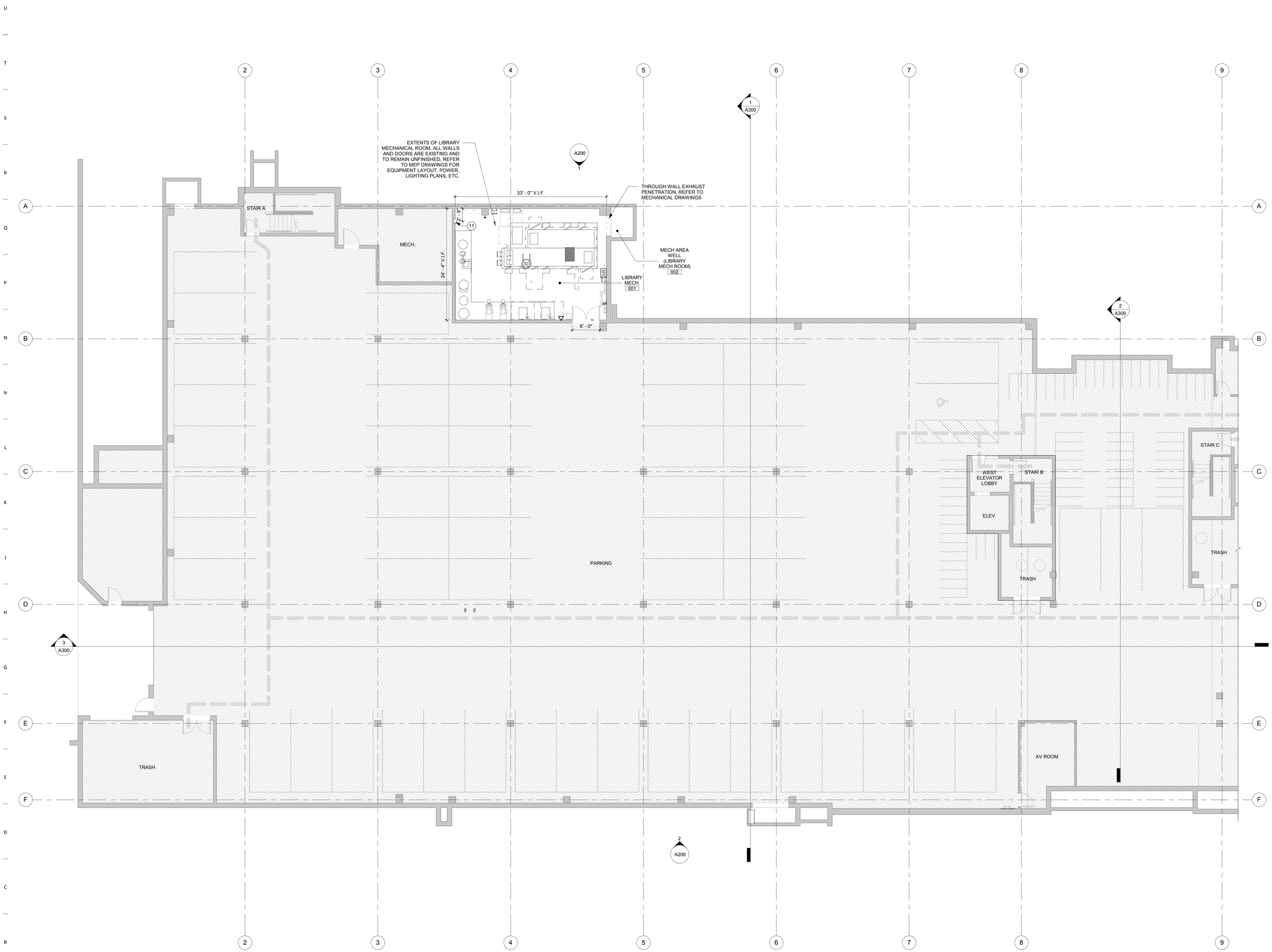
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S100

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REFERENCE SCALE IN INCHES
0 1 2 3



1 LEVEL B FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES.
6. PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
7. ALL WALLS WITH SOUND ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM AND AT ALL WALL PENETRATIONS.
8. COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING HOLLOWCORE SLAB AND CONCRETE BEAM LOCATIONS.
9. ALL NEW INTERIOR WALLS TO BE TYPE (A1.D.0) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. REFER TO SHEET A602 FOR ALL INTERIOR GLAZING ELEVATIONS.
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL U.N.O.
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK.

BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.

FLOOR PLAN KEYNOTES

#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXISTING COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED.
3	PROVIDE INFILL METAL FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL.
4	FILL EXTERIOR WALL CAVITY W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL, QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE. REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR, REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING, REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET, REFER TO PLUMBING DRAWINGS
17	5'-0"L TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET, FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. RFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.

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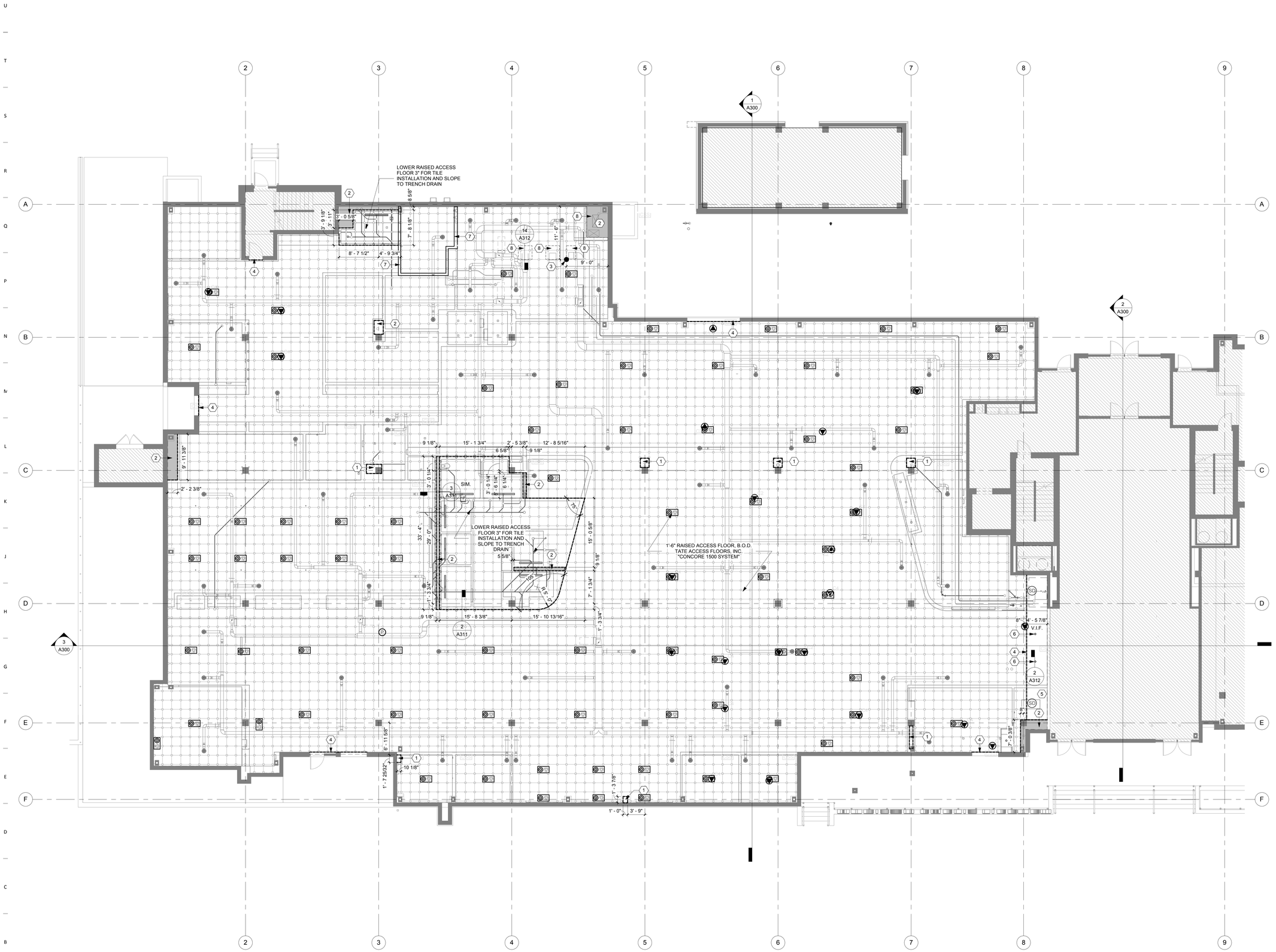
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Sheet Name
FLOOR PLAN LOWER LEVEL

Sheet Number
A100



1 LEVEL 1 RAISED ACCESS FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING ARCHITECTURAL JOIST LOCATION AND THE STRUCTURAL ENGINEER.
6. REFER TO FINISH PLANS, SCHEDULE AND NARRATIVE FOR ADDITIONAL INFORMATION.
7. ALL WALLS TO BE CONSTRUCTED ON TOP OF ACCESS FLOORING UNLESS IDENTIFIED OTHERWISE.
8. PROVIDE TRANSITIONS AND ADDITIONAL PEDESTALS/ SUPPORT AS REQUIRED BETWEEN DIFFERENT RAISED ACCESS FLOORING HEIGHTS.
9. ALL TOILETS ARE TO BE WALL HUNG ON CARRIERS. RAISED ACCESS FLOOR TO BE DESIGNED TO ACCOMMODATE REQUIRED LOADING AT TOILET LOCATIONS.
10. MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP+T DRAWINGS.

DIAGONAL HATCH AREAS NOT WITHIN SCOPE OF WORK.

RAISED ACCESS FLOOR...

#	NOTE
1	EXISTING PLUMBING STACK LOCATION, V.I.F.. INSTALL ACCESS FLOORING TIGHT TO STRUCTURE AND PIPING.
2	MEP CHASE IDENTIFIED IN GREY. NO ACCESS FLOORING IN THIS LOCATION.
3	RAISED ACCESS FLOORING BASE POINT
4	EXTENT OF RAISED ACCESS FLOORING
5	EXISTING CONCRETE SLAB AT TOP OF RAISED ACCESS FLOOR LEVEL
6	RFID GATE, CORE DRILL THROUGH CONCRETE STRUCTURE TO PARKING DECK BELOW. REFER TO MEP DRAWINGS FOR POWER AND DATA.
7	2HR RATED WALL TO EXTEND FROM TOP OF HOLLOWCORE CONCRETE TO BOTTOM OF STRUCTURAL DECK. ACCESS FLOOR TO BUTT INTO EITHER SIDE OF WALL.
8	2HR RATED HOLLOWCORE FLOOR PENETRATION. REFER TO DETAIL 14/A312 FOR INFILL DETAIL.

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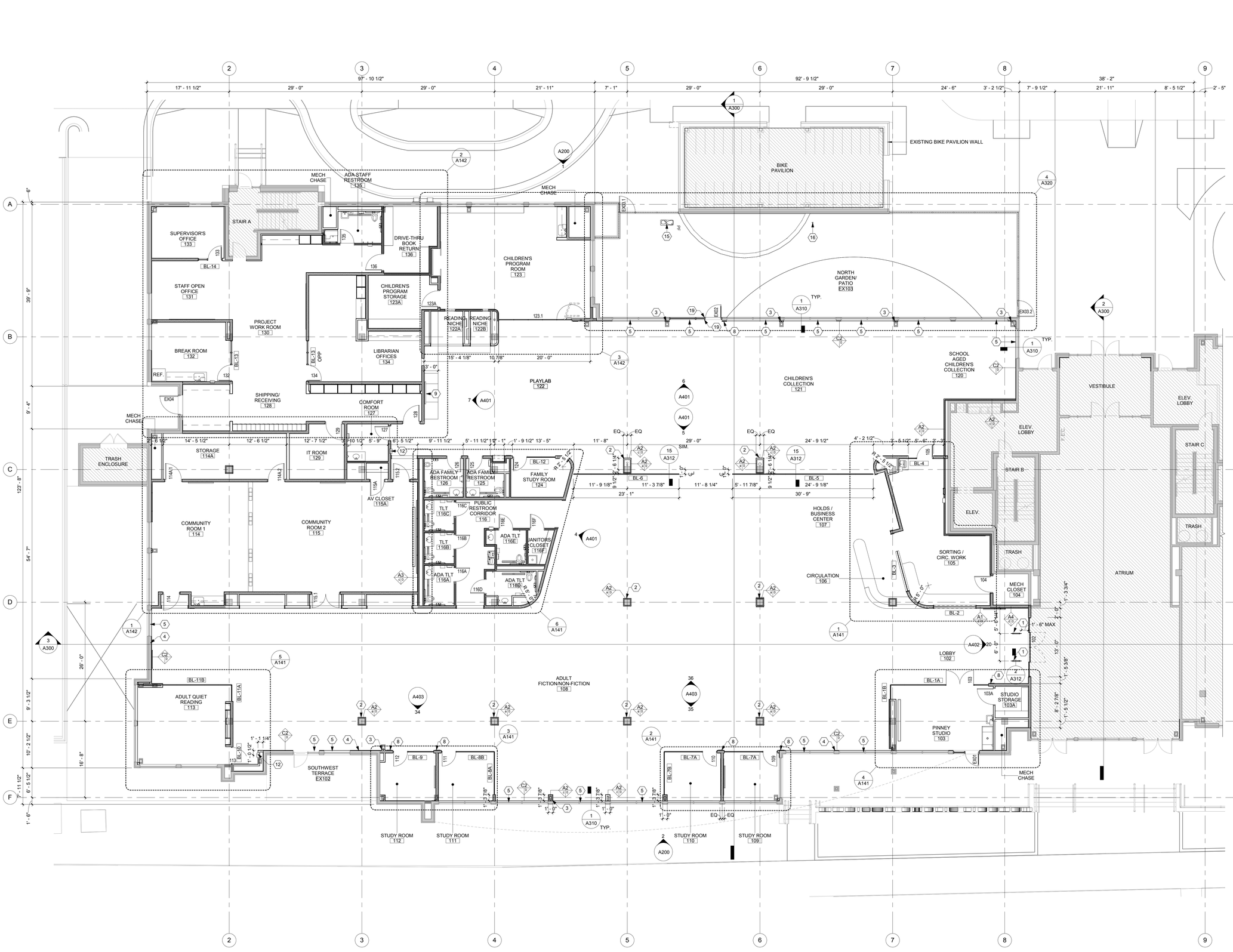
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Sheet Issue Date
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Sheet Name
RAISED ACCESS FLOOR PLAN LEVEL 1

Sheet Number
A101.1



2 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
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5. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES.
6. PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
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8. COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING HOLLOWCORE SLAB AND CONCRETE BEAM LOCATIONS.
9. ALL NEW INTERIOR WALLS TO BE TYPE (A1.D.0) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. REFER TO SHEET A602 FOR ALL INTERIOR GLAZING ELEVATIONS.
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL U.N.O.
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK.

BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.

FLOOR PLAN KEYNOTES

#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXISTING COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED.
3	PROVIDE INFILL METAL FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL.
4	FILL EXTERIOR WALL CAVITY W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL, QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE, REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR, REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING, REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET, REFER TO PLUMBING DRAWINGS
17	5'-0"L TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET, FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. RFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.

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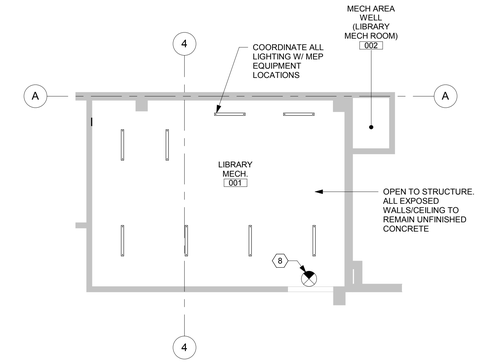
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Sheet Name
FLOOR PLAN LEVEL 1

Sheet Number
A101



1 LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"



2 BASEMENT MECHANICAL REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED U.N.O.
2. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE.
3. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACP UNLESS NOTED OTHERWISE.
4. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
5. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
7. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
8. ALL CEILING MECHANICAL, ELECTRICAL AND FIRE PROTECTION DEVICES TO BE PAINTED BLACK IN WOOD CEILING.
9. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.

DIAGNAL HATCH AREAS NOT WITHIN SCOPE OF WORK.

CEILING LEGEND

BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.

- LINEAR FIXTURE
- LINEAR PENDANT
- RECESSED FIXTURE
- RECESSED CAN
- DOWN LIGHT PENDANT
- SPRINKLER
- VACANCY SENSOR
- CEILING MOUNT CAMERA
- SPEAKER
- WIRELESS ACCESS POINT
- MICROPHONE
- FIRE ALARM NOTIFICATION
- PROJECTOR
- HVAC RETURN DIFFUSER
- HVAC SUPPLY DIFFUSER
- HVAC SLOT DIFFUSER
- CEILING MOUNTED MONITORS

RCP KEYNOTES

#	NOTE
1	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS
2	GYP. BOARD SOFFIT, EXTEND VERTICAL WALL 6" MIN ABOVE ADJACENT CEILING
3	CEILING MOUNTED OPERABLE ROOM PARTITION
4	NO CEILING IN THIS ROOM. OPEN TO STRUCTURE.
5	CEILING MOUNTED EYEBOLT, CONNECT TO STRUCTURE. REFER TO DETAIL 12/A311 AND STRUCTURAL DRAWINGS
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	CEILING MOUNTED EXIT SIGN
8	WALL MOUNTED EXIT SIGN
10	LWC-1 CEILING, REFER TO 5/A151 FOR PATTERN START LOCATION AND DETAILS
11	CEILING MOUNTED PATRON COUNTING, OFCI. REFER TO TECH DRAWINGS FOR ADDITIONAL INFORMATION
12	RECESSED CEILING TRACK FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT INFORMATION.
13	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS

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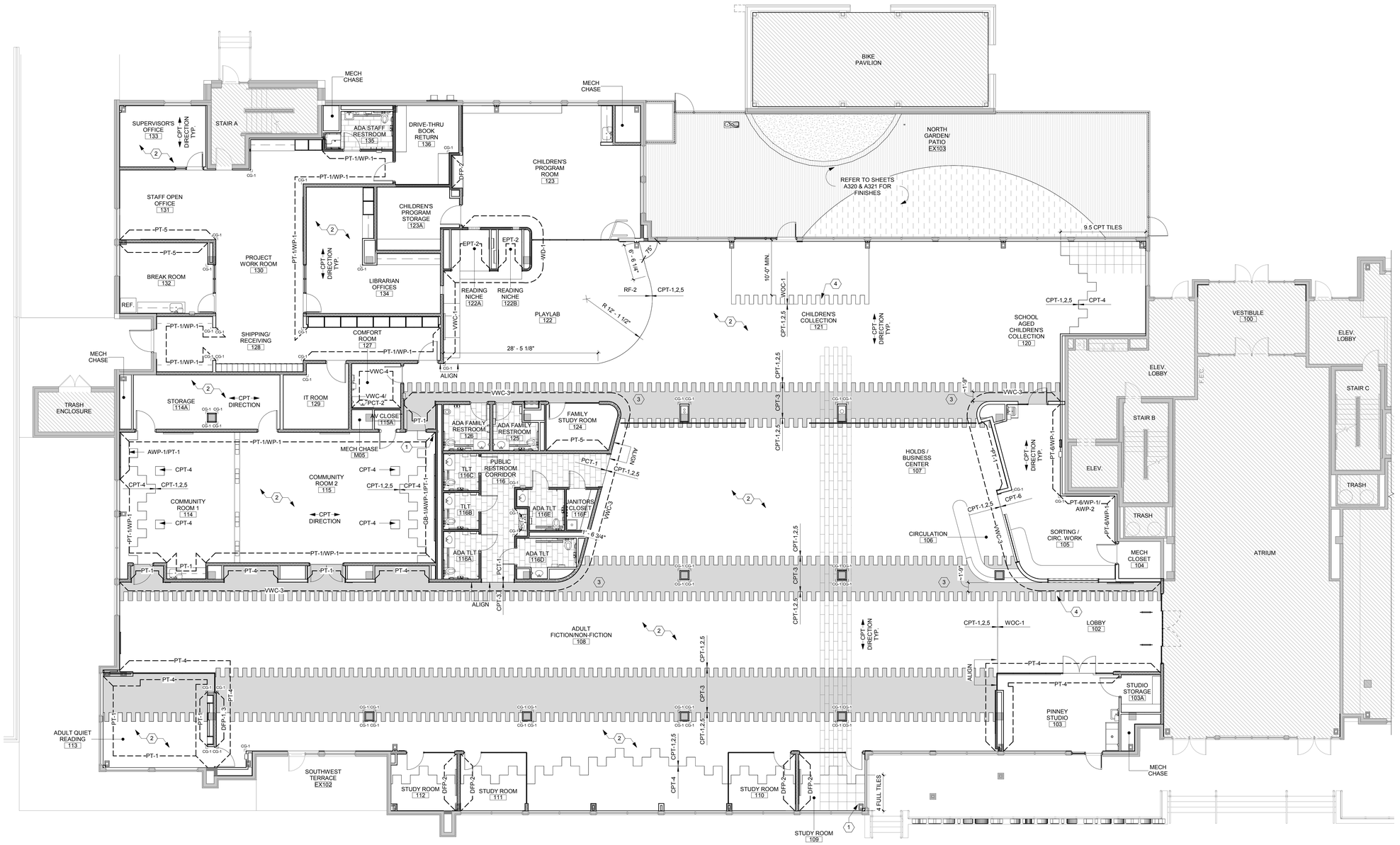
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Sheet Name
REFLECTED CEILING PLAN LEVEL 1

Sheet Number
A121



1 LEVEL 1 FINISH FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL WALLS TO BE FINISHED TO A STANDARD LEVEL 4 WALL FINISH U.N.O.
2. NO FINISH WORK TO OCCUR ON LOWER LEVEL.
3. REFER TO SHEET A600 FOR INTERIOR FINISH SPECIFICATONS AND FLOOR TRANSITION DETAILS.
4. ALL FLOORING MATERIAL TRANSITIONS, TERMINATION AND SEAM LOCATIONS ARE TO BE CENTERED UNDER DOOR LEAFS IN CLOSED POSITION U.N.O.
5. EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS U.N.O.
6. PROVIDE FLOORING TRANSISTION STRIPS AT FLOOR MATERIAL CHANGES. COORDINATE FLOORING TRANSITION MATERIAL, PROFILE, AND COLOR WITH DESIGNER PRIOR TO INSTALLATION.
7. POWER AND DATA LOCATIONS ARE TO BE COORDINATED IN THE FIELD WITH FINAL FURNISHING PLANS PRIOR TO INSTALLATION OF BOXES, FITTINGS, AND RACEWAYS.
8. START FULL FLOOR & WALL TILES AS SHOWN
9. WHERE MULTIPLE MATERIALS INDICATED ON WALL REFER TO INTERIOR ELEVATIONS FOR EXTENTS OF EACH MATERIAL FINSIH. NOTIFY ARCHITECT OF ANY DISCREPANCY.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK

FINISH FLOOR PLAN KEYNOTES	
#	NOTE
1	START POINT FOR CARPET INSTALLATION
2	CARPET PATTERN TO BE RANDOM COMBINATION OF CPT-1(50%), CPT-2(25%), AND CPT-5(25%)
3	CUT CARPET TILES AS NECESSARY AT THIS LOCATION TO ALLOW PATTERN TO ALIGN W/ CEILING ABOVE
4	CUT WALK-OFF CARPET TO BLEND INTO ADJACENT FIELD CARPET PATTERN AS INDICATED.

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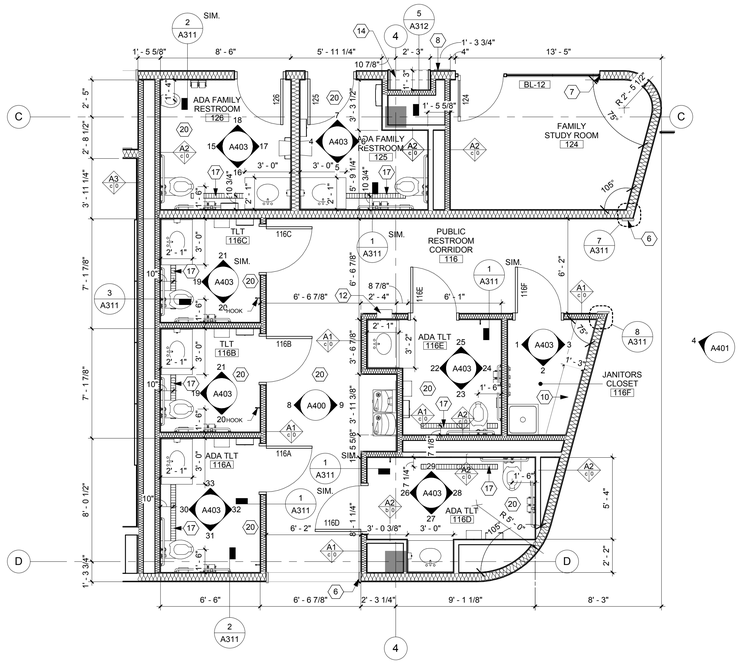
Revision Date

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17609000

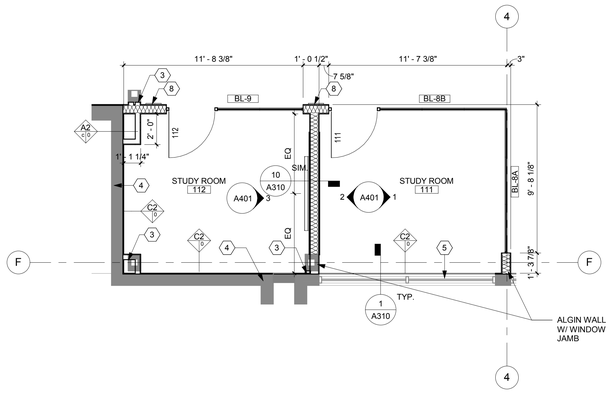
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Sheet Name
FINISH FLOOR PLAN LEVEL 1

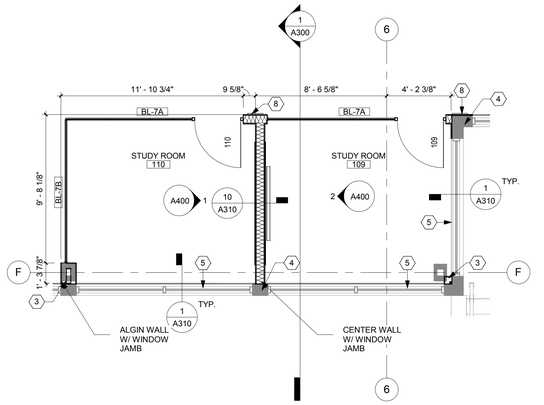
Sheet Number
A131



6 ENLARGED PUBLIC RESTROOMS, FAMILY RESTROOM, NEW MOMS ROOM AND FAMILY ROOM
1/4" = 1'-0"



3 ENLARGED STUDY ROOM 111 & 112
1/4" = 1'-0"



2 ENLARGED STUDY ROOM 109 & 110
1/4" = 1'-0"

5 ENLARGED QUIET READING
1/4" = 1'-0"

4 ENLARGED CREATOR SPACE
1/4" = 1'-0"

1 ENLARGED FRONT OF HOUSE STAFF SPACE
1/4" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES.
6. PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
7. ALL WALLS WITH SOUND ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM AND AT ALL WALL PENETRATIONS.
8. COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING HOLLOWCORE SLAB AND CONCRETE BEAM LOCATIONS.
9. ALL NEW INTERIOR WALLS TO BE TYPE (A1.D.0) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. REFER TO SHEET A602 FOR ALL INTERIOR GLAZING ELEVATIONS.
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL U.N.O.
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK.

BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.

FLOOR PLAN KEYNOTES

#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXISTING COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED.
3	PROVIDE INFILL METAL FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL.
4	FILL EXTERIOR WALL CAVITY W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL, QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE, REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR, REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING, REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET, REFER TO PLUMBING DRAWINGS
17	5'-0"L TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET, FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. RFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.

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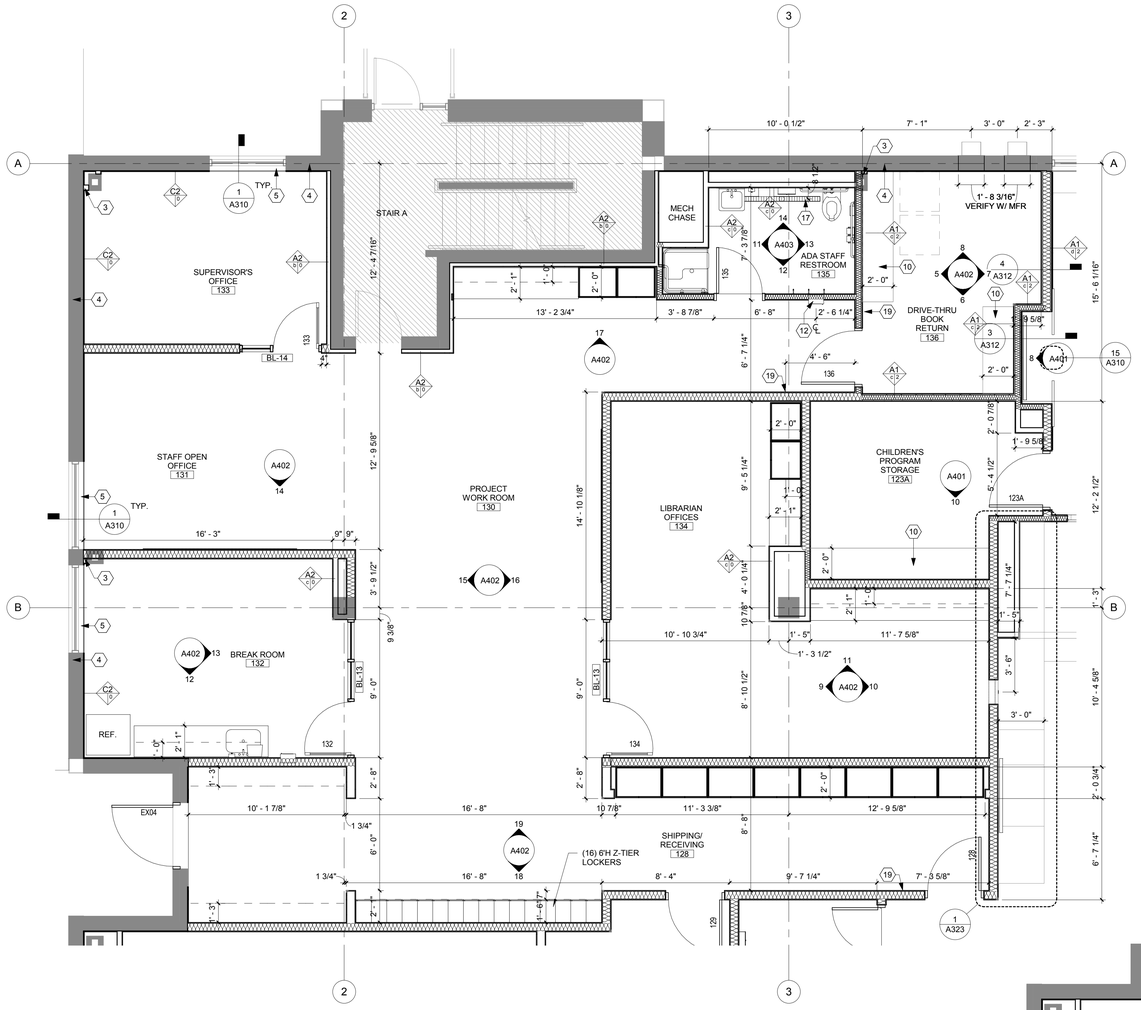
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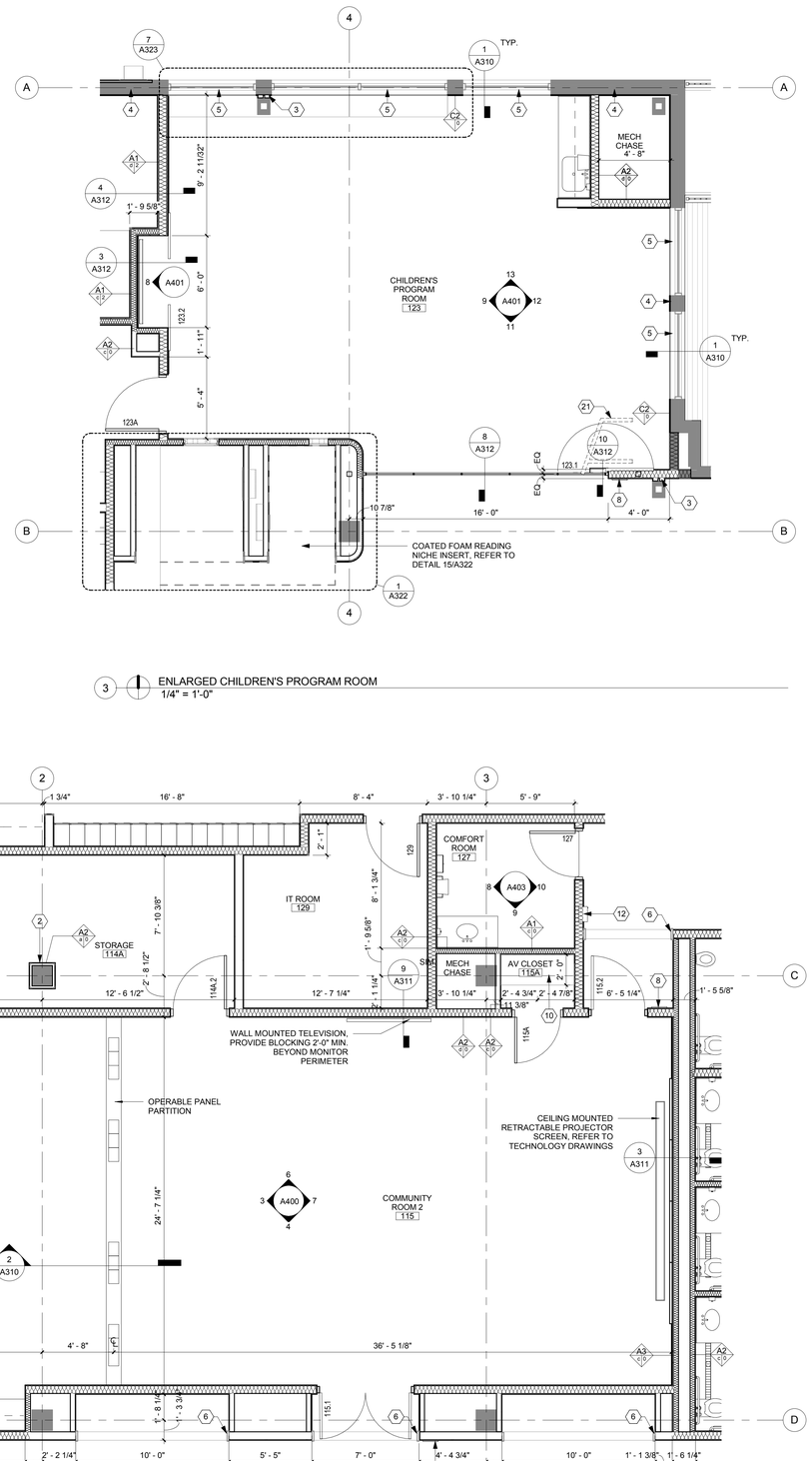
Sheet Issue Date
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Sheet Name
ENLARGED FLOOR PLANS

Sheet Number
A141



2 ENLARGED BACK OF HOUSE STAFF SPACES
1/4" = 1'-0"



3 ENLARGED CHILDREN'S PROGRAM ROOM
1/4" = 1'-0"

1 ENLARGED COMMUNITY ROOM
1/4" = 1'-0"

GENERAL NOTES

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5. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES.
6. PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
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9. ALL NEW INTERIOR WALLS TO BE TYPE (A1.D.0) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. REFER TO SHEET A602 FOR ALL INTERIOR GLAZING ELEVATIONS.
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL U.N.O.
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

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FLOOR PLAN KEYNOTES

#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXISTING COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED.
3	PROVIDE INFILL METAL FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL.
4	FILL EXTERIOR WALL CAVITY W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL, QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE, REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR, REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING, REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET, REFER TO PLUMBING DRAWINGS
17	5'-0"L TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET, FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. RFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.

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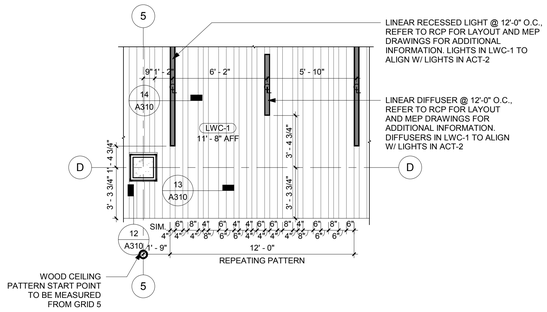
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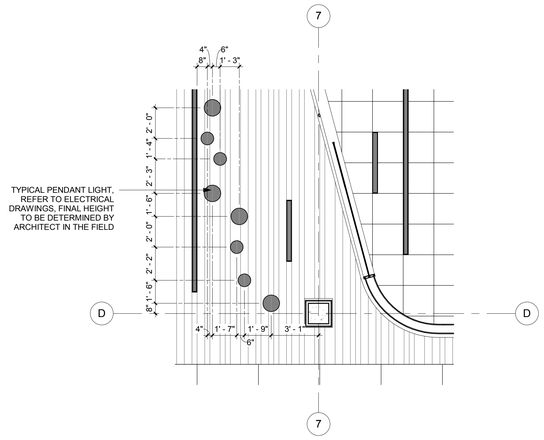
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ENLARGED FLOOR PLANS

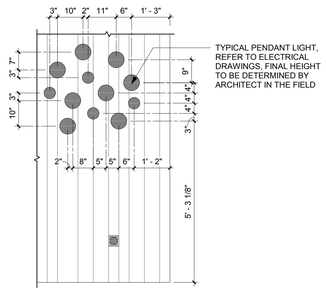
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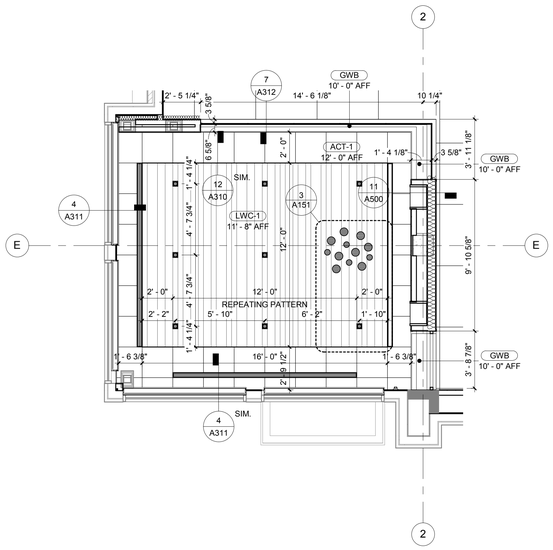
5 ENLARGED WOOD CORE REFLECTED CEILING PLAN
1/4" = 1'-0"



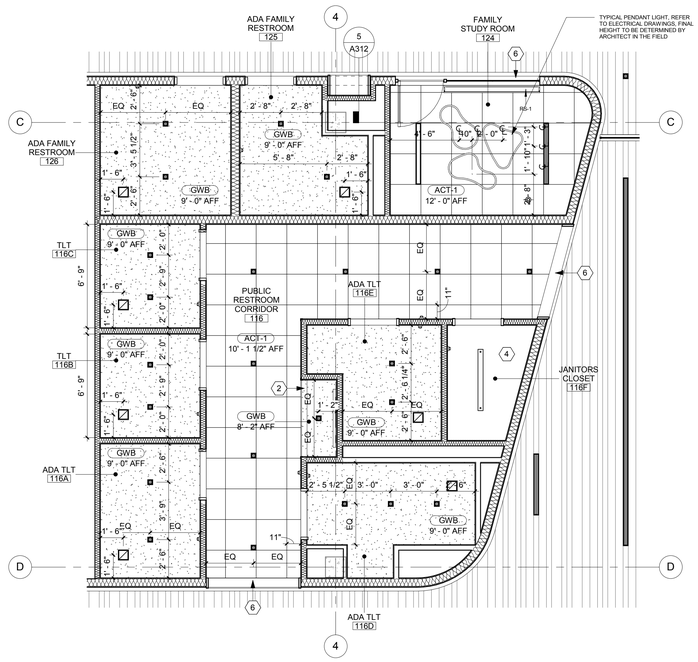
4 ENLARGED CIRCULATION DESK REFLECTED CEILING PLAN
1/4" = 1'-0"



3 ENLARGED QUIET READING LIGHT GROUPING
1/2" = 1'-0"



2 ENLARGED QUIET READING WOOD CLOUD REFLECTED CEILING PLAN
1/4" = 1'-0"



1 ENLARGED RESTROOM CORE REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

1. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED U.N.O.
2. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE.
3. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACP UNLESS NOTED OTHERWISE.
4. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
5. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
7. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
8. ALL CEILING MECHANICAL, ELECTRICAL AND FIRE PROTECTION DEVICES TO BE PAINTED BLACK IN WOOD CEILING.
9. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.

DIAGNAL HATCH AREAS NOT WITHIN SCOPE OF WORK

RCP KEYNOTES	
#	NOTE
1	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS
2	GYP. BOARD SOFFIT, EXTEND VERTICAL WALL 6" MIN ABOVE ADJACENT CEILING
3	CEILING MOUNTED OPERABLE ROOM PARTITION
4	NO CEILING IN THIS ROOM. OPEN TO STRUCTURE.
5	CEILING MOUNTED EYEBOLT, CONNECT TO STRUCTURE. REFER TO DETAIL 12/A311 AND STRUCTURAL DRAWINGS
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	CEILING MOUNTED EXIT SIGN
8	WALL MOUNTED EXIT SIGN
10	LWC-1 CEILING, REFER TO 5/A151 FOR PATTERN START LOCATION AND DETAILS
11	CEILING MOUNTED PATRON COUNTING, OFCI. REFER TO TECH DRAWINGS FOR ADDITIONAL INFORMATION
12	RECESSED CEILING TRACK FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT INFORMATION.
13	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS

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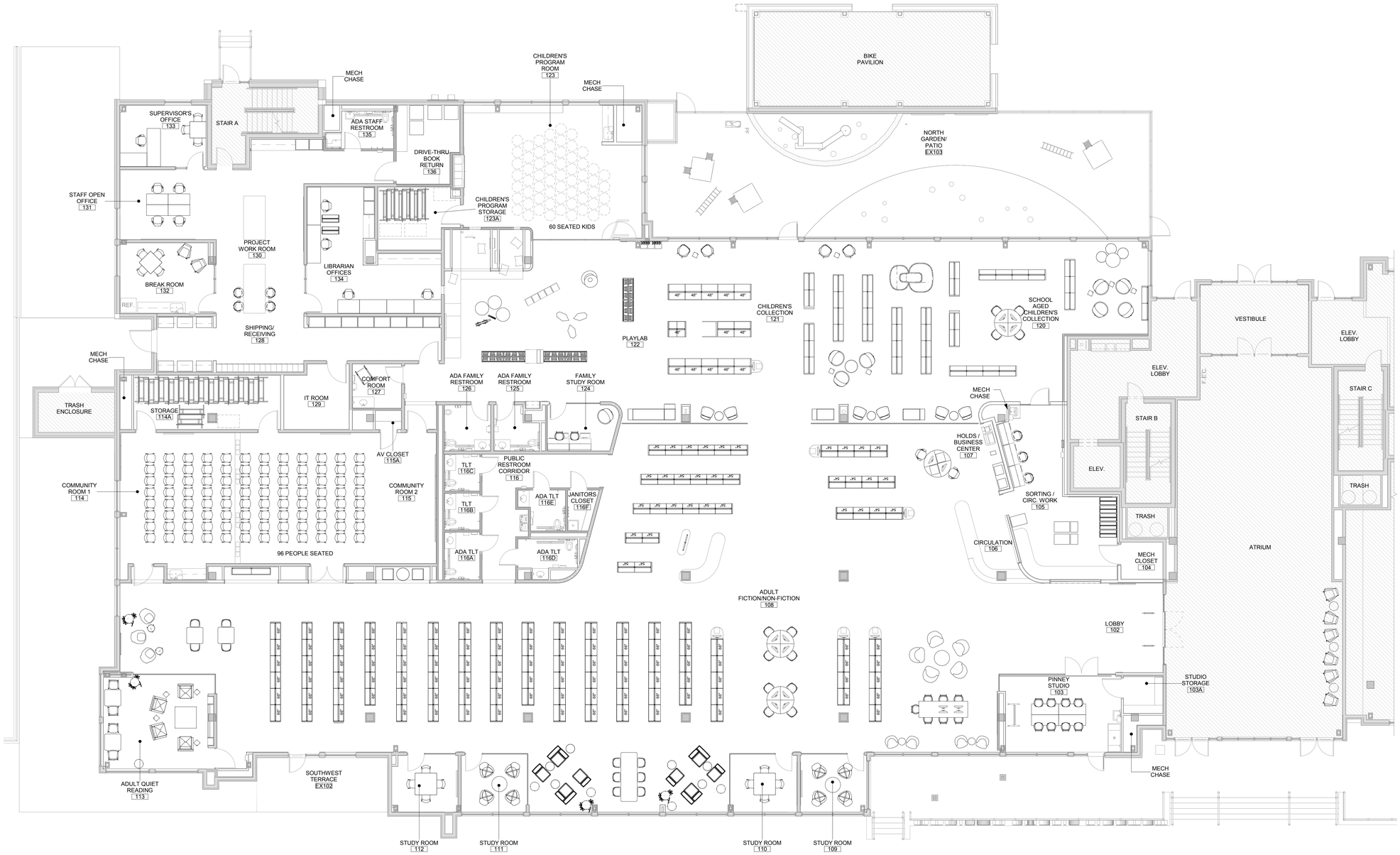
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Sheet Name
ENLARGED REFLECTED CEILING PLANS

Sheet Number
A151

GENERAL NOTES

1. ALL FUNITURE SHOWN ON PLANS IS FOR REFERENCE AND COORDINATION PURPOSES ONLY.
2. HATCHED AREAS NOT WITHIN SCOPE OF WORK.



FOR REFERENCE ONLY

1 LEVEL 1 FURNITURE FLOOR PLAN
1/8" = 1'-0"

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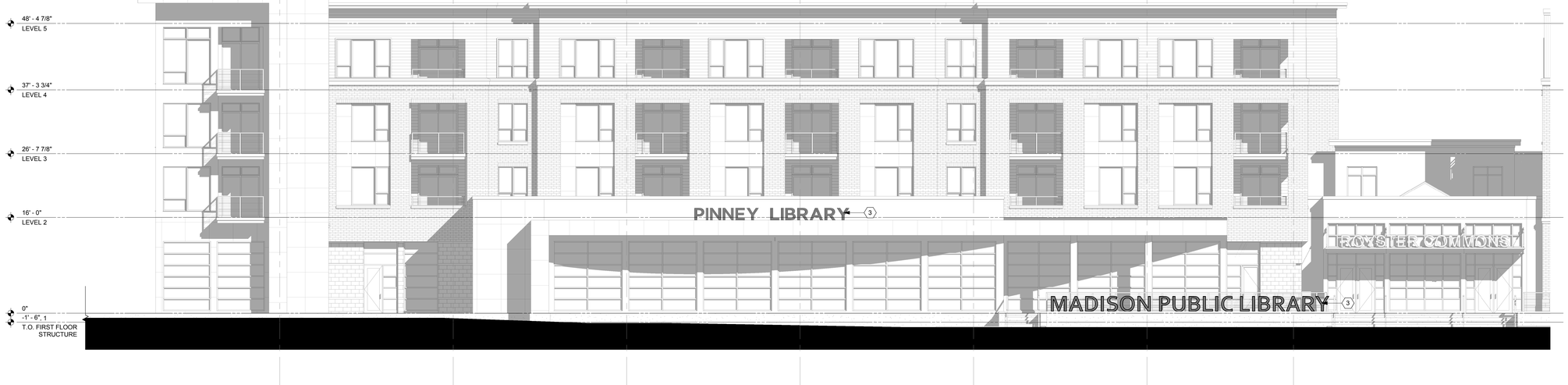
Sheet Issue Date
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Sheet Name
FURNITURE PLAN LEVEL 1 - FOR REFERENCE ONLY

Sheet Number
A161



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

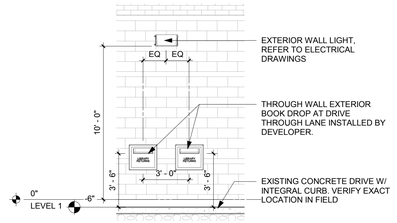


2 SOUTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

1. EXTERIOR ELEVATIONS PRIMARILY SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY.
2. ALL EXTERIOR WALLCLADDING MATERIALS AND OPENINGS ARE EXISTING.
3. LIBRARY SIGNAGE IS NEW AND WILL BE COORDINATED BETWEEN THE DEVELOPER AND OWNER. NO WORK REQUIRED BY G.C.
4. ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

EXT. ELEVATION KEYNOTES	
#	NOTE
1	THROUGH WALL EXTERIOR BOOK DROP AT DRIVE THROUGH LANE. REFER TO SITE PLAN (FOR REFERENCE ONLY) FOR DRIVE THROUGH LANE LOCATION AND INFORMATION.
2	EXTERIOR WALL LIGHT. REFER TO ELECTRICAL DRAWINGS
3	NEW EXTERIOR SIGN. OWNER PROVIDED AND INSTALLED BY DEVELOPER. NOT IN G.C. SCOPE OF WORK.



3 DRIVE THRU BOOK DROP ELEVATION
1/4" = 1'-0"

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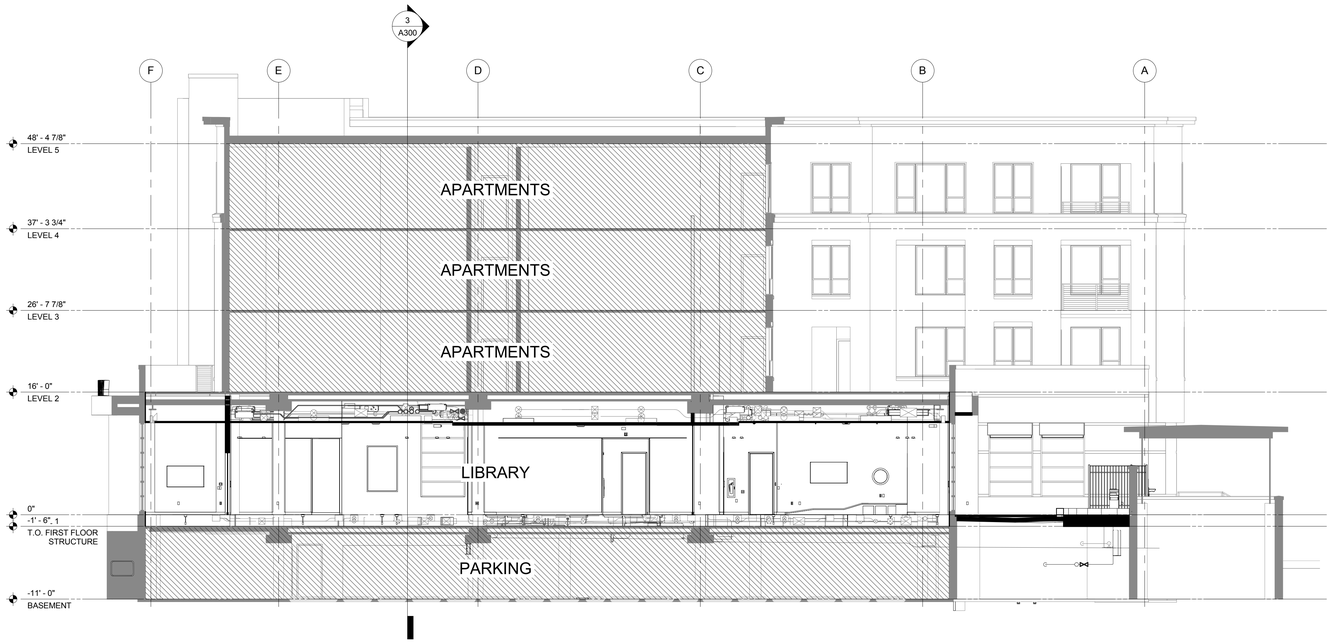
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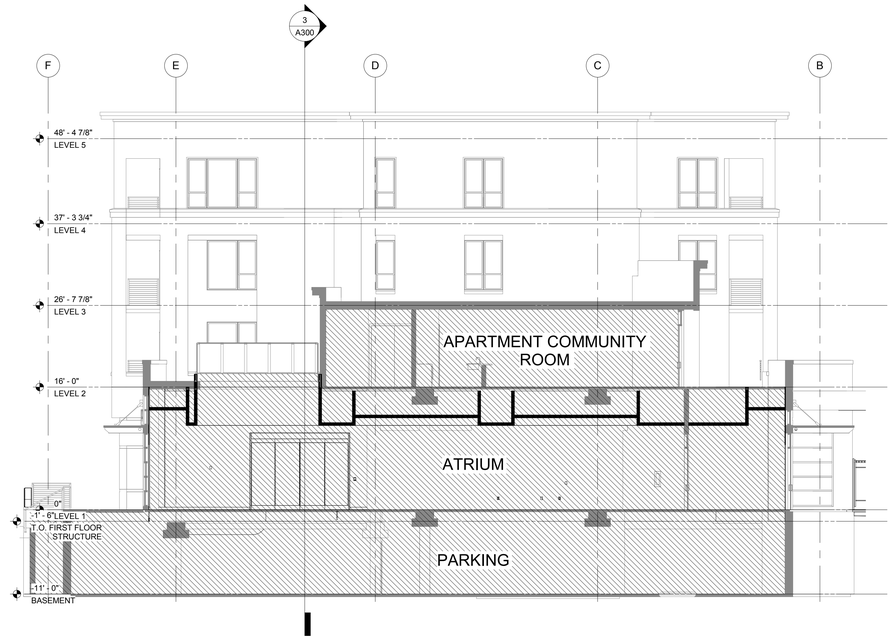
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EXTERIOR ELEVATIONS

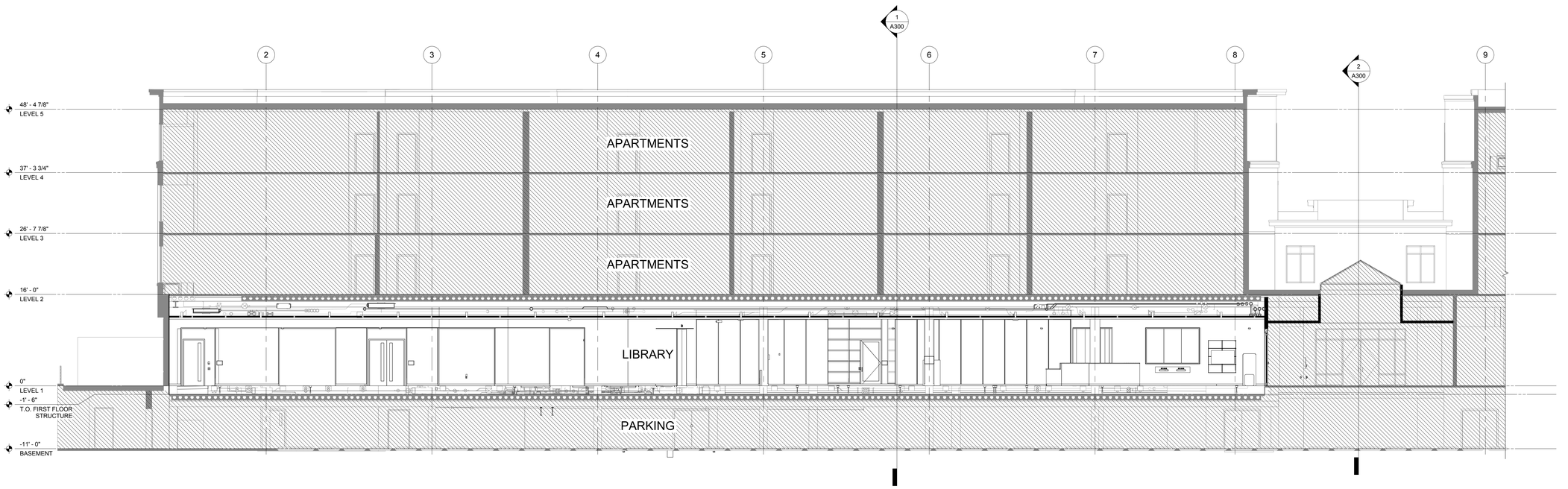
Sheet Number
A200



1 NORTH/SOUTH BUILDING SECTION
1/8" = 1'-0"



2 NORTH/SOUTH ATRIUM BUILDING SECTION
1/8" = 1'-0"



3 EAST/WEST BUILDING SECTON
1/8" = 1'-0"

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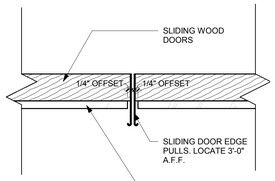
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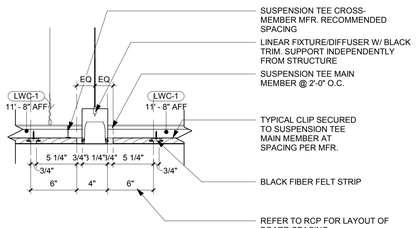
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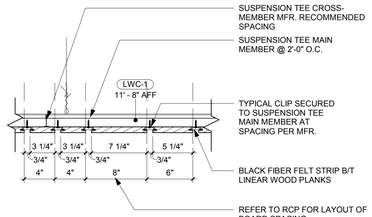
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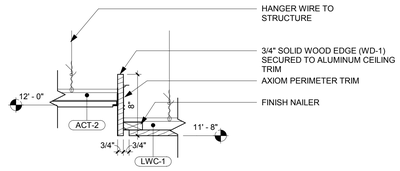
15 SLIDING DOOR PULL
3" = 1'-0"



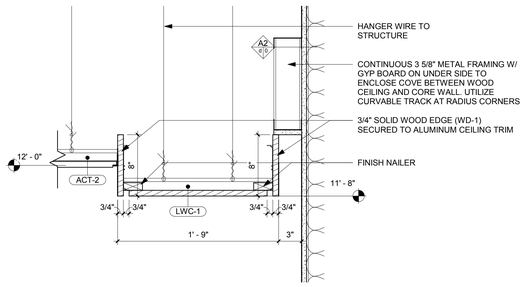
14 WOOD CEILING @ TYP. LIGHT/DIFFUSER
1 1/2" = 1'-0"



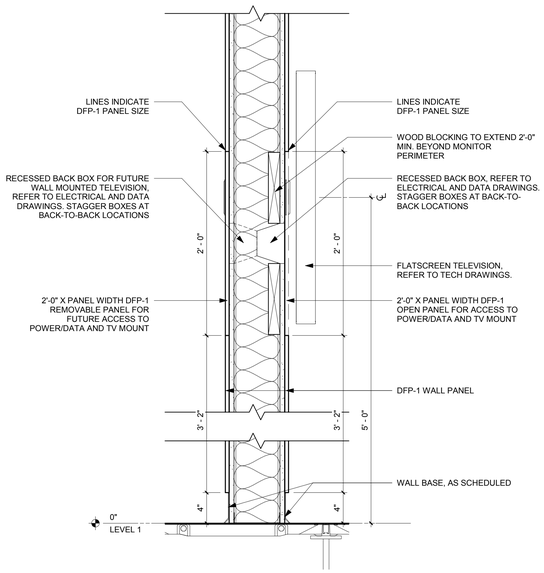
13 WOOD CEILING ATTACHMENT



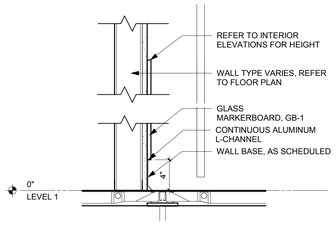
12 WOOD CEILING EDGE TRANSITION @ ACT



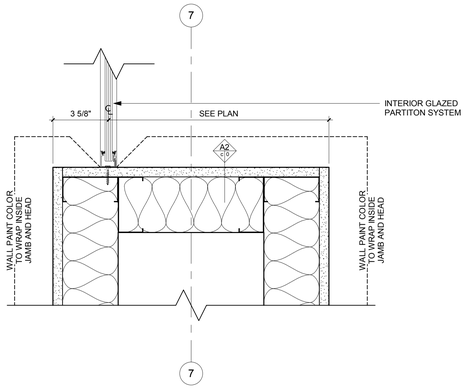
11 WOOD CEILING EDGE DETAIL @ COVE



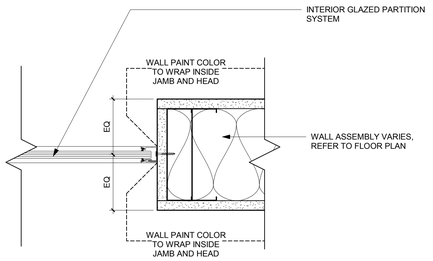
10 WALL MOUNTED MONITOR @ DFP
1 1/2" = 1'-0"



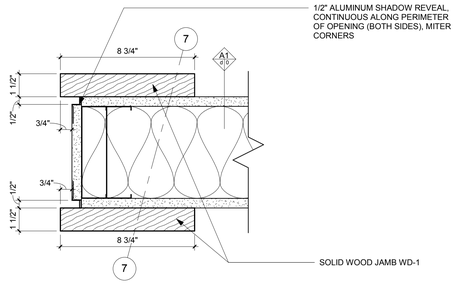
9 WALL MOUNTED BACK-PAINTED MARKERBOARD
1 1/2" = 1'-0"



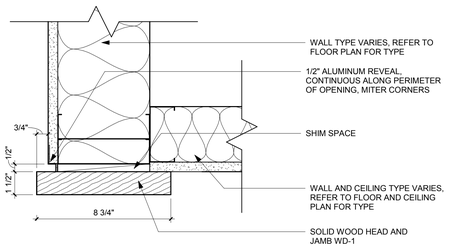
8 INTERIOR GLAZING WIDE JAMB
3" = 1'-0"



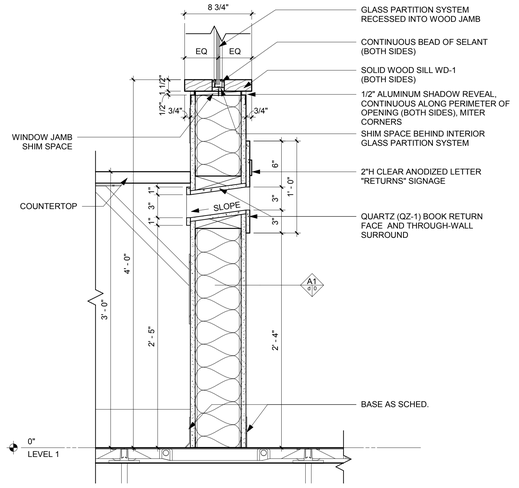
7 INTERIOR GLAZING JAMB
3" = 1'-0"



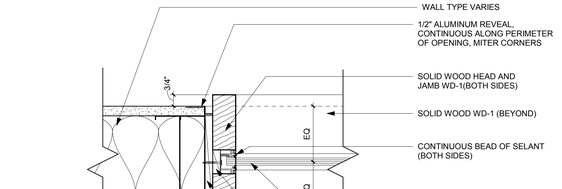
6 WOOD OPENING DOUBLE JAMB
3" = 1'-0"



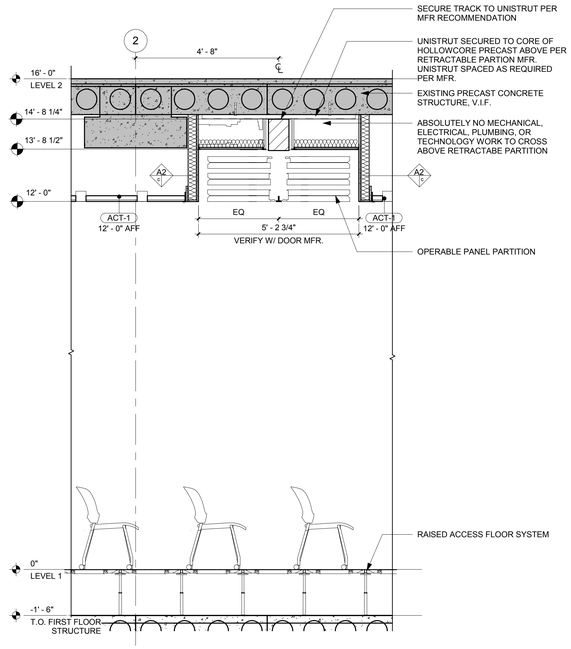
5 WOOD OPENING HEAD AND JAMB
3" = 1'-0"



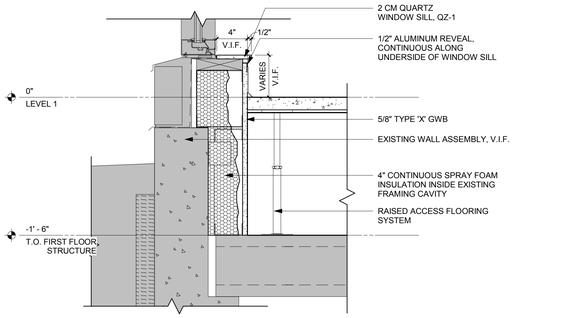
4 INTERIOR BOOK DROP
1 1/2" = 1'-0"



3 WOOD WINDOW HEAD AND JAMB
3" = 1'-0"



2 RETRACTABLE ROOM DIVIDER
1/2" = 1'-0"



1 EXTERIOR STOREFRONT WINDOW SILL
1 1/2" = 1'-0"

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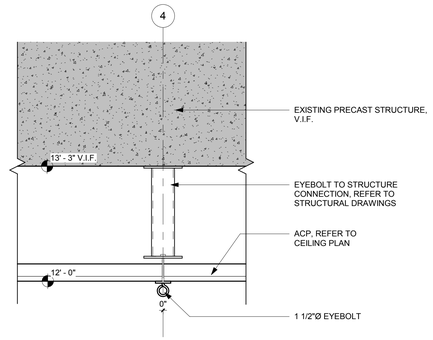
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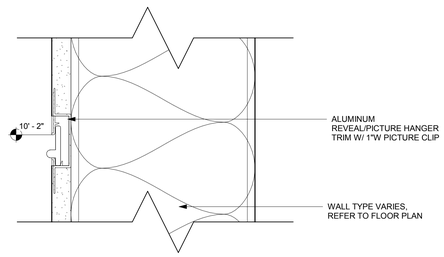
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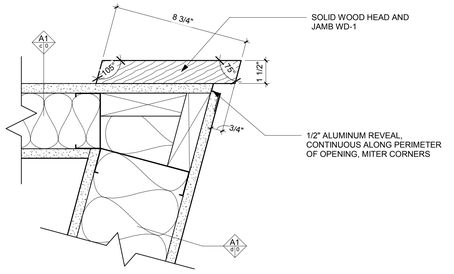
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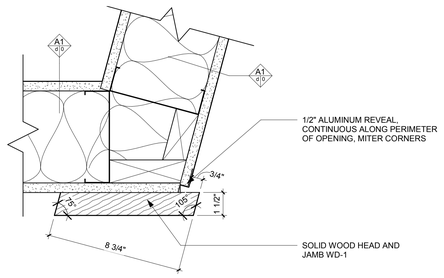
12 CEILING MOUNTED EYEBOLT
1 1/2" = 1'-0"



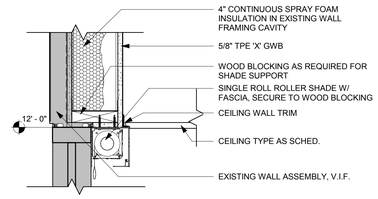
11 REVEAL/PICTURE HANGER TRIM
6" = 1'-0"



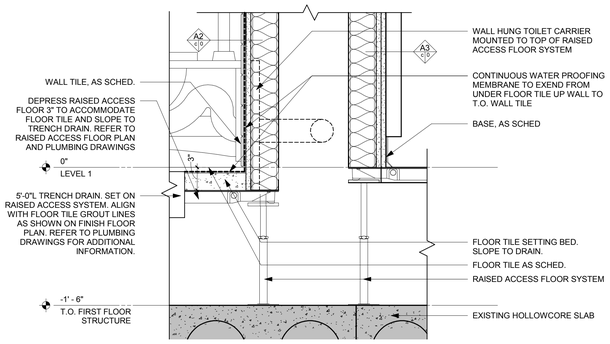
8 WOOD ANGLED OPENING JAMB 2
3" = 1'-0"



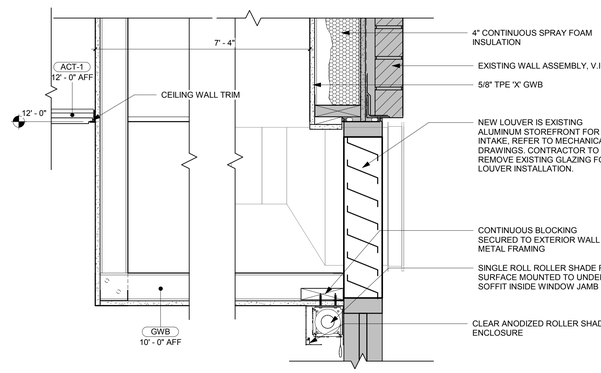
7 WOOD ANGLED OPENING JAMB 1
3" = 1'-0"



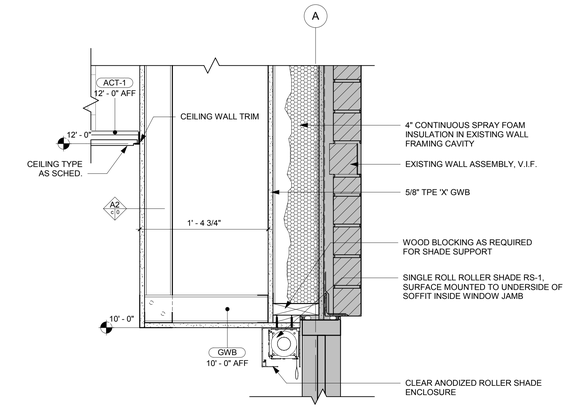
4 SINGLE ROLL ROLLER SHADE POCKET
1 1/2" = 1'-0"



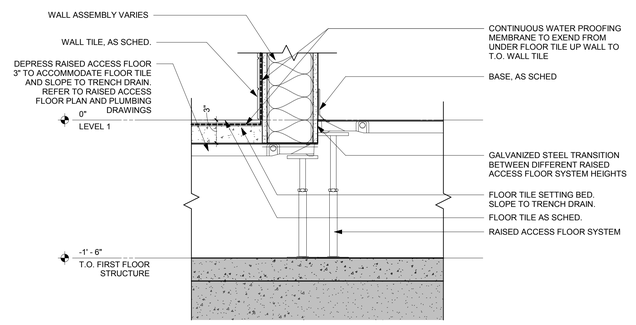
3 RAISED ACCESS FLOOR TOILET CHASE
1 1/2" = 1'-0"



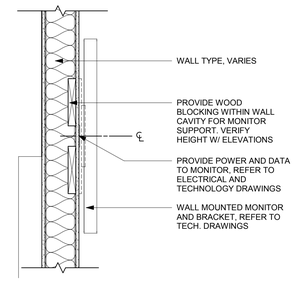
10 AIR INTAKE GYP BOARD SOFFIT
1 1/2" = 1'-0"



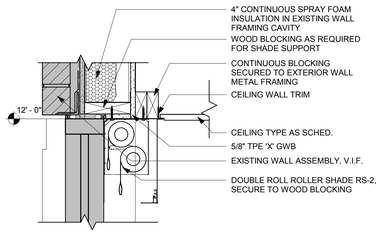
6 EXTERIOR GYP BOARD SOFFIT
1 1/2" = 1'-0"



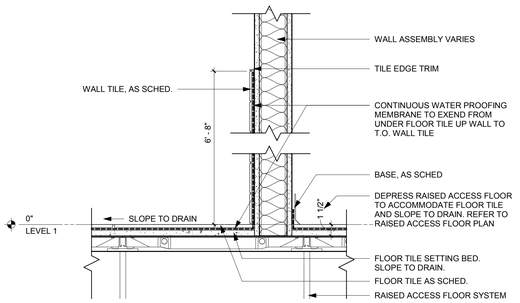
2 RAISED ACCESS FLOOR TRANSITION
1 1/2" = 1'-0"



9 TYPICAL MONITOR MOUNT
1" = 1'-0"



5 DOUBLE ROLL ROLLER SHADE POCKET
1 1/2" = 1'-0"



1 TYPICAL RESTROOM WATERPROOFING B/T CORRIDOR
1 1/2" = 1'-0"

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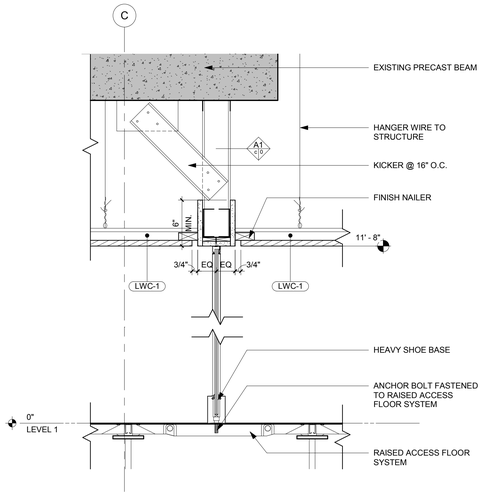
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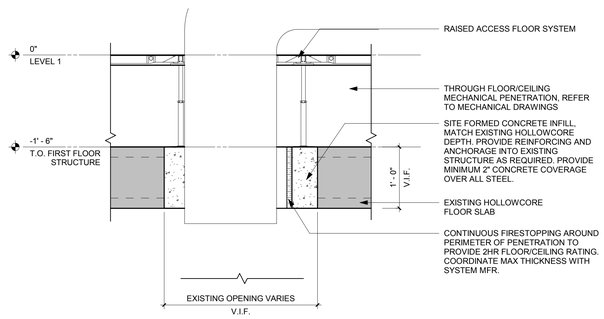
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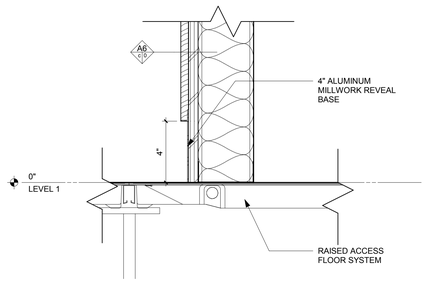
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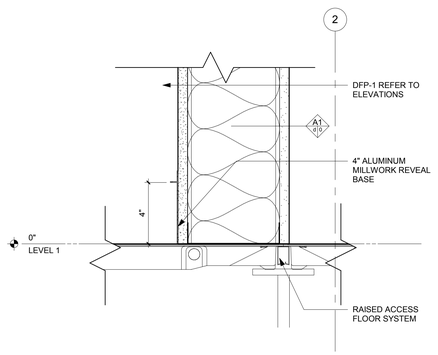
15 GLAZING @ WOOD CEILING
1 1/2" = 1'-0"



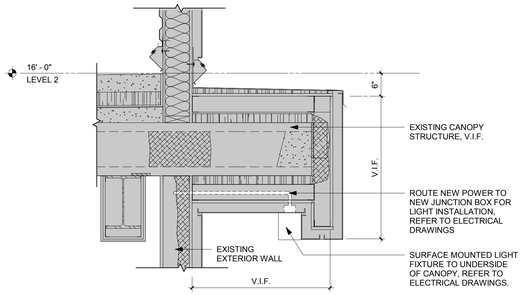
14 2HR RATED FLOOR PENETRATION



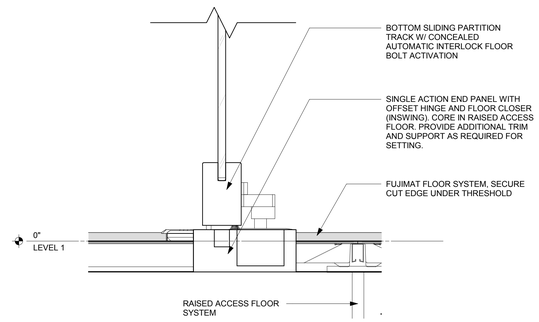
13 WOOD WALL BASE DETAIL
3" = 1'-0"



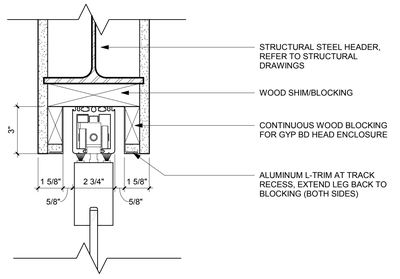
12 DECORATIVE FELT PANEL BASE DETAIL
3" = 1'-0"



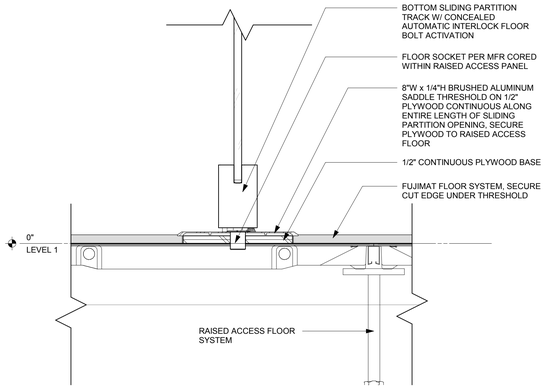
11 EXISTING SOUTH CANOPY DETAIL
3/4" = 1'-0"



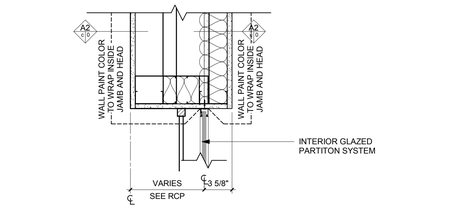
10 SLIDING DOOR PARTITION SILL @ END PANEL



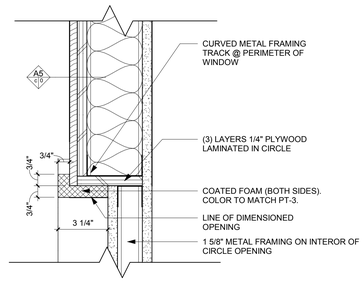
9 SLIDING DOOR PARTITION HEAD
3" = 1'-0"



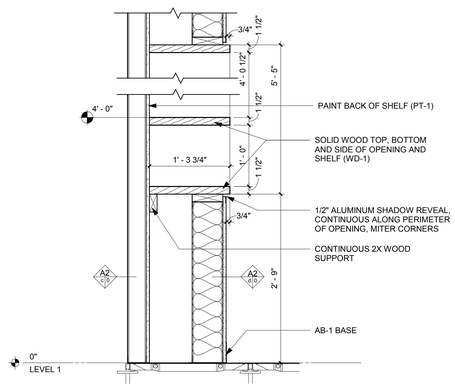
8 SLIDING DOOR PARTITION SILL
3" = 1'-0"



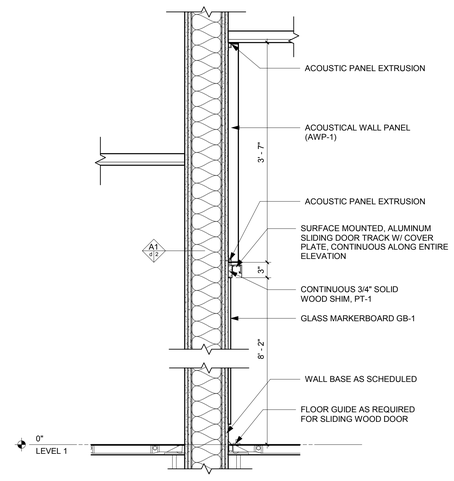
7 INTERIOR GLAZING HEAD
1 1/2" = 1'-0"



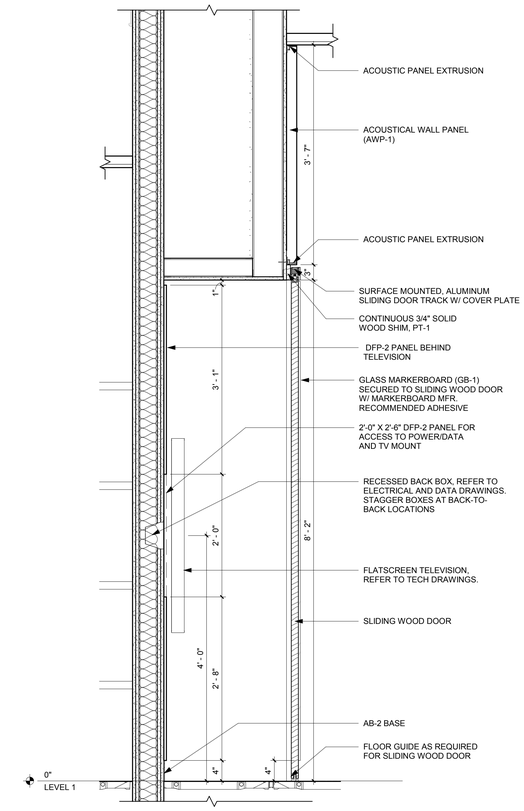
6 ROUND CUBBY JAMB
3" = 1'-0"



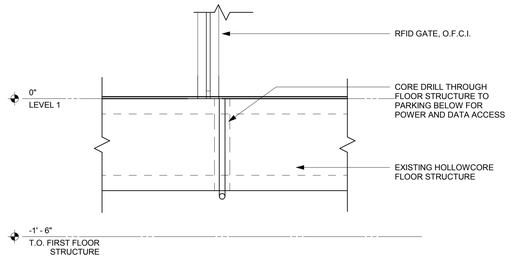
5 BUILT-IN DISPLAY
1" = 1'-0"



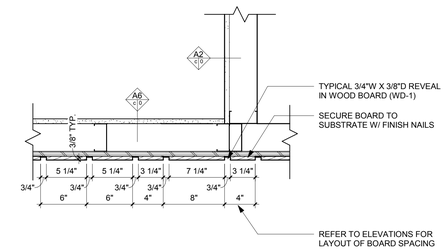
4 SLIDING DOOR @ GLASS MARKERBOARD
1" = 1'-0"



3 SLIDING DOOR @ MONITOR
1" = 1'-0"



2 RFID GATE
1 1/2" = 1'-0"



1 VERTICAL WOOD CLADDING
1 1/2" = 1'-0"

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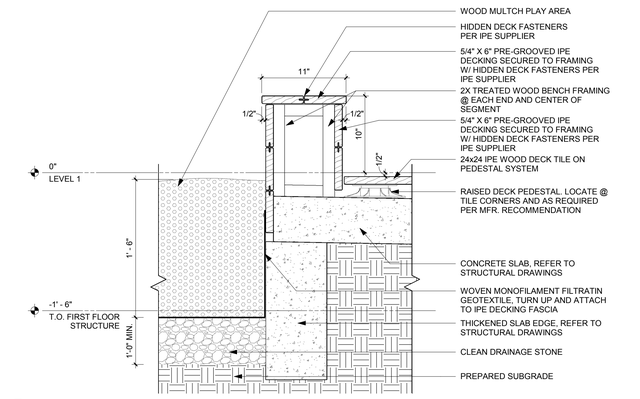
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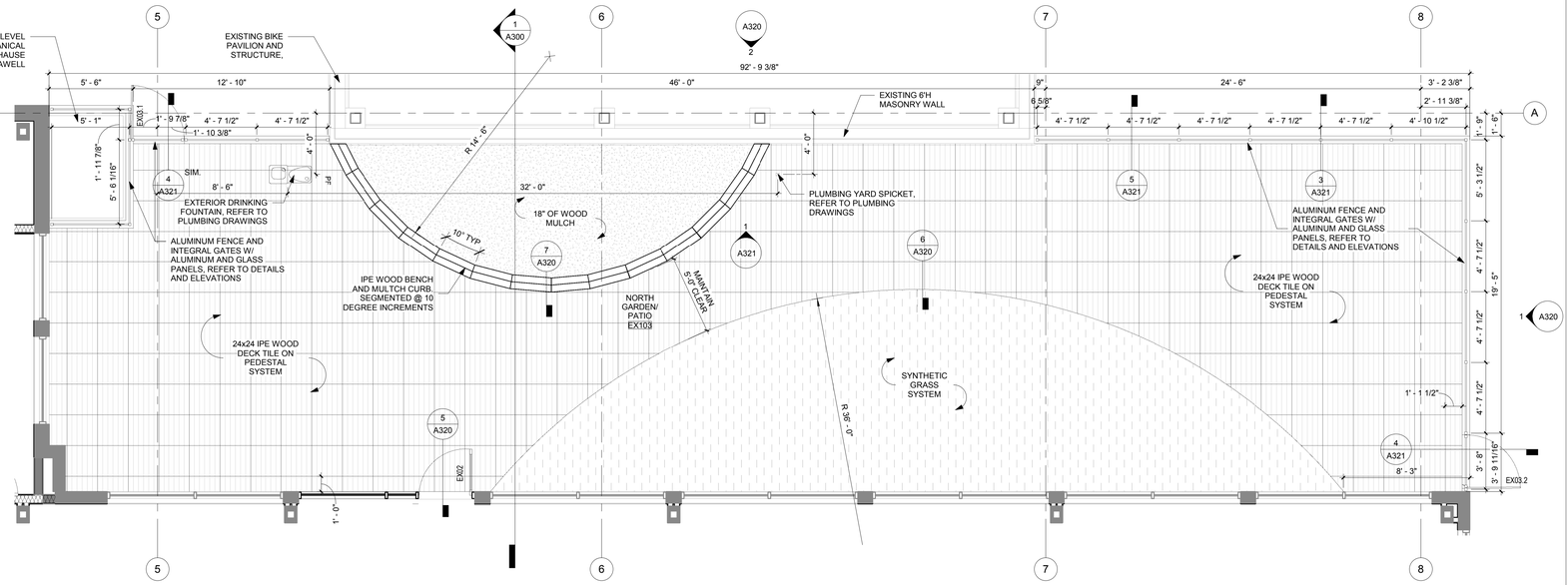
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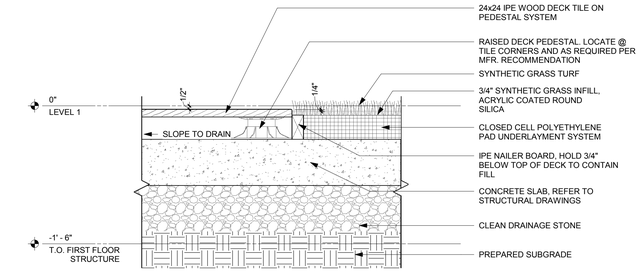
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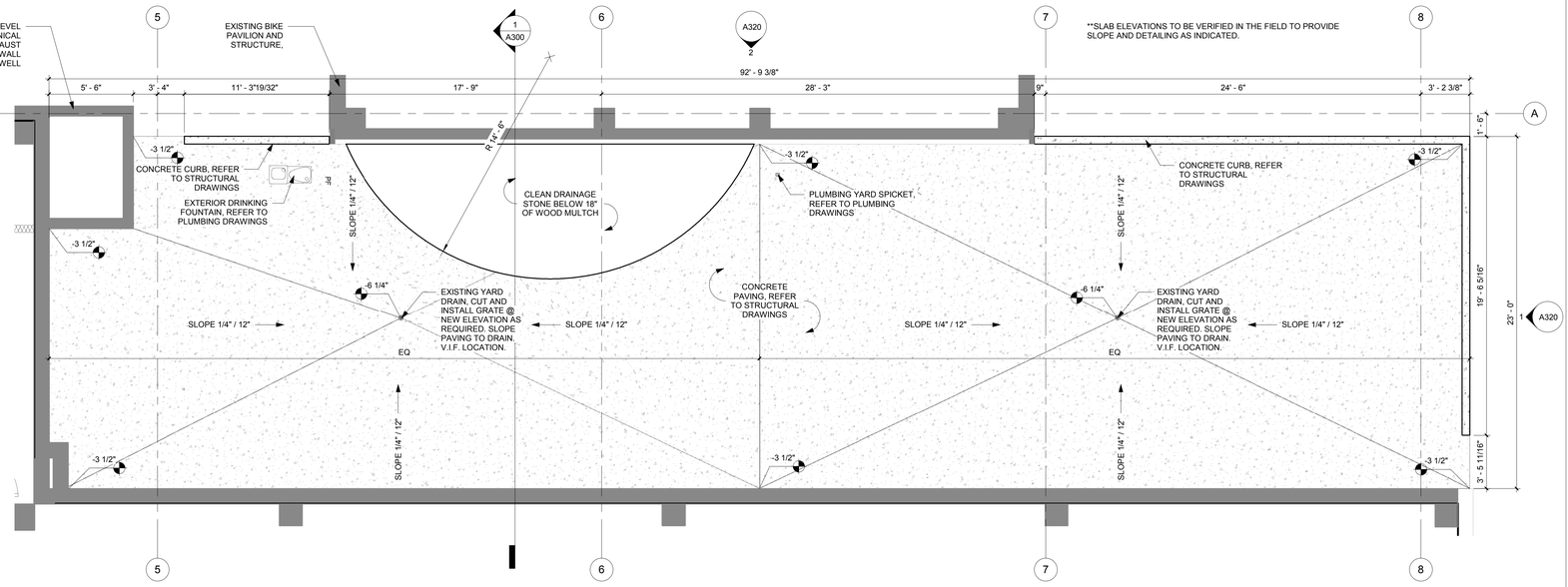
7 IPE BENCH @ MULTCH PLAY AREA
1 1/2" = 1'-0"



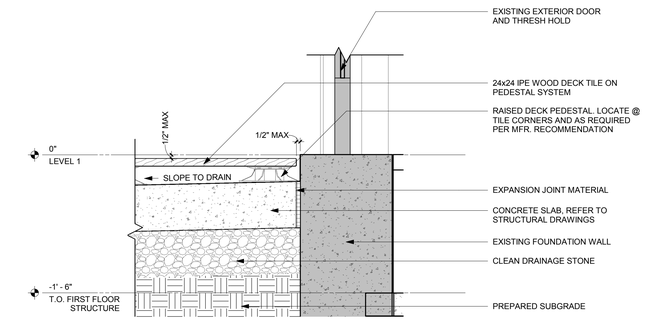
4 ENLARGED NORTH GARDEN PATIO PLAN
1/4" = 1'-0"



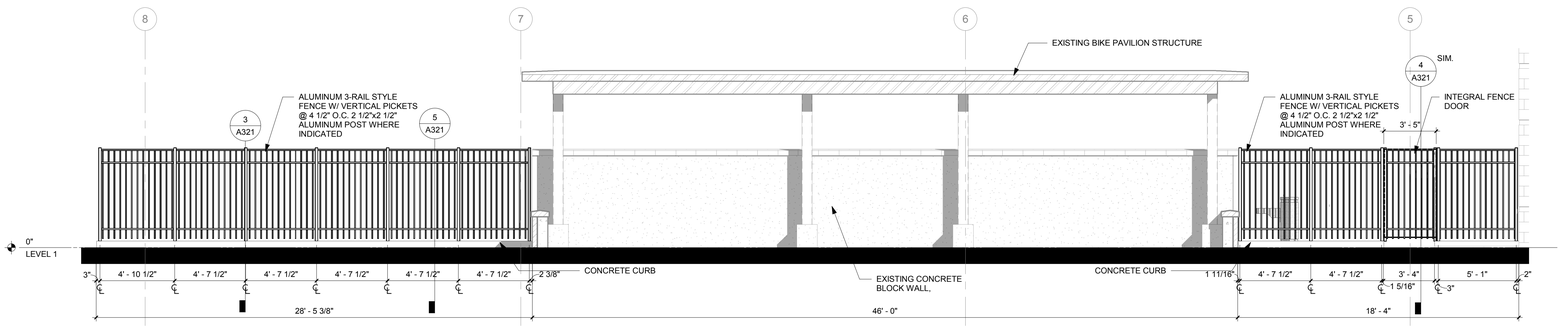
6 IPE DECKING @ SYNTHETIC GRASS TURF
1 1/2" = 1'-0"



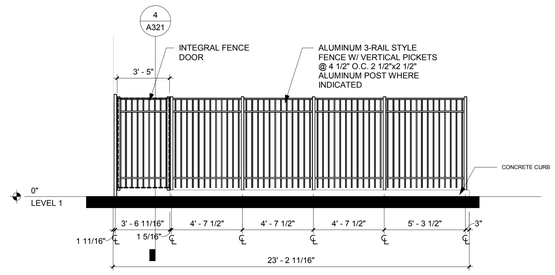
3 ENLARGED NORTH GARDEN UNDER SLAB PATIO PLAN
1/4" = 1'-0"



5 IPE DECKING @ EXISTING FOUNDATION WALL
1 1/2" = 1'-0"



2 NORTH FENCE ELEVATION - NORTH GARDEN TERRACE
1/4" = 1'-0"



1 EAST FENCE ELEVATION - NORTH GARDEN TERRACE
1/4" = 1'-0"

*** ALL INFORMATION ON THIS SHEET PART OF ALTERNATE 1**

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Key Plan

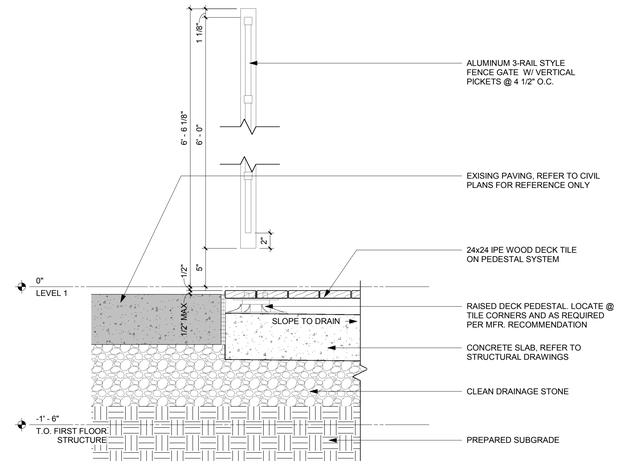
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OPN Project No.
17609000

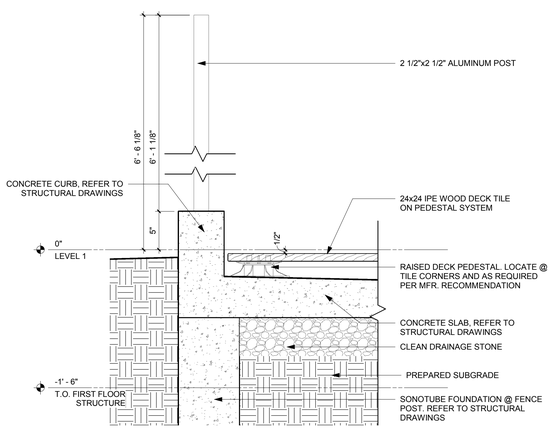
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PATIO ENCLOSURE PLAN, ELEVATIONS, AND DETAILS

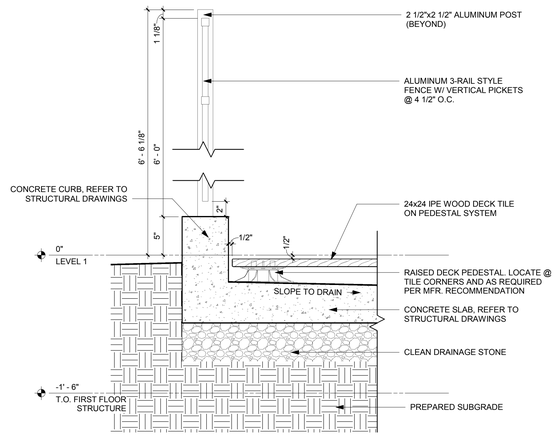
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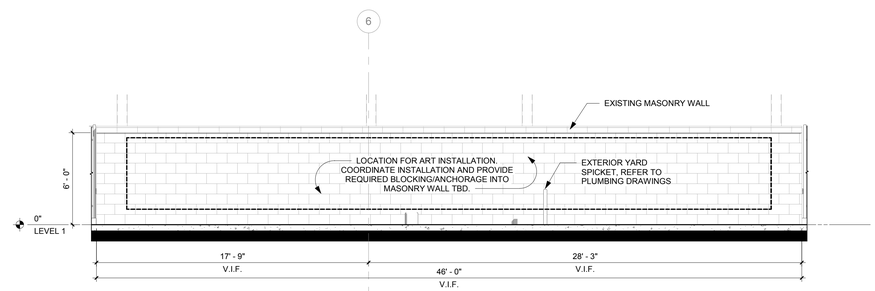
4 FENCE GATE SECTION
1 1/2" = 1'-0"



3 TYPICAL FENCE POST SECTION
1 1/2" = 1'-0"



5 TYPICAL FENCE PANEL SECTION
1 1/2" = 1'-0"



1 NORTH GARDEN TERRACE - LIVING WALL
1/4" = 1'-0"

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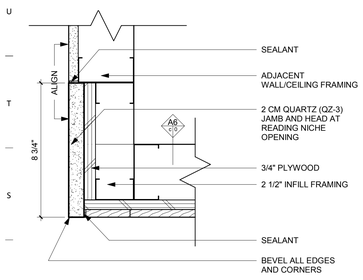
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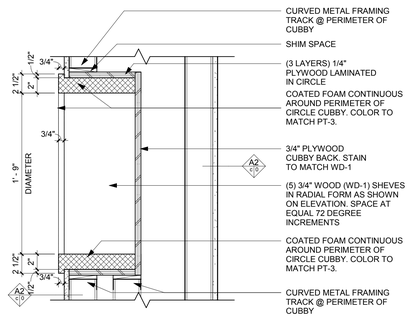
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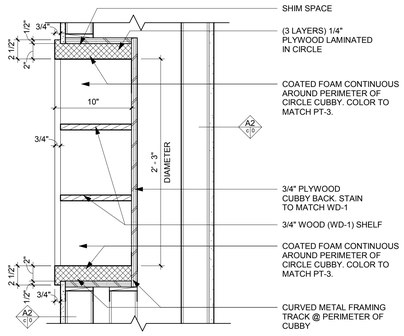
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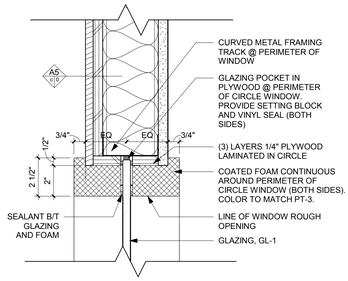
14 READING NICHE OPENING HEAD AND JAMB
3" = 1'-0"



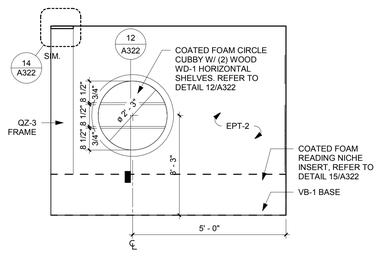
13 ROUND SHELF 2
1 1/2" = 1'-0"



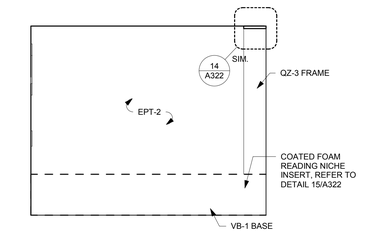
12 ROUND SHELF 1



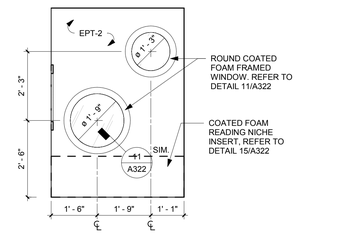
11 ROUND WINDOW JAMB
3" = 1'-0"



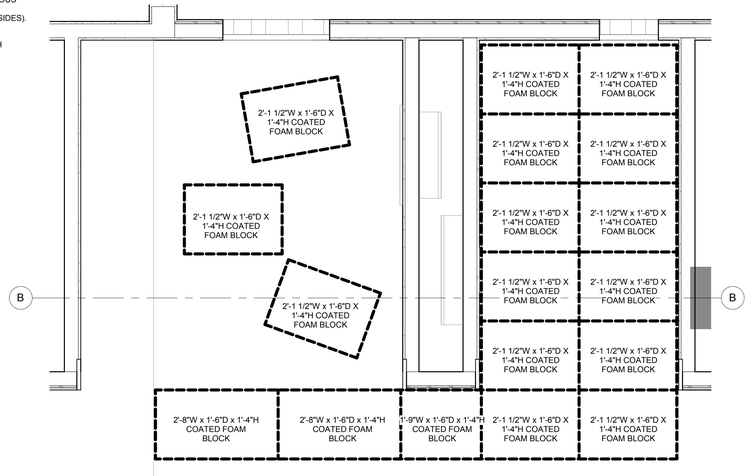
10 PLAYLAB - READING NICHE 2 - WEST
1/2" = 1'-0"



9 PLAYLAB - READING NICHE 2 - EAST
1/2" = 1'-0"



8 PLAYLAB - READING NICHE 2 - NORTH
1/2" = 1'-0"

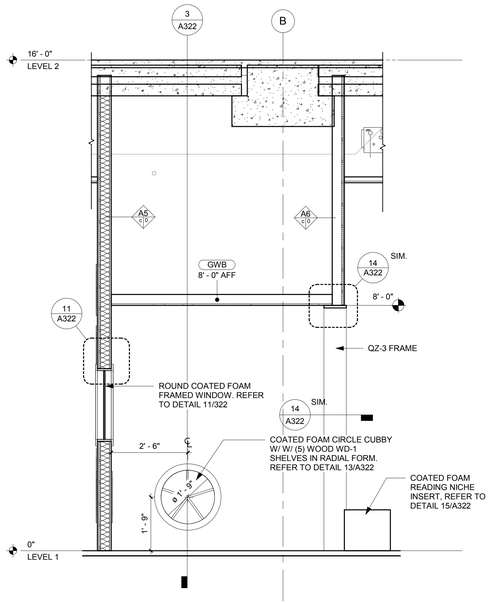


15 READING NICHE COATED FOAM BLOCKS
3/4" = 1'-0"

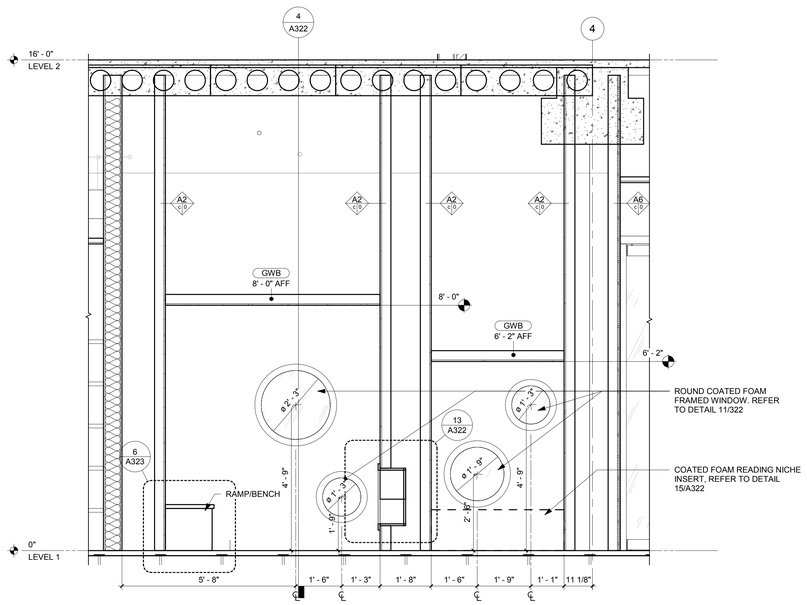
7 PLAYLAB - READING NICHE 1 - WEST
1/2" = 1'-0"

6 PLAYLAB - READING NICHE 1 - EAST
1/2" = 1'-0"

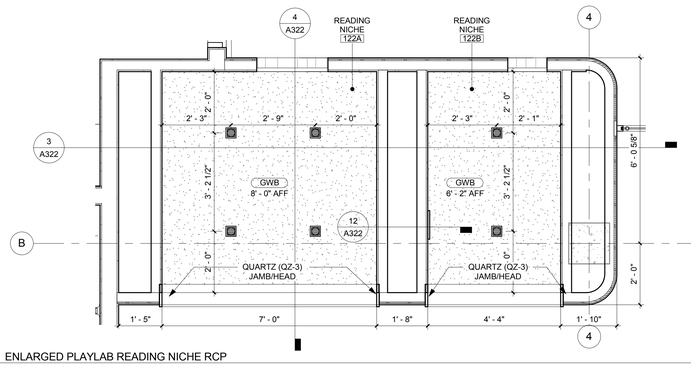
5 PLAYLAB - READING NICHE 1 - NORTH
1/2" = 1'-0"



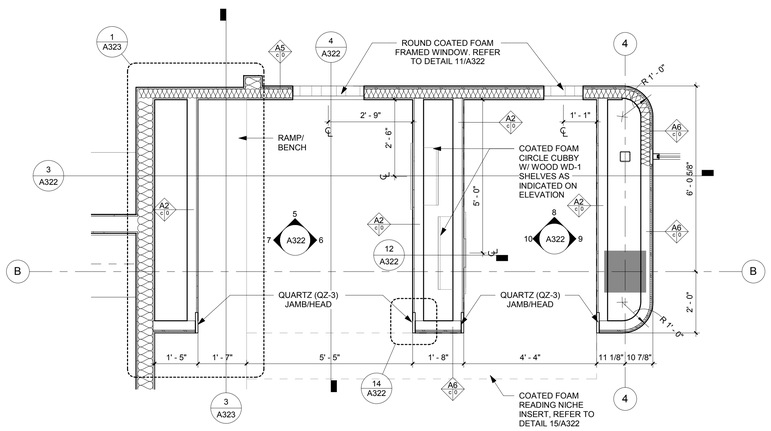
4 PLAYLAB READING NICHE - SECTION 2
1/2" = 1'-0"



3 PLAYLAB READING NICHE - SECTION 1
1/2" = 1'-0"



2 ENLARGED PLAYLAB READING NICHE RCP
1/2" = 1'-0"



1 ENLARGED PLAYLAB READING NICHES FLOOR PLAN
1/2" = 1'-0"

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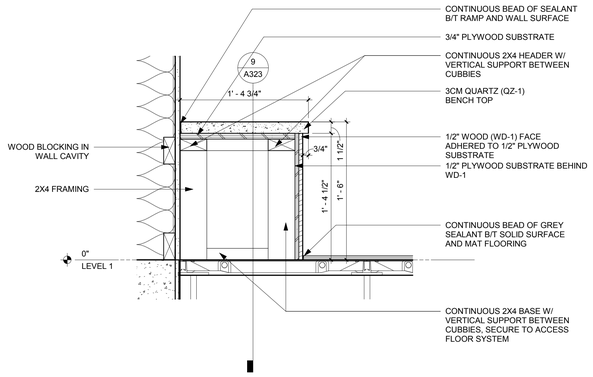
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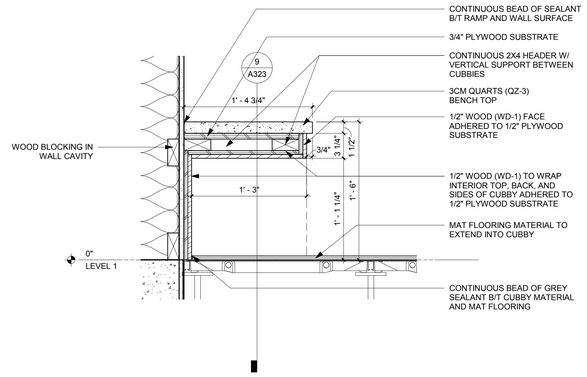
PLAYLAB PLAN, ELEVATIONS, AND DETAILS

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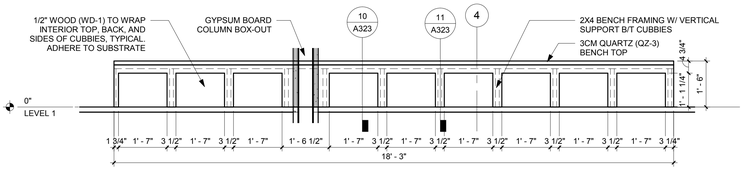
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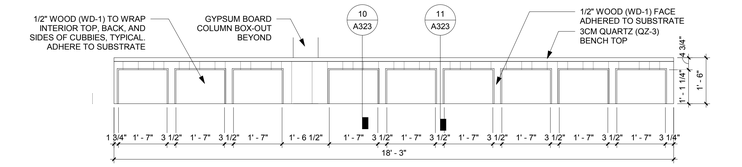
11 CHILDREN'S PROGRAM ROOM BENCH CROSS SECTION 2
1 1/2" = 1'-0"



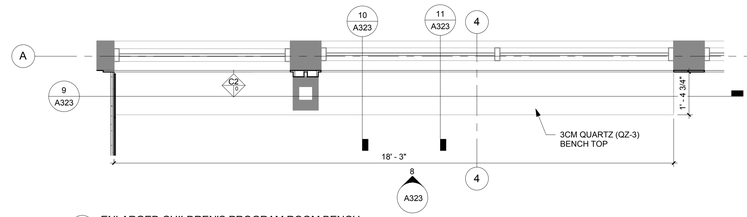
10 CHILDREN'S PROGRAM ROOM BENCH CROSS SECTION 1
1 1/2" = 1'-0"



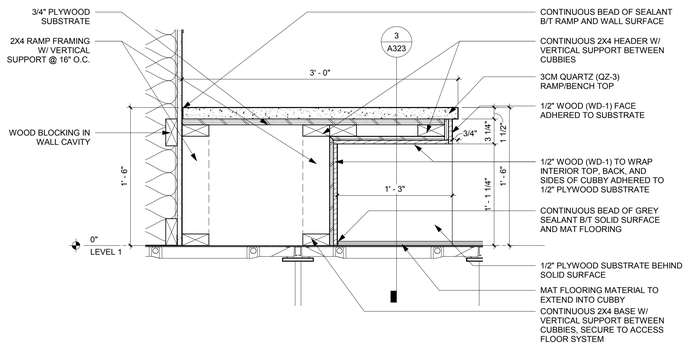
9 CHILDREN'S PROGRAM ROOM BENCH LONGITUDINAL SECTION
1/2" = 1'-0"



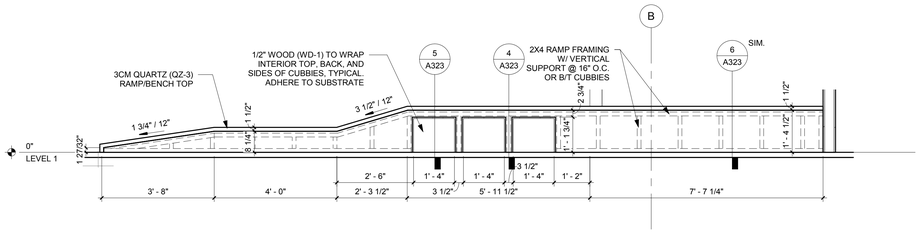
8 CHILDREN'S PROGRAM ROOM BENCH ELEVATION
1/2" = 1'-0"



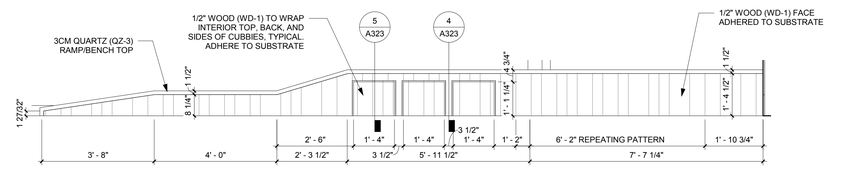
7 ENLARGED CHILDREN'S PROGRAM ROOM BENCH
1/2" = 1'-0"



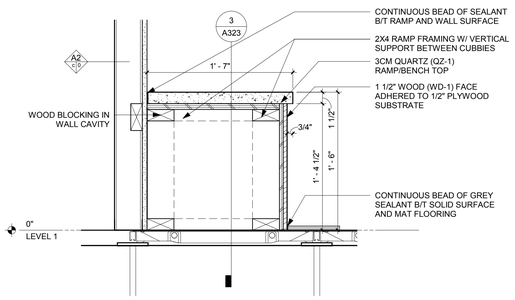
5 PLAYLAB RAMP CROSS SECTION @ CUBBY
1 1/2" = 1'-0"



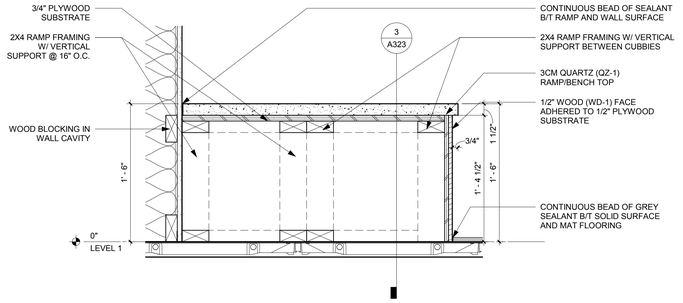
3 PLAYLAB RAMP LONGITUDINAL
1/2" = 1'-0"



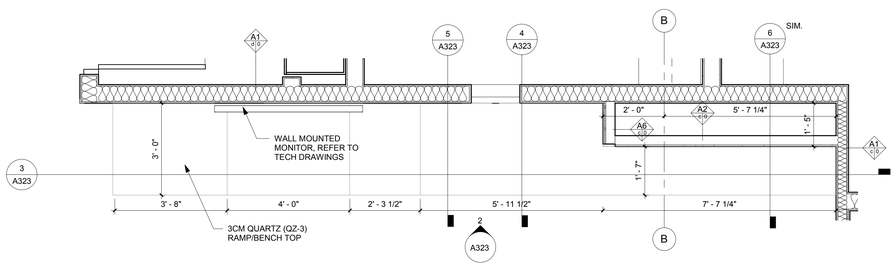
2 PLAYLAB RAMP ELEVATION
1/2" = 1'-0"



6 PLAYLAB RAMP CROSS SECTION @ NICHE
1 1/2" = 1'-0"



4 PLAYLAB RAMP CROSS SECTION
1 1/2" = 1'-0"



1 ENLARGED PLAYLAB RAMP
1/2" = 1'-0"

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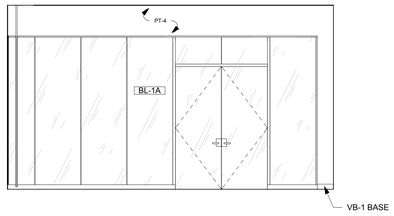
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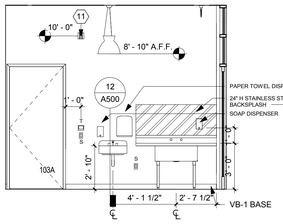
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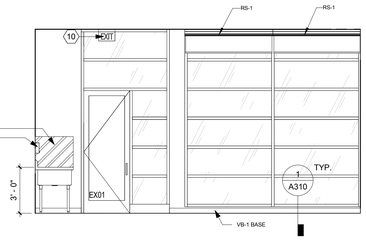
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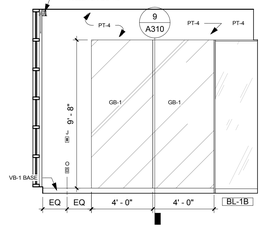
22 CREATOR SPACE - NORTH
1/4" = 1'-0"



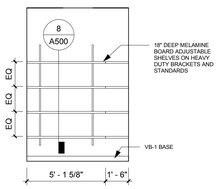
21 CREATOR SPACE - EAST
1/4" = 1'-0"



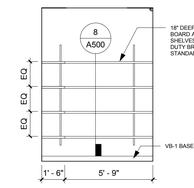
20 CREATOR SPACE - SOUTH
1/4" = 1'-0"



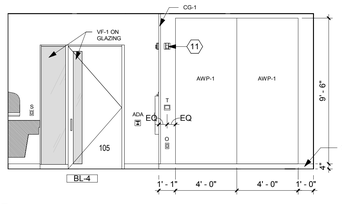
19 CREATOR SPACE - WEST
1/4" = 1'-0"



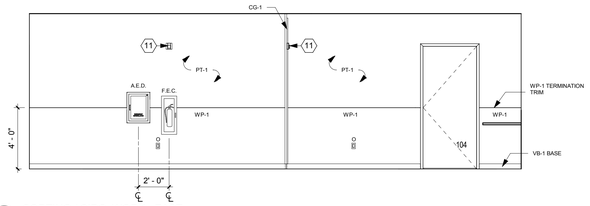
18 CREATOR STORAGE - EAST
1/4" = 1'-0"



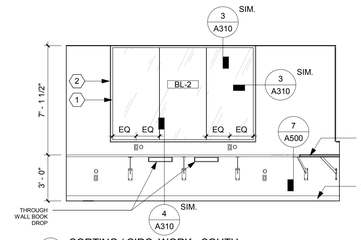
17 CREATOR STRORAGE - SOUTH
1/4" = 1'-0"



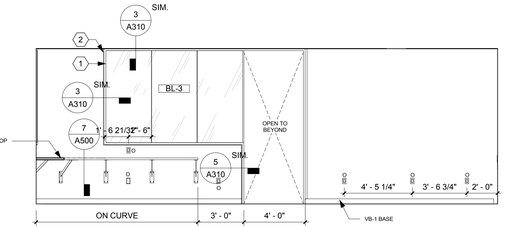
16 SORTING / CIRC. WORK - NORTH
1/4" = 1'-0"



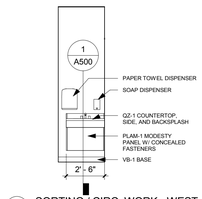
15 SORTING / CIRC. WORK - EAST
1/4" = 1'-0"



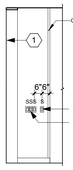
14 SORTING / CIRC. WORK - SOUTH
1/4" = 1'-0"



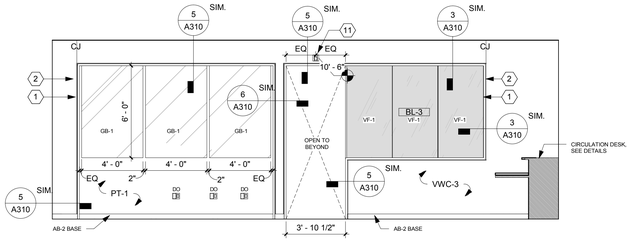
13 SORTING / CIRC. WORK - WEST
1/4" = 1'-0"



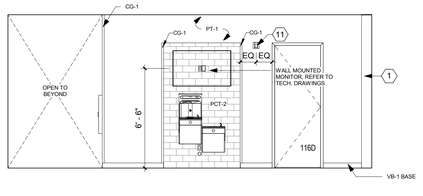
12 SORTING / CIRC. WORK - WEST
1/4" = 1'-0"



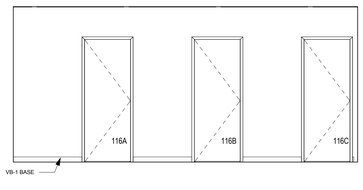
11 SORTING / CIRC. WORK - WING WALL
1/4" = 1'-0"



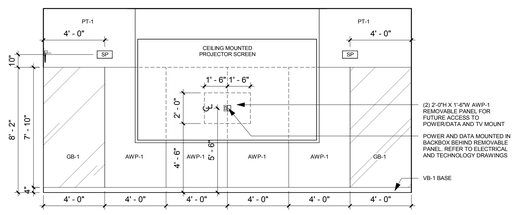
10 BUSINESS CENTER - EAST
1/4" = 1'-0"



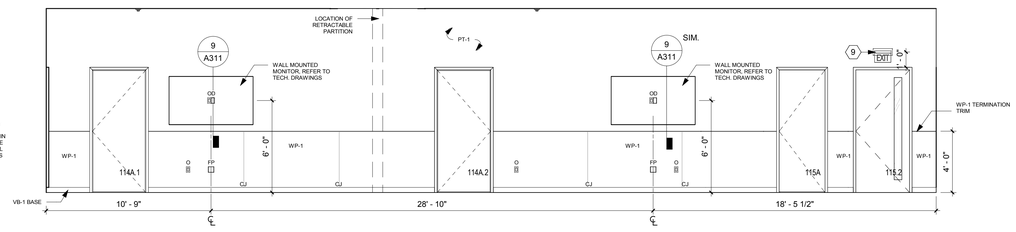
9 PUBLIC RESTROOMS CORRIDOR - EAST
1/4" = 1'-0"



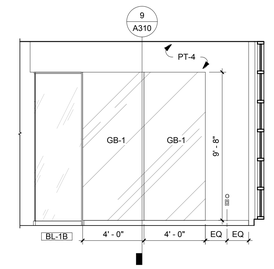
8 PUBLIC RESTROOM COORIDOR - WEST
1/4" = 1'-0"



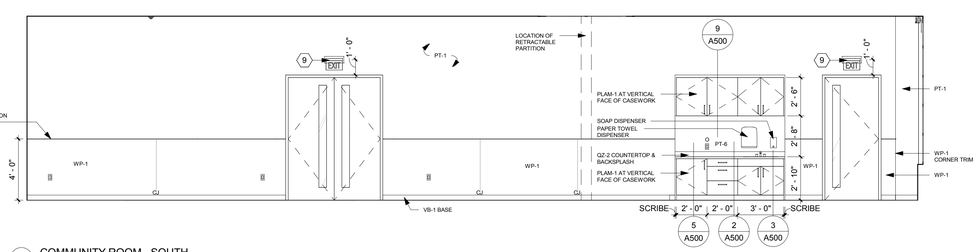
7 COMMUNITY ROOM - EAST
1/4" = 1'-0"



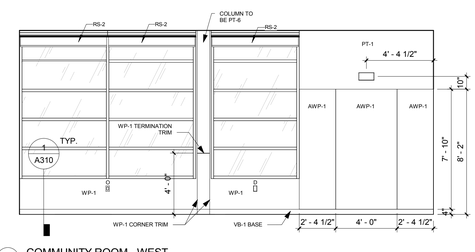
6 COMMUNITY ROOM - NORTH
1/4" = 1'-0"



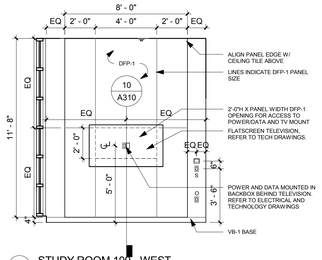
5 TEEN COLLECTIONS - EAST
1/4" = 1'-0"



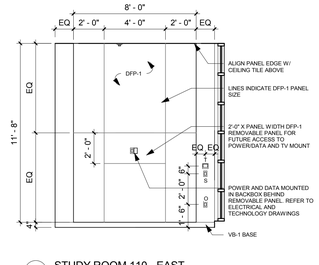
4 COMMUNITY ROOM - SOUTH
1/4" = 1'-0"



3 COMMUNITY ROOM - WEST
1/4" = 1'-0"



2 STUDY ROOM 109 - WEST
1/4" = 1'-0"



1 STUDY ROOM 110 - EAST
1/4" = 1'-0"

GENERAL NOTES

1. COORDINATE FINAL LOCATION OF FIRE ALARMS, THERMOSTATS AND EMERGENCY LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO FINISH PLANS, FINISH SCHEDULE, AND FINISH SPECIFICATION FOR ADDITIONAL WALL FINISH INFORMATION.
3. REFER TO DOOR AND BORROWED LIGHT ELEVATIONS AND SHCEDULE FOR DOOR AND INTERIOR GLAZING INFORMATION.
4. DIMENSIONS ARE MEASURED FROM FACE-OF-FINISH TO FACE-OF-FINISH UNLESS NOTED OTHERWISE.
5. REFER TO SHEET A500 FOR ALL TYPICAL CASEWORK DETAILS.
6. ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
7. PROVIDE COUNTERTOP BRACKET SUPPORTS @ 3'-0" O.C.
8. FURNITURE SHOWN AS DASHED LINES SHOWN FOR REFERENCE ONLY.

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O = OUTLET
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FP = AUDIOVISUAL FACEPLATE
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INT. ELEVATION KEYNOTES	
#	NOTE
1	FRAMED OPENING, WD-1
2	CONTINUOUS 1/2" ALUMINUM REVEAL, MITER CORNERS
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4	DIGITAL ROOM SCHEDULER, REFER TO TECHNOLOGY DRAWINGS
5	FRAMED OPENING, QZ-3
6	ROUND COATED FOAM FRAMED WINDOW. REFER TO DETAIL 11/A322
7	ROUND COATED FOAM CUBBY, REFER TO DETAIL 6/A312
8	PROVIDE OUTLET AT BACK OF STORAGE CABINET, REFER TO ELECTRICAL DRAWINGS
9	WALL MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
10	CEILING MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
11	FIRE ALARM NOTIFICATION, REFER TO ELECTRICAL DRAWINGS

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Key Plan

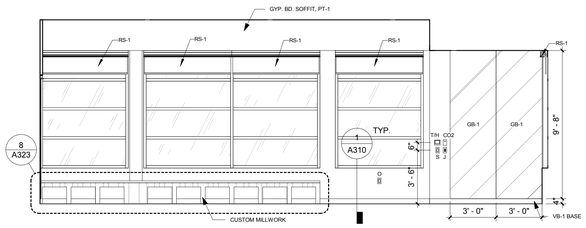
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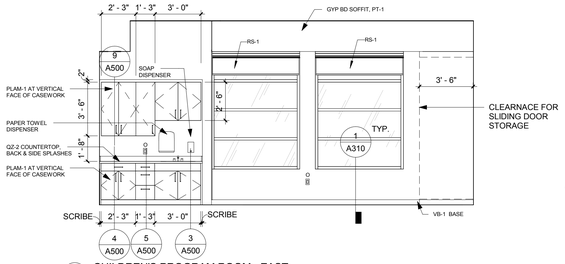
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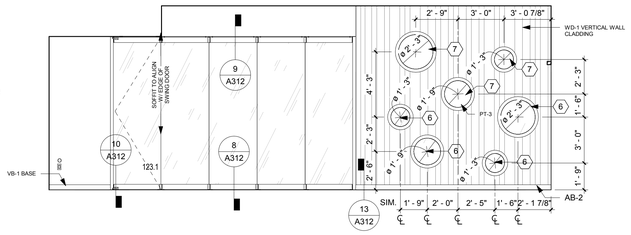
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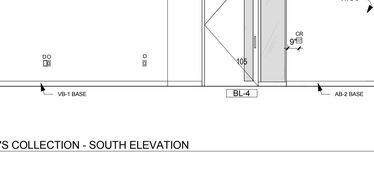
13 CHILDREN'S PROGRAM ROOM - NORTH
1/4" = 1'-0"



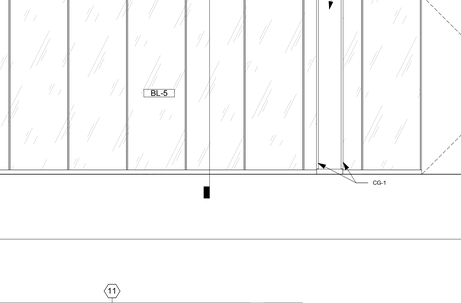
12 CHILDREN'S PROGRAM ROOM - EAST
1/4" = 1'-0"



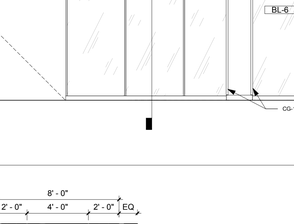
11 CHILDREN'S PROGRAM ROOM - SOUTH
1/4" = 1'-0"



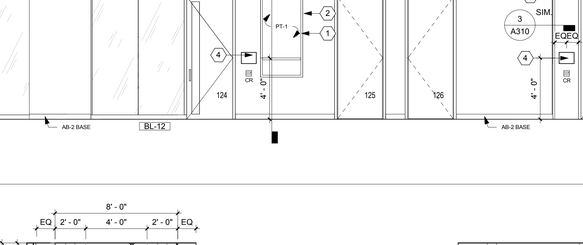
10 CHILDREN'S PROGRAM STORAGE
1/4" = 1'-0"



9 CHILDREN'S PROGRAM ROOM - WEST
1/4" = 1'-0"



8 CHILDREN'S PROGRAM ROOM TV RECESS- WEST
1/4" = 1'-0"



7 PLAYLAB - WEST
1/4" = 1'-0"

6 CHILDREN'S COLLECTION - NORTH ELEVATION
1/4" = 1'-0"

5 CHILDREN'S COLLECTION - SOUTH ELEVATION
1/4" = 1'-0"

4 ADULT COLLECTION - CORE WEST ELEVATION
1/4" = 1'-0"

3 STUDY ROOM 112 - EAST
1/4" = 1'-0"

2 STUDY ROOM 111 - WEST
1/4" = 1'-0"

1 STUDY ROOM 111 - EAST
1/4" = 1'-0"

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Key Plan

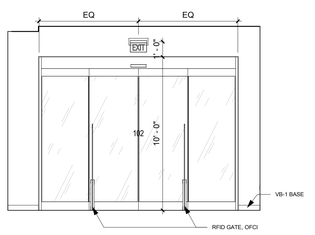
Revision | Date

OPN Project No.
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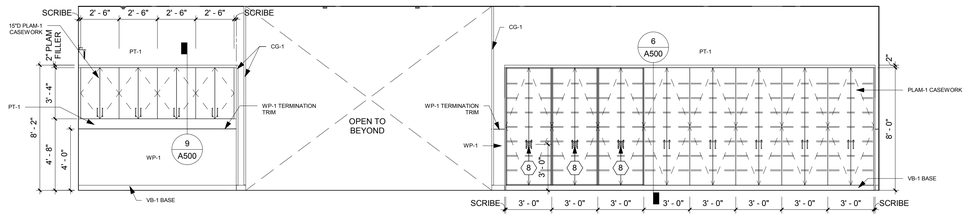
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Sheet Name
INTERIOR ELEVATIONS

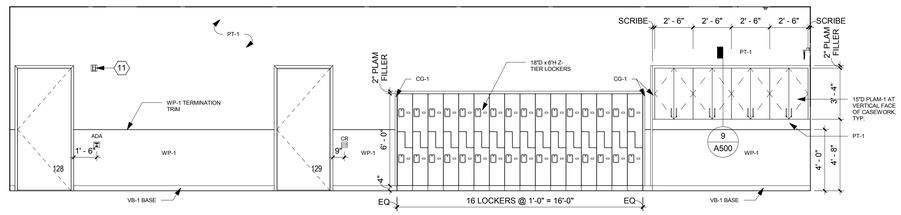
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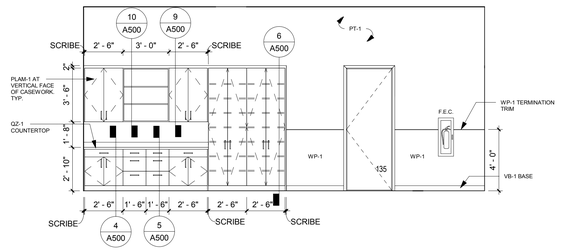
20 LOBBY - EAST
1/4" = 1'-0"



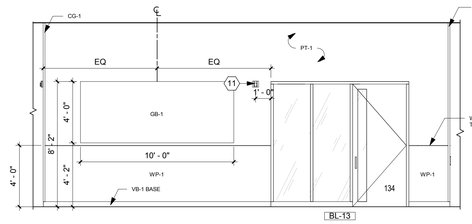
19 SHIPPING/RECEIVING - NORTH
1/4" = 1'-0"



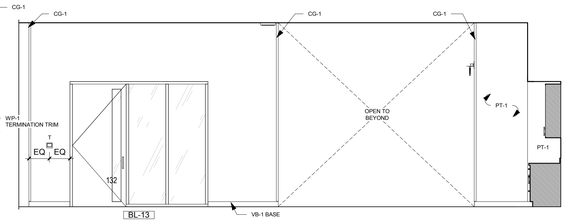
18 SHIPPING/RECEIVING - SOUTH
1/4" = 1'-0"



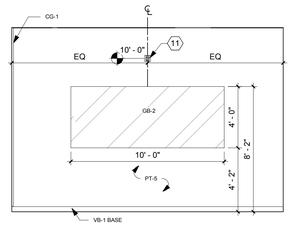
17 PROJECT WORK ROOM - NORTH
1/4" = 1'-0"



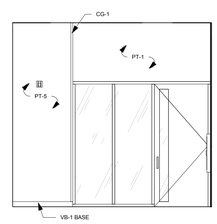
16 PROJECT WORK ROOM - EAST
1/4" = 1'-0"



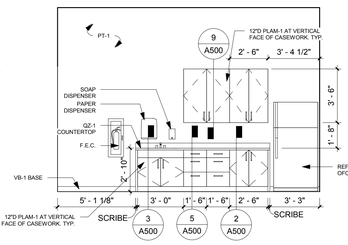
15 PROJECT WORK ROOM ISLAND - WEST
1/4" = 1'-0"



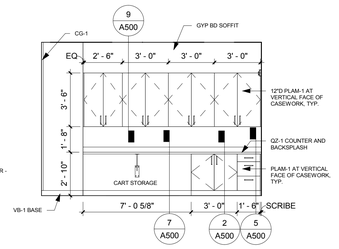
14 PROJECT WORK ROOM - SOUTH
1/4" = 1'-0"



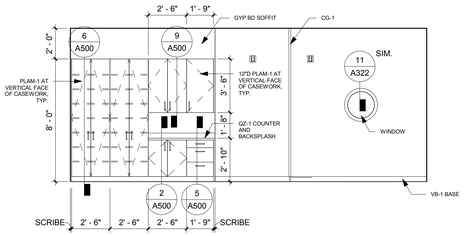
13 BREAK ROOM - EAST
1/4" = 1'-0"



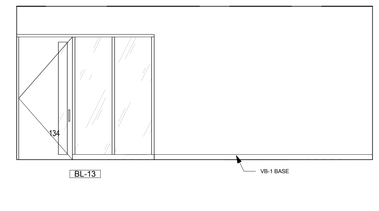
12 BREAK ROOM - SOUTH
1/4" = 1'-0"



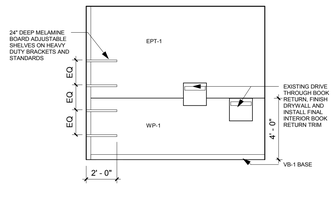
11 LIBRARIAN OFFICES - NORTH
1/4" = 1'-0"



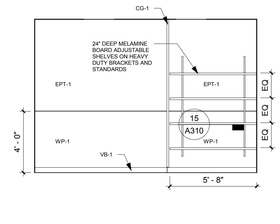
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1/4" = 1'-0"



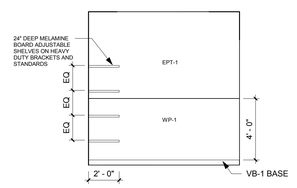
9 LIBRARIAN OFFICES - WEST
1/4" = 1'-0"



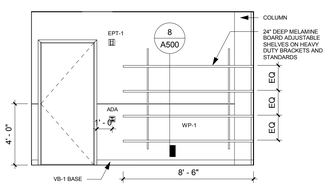
8 DRIVE-THRU BOOK RETURN - NORTH
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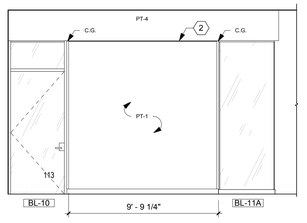
7 DRIVE-THRU BOOK RETURN - EAST
1/4" = 1'-0"



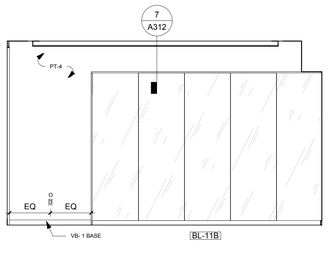
6 DRIVE-THRU BOOK RETURN - SOUTH
1/4" = 1'-0"



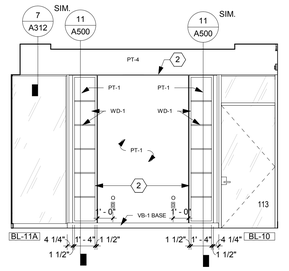
5 DRIVE-THRU BOOK RETURN - WEST
1/4" = 1'-0"



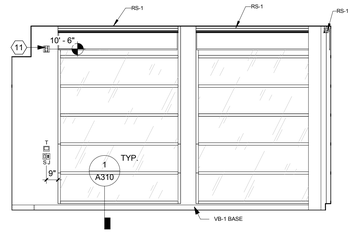
4 ADULT QUIET READING - ENTRY
1/4" = 1'-0"



3 ADULT QUIET READING - NORTH
1/4" = 1'-0"



2 ADULT QUIET READING - EAST
1/4" = 1'-0"



1 ADULT QUIET READING - SOUTH
1/4" = 1'-0"

GENERAL NOTES

1. COORDINATE FINAL LOCATION OF FIRE ALARMS, THERMOSTATS AND EMERGENCY LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO FINISH PLANS, FINISH SCHEDULE, AND FINISH SPECIFICATION FOR ADDITIONAL WALL FINISH INFORMATION.
3. REFER TO DOOR AND BORROWED LIGHT ELEVATIONS AND SHCEDULE FOR DOOR AND INTERIOR GLAZING INFORMATION.
4. DIMENSIONS ARE MEASURED FROM FACE-OF-FINISH TO FACE-OF-FINISH UNLESS NOTED OTHERWISE.
5. REFER TO SHEET A500 FOR ALL TYPICAL CASEWORK DETAILS.
6. ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
7. PROVIDE COUNTERTOP BRACKET SUPPORTS @ 3'-0" O.C.
8. FURNITURE SHOWN AS DASHED LINES SHOWN FOR REFERENCE ONLY.

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INT. ELEVATION KEYNOTES	
#	NOTE
1	FRAMED OPENING, WD-1
2	CONTINUOUS 1/2" ALUMINUM REVEAL, MITER CORNERS
3	ALUMINUM REVEAL/PICTURE HANGER
4	DIGITAL ROOM SCHEDULER, REFER TO TECHNOLOGY DRAWINGS
5	FRAMED OPENING, QZ-3
6	ROUND COATED FOAM FRAMED WINDOW. REFER TO DETAIL 11/A322
7	ROUND COATED FOAM CUBBY, REFER TO DETAIL 6/A312
8	PROVIDE OUTLET AT BACK OF STORAGE CABINET, REFER TO ELECTRICAL DRAWINGS
9	WALL MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
10	CEILING MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
11	FIRE ALARM NOTIFICATION, REFER TO ELECTRICAL DRAWINGS

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Key Plan

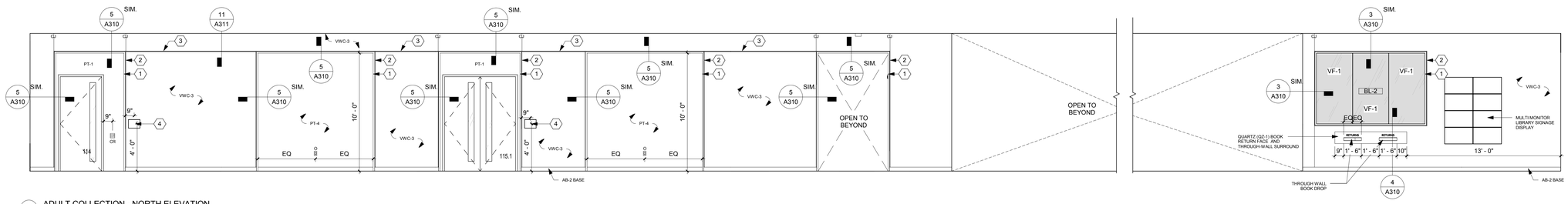
Revision Date

OPN Project No.
17609900

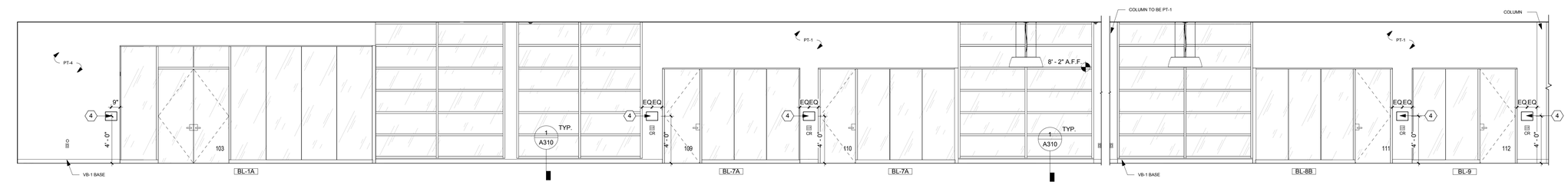
Sheet Issue Date
100% CONSTRUCTION DOCUMENTS 06/01/2018

Sheet Name
INTERIOR ELEVATIONS

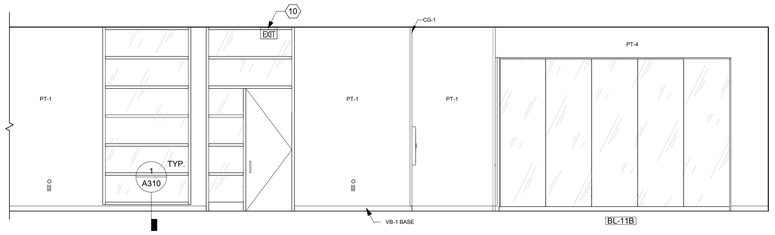
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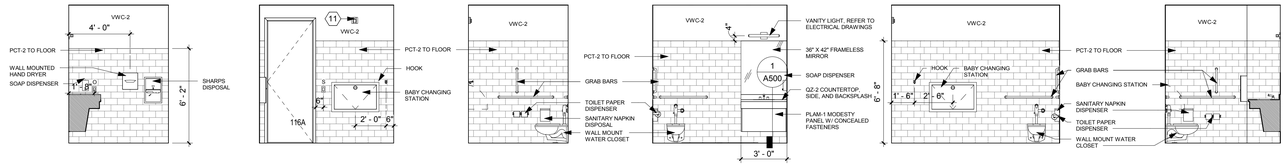
36 ADULT COLLECTION - NORTH ELEVATION
1/4" = 1'-0"



35 ADULT COLLECTION - SOUTH ELEVATION
1/4" = 1'-0"



34 ADULT COLLECTION - SOUTH ELEVATION CONTINUED
1/4" = 1'-0"



33 ADA TLT 116A - NORTH
1/4" = 1'-0"

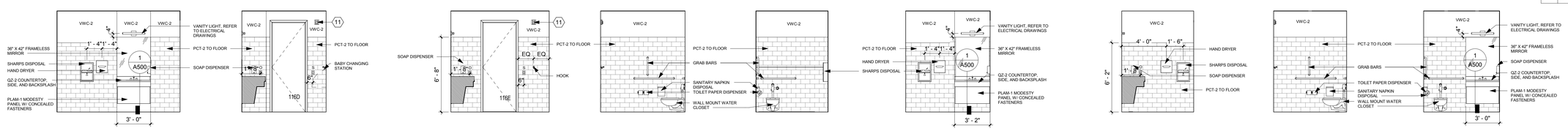
32 ADA TLT 116A - EAST
1/4" = 1'-0"

31 ADA TLT 116A - SOUTH
1/4" = 1'-0"

30 ADA TLT 116A - WEST
1/4" = 1'-0"

29 ADA TLT 116D - NORTH
1/4" = 1'-0"

28 ADA TLT 116D - EAST
1/4" = 1'-0"



27 ADA TLT 116D - SOUTH
1/4" = 1'-0"

26 ADA TLT 116D - WEST
1/4" = 1'-0"

25 TLT 116E - NORTH
1/4" = 1'-0"

24 TLT 116E - EAST
1/4" = 1'-0"

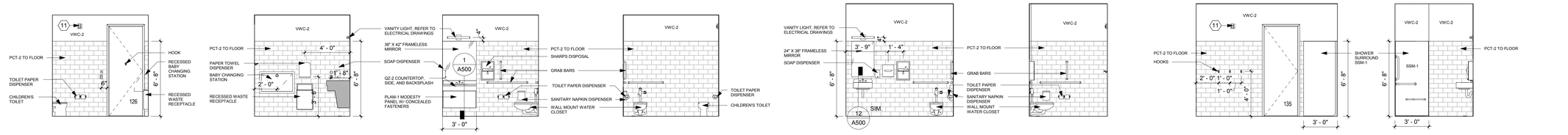
23 TLT 116E - SOUTH
1/4" = 1'-0"

22 TLT 116E - WEST
1/4" = 1'-0"

21 TLT 116B - NORTH
1/4" = 1'-0"

20 TLT 116B - SOUTH
1/4" = 1'-0"

19 TLT 116B - WEST
1/4" = 1'-0"



18 FAMILY RESTROOM 126 - NORTH
1/4" = 1'-0"

17 FAMILY RESTROOM 126 - EAST
1/4" = 1'-0"

16 FAMILY RESTROOM 126 - SOUTH
1/4" = 1'-0"

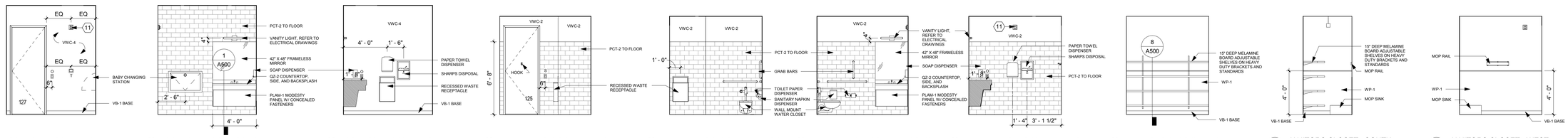
15 FAMILY RESTROOM 126 - WEST
1/4" = 1'-0"

14 ADA STAFF RESTROOM 135 - NORTH
1/4" = 1'-0"

13 ADA STAFF RESTROOM 135 - EAST
1/4" = 1'-0"

12 ADA STAFF RESTROOM 135 - SOUTH
1/4" = 1'-0"

11 ADA STAFF RESTROOM 135 - WEST
1/4" = 1'-0"



10 COMFORT ROOM - EAST
1/4" = 1'-0"

9 COMFORT ROOM - SOUTH
1/4" = 1'-0"

8 COMFORT ROOM - WEST
1/4" = 1'-0"

7 FAMILY RESTROOM 125 - NORTH
1/4" = 1'-0"

6 FAMILY RESTROOM 125 - EAST
1/4" = 1'-0"

5 FAMILY RESTROOM 125 - SOUTH
1/4" = 1'-0"

4 FAMILY RESTROOM 125 - WEST
1/4" = 1'-0"

3 JANITORS CLOSET - EAST
1/4" = 1'-0"

2 JANITORS CLOSET - SOUTH
1/4" = 1'-0"

1 JANITORS CLOSET - WEST
1/4" = 1'-0"

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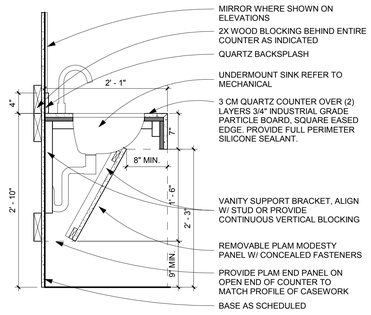
Revision | Date

OPN Project No.
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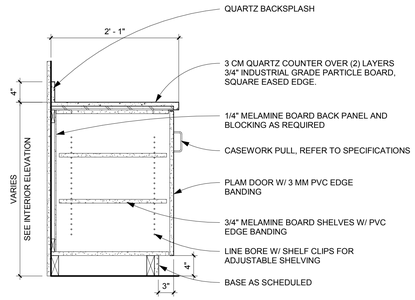
Sheet Issue Date
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Sheet Name
INTERIOR ELEVATIONS

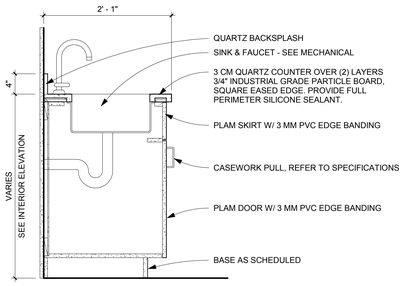
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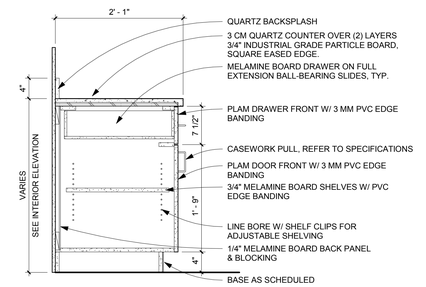
1 CASEWORK DETAIL - TYP. BASE CABINET
1" = 1'-0"



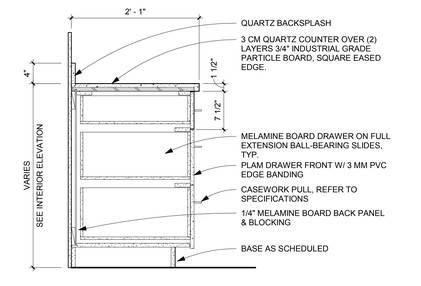
2 CASEWORK DETAIL - TYP. BASE CABINET
1" = 1'-0"



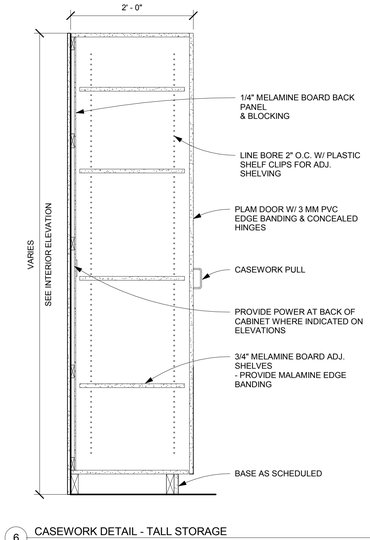
3 CASEWORK DETAIL - SINK BASE CABINET
1" = 1'-0"



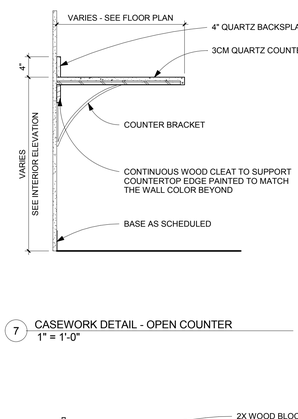
4 CASEWORK DETAIL - 3 DRAWER BASE
1" = 1'-0"



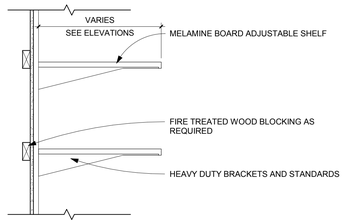
5 CASEWORK DETAIL - 3 DRAWER BASE
1" = 1'-0"



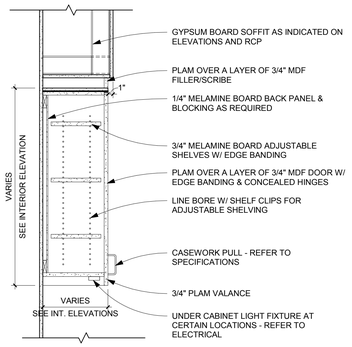
6 CASEWORK DETAIL - TALL STORAGE
1" = 1'-0"



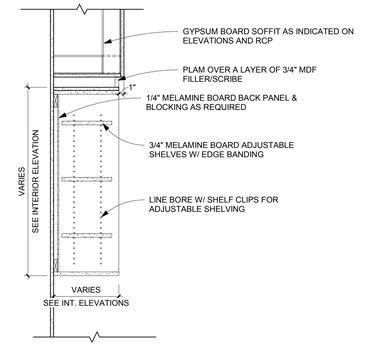
7 CASEWORK DETAIL - OPEN COUNTER
1" = 1'-0"



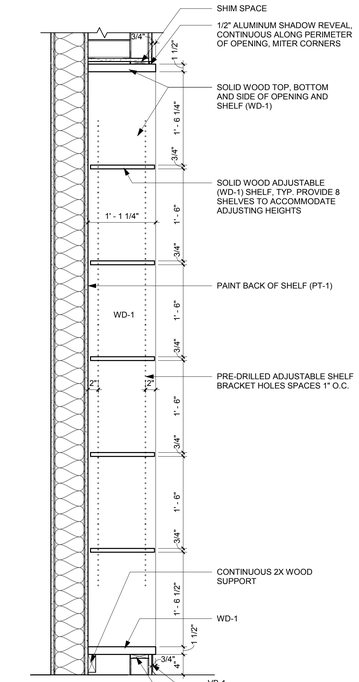
8 CASEWORK DETAIL - OPEN SHELVING
1" = 1'-0"



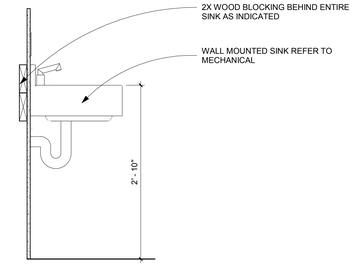
9 CASEWORK DETAIL - TYPICAL UPPERS
1" = 1'-0"



10 CASEWORK DETAIL - OPEN UPPER SHELVING
1" = 1'-0"



11 ADULT QUIET READING - BUILT-IN SHELVING
1" = 1'-0"



12 WALL MOUNTED SINK
1" = 1'-0"

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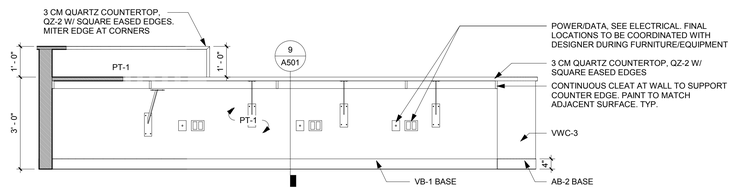
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100% CONSTRUCTION DOCUMENTS **06/01/2018**

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CASEWORK DETAILS

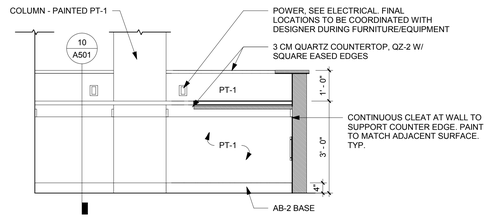
Sheet Number
A500

9 CIRCULATION DESK COUNTER - SECTION
3/4" = 1'-0"

10 CIRCULATION DESK TRANSACTION - SECTION
3/4" = 1'-0"



5 CIRCULATION DESK - SOUTHWEST ELEVATION
1/2" = 1'-0"

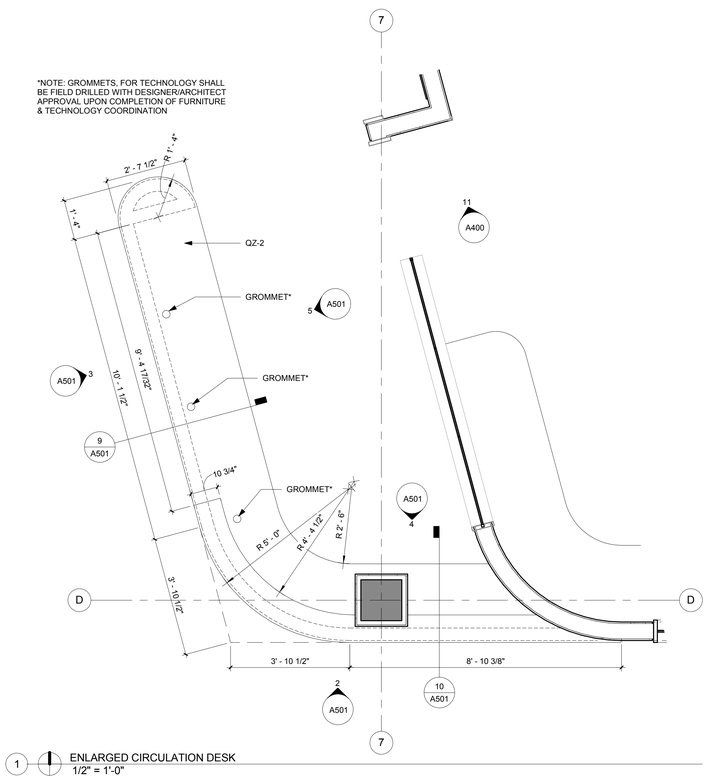


4 CIRCULATION DESK - SOUTH ELEVATION
1/2" = 1'-0"

3 CIRCULATION DESK - NORTHEAST ELEVATION
1/2" = 1'-0"

2 CIRCULATION DESK - NORTH ELEVATION
1/2" = 1'-0"

*NOTE: GROMMETS, FOR TECHNOLOGY SHALL BE FIELD DRILLED WITH DESIGNER/ARCHITECT APPROVAL UPON COMPLETION OF FURNITURE & TECHNOLOGY COORDINATION



1 ENLARGED CIRCULATION DESK
1/2" = 1'-0"

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Sheet Issue Date
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Sheet Name
CUSTOM CASEWORK DETAILS

Sheet Number
A501

MATERIALS LIST:

ACOUSTICAL CEILING TILE:

ACT-1: MANUFACTURER: ARMSTRONG
STYLE: OPTIMA
SIZE: 2' X 2'
GRID: 9/16" WHITE
EDGE PROFILE: SQUARE TEGULAR
COLOR: WHITE
PERIMETER TRIM: WHITE
APPLICATION: AS SCHEDULED AND AS INDICATED ON DRAWINGS

ACT-2: MANUFACTURER: ARMSTRONG
STYLE: OPTIMA
SIZE: 4' X 4'
GRID: 9/16" WHITE
EDGE PROFILE: SQUARE TEGULAR
COLOR: WHITE
PERIMETER TRIM: WHITE
APPLICATION: AS SCHEDULED AND AS INDICATED ON DRAWINGS

ACOUSTICAL WALL PANEL:

AWP-1: MANUFACTURER: NOVAWALL
STYLE: ECOTRACK
THICKNESS: 2"
SIZE: VARIES - SEE ELEVATIONS
EDGE PROFILE: WRAPPED SQUARE
APPLICATION: AS INDICATED ON DRAWINGS
FABRIC:
MANUFACTURER: CARNEGIE XOREL
STYLE: METEOR
COLOR: 765

ALUMINUM BASE:

AB-1: MANUFACTURER: FRY REGLET
STYLE: REVEAL BASE MWRB50400
FINISH: ANODIZED ALUMINUM - SATIN
SIZE: 1/2" DEPTH, 4" HEIGHT

AB-2: STYLE: STRAIGHT
FINISH: ANODIZED ALUMINUM - SATIN
SIZE: 14 GAUGE, 4" HEIGHT

CORNER GUARD:

CG-1: MANUFACTURER: INPRO
STYLE: 1 1/2" WING SURFACE MOUNT
16GA STAINLESS STEEL
HEIGHT: FULL HEIGHT OF GYPSUM BOARD CORNER AND AS INDICATED ON ELEVATIONS. CORNER GUARD TO START AT TOP OF WALL BASE
LOCATION: ALL OUTIDCE GYPSUM BOARD CORNERS
INSTALL: CEMENT ON (NO SCREWS)

CARPET:

CPT-1: MANUFACTURER: INTERFACE
STYLE: WW870
COLOR: CHARCOAL WEFT
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR
CONTACT: AMY SIMMONS 515.414.6231

CPT-2: MANUFACTURER: INTERFACE
STYLE: SUMMERHOUSE SHADES
COLOR: CHARCOAL
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-3: MANUFACTURER: INTERFACE
STYLE: ON LINE
COLOR: PEPPER
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-4: MANUFACTURER: INTERFACE
STYLE: SUMMERHOUSE BRIGHTS
COLOR: PAPRIKA / NATURAL
SIZE: 50CM X 50 CM
APPLICATION: AS SCHEDULED
INSTALLATION: NON-DIRECTIONAL

CPT-5: MANUFACTURER: INTERFACE
STYLE: WW880
COLOR: CHARCOAL LOOM
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-6: MANUFACTURER: INTERFACE
STYLE: WW870
COLOR: CHARCOAL WEFT
SIZE: 25CM X 1M
BACKING: CUSHIOBAC RENEW
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

DECORATIVE FELT PANEL:

DFP-1: MANUFACTURER: FILZFELT
STYLE: AKUSTIKA 10 WALL
COLOR: 312 LAGUNE
EDGE STYLE: WRAPPED
MOUNTING STYLE: INTERLOCKING MOUNTING SYSTEM
APPLICATION: STUDY ROOMS

GLASS BOARD:

GB-1: MANUFACTURER: CLARUS
STYLE: FLOAT
COLOR: CBC-100 PURE WHITE
SIZE: SEE ELEVATIONS
NOTE: MAGNETIC

GB-2: MANUFACTURER: CLARUS
STYLE: FLOAT
COLOR: TO MATCH PT-5
SIZE: SEE ELEVATION
NOTE: MAGNETIC

GLASS:

GL-1: MANUFACTURER: SEE SPECIFICATIONS
STYLE: TEMPERED
COLOR: CLEAR
THICKNESS: 3/8" TYPICAL, OTHER THICKNESSES AS REQUIRED FOR APPLICATION
SIZE: SEE ELEVATIONS

GROUT:

G-1: MANUFACTURER: BOSTIK TRU COLOR
COLOR: DELOREAN GRAY H160
JOINT THICKNESS: 1/8"
APPLICATION: TO BE USED WITH PCT-1

G-2: MANUFACTURER: BOSTIK TRU COLOR
COLOR: MISTY GRAY H144
JOINT THICKNESS: 1/8"
APPLICATION: TO BE USED WITH PCT-2

LINEAR ACOUSTIC WOOD CEILING:

LWC-1: MANUFACTURER: ARCHITECTURAL COMPONENTS GROUP, INC.
STYLE: LINEAR SERIES 2 (LO2)
FINISH: WD-1
APPLICATION: SUSPENENDED WOOD CEILING SYSTEM

PLASTIC LAMINATE:

PLAM-1MANUFACTURER: WILSONART
COLOR: GREY
FINISH: MATTE
APPLICATION: VERTICAL CASEWORK, MODESTY PANELS

PAINT - EPOXY:

EPT-1: MANUFACTURER: GLIDDEN
COLOR: TO MATCH PT-1
SHEEN: FLAT EPOXY
APPLICATION: JANITORIAL/STORAGE AREAS

EPT-2: MANUFACTURER: GLIDDEN
COLOR: TO MATCH PT-3
SHEEN: FLAT EPOXY
APPLICATION: READING NICHES

PAINT:

PT-1: MANUFACTURER: PPG
COLOR: SWIRLING SMOKE 1007-2
SHEEN: EGGSHELL @ WALLS, SEMI-GLOSS @ DOOR FRAMES
APPLICATION: FIELD, DOOR FRAMES

PT-2: MANUFACTURER: SHERWIN WILLIAMS
COLOR: EXTRA WHITE SW 7006
SHEEN: FLAT
APPLICATION: CEILING/SOFFIT

PT-3: MANUFACTURER: GLIDDEN
COLOR: BEAR RUN #10BG 46/112
SHEEN: EGGSHELL @ WALLS, FLAT @ CEILINGS
APPLICATION: BLUE ACCENT

PT-4: MANUFACTURER: GLIDDEN
COLOR: SALSA #10YR 14/348
SHEEN: EGGSHELL AT WALLS, FLAT AT CEILINGS
APPLICATION: RED ACCENT

PT-5: MANUFACTURER: SHERWIN WILLIAMS
COLOR: MATURE GRAPE
SHEEN: EGGSHELL
APPLICATION: PURPLE ACCENT

PORCELAIN/CERMAMIC TILE:

PCT-1: MANUFACTURER: DALTILE
STYLE: AMBASSADOR
COLOR: JET SETTER
SIZE: 12" X 24"
APPLICATION: FLOOR TILE
CONTACT: AMANDA BALHORN 402-981-7045

NOTE: PROVIDE WATERPROOFING MEMBRANE CONTINUOUS UNDER FLOOR AND WALL TILE

PCT-2: MANUFACTURER: ERGON
COLLECTION: TREND
STYLE: MAJOLICA
COLOR: WHITE
FINISH: GLOSS
SIZE: 12.25 CM X 25 CM
APPLICATION: RESTROOM WALL TILE
CONTACT: MICHAEL MONTORSI 630-539-4470

NOTE: PROVIDE SCHLUTER SYSTEMS, QUADEC, ANODIZED ALUMINUM AT TOP OF WAINSCOT AND AT ALL OUTSIDE CORNERS

PROVIDE WATERPROOFING MEMBRANE CONTINUOUS UNDER FLOOR AND WALL TILE

QUARTZ:

QZ-1: MANUFACTURER: WILSONART
COLOR: PAPER LANTERN Q6001
THICKNESS: 3CM AT COUNTERTOPS, 2CM AT OTHER APPLICATIONS
APPLICATION: SILLS @ EXTERIOR WINDOWS, CUSTOM FABRICATIONS, COUNTERTOPS - SEE ELEVATIONS

QZ-2: MANUFACTURER: ZODIAQ
COLOR: SNOWDRIFT
THICKNESS: 3CM
APPLICATION: COUNTERTOPS - SEE ELEVATIONS

QZ-3: MANUFACTURER: DIFINITI
COLOR: SILVER LAKE
THICKNESS: 2CM
APPLICATION: PLAY LAB TRIM DETAIL

RAISED ACCESS FLOOR FINISH:

RAF-1: MANUFACTURER: CAPRI
STYLE: MEDITERRA HOMOGENEOUS CORK
COLOR: DARK
THICKNESS: 5/16"
APPLICATION: CHILDREN'S PROGRAM ROOM, FAMILY STUDY ROOM, CREATOR SPACE, COMMUNITY ROOM
NOTE: TATE/KINGSPAN FACTORY LAMINATED CORK

RAF-2: MANUFACTURER: FORMICA
STYLE: HPL
COLOR: STONE GRAFIX
APPLICATION: IT ROOM
NOTE: TATE/KINGSPAN FACTORY LAMINATED HPL

RAF-3: UNFINISHED TATE/KINGSPAN RAISED ACCESS FLOOR TILE

RESILIENT FLOOR:

RF-1: MANUFACTURER: MANNINGTON
STYLE: BIOSPEC
COLOR: STONE GRAY
APPLICATION: JANITORS CLOSET
NOTE: TO BE INSTALLED IN FIELD OVER RAF SYSTEM.

RF-2: MANUFACTURER: FUJIMATS
STYLE: FUJI FLOOR
COLOR: GREY
THICKNESS: 9/16"
INSTALLATION: ASHLAR
APPLICATION: CHILDREN'S PROGRAM ROOM, PLAYLAB
NOTE: TO BE INSTALLED IN FIELD OVER RAF SYSTEM.

ROLLER SHADES:

RS-1: MANUFACTURER: LUTRON
SHADECLOTH: BASKETWEAVE
OPENESS FACTOR: 3%
COLOR: CHARCOAL
OPERATION METHOD: AUTOMATED
APPLICATION: SEE PLANS

RS-2: MANUFACTURER: LUTRON
STYLE: **DOUBLE ROLL**
OPERATION METHOD: AUTOMATED
APPLICATION: COMMUNITY ROOM

SHADECLOTH 1: BASKETWEAVE
OPENESS FACTOR: BLACKOUT
COLOR: CHARCOAL

SHADECLOTH 2: BASKETWEAVE
OPENESS FACTOR: 3%
COLOR: CHARCOAL

RS-3: MANUFACTURER: LUTRON
SHADECLOTH: BASKETWEAVE
OPENESS FACTOR: 3%
COLOR: CHARCOAL
OPERATION METHOD: MANUAL
APPLICATION: SEE PLANS

SOLID SURFACE:

SSM-1: MANUFACTURER: INPRO
STYLE: BIOPRISM
COLOR: BRIGHT WHITE P9011
THICKNESS: 1/4"
APPLICATION: SHOWER WALL PANELS

VINYL BASE:

VB-1: MANUFACTURER: JOHNSONITE
STYLE: 4" ROLLED GOODS ONLY
COLOR: GATEWAY
STRAIGHT @ CARPET, COVE @ HARD FLOORING

VINYL FILM:

VF-1: MANUFACTURER: 3M
STYLE: FASARA
COLOR: TBD FROM ALL FASARA STYLE SELECTIONS
APPLICATION: SEE ELEVATIONS FOR DETAILS AND DIMENSIONS

VINYL WALLCOVERING:

VWC-1: MANUFACTURER: DL COUCH
PRODUCT: DIGITAL IMAGINARIUM
COLOR: CUSTOM DESIGN
TEXTURE/PATTERN: MYSTICAL
APPLICATION: CUSTOM DIGITAL WALLCOVERING AT LOCATIONS INDICATED ON DRAWINGS

NOTE: DRYWALL TO HAVE LEVEL 5 FINISH. COORDINATE GRAPHIC WITH DESIGNER. DESIGNER WILL PROVIDE ALL CUSTOM DIGITAL FILES FOR PRODUCTION

VWC-2: MANUFACTURER: DL COUCH
STYLE: BEACON HILL
COLOR: PALE OAK
APPLICATION: RESTROOMS

VWC-3: MANUFACTURER: CARNEGIE
STYLE: XOREL
PATTERN: PRISM
COLOR: 161
APPLICATION: CORE ACCENT WALLS

VWC-4: MANUFACTURER: WOLF GORDON
STYLE: TIVOLI
COLOR: NECTAR
APPLICATION: NEW MOM'S ROOM

WALL PROTECTION:

WP-1: MANUFACTURER: INPRO
STYLE: PALLADIUM RIGID SHEET
COLOR: TAUPE 0113
SIZE: 4' X 8'
APPLICATION: PROGRAM ROOM, STORAGE, AND JANITORIAL
NOTES: PROVIDE COLOR MATCHING INSIDE, OUTSIDE, PANEL DIVIDER, AND TERMINATION TRIM

WALK OFF CARPET TILE:

WOC-1:MANUFACTURER: INTERFACE
STYLE: STEP REPEAT
PATTERN: SR899
COLOR: IRON
SIZE: 50CM X 50CM
APPLICATION: ENTRY VESTIBULE

WOOD:

WD-1: SPECIES: URBAN ASH
SOURCE: WUDEWARD
SIZE: AS INDICATED ON DRAWINGS
STAIN: TO MATCH DESIGNERS SAMPLE
APPLICATION: CEILING, WOOD WALL CLADDING, INTERIOR DOOR AND WINDOW JAMBS
CONTACT: DWAYNE SPERBER 262-442-4654

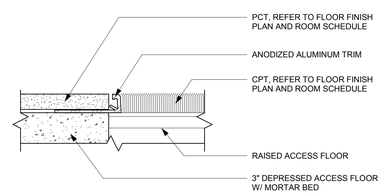
WD-2 SPECIES: ASH
CUT: PLAIN SLICE
STAIN: TO MATCH DESIGNERS SAMPLE
APPLICATION: WOOD DOORS

ROOM FINISH SCHEDULE

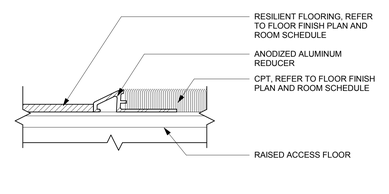
ROOM #	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILING MATERIAL	CEILING FINISH	REMARK
102	LOBBY	WOC-1/CPT-3	VB-1/AB-2	VWC-3	PT-1	PT-4	--	ACT-2/ LWC-1	--/--	1, 2, 3, 4
103	PINNEY STUDIO	RAF-1	VB-1	PT-4	PT-1	PT-1	PT-4	ACP-1	--	2, 6
103A	STUDIO STORAGE	RAF-1	VB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACP-1	--	
104	MECH CLOSET	RAF-3	VB-1	EPT-1	EPT-1	EPT-1	EPT-1	OTS	PT-2	
105	SORTING / CIRC. WORK	CPT-6	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1	PT-1	ACT-1	--	5
106	CIRCULATION	CPT-1, 2, 3, 5	AB-2	--	VWC-3	--	--	LWC-1	--	1
107	HOLDS / BUSINESS CENTER	CPT-1, 2, 3, 5	AB-2	--	PT-1/VWC-3	--	--	LWC-1/ GWB	--/ PT-2	1, 3, 6
108	ADULT FICTION/NON-FICTION	CPT-1, 2, 3, 4, 5	VB-1/AB-1, 2	PT-1, 4/VWC-3	PT-4/VWC-3	PT-1, 4	PT-1, 4/VWC-3/DFP-1, 3	ACT-2/ LWC-1	--/--	1, 2, 3, 4, 6, 9
109	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4
110	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1/DFP-1	PT-1	PT-1	ACT-1	--	1, 2, 4
111	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4
112	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1/DFP-1	PT-1	PT-1	ACT-1	--	1, 2, 4
113	ADULT QUIET READING	CPT-1, 2, 3, 5	VB-1	PT-4	PT-1/PT-4	PT-1	PT-1	ACT-1/LWC-1/GWB	--/--/PT-2	1, 2, 3
114	COMMUNITY ROOM 1	CPT-1, 2, 4, 5	VB-1	PT-1/WP-1	--	PT-1/WP-1	PT-1	ACT-1	--	1, 2, 5
114A	STORAGE	CPT-1, 2, 5	VB-1	PT-1/ WP-1	PT-1/ WP-1	PT-1/ WP-1	PT-1/ WP-1	ACT-1	--	1
115	COMMUNITY ROOM 2	CPT-1, 2, 4, 5	VB-1	PT-1/ WP-1	PT-1	PT-1/ WP-1	--	ACT-1	--	1, 2, 5, 6
115A	AV CLOSET	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	GWB	PT-2	1
116	PUBLIC RESTROOM CORRIDOR	PCT-1	PCT-1	PT-1	PCT-2/PT-1	PT-1	PT-1	ACT-1/GWB	--/PT-2	2
116A	ADA TLT	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
116B	TLT	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
116C	TLT	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
116D	ADA TLT	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
116E	ADA TLT	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
116F	JANITORS CLOSET	RF-1	VB-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	OTS	PT-2	2
120	SCHOOL AGED CHILDREN'S COLLECTION	CPT-1, 2, 3, 4, 5	VB-1/AB-2	PT-1	PT-1	PT-1/VWC-3	--	ACT-2/LWC-1	--/--	1, 2, 3, 4, 7
121	CHILDREN'S COLLECTION	CPT-1, 2, 3, 5/WOM-1	VB-1	PT-1	--	PT-1	--	ACT-2/LWC-1	--/--	1, 2, 3
122	PLAYLAB	RF-2	VB-1/AB-2	PT-1/WD-1	--	PT-1/VWC-3	PT-1/VWC-1/WD-1	ACT-2/LWC-1	--/--	1, 2, 3, 4
122A	READING NICHE	RF-2	VB-1	EPT-2	EPT-2	--	EPT-2	GWB	EPT-2	8
122B	READING NICHE	RF-2	VB-1	EPT-2	EPT-2	--	EPT-2	GWB	EPT-2	8
123	CHILDREN'S PROGRAM ROOM	RF-2	VB-1/AB-1	PT-1	PT-1	PT-1/WD-1	PT-1/DFP-2	ACT-1	--	2, 4, 6
123A	CHILDREN'S PROGRAM STORAGE	RAF-1	VB-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	ACT-1	--	
124	FAMILY STUDY ROOM	RAF-1	VB-1	PT-1	PT-1	PT-5	PT-1	ACT-1	--	2
125	ADA FAMILY RESTROOM	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
126	ADA FAMILY RESTROOM	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
127	COMFORT ROOM	RAF-1	VB-1/PCT-2	VWC-4	VWC-4	PCT-2/VWC-4	VWC-4	GWB	PT-2	2, 4
128	SHIPPING/ RECEIVING	WOC-1	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	ACT-1	--	1, 2
129	IT ROOM	RAF-2	VB-1	PT-1	PT-1	PT-1	PT-1	OTS	PT-2	10
130	PROJECT WORK ROOM	WOC-1	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	PT-1, 5	ACT-1	--	1, 2, 6
131	STAFF OPEN OFFICE	WOC-1	VB-1	PT-1	--	PT-5	PT-1	ACT-1	--	1, 2, 6
132	BREAK ROOM	RAF-1	VB-1	PT-5	PT-1, 5	PT-1	PT-1	ACT-1	--	2
133	SUPERVISOR'S OFFICE	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	--	1
134	LIBRARIAN OFFICES	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	--	1
135	ADA STAFF RESTROOM	PCT-1	PCT-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	PCT-2/VWC-2	GWB	PT-2	2
136	DRIVE-THRU BOOK RETURN	WOC-1	VB-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	ACT-1	--	1

ROOM FINISH SCHEDULE REMARKS

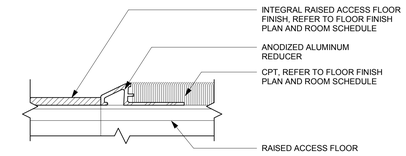
1. MULTIPLE FLOOR FINISHES, REFER TO FLOOR FINISH PLANS FOR ADDITIONAL INFORMATION.
2. MULTIPLE WALL FINISHES, REFER TO FLOOR FINISH PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3. MULTIPLE CEILING FINISHES, REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION
4. MULTIPLE BASE FINISHES, REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
5. ROOM TO RECEIVE ACOUSTICAL WALL PANEL (AWP). SEE ELEVATIONS FOR DETAILS.
6. ROOM TO RECEIVE MAGNETIC BACKPAINTED GLASS BOARD(S) (GB). SEE ELEVATIONS FOR DETAILS.
7. ROOM TO RECIEVE WALL MOUNTED LIGHTBLOCKS SHELVING INSTALLATION. SEE ELEVATIONS FOR DETAILS.
8. ROOM TO HAVE RECESSED WOOD CUBBIES. SEE ELEVATIONS/SECTIONS FOR DETAILS.
9. WALL TO HAVE RECESSED PICTURE RAIL. SEE ELEVATIONS FOR DETAILS.
10. ALL WALLS TO BE 3/4" FIRE RETARDANT AC PLYWOOD FROM 4" A.F.F TO 8'-0" A.F.F., PAINT TO MATCH WALL.



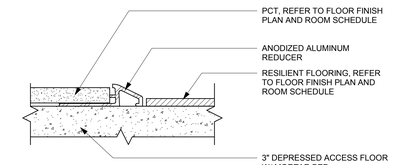
2 TYP. CARPET TO PORCELAIN TILE TRANSITION DETAIL



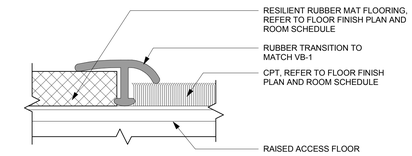
3 TYP. CARPET TO RESILIENT TRANSITION DETAIL



4 TYP. CARPET TO INTEGRAL RAISED FLOOR FINISH



5 TYP. PORCELAIN TILE TO RESILIENT TRANSITION DETAIL



6 TYP. CARPET TO RESILIENT RUBBER MAT TRANSITION DETAIL

ROOM FINISH NOTES

1. START FULL WALL TILE AS SHOWN
2. START FULL FLOOR TILE AS SHOWN
3. REFER TO SHEET AG002 FOR TYPICAL MOUNTING HEIGHTS.
4. REFER TO INTERIOR ELEVATIONS AND FINISH FLOOR PLAN FOR ADDITIONAL FINISH INFORMATION.
5. ALL PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH THE COLOR OF THE WALL IN WHICH THEY OCCUR U.N.O
6. ALL EXPOSED DRYWALL TO RECEIVE PAINT UNLESS NOTED OTHERWISE.
7. EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS U.N.O.
8. PROVIDE FLOORING TRANSITION STRIPS AT FLOOR MATERIAL CHANGES. COORDINATE FLOORING TRANSITION MATERIAL, PROFILE, AND COLOR WITH DESIGNER PRIOR TO INSTALLATION.
9. PAINT ALL INTERIOR MISCELLANEOUS METAL GRILLES, LOUVERS ACCESS PANELS, PIPES AND CONDUIT EXPOSED TO VIEW TO MATCH THE WALLS IN WHICH THEY OCCUR U.N.O.
10. ALL COLUMNS TO BE PAINTED PT-1 U.N.O.

FINISH ABBREVIATION LEGEND

ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACM	ALUMINUM COMPOSITE METAL CEILING PANEL
AB	ALUMINUM BASE
CPT	CARPET
CRK	CORK
CG	CORNER GUARD
DFP	DECORATIVE FELT PANEL
GYP	GYPSUM
EPT	EPOXY PAINT
EPF	EPOXY FLOORING
FRP	FIBERGLASS REINFORCED PLASTIC
GB	GLASS BOARDS
G	GROUT
LVT	LUXURY VINYL TILE
OTS	OPEN TO STRUCTURE
PCT	PORCELAIN CERAMIC TILE
PT	PAINT
PLAM	PLASTIC LAMINATE
QZ	QUARTZ
RAFF	RAISED ACCESS FLOOR FINISH
RES	RESIN
RF	RESILEINT FLOORING
RS	ROLLER SHADE
RUB	RUBBER
SSM	SOLID SURFACE MATERIAL
TP	TOILET PARTITIONS
TS	FLOOR TRANSITION
VB	VINYL BASE
VWC	VINYL WALL COVERING
WB	WALL BASE
WD	WOOD
WOD	WALK OFF CARPET
WP	WALL PROTECTION
WT	WINDOW TREATMENT

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Key Plan

Revision Date

OPN Project No.
17609000

Sheet Issue Date
100% CONSTRUCTION DOCUMENTS 06/01/2018

Sheet Name
ROOM FINISH SCHEDULE AND SPECIFICATION

Sheet Number
A600

DOOR SCHEDULE REMARKS

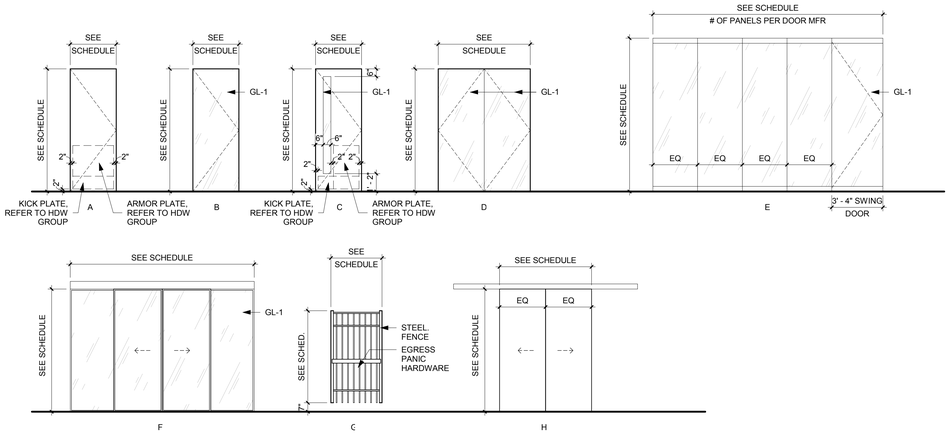
1. BORROWED LIGHT ELEVATION BL-1A.
2. BORROWED LIGHT ELEVATION BL-4
3. BORROWED LIGHT ELEVATION BL-7A
4. BORROWED LIGHT ELEVATION BL-8B
5. BORROWED LIGHT ELEVATION BL-9
6. BORROWED LIGHT ELEVATION BL-10
7. BORROWED LIGHT ELEVATION BL-12
8. BORROWED LIGHT ELEVATION BL-13
9. PROVIDE 1/2" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER
10. PROVIDE 3/4" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER
11. ACOUSTIC SOUND RATED DOOR
12. EXTEND TRACK/FASCIA ACROSS ENTIRE WALL. REFER TO ELEVATION FOR EXTENTS.
13. GLASS BOARD GB-1 TO BE ADHERED TO EACH DOOR LEAF. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
14. VF-1 APPLIED TO DOOR GLAZING

DOOR SCHEDULE NOTES

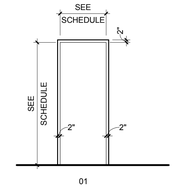
1. SEE FRAME PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONAL SIZES WITH MATERIALS OF FRAMES.
2. PREPARE DOOR AND FRAME FOR PAINT - BONDO DENTS AND SAND SCRATCHES SMOOTH.
3. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO MANUFACTURING. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING.

DOOR SCHEDULE

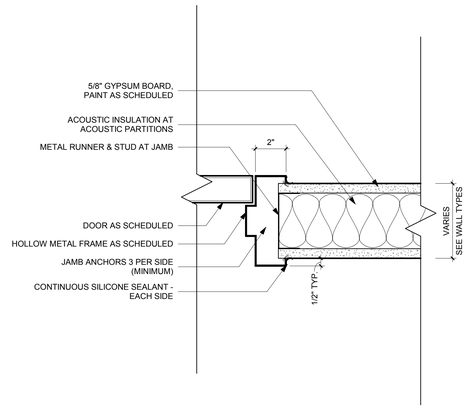
DOOR NUMBER	ROOM NAME	PANEL						FRAME			FIRE RATING	HARDWARE GROUP	REMARKS
		PANEL QUANTITY	PANEL TYPE	WIDTH	HEIGHT	PANEL MATERIAL	PANEL FINISH	FRAME TYPE	MATERIAL	FINISH			
102	LOBBY	1	F	13' - 0"	10' - 0"	GL-1		PER MFR	ALUM	CLEAR ANOD		2	
103	PINNEY STUDIO	1	D	6' - 0"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	1
103A	STUDIO STORAGE	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		6	
104	MECH CLOSET	1	A	3' - 6"	8' - 0"	WD-2	PT-1	01	HM	PT-1		1	11
105	SORTING / CIRC. WORK	1	A	3' - 6"	8' - 0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		17	2,15
109	STUDY ROOM	1	B	3' - 0"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10
110	STUDY ROOM	1	B	3' - 0"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10
111	STUDY ROOM	1	B	3' - 0"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	4, 10
112	STUDY ROOM	1	B	3' - 0"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	5, 10
113	ADULT QUIET READING	1	B	3' - 6"	8' - 0"	GL-1		REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		2	6
114	COMMUNITY ROOM 1	1	C	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		18	
114A.1	STORAGE	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		4	
114A.2	STORAGE	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		4	
115.1	COMMUNITY ROOM 2	2	C	3' - 0"	8' - 0"	WD	STN	01	HM	PT-1		19	
115.2	COMMUNITY ROOM 2	1	C	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		20	
115A	AV CLOSET	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		6	
116A	ADA TLT	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	9
116B	TLT	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	9
116C	TLT	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	9
116D	ADA TLT	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	9
116E	ADA TLT	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	9
116F	JANITORS CLOSET	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		21	9
123.1	CHILDREN'S PROGRAM ROOM	1	E	16' - 0"	10' - 0"	GL-1		PER MFR	ALUM	CLEAR ANOD		5	
123.2	CHILDREN'S PROGRAM ROOM	2	H	6' - 0"	8' - 2"	WD-2	PT-1	SLIDING DOOR, REFER TO HARDWARE SCHEDULE	ALUM	CLEAR ANOD		9	12, 13
123A	CHILDREN'S PROGRAM STORAGE	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		11	
124	FAMILY STUDY ROOM	1	C	3' - 0"	8' - 0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		10	5, 10
125	ADA FAMILY RESTROOM	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	10
126	ADA FAMILY RESTROOM	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		7	10
127	COMFORT ROOM	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		24	10
128	SHIPPING/ RECEIVING	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		22	
129	IT ROOM	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1		23	
132	BREAK ROOM	1	A	3' - 6"	8' - 0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7
133	SUPERVISOR'S OFFICE	1	C	3' - 0"	8' - 0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	8
134	LIBRARIAN OFFICES	1	A	3' - 6"	8' - 0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7
135	ADA STAFF RESTROOM	1	A	3' - 0"	8' - 0"	WD-2	STN	01	HM	PT-1		8	10
136	DRIVE-THRU BOOK RETURN	1	A	3' - 6"	8' - 0"	WD-2	STN	01	HM	PT-1	60-MIN	12	
EX01	PINNEY STUDIO	1	EXISTING	3' - 0"	8' - 0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		16	
EX02	CHILDREN'S COLLECTION	1	EXISTING	3' - 6"	8' - 0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		13	
EX03.1	NORTH GARDEN/ PATIO	1	G	3' - 6"	6' - 2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14	
EX03.2	NORTH GARDEN/ PATIO	1	G	3' - 6"	6' - 2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14	
EX04	SHIPPING/ RECEIVING	1	EXISTING	4' - 0"	7' - 0"	HM	PT-1	EXISTING	HM	PT-1		13	



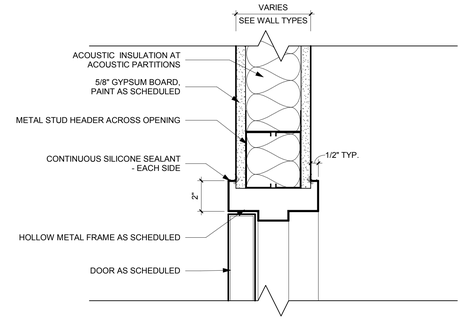
2 DOOR PANEL TYPES



1 DOOR FRAME ELEVATIONS



3 TYPICAL H.M. FRAME JAMB
3" = 1'-0"



4 TYPICAL H.M. FRAME HEAD
3" = 1'-0"

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Key Plan

Revision Date

OPN Project No.
17609000

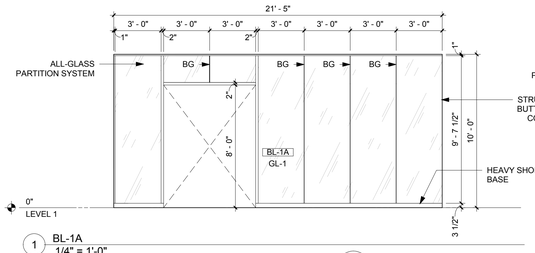
Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name
DOOR SCHEDULE AND ELEVATIONS

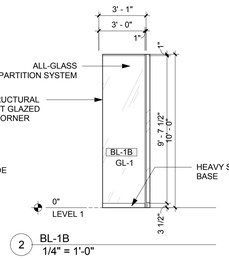
Sheet Number
A601

GENERAL NOTES

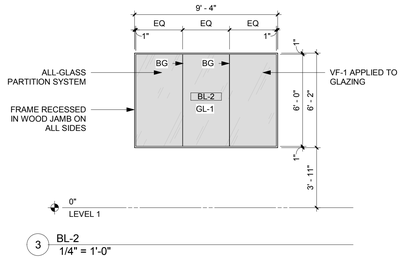
1. AVANTI SLOARE FRAMELESS GLAZING SYSTEM BASIS OF DESIGN FOR ALL ALUMINUM GLAZING PARTITIONS.
2. BG = STRUCTURAL BUTT GLAZE
3. REFER TO DOOR SCHEDULE ON A600 FOR ALL DOOR TYPE INTEGRATION.



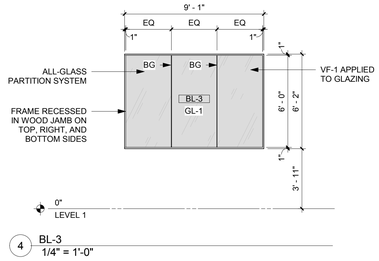
1 BL-1A
1/4" = 1'-0"



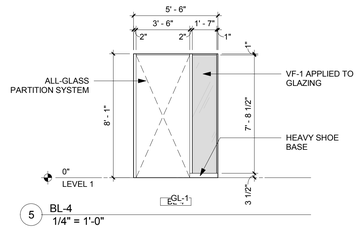
2 BL-1B
1/4" = 1'-0"



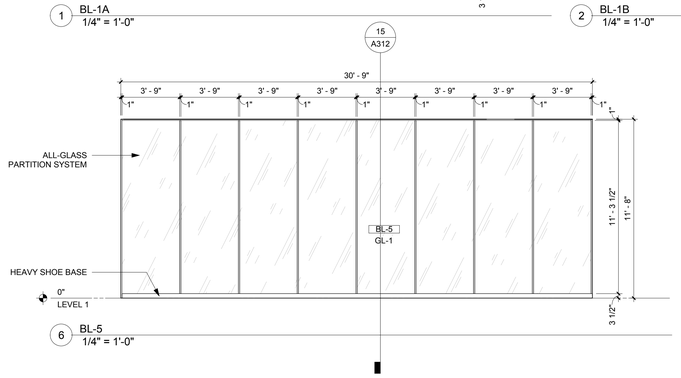
3 BL-2
1/4" = 1'-0"



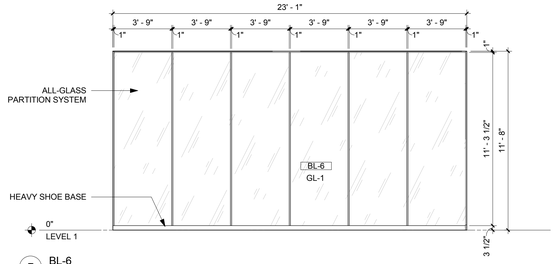
4 BL-3
1/4" = 1'-0"



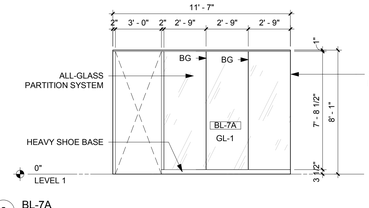
5 BL-4
1/4" = 1'-0"



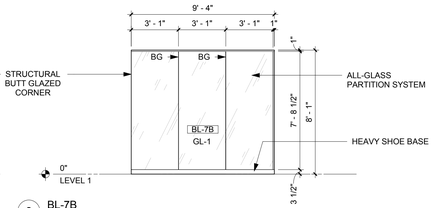
6 BL-5
1/4" = 1'-0"



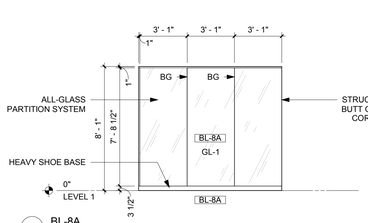
7 BL-6
1/4" = 1'-0"



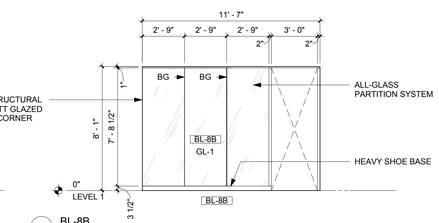
8 BL-7A
1/4" = 1'-0"



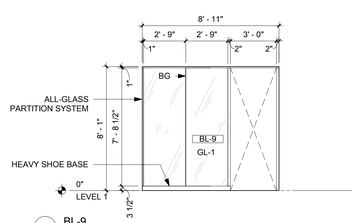
9 BL-7B
1/4" = 1'-0"



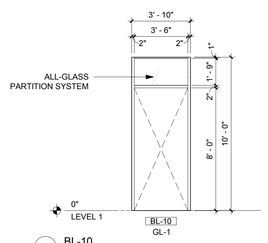
10 BL-8A
1/4" = 1'-0"



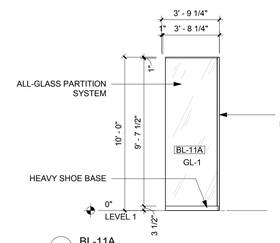
11 BL-8B
1/4" = 1'-0"



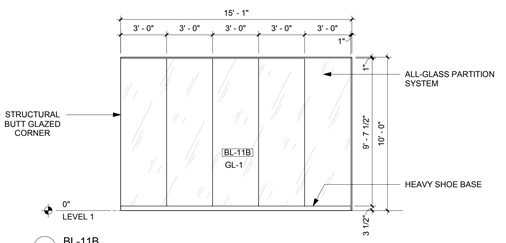
12 BL-9
1/4" = 1'-0"



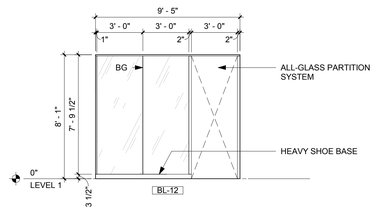
13 BL-10
1/4" = 1'-0"



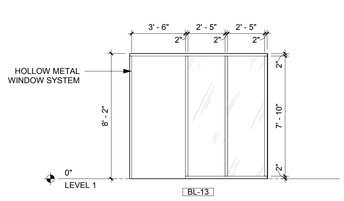
14 BL-11A
1/4" = 1'-0"



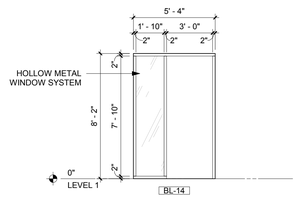
15 BL-11B
1/4" = 1'-0"



16 BL-12



17 BL-13
1/4" = 1'-0"



18 BL-14
1/4" = 1'-0"

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Revision | Date

OPN Project No.
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Sheet Name
BORROWED LIGHT ELEVATIONS

Sheet Number
A602



LIBRARY ENTRY



PINNEY STUDIO



CIRCULATION DESK AND HOLDS



CIRCULATION, HOLDS, AND MEDIA



ADULT COLLECTION



STUDY ROOMS



READING/STUDY AREA



QUIET READING ROOM



QUIET READING ROOM

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Sheet Name
3D PERSPECTIVES - FOR REFERENCE ONLY

Sheet Number
A700



COMMUNITY ROOM



EAST VIEW FROM REFERENCE DESK



CHILDREN'S COLLECTION ENTRY



CHILDREN'S COLLECTION FROM PLAYLAB



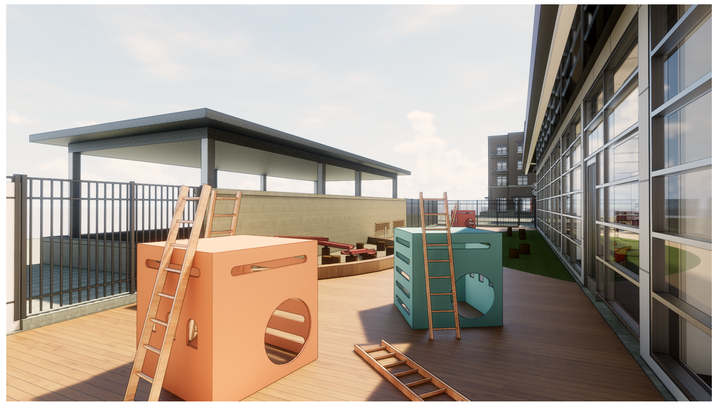
PLAYLAB



PLAYLAB



CHILDREN'S PROGRAM ROOM



GARDEN/ TERRACE



GARDEN/ TERRACE

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Sheet Name
3D PERSPECTIVES - FOR REFERENCE ONLY

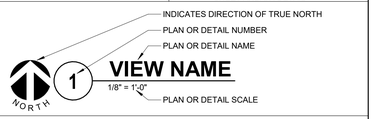
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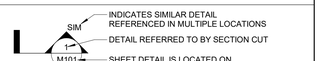
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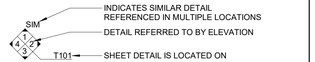
VIEW KEY

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

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

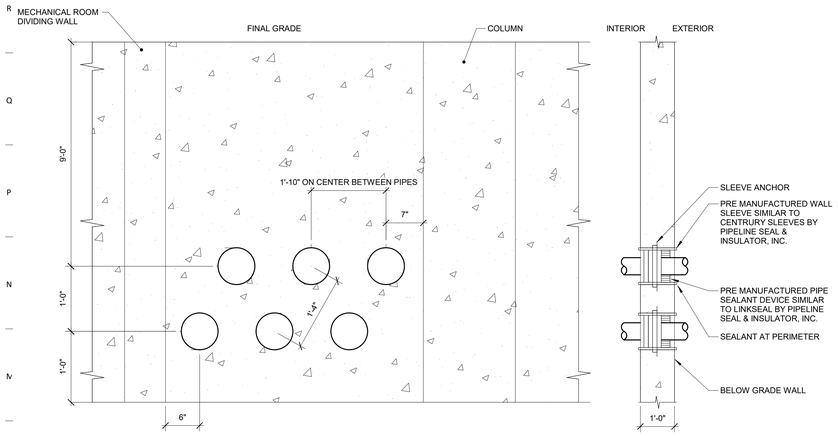
1 HOUR FIRE BARRIER	— — —

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MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—GWR—	GLYCOL WATER RETURN
—GWS—	GLYCOL WATER SUPPLY
——⊐	PIPE CAP

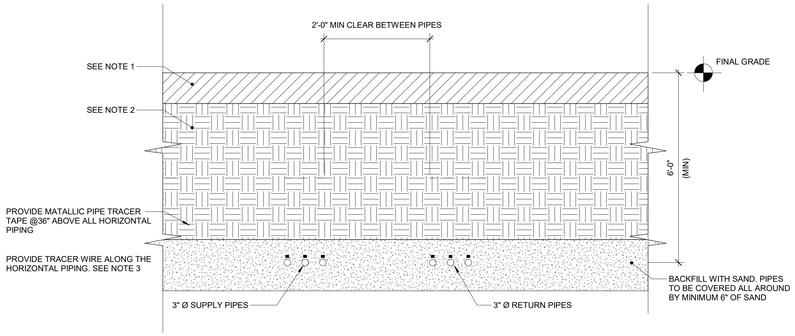


2 GEOTHERMAL PIPE ENTRY DETAIL(FOR REFERENCE ONLY)

NO SCALE

NOTES:

1. LINK SEAL : LS-300-S-316
2. SLEEVE : CS-5-12
3. LINK SEALS AND SLEEVES ARE EXISTING THAT WERE INSTALLED BY DEVELOPER.



3 GEO PIPE MAIN CIRCUIT TRENCH DETAIL

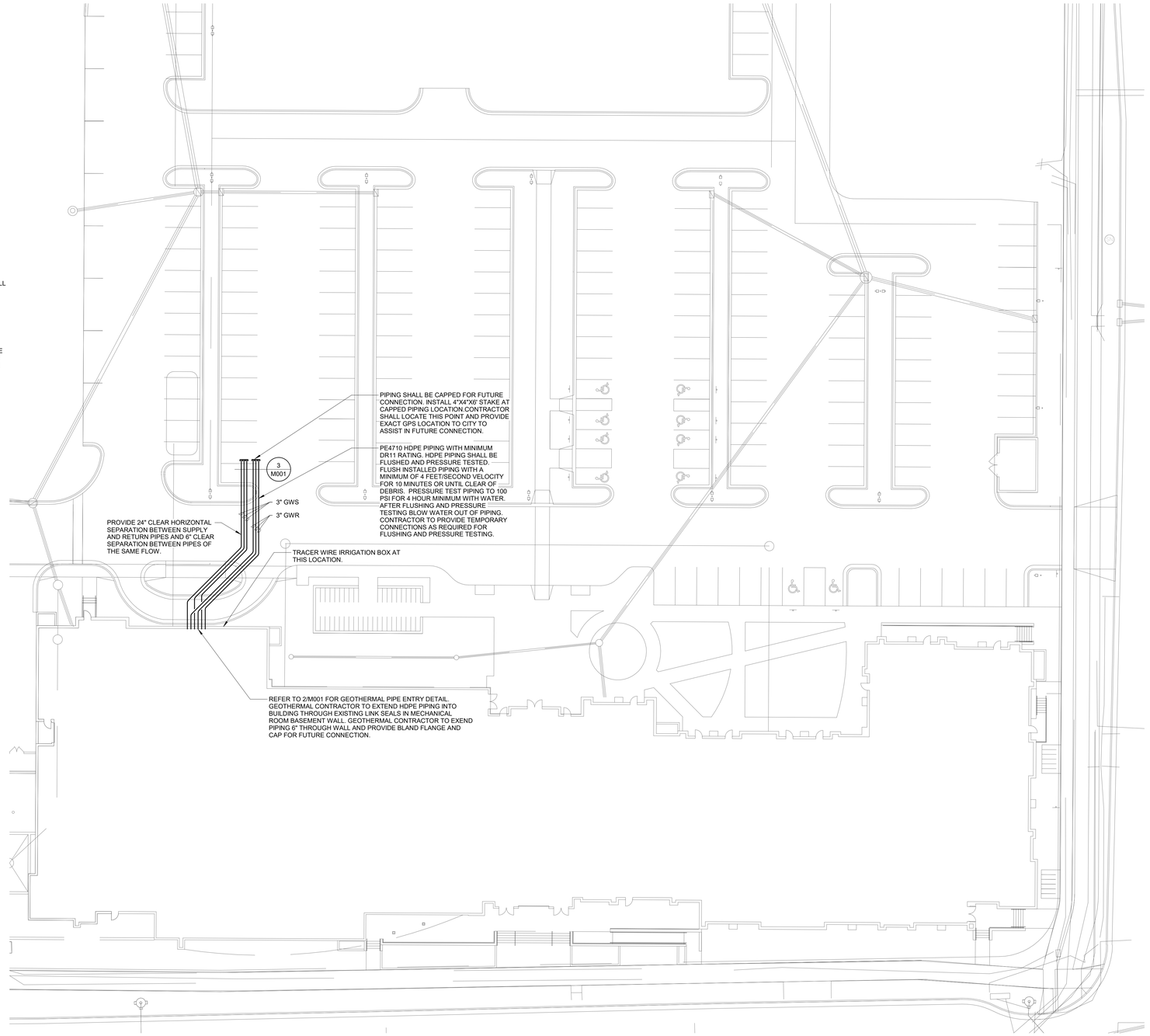
NO SCALE

NOTES:

1. COORDINATE FINAL GRADE WITH DEVELOPER. PAVEMENT PER DEVELOPERS REQUIREMENTS.
2. BACKFILL WITH STRUCTURAL FILL TO ROUGH GRADE FOR ALL AREAS PER DEVELOPERS REQUIREMENTS. COMPACT TO 95%.
3. TRACER WIRE TO BE TERMINATED AT ABOVE- FINAL GRADE ACCESSIBLE LOCATION NEAR PIPE ENTRY POINT. BURIED IRRIGATION BOX OR EQUIVALENT. COORDINATE WITH DEVELOPER REQUIREMENTS.

GENERAL NOTES :

1. ALL EXTERIOR GWS/GWR PIPING SHALL HAVE AT LEAST 6'-0" OF COVER.



1 SITE PLAN - PHASE 1 - MECHANICAL

1" = 20'-0"

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Key Plan

Revision Date

OPN Project No.
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Sheet Issue Date
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Sheet Name
SITE PLAN - PHASE 1 - MECHANICAL

Sheet Number
M001

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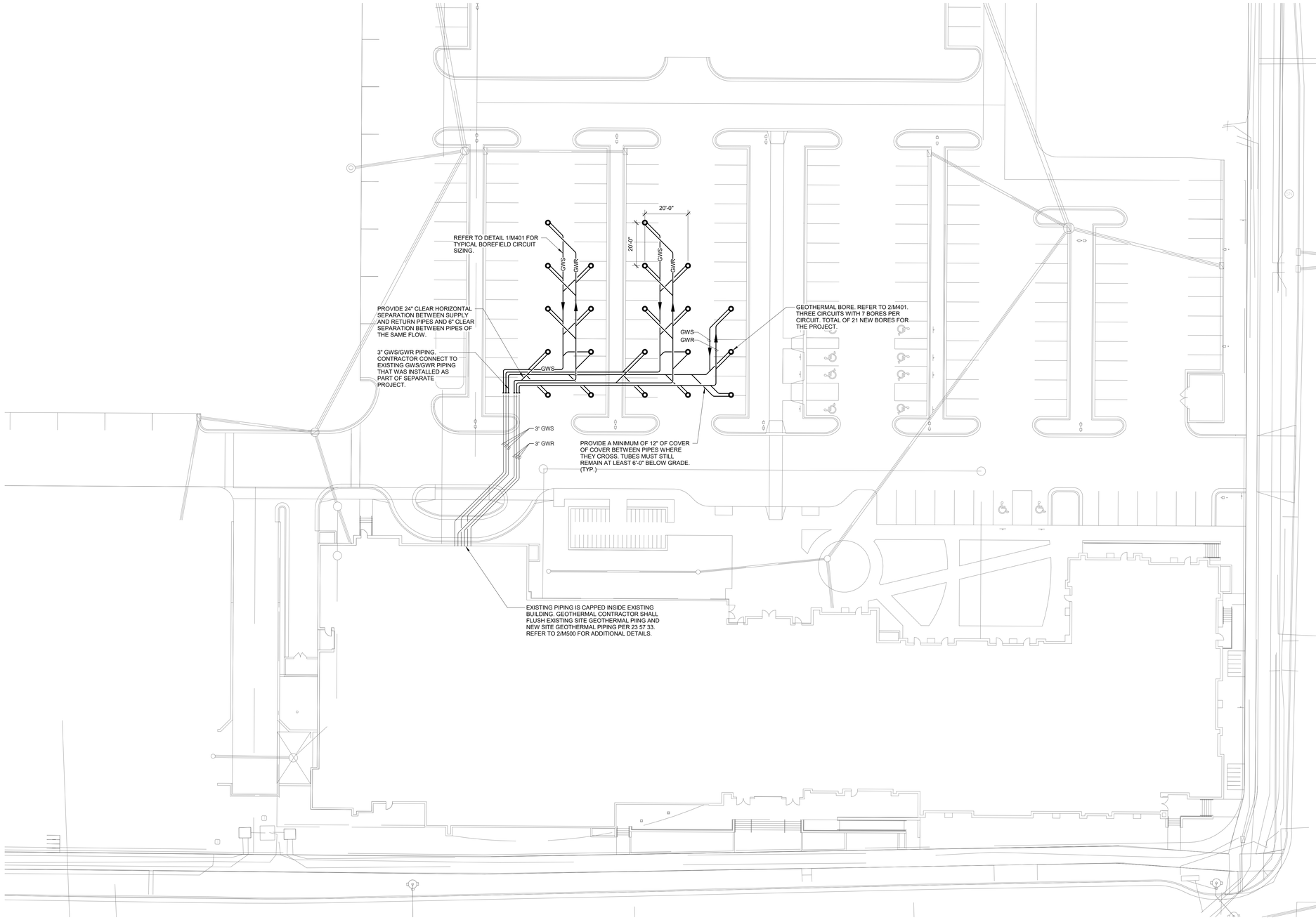
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GENERAL NOTES :

1. ALL EXTERIOR GWS/GWR PIPING SHALL HAVE AT LEAST 6'-0" OF COVER.



NORTH

1 SITE PLAN - PHASE 2 - MECHANICAL

1" = 20'-0"

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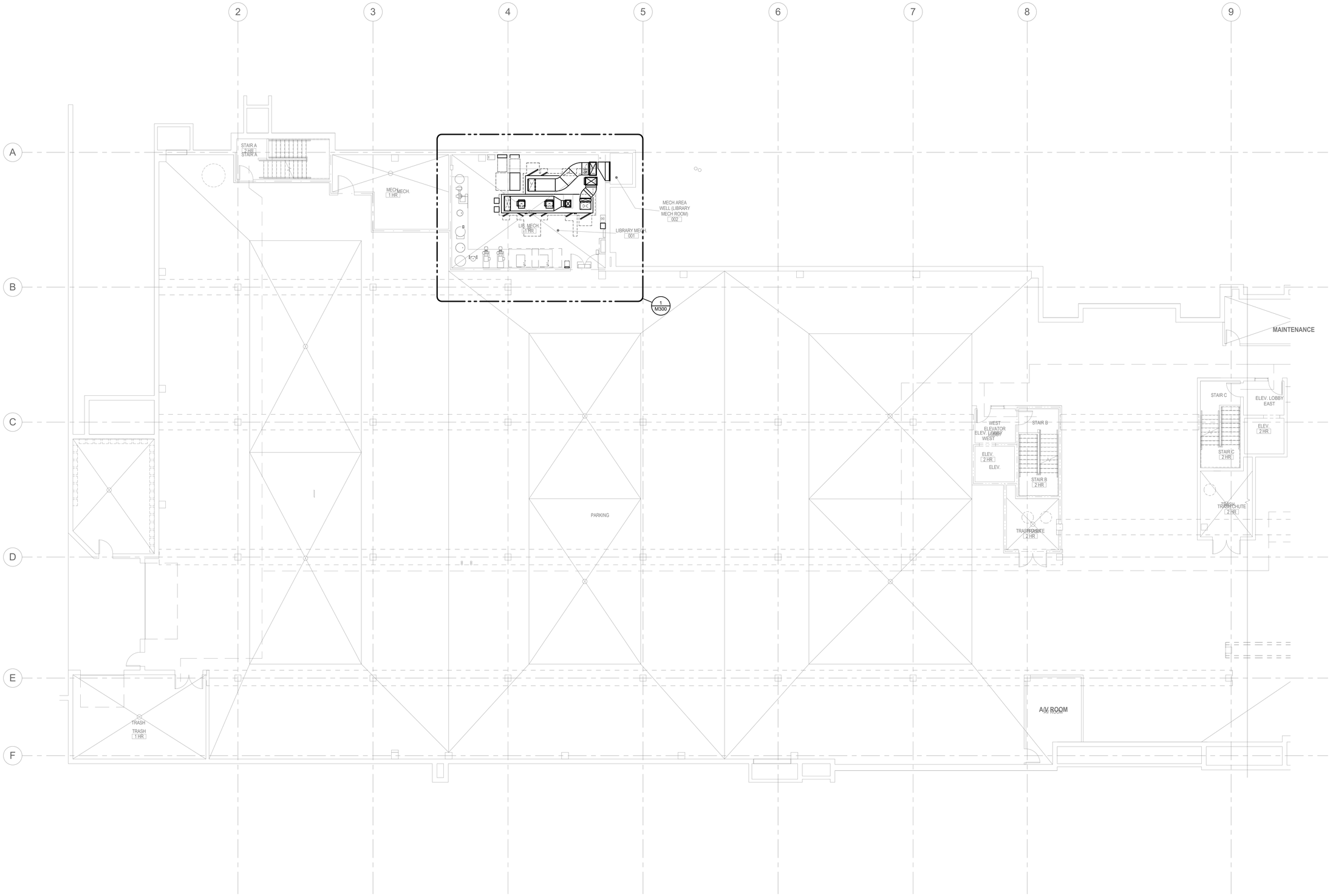
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SITE PLAN - PHASE 2 - MECHANICAL

Sheet Number
M002

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LEVEL 0 FLOOR PLAN - VENTILATION

1/8" = 1'-0"

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Sheet Name
LEVEL 0 FLOOR PLAN - VENTILATION

Sheet Number
M100

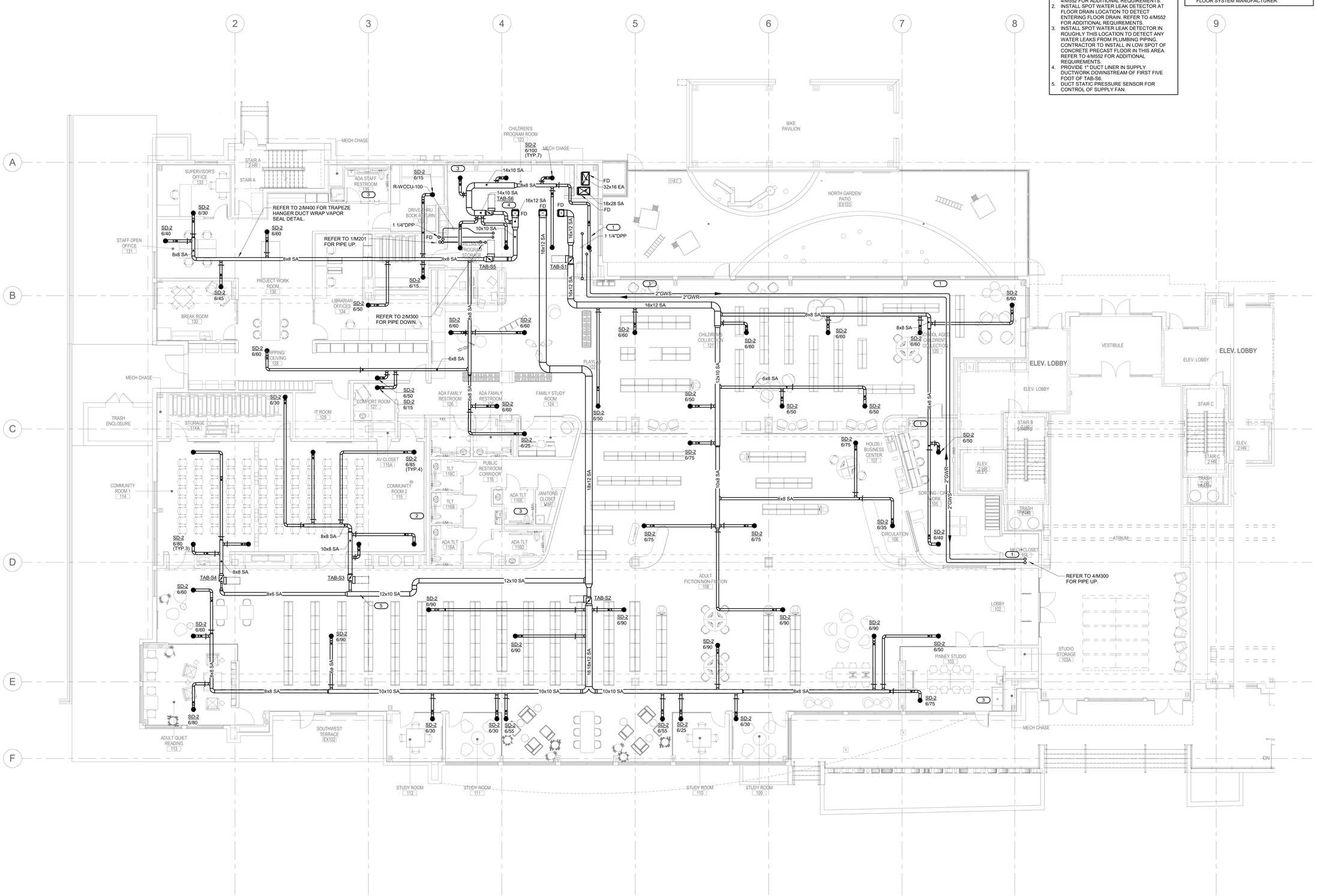
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KEYNOTES: (#)

1. INSTALL SPOT WATER LEAK DETECTOR IN ROUGHLY THIS LOCATION TO DETECT WATER LEAKS IN GLYCOL WATER PIPING WITHIN RAISED FLOOR SYSTEM. CONTRACTOR TO INSTALL IN LOW SPOT OF CONCRETE PRECAST FLOOR UNDER GWS/GWR PIPING. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
2. INSTALL SPOT WATER LEAK DETECTOR AT FLOOR DRAIN LOCATION TO DETECT ENTERING FLOOR DRAIN. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
3. INSTALL SPOT WATER LEAK DETECTOR IN ROUGHLY THIS LOCATION TO DETECT ANY WATER LEAKS FROM PLUMBING PIPING. CONTRACTOR TO INSTALL IN LOW SPOT OF CONCRETE PRECAST FLOOR IN THIS AREA. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE 1" DUCT LINER IN SUPPLY DUCTWORK DOWNSTREAM OF FIRST FIVE FOOT OF TAB-S6.
5. DUCT STATIC PRESSURE SENSOR FOR CONTROL OF SUPPLY FAN.

GENERAL NOTES :

1. ALL DUCTWORK AND PIPING SHOWN ON THIS FLOOR PLAN IS ROUTED IN THE RAISED FLOOR PLENUM. SUPPORT DUCTS AND PIPING FROM FLOOR SLAB AND ROUTE WITHIN CLEAR SPACE OF RAISED FLOOR SYSTEM. COORDINATE CLEARANCES WITH RAISED FLOOR SYSTEM MANUFACTURER.



NORTH 1 **LEVEL 1 UNDER RAISED FLOOR PLAN - MECHANICAL**

1/8" = 1'-0"

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Sheet Name
LEVEL 1 UNDER RAISED FLOOR PLAN – MECHANICAL

Sheet Number
M101

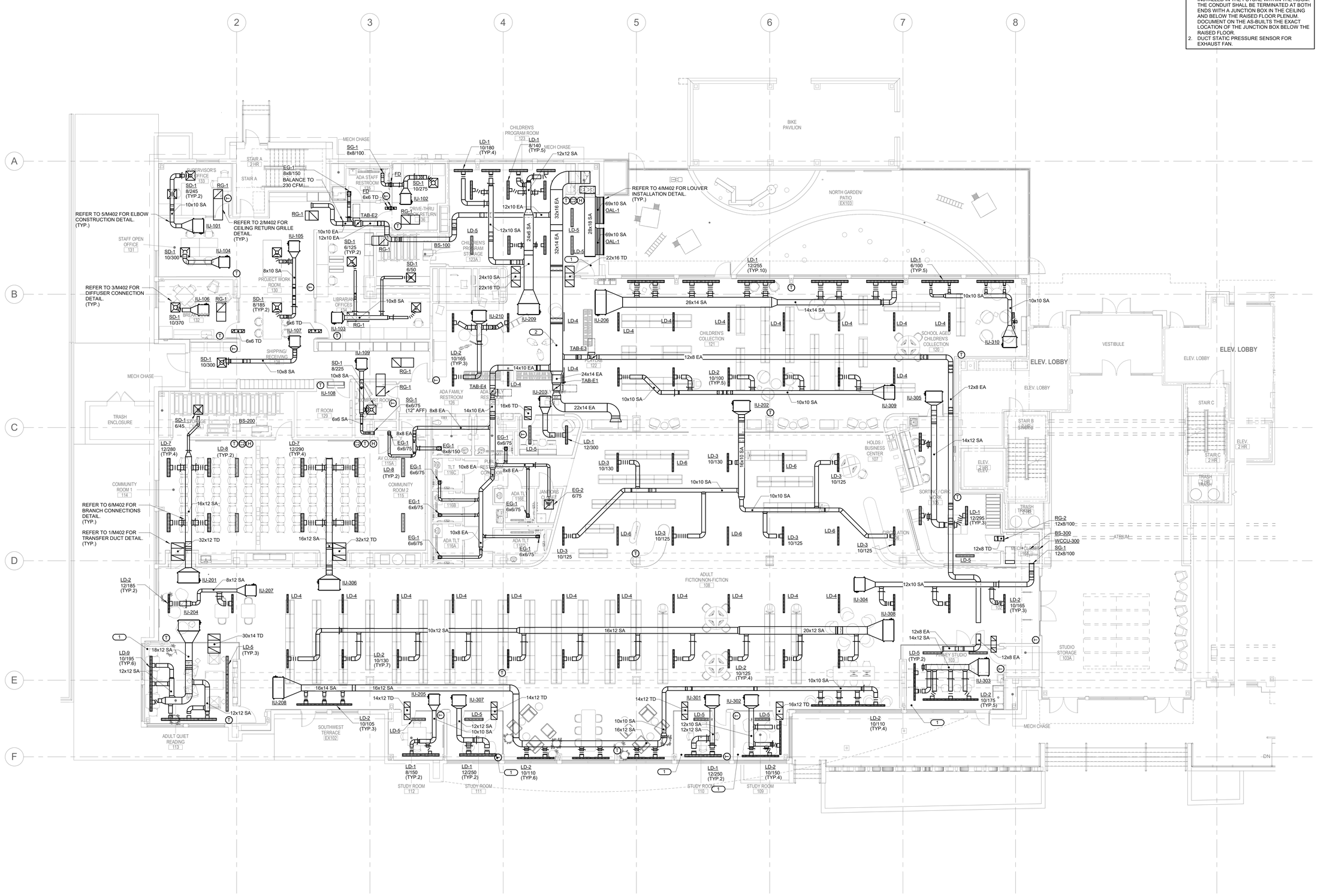
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GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS/SECTIONS FOR EXACT LOCATIONS OF WALL MOUNTED SENSORS.

KEYNOTES:

1. TCC SHALL INSTALL 3/4" CONDUIT FROM VRF INDOOR UNIT SERVING ROOM TO BELOW RAISED FLOOR PLENUM NEAR EXTERIOR GLAZING. CONDUIT PROVIDED FOR FUTURE TEMPERATURE CONTROL WIRING IF PEDESTAL STYLE ELECTRIC BASEBOARD HEAT IS EVER INSTALLED IN THE FUTURE WITHIN THE ROOM. THE CONDUIT SHALL BE TERMINATED AT BOTH ENDS WITH A JUNCTION BOX IN THE CEILING AND BELOW THE RAISED FLOOR PLENUM. DOCUMENT ON THE AS-BUILTS THE EXACT LOCATION OF THE JUNCTION BOX BELOW THE RAISED FLOOR.
2. DUCT STATIC PRESSURE SENSOR FOR EXHAUST FAN.



1 LEVEL 1 FLOOR PLAN - VENTILATION

1/8" = 1'-0"

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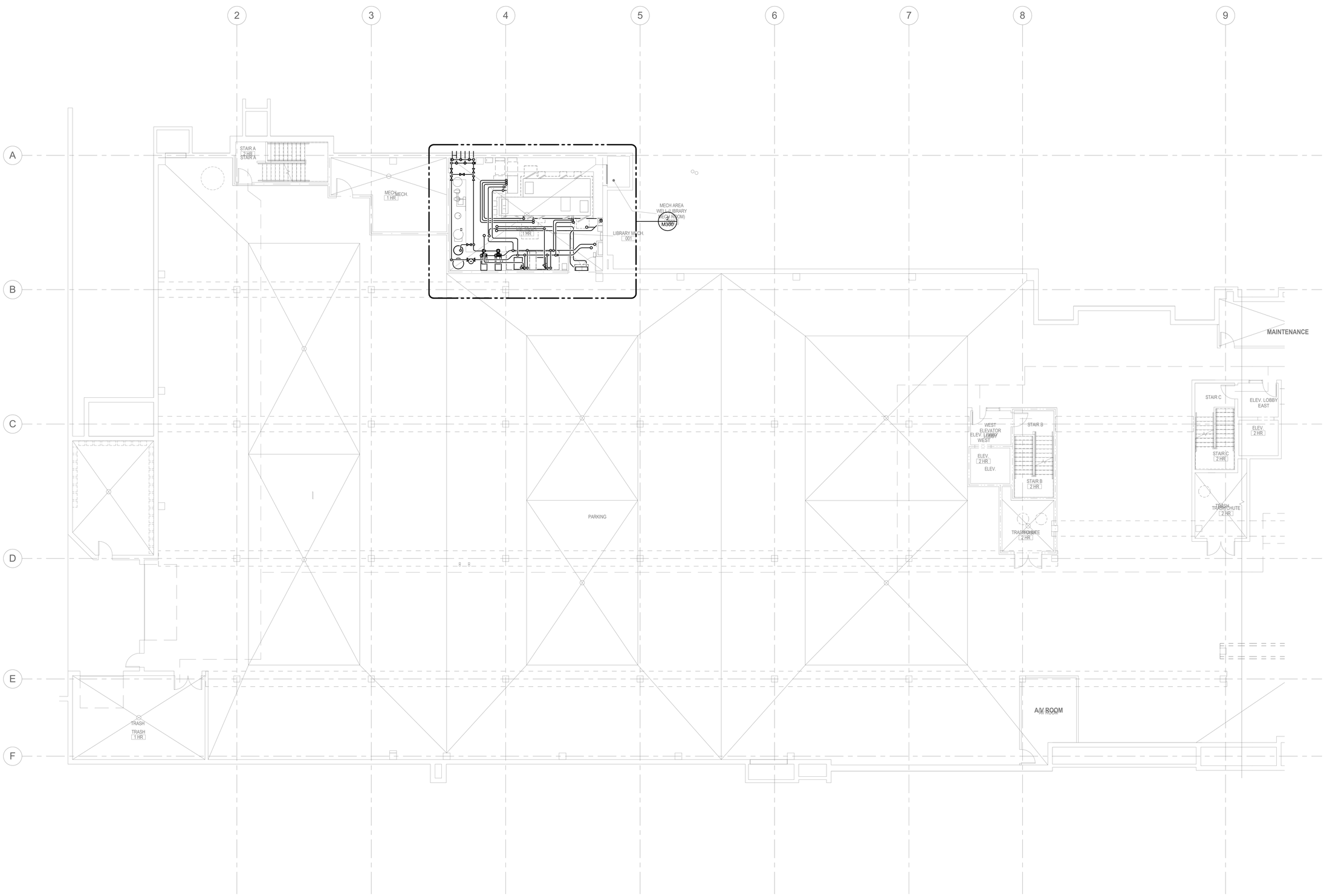
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Sheet Name
LEVEL 1 FLOOR PLAN - VENTILATION

Sheet Number
M102

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LEVEL 0 FLOOR PLAN - PIPING

1/8" = 1'-0"

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LEVEL 0 FLOOR PLAN - PIPING

Sheet Number

M200

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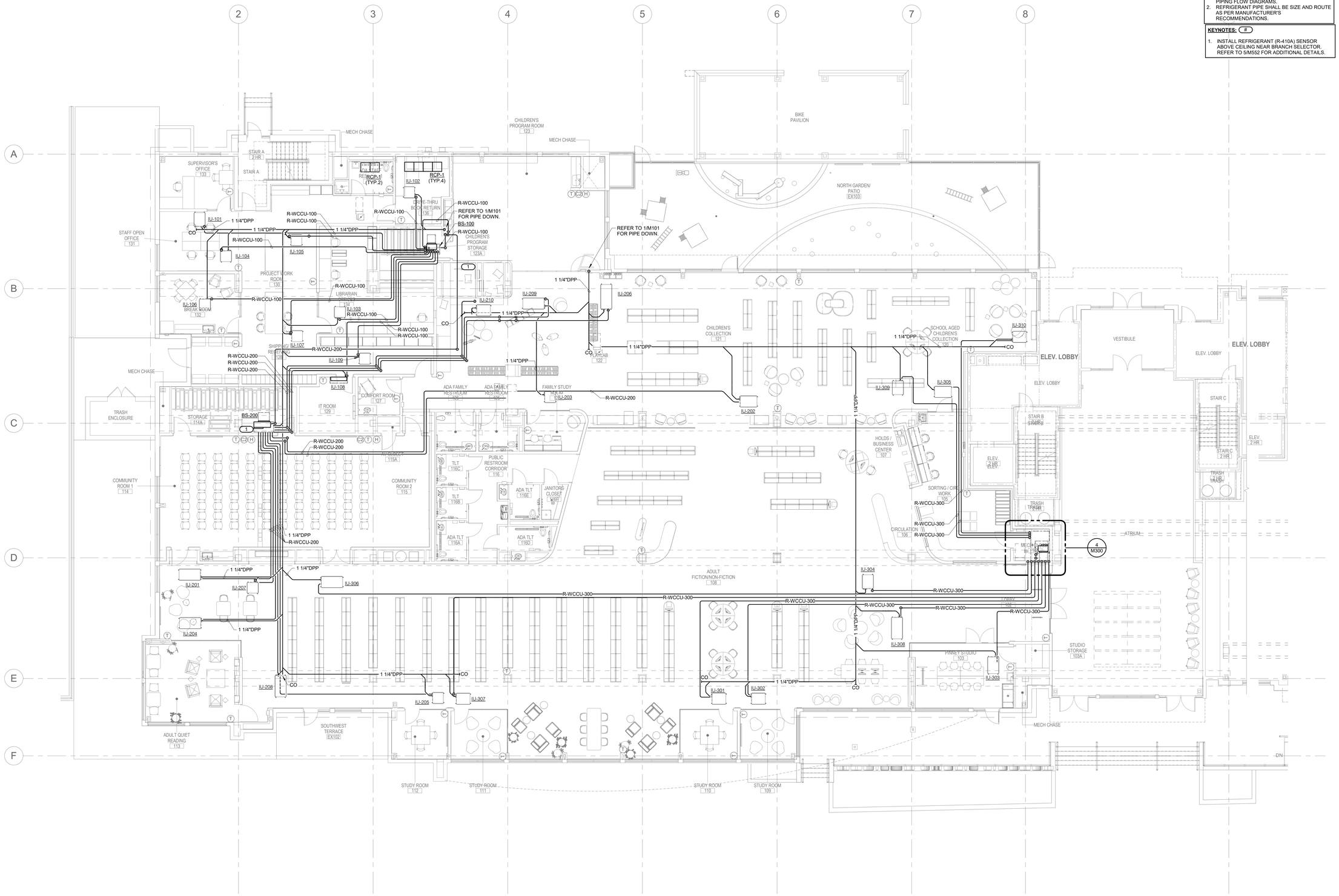
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GENERAL NOTES :

1. VRF REFRIGERANT PIPING GENERAL ROUTING. SINGLE LINE SHOWN TO REPRESENT INTENDED PATH, MULTIPLE PIPES WILL BE REQUIRED. CONTRACTOR TO DETERMINE FINAL ROUTING BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES. REFER TO M501 FOR VRF REFRIGERANT PIPING FLOW DIAGRAMS.
2. REFRIGERANT PIPE SHALL BE SIZE AND ROUTE AS PER MANUFACTURER'S RECOMMENDATIONS.

KEYNOTES: (#)

1. INSTALL REFRIGERANT (R-410A) SENSOR ABOVE CEILING NEAR BRANCH SELECTOR. REFER TO 5/M552 FOR ADDITIONAL DETAILS.



1 LEVEL 1 FLOOR PLAN - PIPING

1/8" = 1'-0"

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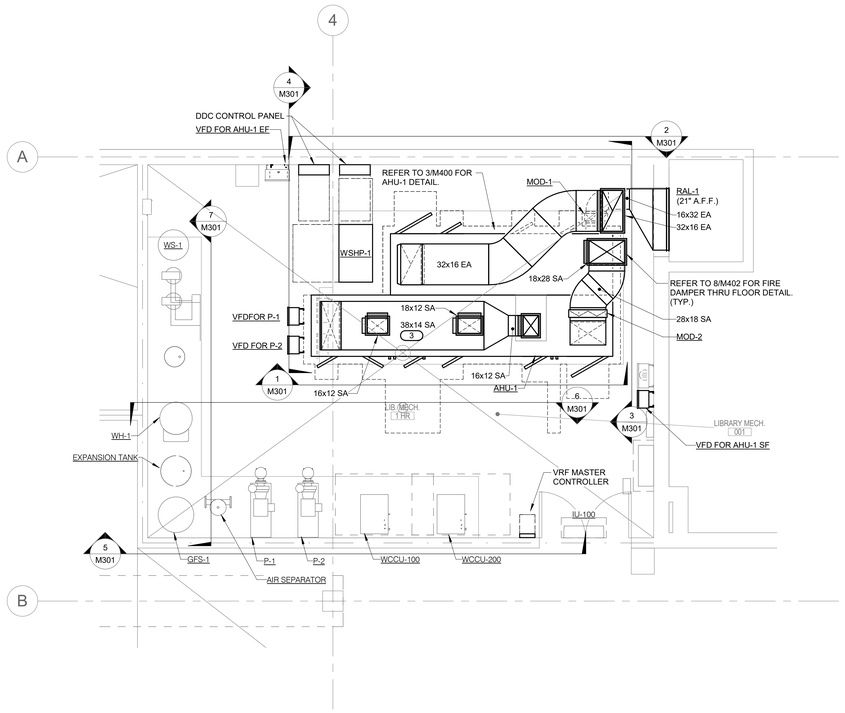
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LEVEL 1 FLOOR PLAN - PIPING

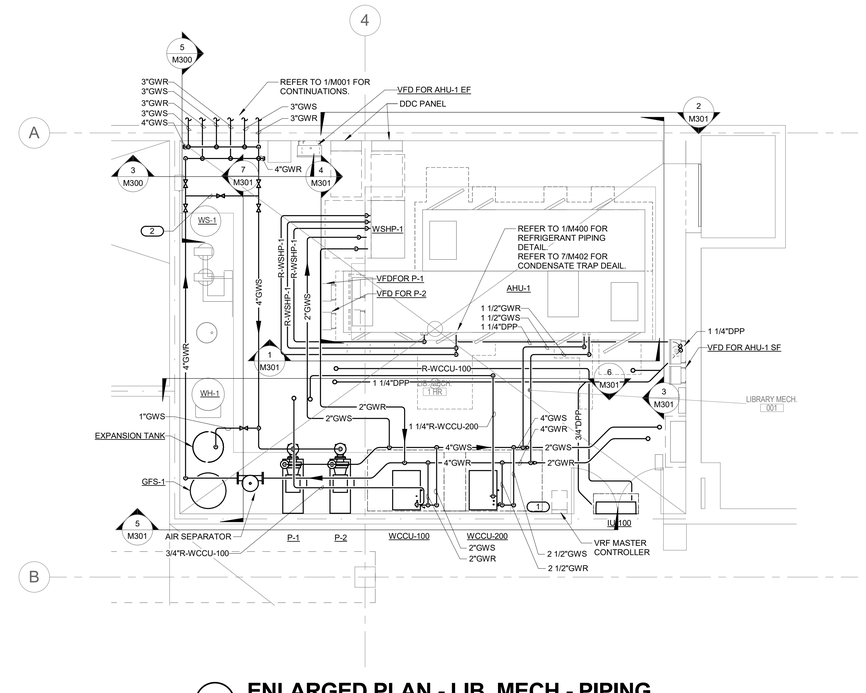
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M201

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1 ENLARGED PLAN - LIB. MECH - VENTILATION

1/4" = 1'-0"



2 ENLARGED PLAN - LIB. MECH - PIPING

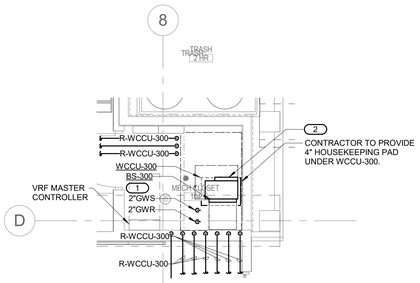
1/4" = 1'-0"

KEYNOTES: (#)

1. INSTALL REFRIGERANT (R-410A) SENSOR WITHIN ROOM 12' AFF. REFER TO 5/M552 FOR ADDITIONAL DETAILS.
2. PROVIDE 4" CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM.

GENERAL NOTES :

1. REFER TO 2/M500 FOR GLYCOL WATER PIPING FLOW DIAGRAM AND 1/M501 FOR REFRIGERANT PIPING FLOW DIAGRAM. CONTRACTOR SHALL INSTALL ALL THE REQUIRED ACCESSORIES AS PER FLOW DIAGRAM.
2. REFRIGERANT PIPE SHALL BE SIZE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE 2" DOUBLE WALL DUCTWORK WITH PERFORATED LINER IN MECHANICAL ROOM SUPPLY DUCTWORK.
4. VRF REFRIGERANT PIPING GENERAL ROUTING. SINGLE LINE SHOWN TO REPRESENT INTENDED PATH. MULTIPLE PIPES WILL BE REQUIRED. CONTRACTOR TO DETERMINE FINAL ROUTING BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES. REFER TO M501 FOR VRF REFRIGERANT PIPING FLOW DIAGRAMS.

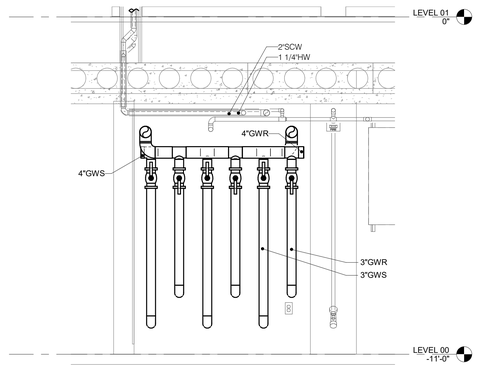


4 ENLARGED PLAN MECH CLOSET 104 - PIPING

1/4" = 1'-0"

KEYNOTES: (#)

1. INSTALL REFRIGERANT (R-410A) SENSOR WITHIN ROOM 12' AFF. REFER TO 5/M452 FOR ADDITIONAL DETAILS.
2. ROUTE REFRIGERANT PIPING AND GWS/GWR PIPING TO WCCU-300/BS-300 PER MANUFACTURER'S REQUIREMENTS.

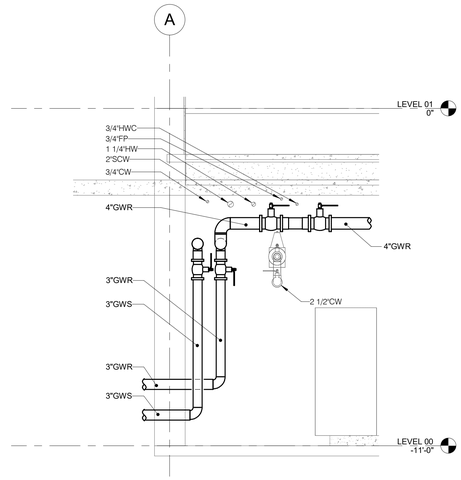


3 SECTION FOR GEOTHERMAL PIPING ENTRY FRONT

1/2" = 1'-0"

NOTES:

1. REFER TO FLOW DIAGRAM ON M500 FOR ADDITIONAL ACCESSORIES REQUIRED WITHIN PIPING.



5 SECTION FOR GEOTHERMAL PIPING ENTRY SIDE

NO SCALE

NOTES:

1. REFER TO FLOW DIAGRAM ON M500 FOR ADDITIONAL ACCESSORIES REQUIRED WITHIN PIPING.

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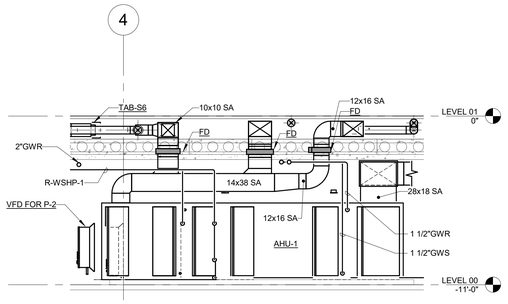
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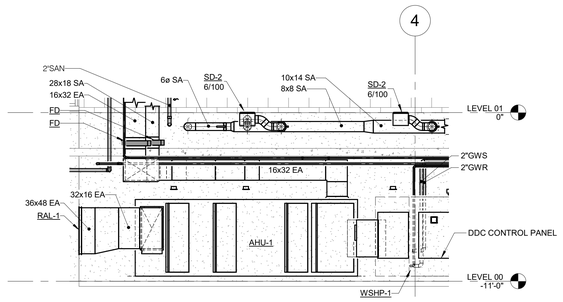
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ENLARGED PLANS AND SECTIONS - MECHANICAL

Sheet Number
M300

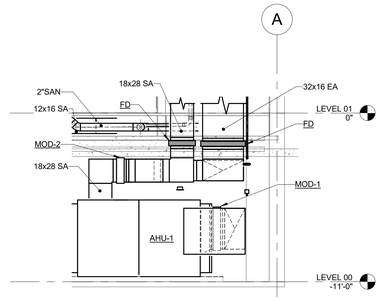
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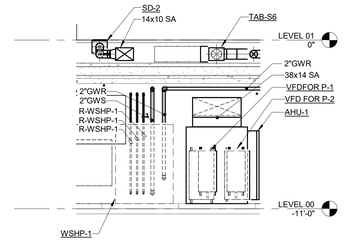
1 SECTION FOR AHU-1 NORTH MECHANICAL
1/4" = 1'-0"



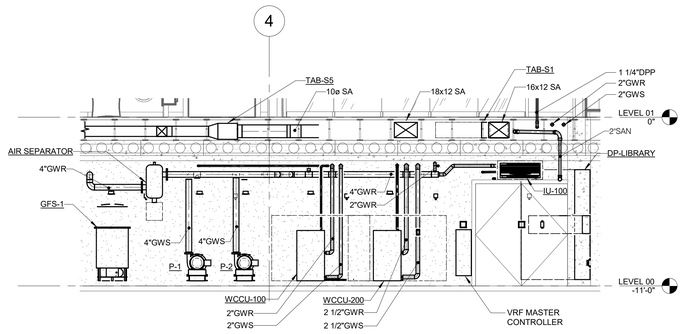
2 SECTION FOR AHU-1 SOUTH MECHANICAL
1/4" = 1'-0"



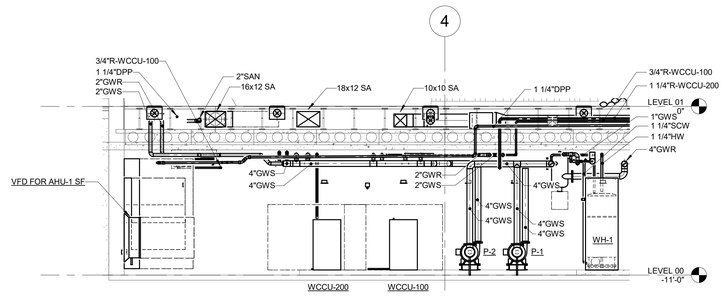
3 SECTION FOR AHU-1 WEST MECHANICAL
1/4" = 1'-0"



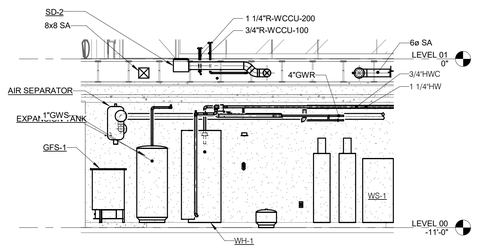
4 SECTION FOR AHU-1 EAST MECHANICAL
1/4" = 1'-0"



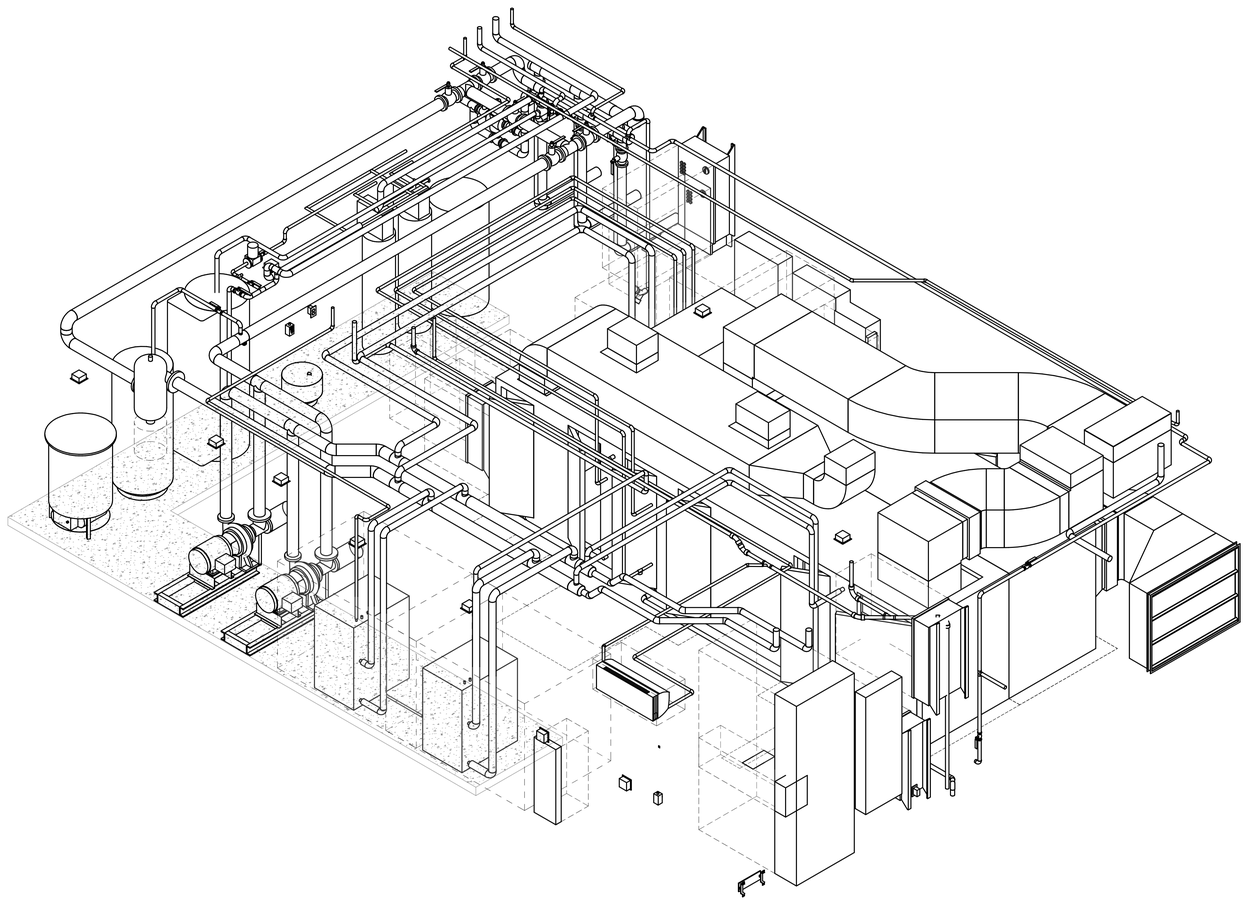
5 SECTION FOR WATER COOLED CONDENSING UNIT NORTH- MECHANICAL
1/4" = 1'-0"



6 SECTION FOR WATER COOLED CONDENSING UNIT SOUTH- MECHANICAL
1/4" = 1'-0"



7 SECTION FOR MECHANCIAL ROOM SOUTH - MECHANICAL
1/4" = 1'-0"



8 ISOMETRIC PLAN- MECHANICAL

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Key Plan

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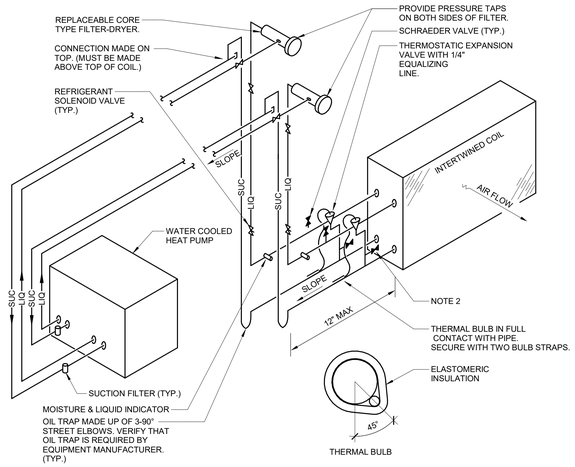
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ENLARGED PLANS AND SECTIONS - MECHANICAL

Sheet Number
M301

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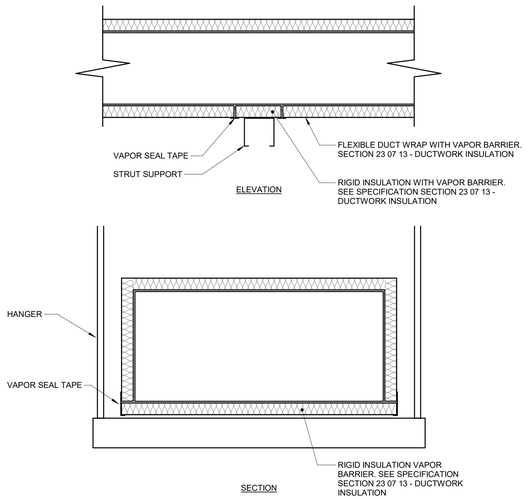


1 REFRIGERANT PIPING DETAIL (VERT. INTERTWINED)

NO SCALE

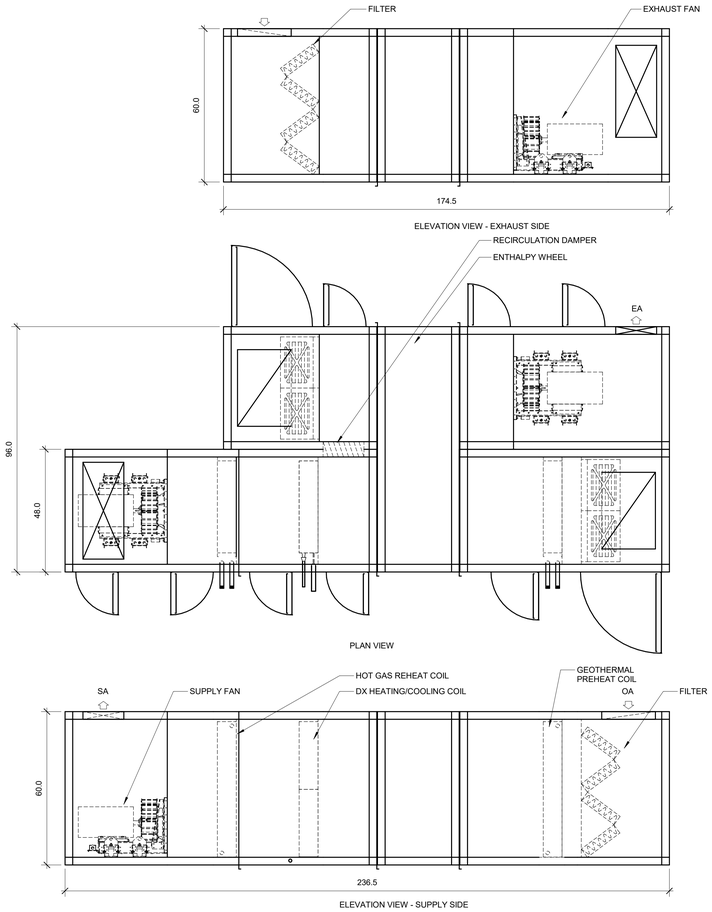
NOTES:

1. THIS DIAGRAM IS SCHEMATIC IN NATURE. UNIT MANUFACTURER SHALL SUBMIT DETAILED PIPING DIAGRAM SHOWING RECOMMENDED PIPING ARRANGEMENT IF DIFFERENT FROM ABOVE.
2. INSTALL 1/4" SCHRAEDER VALVES TO MEASURE REFRIGERANT PRESSURE WITH REFRIGERANT GAUGES.
3. PIPE SIZES, IF SHOWN ON DRAWINGS, ARE ONLY FOR THE CONVENIENCE OF THE BIDDERS. ACTUAL NUMBERS AND SIZES OF PIPES AND ANY ACCESSORIES SUCH AS ACCUMULATORS, RECEIVERS, SEPARATORS AND HEAT TRACING SHALL BE DETERMINED BY THE COIL SUPPLIER AND SUBMITTED AS SHOP DRAWINGS. NO COMPENSATION WILL BE MADE IF ACTUAL NUMBER OR SIZES OF PIPES EXCEED WHAT IS SHOWN.
4. QUANTITY OF COILS VARY PER UNIT. PROVIDE INTERTWINED COIL CONNECTIONS FOR STACKED COILS SO BOTH COILS HAVE EQUAL COOLING AT PART LOAD CONDITIONS.
5. PIPING DETAIL SHOWN IS FOR COOLING ONLY DX COIL. HEAT PUMP STYLE UNITS MAY REQUIRE ADDITIONAL ACCESSORIES FOR COMPLETE SYSTEM PER MANUFACTURER RECOMMENDATIONS.



2 TRAPEZE HANGER DUCT WRAP VAPOR SEAL DETAIL

NO SCALE



3 AHU-1 DETAIL

NO SCALE

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Sheet Name
MECHANICAL DETAILS

Sheet Number
M400

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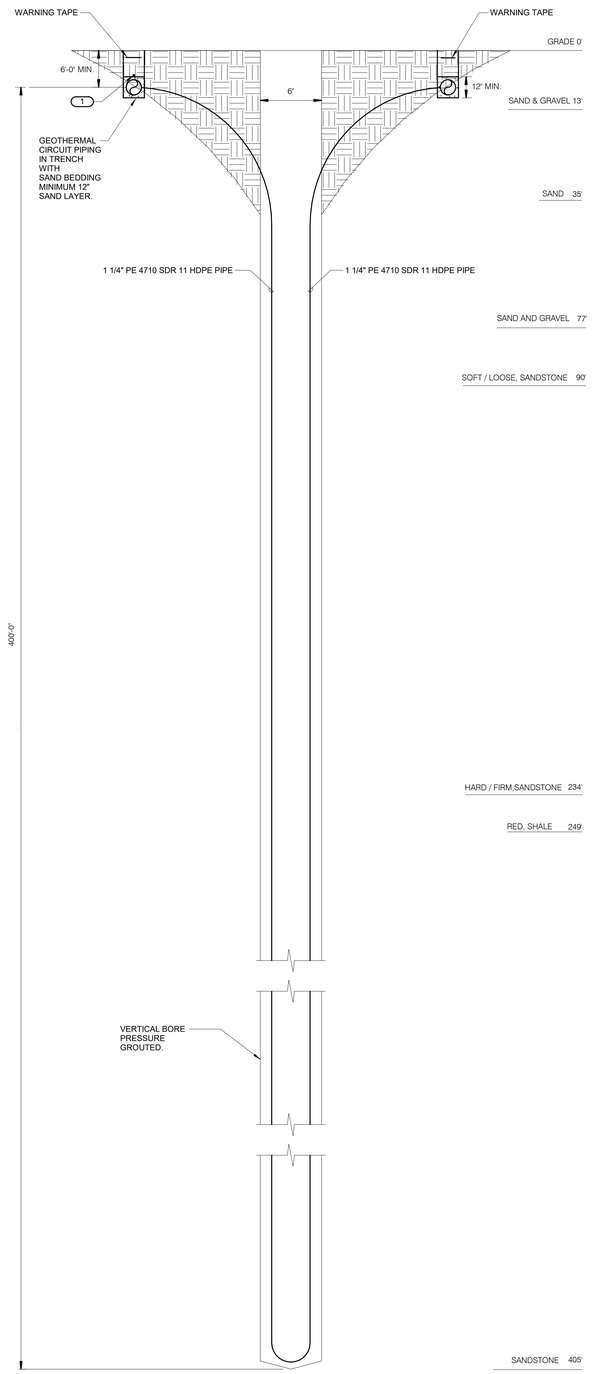


1 TYPICAL BOREFIELD CIRCUIT SIZING

NO SCALE

NOTES:

1. ALL GWR/GWS PIPING FOR BOREFIELD CIRCUITS SHALL BE AT LEAST 6'-0" BELOW FINISHED GRADE.



2 GEOTHERMAL EXCHANGER DETAIL

NO SCALE

KEYNOTES:

(1) LOCATING WIRE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON THE ENTIRE PERIMETER OF CIRCUIT PIPING AT EDGES OF WELL FIELD, ON CIRCUIT PIPING BETWEEN WELL FIELD AND BUILDING.

GEOTHERMAL FIELD INFORMATION

TOTAL NUMBER OF GEOTHERMAL BORES	21
NUMBER OF BORES PER CIRCUIT	7
BORE DEPTH	SEE 2/M401
TYPICAL BORE SPACING	20'x20'
BOREFEILD FLUID TEMPERATURE ENTERING BUILDING WINTER	36°F MIN
BOREFEILD FLUID TEMPERATURE ENTERING BUILDING SUMMER	90°F MAX
GEOTHERMAL FLUID	25% FOOD GRADE PROPYLENE GLYCOL
GROUT THERMAL CONDUCTIVITY	1.0BTU/H-FT-°F
FORMATION THERMAL CONDUCTIVITY	2.0 BTU/HR-FT-°F
FORMATION THERMAL DIFFUSIUITY	1.28 FT2/ DAY
FORMATION THERMAL TEMPERATURE	51.7°F- 53.5°F
PEAK BLOCK COOLING LOAD	500 MBH
PEAK BLOCK HEATING LOAD	430 MBH
ASSUMED ANNUAL EFL COOLING HOURS	700
ASSUMED ANNUAL EFL HEATING HOURS	750

3 GEOTHERMAL FIELD INFORMATION

NO SCALE

KEYNOTES:

1. REFER TO 23 57 33 FOR ADDITIONAL REQUIREMENTS.

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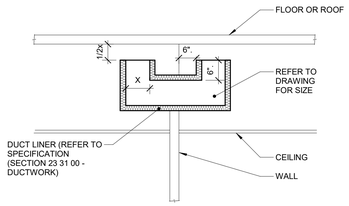
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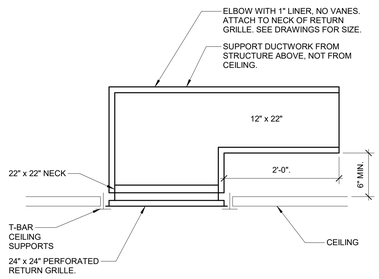
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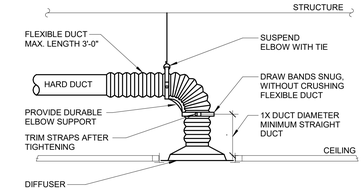
1 TRANSFER DUCT DETAIL (ENDS UP)

NO SCALE



2 CEILING RETURN GRILLE

NO SCALE

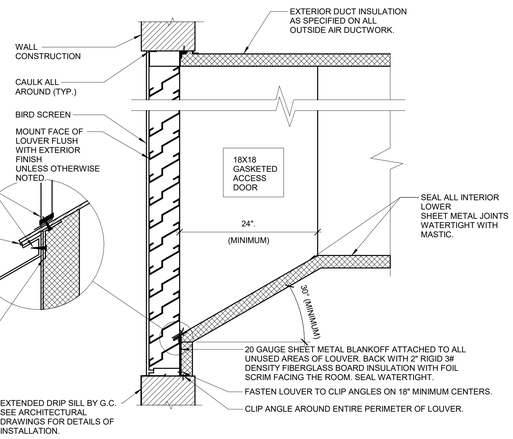


3 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)

NO SCALE

NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. "SMARTFLOW" ELBOW THERMAFLEX "FLEXFLOW" AND "FLEXRIGHT" ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.

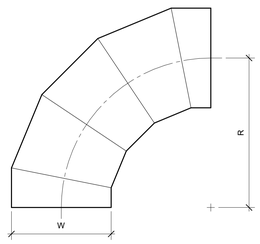


4 LOUVER INSTALLATION DETAIL

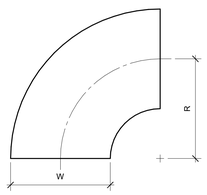
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NOTES:

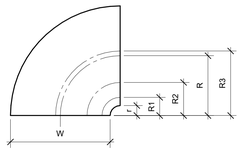
1. SEAL ALL JOINTS ON BOTTOM INTERIOR SURFACE OF DUCT WITHIN 6'-0" OF THE LOUVER WATER TIGHT.
2. MOUNT BOTTOM OF INTAKE LOUVERS AT LEAST 40" ABOVE GRADE OR ROOF ELEVATION TO MINIMIZE CHANCES OF SNOW DRIFTING INTO THE LOUVER.
3. CAULK SHEETMETAL SCREWS WHERE THEY PENETRATE METAL.



OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

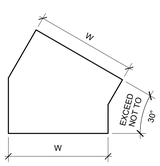


RECTANGULAR RADIUS ELBOW TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3



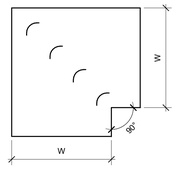
RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.

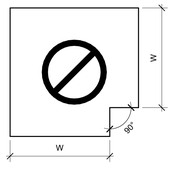


RECTANGULAR MITERED ELBOW TYPE RE6

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

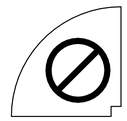


RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2



RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4

NOT ALLOWED



RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT

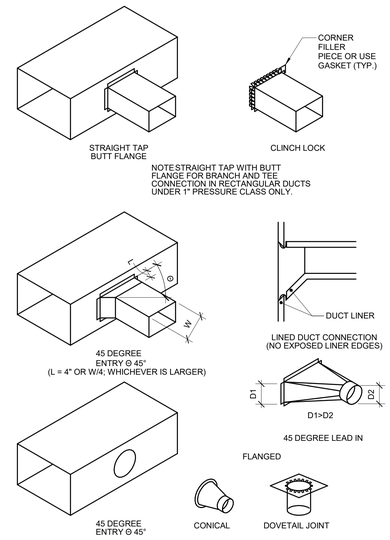
NOT ALLOWED

5 ELBOW CONSTRUCTION

NO SCALE

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

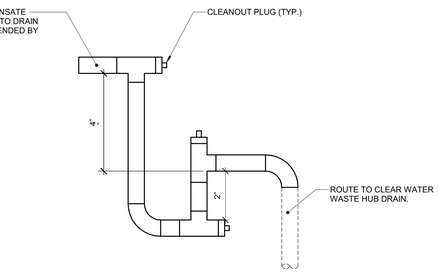


6 BRANCH CONNECTIONS

NO SCALE

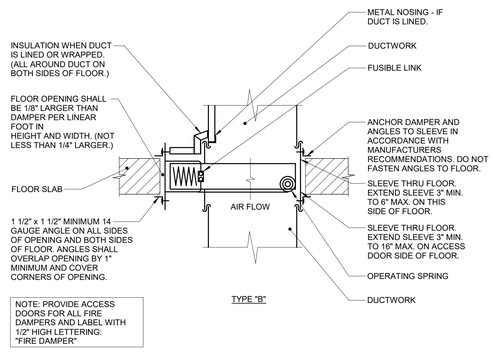
NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



7 CONDENSATE TRAP DETAIL (DRAW-THROUGH)

NO SCALE



NOTE: PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS AND LABEL WITH 1/2" HIGH LETTERING: "FIRE DAMPER"

8 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)

NO SCALE

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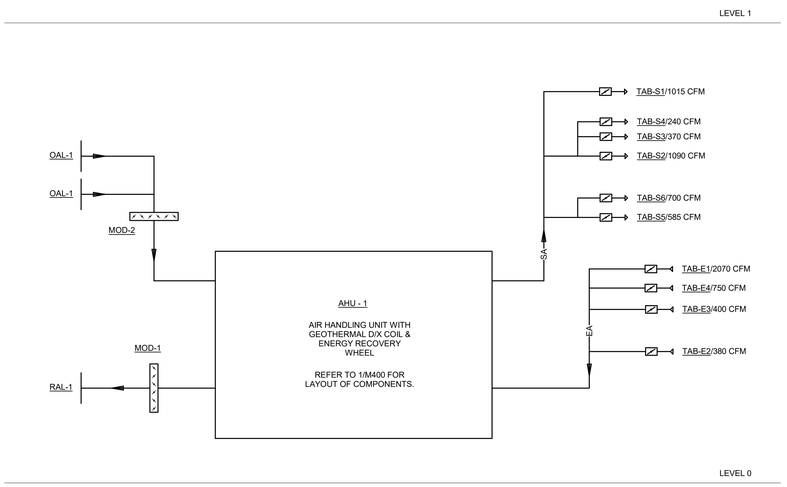
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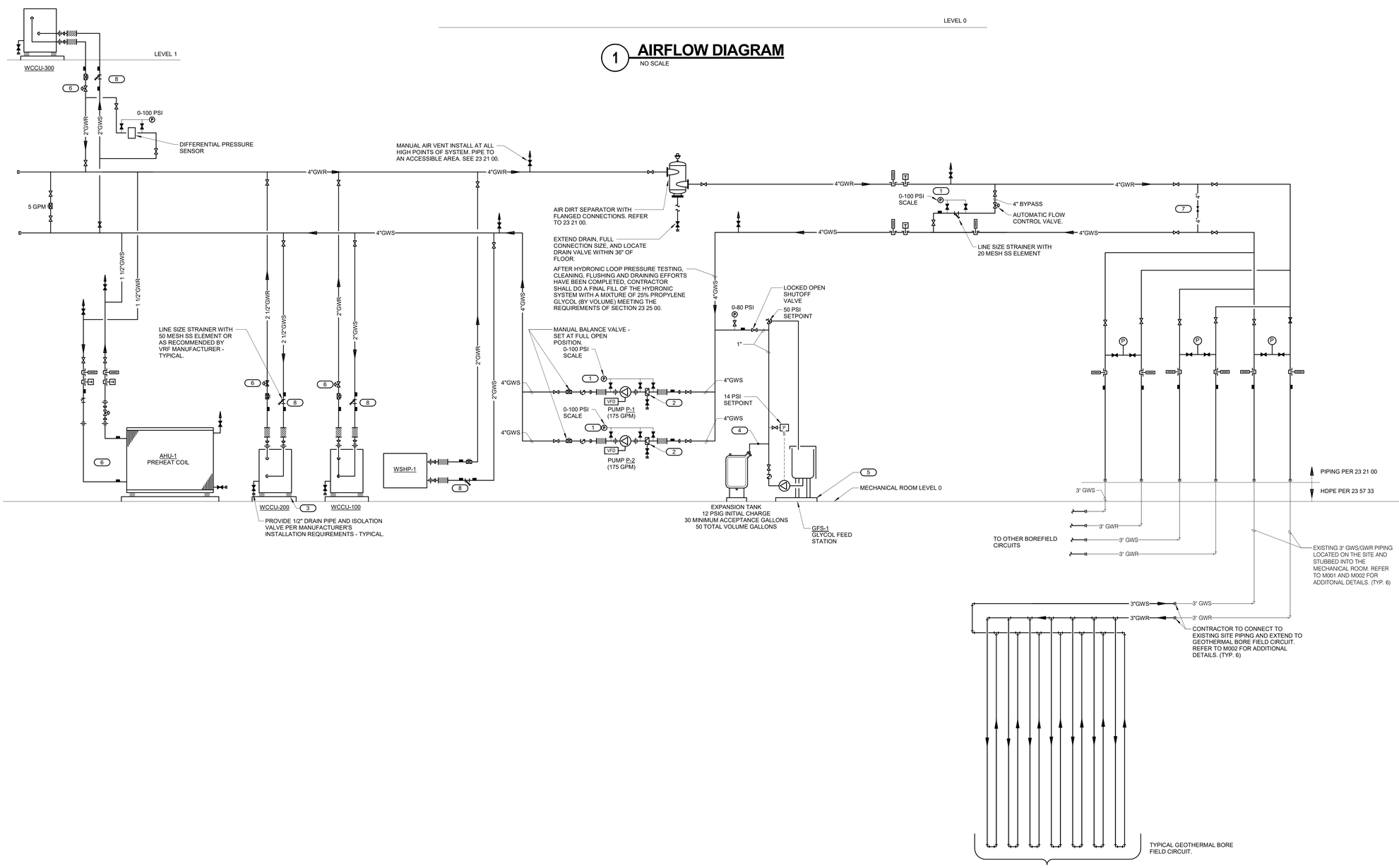
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1 AIRFLOW DIAGRAM

NO SCALE



2 VRF GEOTHERMAL FLOW DIAGRAM

NO SCALE

KEYNOTES (#)

1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE BRACKET PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
3. INSTALL VIBRATION ISOLATORS.
4. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
5. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PADS UNDERNEATH ALL FLOOR MOUNTED MECHANICAL EQUIPMENT. CONCRETE PADS SHALL EXTEND MINIMUM 3" BEYOND ALL SIDES OF EQUIPMENT. EQUIPMENT ITEMS SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING: CHEMICAL FEEDER, EXPANSION TANK, BASE MOUNTED PUMPS, CONDENSING UNITS, GLYCOL FEED STATION, AIR HANDLER AND THE LIKE.
6. TCC SHALL PROVIDE MODULATING CONTROL VALVE WITH 0-10 VDC SIGNAL FOR PRESSURE HEAD CONTROL OF SYSTEM. REFER TO 23 81 45 FOR ADDITIONAL DETAILS.
7. PROVIDE LINE SIZE NORMALLY CLOSED MANUAL VALVE FOR INDEPENDENT FLUSHING OF BUILDING AND BOREFIELD. VALVE SHALL BE LOCKABLE AND LOCKED IN THE CLOSED POSITION AFTER FLUSHING.
8. INSTALL FLOW SWITCH IF REQUIRED PER MANUFACTURER REQUIREMENTS.

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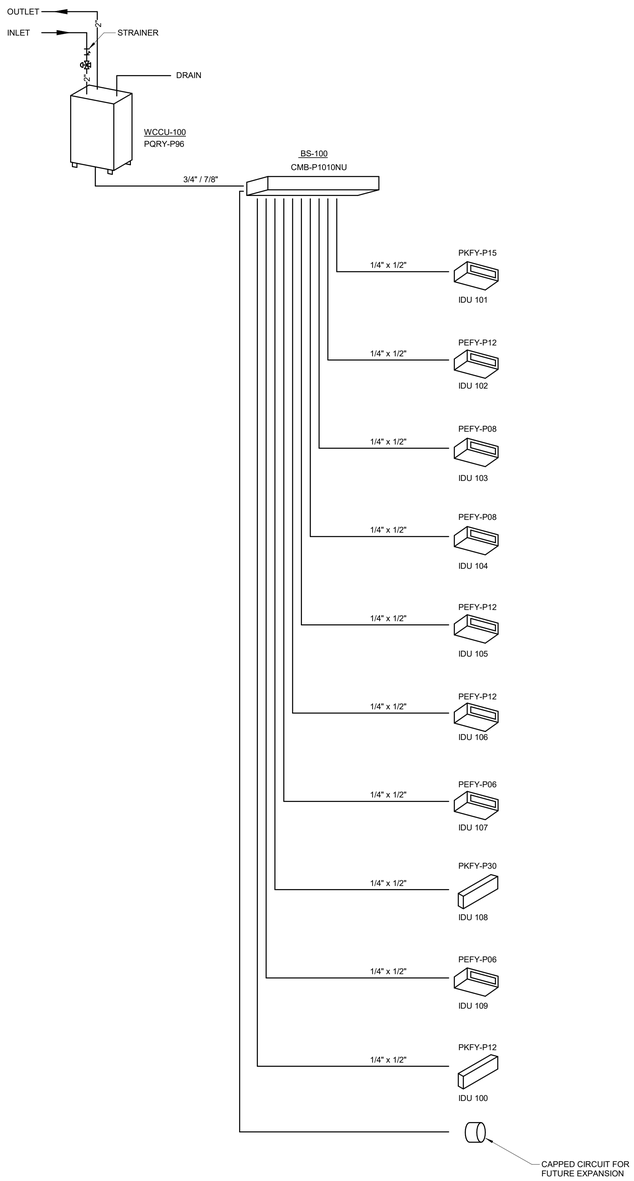
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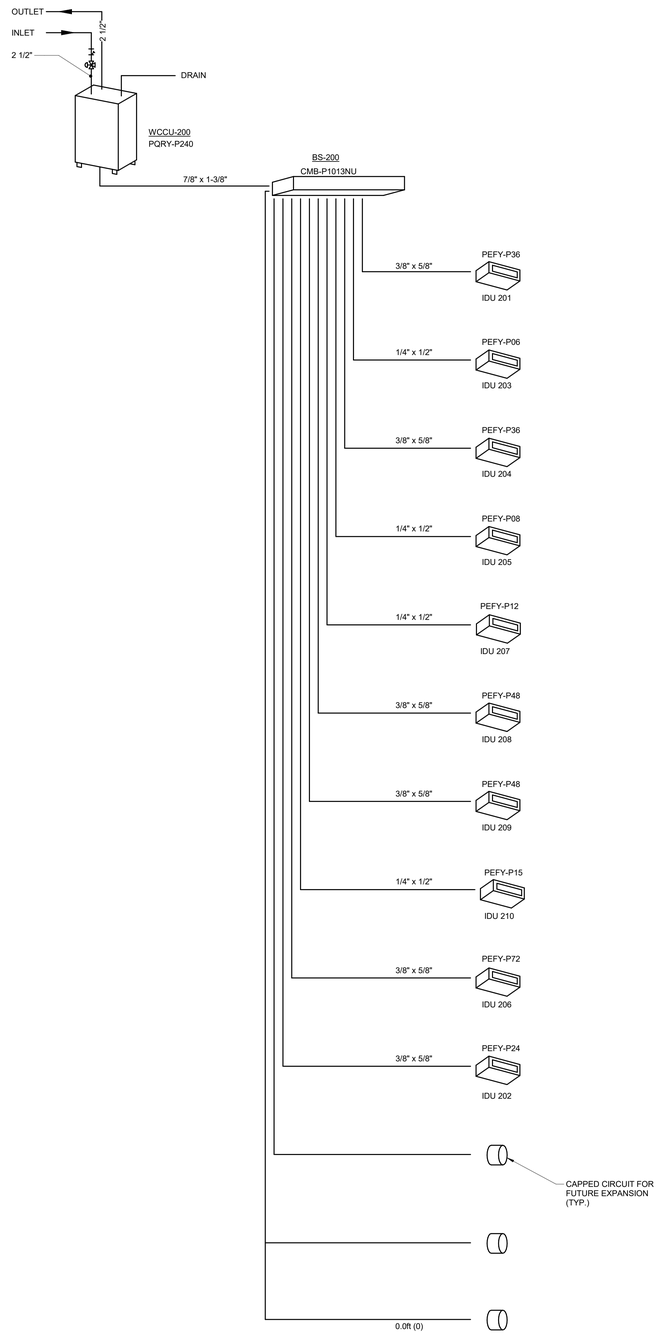
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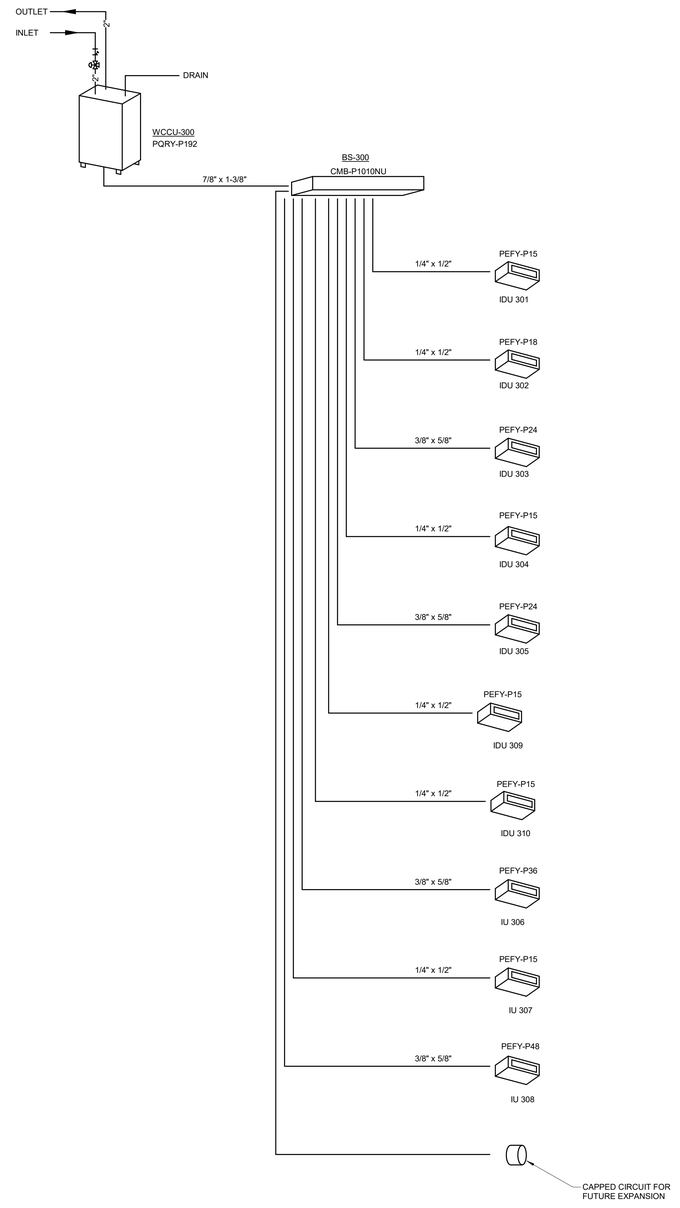
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SYSTEM 1



SYSTEM 2



SYSTEM 3

1 VRF FLOW DIAGRAMS

NO SCALE

NOTES:

1. DIAGRAMS PROVIDED FOR REFERENCE ONLY. CONFIRM FINAL PIPE SIZING, ROUTING, ACCESSRIES, QUANTITIES REQUIREMENTS WITH VRF MANUFACTURER. ZONING IS PER COMMON EXPOSURE/ LOAD PROFILE. ALTERNATE CIRCUITING IS ACCEPTABLE IF EACH INDOOR UNIT IS PROVIDED WITH HEAT RECOVERY FUNCTIONALITY.

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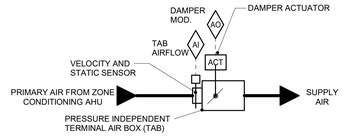
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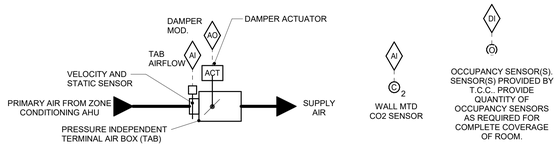


SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SCHEDULED AIRFLOW DURING OCCUPIED HOURS.
- FMCS TAB CONTROLLER SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

3 TAB CONTROL - VENTILATION

NO SCALE



SEQUENCE OF OPERATION:

OCCUPANCY SENSOR CONTROL:

- PRIMARY OCCUPANCY SHALL BE SCHEDULED THROUGH THE BUILDING AUTOMATION SYSTEM (FMCS). REFER TO SPECIFICATIONS.
- IF FMCS IS SCHEDULED OCCUPIED AND SENSOR INDICATES OCCUPANCY, THEN THE TAB DAMPER SHALL CONTROL PER CO2 SENSOR CONTORL LISTED BELOW.
- IF FMCS IS SCHEDULED OCCUPIED AND THE SENSOR INDICATES UNOCCUPIED, THEN THE TAB DAMPER SHALL CLOSE.
- IF THE FMCS IS SCHEDULED UNOCCUPIED AND THE SENSOR INDICATES OCCUPANCY, THEN THE TAB DAMPER SHALL CLOSE.
- ALL PROGRAMMING FOR THE ABOVE SHALL RESIDE IN THE TERMINAL UNIT CONTROLLER, AND SUPERVISORY CONTROLLER SHALL NOT BE REQUIRED TO RESET ANY FLOW OR TEMPERATURE SETPOINTS BASED ON OCCUPANCY SENSOR STATUS.
- FMCS TAB CONTROLLER SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

CO2 SENSOR CONTROL:

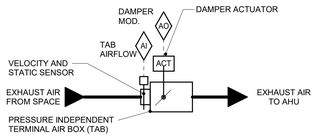
- CO2 LEVELS SHALL ALTER SEQUENCES ONLY DURING SCHEDULED OCCUPIED HOURS.
- NOMINAL/ SETPOINT CO2 LEVEL IS 1000 (ADJ.) PPM. ASSUMMED AMBIENT CO2 LEVEL IS 400 (ADJ.) PPM
- WHEN THE ZONE CO2 SENSOR READING INDICATES THAT THE ZONE CO2 CONCENTRATION IS EQUAL TO OR LESS THAN THE AMBIENT CONCENTRATION OF 400 PPM (ADJ.), THE DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM SCHEDULED AIRFLOW RATE.
- WHEN THE ZONE CO2 CONCENTRATION IS EQUAL TO OR HIGHER THAN THE STEADY STATE CO2 SETPOINT OF 1000 PPM (ADJ.), THE DAMPER SHALL MODULATE TO MAINTAIN THE MAXIMUM SCHEDULED AIRFLOW RATE.
- WHEN THE ZONE CO2 CONCENTRATION IS BETWEEN AMBIENT AND STEADY STATE CO2 SETPOINT CONCENTRATIONS, THE DAMPER SHALL MODULATE TO PROVIDE AN AIRFLOW RATE THAT IS LINEARLY PROPORTIONAL BETWEEN THE AMBIENT (400 PPM ADJ.) AND STEADY STATE SETPOINTS (1000 PPM ADJ.).

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE CO2 LEVEL EXCEEDS 1100 (ADJ.) PPM.

2 TAB CONTROL - DEMAND CONTROL VENTILATION

NO SCALE

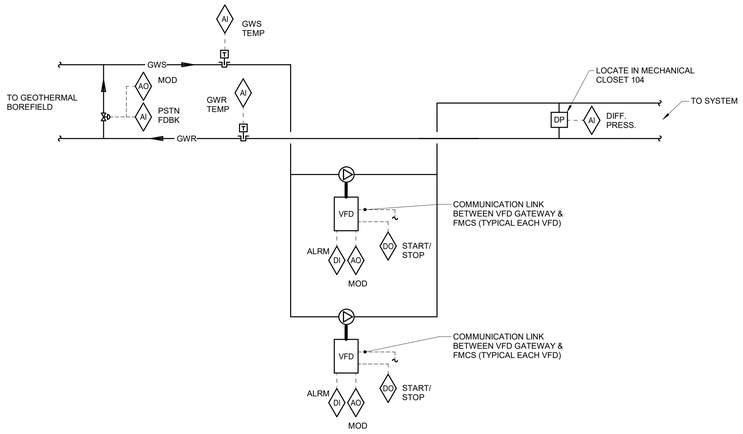


SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SCHEDULED AIRFLOW RATE DURING OCCUPIED HOURS.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE EXHAUST DUCT DIFFERENTIAL STATIC PRESSURE.

1 TAB CONTROL EXHAUST - CONSTANT

NO SCALE



CONTROL SEQUENCE OF OPERATION:

BYPASS CONTROL:
WATER SOURCE VARIABLE REFRIGERANT FLOW (VRF) CONDENSING UNITS REMOVE HEAT FROM A GEOTHERMAL WATER LOOP WHEN THEY ARE IN HEATING MODE (ADDING HEAT TO THE BUILDING) AND RE-JECT HEAT TO THE CIRCULATING WATER LOOP WHEN THEY ARE IN COOLING MODE (TAKING HEAT OUT OF THE BUILDING). THE FMCS SHALL SWITCH THE GEOTHERMAL WATER LOOP OPERATING MODE BASED ON THE FOLLOWING:
• HEATING MODE: WHEN GWR TEMP IS BELOW 45°F (ADJ.) BYPASS VALVE SHALL BE CLOSED.
• ENTERING/EXITING HEATING MODE: WHEN GWR TEMP RISES/FALLS BETWEEN 45°F (ADJ.) AND 50°F (ADJ.) BYPASS VALVE SHALL MODULATE LINEARLY CLOSED.
• FLOATING MODE: WHEN GWR TEMP IS BETWEEN 50°F (ADJ.) AND 75°F (ADJ.) BYPASS VALVE SHALL BE OPEN.
• ENTERING/EXITING COOLING MODE: WHEN GWR TEMP RISES/FALLS BETWEEN 75°F (ADJ.) AND 80°F (ADJ.) BYPASS VALVE SHALL MODULATE LINEARLY CLOSED.
• COOLING MODE: WHEN GWR TEMP IS ABOVE 80°F (ADJ.) BYPASS VALVE SHALL BE CLOSED.

PUMP CONTROL:
LOOP CIRCULATING PUMP SHALL BE STARTED AND STOPPED THROUGH A HAND-OFF-AUTO SWITCH ON THE FACE OF THE VFD. WHEN PLACED IN THE HAND POSITION THE PUMP SHALL RUN CONTINUOUSLY. WHEN PLACED IN THE AUTO POSITION THE FMCS SHALL CONTROL PUMP OPERATION. WHEN PLACED IN THE OFF POSITION THE PUMP MOTOR SHALL BE DE-ENERGIZED.

THE LEAD PUMP SHALL RUN WHENEVER ANY OF THE FOLLOWING ARE ENABLED: HP-1, HP-2, WWHP-1. FMCS SHALL AUTOMATICALLY SWITCH THE LEAD AND LAG PUMP ON A WEEKLY BASIS TO EQUALIZE RUN TIME.

ONLY ONE GEOTHERMAL WATER PUMP SHALL RUN AT TIME. THE SECOND HEATING WATER PUMP IS FULLY REDUNDANT. FMCS SHALL AUTOMATICALLY ROTATE THE LEAD HEATING WATER PUMP ONCE/WEEK (10:00 AM EACH TUESDAY, ADJ.) TO EQUALIZE RUN TIME BETWEEN PUMPS. PROVIDE GRAPHICAL BUTTON ON OPERATOR WORKSTATION GRAPHICAL SCREEN TO ALLOW FMCS OPERATOR TO SWITCH LEAD PUMP TO NEXT ROTATION IN THE EVENT THE CURRENT LEAD PUMP REQUIRES MAINTENANCE.

FMCS SHALL MODULATE SIGNAL TO LEAD PUMP VFD AS REQUIRED TO MAINTAIN HEATING WATER DIFFERENTIAL PRESSURE (DP) SETPOINT IN ADDITION TO MAINTAINING MINIMUM FLOW THROUGH THE WWHP-1 AS REQUIRED PER MANUFACTURER REQUIREMENTS. FMCS SHALL RESET GEOTHERMAL LOOP WATER DIFFERENTIAL PRESSURE (DP) SETPOINT AS REQUIRED TO MAINTAIN AT LEAST 10 PSI (ADJ.) PRESSURE AT PRESSURE SENSOR.

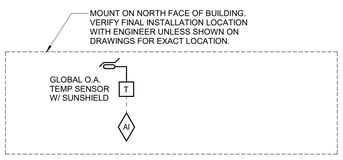
FINAL DIFFERENTIAL PRESSURE SETPOINT SHALL BE DETERMINED BY THE BALANCING CONTRACTOR.

WHEN THE LEAD PUMP IS AT MINIMUM SPEED FOR 15 MINUTES (ADJ.) AND THE WSHP AND VRF COND UNITS ARE DISABLED, THE PUMP SHALL BE DE-ENERGIZED. WHEN THE LEAD PUMP IS OFF AND THE WSHP OR ONE OF THE VRF COND. UNITS IS ENABLED, THE WSHP AND VRF COND UNITS SHALL REMAIN DE-ENERGIZED FOR 5 MINUTES (ADJ.). AFTER THE LEAD PUMP IS ENABLED, FLOW IS PROVED AND THE ASSOCIATED CONTROL VALVE IS OPENED

ALARMS, INTERLOCKS & SAFETIES:
AN ALARM SHALL BE INDICATED TO THE FMCS OPERATOR WORKSTATION IN THE EVENT ANY OF THE FOLLOWING OCCUR:
• AN ALARM IS INDICATED AT ANY VFD.

5 GEOTHERMAL LOOP CONTROL

NO SCALE

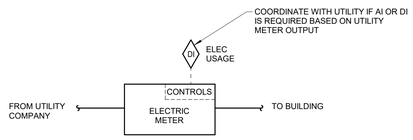


SEQUENCE OF OPERATION:
PROVIDE GLOBAL O.A. DRY-BULB TEMPERATURE.

GLOBAL SENSORS SHALL CONTINUOUSLY UPDATE FMCS FOR USE IN CONTROLLING MECHANICAL EQUIPMENT AS REQUIRED IN SEQUENCES OF OPERATION.

6 GLOBAL REFERENCE POINTS

NO SCALE



SEQUENCE OF OPERATION:

GENERAL:
THE UTILITIES ARE METERED THROUGH THE DDC VIA THE FMCS.

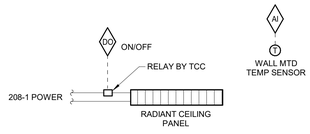
UTILITY METERING CONTROL:

- ELECTRIC METERING:

  THE TCC SHALL CONNECT THE FMCS TO THE ELECTRICAL METER FOR ELECTRICAL USAGE INFORMATION.

4 BUILDING UTILITY MONITORING

NO SCALE



SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 60°F (ADJ.), THE RADIANT CEILING PANEL SHALL BE DISABLED.

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 60°F (ADJ.), TEMPERATURE SENSOR SHALL ENABLE/DISABLE THE RADIANT CEILING PANEL TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.).

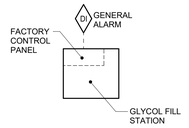
ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

8 STAND ALONE RCP CONTROL

NO SCALE

NOTES:
1. RCP LOCATED IN ROOM 135 SHALL BE CONTROLLED BY VRF IU-102. TCC TO PROVIDE RELAY AND ROUTE CONTROL WIRING BETWEEN RADIANT CEILING PANEL AND VRF UNIT.



SEQUENCE OF OPERATION:

THE GLYCOL FEED SYSTEM CONTROLLER SHALL OPERATE THE SYSTEM TO MAINTAIN THE SPECIFIED PRESSURE IN THE WATER SYSTEM.

ALARMS, INTERLOCKS, AND SAFETIES:

AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR INTERFACE IF THE GLYCOL CONTROLLER INDICATES AN ALARM.

7 GLYCOL FILL STATION CONTROL DIAGRAM

NO SCALE

TEMPERATURE CONTROL GENERAL NOTES:

1. REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
2. EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
3. ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC.
5. ALL MODULATING DAMPER AND VALVE ACTUATORS SHOWN WITH POSITION FEEDBACK SHALL HAVE THE VALVE POSITION DISPLAYED ON GRAPHICAL SCREEN ADJACENT TO THE DAMPER/VALVE COMMAND SIGNAL. DISPLAYED VALVE POSITION SHALL BE FROM THE FEEDBACK DEVICE/CIRCUIT (OUTPUT SIGNAL FROM THE FMCS TO THE ACTUATOR IS NOT ACCEPTABLE)
6. MODULATING SIGNALS SHALL BE DISPAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
7. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DUCT STATIC PRESSURE SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES FAN SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
8. PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DIFFERENTIAL PRESSURE OF ANY PUMPED WATER SYSTEM (E.G. GLYCOL WATER AND THE LIKE) SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES PUMP SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
9. ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
10. EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
11. TCC SHALL WIRE THE CONTROL SIGNAL FROM THE ASSOCIATED AIR HANDLING UNIT TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH SEQUENCE OF OPERATION. TCC SHALL PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
12. TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. TCC SHALL EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.
13. ELEMENT LENGTHS FOR BOTH MIXED AIR TEMP SENSORS AND LOW LIMIT TEMP SWITCHES SHALL BE MINIMUM 1 LINEAR FOOT PER SQUARE FOOT OF COIL SURFACE AREA. PROVIDE MULTIPLE SENSORS AND SWITCHES AS NEEDED TO ACHIEVE REQUIRED ELEMENT LENGTHS. LOCATE RESET SWITCHES MAX. 6'-6" ABOVE ADJACENT STANDING SURFACE (I.E. ROOF, PLATFORM OR FLOOR) SO THE RESET SWITCH CAN BE CYCLED WITHOUT THE NEED FOR A LADDER.
14. CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
15. TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.

CONTROL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
T	AVERAGING TEMPERATURE SENSOR
T	LOW LIMIT TEMPERATURE SWITCH
T	PROBE TEMPERATURE SENSOR
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
P	PRESSURE SENSOR (DUCT MOUNTED)
SP	STATIC SWITCH
AI	ANALOG INPUT
AO	ANALOG OUTPUT
FM	FLOW METER
F	FLOW SWITCH
FS	FLOW SENSOR
FS	AIR FLOW SWITCH
FM	DUCT FLOW METER
DSD	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL
	AIR BLENDER
	MANUAL MOTOR STARTER W/THERMAL OVERLOAD
	FAN
MTR	MOTOR
R	CONTACTOR
	PUMP
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
H	HUMIDITY SENSOR
H	HUMIDITY SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR
C_2	CARBON DIOXIDE SENSOR
C	CARBON MONOXIDE SENSOR (DUCT MOUNTED)
C_2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	FILTER
	TERMINAL AIR BOX
O	OCCUPANCY SENSOR
S	SENSOR
ACT	ACTUATOR
CS	CURRENT SWITCH
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER

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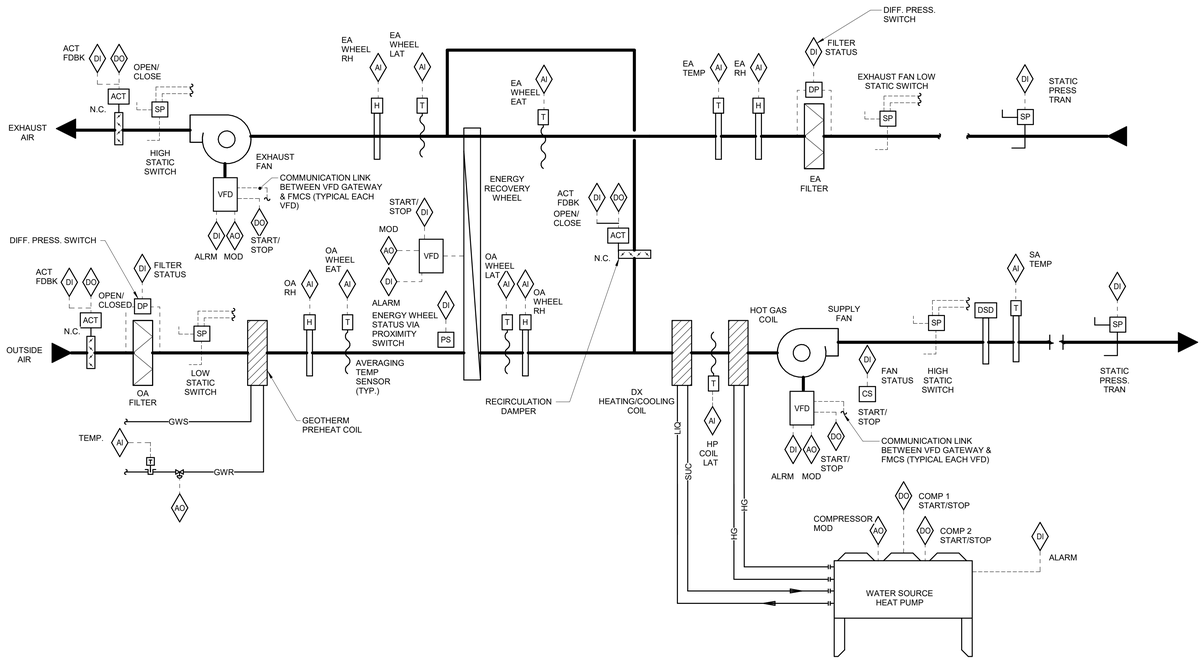
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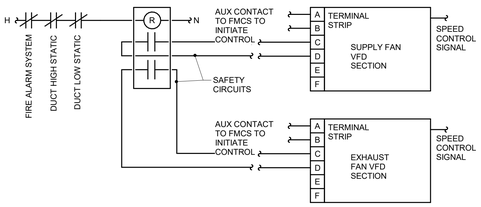
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SUPPLY & EXHAUST FAN VFD CONTROL

SEQUENCE OF OPERATION:

WHEN AHU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR, AND EXHAUST AIR DAMPERS SHALL OPEN AFTER A 30 SECOND (ADJ.) DELAY TO ALLOW STARTUP OF AHU-1.
- AFTER OUTSIDE AIR AND EXHAUST AIR DAMPERS ARE PROVEN OPEN THE SUPPLY FAN SHALL BE ENABLED TO RUN.

SUPPLY FAN OPERATION:
FMCS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

EXHAUST FAN OPERATION:
EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

GLYCOL WATER PRE-HEAT COIL CONTROL:
THE GLYCOL WATER PRE-HEAT COIL SHALL BE USED AS A FREE PRE-HEATER PRIOR TO OUTSIDE AIR ENTERING THE ENERGY RECOVERY WHEEL. THE GLYCOL WATER VALVE SHALL MODULATE TO A MINIMUM OF 10% (ADJ.) OPEN WHENEVER OUTSIDE AIR CONDITIONS ARE LESS THAN 30°F (ADJ.). THE GLYCOL WATER VALVE SHALL MODULATE OPEN BETWEEN 10%-100% TO MAINTAIN A LEAVING COIL GLYCOL WATER TEMPERATURE OF 31°F. (ADJ.)

ENERGY RECOVERY WHEEL CONTROL:
ENERGY RECOVERY WHEEL DISCHARGE AIR TEMPERATURE CONTROL: THE ENERGY RECOVERY WHEEL SHALL BE USED AS THE FIRST STAGE OF HEATING AND COOLING AND SHALL BE SEQUENCED WITH THE DIGITAL SCROLL/DX COIL TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT. THE VFD SPEED SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT SUBJECT TO THE FROST CONTROL OVERRIDE. THE ENERGY RECOVERY WHEEL SHALL BE INDEXED OFF WHENEVER THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE EXHAUST AIR TEMPERATURE UPSTREAM OF THE ENERGY RECOVERY WHEEL AND THE DISCHARGE TEMPERATURE SETPOINT IS LESS THAN THE OUTDOOR AIR TEMPERATURE.

DEFROST CONTROL: OVERRIDE THE HEATING WHEEL SPEED CONTROL TO LIMIT THE LEAVING EXHAUST AIR TEMPERATURE FROM THE WHEEL TO 15°F (ADJ.) AT A RETURN AIR RELATIVE HUMIDITY OF 30% RH AND RESET TO 5°F (ADJ.) AT 20% RH.

PURGE CONTROL: WHEN THE HEAT WHEEL IS DEACTIVATED, THE WHEEL SHALL RUN FOR 20 SECONDS AT MINIMUM SPEED EVERY 30 MINUTES TO KEEP THE ROTOR SURFACE CLEAN. BYPASS DAMPERS SHALL REMAIN OPEN DURING PURGE SEQUENCE.

DISCHARGE AIR TEMPERATURE AND DEHUMIDIFICATION CONTROL:
INSTALL A TEMPERATURE SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF THE SUPPLY FAN AND ALSO A TEMPERATURE SENSOR DOWNSTREAM OF THE HEAT PUMP HEATING/COOLING COIL.

DISCHARGE AIR TEMPERATURE SETPOINT: DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET LINEARLY PER FOLLOWING SCHEDULE:

- DISCHARGE AIR SETPOINT SHALL BE 63°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 80°F (ADJ.).
- DISCHARGE AIR SETPOINT SHALL BE 70°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.).
- MAXIMUM HUMIDITY SETPOINT 55% (ADJ.) .

THE ENERGY RECOVERY WHEEL AND WATER SOURCE HEAT PUMP (WSHP-1) DX COIL SHALL OPERATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN COOLING MODE IF THE EXHAUST AIR RELATIVE HUMIDITY UPSTREAM OF ENERGY WHEEL OR ANY SPACE HUMIDITY SENSORS OF ROOMA 114, 115, OR 123 EXCEEDS 60% RH (ADJ.) SETPOINT THE WSHP MAIN COIL COMPRESSORS SHALL MODULATE TO MAINTAIN HUMIDITY SETPOINT BY RESETTING THE COOLING COIL DISCHARGE AIR SETPOINT TO 55°F (ADJ.) FOR ONE HOUR (ADJ.) BEFORE RELEASE BACK TO NORMAL CONTROL. THE HOT GAS REHEAT COIL SHALL MODULATE TO MAINTAIN A SUPPLY DUCT DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN HEATING MODE THE WSHP COMPRESSOR SHALL MODULATE TO MAINTAIN SUPPLY DUCT DISCHARGE TEMPERATURE SETPOINT.

THE DDC SYSTEM SHALL ALARM TO THE OPERATOR INTERFACE WHEN THE DISCHARGE AIR TEMPERATURE IS 10°F (ADJ.) FROM SETPOINT OR WHEN THE EXHAUST AIR RELATIVE HUMIDITY IS 10% FROM SETPOINT (ADJ.).

ALARMS, INTERLOCKS, AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, AHU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:
- LOW STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- HIGH STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES OUTSIDE AIR SECTION PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER AHU SHALL CONTINUE TO OPERATE:
- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR EXHAUST FAN VFD.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY MERV 8 FILTER BANK EXCEEDS 0.55 INCHES W.G. (ADJ.) OF IT ANY MERV 13 FILTER BANK EXCEEDS 0.6 INCHES W.G. (ADJ.)
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT.
- THE HEAT WHEEL COMES WITH FACTORY EQUIPPED WITH A PROXIMITY SWITCH THAT SHALL PROVIDE A DRY CONTACT IN PUT TO THE DDC SYSTEM. IF THE WHEEL IS INDEXED TO RUN AND TWO SWITCH CLOSURES ARE NOT SEEN WITH 10 MINUTES, AN ALARM WILL BE SENT THROUGH THE DDC SYSTEM SIGNALING A WHEEL ROTATION FAILURE.
- SEND AN ALARM TO OPERATOR INTERFACE IS SUM OF SUPPLY AIR TERMINAL BOXES FALLS BELOW 10% OF SET POINT FOR MORE THAN 5 MINUTES (ADJ.)

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE VFD MONITORING) EXHAUST AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER AHU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE.
- CONDENSING UNIT SHALL BE DENERGIZED.
- SUPPLY FAN AND EXHAUST FAN VFDS SHALL BE DE-ENERGIZED.
- ENERGY RECOVERY WHEEL SHALL STOP.

UNOCCUPIED MODE:
UNIT SHALL BE DISABLED DURING UNOCCUPIED HOURS. OCCUPIED/UNOCCUPIED HOURS SHALL BE COORDINATED WITH OWNER.

RECIRCULATION MODE:
UNIT CONTAINS A RECIRCULATION DAMPER THAT IS MEANT FOR EMERGENCY HEATING/COOLING PURPOSES. DURING RECIRCULATION MODE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE CLOSED AND RECIRCULATION DAMPER SHALL BE OPEN. DURING ALL OTHER TIMES RECIRCULATION DAMPER SHALL BE CLOSED. DURING RECIRCULATION MODE SUPPLY FAN, AND HEATING/COOLING COIL AND HOT GAS COIL SHALL OPERATE UNDER NORMAL CONDITIONS. EXHAUST FAN AND ENERGY WHEEL SHALL BE DISABLED. ALL TERMINAL AIR BOXES SHALL CONTROL TO MAXIMUM SET POINTS. DISCHARGE AIR TEMPERATURE SHALL BE RESET BETWEEN 50°F AND 110°F AS REQUIRED TO MAINTAIN AN EXHAUST AIR TEMPERATURE OF 70°F IN HEATING AND 74°F IN COOLING. RECIRCULATION MODE EMERGENCY OPERATION SHALL HAVE A SELECTABLE ENABLE/DISABLE POINT THRUOGH THE OPERATOR INTERFACE AND THROUGH A TOGGLE IN THE DDC CONTROL PANEL.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE ON AHU GRAPHIC PAGE.

1 ENERGY RECOVERY UNIT - AHU-1

12" = 1'-0"

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Key Plan

Revision	Date

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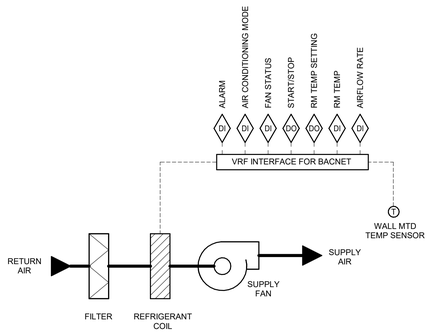
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Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name
CONTROL DIAGRAMS - MECHANICAL

Sheet Number
M551

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SEQUENCE OF OPERATION:

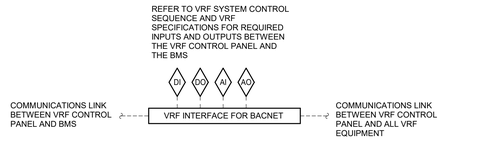
VRF SYSTEM CONTROLS SHALL OPERATE THE FAN COIL UNIT AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

FAN SHALL RUN CONTINUOUSLY MODULATING SPEED WITH ROOM LOAD DURING OCCUPIED MODE. HEATING AND COOLING SHALL CYCLE AS NEEDED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

DURING UNOCCUPIED MODE, FAN AND HEATING/COOLING STAGES SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

THE BMS SYSTEM SHALL COMMUNICATE THE FOLLOWING TEMPERATURE SETPOINTS TO THE VRF CONTROLLER:
A. OCCUPIED COOLING: 74°F(ADJ.)
B. OCCUPIED HEATING: 70°F(ADJ.)
C. UNOCCUPIED COOLING: 76°F(ADJ.)
D. UNOCCUPIED HEATING: 66°F(ADJ.)

1 VRF IDU CONTROL
NO SCALE



SEQUENCE OF OPERATION:
VRF INDOOR UNITS AND VRF HEAT PUMP UNITS SHALL BE CONTROLLED BY FACTORY PROVIDED CONTROL SYSTEM. THE FACTORY CONTROL PANEL SHALL BE PROVIDED WITH A COMMUNICATION LINK BETWEEN THE PROPRIETARY CONTROL SYSTEM TO THE BMS. THE BMS SHALL CONVERT ALL METRIC OUTPUTS FROM VRF CONTROLLER TO IMPERIAL UNITS FOR DISPLAY (I.E. CELSIUS TO FAHRENHEIT)

THE VRF CONTROLLER SHALL PROVIDE THE FOLLOWING MONITORING POINTS TO THE BMS AT A MINIMUM:
- COMPRESSOR STATUS OF EACH HEAT PUMP
- FILTER STATUS OF EACH INDOOR UNIT
- GENERAL ALARM
- SPACE TEMPERATURE
- SPACE THERMOSTAT STATUS
- AIR-CONDITIONING MODE STATUS (HEAT/COOL/VENTILATION)
- FAN STATUS

THE VRF CONTROLLER SHALL PROVIDE THE FOLLOWING CONTROLLABLE/ADJUSTABLE POINTS TO THE BMS AT A MINIMUM:
- START/STOP
- AIR-CONDITIONING MODE
- SPACE TEMPERATURE SETPOINT
- FILTER ALARM RESET
- AIRFLOW RATE SETPOINT (HIGH/MEDIUM/LOW)
- AIR DIRECTION SETTING (FOR EXPOSED UNITS WITH ADJUSTABLE AIR PATTERNS)

VRF CONTROLLER SHALL PROVIDE 0-10 VDC OUTPUT SIGNAL PER OUTDOOR UNIT FOR CONTROL OF MODULATING CONTROL VALVE PROVIDED BY TCC FOR HEAD PRESSURE CONTROL.

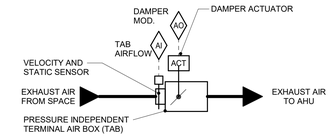
ALARMS, INTERLOCKS & SAFETIES:
BMS SHALL INDICATE AN ALARM TO THE BMS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR:
- A HEAT PUMP CALLS FOR COOLING OR HEATING BUT THE ASSOCIATED FLOW SWITCH DOES NOT PROVE WATER FLOW.
- GENERAL ALARM CONDITION IS REPORTED FROM THE VRF CONTROL PANEL TO THE BMS.
- HIGH CONDENSATE LEVEL ALARM

VRF SYSTEM REPORT GENERATION

BMS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:
- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP. (°F)
- LOOP WATER SUPPLY TEMP. (°F)
- OPERATIONAL STATUS OF HEAT PUMPS (ENABLED/DISABLED)
- VRF LOOP WATER FLOW (GPM)
- EACH VRF HEAT PUMP RETURN WATER TEMP (°F)

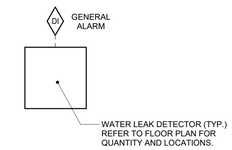
THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE BMS OPERATOR INTERFACE.

2 VRF SYSTEM CONTROL
NO SCALE



SEQUENCE OF OPERATION:
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SUM OF THE SUPPLY TERMINAL AIR BOXES (TAB-S1, TAB-S2, TAB-S3, TAB-S4, TAB-S5, TAB-S6) MINUS THE SUM OF EXHAUST BOXES TAB-E2, TAB-E3, TAB-E4) MINUS 400 CFM (ADJ.) FOR SPACE PRESSURIZATION.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE EXHAUST DUCT DIFFERENTIAL STATIC PRESSURE.

3 TAB CONTROL EXHAUST - VARIABLE
NO SCALE

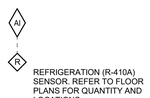


SEQUENCE OF OPERATION:

FMCS SHALL MONITOR EACH WATER LEAK DETECTOR AND ALARM TO THE OPERATOR INTERFACE IF ANY LEAK DETECTOR DETECTS WATER.

CONTROL CONTRACTOR SHALL PROVIDE GRAPHIC WITH FLOOR PLAN OF LIBRARY AND LOCATIONS OF EACH WATER LEAK DETECTOR IN THE APPROPRIATE INSTALLED LOCATION ON THE FLOOR PLAN TO ALERT STAFF OF THE LOCATION OF THE LEAK.

4 WATER LEAK DETECTOR CONTROL
NO SCALE



SEQUENCE OF OPERATION:

FMCS SHALL MONITOR EACH REFRIGERANT SENSOR AND ALARM TO THE OPERATOR INTERFACE IF ANY SENSOR DETECTS R-410A LEVELS ABOVE 1,000 PPM (ADJ.) TO ALERT MAINTENANCE OF A POSSIBLE LEAK FOR REPAIR PURPOSES.

CONTROL CONTRACTOR SHALL PROVIDE GRAPHIC WITH FLOOR PLAN OF LIBRARY AND LOCATIONS OF EACH REFRIGERANT SENSOR IN THE APPROPRIATE INSTALLED LOCATION ON THE FLOOR PLAN TO ALERT STAFF OF THE LOCATION OF THE LEAK.

5 REFRIGERANT SENSOR CONTROL
NO SCALE

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Key Plan

Revision Date

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Sheet Name
CONTROL DIAGRAMS - MECHANICAL

Sheet Number
M552

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AIR HANDLING UNIT

NOTES:
1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
2. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.
3. ENERGY RECOVERY WHEEL SHALL HAVE 310 PURGE CFM.
4. BOTH FANS AND ENERGY WHEEL SHALL HAVE 208-3 POWER.
5. AT LEAST ONE COMPRESSOR SHALL HAVE DIGITAL SCROLL COMPRESSORS.

| | | SUPPLY FAN | | | | | | | | | EXHAUST FAN | | | | | | | | | | DX COIL | | | | | | | | | | | | | | | | | | | ENERGY RECOVERY WHEEL | | | | | | | | | | | | | | | | SA FILTER | | | EA FILTER | | | ELECTRICAL (NOTE 4) | | | | |
|---|---|---

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ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
GB	GB	26 05 26	GROUND BUS
IBT	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
E / E	ECONN	26 05 33	ELECTRICAL CONNECTION
J / J	JB	26 05 33	JUNCTION BOX
	FB-1	26 27 26	MODULAR SYSTEM FLOOR BOX
	FB-2	26 27 26	MODULAR SYSTEM FLOOR BOX
	FF-1	26 27 26	MODULAR SYSTEM FURNITURE FEED
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-#/FCS-#	26 24 19	MANUAL SWITCH / STARTER / COMBINATION STARTER
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
U	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING
	REC-SIM-520R	26 27 26	SIMPLEX RECEPTACLE, 125V
	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPERPROOF, 125V
	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPERPROOF, 125V
	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPERPROOF, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V
U	REC-QUAD-USB	26 27 26	QUAD RECEPTACLE, USB 125V
W	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
DPM	DPM	26 24 16	DIGITAL POWER METER

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
$	SW-1P	26 09 33	SWITCH - SINGLE POLE
$T	SW-1P-ADJ	26 09 33	SWITCH - LOCAL TIMER - USER ADJUSTABLE
$L	SW-1P-LH	26 09 33	SWITCH - LIGHTED HANDLE
$M	SW-1P-M	26 09 33	SWITCH - MOMENTARY CONTACT
$P	SW-1P-PL	26 09 33	SWITCH - PILOT LIGHT
$3	SW-3W	26 09 33	SWITCH - THREE WAY
$4	SW-4W	26 09 33	SWITCH - FOUR WAY
DB	SW-D-6	26 09 33	DIMMER - 600W
DD	SW-D-LED	26 09 33	DIMMER - LED
DD3	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY
DO	SW-OD	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
DV	SW-VD	26 09 33	DIMMER - WALL DIMMER VACANCY SENSOR
LS	SW-LS-D	26 09 33	DAYLIGHT LEVEL SENSOR
LS 3D	SW-LS-D-3Z	26 09 33	DAYLIGHT LEVEL SENSOR
PC	SW-LS-PC	26 09 33	PHOTOCELL
OC D	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
OC D	SW-OC-D-W	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
$0	SW-OC-P-0	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
$02	SW-OC-P-02	26 09 33	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH
OC P	SW-OC-P-P	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
OC P	SW-OC-P-W	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED - WALL MOUNTED
OC U	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
OC A	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
OC U	SW-OC-U-W	26 09 33	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED
VC D	SW-VS-D	26 09 33	VACANCY SENSOR - DUAL TECHNOLOGY
	DS-#	26 28 16	DISCONNECT
	F#	26 51 00	LINEAR LUMINAIRES
	F#	26 51 00	TROFFER
	F#	26 51 00	WALL SCONCE LUMINAIRE
	F#	26 51 00	DOWNLIGHT LUMINAIRE
	F#	26 51 00	INDUSTRIAL LUMINAIRE
	F#	26 51 00	WALL BRACKET LUMINAIRE
	X#	26 51 00	SINGLE FACE EXIT SIGN
	X#	26 51 00	DOUBLE FACE EXIT SIGN
WC	WC	26 09 33	WALL CONTROLLER
SW	SW	26 09 33	ROOM CONTROLLER CONTROL STATION
RC	RC	26 09 33	WALL MOUNTED ROOM CONTROLLER
PS	PS	26 09 33	PARTITION SENSOR
PP	PP	ARCH	PUSH PAD

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
SD	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
SD	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
SD	FA-123	28 31 00	FIRE ALARM IN DUCT SMOKE DETECTOR
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
FT	FA-131	28 31 00	FIRE ALARM MANUAL PULL STATION W/ COVER
H	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR
HP	FA-141	28 31 00	HEAT DETECTOR - 200 DEGREE
MM	FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE
AR	FA-161	28 31 00	FIRE ALARM ADDRESSABLE RELAY
V1 V3 V7 VH	FA-200	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
V1 V3 V7 VH	FA-201	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
A	FA-210	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - WALL MOUNTED
A1 A3 A7 AH	FA-211	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
AW	FA-212	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED - WEATHERPROOF
A	FA-230	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
A1 A3 A7 AH	FA-231	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
RTS/I	FA-240	28 31 00	FIRE ALARM REMOTE INDICATOR AND TEST SWITCH
RI	FA-241	28 31 00	FIRE ALARM REMOTE INDICATOR

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
CB-#	CIRCUIT BREAKER, REFER TO DISCONNECT AND STARTER SCHEDULE	26 14 19
DP-#	DISTRIBUTION PANEL	26 24 16
DS-#	DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 28 16
F#	LUMINAIRE TYPE	26 51 00
FAA-#	FIRE ALARM - ANNUNCIATOR	28 31 00
FAP-#	FIRE ALARM - CONTROL PANEL	28 31 00
FB-#	FLOOR BOX	26 27 26
FDS-#	FUSIBLE DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 28 16
FF-#	FURNITURE FEED	26 27 26
LC-#	LIGHTING CONTACTOR, REFER TO CONTACTOR SCHEDULE	26 28 31
LCS-#	LIGHTING CONTROL STATION	26 09 33
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
NEP-#	FIRE ALARM - EXTENDER PANEL	28 31 00
PP-#	POWER PEDESTAL	26 27 26
SPD-#	SURGE PROTECTION DEVICE	26 43 00
TC-#	TIME SWITCH	26 09 33

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	T.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	E.C.	E.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.	
FLOOR BOX (ROUGH-IN)	T & E 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.

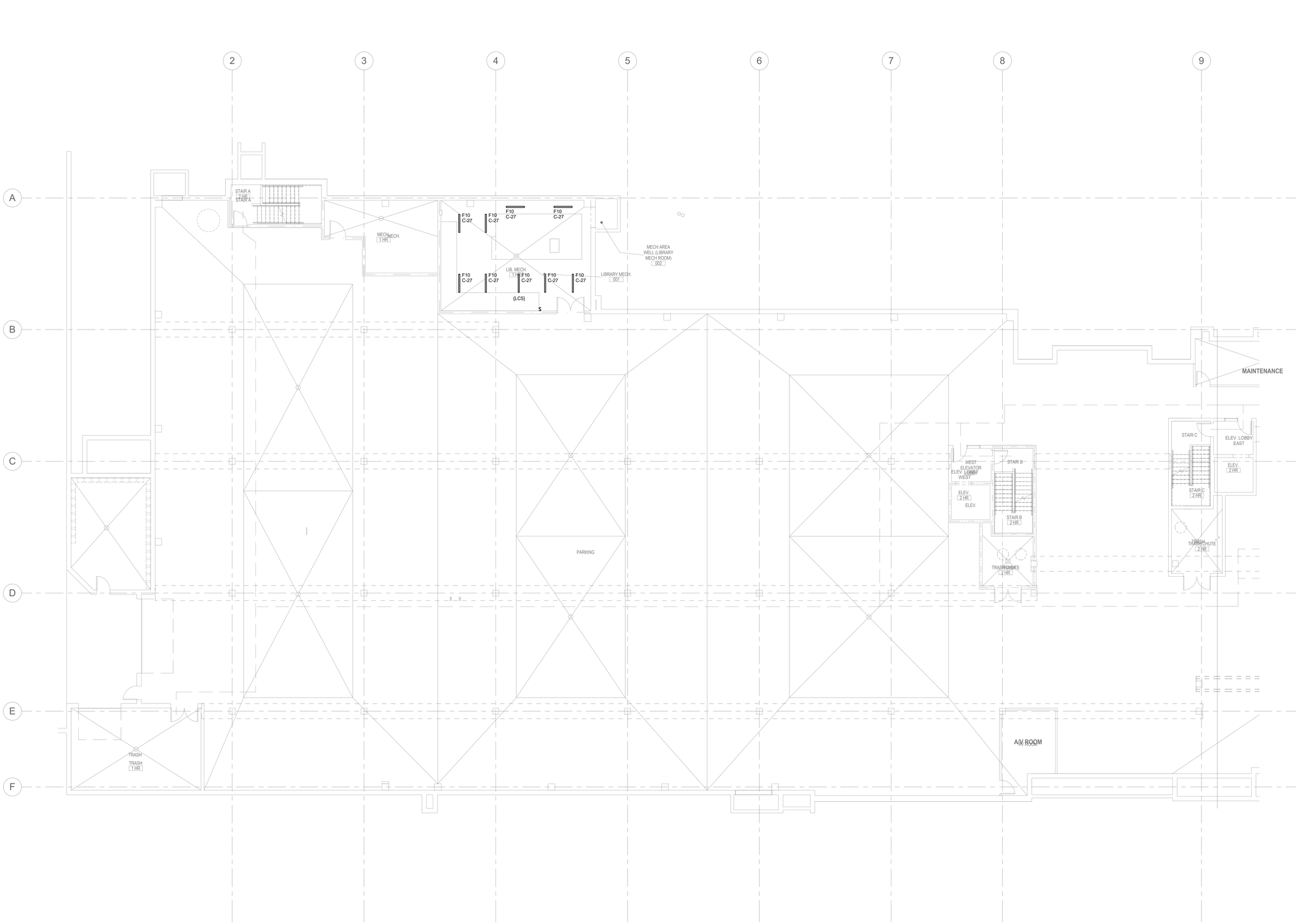
FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	— — —

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LEVEL 0 FLOOR PLAN - ELECTRICAL - LIGHTING

1 — 1/8" = 1'-0"

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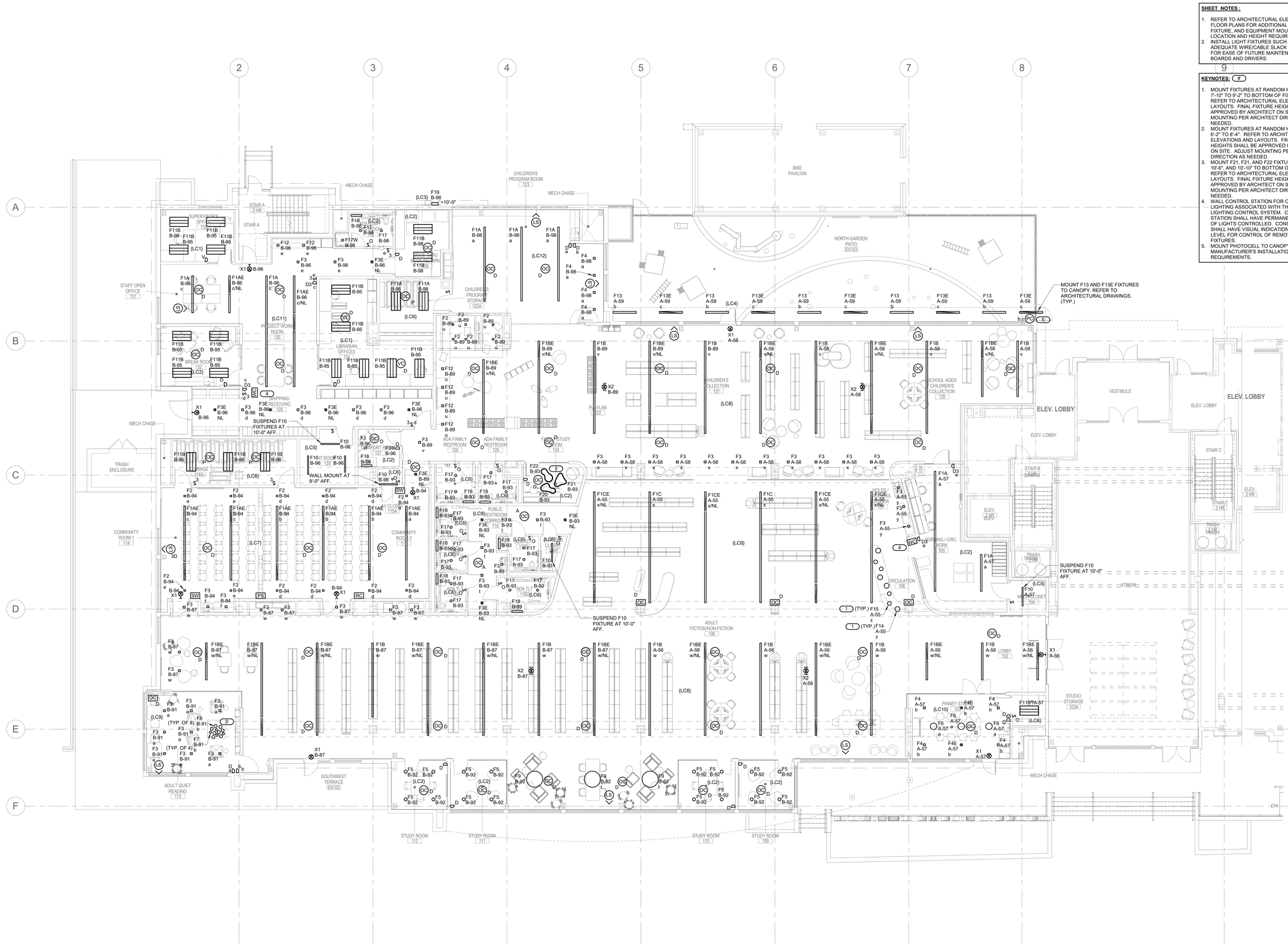
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Sheet Name
LEVEL 0 FLOOR PLAN - LIGHTING

Sheet Number
E100

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SHEET NOTES :

1. REFER TO ARCHITECTURAL ELEVATIONS AND FLOOR PLANS FOR ADDITIONAL DEVICE, FIXTURE, AND EQUIPMENT MOUNTING LOCATION AND HEIGHT REQUIREMENTS.
2. INSTALL LIGHT FIXTURES SUCH THAT ADEQUATE WIRE/CABLE SLACK IS PROVIDED FOR EASE OF FUTURE MAINTENANCE OF LED BOARDS AND DRIVERS.

KEYNOTES: (#)

1. MOUNT FIXTURES AT RANDOM HEIGHTS FORM 7'-10" TO 9'-2" TO BOTTOM OF FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
2. MOUNT FIXTURES AT RANDOM HEIGHTS FROM 6'-2" TO 8'-4". REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
3. MOUNT F21, F21, AND F22 FIXTURES AT 10'-2", 10'-6", AND 10'-10" TO BOTTOM OF FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
4. WALL CONTROL STATION FOR OPEN AREA LIGHTING ASSOCIATED WITH THE DISTRIBUTED LIGHTING CONTROL SYSTEM. CONTROL STATION SHALL HAVE PERMANENT MARKING OF LIGHTS CONTROLLED. CONTROL STATION SHALL HAVE VISUAL INDICATION OF LIGHT LEVEL FOR CONTROL OF REMOTE LIGHT FIXTURES.
5. MOUNT PHOTOCELL TO CANOPY PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

1 LEVEL 1 FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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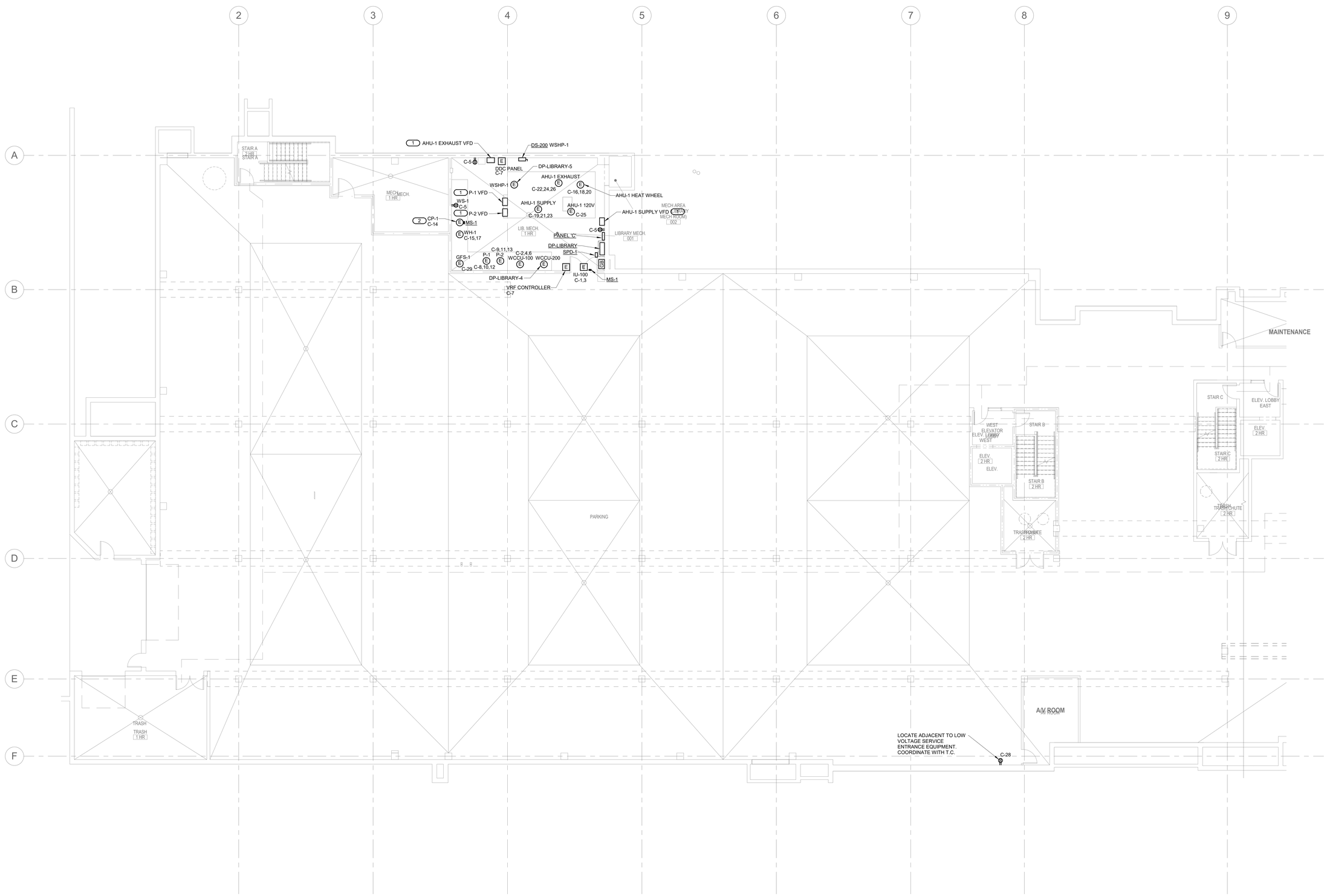
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LEVEL 1 FLOOR PLAN - LIGHTING

Sheet Number
E101

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KEYNOTES: (#)

1. VFD PROVIDED BY TCC AND INSTALLED BY E.C.
2. E.C. SHALL INSTALL AQUASTAT PROVIDED WITH CP-1. COORDINATE WITH P.C.



NORTH 1

LEVEL 0 FLOOR PLAN - ELECTRICAL - POWER

1/8" = 1'-0"

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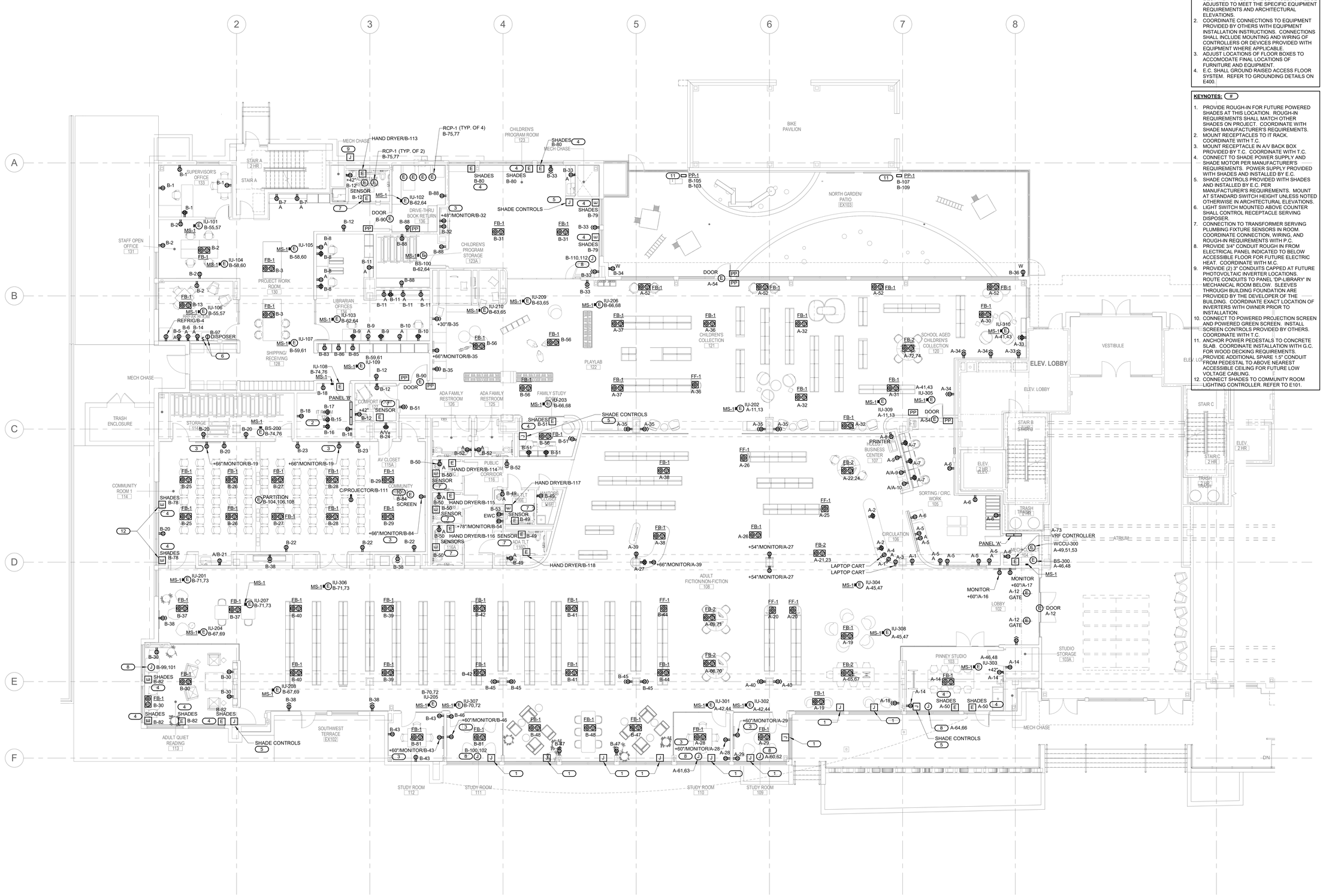
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Sheet Name
LEVEL 0 FLOOR PLAN - POWER

Sheet Number
E200

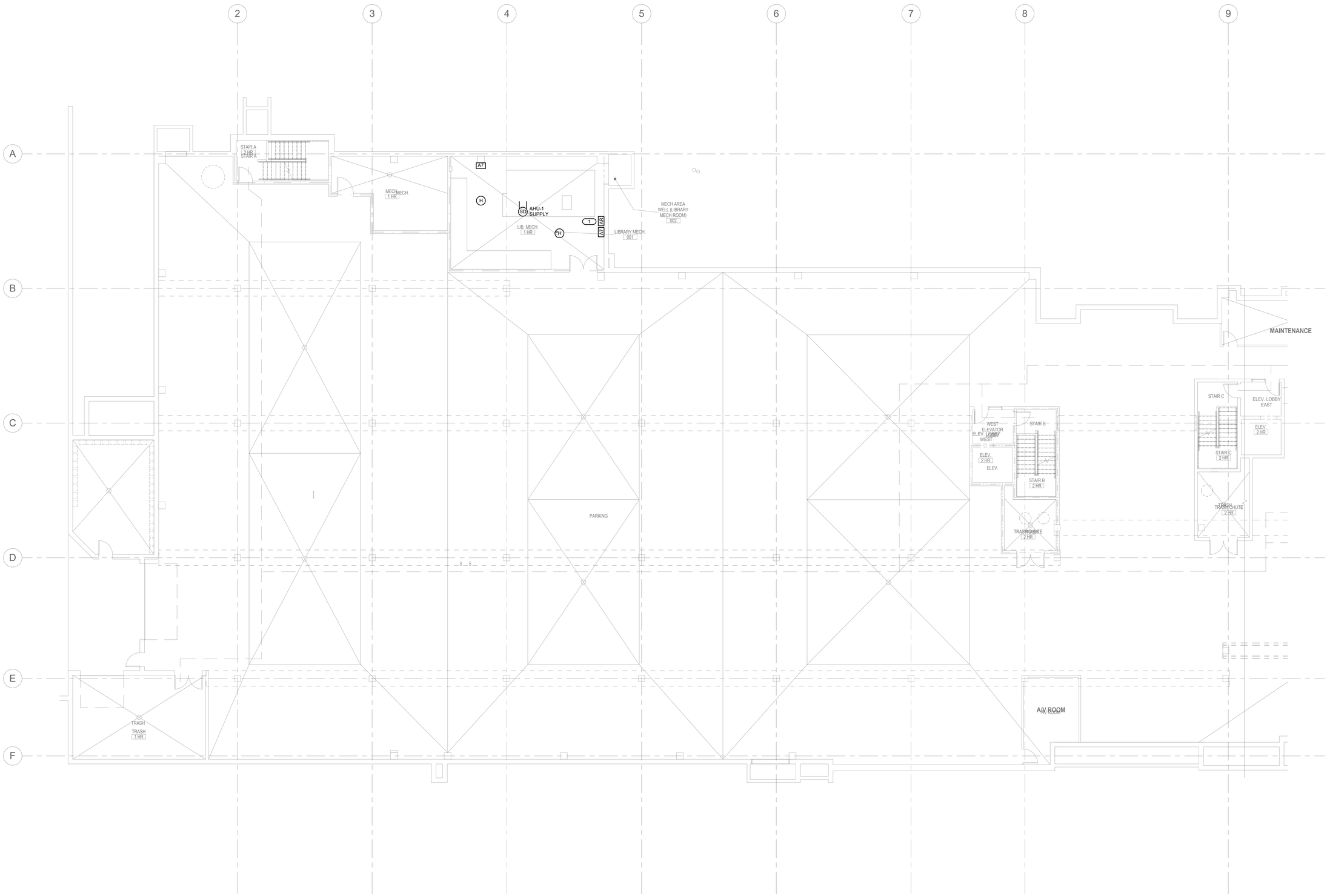
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MECH CHASE
HAND DRYER/B-113
RCP-1 (TYP. OF 4)
B-75,77
RCP-1 (TYP. OF 2)
B-75,77
CHILDREN'S PROGRAM ROOM 123
SHADES B-80
MECH CHASE
BIKE PAVILION
STAIR A 2 HR
SUPERVISOR'S OFFICE 133
STAIR A
SENSOR
DOOR
DRIVE-THRU BOOK RETURN 136
+48"/MONITOR/B-32
SHADE CONTROLS
SHADES B-79
NORTH GARDEN/ PATIO EX103
PP-1 B-105 B-103
PP-1 B-107 B-109
STAFF OPEN OFFICE 131
PROJECT WORK ROOM 130
CHILDREN'S PROGRAM STORAGE 123A
LIBRARIAN OFFICES 127
SHIPPING/ RECEIVING 128
REFRIG/B-4
DISPOSER
+30"/B-35
+66"/MONITOR/B-35
PLAYLAB 122
CHILDREN'S COLLECTION 121
SCHOOL AGED CHILDREN'S COLLECTION 120
VESTIBULE
ELEV. LOBBY
MECH CHASE
TRASH ENCLOSURE
STORAGE 114
PANEL 'B'
COMFORT ROOM 117
IT ROOM 118
ADA FAMILY RESTROOM 126
ADA FAMILY RESTROOM 125
FAMILY STUDY ROOM 124
SHADE CONTROLS
AV CLOSET 115A
AV/a B-24
C/PROJECTOR/B-111
COMMUNITY 110
B-84 SCREEN
PUBLIC CORRIDOR 116
HAND DRYER/B-117
HAND DRYER/B-114
HAND DRYER/B-115
HAND DRYER/B-116
HAND DRYER/B-118
SENSORS
ADA TLT 116A
ADA TLT 116B
EWC
+78"/MONITOR/B-54
+66"/MONITOR/B-84
+66"/MONITOR/B-19
+66"/MONITOR/A-39
+54"/MONITOR/A-27
+60"/MONITOR/B-46
+60"/MONITOR/B-43
+60"/MONITOR/A-29
+60"/MONITOR/A-28
COMMUNITY ROOM 1 114
PARTITION B-104,106,108
SHADES B-78
SHADES B-82
ADULT QUIET READING 113
SOUTHWEST TERRACE EX102
SHADE CONTROLS
ADULT FICTION/NON-FICTION 108
SORTING / CIRC. WORK 105
CIRCULATION 106
PRINTER
BUSINESS CENTER 107
ELEV. 2 HR ELEV
STAIR B 2 HR STAIRS
STAIR C 2 HR
TRASH 2 HR TRASH
LAPTOP CART
LAPTOP CART
PANEL 'A'
MECH CHASE 104
VRF CONTROLLER
WCCU-300
A-49,51,53
BS-300
A-46,48
ATRIUM
MONITOR +60"/A-17
MONITOR +60"/A-16
LOBBY 102
A-12 GATE
DOOR A-12
STUDIO STORAGE 103A
PINNEY STUDIO 103
SHADES A-50
A-64,66
SHADE CONTROLS
MECH CHASE
STUDY ROOM 112
STUDY ROOM 111
STUDY ROOM 110
STUDY ROOM 109
DN
ELEV. 2 HR
TRASH 2 HR
TRASH
DOOR A-54
DOOR A-90
DOOR B-90
DOOR A-54
DOOR A-12
DOOR B-90
DOOR A-54
DOOR A-12
DOOR A-54
DOOR A-54
DOOR A-54

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KEYNOTES: (#)

1. ADDRESSABLE RELAY FOR AHU-1 SHUTDOWN. MOUNT WITHIN 3' OF AHU CONTROLLER. COORDINATE WITH M.C. AND TCC.



1 LEVEL 0 FLOOR PLAN - ELECTRICAL - SYSTEMS

1/8" = 1'-0"

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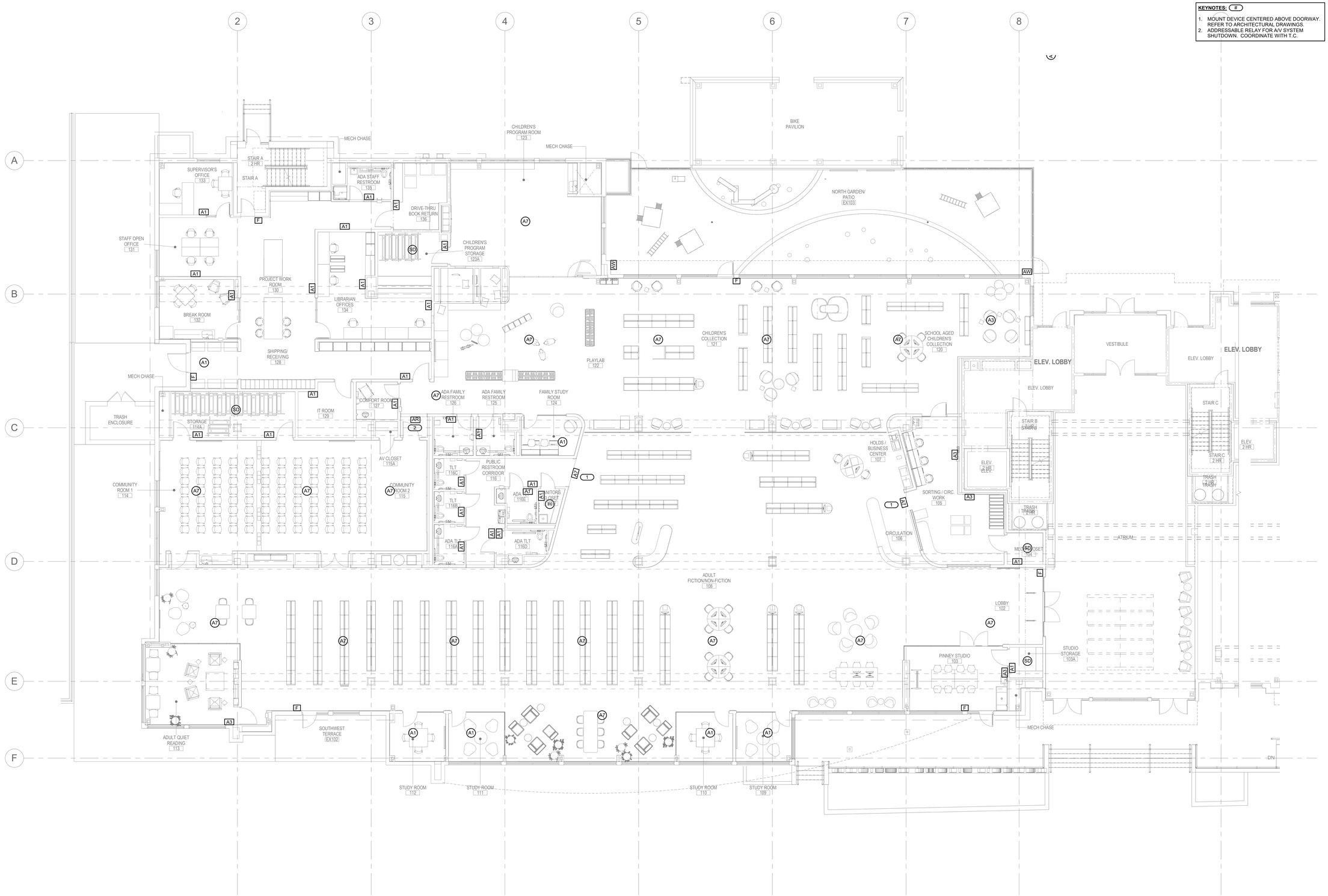
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Sheet Name
LEVEL 0 FLOOR PLAN - SYSTEMS

Sheet Number
E300

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SHEET NOTES :

1. REFER TO ARCHITECTURAL ELEVATIONS AND FLOOR PLANS FOR ADDITIONAL DEVICE, FIXTURE, AND EQUIPMENT MOUNTING LOCATION AND HEIGHT REQUIREMENTS.

KEYNOTES: (#)

1. MOUNT DEVICE CENTERED ABOVE DOORWAY. REFER TO ARCHITECTURAL DRAWINGS.
2. ADDRESSABLE RELAY FOR A/V SYSTEM SHUTDOWN. COORDINATE WITH T.C.

1 LEVEL 1 FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"

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LEVEL 1 FLOOR PLAN - FIRE ALARM

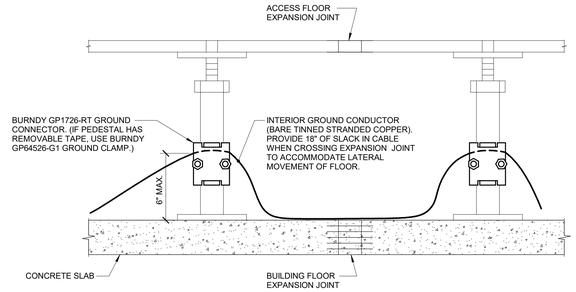
Sheet Number
E301

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SEQUENCE OF OPERATION / SYSTEM INPUTS		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	SMOKE DAMPER CONTROL SEQUENCE	AHU SHUTDOWN SEQUENCE	SOUND MASKING/ PAGING SYSTEMS SHUTDOWN SEQUENCE	A/V SYSTEM SHUTDOWN
							ARD	AR	AR	AR
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION.			X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				X						
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X						
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X						
FIRE ALARM PANEL MANUAL FIRE DRILL			X		X	X				
MANUAL PULL STATION	FT F	X			X	X			X	X
SMOKE DETECTOR	SD	X			X	X			X	X
HEAT DETECTOR	H HF HX	X			X	X			X	X
SMOKE DETECTOR FOR HVAC CONTROL	SD SD D		X				X	X		

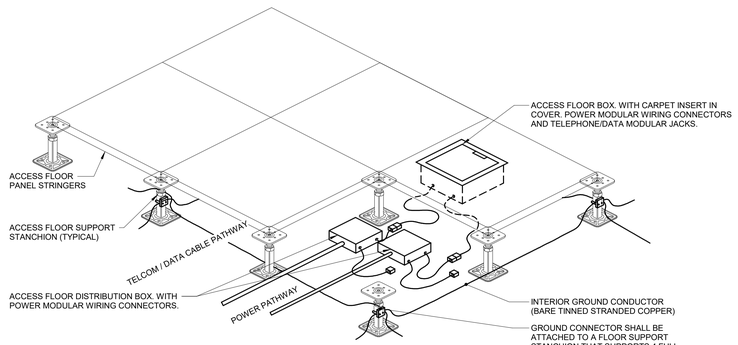
1 FIRE ALARM OPERATION MATRIX

NO SCALE



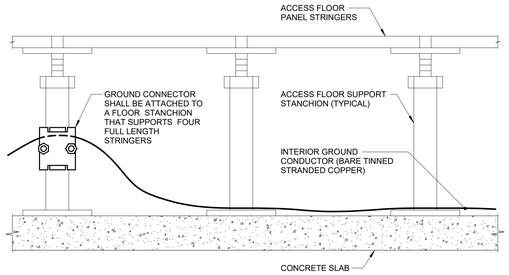
2 ACCESS FLOOR EXPANSION JOINT DETAIL

NO SCALE



3 ACCESS FLOOR GROUNDING DETAIL

NO SCALE



4 ACCESS FLOOR GROUNDING DETAIL

NO SCALE

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516 COTTAGE GROVE ROAD
MADISON, WI

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Key Plan

Revision Date

OPN Project No.
17609000

Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name
ELECTRICAL DETAILS

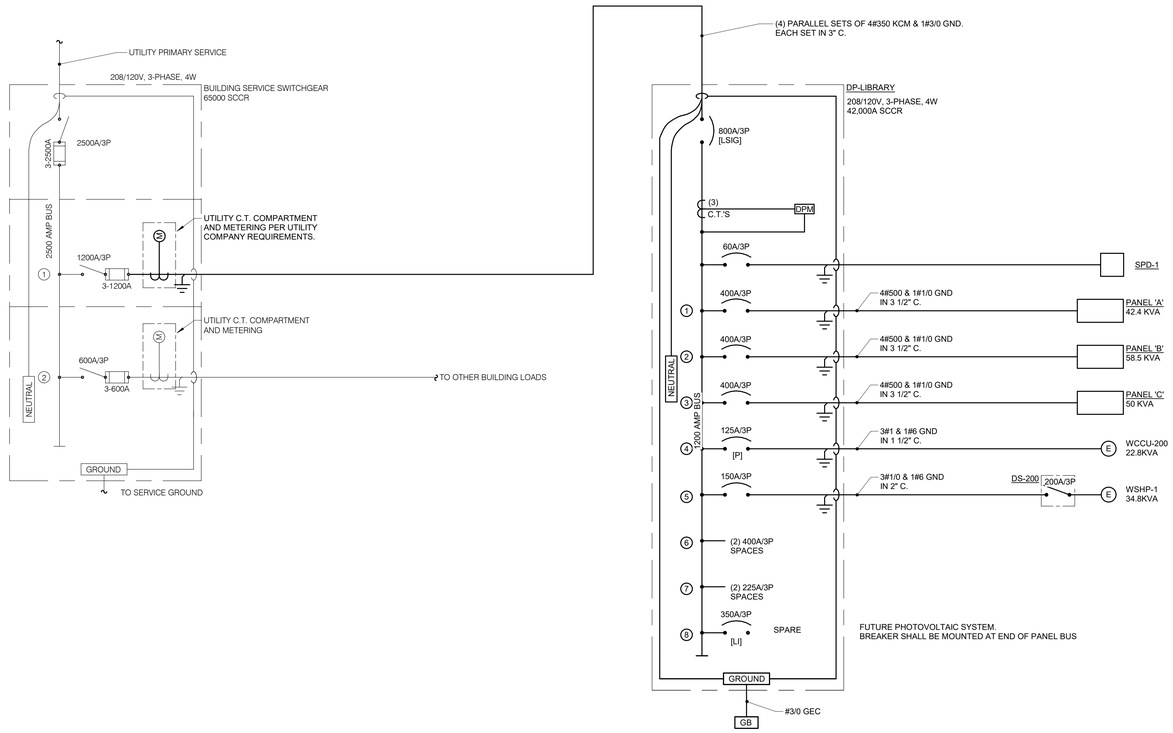
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1 ONE-LINE DIAGRAM

NO SCALE

ONE LINE DIAGRAM NOTES

1. AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
2. INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT "I" INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS.
3. INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
4. INDICATES OVERLOADS SIZED PER MOTOR NAMEPLATE FULL LOAD AMPERES.
5. INDICATES STARTER NEMA SIZE.
6. AF INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.
7. AT INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.
8. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT].
9. (GF) INDICATES GROUND FAULT RELAY.
10. CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
11. DPM INDICATES DIGITAL POWER MONITOR.
12. (M) INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY.
13. INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.
14. [P] INDICATES PADLOCK HASP PROVIDED FOR BREAKER.

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Sheet Name
ELECTRICAL ONE-LINE DIAGRAMS

Sheet Number
E500

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LUMINAIRE SCHEDULE

(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:
RE - RECESSED	FL - FLUORESCENT	A - .125 ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 .125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC
DOOR:	O - OTHER (SEE DESCRIPTION	L - LOW IRIDESCENT SPECULAR ALUM.
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)
RS - REGRESSED STEEL		
	(TYPE) BALLAST/DRIVER:	(TYPE) BALLAST/DRIVER:
FINISH:	DIM07 - LINE DIMMING	EB - ELECTRONIC BALLAST
PAF - PAINT AFTER FABRICATION	DIM10 - 0-10V DIMMING	EM - EMERGENCY BATTERY / DRIVER
CSA - FINISH SELECTION BY ARCHITECT	HL - HIGH / LOW LEVEL	DALI - DIGITAL DIMMING BALLAST
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AND EMERGENCY LIGHTING EQUIPMENT 26 52 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
LAMP CORRELATED COLOR TEMPERATURE 4000°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	DIMENSIONS L	W	H	DIA.	MTG	LAMPS TYPE	QTY	MODEL	BALLAST/DRIVER VOLTS	TYPE	L/L	APPROVED MANUFACTURER
F1A	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS.		4"	4"			LED	1	MAX 30 WATT MIN 3000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LAEQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F1AE	SIMILAR TO F1A. PROVIDE WITH 1100 LUMEN EMERGENCY BATTERY BACKUP FOR SECTION INDICATED ON PLANS.		4"	4"			LED	1	MAX 30 WATT MIN 3000 LUMEN PER 4' SECTION	120 V	DIM10 EM	A	LEDALITE TRUGROOVE LAEQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F1B	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS		4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LADQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F1BE	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS. PROVIDE WITH 1100 LUMEN BATTERY BACKUP FOR SECTION INDICATED ON PLANS.		4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10 EM	A	LEDALITE TRUGROOVE LADQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F1C	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, BLACK TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS.		4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LADQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F1CE	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, BLACK TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS. PROVIDE WITH 1100 LUMEN EMERGENCY BATTERY BACKUP FOR SECTION INDICATED ON PLANS.		4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10 EM	A	LEDALITE TRUGROOVE LADQS A-LIGHT D9 SERIES AXIS LIGHTING BBRLED
F2	RECESSED TRIMLESS ADJUSTABLE DOWNLIGHT, WHITE HOUSING, FROSTED LENS, ADJUSTABLE 0-25 DEGREES, 33-46 DEGREE BEAM SPREAD.	3"	3"	3'-0"		RE	LED	1	MAX 10 WATT MIN 850 LUMEN	120 V	DIM10	O	INTERLUX WG-B150SRG XTA-940 965 46 UNV FR DELTALIGHT CARREE TRIMLESS OK LED KREON KUDWN-80 USAI LIGHTING BEVELED MINI
F3	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR.	4"	4"	0"		RE	LED	1	MAX 35 WATT MIN 2100 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 28 40 12 D USAI LIGHTING BEVELED 2.1
F3E	SIMILAR TO F3. PROVIDE WITH 20W EMERGENCY BATTERY BACKUP. MOUNT ABOVE NEAREST ACCESSIBLE CEILING.	4"	4"	0"		RE	LED	1	MAX 35 WATT MIN 2100 LUMEN	120 V	DIM10 EM	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 28 40 12 D USAI LIGHTING BEVELED 2.1
F4	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR.	4"	4"	0"		RE	LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 11 40 12 D USAI LIGHTING BEVELED 2.1
F4E	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR. PROVIDE WITH 7W EMERGENCY BATTERY BACKUP.	4"	4"	0"		RE	LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10 EM	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 11 40 12 D USAI LIGHTING BEVELED 2.1
F5	SURFACE MOUNT DOWNLIGHT, CAST ALUMINUM HOUSING, TEMPERED GLASS LENS. BLACK FINISH.			6"	8"	CL	LED	1	MAX 40 WATT MIN 2700 LUMENS	120 V	DIM10	G	BEGA 66984 LITON DL360 USAI LIGHTING BEVELED LBRP6
F6	PENDANT FIXTURE, REFLECTOR SHADE WITH UPLIGHT DIFFUSER, FROSTED LENS.			1'-6"	1'-5"	SP	LED	1	MAX 54 WATT MIN 4200 LUMENS (SPLIT 50/50 UP/DOWN)	120 V	DIM10	N	BETA-CALCO 20 1801 40 HG DS PATHWAY LIGHTING P50LB79V
F7	PENDANT GLOBE, DARK BRONZE BASE AND CRYSTAL GLASS. RELABEL LAMP SOCKET FOR 10W MAX.			7"	6"	SP	LED	1	MAX 10 WATT MIN 280 LUMEN	120 V	DIM07	G	HENNEPIN MADE VELA
F8	PENDANT GLOBE, DARK BRONZE BASE AND CRYSTAL GLASS. RELABEL LAMP SOCKET FOR 10W MAX.			6"	8"	SP	LED	1	MAX 10 WATT MIN 280 LUMEN	120 V	DIM07	G	HENNEPIN MADE CARINA
F9	CIRCULAR PENDANT WITH ANGLED SIDE, LAMINATED FABRIC SHADE WITH SMOKE FINISH, AIRCRAFT CABLE SUSPENDED.			8"	3'-6"	SP	LED	1	MAX 150 WATT MIN 8800 LUMENS	120 V	DIM10	N	BARBICAN TAPIR 16-67 42D 10H ACW OCL LIGHTING
F10	LED LENSED STRIP LIGHT, 180 DEGREE FROSTED LENS. STEEL WITH BAKED ENAMEL FINISH.	4'-0"	3"	3"		SP/CL	LED	1	MAX 60 WATT MIN. 5800 LUMENS 4000K	120 V	DIM10		EATON SNLED LITHONIA ZL1D DAYBRITE LF H.E. WILLIAMS 75L COLUMBIA LCL LSI SDL MERCURY LW3
F11A	RECESSED INDIRECT/DIRECT, ACRYLIC DIFFUSER.	4'-0"	2'-0"	3 1/2"		RE	LED	1	MAX 46 WATT MIN 5400 LUMEN	120 V	DIM10		DAY-BRITE 2FG G 54L 840 4 D UNV METALUX 24CZ LD5 55 COLUMBIA LIGHTING LCAT24
F11B	RECESSED INDIRECT/DIRECT, ACRYLIC DIFFUSER.	4'-0"	2'-0"	3 1/2"		RE	LED	1	MAX 70 WATT MIN 7400 LUMEN	120 V	DIM10		DAY-BRITE 2FG G 74L 840 4 DS METALUX 24CZ LD5 50 COLUMBIA LIGHTING LCAT24
F12	4" SQUARE OPEN DIRECTIONAL DOWNLIGHT, 45 DEGREE BEAM SPREAD, 360 DEGREE ROTATION WITH UP TO 35 DEGREE ANGLE, STANDARD FINISH AND COLOR.	4"	4"	0"		RE	LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4AS KURT VERSEN J2335 11 40 12 D USAI LIGHTING BEVELED 2.1
F13	4' OUTDOOR LINEAR FIXTURE WITH ASYMETRIC DOWN LIGHT ONLY, FULL CUTOFF DISTRIBUTION, SILVER FINISH, WET LOCATION LISTED.	5'-0"	5"	5"		CL	LED	1	MAX 55 WATT MIN 6000 LUMEN	120 V	DIM10	G	BEGA 24314 ARCHITECTURAL AREA LIGHTING PURSUIT RN LUMENWERX VIAWETASYS
F13E	SIMILAR TO F13. PROVIDE WITH 20W MIN. EMERGENCY BATTERY DRIVER. BODINE OR EQUAL. LOCATE DRIVER ABOVE NEAREST ACCESSIBLE CEILING.	5'-0"	5"	5"		CL	LED	1	MAX 55 WATT MIN 6000 LUMEN	120 V	DIM10 EM	G	BEGA 24314 ARCHITECTURAL AREA LIGHTING PURSUIT RN LUMENWERX VIAWETASYS
F14	LARGE PENDANT ROUND FROSTED GLASS, STAINLESS STEEL CANOPY AND STEM FINISH.			3"	1'-1"	SP	LED	1	MAX 30 WATT MIN 1600 LUMEN	120 V	DIM10	O	ARTEMIDE ITKA 50 BEGA 45140
F15	SMALL PENDANT ROUND FROSTED GLASS, STAINLESS STEEL CANOPY AND STEM FINISH.			3"	10"	SP	LED	1	MAX 22 WATT MIN 1200 LUMEN	120 V	DIM10	O	ARTEMIDE ITKA 35 BEGA 45139
F17	OPEN DOWNLIGHT, MATTE CLEAR SELF TRIMMING REFLECTOR. 0.75 - 1.2 SPACING RATIO. REMODEL FIXTURE OR REMOTE DRIVER FOR EASE OF MAINTENANCE.			9 1/2"	6"	RE	LED	1	MINIMUM 1500 LUMEN	120 V	DIM10	N	INTENSE LIGHTING SS6G3DRR GOTHAM EVO ALED PRESCOLITE RLC6

LUMINAIRE SCHEDULE

(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:
RE - RECESSED	FL - FLUORESCENT	A - .125 ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 .125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC
DOOR:	O - OTHER (SEE DESCRIPTION	L - LOW IRIDESCENT SPECULAR ALUM.
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)
RS - REGRESSED STEEL		
	(TYPE) BALLAST/DRIVER:	(TYPE) BALLAST/DRIVER:
FINISH:	DIM07 - LINE DIMMING	EB - ELECTRONIC BALLAST
PAF - PAINT AFTER FABRICATION	DIM10 - 0-10V DIMMING	EM - EMERGENCY BATTERY / DRIVER
CSA - FINISH SELECTION BY ARCHITECT	HL - HIGH / LOW LEVEL	DALI - DIGITAL DIMMING BALLAST
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST

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ITEM	DESCRIPTION	DIMENSIONS L	W	H	DIA.	MTG	LAMPS TYPE	QTY	MODEL	BALLAST/DRIVER VOLTS	TYPE	L/L	APPROVED MANUFACTURER
F17W	SIMILAR TO F17, EXCEPT WET LOCATION LISTED.			9 1/2"	6"	RE	LED	1	MINIMUM 1500 LUMEN	120 V	DIM10	N	INTENSE LIGHTING SS6G3DRR GOTHAM EVO ALED PRESCOLITE RLC6
F18	VANITY FIXTURE, TEMPERED GLASS SHADE, SATIN FINISH.	2'-3"	3"	5"		RE	LED	1	MAX 40 WATT MIN 3600 LUMEN	120 V	DIM10	O	MODERN FORMS WS-25827 PLC LIGHTING BROOKLAND 55014
F19	LED WALL PACK LUMINAIRE, GLASS LENS, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, DARK BRONZE, LISTED WET LOCATION. TYPE IV DISTRIBUTION.	1'-4"	1'-4"	9 1/2"		WL	LED	1	MAX 75 WATTS MINIMUM 5500 LUMENS	120 V		G	ARCHITECTURAL AREA LIGHTING M2WD LIGMAN LIGHTING UTR 31712
F20	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-3"	2'-3"	3"	0"	SP	LED	1	MAX 67 WATT MINIMUM 6100 LUMEN	120 V	DIM10		BETA-CALCO PUZZLE 99 2111
F21	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-3"	2'-11"	3"	0"	SP	LED	1	MAX 67 WATT MINIMUM 6400 LUMEN	120 V	DIM10		BETA-CALCO PUZZLE 99 0111
F22	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-0"	2'-6"	3"	0"	SP	LED	1	MAX 63 WATT MINIMUM 5800 LUMEN	120 V	DIM10		BETA-CALCO PUZZLE 99 1111
X1	EDGE-LIT SINGLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRORR LENS AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS. EMERGENCY BATTERY BACKUP.	1'-1"	2"	9"		CL	LED	1	L.E.D.	120 V	EM	O	LITHONIA LRP 1 DUAL-LITE LE S PHILIPS CHLORIDE EVENLITE SOV 1C ISOLITE ELT
X2	EDGE-LIT DOUBLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR BACKGROUND AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS. EMERGENCY BATTERY BACKUP	1'-1"	2"	9"		CL	LED	1	L.E.D.	120 V	EM	O	LITHONIA LRP 2 DUAL-LITE LS D PHILIPS CHLORIDE EVENLITE SOV 2M ISOLITE ELT

LIGHTING SEQUENCE OF OPERATION

PLAN ID	LIGHTING SWITCHED
{LC1}	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights turned on using wall controller. ADJUST: The dimming luminaires are raised / lowered using wall controller. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
{LC2}	Sequence: Dimmed lights are occupancy controlled in this space. ON: The lights turn on to last switched state upon occupancy control. ADJUST: The dimming luminaires are raised / lowered using wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
{LC3}	Sequence: Switched luminair is photocell controlled in this space. ON: The lights turn on upon photocell control. OFF: The lights turn off upon photocell control.
{LC4}	Sequence: Dimmed lights are photocell controlled in this space. Half shaded fixtures are photocell controlled only. ON: The dimmed lights turn on to last switched state and non-dimmed lights turn on to full output upon photocell control. ADJUST: The dimmed lights other than half shaded fixtures, are raised / lowered using wall controller in Children's Program Room 123. OFF: The lights turn off using a wall controller and photocell control. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
{LC5}	Sequence: Switched lights are controlled in this space. ON: The lights turn on using switches. OFF: The normal lights turn off using switches.
{LC6}	Sequence: Switched luminaires are occupancy controlled in this space. ON: The lights turn on to last switched state upon occupancy control. OFF: The lights turn off using switches. After the space has been vacant for 20 minutes, the lights will automatically turn off.
{LC7}	Sequence: Multiple zones of dimmed lights are occupancy controlled in this space with 6 presets and 6 zones. Daylight sensing also controls fixtures within the daylit zones. Two levels of shades are raised/lowered with room controller. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Lights are turned on to preset levels at wall controllers. When room partition is open, all fixtures are controlled by any wall controller. When room partition is closed, only fixtures within the same room as the wall controller are controlled. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylit zones. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on. Shades are raised lowered with wall controller in each location of preset control.
{LC8}	Sequence: Multiple zones of dimmed lights are occupancy controlled in this space with 4 presets and 7 zones. Daylight sensing also controls fixtures within the daylit zones. Emergency night light fixtures remain on at all times. Light fixtures with subscripts 't' through 'z' in open areas 102, 106, 107, 108, 116, 120, 121, and 122 are controlled by wall controllers located at shipping/receiving area and circulation desk. ON: Zones turn on to last switched state upon occupancy control. Activation of any occupancy sensor in any zone will turn on all zones. ADJUST: Lights are turned on to preset levels and individual lighting zones are raised / lowered using a wall controller at shipping/receiving area or circulation desk. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylit zones. Half shaded fixtures or portions of fixtures will remain on at full illumination all times for egress purposes. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 30 minutes, all zones will automatically turn off simultaneously. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
{LC9}	Sequence: Two zones of dimmed lights are occupancy controlled in this space with daylight sensing for fixtures within the daylit zones. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Individual lighting zones are raised / lowered using wall controller. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylit zones. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
{LC10}	Sequence: Two zones of dimmed lights are occupancy controlled in this space. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Individual lighting zones are raised / lowered using wall controller. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
{LC11}	Sequence: One zone of dimmed and two zones of switched lights are occupancy controlled in this space with daylight sensing for fixtures within the daylit zones. Half shaded fixtures will remain on at all times. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Dimmed lighting zone is raised / lowered using wall controllers. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylit zones. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
{LC12}	Sequence: Dimmed lights are occupancy controlled in this space with daylight sensing for fixtures within the daylit zones. ON: The lights turn on to last switched state upon occupancy control. ADJUST: The dimmed lights are raised / lowered using wall controller. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylit zones. OFF: The lights turn off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	REMARKS:	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - METLING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		

ITEM	DISCONNECT TYPE & RATING TYPE	RATING	CIRCUIT VOLTAGE	POLES	STARTER NEMA SIZE	STARTER TYPE	NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
DS-200	NF	200 A	480 V	3			1		SQUARE D 3110 HU364 EATON TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
MS-1		16 A	208 V	2	0	MS	1	TO, HL	SQUARE D 2510 FG5 EATON TYPE MS GENERAL ELECTRIC CR101 SIEMENS TYPE SMF

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Owner

CITY OF MADISON WISCONSIN

MADISON PUBLIC LIBRARY

MADISON PUBLIC LIBRARY Foundation

Project

PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI

MEP/T Engineer

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1800 DEMING WAY, SUITE 200
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Key Plan

Revision Date

OPN Project No.
17609000

Sheet Issue Date
100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name
ELECTRICAL SCHEDULES

Sheet Number
E600

PRINTED: 6/1/2018 11:48:30 AM

PANEL NAME: A

TYPE: BOLT-ON
MOUNTING: RECESSED
FED FROM: DP-LIBRARY
SCCR: 18,000A
LOCATION: MECH CLOSET 104

SOLID NEUTRAL
GROUND BUS

CONNECTED 42.4 kVA
MAIN: 400A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 39.34 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	LOAD DESCRIPTION	CKT NO.	
	A-1	Receptacles	20 A	1	0.36	0.72					1	20 A	Receptacles	A-2	
	A-3	Receptacles	20 A	1			0.18	0.18			1	20 A	Receptacles	A-4	
	A-5	Receptacles	20 A	1					1.08	0.9	1	20 A	Receptacles	A-6	
	A-7	Receptacles	20 A	1	1.08	0.18					1	20 A	Receptacles	A-8	
	A-9	Receptacles	20 A	1			0.36	0.18			1	20 A	Receptacles	A-10	
	A-11	IU-202, 309	15 A	2					0.43	0.45	1	20 A	LOBBY DOOR, GATE	A-12	
--	A-13	--	--	--	0.43	0.72					1	20 A	Receptacles	A-14	
	A-15	Receptacles	20 A	1			0.18	0.18			1	20 A	Receptacles	A-16	
	A-17	Receptacles	20 A	1					0.18	0.18	1	20 A	Receptacles	A-18	
	A-19	Receptacles	20 A	1	0.36	0.36					1	20 A	Receptacles	A-20	
	A-21	Receptacles	20 A	2			0.18	0.18			2	20 A	Receptacles	A-22	
--	A-23	--	--	--					0	0	--	--	--	A-24	--
	A-25	Receptacles	20 A	1	0.18	0.36					1	20 A	Receptacles	A-26	
	A-27	Receptacles	20 A	1			0.72	0.54			1	20 A	Receptacles	A-28	
	A-29	Receptacles	20 A	1					0.54	0.18	1	20 A	Receptacles	A-30	
	A-31	Receptacles	20 A	1	0.18	0.54					1	20 A	Receptacles	A-32	
	A-33	Receptacles	20 A	1			0.54	0.54			1	20 A	Receptacles	A-34	
	A-35	Receptacles	20 A	1					0.72	0.36	1	20 A	Receptacles	A-36	
	A-37	Receptacles	20 A	1	0.36	0.36					1	20 A	Receptacles	A-38	
	A-39	Receptacles	20 A	1			0.54	0.36			1	20 A	Receptacles	A-40	
	A-41	IU-305, 310	15 A	2					0.43	0.31	2	15 A	IU-301, 302	A-42	
--	A-43	--	--	--	0.43	0.31					--	--	--	A-44	--
	A-45	IU-304, 308	15 A	2			0.52	0.39			2	15 A	BS-300, IU-303	A-46	
--	A-47	--	--	--					0.52	0.39	--	--	--	A-48	--
*P	A-49	WCCU-300, #3 WIRE	90 A	3	5.2	0.6					1	20 A	SHADES	A-50	
--	A-51	--	--	--			5.2	0.72			1	20 A	Receptacles	A-52	
--	A-53	--	--	--					5.2	0.8	1	20 A	DOORS	A-54	
	A-55	Lighting	20 A	1	1.57	0.68					1	20 A	Lighting	A-56	
	A-57	Lighting	20 A	1			0.76	0.9			1	20 A		A-58	
	A-59	Lighting	20 A	1					0.53	0	2	20 A	FUTURE ELEC HEAT	A-60	
	A-61	FUTURE ELEC HEAT	20 A	2	0	0					--	--	--	A-62	--
--	A-63	--	--	--			0	0			2	20 A	FUTURE ELEC HEAT	A-64	
	A-65	Receptacles	20 A	2					0.18	0	--	--	--	A-66	--
--	A-67	--	--	--	0	0.18					2	20 A	Receptacles	A-68	
	A-69	Receptacles	20 A	2			0.18	0			--	--	--	A-70	--
--	A-71	--	--	--					0	0.18	2	20 A	Receptacles	A-72	
	A-73	VRF CONTROLLER	20 A	1	0.2	0					--	--	--	A-74	--
	A-75	SPARE	20 A	1			0	0			1	20 A	SPARE	A-76	
	A-77	SPARE	20 A	1					0	0	1	20 A	SPARE	A-78	
	A-79	SPARE	20 A	1	0	0					1	20 A	SPARE	A-80	
	A-81	SPARE	20 A	1			0	0			1	20 A	SPARE	A-82	
	A-83	SPARE	20 A	1					0	0	1	20 A	SPARE	A-84	
	A-85	SPARE	20 A	1	0	0					1	20 A	SPARE	A-86	
	A-87	SPARE	20 A	1			0	0			1	20 A	SPARE	A-88	
--	A-89	SPACE	--	--					0	0	--	--	SPACE	A-90	--
--	A-91	SPACE	--	--	0	0					--	--	SPACE	A-92	--
--	A-93	SPACE	--	--			0	0			--	--	SPACE	A-94	--
--	A-95	SPACE	--	--					0	0	--	--	SPACE	A-96	--
--	A-97	SPACE	--	--	0	0					--	--	SPACE	A-98	--
--	A-99	SPACE	--	--			0	0			--	--	SPACE	A-100	--
--	A-101	SPACE	--	--					0	0	--	--	SPACE	A-102	--
--	A-103	SPACE	--	--	0	0					--	--	SPACE	A-104	--
--	A-105	SPACE	--	--			0	0			--	--	SPACE	A-106	--
--	A-107	SPACE	--	--					0	0	--	--	SPACE	A-108	--
				Total Load:	15.36 kVA		13.53 kVA		13.56 kVA						
				Total Amps:	128.04		112.73		112.99						

Key*: *P = PADLOCK HASP

PANEL NAME: C

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-LIBRARY
SCCR: 30,000A
LOCATION: LIB. MECH. 1 HR

SOLID NEUTRAL
GROUND BUS

CONNECTED 50 kVA
MAIN: 400A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 50 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	LOAD DESCRIPTION	CKT NO.	
	C-1	IU-100	15 A	2	0.04	2.27					3	30 A	WCCU-100, #10 WIRE	C-2	*P
--	C-3	--	--	--			0.04	2.27			--	--	--	C-4	--
	C-5	Receptacles	20 A	1					0.54	2.27	--	--	--	C-6	--
	C-7	DDC PANELS	15 A	1	0.8	3.73					3	70 A	P-1, #8 WIRE	C-8	*P
*P	C-9	P-2, #8 WIRE	70 A	3			3.73	3.73			--	--	--	C-10	--
--	C-11	--	--	--					3.73	3.73	--	--	--	C-12	--
--	C-13	--	--	--	3.73	0.9					1	15 A	CP-1	C-14	*P
	C-15	Power	20 A	2			2.15	0.17			3	15 A	AHU-1 HEAT WHEEL	C-16	
--	C-17	--	--	--					2.15	0.17	--	--	--	C-18	--
	C-19	AHU-1 SUPPLY, #10 WIRE	35 A	3	2.03	0.17					--	--	--	C-20	--
--	C-21	--	--	--			2.03	2.03			3	35 A	AHU-1 EXHAUST, #10 WIRE	C-22	
--	C-23	--	--	--					2.03	2.03	--	--	--	C-24	--
	C-25	Power	20 A	1	0.5	2.03					--	--	--	C-26	--
	C-27	Lighting	20 A	1			0	0.18			1	20 A	Receptacles	C-28	
	C-29	Power	20 A	1					0.8	0	1	20 A	SPARE	C-30	
	C-31	SPARE	20 A	1	0	0					1	20 A	SPARE	C-32	
	C-33	SPARE	20 A	1			0	0			1	20 A	SPARE	C-34	
	C-35	SPARE	20 A	1					0	0	1	20 A	SPARE	C-36	
	C-37	SPARE	20 A	1	0	0					1	20 A	SPARE	C-38	
	C-39	SPARE	20 A	1			0	0			1	20 A	SPARE	C-40	
	C-41	SPARE	20 A	1					0	0	1	20 A	SPARE	C-42	
	C-43	SPARE	20 A	1	0	0					1	20 A	SPARE	C-44	
	C-45	SPARE	20 A	1			0	0			1	20 A	SPARE	C-46	
	C-47	SPARE	20 A	1					0	0	1	20 A	SPARE	C-48	
--	C-49	SPACE	--	--	0	0					--	--	SPACE	C-50	--
--	C-51	SPACE	--	--			0	0			--	--	SPACE	C-52	--
--	C-53	SPACE	--	--					0	0	--	--	SPACE	C-54	--
--	C-55	SPACE	--	--	0	0					--	--	SPACE	C-56	--
--	C-57	SPACE	--	--			0	0			--	--	SPACE	C-58	--
--	C-59	SPACE	--	--					0	0	--	--	SPACE	C-60	--
--	C-61	SPACE	--	--	0	0					--	--	SPACE	C-62	--
--	C-63	SPACE	--	--			0	0			--	--	SPACE	C-64	--
--	C-65	SPACE	--	--					0	0	--	--	SPACE	C-66	--
--	C-67	SPACE	--	--	0	0					--	--	SPACE	C-68	--
--	C-69	SPACE	--	--			0	0			--	--	SPACE	C-70	--
--	C-71	SPACE	--	--					0	0	--	--	SPACE	C-72	--
				Total Load:	16.21 kVA		16.34 kVA		17.46 kVA						
				Total Amps:	135.06		136.31		145.64						

Key*: *P = PADLOCK HASP

PANEL NAME: B

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DP-LIBRARY
SCCR: 18,000A
LOCATION: IT ROOM 129

SOLID NEUTRAL
GROUND BUS

CONNECTED 131.1 kVA
MAIN: 400A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 121 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	LOAD DESCRIPTION	CKT NO.	
	B-1	Receptacles	20 A	1	0.9	0.9					1	20 A	Receptacles	B-2	
	B-3	Receptacles	20 A	1			0.36	0.18			1	20 A	REFRIGERATOR	B-4	
	B-5	Receptacles	20 A	1					0.18	0.18	1	20 A	Receptacles	B-6	
	B-7	Receptacles	20 A	1	0.36	1.08					1	20 A	Receptacles	B-8	
	B-9	Receptacles	20 A	1			0.9	0.54			1	20 A	Receptacles	B-10	
	B-11	Receptacles	20 A	1					1.08	1.1	1	20 A	Receptacles	B-12	
	B-13	Receptacles	20 A	1	0.18	0.18					1	20 A	Receptacles	B-14	
	B-15	Receptacles	20 A	1			0.18	0.18			1	20 A	Receptacles	B-16	
	B-17	Receptacles	20 A	1					0.18	0.54	1	20 A	Receptacles	B-18	
	B-19	Receptacles	20 A	1	0.36	0.72					1	20 A	Receptacles	B-20	
	B-21	Receptacles	20 A	1			0.18	0.54			1	20 A	Receptacles	B-22	
	B-23	Receptacles	20 A	1					0.36	0.18	1	20 A	Receptacles	B-24	
	B-25	Receptacles	20 A	1	0.36	0.36					1	20 A	Receptacles	B-26	
	B-27	Receptacles	20 A	1			0.36	0.36			1	20 A	Receptacles	B-28	
	B-29	Receptacles	20 A	1					0.36	0.9	1	20 A	Receptacles	B-30	
	B-31	Receptacles	20 A	1	0.36	0.36					1	20 A	Receptacles	B-32	
	B-33	Receptacles	20 A	1			0.9	0.18			1	20 A	Receptacles	B-34	
	B-35	Receptacles	20 A	1					0.54	0.18	1	20 A	Receptacles	B-36	
	B-37	Receptacles	20 A	1	0.36	0.9					1	20 A	Receptacles	B-38	
	B-39	Receptacles	20 A	1			0.36	0.36			1	20 A	Receptacles	B-40	
	B-41	Receptacles	20 A	1					0.36	0.36	1	20 A	Receptacles	B-42	
	B-43	Receptacles	20 A	1	0.72	0.36					1	20 A	Receptacles	B-44	
	B-45	Receptacles	20 A	1			0.72	0.36			1	20 A	Receptacles	B-46	
	B-47	Receptacles	20 A	1					0.54	0.36	1	20 A	Receptacles	B-48	
	B-49	Receptacles	20 A	1	0.74	0.84					1	20 A	Receptacles	B-50	
	B-51	Receptacles	20 A	1			1.38	0.54			1	20 A	Receptacles	B-52	
*G	B-53	EWC	20 A	1					0.18	0.18	1	20 A	Receptacles	B-54	
	B-55	IU-101, 106	15 A	2	0.28	0.72					1	20 A	Receptacles	B-56	
--	B-57	--	--	--			0.28	0.23			2	15 A	IU-105, 107	B-58	
	B-59	IU-107, 109	15 A	2					0.22	0.23	--	--	--	B-60	--
--	B-61	--	--	--	0.22	0.35					2	15 A	BS-100, IU-102, 103	B-62	
	B-63	IU-209, 210	15 A	2			0.52	0.35			--	--	--	B-64	--
--	B-65	--	--	--					0.52	0.91	2	15 A	IU-203, 206	B-66	
	B-67	IU-204, 208	15 A	2	0.73	0.91					--	--	--	B-68	--
--	B-69	--	--	--			0.73	0.26			2	15 A	IU-205, 307	B-70	
	B-71	IU-201, 207, 306	15 A	2					0.86	0.26	--	--	--	B-72	--
--	B-73	--	--	--	0.86	0.18					2	15 A	BS-200, IU-108	B-74	
	B-75	RCP-1	15 A	2			1.13	0.18			--	--	--	B-76	--
--	B-77	--	--	--					1.13	0.6	1	20 A	SHADES	B-78	
	B-79	SHADES	20 A	1	0.6	0.9					1	20 A	SHADES	B-80	
	B-81	Receptacles	20 A	1			0.36	1.2			1	20 A	SHADES	B-82	
	B-83	Receptacles	20 A	1					0.18	0.68	1	20 A	SCREEN	B-84	
	B-85	Receptacles	20 A	1	0.18	0.18					1	20 A	Receptacles	B-86	
	B-87	Lighting	20 A	1			0.96	0.9			1	20 A	Receptacles	B-88	
	B-89		20 A	1					0.65	0.8	1	20 A	DOORS	B-90	
	B-91	Lighting	20 A	1	0.4	0.81					1	20 A	Lighting	B-92	
	B-93	Lighting	20 A	1			1.06	1.47			1	20 A	Lighting	B-94	
	B-95	Lighting	20 A	1					0.7	1.51	1	20 A	Lighting	B-96	
*G	B-97	DISPOSER	15 A	1	1.6	1.21					1	20 A	Lighting	B-98	
	B-99	FUTURE ELEC HEAT	20 A	2			0	0			2	20 A	FUTURE ELEC HEAT	B-100	
--	B-101	--	--	--					0	0	--	--	--	B-102	--
	B-103	PP-1	20 A	1	0.4	0.53					3	20 A	PARTITION, 4#10 & 1#10 GND	B-104	
	B-105	PP-1	20 A	1			0.4	0.53			--	--	--	B-106	--
	B-107	PP-1	20 A	1					0.4	0.53	--	--	--	B-108	--
	B-109	PP-1	20 A	1	0.4	0					2	20 A	Power	B-110	
	B-111	PROJECTOR	20 A	1			0.6	0			--	--	--	B-112	--
	B-113	Power	20 A	1					12	12	1	20 A	Power	B-114	
	B-115	Power	20 A	1	12	12					1	20 A	Power	B-116	
	B-117	Power	20 A	1			12	12			1	20 A	Power	B-118	
	B-119													B-120	
	B-121													B-122	
	B-123	SPARE	20 A	1			0	0			1	20 A	SPARE	B-124	
	B-125	SPARE	20 A	1					0	0	1	20 A	SPARE	B-126	
	B-127	SPARE	20 A	1	0	0					1	20 A	SPARE	B-128	
--	B-129	SPACE	--	--			0	0			--	--	SPACE	B-130	--
--	B-131	SPACE	--	--					0	0	--	--	SPACE	B-132	--
--	B-133	SPACE	--	--	0	0					--	--	SPACE	B-134	--
--	B-135	SPACE	--	--			0	0			--	--	SPACE	B-136	--
--	B-137	SPACE	--	--					0	0	--	--	SPACE	B-138	--
--	B-139	SPACE	--	--	0	0					--	--	SPACE	B-140	--
--	B-141	SPACE	--	--			0	0			--	--	SPACE	B-142	--
--	B-143	SPACE	--	--					0	0	--	--	SPACE	B-144	--
--	B-145	SPACE	--	--	0	0					--	--	SPACE	B-146	--
--	B-147	SPACE	--	--			0	0			--	--	SPACE	B-148	--
--	B-149	SPACE	--	--					0	0	--	--	SPACE	B-150	--
--	B-151	SPACE	--	--	0	0					--	--	SPACE	B-152	--
--	B-153	SPACE	--	--			0	0			--	--	SPACE	B-154	--
--	B-155	SPACE	--	--					0	0	--	--	SPACE	B-156	--
--	B-157	SPACE	--	--	0	0					--	--	SPACE	B-158	--
--	B-159	SPACE	--	--			0	0			--	--	SPACE	B-160	--
--	B-161	SPACE	--	--					0	0	--	--	SPACE	B-162	--
				Total Load:	45.48 kVA		43.72 kVA		41.93 kVA						
				Total Amps:	381.29		366.66		349.44						

Key*: *G = GFCI BREAKER

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Key Plan

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Sheet Issue Date
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Sheet Name
ELECTRICAL PANEL SCHEDULES

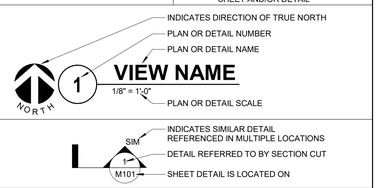
Sheet Number
E700

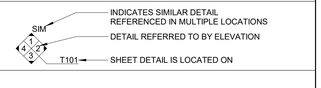
PRINTED: 6/1/2018 10:53:31 AM

VIEW KEY

NAME — LEVEL NAME / 10' - 0" — 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)

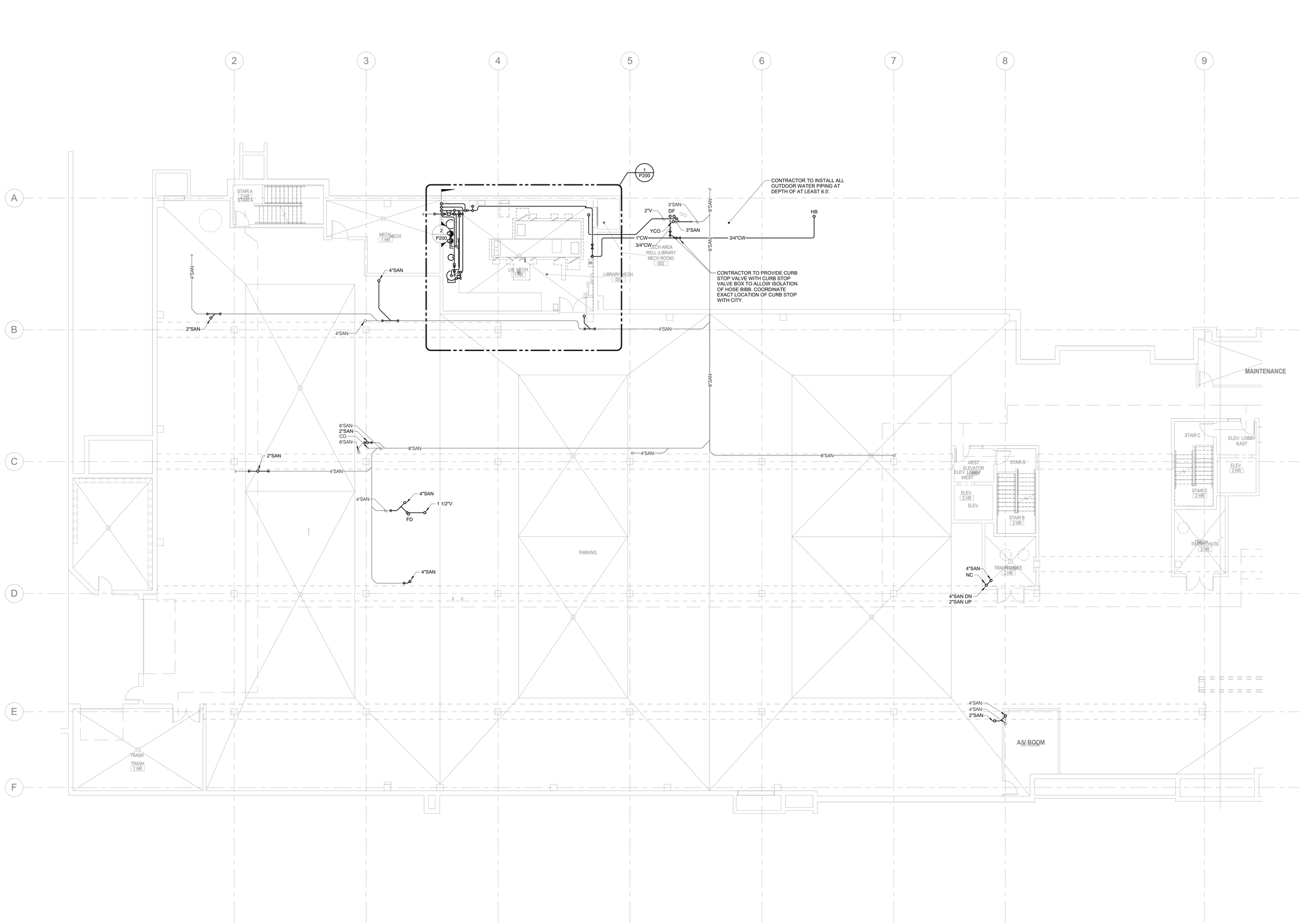
FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	— — —

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1 LEVEL 0 FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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Sheet Issue Date
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Sheet Name
LEVEL 0 FLOOR PLAN - PLUMBING

Sheet Number
P100

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GENERAL NOTES :

1. ALL PIPING SHOWN ON THIS FLOOR PLAN IS ROUTED IN THE RAISED FLOOR PLENUM. SUPPORT PIPING FROM FLOOR SLAB AND ROUTE WITHIN CLEAR SPACE OF RAISED FLOOR PLENUM. COORDINATE CLEARANCES WITH RAISED FLOOR PLENUM MANUFACTURER.
2. PROVIDE CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER WALL CLEANOUT.

FLOOR DRAIN INSTALLED IN CONCRETE FLOOR BELOW RAISED FLOOR PLENUM. DRAIN SERVES ANY CATASTROPIC LEAKS WITHIN THE RAISED FLOOR PLENUM. LOCATE OUTSIDE BATHROOM AREA SO DRAIN IS ACCESSIBLE.

LEVEL 1 UNDER RAISED FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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Sheet Issue Date
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Sheet Name
LEVEL 1 UNDER RAISED FLOOR PLAN – PLUMBING

Sheet Number
P101

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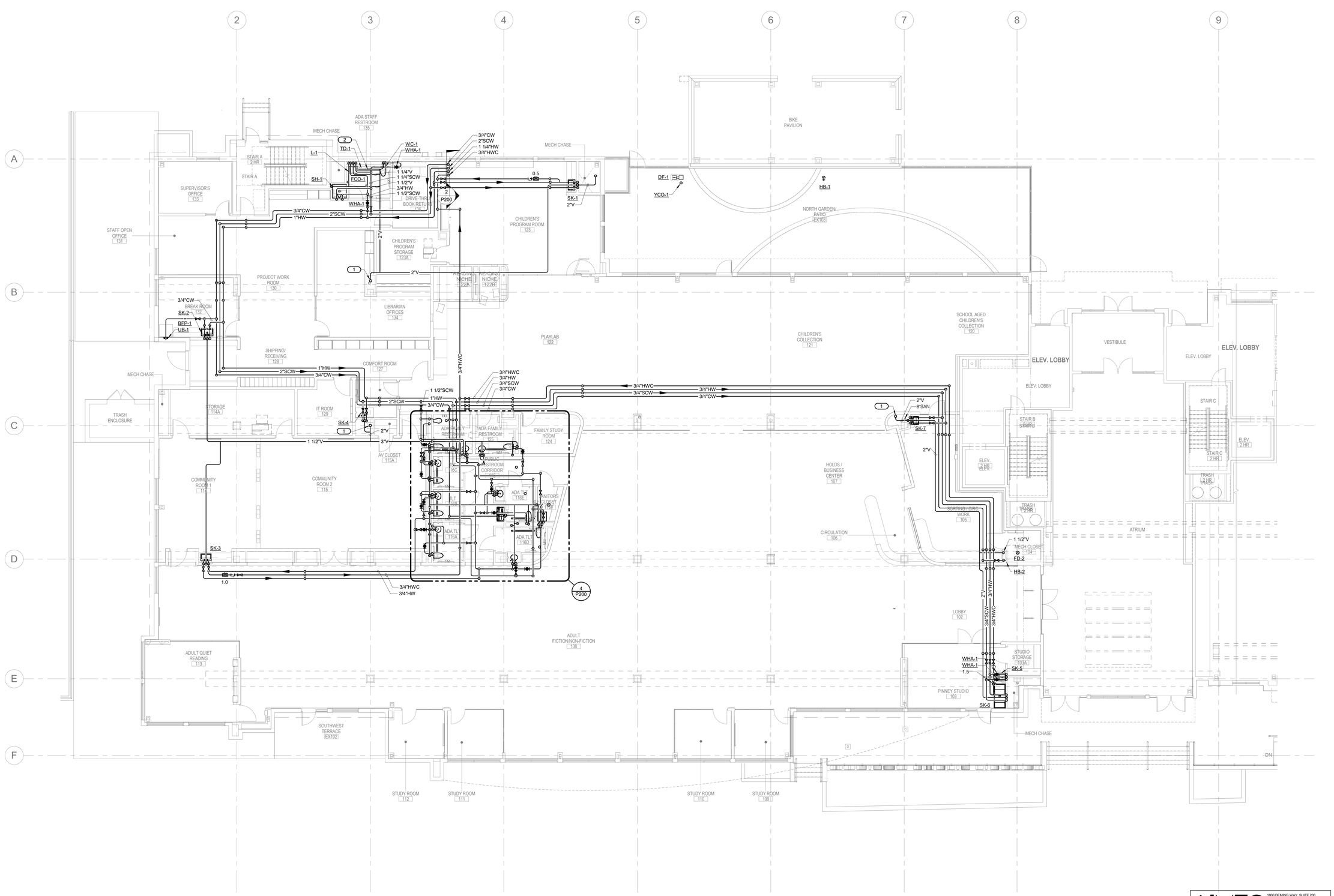
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KEYNOTES: (#)

1. CONNECT INTO EXISTING 4" VENT STACK. P.C. TO MAKE NEW CONNECTION INTO EXISTING VENT STACK.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.



LEVEL 1 FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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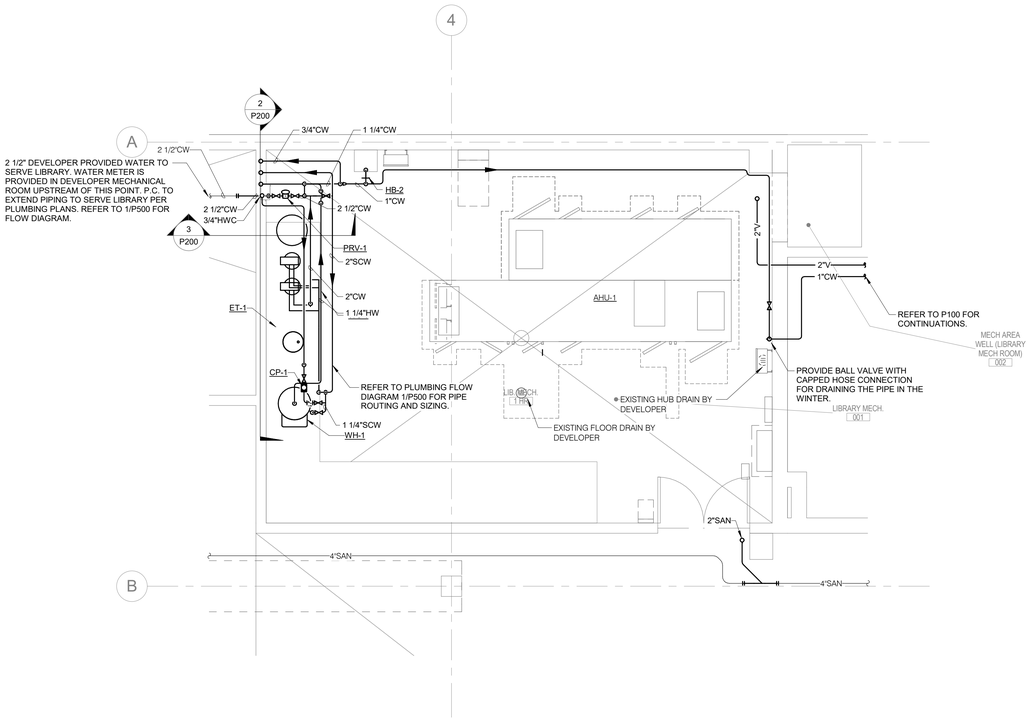
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Sheet Name
LEVEL 1 FLOOR PLAN - PLUMBING

Sheet Number
P102

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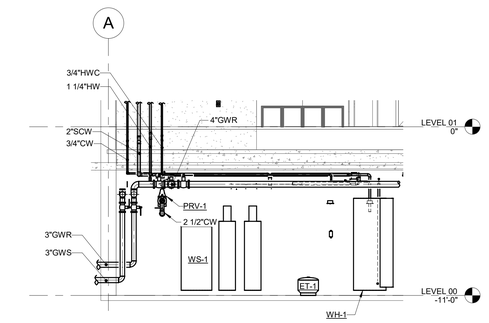


1 ENLARGED PLAN - LIB. MECH. - PLUMBING

1/4" = 1'-0"

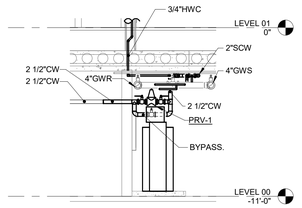
KEYNOTES: (#)

1. P.C. TO PROVIDE STRUCTURAL STAND UNDER ACCESS FLOOR TO SUPPORT FLOOR MOUNTED WATER CLOSET. STRUCTURAL STAND SHALL BE BOLTED TO STRUCTURAL SLAB. BOLT WATER CLOSET TO STRUCTURAL STAND. COORDINATE INSTALLATION WITH RAISED FLOOR MANUFACTURER.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.



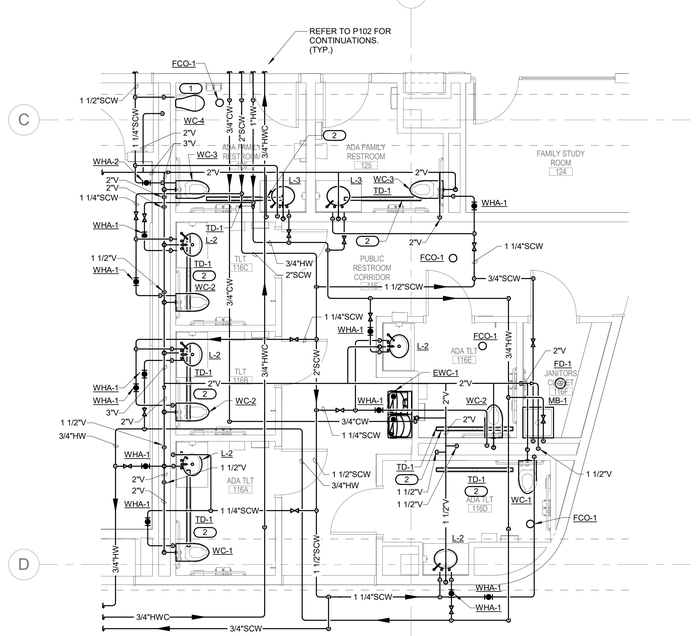
2 SECTION FOR MECH. ROOM PLUMBING

1/4" = 1'-0"



3 SECTION FOR MECH. ROOM PLUMBING

1/4" = 1'-0"



4 ENLARGED PLAN - BATHROOM GROUPS - PLUMBING

1/4" = 1'-0"

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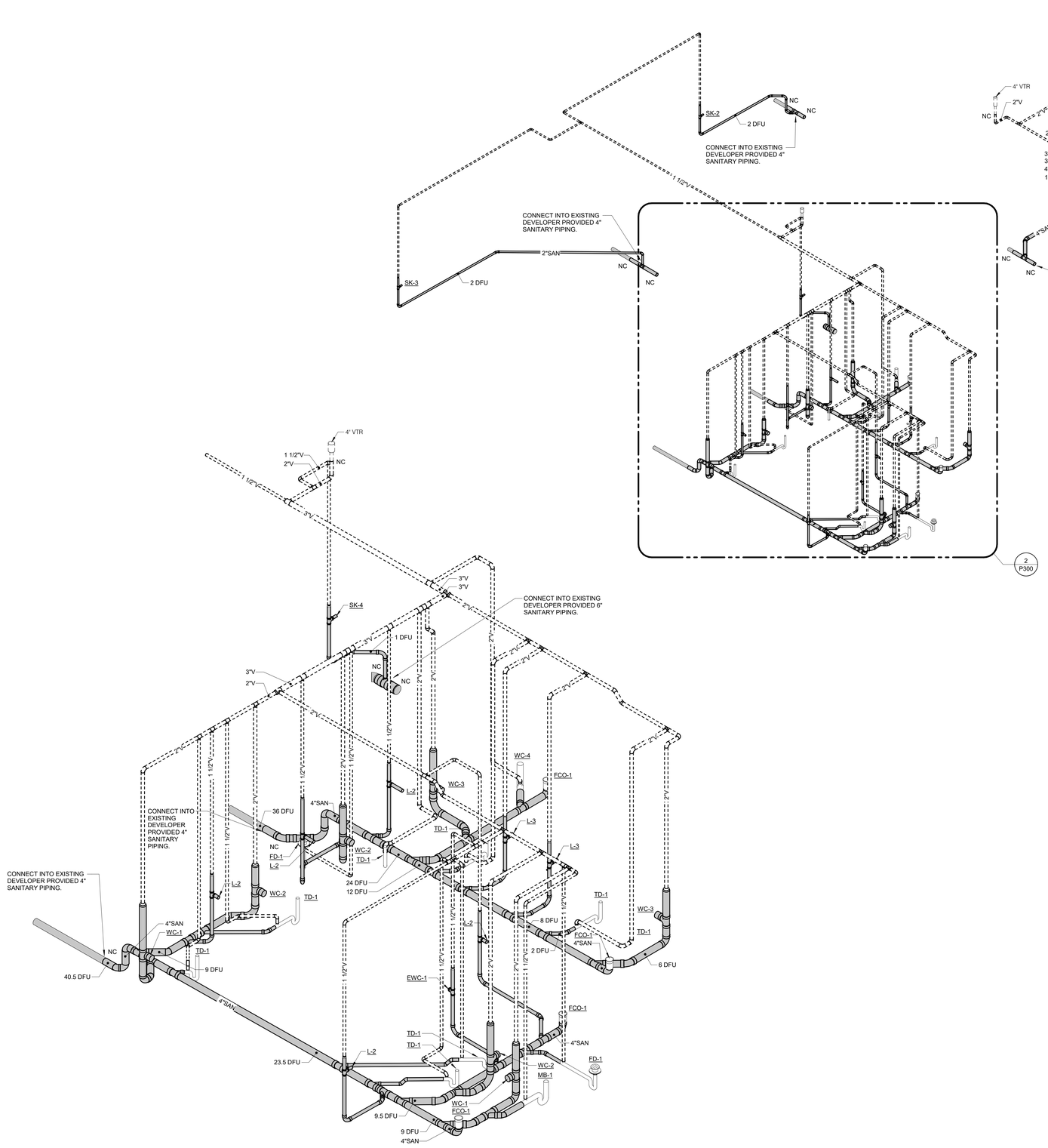
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Sheet Issue Date
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Sheet Name
ENLARGED PLANS AND SECTIONS - PLUMBING

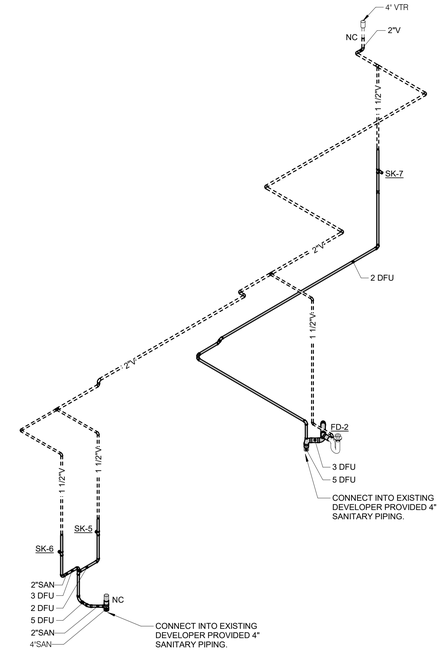
Sheet Number
P200

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2 ENIARGED PLAN FOR SAN-VENT RISER DIAGRAMS - PLUMBING

NO SCALE



1 SAN-VENT RISER DIAGRAMS - PLUMBING

NO SCALE

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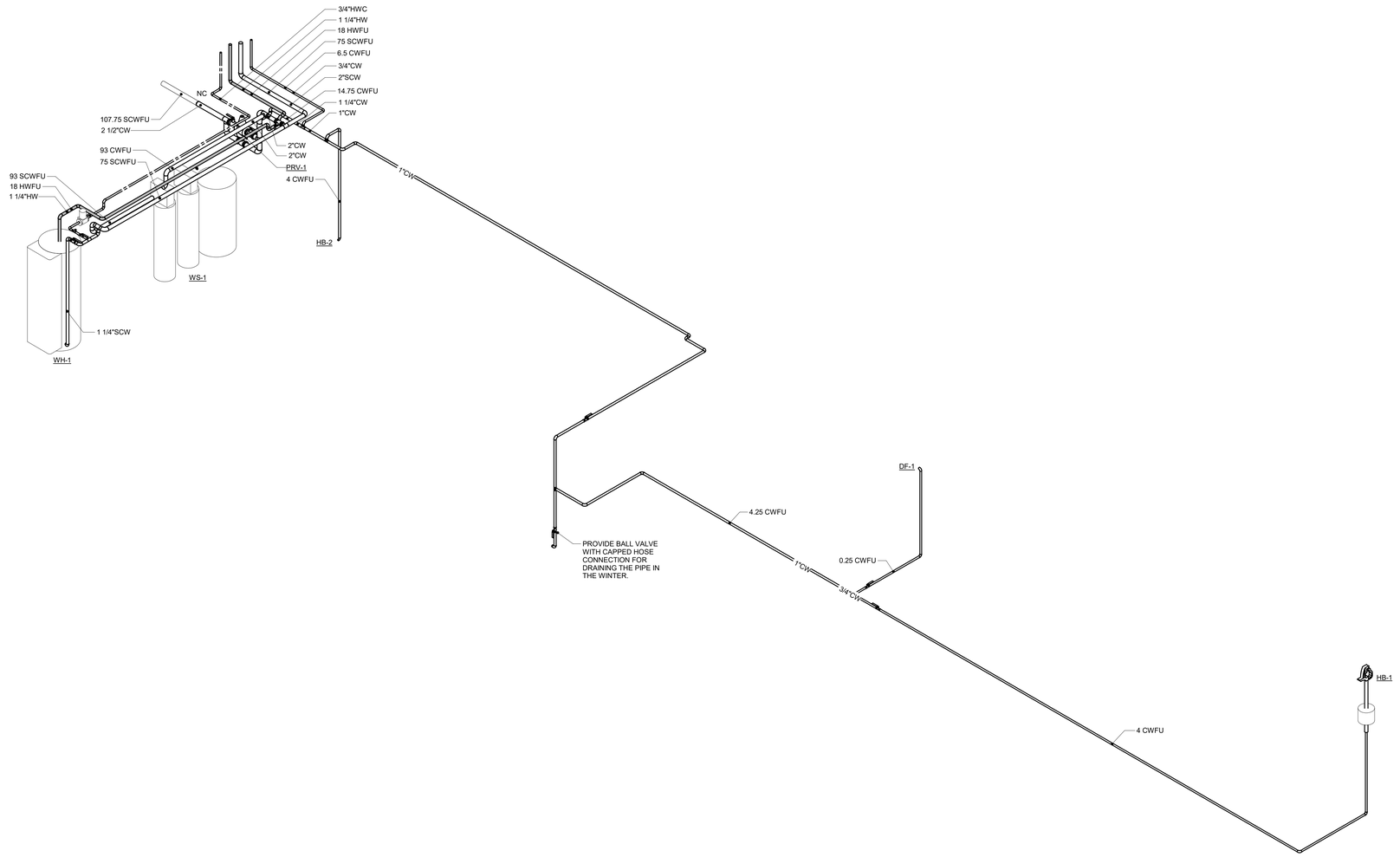
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RISER DIAGRAMS - PLUMBING

Sheet Number
P300

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1 DOMESTIC RISER DIAGRAMS - LEVEL 0 - PLUMBING

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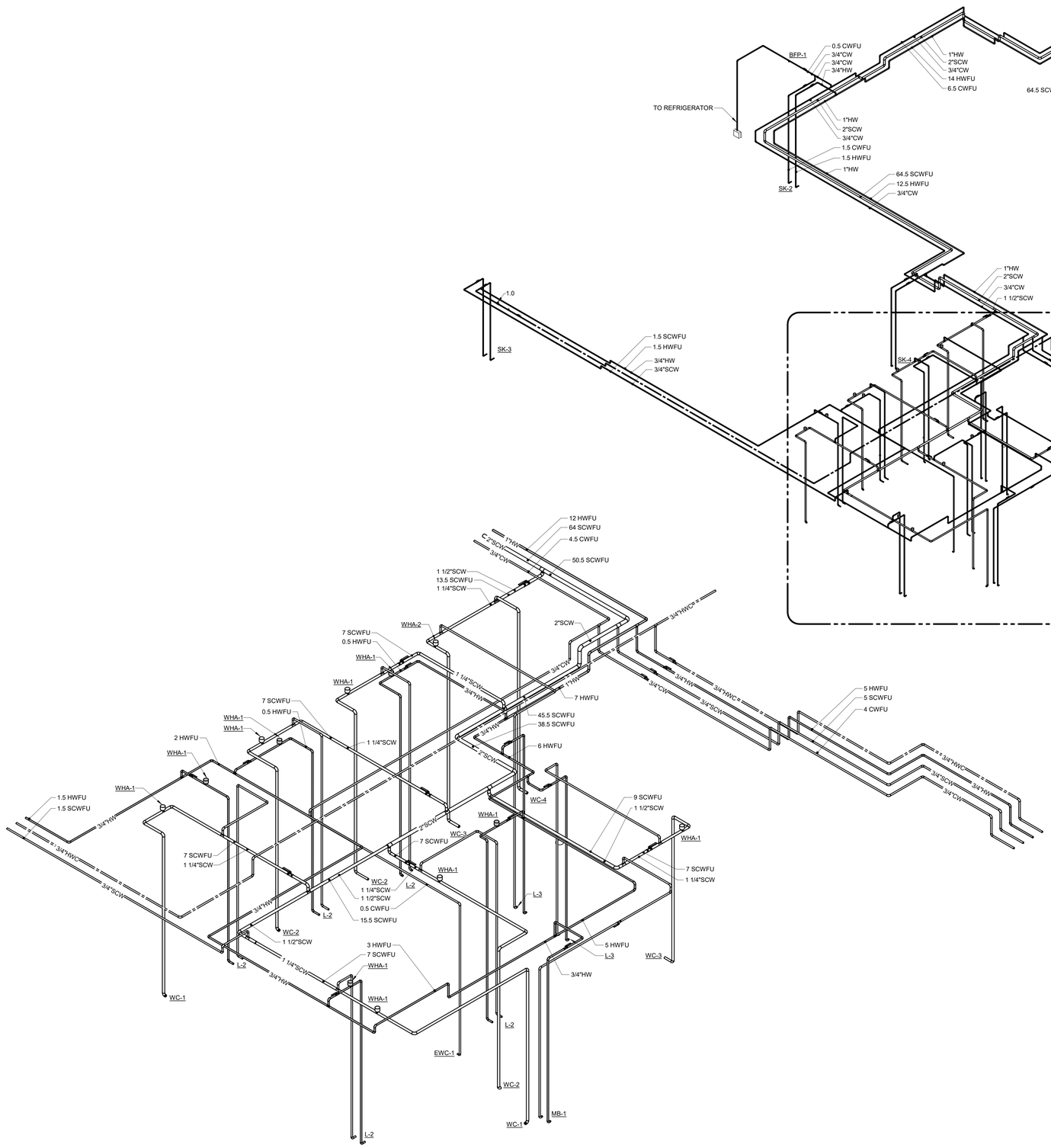
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RISER DIAGRAMS - PLUMBING

Sheet Number
P301

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2 ENLARGED PLAN FOR DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING

NO SCALE

1 DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING

NO SCALE

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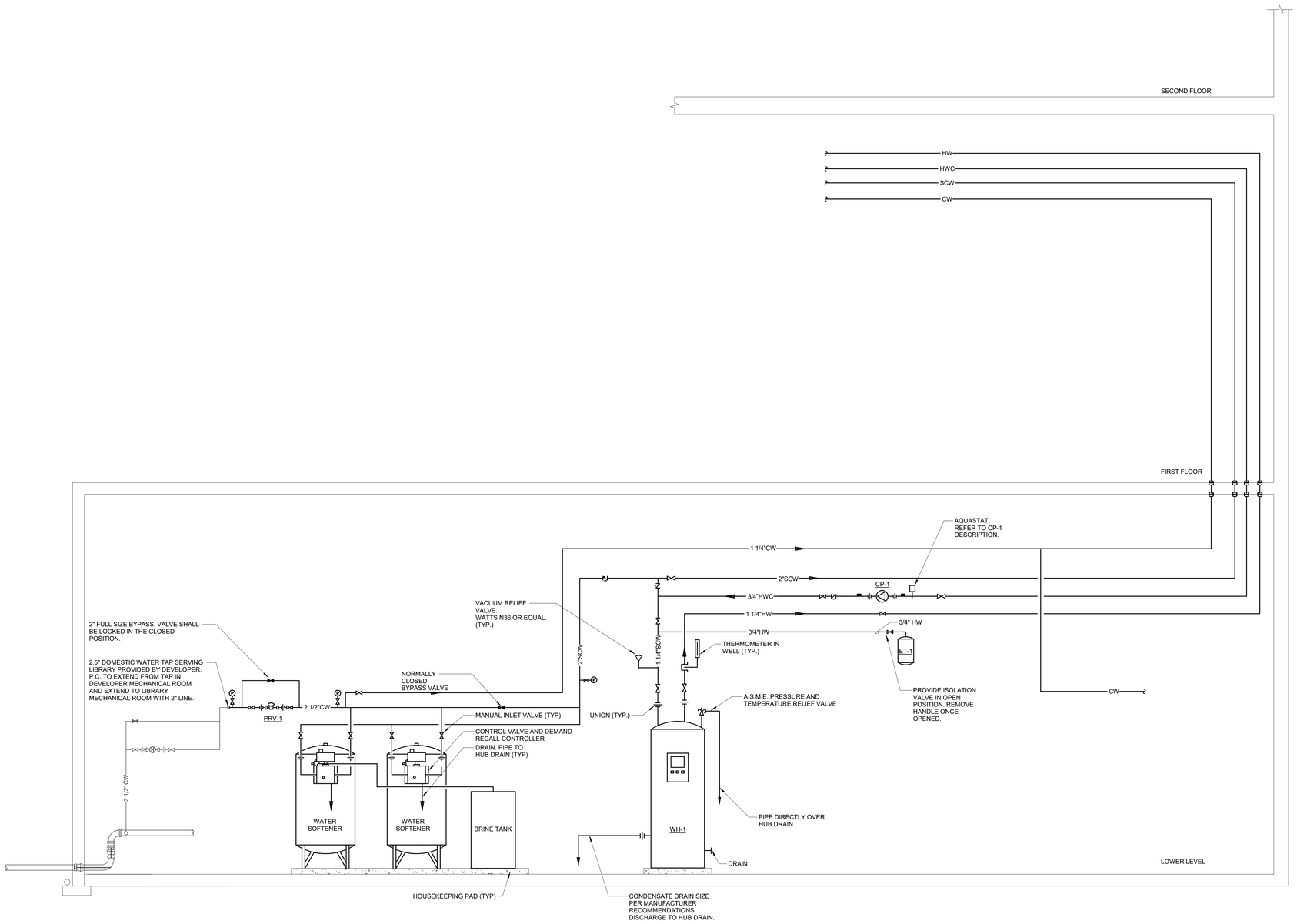
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1 PLUMBING FLOW DIAGRAM

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Sheet Name
PLUMBING DIAGRAMS

Sheet Number
P500

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PLUMBING FIXTURE SCHEDULE

TAG NAME	DESCRIPTION	MANF. & MODEL
BFP-1	BACK FLOW PREVENTER - DUAL CHECK, ATMOSPHERIC VENT, BRASS BODY,STAINLESS STEEL INTERNAL PARTS, INTEGRAL STRAINER, TIGHT SEATIN, RUBBER CHECK VALVE ASSEMBLIES, 3/4" SIZE, RATED FOR 175 PSI AT 33°F TO 250°F, APPROVED BY ASSE 1012.	WATTS (SERIES 9D)
CP-1	CIRCULATING PUMP - VARIABLE SPEED, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL AND THERMAL OVERLOAD PROTECTION, ONE SET OF DRY CONTACTS FOR STATUS OUTPUT TO BMS, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, MANUFACTURER PROVIDED PUMP BODY INSULATION KIT, UL LISTED. 3 GPM @ 25 FEET OF HEAD. MOTOR SHALL BE 1/2 HP. AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS. ELECTRICAL REQUIREMENTS - 115V, 1 PHASE (HARD-WIRE)	PUMP - B&G (ECOCIRC XL SERIES), GRUNDFOS (MAGNA SERIES), WILO (STRATOS Z SERIES) AQUASTAT - HONEYWELL, WHITE-RODGERS, JOHNSON CONTROLS, SAME AS PUMP MANUFACTURER
DF-1	DRINKING FOUNTAIN - OUTDOOR, PEDESTAL, NON FILTERED, NON-REFRIGERATED FREEZE RESISTANT. MARINE-GRADE 316 STAINLESS STEEL CONSTRUCTION, HEAVY DUTY VANDAL RESISTANT, SEALED FREEZE RESISTANT, VANDAL RESISTANT BUBBLER, MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. LEED FREE, ADA COMPLIANT, CONFORMS TO LATEST ANSI 61 & 372 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.	ELKAY (LK4410FRK)
ET-1	EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874. MINIMUM TANK VOLUME TO BE 4.4 GALLONS MINIMUM ACCEPTANCE VOLUME TO BE 3.2 GALLONS TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 125 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 75 PSIG.	AMTROL (THERM-X-TROL), B&G (PT), ELBI (DT), FLEXTRON (FLEXTROL), TACO (PAX SERIES), WATTS (DETA), WESSELS (TX)
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH. STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, GLASS FILLER, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - 115V-1 PHASE, CORD AND PLUG, 1/5 HP MOTOR	ELKAY (LZST)
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER.	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. STABILIZER ASSEMBLY WHERE INSTALLED IN RAISED FLOOR SYSTEM. P.C. TO COORDINATION MOUNTING OF FLOOR DRAIN WITH RAISED FLOOR SYSTEM MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS BELOW RAISED FLOOR TO SECURE STABILIZER ASSEMBLY AS REQUIRED. TRAP SEAL - 2", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000) TRAP SEAL - SMITH (QUAD CLOSE)
FD-2	FLOOR DRAIN - CAST IRON BODY, HEAVY DUTY CAST/DUCTILE IRON TOP, 12" ROUND, 4" BOTTOM OUTLET, MEDIUM SUMP, FREE STANDING SEDIMENT BUCKET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. STABILIZER ASSEMBLY WHERE INSTALLED IN RAISED FLOOR SYSTEM. P.C. TO COORDINATION MOUNTING OF FLOOR DRAIN WITH RAISED FLOOR SYSTEM MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS BELOW RAISED FLOOR TO SECURE STABILIZER ASSEMBLY AS REQUIRED. TRAP SEAL - 4", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN ZURN (Z-541), SMITH (2142), WADE (1210), WATTS (FD-340), MIFAB (F1340), SUN (FD1300) TRAP SEAL - SMITH (QUAD CLOSE)
HB-1	HOSE BIBB - FREEZELESS YARD HYDRANT, INTEGRAL VACUUM BREAKER, PULL DOWN DIVERTER SPOUT, AUTOMATIC DRAINING WITH SUB GRADE DRAINDOWN RESERVOIR, 3/4" MALE HOSE THREAD CONNECTION, 1"I.P.S. INLET, ONE PIECE PLUNGER, LOCKABLE HANDLE. BURY AT A DEPTH OF 6.5' TO ASSURE PLUNGER AND RESERVOIR ARE BELOW FROST LINE.	WOODFORD (S3), FREEZE FLOW (EXECUTIVE)
HB-2	HOSE BIBB - FOR INDOOR USE, 3/4" INLET, BRASS CONSTRUCTION, STANDARD FINISH, 3/4" MALE HOSE THREAD, QUARTER TURN VALVE HANDLE SCREW ON ASSE 1011 LISTED AND APPROVED VACCUM BREAKER. MOUNT AT 24" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON DRAWINGS.	HOSE BIBB - AMERICAN VALVE (M71QT)
L-1	LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER. ELECTRICAL REQUIREMENTS - 120 VAC INPUT MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 20 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	LAVATORY - AMERICAN STANDARD (0356.421), KOHLER (K-2007), SLOAN (SS-3103), TOTO (LT307), ZURN (Z5361) LAVATORY TRIM - T&S BRASS (5EF-2D-DS) INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME)
L-2	LAVATORY - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER. ELECTRICAL REQUIREMENTS - 120 VAC INPUT MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.	LAVATORY - KOHLER (K-2611) LAVATORY TRIM - T&S BRASS (5EF-2D-DS)
L-3	LAVATORY - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. LAVATORY TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.35 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.	LAVATORY - KOHLER (K-2611) LAVATORY TRIM - CHICAGO FAUCET (2200-E2805ABCP) MIXING VALVE - WATTS (LFUSG-B), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), LEONARD (170-BP-LF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (7-210), WILKINS (ZW3870XLT)

PLUMBING FIXTURE SCHEDULE

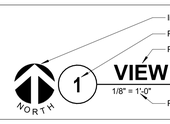
TAG NAME	DESCRIPTION	MANF. & MODEL
MB-1	MOP BASIN - MOLDED STONE, WHITE WITH BLACK ACCENTS, 24"x24"x10". STAINLESS STEEL DRAIN WITH COMBINATION DOME STRAINER AND LINT BASKET, 3" OUTLET, VINYL BUMPER GUARD ON EXPOSED SIDES. TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH ASSE 1053 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP	MOP BASIN - FIAT (MSB), WILLIAMS (MTB), SWAN (MS), ZURN (Z-1996), MUSTEE (63M) TRIM - DELTA (28C2383), AMERICAN STANDARD (8344.012), CHICAGO FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN (Z841M1-XL) VACUUM BREAKER - WATTS (8A), OR APPROVED EQUAL
PRV-1	PRESSURE REDUCING VALVE - SELF-CONTAINED, LOW LEAD BRONZE BODY AND BRONZE BELL HOUSING, ACCESS COVER FOR PLUNGER AND A BOLT TO ADJUST THE DOWNSTREAM PRESSURE. BRONZE BELL HOUSING AND ACCESS CAP SHALL BE THREADED TO THE BODY AND SHALL NOT REQUIRE THE USE OF FERROUS SCREWS. THE ASSEMBLY SHALL BE OF BALANCED PISTON DESIGN ADN SHALL REDUCE PRESSURE IN BOTH FLOW AND NO-FLOW CONDITIONS. THE ASSEMBLY SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT HAVING TO REMOVE THE BODY FROM THE LINE. MAX INLET PRESSURE OF 300 PSI AND MAXIMUM WORKING WATER TEMPERATURE OF 140°F. MAXIMUM LEAD CONTENT OF 0.25% WEIGHTED AVERAGE LEAD CONTENT. ADJUSTABLE SPRING SETTING BETWEEN 10 PSI TO 125 PSI. CERTIFIED TO NSF/ANSI 372. ASSE LISTED TO 1003. 1.5" SIZE WITH FLOW RATE OF 70 GPM AND MAXIMUM ALLOWABLE FALLOFF OF 11 PSI. SET UNIT TO 79 PSI OUTLET PRESSURE.	ZURN WILKINS 500XL
SH-1	SHOWER BASE - ACCESSIBLE, ONE PIECE, PRECAST TERRAZZO, 36"x36" (NOMINAL), 2" DRAIN, STAINLESS STEEL REMOVABLE STRAINER. SHOWER VALVE - ACCESSIBLE, SINGLE HANDLE THERMOSTATIC/PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK-STOPS, ADJUSTABLE SAFETY LIMIT STOP, ASSE 1016-T/P LISTED. ACCESSORIES - ADJUSTABLE SPRAY HAND HELD SHOWER WITH 1.5 GPM FLOW AND 72" CHROME-PLATED METAL HOSE AND QUICK DISCONNECT, CHROME-PLATED BRASS SHOWERHEAD WITH SWIVEL BALL JOINT ADJUSTABLE SPRAY, CHROME-PLATED BRASS ARM AND FLANGE, CHROME-PLATED BRASS SWIVEL CONNECTOR, 36" CHROME-PLATED MOUNTING RAIL, CHROME-PLATED BRASS SUPPLY ELBOW, CHROME PLATED IN-LINE VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES , CHROME-PLATED BRASS DIVERTER.. INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM OF SHOWERHEAD AT 72" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.	SHOWER - FIAT, CREATIVE INDUSTRIES, WILLIAMS, FLORESTONE, ACORN SHOWER VALVE - POWERS (E710), CHICAGO FAUCET (2500-VOCCP), LAWLER (7800)
SK-1	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - KOHLER (K-597), DELTA (9178-DST), AMERICAN STANDARD (4285.300), ELKAY (LK6000), MOEN (7594C), SYMMONS (S-2302-PD),
SK-2	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. GARBAGE DISPOSER - CONTINUOUS FEED, SINGLE DIRECTION, CORROSION PROTECTION SHIELD, SERVICE WRENCH, STAINLESS STEEL GRINDING ELEMENTS, MANUALLY RESET OVERLOAD PROTECTION, FULL 4 YEAR WARRANTY. ELECTRICAL REQUIREMENTS - 115V-1 PHASE, CORD AND PLUG HARD WIRED, 3/4 HP MOTOR, 15 AMPS. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - KOHLER (K-597), DELTA (9178-DST), AMERICAN STANDARD (4285.300), ELKAY (LK6000), MOEN (7594C), SYMMONS (S-2302-PD), IN-SINK-ERATOR (EVOLUTION SERIES), SINKMASTER (950), WASTE KING (3300)
SK-3	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 8" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - CHICAGO FAUCET (786), AMERICAN STANDARD (7230.000), MOEN (8225), SPEAKMAN (SC-3000 SERIES), ZURN (Z831-XL)
SK-4	SINK - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP. MOUNT SINK WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	SINK - KOHLER (K-2611) SINK TRIM - CHICAGO FAUCET (2200-E2805ABCP) MIXING VALVE - WATTS (LFUSG-B), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), LEONARD (170-BP-LF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (7-210), WILKINS (ZW3870XLT)
SK-5	SINK - WALL MOUNTED, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL DIMENSIONS 16" WIDE BY 11 1/2" FRONT TO BACK BY 5 1/2" DEEP, 2 1/2" HIGH BACKSPLASH, 5/32" RAISED RIMS. 1 3/4" RADIUS VERTICAL AND HORIZONTAL COVED CORNERS, SOUND DAMPENING PAD. EXPOSED SURFACES ARE FINE BLENDED TO A UNIFORM SATIN LUSTROUS FINISH. COMPLIANT TO LATEST ADA STANDARD AND ANSI A117.1. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP. MOUNT SINK WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATE

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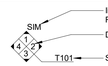
VIEW KEY

NAME — LEVEL NAME; 10' - 0" — 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

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	— — — — — — — — — — — —
2 HOUR FIRE BARRIER	— · — · — · — · — · — · —

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS 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:	04/16/2017
RESIDUAL HYDRANT #:	2060
HYDRANT ELEVATION:	864'
LOCATION:	PINNEY STREET
STATIC PRESSURE:	92 PSI
RESIDUAL PRESSURE:	84 PSI
FLOW HYDRANT #:	2061
HYDRANT ELEVATION:	865'
LOCATION:	PINNEY STREET
TOTAL FLOW:	1445 GPM
SIZE OF MAIN:	8"

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBIN, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. 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.
2. 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.
3. 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.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
5. 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.
6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. 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.
18. THERE ARE SIGNIFICANT DIFFERENCES BETWEEN THE VRF SYSTEM MANUFACTURERS. THE MECHANICAL CONTRACTOR SHALL CONFIRM WITH THE MANUFACTURER'S REPRESENTATIVES INCLUDE THE PRECISE QUANTITY AND SIZES OF ALL EQUIPMENT, COMPONENTS, REFRIGERANT PIPING, CONDENSATE PIPING, ELECTRICAL CONNECTIONS, CONTROLS, ETC. NECESSARY TO MAKE THE SYSTEM FULLY OPERATIONAL AND MAINTAIN ZONING CONTROL AS INDICATED ON DOCUMENTS PRIOR TO BID. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH IN HIS BID, INCLUDING ANY REQUIREMENTS OVER AND ABOVE THAT INCLUDE IN THE CONTRACT DOCUMENTS.

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. FIRE PROTECTION CONTRACTOR TO REMOVE ANY EXISTING FIRE PROTECTION PIPING THAT HAS BEEN INSTALLED AS PART OF SHELL SPACE.

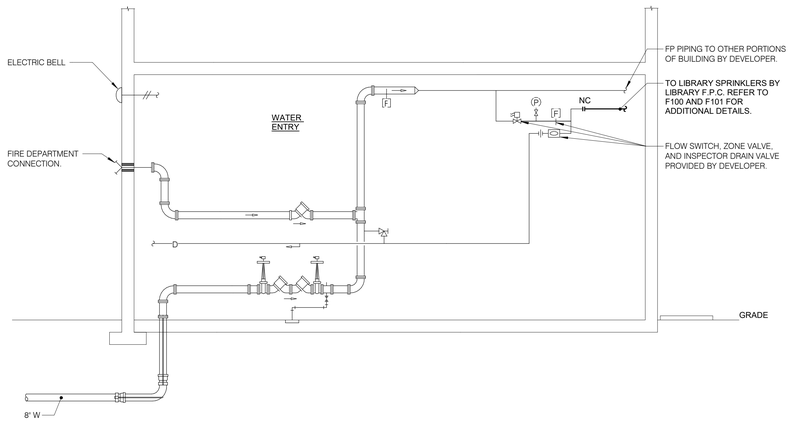
FIRE PROTECTION SHEET INDEX

F000	FIRE PROTECTION COVER SHEET
F100	LEVEL 0 FLOOR PLAN - FIRE PROTECTION
F101	LEVEL 1 FLOOR PLAN - FIRE PROTECTION

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 IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.

		SPRINKLER						
AREA TYPE (NOTE 1 & 6)	AREA HAZARD	SYMBOL (NOTE 4 & 5)	TYPE	RESPONSE	FINISH	TEMPERATURE °F	MANUFACTURER & MODEL	REMARKS
MECHANICAL ROOMS	SEE PLANS	SPR-1	UPRIGHT	QUICK	ROUGH BRASS	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	NOTES 2,3
AREAS WITH FINISHED CEILINGS UNLESS NOTED OTHERWISE	SEE PLANS	SPR-2	CONCEALED	QUICK	WHITE	155	VIKING VK, RELIABLE G4A, TYCO TY-RFII, VICTAULIC V3802	NOTES 3
WOOD CEILINGS	SEE PLANS	SPR-3	CONCEALED	QUICK	BLACK	155	VIKING VK, RELIABLE G4A, TYCO TY-RFII, VICTAULIC V3802	NOTES 3



1 **FIRE PROTECTION RISER DIAGRAM**
NO SCALE

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Key Plan

Revision Date

OPN Project No.
17609000

Sheet Issue Date
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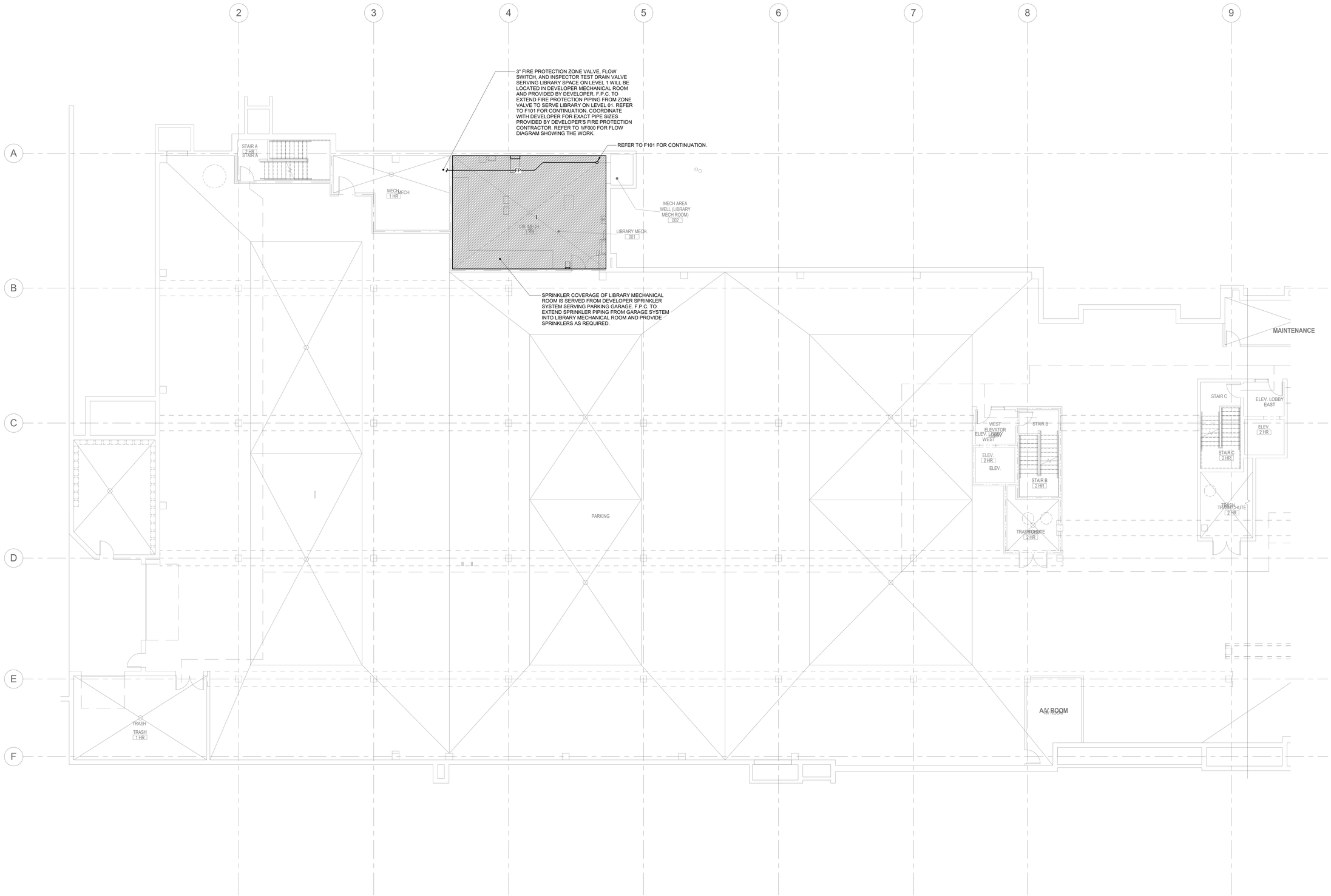
Sheet Name
FIRE PROTECTION COVER SHEET

Sheet Number
F000

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GENERAL NOTES :

1. FIRE PROTECTION SCOPE OF WORK ON THIS LEVEL INCLUDES THE SPRINKLER PIPING SERVING THE LIBRARY MECHANICAL ROOM AND FIRE PROTECTION MAIN PIPING SERVING LIBRARY SPACE ON LEVEL 01 AS NOTED ON THESE DRAWINGS. ALL OTHER SPRINKLER PIPING IS ON THIS FLOOR IS PROVIDED BY DEVELOPER'S FIRE PROTECTION CONTRACTOR AND IS NOT PART OF THE LIBRARY PROJECT'S SCOPE OF WORK.



1 **LEVEL 0 FLOOR PLAN - FIRE PROTECTION**
1/8" = 1'-0"

NORTH

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Key Plan

Revision Date

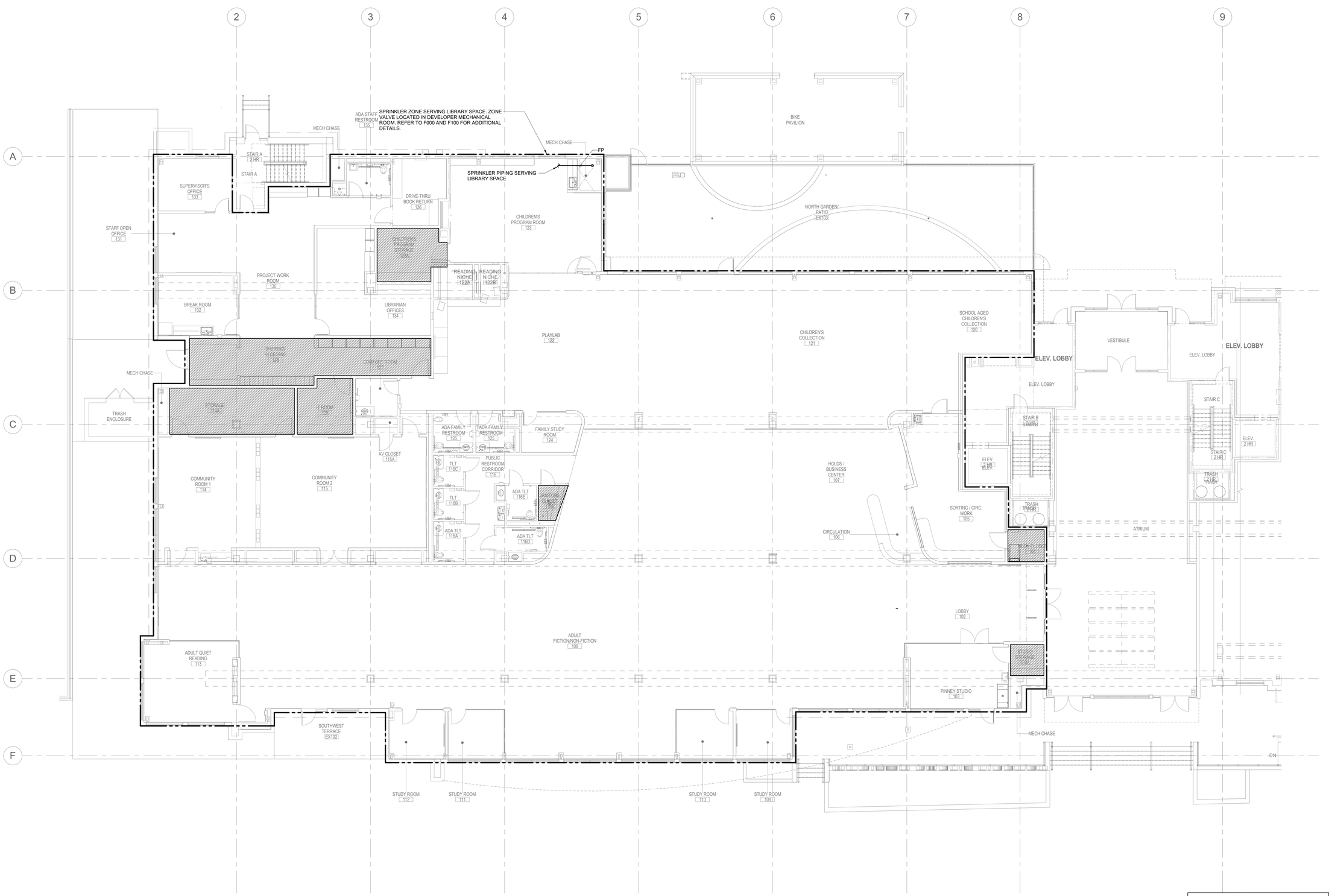
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Sheet Name
LEVEL 0 FLOOR PLAN - FIRE PROTECTION

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NORTH 1

LEVEL 1 FLOOR PLAN - FIRE PROTECTION

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Revision Date

OPN Project No.
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Sheet Issue Date
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Sheet Name
LEVEL 1 FLOOR PLAN - FIRE PROTECTION

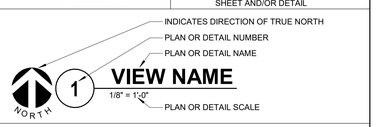
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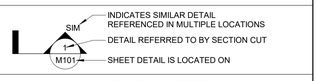
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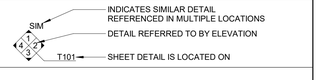
VIEW KEY

NAME — LEVEL NAME
10' - 0" — 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)

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT TAG:	DESCRIPTION:	NOTE:
CR	AC-CR-W	ACCESS CONTROL CREDENTIAL READER	2.
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	2.
CM1	AV-CM1-W	AUDIO/VIDEO CAMERA (POLYCOM) - TYPE 1	.
MP2	AV-MP2-C	MICROPHONE (CEILING) TYPE 2	.
RS	AV-RS-W	ROOM SCHEDULER (WALL) - TYPE 1	.
SP1	AV-SP1-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 1	.
SP1	AV-SP1-W	PERFORMANCE AUDIO SPEAKER (WALL) - TYPE 1	.
TP1	AV-TP1-W	AUDIO/VIDEO TOUCH PANEL (WALL)	.
WP1	AV-WP1-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 1	.
WP4	AV-WP4-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 4	.
C#-WAP	SC-IO-CWAP	WIRELESS ACCESS POINT INFORMATION OUTLET (CEILING)	1.
C#	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
C#	SC-IO-F	INFORMATION OUTLET (FLOOR)	1., 4.
HH	SC-HH-1	HANDHOLE	.
CAM ## - ##	N/A	CLOSED CIRCUIT TELEVISION (CCTV) SURFACE CAMERA	3.
CAM ## - ##	N/A	CLOSED CIRCUIT TELEVISION (CCTV) CEILING CAMERA	3.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETERø 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 T600 FOR ADDITIONAL INFORMATION.
2. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION.
3. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON T601 AND CAMERA TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE AND THE INDIVIDUAL CAMERA TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
4. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO THE TECHNOLOGY FLOOR PLANS AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 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
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
HH	HANDHOLE

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	T.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	E.C.	E.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.	
FLOOR BOX (ROUGH-IN)	T & E 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
MC-1	1/T300	1/T101	129

TECHNOLOGY GENERAL NOTES:

1. ###.### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT TAG"
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:

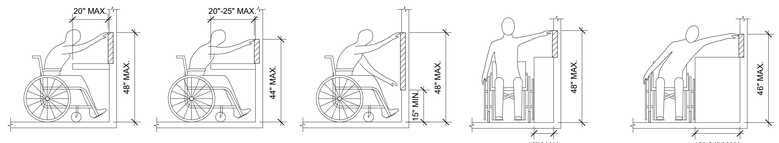
1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED 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. ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 27 05 28 AND 27 11 00 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 OUTSIDE PLANT NOTES

1. THE LOCATION OF THE CONDUIT, HAND HOLES, AND MAINTENANCE HOLES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIVATE AND/OR PUBLIC PRIOR TO THE INSTALLATION OF THE COMPONENT. FIELD COORDINATE THE FINAL LOCATION WITH THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
2. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES, IF APPLICABLE, SHALL BE INCLUDED IN THE CONTRACTOR'S BID. CONTRACTOR IS RESPONSIBLE FOR FINAL PLACEMENT OF HANDHOLES MAINTENANCE HOLES AND SHALL NOTIFY THE ENGINEER OF FINAL LOCATIONS PRIOR TO INSTALLATION.
3. HAND HOLES MAINTENANCE HOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE GROUND LINE.
4. REMOVAL AND REPLACEMENT OF THE EXISTING UNDERGROUND UTILITIES THAT ARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
5. CONTRACTOR SHALL INCLUDE WITHIN THEIR BID ANY REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, GRASS, SHRUBS, TREES, ETC. THAT WILL BE IMPACTED BY THE INSTALLATION OF THE NEW CONDUITS SHOWN ON THE DRAWINGS. IF TREES ARE REQUIRED TO BE REMOVED THE CONTRACTOR SHALL CONTACT THE OWNER AND DISCUSS OPTIONS PRIOR TO CUTTING DOWN ANY TREE OR SHRUB OVER 5" IN HEIGHT.
6. NO ADDITIONAL COST SHALL BE APPROVED FOR PLACING CONDUITS DEEPER THAN REQUIRED MINIMUM DEPTH TO AVOID EXISTING UNDERGROUND UTILITIES.
7. PROVIDE A MINIMUM OF 25'-0" SLACK LOOP WITHIN EACH HAND HOLE MAINTENANCE HOLES. SLACK LOOP SHALL BE SECURE SO COPPER OR FIBER IS NOT RESTING ON EARTH AFTER FINAL INSTALLATION.

TECHNOLOGY SHEET INDEX

T000 TECHNOLOGY COVER SHEET
T050 SITE PLAN - TECHNOLOGY
T100 LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
T101 LEVEL 1 FLOOR PLAN - TECHNOLOGY
T300 ENLARGED PLANS - TECHNOLOGY
T400 TECHNOLOGY DETAILS
T500 TECHNOLOGY DIAGRAMS
T501 TECHNOLOGY DIAGRAMS
T502 TECHNOLOGY DIAGRAMS
T600 TECHNOLOGY SCHEDULES
T601 TECHNOLOGY SCHEDULES
T602 GENERAL TECHNOLOGY EQUIPMENT SCHEDULE



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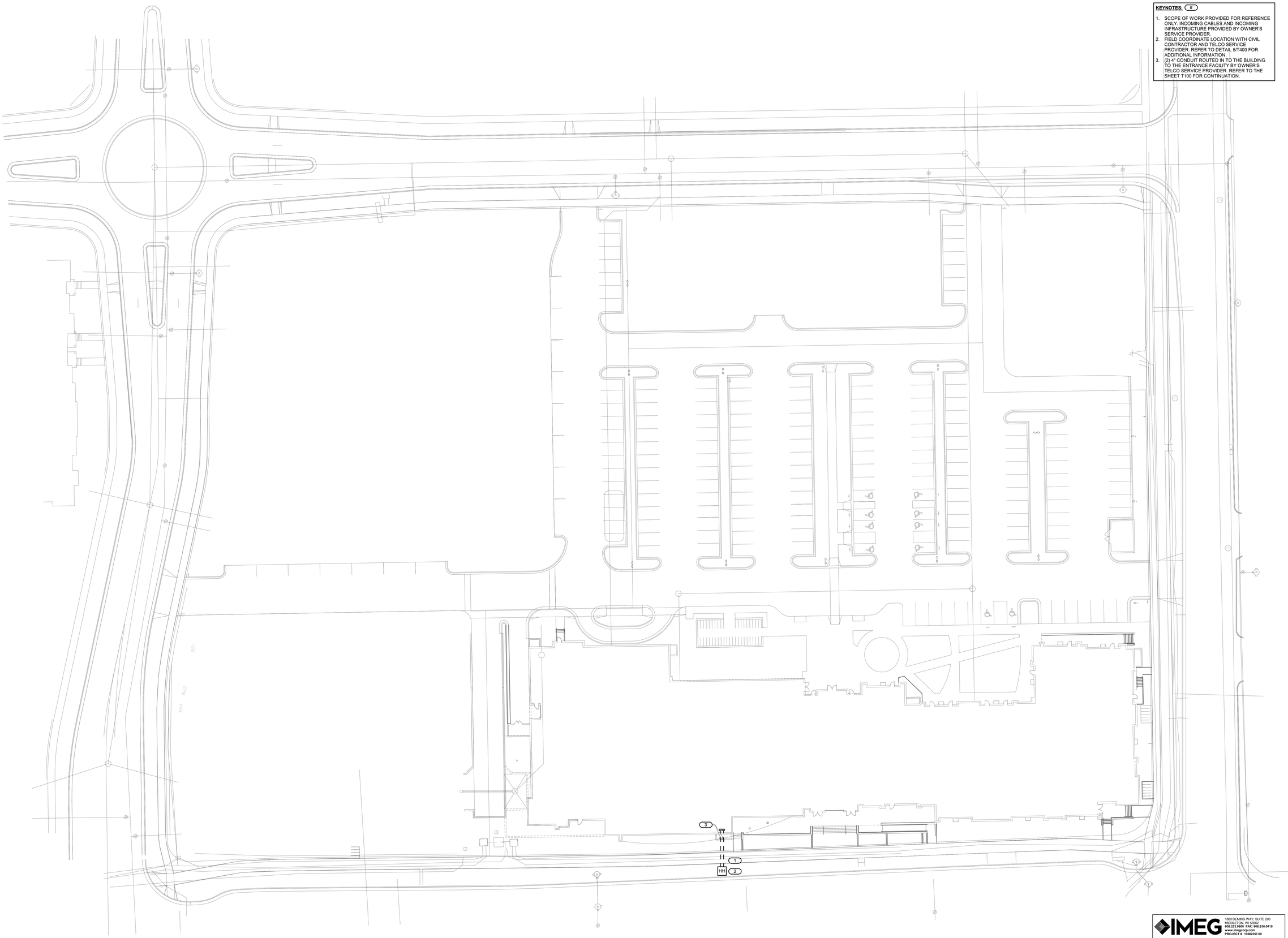
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TECHNOLOGY COVER SHEET

Sheet Number
T000

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KEYNOTES: (#)

1. SCOPE OF WORK PROVIDED FOR REFERENCE ONLY. INCOMING CABLES AND INCOMING INFRASTRUCTURE PROVIDED BY OWNER'S SERVICE PROVIDER.
2. FIELD COORDINATE LOCATION WITH CIVIL CONTRACTOR AND TELCO SERVICE PROVIDER. REFER TO DETAIL 5/T400 FOR ADDITIONAL INFORMATION.
3. (2) 4" CONDUIT ROUTED IN TO THE BUILDING TO THE ENTRANCE FACILITY BY OWNER'S TELCO SERVICE PROVIDER. REFER TO THE SHEET T100 FOR CONTINUATION.

NORTH

1 **SITE PLAN - TECHNOLOGY**
1/2" = 1'-0"

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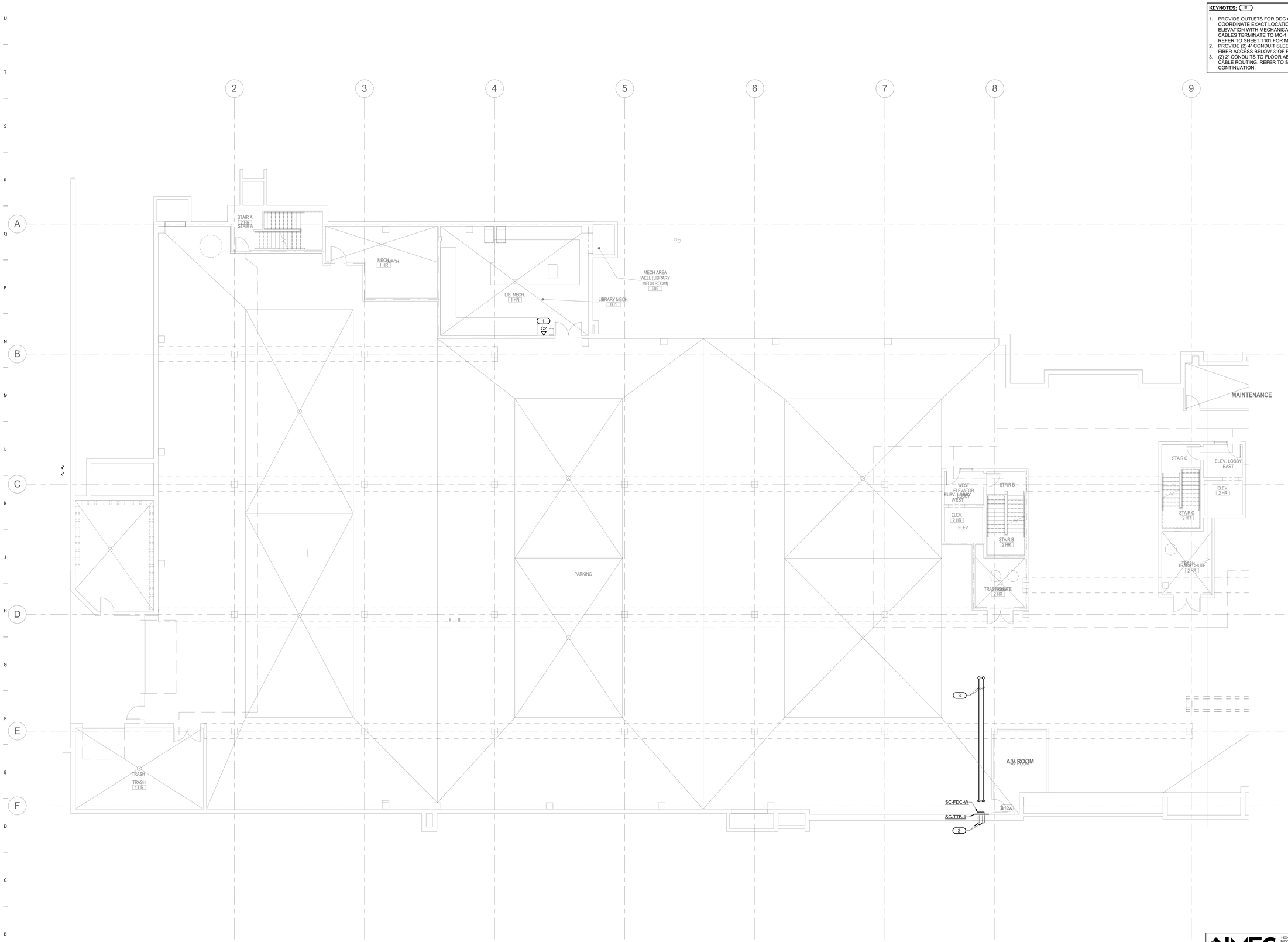
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SITE PLAN - TECHNOLOGY

Sheet Number
T050

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KEYNOTES: (#)

1. PROVIDE OUTLETS FOR DDC CONTROLS. FIELD COORDINATE EXACT LOCATION AND ELEVATION WITH MECHANICAL CONTRACTOR. CABLES TERMINATE TO MC-1 ON LEVEL 1. REFER TO SHEET T101 FOR MC-1 LOCATION.
2. PROVIDE (2) 4" CONDUIT SLEEVES FOR CITY'S FIBER ACCESS BELOW 3' OF FINISHED GRADE.
3. (2) 2" CONDUITS TO FLOOR ABOVE FOR TELCO CABLE ROUTING. REFER TO SHEET T101 FOR CONTINUATION.



1 LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
1/8" = 1'-0"

NORTH

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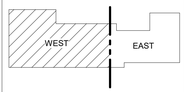
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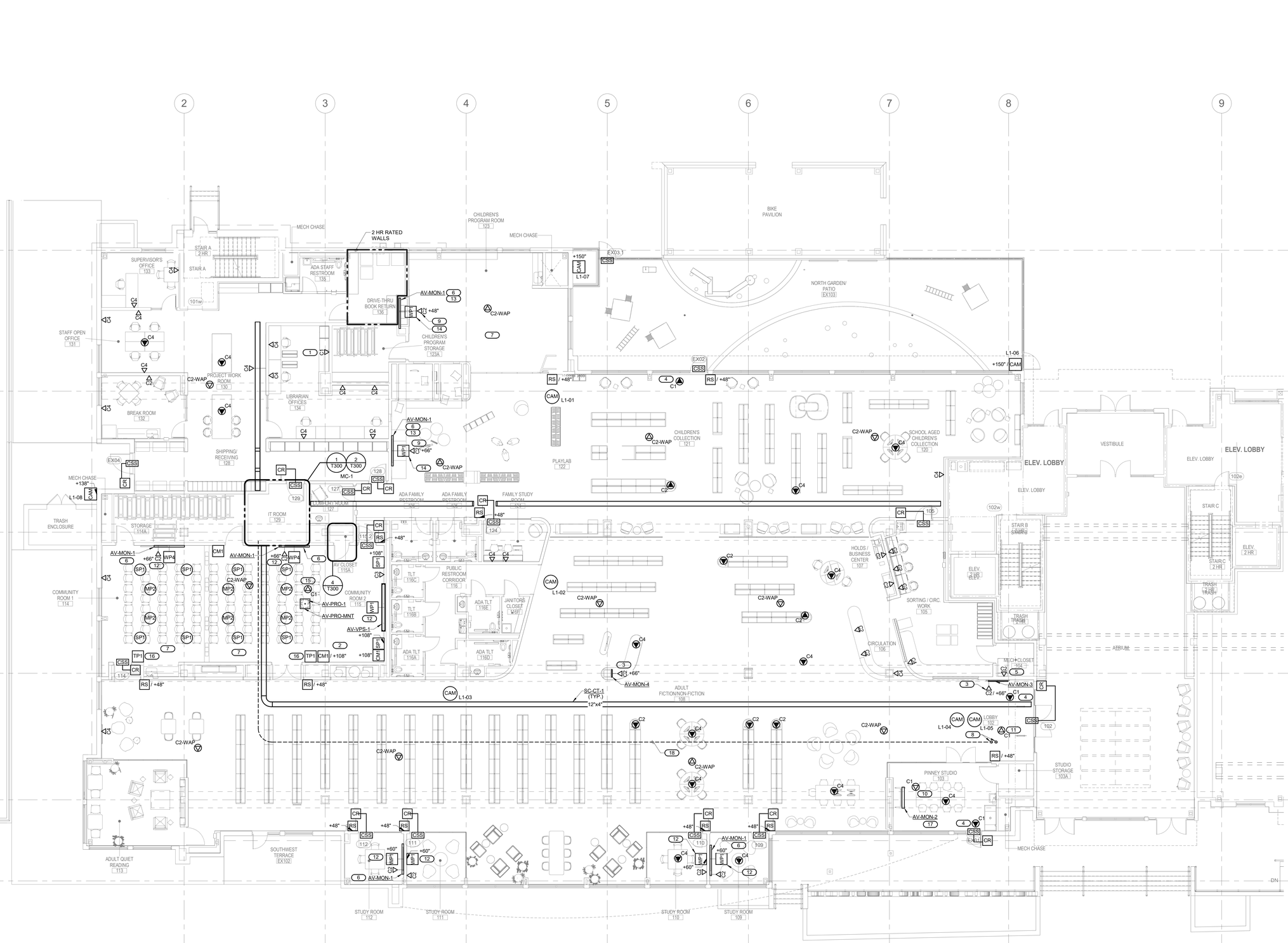
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Sheet Name
LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY

Sheet Number
T100

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1 LEVEL 1 FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"

GENERAL NOTES :

1. ALL INFORMATION OUTLETS THIS SHEET ARE FED FROM MC-1 UNLESS NOTED OTHERWISE. REFER TO SHEET T600 FOR INFORMATION OUTLET SCHEDULE.
2. CABLES ROUTED THROUGH RAISED FLOOR MUST BE FIELD COORDINATED WITH OTHER TRADE ROUTING UNDER FLOOR PRIOR TO INSTALLATION.
3. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 FOR ADDITIONAL INFORMATION.
4. PROVIDE DATA OUTLETS AND ALL CABLING WITHIN ALL SYSTEMS FURNITURE AT APPROXIMATE LOCATIONS AS INDICATED.

KEYNOTES: (#)

1. INFORMATION OUTLET PROVIDED FOR ACCESS CONTROL WORK STATION.
2. LOCATE OWNER PROVIDED CRESTRON AIR MEDIA DEVICE IN THIS ROOM.
3. INFORMATION OUTLET FOR DIGITAL SIGNAGE MONITOR.
4. INFORMATION OUTLET FOR EXIT GATES. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.
5. INFORMATION OUTLET FOR HVAC CONNECTION. FIELD COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND ELEVATION OF OUTLET.
6. PROVIDE MONITOR WITH ARTICULATING MOUNT, AV-MNT-3. REFER TO ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR COORDINATION OF MOUNTING ELEVATION.
7. PROVIDE ASSISTED LISTENING INDUCTION LOOP WITHIN THIS ROOM.
8. (2) 2" CONDUIT SLEEVES UNDER RAISED FLOOR TO INCOMING TELCO SERVICE. COORDINATE EXACT LOCATION WITH OTHER TRADE WORK UNDER FLOOR. REFER TO SHEET T100 FOR CONTINUATION.
9. INSTALL INFORMATION OUTLET IN WP1 RECESSED AV WALL BOX. AV BOX PROVIDED TO E.C. FOR INSTALLATION BY DIVISION 27 CONTRACTOR. REFER TO GTES FOR ADDITIONAL INFORMATION.
10. OUTLET PROVIDED FOR FUTURE PROJECTOR. INCLUDE ADDITIONAL 5' SLACK LOOP AND COORDINATE FINAL MOUNTING LOCATION WITH OWNER.
11. INFORMATION OUTLET PROVIDED FOR OWNER PROVIDED COUNTING SENSOR. TERMINATE CABLE AT OUTLET END WITH RJ45 MALE PLUG. PROVIDE CABLE WITH ADDITIONAL 5' SLACK LOOP. FIELD COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
12. INSTALL C3 OUTLET IN WP1 BOX. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR OUTLET CONFIGURATION. REFER TO ARCHITECTURAL DRAWING A310 FOR ADDITIONAL MOUNTING DETAILS AND INFORMATION.
13. PROVIDE MONITOR WITH SOUND BAR INCLUDED.
14. PROVIDE C2 OUTLET IN RECESSED AV BOX.
15. PROVIDE INFORMATION OUTLET FOR PROJECTOR CONNECTION TO LOCAL AREA NETWORK. FIELD COORDINATE EXACT MOUNTING WITH PROJECTOR MOUNT.
16. REFER TO ELECTRICAL DRAWINGS AND COORDINATE TOUCH PANEL MOUNTING WITH LIGHTING CONTROLS.
17. PROVIDE MONITOR WITH MOBILE CART.
18. ROUTE FIBER TO IT ROOM 129. FIELD COORDINATE FIBER PATH WITH UNDERFLOOR PEDESTALS. (I.E. SHORTEST PATH MAY NOT WORK)

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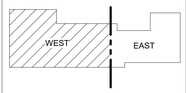
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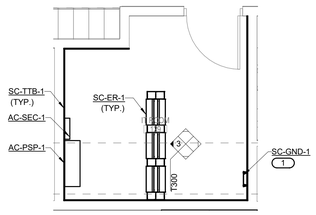
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LEVEL 1 FLOOR PLAN - TECHNOLOGY

Sheet Number
T101

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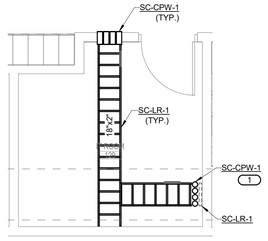


1 TELECOM ROOM 129 MC-1 ENLARGED PLAN

1/4" = 1'-0"

NOTES:
1. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
2. COORDINATE INSTALLATION SCHEDULE FOR UTILITY/SERVICE POWER OUTLETS AND ANY EQUIPMENT POWER CONNECTION REQUIRED FOR CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT IN TELECOM ROOM 129 MC-1 WITH ON SITE DIVISION 26 CONTRACTOR PRIOR TO ROUGH-IN.
3. REFER TO 2/T300 FOR TELECOM ROOM 129 MC-1 PATHWAY LAYOUT.
4. REFER TO 1/T501 FOR TECHNOLOGY BONDING RISER DIAGRAM.

KEYNOTES:
1. REFER TO 2/T400 FOR ADDITIONAL INFORMATION. INSTALL AT A HEIGHT OF 18" AFF TO THE TOP OF THE GROUND BAR.

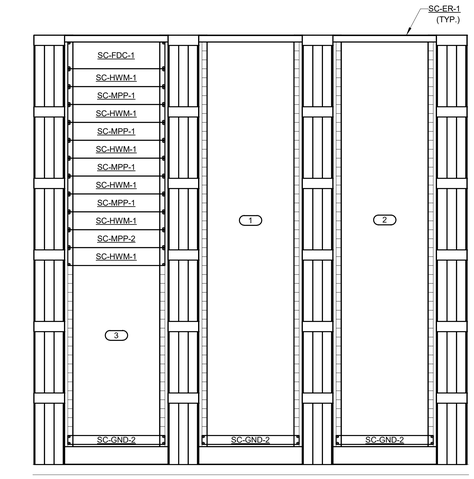


2 TELECOM ROOM 129 MC-1 PATHWAY LAYOUT

1/4" = 1'-0"

NOTES:
1. CONFIRM ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
2. FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 3/T400 AND 4/T400 FOR ADDITION INFORMATION.
3. PROVIDE VERTICALLY MOUNTED LADDER RACK/CABLE MANAGEMENT TO ORGANIZE AND SUPPORT CABLES ROUTED OVER TO EQUIPMENT RACKS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:
1. SLEEVES PROVIDED IN RAISED FLOOR FOR CABLE DISTRIBUTION.

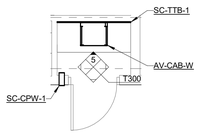


3 TELECOM ROOM 129 MC-1 RACK ELEVATION

1" = 1'-0"

NOTES:
1. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
2. FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 3/T400 FOR ADDITION INFORMATION.
3. PROVIDE CABLE MANAGEMENT AND COORDINATE AC POWER AND VENTILATION REQUIREMENTS.
4. ALLOW AT LEAST 3 RACK UNIT AT TOP OF THE MAIN RACK FOR NEW OPTICAL FIBER CABLE PATCH PANEL THAT WILL BE INSTALLED BY ANOTHER PROJECT. DO NOT INSTALL HORIZONTAL WIRE MANAGER AT THE VERY TOP OF THE RACK.

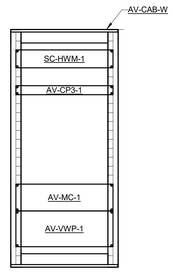
KEYNOTES:
1. SPACE FOR OWNER PROVIDED EQUIPMENT (ETHERNET SWITCHES, ETC.).
2. SPACE RESERVED FOR ADDITIONAL PATCH PANELS.
3. SPACE RESERVED FOR SOUTH-CENTRAL LIBRARY SYSTEM EQUIPMENTS.



4 AV CLOSET 115A - ENLARGED PLAN

1/4" = 1'-0"

NOTES:
1. AV CABINET PROVIDED BY DIVISION 27 CONTRACTOR.
2. MAXIMUM HEIGHT AT TOP OF MOUNTED CABINET NOT TO EXCEED 72" AFF.



5 AV CLOSET 115A - RACK ELEVATION

1" = 1'-0"

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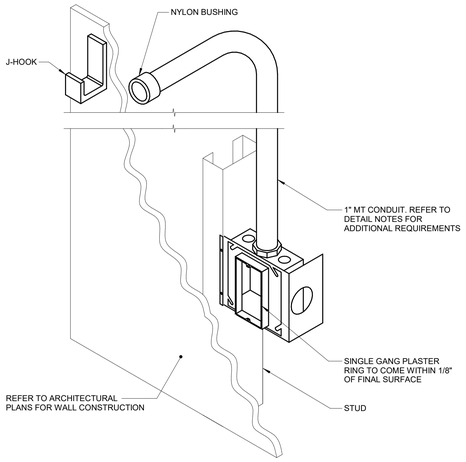
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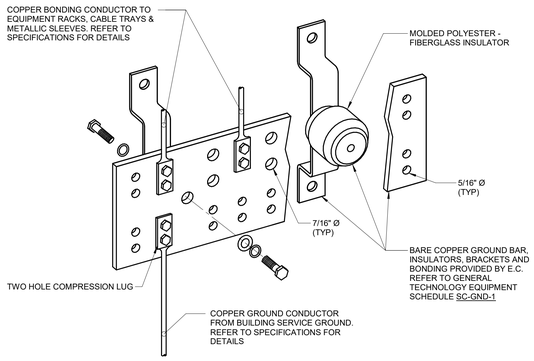
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1 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

NO SCALE

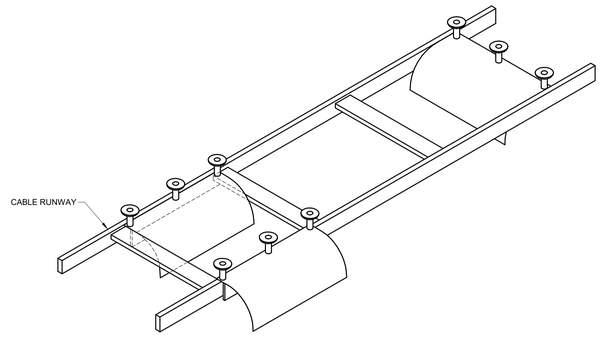
NOTES:
1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
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. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



2 BONDING BUS BAR DETAIL

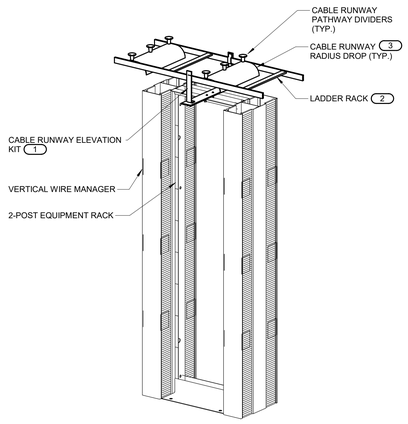
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NOTES:
1. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
2. REFER TO 27501 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



3 CABLE RUNWAY RADIUS DROP

NO SCALE

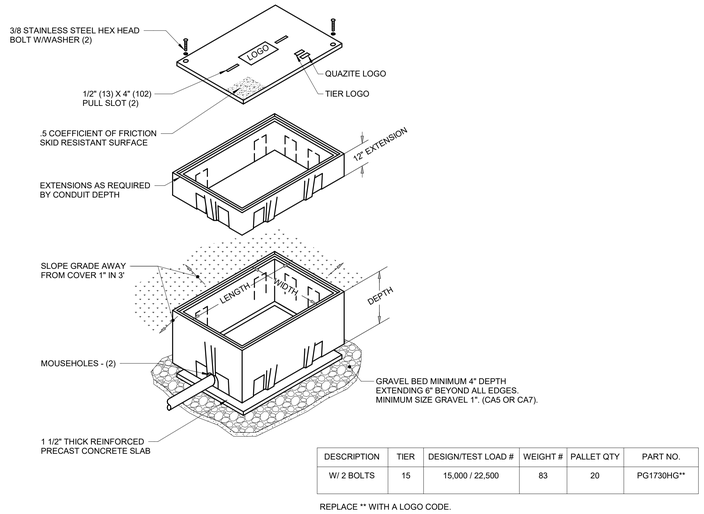


4 LADDER RACK MOUNTING DETAIL

NO SCALE

NOTES:
1. ALL LADDER RACK AND ACCESSORIES TO BE INSTALLED FOR A COMPLETE INSTALLATION SHALL BE FROM THE SAME MANUFACTURER.

KEYNOTES:
1. MOUNT THE LADDER RACK NO MORE THAN +6" ABOVE THE FLOOR MOUNTED RACK. ADJUST THE CABLE RUNWAY ELEVATION KIT AS REQUIRED.
2. REFER TO THE INDIVIDUAL PATHWAY DRAWINGS FOR THE LADDER RACK SIZE.
3. A MINIMUM OF (1) RADIUS DROP INTO EACH VERTICAL WIRE MANAGER. REFER TO THE INDIVIDUAL TELECOM ROOM LAYOUTS, PATHWAY LAYOUTS, AND RACK ELEVATIONS FOR QUANTITY OF WIRE MANAGERS AND ADDITIONAL INFORMATION.



DESCRIPTION	TIER	DESIGN/TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
W/ 2 BOLTS	15	15,000 / 22,500	83	20	PG1730HG**

REPLACE ** WITH A LOGO CODE.

5 EXTERIOR HANDHOLE DETAIL

NO SCALE

NOTES -
1. DETAIL PROVIDED FOR REFERENCE ONLY. OUTSIDE PLANT INFRASTRUCTURE PROVIDED BY BUILDING OWNER.
2. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
3. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE.
4. SEAL ALL CONDUIT ENDS WITH DUCTSEAL.

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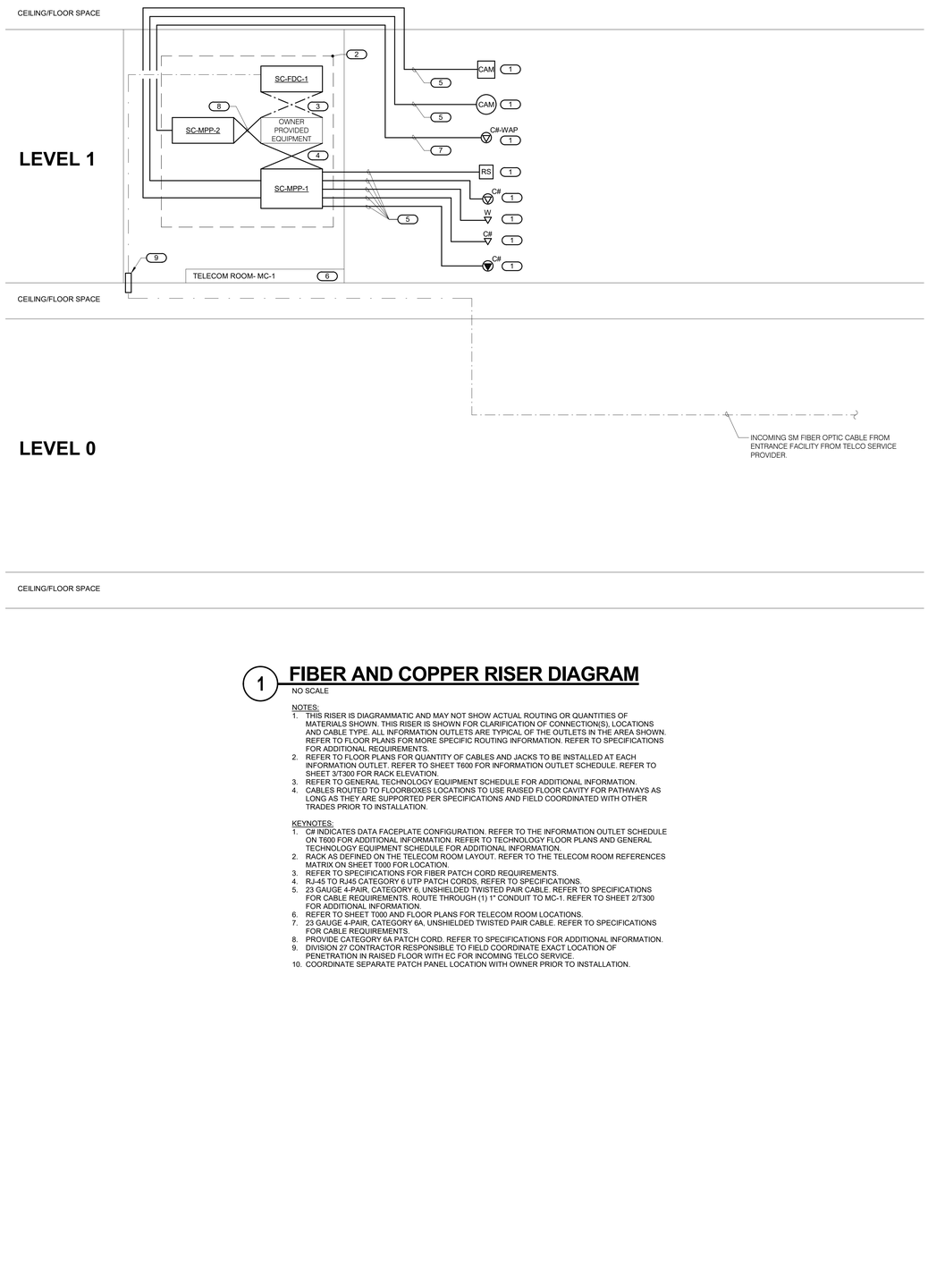
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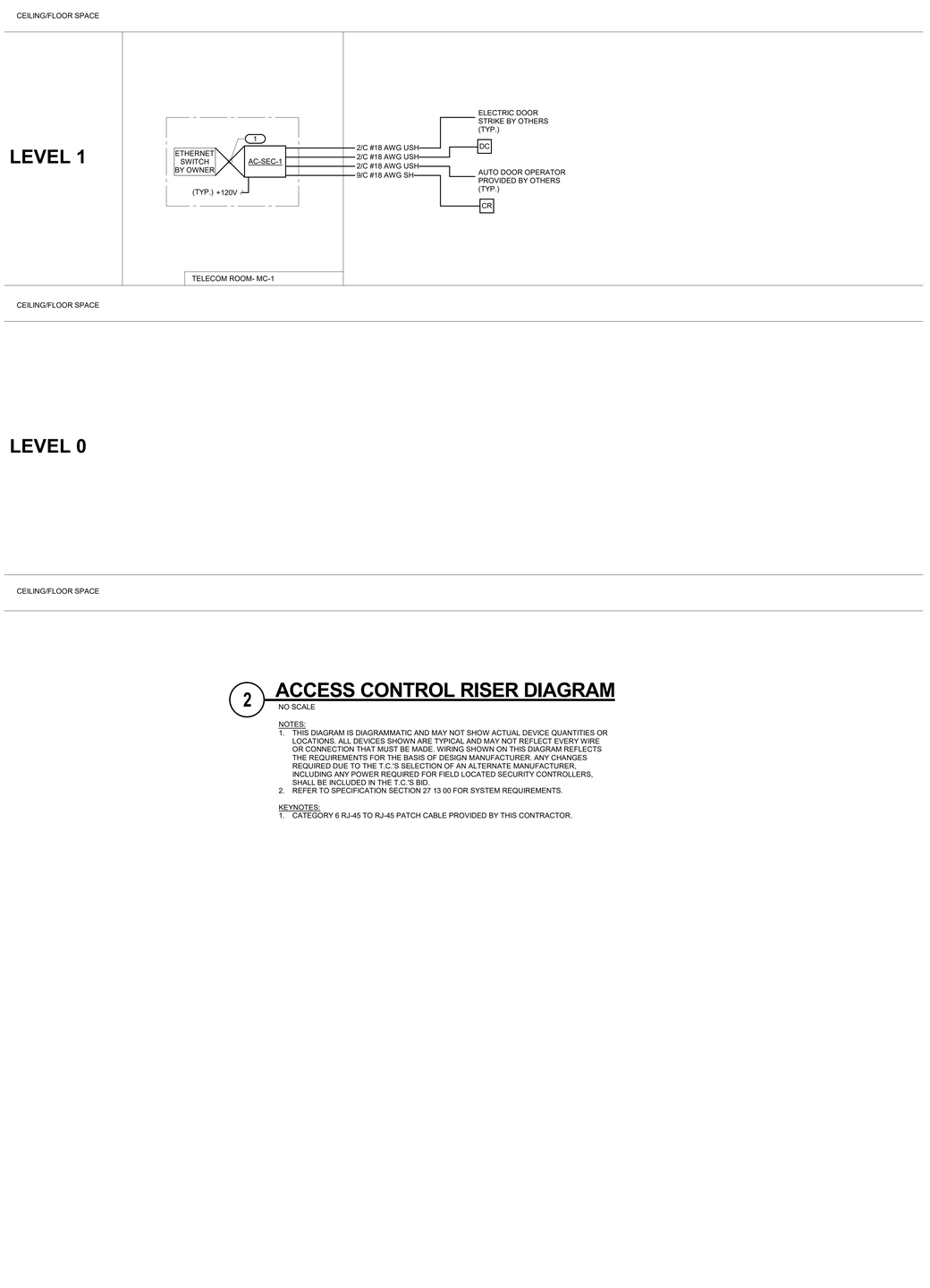


1 FIBER AND COPPER RISER DIAGRAM

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. REFER TO SHEET T600 FOR INFORMATION OUTLET SCHEDULE. REFER TO SHEET 3/T300 FOR RACK ELEVATION.
3. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
4. CABLES ROUTED TO FLOORBOXES LOCATIONS TO USE RAISED FLOOR CAVITY FOR PATHWAYS AS LONG AS THEY ARE SUPPORTED PER SPECIFICATIONS AND FIELD COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.

KEYNOTES:
1. C# INDICATES DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY FLOOR PLANS AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON SHEET T000 FOR LOCATION.
3. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
4. RJ-45 TO RJ45 CATEGORY 6 UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 23 GAUGE 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS. ROUTE THROUGH (1) 1" CONDUIT TO MC-1. REFER TO SHEET 2/T300 FOR ADDITIONAL INFORMATION.
6. REFER TO SHEET T000 AND FLOOR PLANS FOR TELECOM ROOM LOCATIONS.
7. 23 GAUGE 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS.
8. PROVIDE CATEGORY 6A PATCH CORD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. DIVISION 27 CONTRACTOR RESPONSIBLE TO FIELD COORDINATE EXACT LOCATION OF PENETRATION IN RAISED FLOOR WITH EC FOR INCOMING TELCO SERVICE.
10. COORDINATE SEPARATE PATCH PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION.



2 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. REFER TO SPECIFICATION SECTION 27 13 00 FOR SYSTEM REQUIREMENTS.

KEYNOTES:
1. CATEGORY 6 RJ-45 TO RJ-45 PATCH CABLE PROVIDED BY THIS CONTRACTOR.

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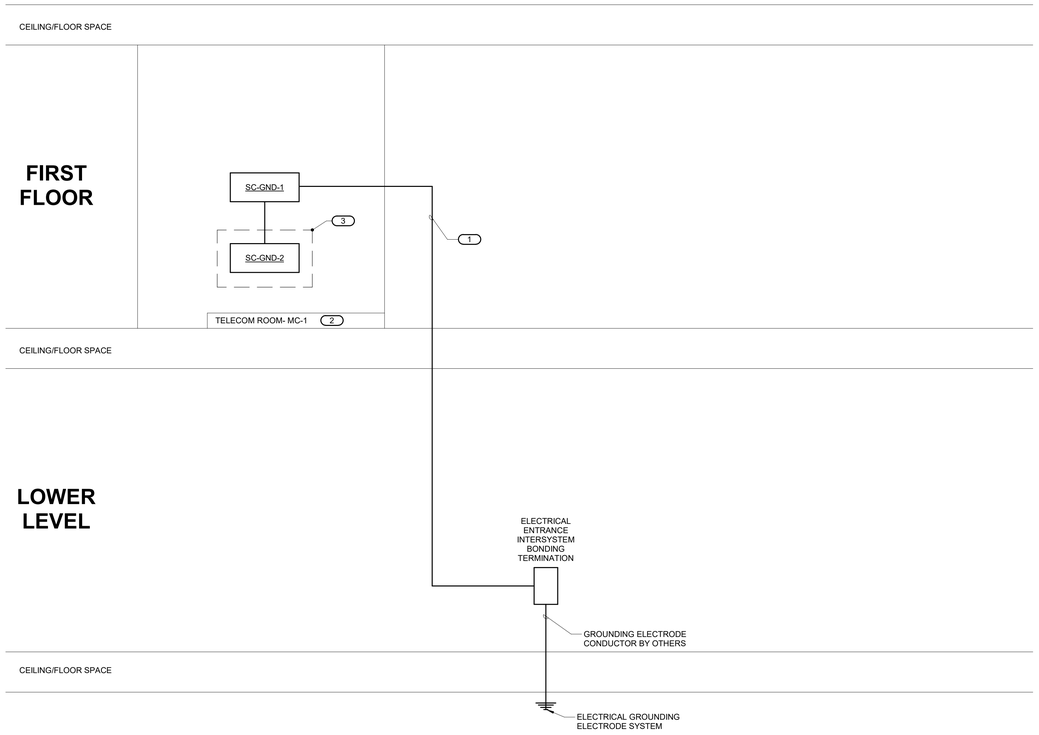
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Sheet Name
TECHNOLOGY DIAGRAMS

Sheet Number
T500

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1 TECHNOLOGY BONDING RISER DIAGRAM

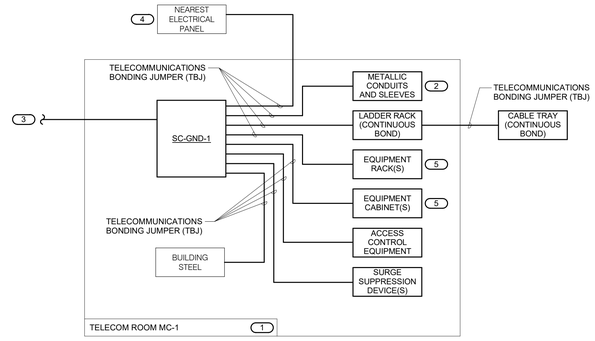
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NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE 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/T501 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOM 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.
2. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOM ROOM LOCATIONS.
3. RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.

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 2/T400 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 TELECOM ROOM NUMBER AND LOCATION INFORMATION.
2. INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
3. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 1/T501 FOR TECHNOLOGY BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS.
4. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
5. PROVIDE SC-GND-2 RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK OR CABINET.

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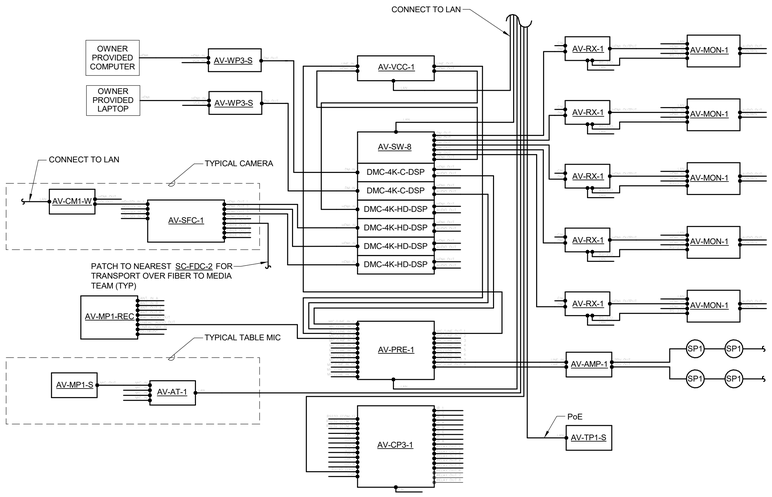
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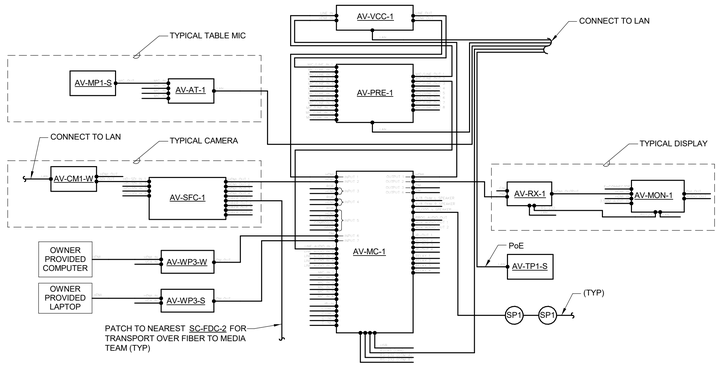


1 COMMUNITY ROOM AV RISER DIAGRAM

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 CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.



2 TYPICAL AV 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 CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.

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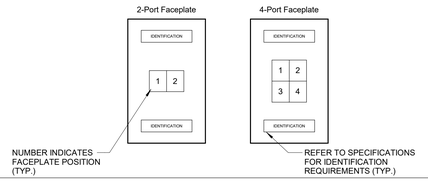
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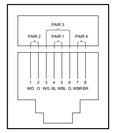
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INFORMATION OUTLET SCHEDULE

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. PROVIDE WAP LOCATIONS WITH CATEGORY 6A CABLE AND CATEGORY 6A RJ45 JACKS.
2. PROVIDE CONDUIT AND BACKBOX ROUGH-IN FOR ROOM SCHEDULER DEVICE. REFER TO GTES FOR ROOM SCHEDULER DETAILS.

LEGEND

CAT6	CAT6 RJ-45
CAT6A	CAT6A RJ-45
BL	BLANK FILLER MODULE
HDMI	HDMI COUPLER MODULE

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION: POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	NOTES
C1	2	CAT6	BL			
C2	2	CAT6	CAT6			
C2-WAP	2	CAT6A	CAT6A			1.
C3	4	CAT6	CAT6	HDMI	BL	
C4	4	CAT6	CAT6	CAT6	CAT6	
CAM	1	CAT6				
RS	1	CAT6				2.

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TECHNOLOGY SCHEDULES

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T600

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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 FOR CREDENTIAL READER TYPE INFORMATION.

		CREDENTIAL READER					REQUEST TO EXIT			DOOR HARDWARE										OTHER (REFER TO NOTES)			
DOOR #	ROUGH-IN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	WIRELESS	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	NOTES
102		CR				•			•					•				•	
105		CR				•			•					•				•	
109		CR				•			•					•				•	
110		CR				•			•					•				•	
111		CR				•			•					•				•	
112		CR				•			•					•				•	
114		CR				•			•					•				•	
115.2		CR				•			•					•				•	
124		CR				•			•					•				•	
127		CR				•			•					•				•	
128		CR				•			•					•				•	
129		CR				•			•					•				•	
EX01		CR				•			•					•				•	
EX02		N/A												•				•	
EX03.1		N/A												•				•	
EX04		CR				•			•					•				•	

CCTV CAMERA TYPE SCHEDULE

| | CAMERA | | | | | | | | | | | | | | | | | | | | LENS | | | | | ENCLOSURE | | | | | | | | | | | | | | | | | | |

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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 TAG	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR-W	ACCESS CONTROL DUAL PROXIMITY AND KEYPAD READER, WALL MOUNTED. INTEGRATED PROXIMITY AND KEYPAD READER. OCCUPIES ONE READER PORT ON KEYSCAN ACCESS CONTROL SYSTEMS. SUITABLE FOR OUTDOOR USE IN ALL WEATHER CONDITIONS. MMOUNTS TO A SINGLE GANG WALL BOX. BLUE BACKLIGHTING FOR USE IN LOW LIGHT AREAS. LIFETIME WARRANTY AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO T601 FOR CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL. REFER TO 2/T500 FOR CABLING REQUIREMENTS.	KEYSCAN K-KPR OR PRE-APPROVED EQUAL
AC-PSP-1	ACCESS CONTROL LOW VOLTAGE DOOR POWER SUPPLY. 16 PTC PROTECTED OUTPUTS, 24 VDC @ 8 AMP TOTAL OUTPUT. BUILT-IN CHARGER FOR LEAD ACID OR GEL TYPE BATTERIES. PROVIDE WITH (2) 12AH BATTERIES. AC FAIL SUPERVISION AND LOW BATTERY SUPERVISION FORM C CONTACT CLOSURES. UL 294 AND 1481 LISTED FOR ACCESS CONTROL AND FIRE SIGNALING.	*
AC-SEC-1	ACCESS CONTROL SECURITY CONTROL PANEL. REFER TO SPECIFICATION 28 13 00 FOR COMPLETE INFORMATION AND MODEL NUMBER.	*
AV-AMP-1	COMMERCIAL AMPLIFIER, REAR TO FRONT FAN COOLED, TWO XLR/TERMINAL BLOCK INPUTS, 2 X 300 WATTS @ 70V PER CHANNEL. 1 KHZ 1% THD, (2) RU SPACE, 3.5" H X 19" W X 14 D.	QSC CX302V CROWN ATLAS
AV-ANT-W	2-CHANNEL ASSISTED LISTENING ROOM TRANSMITTER ANTENNA, IR TRANSMISSION TECHNOLOGY FOR MEDIUM TO LARGE ROOMS, BALANCED CABLING ROUTES SIGNAL INPUT FROM AV HEAD END THROUGH AV-WP1-W RECESSED DISPLAY BOX, MOUNTS ABOVE DISPLAY.	LISTENTECH LT-84 OR PRE-APPROVED EQUAL
AV-AT-1	4 CHANNEL DANTE NETWORK INTERFACE, ONE 10/100 LAN PORT, 4 MIC INPUTS, INSTALL UNDER LECTERN FOR CONNECTION OF AV-MP1-S AS SHOWN ON DRAWINGS.	SHURE ANI4IN OR PRE-APPROVED EQUAL
AV-CAB-W	A/V CABINET, WALL MOUNT.	HUBBELL HSQ2648 OR PRE-APPROVED EQUAL
AV-CM1-W	AV PTZ CAMERA FOR VIDEO CONFERENCE, 10/100 LAN INTERFACE, HDMI OUTPUTS, WALL MOUNTED AS SHOWN ON DRAWING, MOUNT USING VADDIO 535-2000-243 STEEL SHELF (OR SIMILAR). PROVIDE CAMERA IN WHITE.	PANASONIC AW-UE70 SONY
AV-CP3-1	CONTROL PROCESSOR FOR SINGLE OR DIVISIBLE ROOM A/V CONTROL, SUPPORTS 7" WALL TOUCH PANEL INTERFACE AND HANDHELD HARD BUTTON RF REMOTE CONTROL, LOCAL AREA NETWORK CONTROL AND PROGRAMMING INTERFACE AND RS232, CONTACT CLOSURE AND INFRARED CONTROL FOR COMMERCIAL AND CONSUMER A/V DEVICES, 1 RU HEIGHT, REFER TO A/V RISERS ON T502 FOR CONTROL PORT REQUIREMENTS.	CRESTRON CP3 EXTRON
AV-DC-S	DOCUMENT CAMERA, SURFACE OR TABLE MOUNT, FULL HD RESOLUTION, 16X OPTICAL ZOOM, LED LIGHTING AND ADJUSTABLE FREE ANGLE CAMERAARM, HDMI AND VGA OUTPUTS, COLLABORATIVE ANNOTATION AND INTEGRATION CAPABILITY.	ELMO P30HD EPSON WOLFVISION
AV-DMP-1	NETWORK DIGITAL SIGNAGE PLAYER, DECODES AND PRESENTS IMAGES AND VIDEO FROM A LOCAL SSD DRIVE OR NETWORK STORE, (1) 100/1000 RJ-45 LAN CONNECTION AND (1) HDMI OUTPUT, SMALL FORMAT FOR REAR MOUNTING BEHIND A DISPLAY, 6.5" X 4.5" X 1.5" DIMENSIONS.	BRIGHTSIGN LS423 OR PRE-APPROVED EQUAL
AV-MC-1	SCALING PRESENTATION SWITCHER AND CONTROLLER, 8 INPUTS INCLUDING MINIMUM 2 HDMI, 2 HDBASET, AND ANALOG RCA AUDIO, 2 SWITCHED HDMI AND 2 SWITCHED HDBASET OUTPUTS AND 1 ANALOG AUDIO OUTPUTS WITH INTEGRATED 70V AMPLIFIER, INPUT SCALING TO 1080P AND WUXGA (1920 X 1200) OUTPUT, LAN OR RS232 CONTROL OF AUDIO VIDEO EQUIPMENT, 3 RU HEIGHT.	CRESTRON DMPS3-4K-350-C EXTRON
AV-MNT-1	TILTING WALL-MOUNTED DISPLAY MOUNT, TILTS +5 TO -12 DEGREES, FITS SCREEN SIZES 60" TO 80", ADJUSTABLE LATERAL SHIFT, MAXIMUM WEIGHT 200 LBS.	CHIEF XTM1U PREMIER PEERLESS
AV-MNT-2	TILTING WALL-MOUNTED DISPLAY MOUNT, TILTS +5 TO -12 DEGREES, FITS SCREEN SIZES 50" TO 70", ADJUSTABLE LATERAL SHIFT, MAXIMUM WEIGHT 150 LBS.	CHIEF LTM1U PREMIER PEERLESS
AV-MNT-3	ARTICULATING WALL-MOUNTED DISPLAY MOUNT, TILTS +5 TO -12 DEGREES, FITS SCREEN SIZES 40" TO 60", ADJUSTABLE LATERAL SHIFT, MAXIMUM WEIGHT 100 LBS.	CHIEF PNRUB PREMIER PEERLESS
AV-MNT-4	TILTING WALL-MOUNTED MONITOR MOUNT, TILTS +5 TO -12 DEGREES, ABILITY TO LOCK MOVEMENT, VESA 100x100.	CHIEF K0W100B PREMIER PEERLESS
AV-MON-1	LED/LCD DISPLAY MONITOR, 80", 16:9 ASPECT RATIO, 3840x2160 PIXEL RESOLUTION, 5000:1 CONTRAST RATIO, 3 HDMI IN, DISPLAYPORT INPUT, DVI-D INPUT, RJ45 AND DB9 SERIAL RS-232 IN AND OUT.	SAMSUNG QM-D SERIES SHARP OR PRE-APPROVED EQUAL
AV-MON-2	LED/LCD DISPLAY MONITOR, 65", 16:9 ASPECT RATIO, 3840x2160 PIXEL RESOLUTION, 5000:1 CONTRAST RATIO, 3 HDMI IN, DISPLAYPORT INPUT, DVI-D INPUT, RJ45 AND DB9 SERIAL RS-232 IN AND OUT.	SAMSUNG QM-H SERIES SHARP OR PRE-APPROVED EQUAL
AV-MON-3	LED/LCD DISPLAY MONITOR, 55", 16:9 ASPECT RATIO, 3840x2160 PIXEL RESOLUTION, 5000:1 CONTRAST RATIO, 3 HDMI IN, DISPLAYPORT INPUT, DVI-D INPUT, RJ45 AND DB9 SERIAL RS-232 IN AND OUT.	SAMSUNG QM-H SERIES SHARP OR PRE-APPROVED EQUAL
AV-MON-4	WALL MOUNT 22" LED TOUCH ENABLED PC DISPLAY.	SAMSUNG LH22DBDPTGC OR PRE-APPROVED EQUAL
AV-MP1-REC	STANDARD DIVERSITY WIRELESS MICROPHONE RECEIVER WITH HANDHELD MIC, PROGRAMMABLE CHANNELS, MIC AND LINE OUTPUTS, DETACHABLE AND REMOTE LOCATABLE 1/2 WAVE ANTENNA, RACK MOUNTABLE IN 1 RU.	SHURE ULX AKG TELEX
AV-MP1-S	SURFACE MOUNT GOOSENECK MICROPHONE WITH BASE. PROVIDE TO OWNER TO FACILITATE FUTURE LARGE GROUP PANEL DISCUSSIONS.	SHURE MX412 AKG
AV-MP2-C	CEILING MOUNTED ACTIVE MICROPHONE ARRAY WITH DANTE CONNECTIVITY, 1 RJ-45 LAN CONNECTION, FITS 2x2 ACT GRID.	SHURE MXA910
AV-PRE-1	DANTE ENABLED DIGITAL PREAMP AND MIC/LINE MIXER WITH EIGHT MIC/LINE INPUTS AND MINIMUM TWO OUTPUTS WITH PARAMETRIC EQ, COMPRESSOR AND INPUT DUCKING, CONTROL INTERFACE VIA RS232 OR LAN WITH FULL DISCRETE COMMAND SET FOR ZONE VOLUME, INPUT LEVELS AND INPUT SWITCHING, 2 RU HEIGHT.	BIAMP TESIRAFORTE CRESTRON
AV-PRO-1	VIDEO PROJECTOR.	TBD
AV-PRO-MNT	PROJECTOR MOUNT.	TBD
AV-RS-W	ROOM SCHEDULER, WALL MOUNT.	CRESTRON
AV-RX-1	JUNCTION BOX MOUNT 4K DIGITAL MEDIA HDBASET RECEIVER AND DISPLAY CONTROLLER, ONE DM TWISTED PAIR INPUT, ONE HDMI OUPUT AND RS-232/INFRARED CONTROL OUTPUT, WHITE COLOR, MOUNT IN AV-WP1-W DISPLAY CONNECTIVITY BOX UNLESS OTHERWISE NOTED.	CRESTRON DM-RMC-4K-100-C-1G EXTRON
AV-RX-2	NETWORK BASED AUDIO VIDEO RECEIVER WITH DANTE. CAPABLE OF DECODING NETWORK AUDIO AND 4K VIDEO WITH LESS THAN ONE FRAME (17ms) TOTAL ENCODE/DECODE LATENCY, ONE GIGABIT NETWORK CONNECTION, ONE HDMI AND LINE LEVEL AUDIO OUTPUT, RS232 CONTROL CAPABILITY.	CRESTRON DM-NVX-352 OR PRE-APPROVED EQUAL
AV-SFC-1	HD-SDI/3G-SDI TO FIBER CONVERTER TRANSCEIVER, FOR EXTENDING AV-CM1-W VIDEO SIGNAL OVER SINGLE MODE FIBER TO OWNER MEDIA TEAM, BNC HD-SDI/3G-SDI INPUTS, LC SINGLE MODE FIBER INPUTS/OUTPUTS, HDMI LOOP OUTPUTS, HDMI LOOP OUTPUTS USED TO SEND VIDEO TO AV SWITCHER AND/OR VIDEO CONFERENCING CODEC.	BLACKMAGIC ATEM CONVERTER SERIES OR PRE-APPROVED EQUAL
AV-SP1-C	PERFORMANCE AUDIO SPEAKER, RECESSED CEILING MOUNTED, PERFORMANCE AUDIO, 50 WATTS CONTINUOUS POWER HANDLING WITH 200 WATTS PEAK, 65Hz-20kHz ±3dB FREQUENCY RESPONSE, SENSITIVITY: 92dB@ 1 WATT/METER, 2100 Hz CROSSOVER FREQUENCY, 1" ALUMINUM DOME COMPRESSION DRIVER TWEETER, 5.25" IMG CONE/CAST POLYMER FRAME WOOFER.	JBL PRO 26CT OR PRE-APPROVED EQUAL
AV-SP1-W	PERFORMANCE AUDIO SPEAKER, RECESSED WALL MOUNTED, PERFORMANCE AUDIO, 50 WATTS CONTINUOUS POWER HANDLING WITH 200 WATTS PEAK, 65Hz-20kHz ±3dB FREQUENCY RESPONSE, SENSITIVITY: 92dB@ 1 WATT/METER, 2100 Hz CROSSOVER FREQUENCY, 1" ALUMINUM DOME COMPRESSION DRIVER TWEETER, 5.25" IMG CONE/CAST POLYMER FRAME WOOFER.	JBL PRO 25AV OR PRE-APPROVED EQUAL
AV-SW-8	8X8 HDMI MATRIX CARD FRAME SWITCH WITH MINIMUM TWO HDBASET TWISTED PAIR INPUTS, FOUR HDMI INPUTS, FIVE HDBASET TWISTED PAIR OUTPUTS, ONE HDMI OUTPUT.	CRESTRON DM SERIES EXTRON
AV-TP1-S	TABLE TOP MOUNT TOUCHPANEL, 7" LED CAPACITIVE EDGE TO EDGE GLASS TOUCH SCREEN, POE NETWORK POWER SUPPORT.	CRESTRON TSW-752 EXTRON
AV-TP1-W	7" LED CAPTIVE EDGE TO EDGE GLASS TOUCH SCREEN, WALL MOUNT. POE NETWORK POWER SUPPORT.	CRESTRON TSW-752 OR PRE-APPROVED EQUAL
AV-TVT-1	OWNER PROVIDED, CONTRACTOR INSTALLED HIGH DEFINITION IPTV TUNER WITH ONE 10/100 LAN INPUT, ONE DVI/HDMI AND COAXIAL OR OPTICAL DIGITAL AND ANALOG RCA OUTPUTS, INFRARED CONTROL WITH FULL DISCRETE COMMAND SET FOR POWER AND CHANNEL SELECTION, 1 RU MOUNTING HEIGHT.	*
AV-TX-2	NETWORK BASED AUDIO VIDEO TRANSMITTER WITH DANTE, CAPABLE OF ENCODING NETWORK AUDIO AND 4K VIDEO WITH LESS THAN ONE FRAME (17ms) TOTAL ENCODE/DECODE LATENCY, ONE GIGABIT NETWORK CONNECTION, ONE HDMI/VGA AND LINE LEVEL AUDIO INPUT, RS232 CONTROL CAPABILITY.	*
AV-VCC-1	VIDEO CONFERENCING CODEC WITH LAN CONNECTION AND MINIMUM ONE HDMI/DVI AND ANALOG AUDIO INPUT, ONE HDMI/DVI AND ANALOG AUDIO OUTPUT, RS-232 FOR SYSTEM CONTROL PROVIDE POLYCOM DIGITAL EXTENDER WHERE NECESSARY, RACK MOUNTABLE.	POLYCOM GS SERIES
AV-VPS-1	A/V PROJECTOR SCREEN	TBD
AV-VWP-1	SPACE PROVISIONED FOR FUTURE VIDEO WALL PROCESSOR, 4U RACK UNITS.	*
AV-WMA-1	WIRELESS MEDIA ADAPTER, PROVIDES WIRELESS A/V CONNECTIVITY TO LAPTOPS AND MOBILE DEVICES, ONE HDMI OUTPUT, ONE RJ-45 LAN CONNECTION, SMALL FORM FACTOR 6" X 2.4" X 1" FOR DISCRETE MOUNTING IN AV-WP1-W OR BEHIND DISPLAY.	CRESTRON CCS-FF-2 EXTRON
AV-WP1-W	A/V DISPLAY CONNECTIVITY BOX (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER. PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE. INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ADDITIONAL LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 60" OC AFF UNO.	FSR PWB-250 OR PRE-APPROVED EQUAL

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 TAG	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AV-WP3-W	WALL PLATE CONNECTION FOR HDMI, VGA AND 1/8" STEREO MINI AUDIO SOURCES, INSTALL TWO GANG LOW VOLTAGE BACKLESS BOX AND PROVIDE ONE 2" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING AND TERMINATE WITH A NYLON BUSHING. INSTALL AT 18" OC AFF UNLESS OTHERWISE NOTED ON PLANS.	TBD
AV-WP4-W	SINGLE GANG WALL PLATE CONNECTION WITH TWO XLR JACKS FOR WHIRLWIND PRESS POWER 2 PORTABLE PRESS BOX, BLACK FACEPLATE COLOR.	TBD
SC-CPW-1	FIRE RATED PATHWAY, 2"W X 4-5/8" H X12" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT.	EZ-PATH 33 OR PRE-APPROVED EQUAL
SC-CT-1	CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" 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 FT4x12x10 MONO-SYSTEMS CABLOFIL
SC-ER-1	EQUIPMENT RACK. 84"H X 20.25"W X 15"D TWO-POST CONFIGURATION. PROVIDE COMPLETE WITH TWO (2) TWO-SIDED VERTICAL WIRE MANAGERS PER RACK, EACH WITH MINIMUM 6" X 6" CAPACITY FRONT AND REAR, AND WITH LADDER RACK CONNECTION HARDWARE ACCESSORIES AND RADIUS DROP LADDER RACK.	HUBBELL HP284RR-20 OR PRE-APPROVED EQUAL
SC-FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, COMBINATION SHELF, 24 FIBER CAPACITY, SLIDE OUT RAILS TO FACILITATE FRONT ACCESS, JUMPER TROUGHS IN CONNECTOR PANELS TO REDUCE MOUNTING SPACE, PROVIDE WITH CLAMP AND GROUNDING KIT, COUPLING PANELS, [ST][SC]MT-RJ] CONNECTORS, COUPLINGS AND JUMPERS. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL FCR SERIES COMMSCOPE PANDUIT OR PRE-APPROVED EQUAL
SC-FDC-W	FIBER DISTRIBUTION CABINET, WALL MOUNT.	*
SC-GND-1	WALL-MOUNT GROUND BAR. MINIMUM 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. PROVIDE UNIT CONFIGURED WITH SIXTEEN (16) SETS OF 5/16" HOLES SPACED 5/8" ON CENTER TO ACCOMMODATE "A" SPACED TWO-HOLE COMPRESSION LUGS AND THREE (3) SETS OF 7/16" HOLES SPACED 1" ON CENTER TO ACCOMMODATE "C" SPACED TWO-HOLE COMPRESSION LUGS. ANSI/EIA/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO 2/T400 FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 40153-012 ERICO HARGER OR PRE-APPROVED EQUAL
SC-GND-2	RACK MOUNT GROUND BAR. MINIMUM 3/16" D X 3/4" H X 19" W COPPER, CONFIGURED WITH MINIMUM EIGHT (8) #6-32 TAPPED HOLES AND MINIMUM FOUR (4) 5/16" UNTAPPED HOLES. UL LISTED AND ANSI/EIA/TIA-607 AND BICSI COMPLIANT. REQUIRES ONE (1) 1.75" RACK MOUNTING SPACE.	CHATSWORTH PRODUCTS 10610-019 ERICO HARGER OR PRE-APPROVED EQUAL
SC-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 ACIEVE DEPTH SHOWN ON PLANS. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. "COMMUNICATIONS" LOGO ON HANHOLE COVER. CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATIONS. REFER TO 5/T400 EXTERIOR HANDHOLE DETAIL FOR ADDITIONAL INFORMATION. SC-HH-1 = 24"WX24"L.	HUBBELL/QUAZITE PG2424BB24 PG2424HA00 CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH
SC-HWM-1	HORIZONTAL CABLE MANAGEMENT, FINGER DUCT STYLE, 3" X 3" CAPACITY FRONT, 2" X 5" CAPACITY REAR. REMOVABLE FRONT AND REAR COVERS. PASS THROUGH HOLES TO FACILITATE FRONT TO REAR CABLING. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL HC219CC3P COMMSCOPE PANDUIT OR PRE-APPROVED EQUAL
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT. 2 PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T600. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T600 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF JACKS. INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACK BOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING (MINIMUM 6" BEYOND BACK BOX).	FACEPLATE: HUBBELL IFP14EI CAT6 JACK: HUBBELL HXJ6EI BLANK: HUBBELL SFB10 OR PRE-APPROVED EQUAL
SC-IO-CWAP	WIRELESS ACCESS POINT EQUIPMENT OUTLET, CEILING MOUNT. 2 PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T600. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T600 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF JACKS. INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACK BOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING (MINIMUM 6" BEYOND BACK BOX). PROVIDE (2) TWO CATEGORY 6A CABLES AND JACKS PER WAP.	FACEPLATE: HUBBELL IFP12EI SERIES OR PRE-APPROVED EQUAL
SC-IO-F	INFORMATION OUTLET, FLOOR MOUNT. 2 OR 4-PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T600. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T600 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF JACKS, ADDITIONAL INFORMATION AND REQUIREMENTS. POWER/DATA RECESSED FLOOR BOX WITH HINGED COVER AND DIVIDED COMPARTMENT FOR AC POWER. BOX IS BY ELECTRICAL CONTRACTOR. FIELD COORDINATE EXACT LOCATIONS FOR CABLE LENGTHS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION ABOUT BOXES AND CONDUITS.	FACEPLATE: HUBBELL IFP14EI CAT6 JACK: HUBBELL HXJ6EI BLANK: HUBBELL SFB10 OR PRE-APPROVED EQUAL
SC-IO-W	INFORMATION OUTLET, WALL MOUNT. 2 OR 4-PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T600. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T600 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF JACKS. INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACK BOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING. REFER TO 1/T400 FOR TECHNOLOGY ROUGH-IN MOUNTING DETAIL. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED FACEPLATE PORTS.	FACEPLATE: HUBBELL IFP14EI CAT6 JACK: HUBBELL HXJ6EI BLANK: HUBBELL SFB10 OR PRE-APPROVED EQUAL
SC-LR-1	LADDER RACK. 18" WIDE TUBULAR STEEL CONSTRUCTION, RUST RESISTANT BLACK ENAMEL FINISH, UL LISTED. PROVIDE COMPLETE WITH ALL NECESSARY ADAPTERS, SUPPORT HARDWARE, AND FITTINGS, TO INCLUDE RADIUS DROPS. REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED.	CHATSWORTH PRODUCTS 11275-718 B-LINE HOFFMAN
SC-MPP-1	MODULAR PATCH PANEL. FORTY EIGHT (48) MODULAR CAT 6 RJ-45 SNAP-IN JACKS. WELDED STEEL CONSTRUCTION, BLACK POWDER COAT FINISH, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. REQUIRES (2) 1.75" MOUNTING SPACES. PROVIDE FULLY POPULATED WITH JACKS.	HUBBELL CAT 6: P6E48U OR PRE-APPROVED EQUAL
SC-MPP-2	MODULAR PATCH PANEL. FORTY EIGHT (48) MODULAR CAT 6A RJ-45 SNAP-IN JACKS. WELDED STEEL CONSTRUCTION, BLACK POWDER COAT FINISH, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. REQUIRES (2) 1.75" MOUNTING SPACES. PROVIDE FULLY POPULATED WITH JACKS.	HUBBELL CAT 6A: P6A48U OR PRE-APPROVED EQUAL
SC-TTB-1	TELECOMMUNICATIONS TERMINAL BOARD. 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT ORIENTED VERTICALLY WITH TOP OF PLYWOOD AT 8'6" A.F.F.. RATING STAMP MUST REMAIN VISIBLE.	*

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Key Plan

Revision Date

OPN Project No.
17609000

Sheet Issue Date
100% CONSTRUCTION DOCUMENTS 06/01/2018

Sheet Name
GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

Sheet Number
T602

DIVISION OF INDUSTRY SERVICES
PO BOX 7302
MADISON WI 53705
Contact Through Relay
http://dsps.wi.gov/programs/industry-services
www.wisconsin.gov
Scott Walker, Governor
Laura Gutiérrez, Secretary

September 17, 2018

CUST ID No. 1266270

ATTN: Plumbing Inspector

PAUL HANSEN
IMEG
1800 DEMING WAY STE 200
MIDDLETON WI 53562

MUNICIPAL CLERK
CITY OF MADISON
210 M L K JR BLVD RM 103
MADISON WI 53703-3345

CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 09/17/2020

Identification Numbers
Transaction ID No. 3150918 **Site ID No. 845201**
Please refer to both identification numbers, above, in all correspondence with the agency.

SITE:
Royster Crossings
516 Cottage Grove Rd
City of Madison
Dane County

FOR:
Facility: 779751 ROYSTER CROSSINGS - PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE RD

Tenant Name or Addn/Alt Description: Pinney Library Plan Type: New; Sanitary Diameter DFU: 105; 41 Interior Fixture(s); Water Diameter GPM: 70

Tenant Name or Addn/Alt Description: Pinney Library
Object Type: Interior Sanitary Drain & Vent System Regulated Object ID No.: 1794732

Tenant Name or Addn/Alt Description: Pinney Library
Object Type: Interior Water Distribution System Regulated Object ID No.: 1794733

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements.

No person may engage in or work at plumbing in the state unless licensed to do so by the Department per s.145.06, stats.

The following conditions shall be met during construction or installation and prior to occupancy or use:

KEY ITEM(S)

- **SPS 382.20(8)** The plumbing system shall be installed in accordance with approved plans.
- **SPS 382.41(3)(a)1.** Potable water supply systems shall be protected against contamination due to cross connections or backflow conditions by one of the methods or devices specified in Table 382.41-1 or 382.41-2.
- **SPS 382.60(2).** Pipe hangers shall be installed at intervals not greater than those specified in Table 382.60.
- **SPS 382.20(6).** Evidence of approval. The plumber responsible for the installation of the plumbing shall keep at the construction site at least one set of plans bearing the department's or the agent municipality's stamp of approval and at least one copy of specifications. The plans and specifications shall be open to inspection by an authorized representative of the department

- **SPS 382.20(8)** REVISIONS. All changes or modifications, which involve the provisions of chs. SPS 382 to 384, made to plumbing plans and specifications, which have been granted approval under sub. (1), shall be submitted to the department or agent municipality for examination. All changes and modifications shall be approved in writing by the department or agent municipality prior to installation of the plumbing

A full-size copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. If plan index sheets were submitted in lieu of additional full plan sets, a copy of this approval letter and index sheet shall be attached to plans that correspond with the copy on file with the Department. If these plans were submitted in an electronic form, the designer is responsible to download, print, and bind the full-size set of plans along with our approval letter. A department electronic stamp and signature shall be on the plans which are used at the job site for construction. All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation.

In granting this approval the Division of Industry Services reserves the right to require changes or additions should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,

Bo Hachtel

Bo Hachtel
Plumbing Plan Reviewer, Division of Industry Services
(608)266-2128, Monday-Friday
bo.hachtel@wisconsin.gov

Fee Required $ 300.00

This Amount Will Be Invoiced. When You Receive That Invoice, Please Include a Copy With Your Payment Submittal.
WiSMART code: 7657

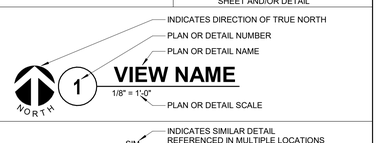
cc: Ryan M Boebel, Plumbing Consultant, (608) 412-3998, Mon - Fri, 7:00 A.M. - 3:30 P.M.
Bryan Cooper, City of Madison Dept of Engineering Public Works

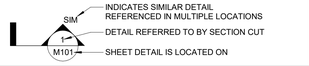
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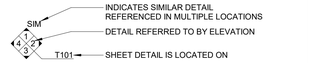
VIEW KEY

NAME — LEVEL NAME; 10' - 0" — 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)

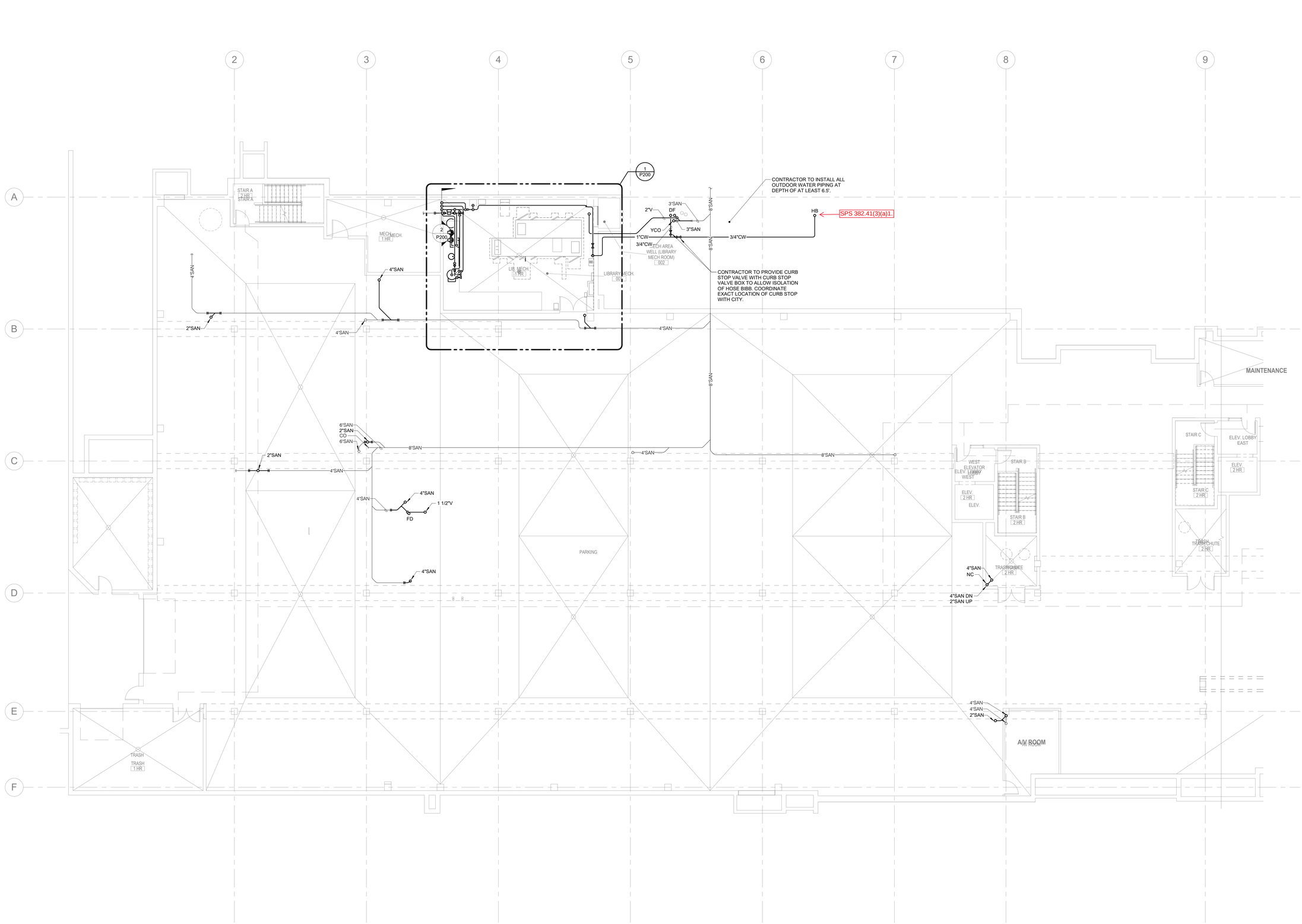
FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	— — —

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1 LEVEL 0 FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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Key Plan

Revision	Date

OPN Project No.
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Sheet Issue Date

100% CONSTRUCTION DOCUMENTS **06/01/2018**

Sheet Name

LEVEL 0 FLOOR PLAN - PLUMBING

Sheet Number

P100

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GENERAL NOTES :

1. ALL PIPING SHOWN ON THIS FLOOR PLAN IS ROUTED IN THE RAISED FLOOR PLENUM. SUPPORT PIPING FROM FLOOR SLAB AND ROUTE WITHIN CLEAR SPACE OF RAISED FLOOR PLENUM. COORDINATE CLEARANCES WITH RAISED FLOOR PLENUM MANUFACTURER.
2. PROVIDE CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER WALL CLEANOUT.

FLOOR DRAIN INSTALLED IN CONCRETE FLOOR BELOW RAISED FLOOR PLENUM. DRAIN SERVES ANY CATASTROPIC LEAKS WITHIN THE RAISED FLOOR PLENUM. LOCATE OUTSIDE BATHROOM AREA SO DRAIN IS ACCESSIBLE.

LEVEL 1 UNDER RAISED FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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17609000

Sheet Issue Date
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Sheet Name
LEVEL 1 UNDER RAISED FLOOR PLAN – PLUMBING

Sheet Number
P101

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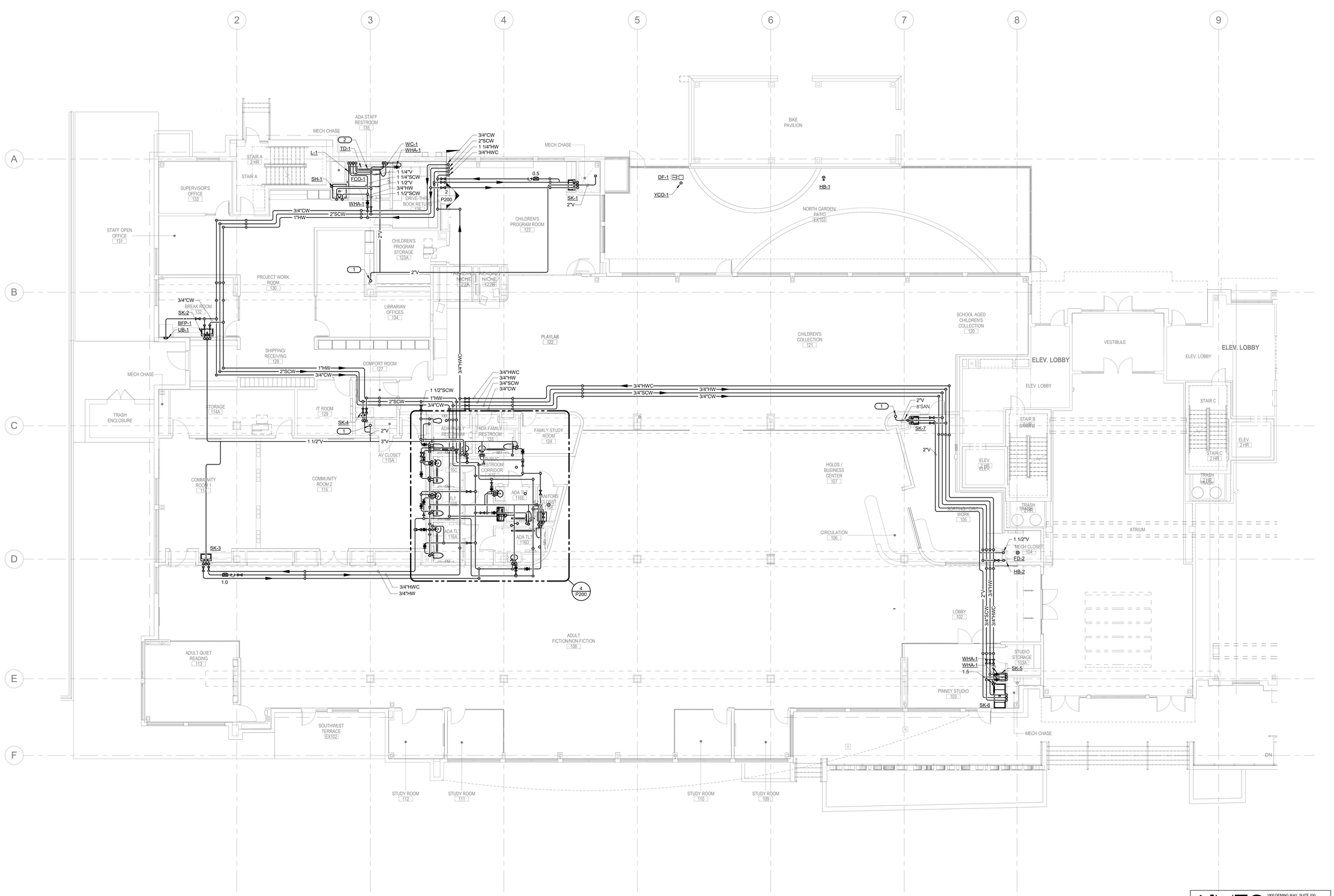
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KEYNOTES: (#)

1. CONNECT INTO EXISTING 4" VENT STACK. P.C. TO MAKE NEW CONNECTION INTO EXISTING VENT STACK.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.



1 LEVEL 1 FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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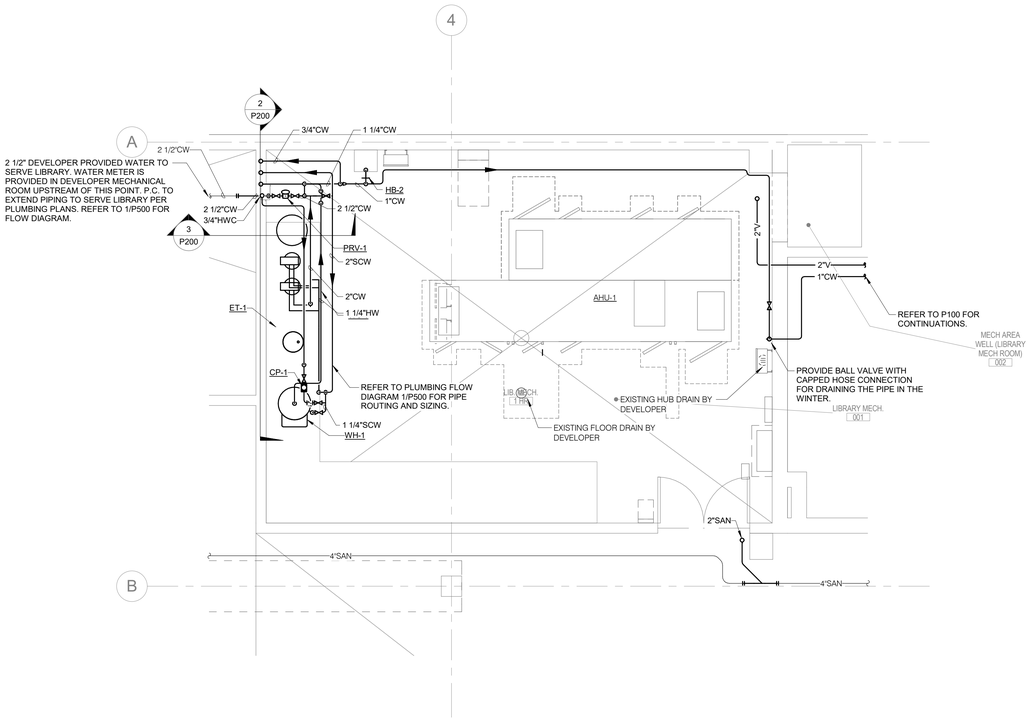
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Sheet Name
LEVEL 1 FLOOR PLAN - PLUMBING

Sheet Number
P102

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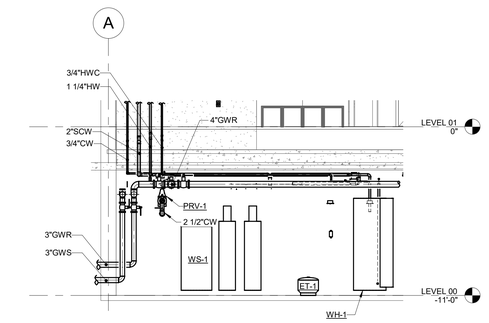


1 ENLARGED PLAN - LIB. MECH. - PLUMBING

1/4" = 1'-0"

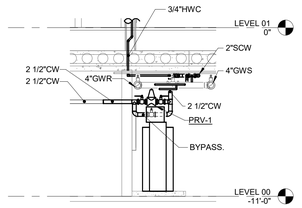
KEYNOTES: (#)

1. P.C. TO PROVIDE STRUCTURAL STAND UNDER ACCESS FLOOR TO SUPPORT FLOOR MOUNTED WATER CLOSET. STRUCTURAL STAND SHALL BE BOLTED TO STRUCTURAL SLAB. BOLT WATER CLOSET TO STRUCTURAL STAND. COORDINATE INSTALLATION WITH RAISED FLOOR MANUFACTURER.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.



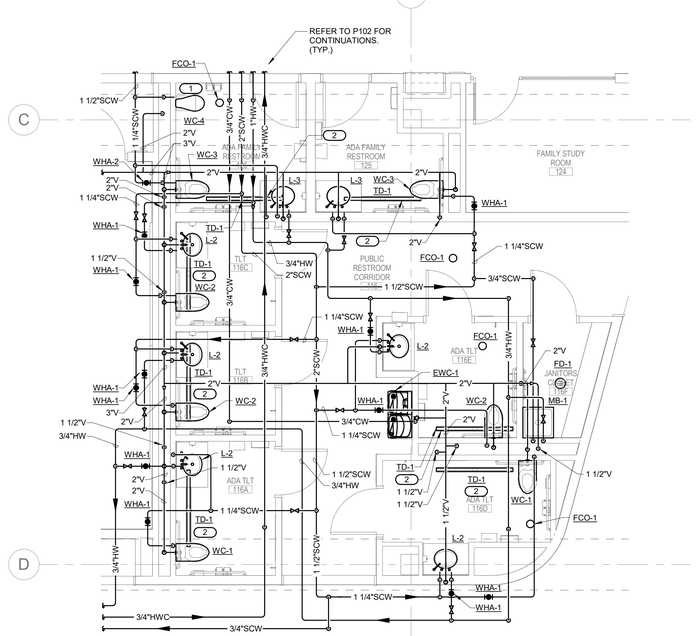
2 SECTION FOR MECH. ROOM PLUMBING

1/4" = 1'-0"



3 SECTION FOR MECH. ROOM PLUMBING

1/4" = 1'-0"



4 ENLARGED PLAN - BATHROOM GROUPS - PLUMBING

1/4" = 1'-0"

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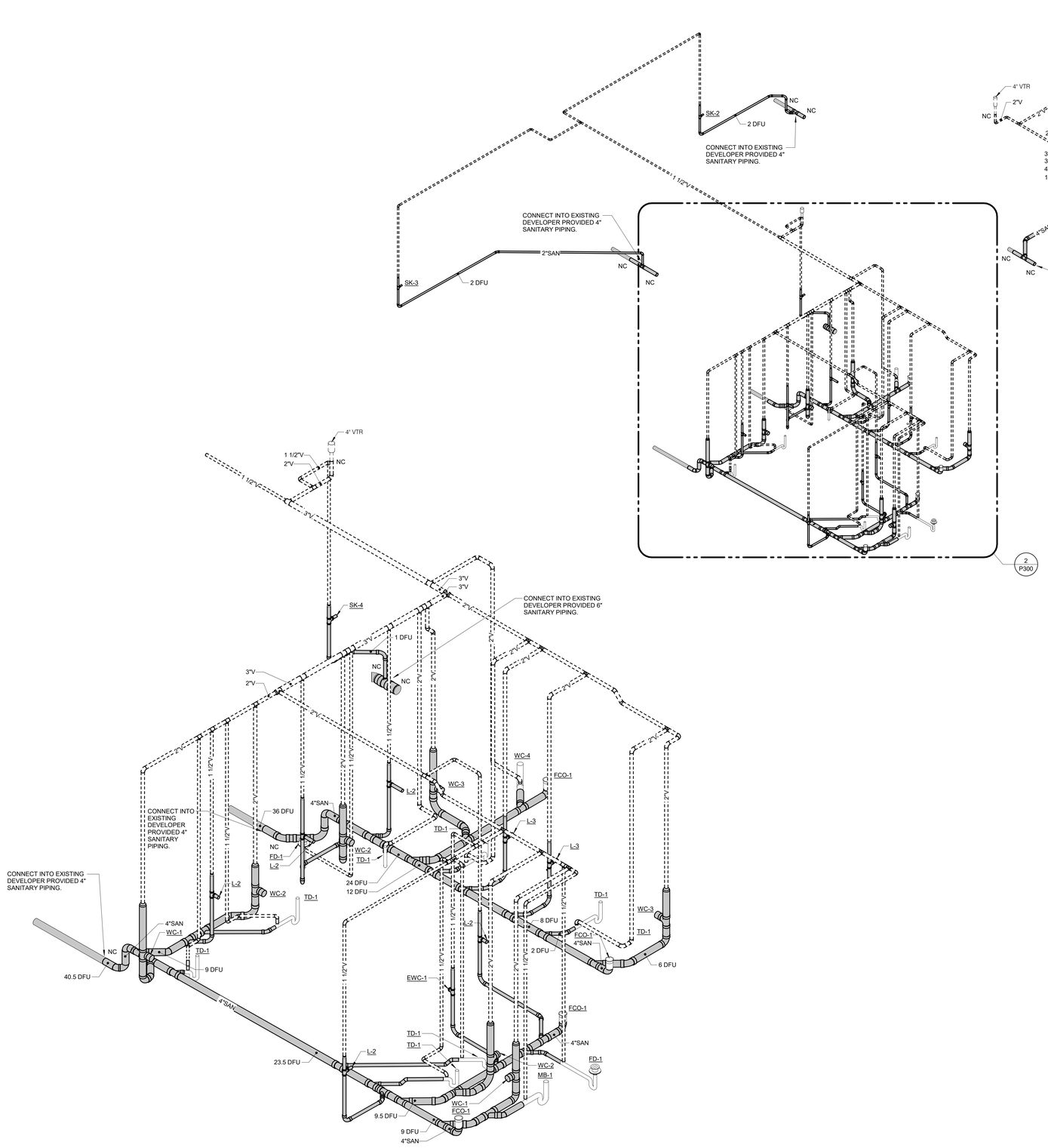
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ENLARGED PLANS AND SECTIONS - PLUMBING

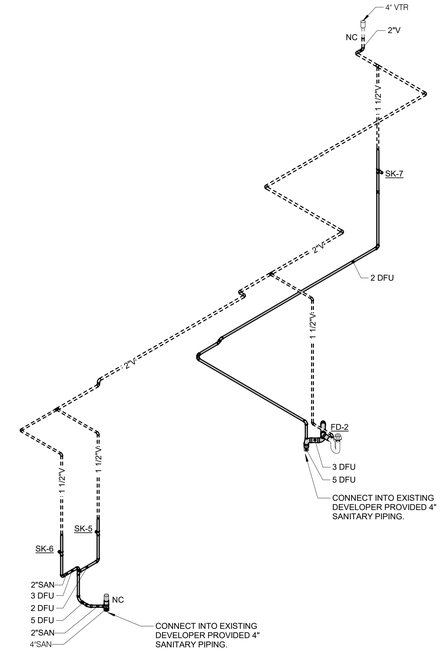
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P200

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2 ENIARGED PLAN FOR SAN-VENT RISER DIAGRAMS - PLUMBING

NO SCALE



1 SAN-VENT RISER DIAGRAMS - PLUMBING

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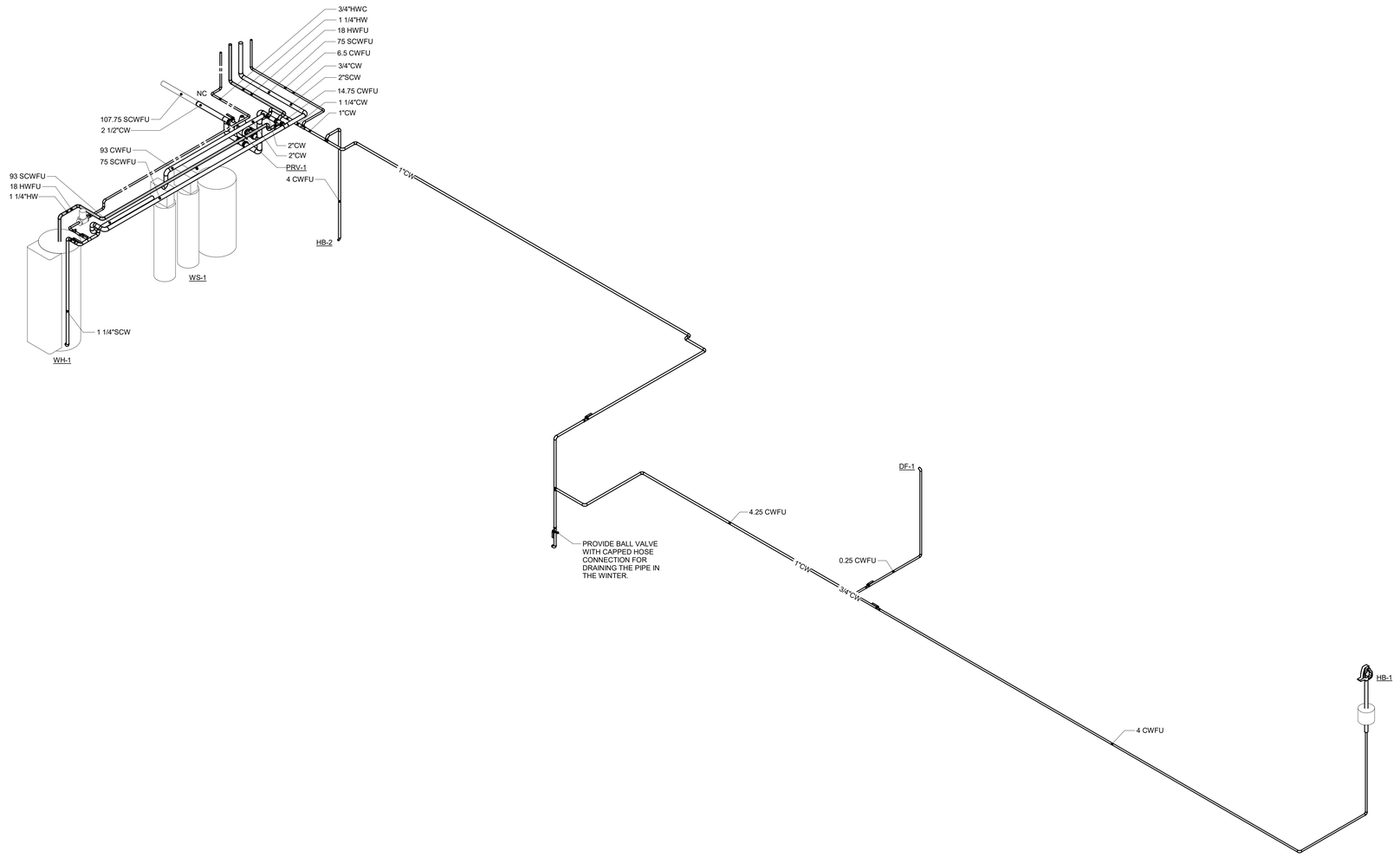
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Sheet Name
RISER DIAGRAMS - PLUMBING

Sheet Number
P300

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1 DOMESTIC RISER DIAGRAMS - LEVEL 0 - PLUMBING

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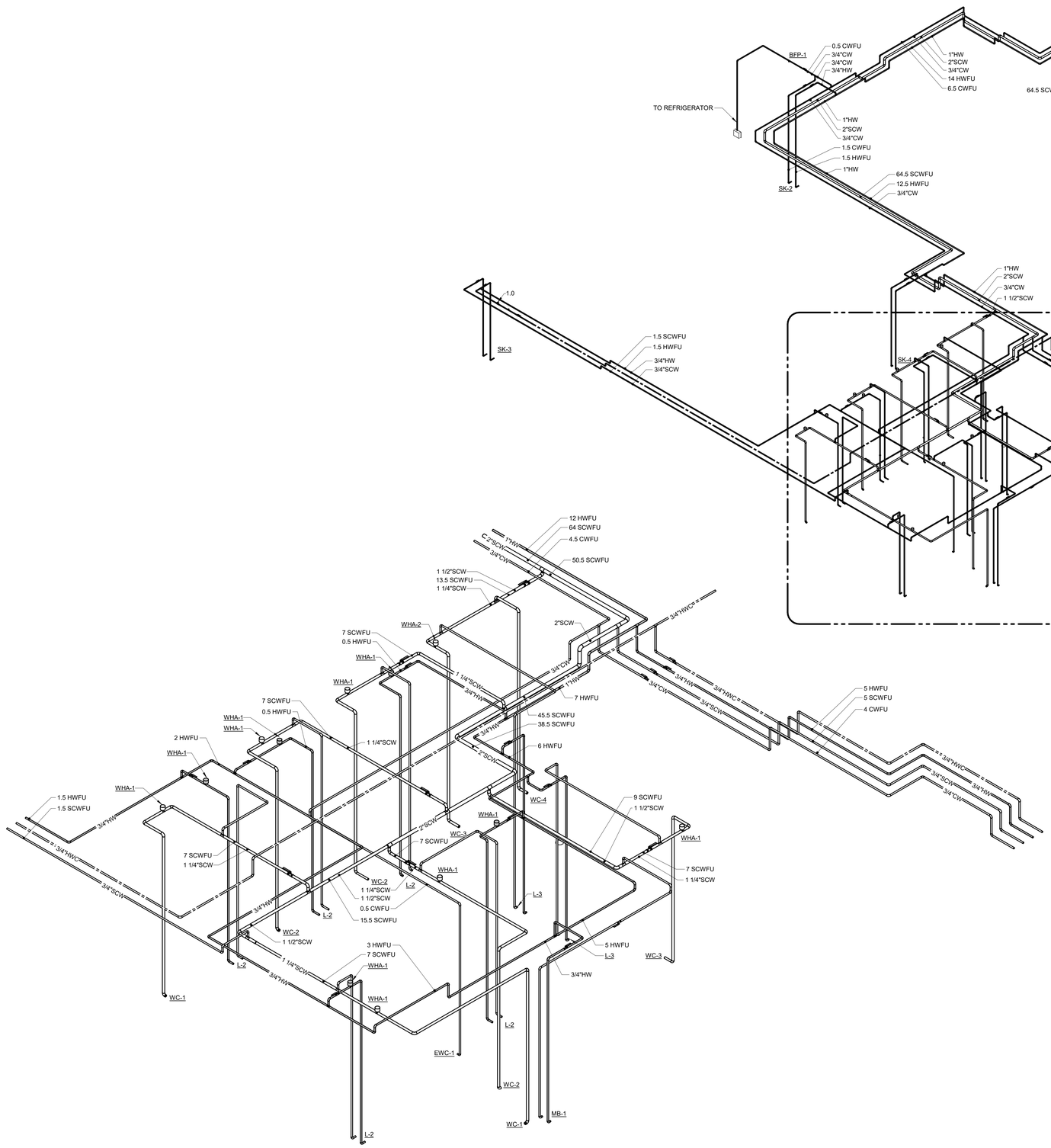
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RISER DIAGRAMS - PLUMBING

Sheet Number
P301

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2 ENLARGED PLAN FOR DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING

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1 DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING

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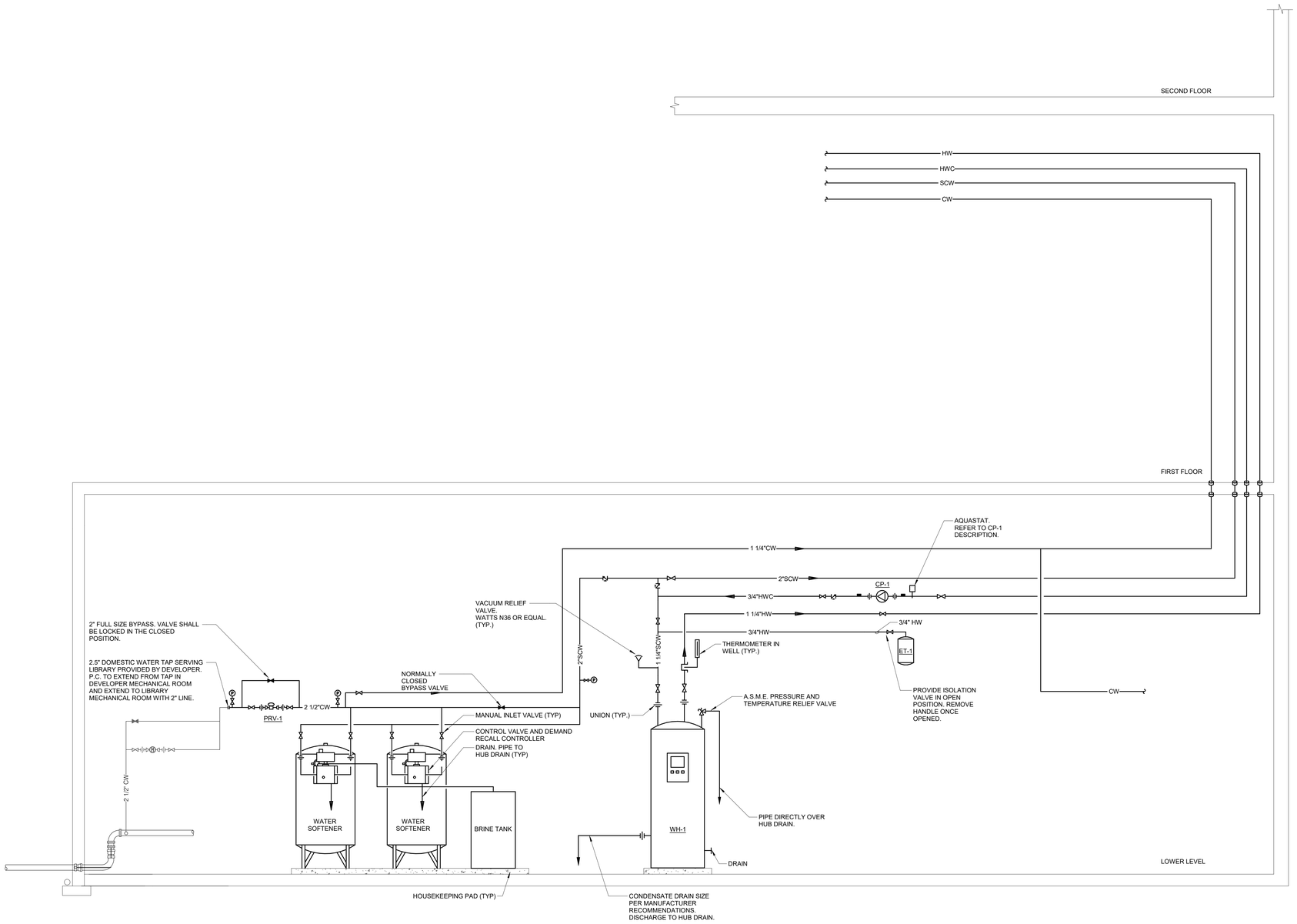
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RISER DIAGRAMS - PLUMBING

Sheet Number
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1 PLUMBING FLOW DIAGRAM

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Sheet Name
PLUMBING DIAGRAMS

Sheet Number
P500

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PLUMBING FIXTURE SCHEDULE

TAG NAME	DESCRIPTION	MANF. & MODEL
BFP-1	BACK FLOW PREVENTER - DUAL CHECK, ATMOSPHERIC VENT, BRASS BODY,STAINLESS STEEL INTERNAL PARTS, INTEGRAL STRAINER, TIGHT SEATIN, RUBBER CHECK VALVE ASSEMBLIES, 3/4" SIZE, RATED FOR 175 PSI AT 33°F TO 250°F, APPROVED BY ASSE 1012.	WATTS (SERIES 9D)
CP-1	CIRCULATING PUMP - VARIABLE SPEED, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL AND THERMAL OVERLOAD PROTECTION, ONE SET OF DRY CONTACTS FOR STATUS OUTPUT TO BMS, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, MANUFACTURER PROVIDED PUMP BODY INSULATION KIT, UL LISTED. 3 GPM @ 25 FEET OF HEAD. MOTOR SHALL BE 1/2 HP. AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS. ELECTRICAL REQUIREMENTS - 115V, 1 PHASE (HARD-WIRE)	PUMP - B&G (ECOCIRC XL SERIES), GRUNDFOS (MAGNA SERIES), WILO (STRATOS Z SERIES) AQUASTAT - HONEYWELL, WHITE-RODGERS, JOHNSON CONTROLS, SAME AS PUMP MANUFACTURER
DF-1	DRINKING FOUNTAIN - OUTDOOR, PEDESTAL, NON FILTERED, NON-REFRIGERATED FREEZE RESISTANT. MARINE-GRADE 316 STAINLESS STEEL CONSTRUCTION, HEAVY DUTY VANDAL RESISTANT, SEALED FREEZE RESISTANT, VANDAL RESISTANT BUBBLER, MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. LEED FREE, ADA COMPLIANT, CONFORMS TO LATEST ANSI 61 & 372 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.	ELKAY (LK4410FRK)
ET-1	EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874. MINIMUM TANK VOLUME TO BE 4.4 GALLONS MINIMUM ACCEPTANCE VOLUME TO BE 3.2 GALLONS TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 125 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 75 PSIG.	AMTROL (THERM-X-TROL), B&G (PT), ELBI (DT), FLEXTRON (FLEXTROL), TACO (PAX SERIES), WATTS (DETA), WESSELS (TX)
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH. STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, GLASS FILLER, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - 115V-1 PHASE, CORD AND PLUG, 1/5 HP MOTOR	ELKAY (LZST)
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER.	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. STABILIZER ASSEMBLY WHERE INSTALLED IN RAISED FLOOR SYSTEM. P.C. TO COORDINATION MOUNTING OF FLOOR DRAIN WITH RAISED FLOOR SYSTEM MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS BELOW RAISED FLOOR TO SECURE STABILIZER ASSEMBLY AS REQUIRED. TRAP SEAL - 2", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000) TRAP SEAL - SMITH (QUAD CLOSE)
FD-2	FLOOR DRAIN - CAST IRON BODY, HEAVY DUTY CAST/DUCTILE IRON TOP, 12" ROUND, 4" BOTTOM OUTLET, MEDIUM SUMP, FREE STANDING SEDIMENT BUCKET, FLASHING COLLAR, SURFACE MEMBRANE CLAMP, DEEP SEAL TRAP. STABILIZER ASSEMBLY WHERE INSTALLED IN RAISED FLOOR SYSTEM. P.C. TO COORDINATION MOUNTING OF FLOOR DRAIN WITH RAISED FLOOR SYSTEM MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS BELOW RAISED FLOOR TO SECURE STABILIZER ASSEMBLY AS REQUIRED. TRAP SEAL - 4", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN ZURN (Z-541), SMITH (2142), WADE (1210), WATTS (FD-340), MIFAB (F1340), SUN (FD1300) TRAP SEAL - SMITH (QUAD CLOSE)
HB-1	HOSE BIBB - FREEZELESS YARD HYDRANT, INTEGRAL VACUUM BREAKER, PULL DOWN DIVERTER SPOUT, AUTOMATIC DRAINING WITH SUB GRADE DRAINDOWN RESERVOIR, 3/4" MALE HOSE THREAD CONNECTION, 1"I.P.S. INLET, ONE PIECE PLUNGER, LOCKABLE HANDLE. BURY AT A DEPTH OF 6.5' TO ASSURE PLUNGER AND RESERVOIR ARE BELOW FROST LINE.	WOODFORD (S3), FREEZE FLOW (EXECUTIVE)
HB-2	HOSE BIBB - FOR INDOOR USE, 3/4" INLET, BRASS CONSTRUCTION, STANDARD FINISH, 3/4" MALE HOSE THREAD, QUARTER TURN VALVE HANDLE SCREW ON ASSE 1011 LISTED AND APPROVED VACCUM BREAKER. MOUNT AT 24" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON DRAWINGS.	HOSE BIBB - AMERICAN VALVE (M71QT)
L-1	LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER. ELECTRICAL REQUIREMENTS - 120 VAC INPUT MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 20 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	LAVATORY - AMERICAN STANDARD (0356.421), KOHLER (K-2007), SLOAN (SS-3103), TOTO (LT307), ZURN (Z5361) LAVATORY TRIM - T&S BRASS (5EF-2D-DS) INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME)
L-2	LAVATORY - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER. ELECTRICAL REQUIREMENTS - 120 VAC INPUT MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.	LAVATORY - KOHLER (K-2611) LAVATORY TRIM - T&S BRASS (5EF-2D-DS)
L-3	LAVATORY - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. LAVATORY TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.35 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP.	LAVATORY - KOHLER (K-2611) LAVATORY TRIM - CHICAGO FAUCET (2200-E2805ABCP) MIXING VALVE - WATTS (LFUSG-B), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), LEONARD (170-BP-LF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (7-210), WILKINS (ZW3870XLT)

PLUMBING FIXTURE SCHEDULE

TAG NAME	DESCRIPTION	MANF. & MODEL
MB-1	MOP BASIN - MOLDED STONE, WHITE WITH BLACK ACCENTS, 24"x24"x10". STAINLESS STEEL DRAIN WITH COMBINATION DOME STRAINER AND LINT BASKET, 3" OUTLET, VINYL BUMPER GUARD ON EXPOSED SIDES. TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH ASSE 1053 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP	MOP BASIN - FIAT (MSB), WILLIAMS (MTB), SWAN (MS), ZURN (Z-1996), MUSTEE (63M) TRIM - DELTA (28C2383), AMERICAN STANDARD (8344.012), CHICAGO FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN (Z841M1-XL) VACUUM BREAKER - WATTS (8A), OR APPROVED EQUAL
PRV-1	PRESSURE REDUCING VALVE - SELF-CONTAINED, LOW LEAD BRONZE BODY AND BRONZE BELL HOUSING, ACCESS COVER FOR PLUNGER AND A BOLT TO ADJUST THE DOWNSTREAM PRESSURE. BRONZE BELL HOUSING AND ACCESS CAP SHALL BE THREADED TO THE BODY AND SHALL NOT REQUIRE THE USE OF FERROUS SCREWS. THE ASSEMBLY SHALL BE OF BALANCED PISTON DESIGN ADN SHALL REDUCE PRESSURE IN BOTH FLOW AND NO-FLOW CONDITIONS. THE ASSEMBLY SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT HAVING TO REMOVE THE BODY FROM THE LINE. MAX INLET PRESSURE OF 300 PSI AND MAXIMUM WORKING WATER TEMPERATURE OF 140°F. MAXIMUM LEAD CONTENT OF 0.25% WEIGHTED AVERAGE LEAD CONTENT. ADJUSTABLE SPRING SETTING BETWEEN 10 PSI TO 125 PSI. CERTIFIED TO NSF/ANSI 372. ASSE LISTED TO 1003. 1.5" SIZE WITH FLOW RATE OF 70 GPM AND MAXIMUM ALLOWABLE FALLOFF OF 11 PSI. SET UNIT TO 79 PSI OUTLET PRESSURE.	ZURN WILKINS 500XL
SH-1	SHOWER BASE - ACCESSIBLE, ONE PIECE, PRECAST TERRAZZO, 36"x36" (NOMINAL), 2" DRAIN, STAINLESS STEEL REMOVABLE STRAINER. SHOWER VALVE - ACCESSIBLE, SINGLE HANDLE THERMOSTATIC/PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK-STOPS, ADJUSTABLE SAFETY LIMIT STOP, ASSE 1016-T/P LISTED. ACCESSORIES - ADJUSTABLE SPRAY HAND HELD SHOWER WITH 1.5 GPM FLOW AND 72" CHROME-PLATED METAL HOSE AND QUICK DISCONNECT, CHROME-PLATED BRASS SHOWERHEAD WITH SWIVEL BALL JOINT ADJUSTABLE SPRAY, CHROME-PLATED BRASS ARM AND FLANGE, CHROME-PLATED BRASS SWIVEL CONNECTOR, 36" CHROME-PLATED MOUNTING RAIL, CHROME-PLATED BRASS SUPPLY ELBOW, CHROME PLATED IN-LINE VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES , CHROME-PLATED BRASS DIVERTER.. INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM OF SHOWERHEAD AT 72" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE.	SHOWER - FIAT, CREATIVE INDUSTRIES, WILLIAMS, FLORESTONE, ACORN SHOWER VALVE - POWERS (E710), CHICAGO FAUCET (2500-VOCCP), LAWLER (7800)
SK-1	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - KOHLER (K-597), DELTA (9178-DST), AMERICAN STANDARD (4285.300), ELKAY (LK6000), MOEN (7594C), SYMMONS (S-2302-PD),
SK-2	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. GARBAGE DISPOSER - CONTINUOUS FEED, SINGLE DIRECTION, CORROSION PROTECTION SHIELD, SERVICE WRENCH, STAINLESS STEEL GRINDING ELEMENTS, MANUALLY RESET OVERLOAD PROTECTION, FULL 4 YEAR WARRANTY. ELECTRICAL REQUIREMENTS - 115V-1 PHASE, CORD AND PLUG HARD WIRED, 3/4 HP MOTOR, 15 AMPS. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - KOHLER (K-597), DELTA (9178-DST), AMERICAN STANDARD (4285.300), ELKAY (LK6000), MOEN (7594C), SYMMONS (S-2302-PD), IN-SINK-ERATOR (EVOLUTION SERIES), SINKMASTER (950), WASTE KING (3300)
SK-3	SINK - ACCESSIBLE, UNDERMOUNT WITH OVERFLOW, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, 30 1/2" (SIDE-TO-SIDE) x 18 1/2" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 5 3/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK SWING SPOUT, NOMINAL 8" REACH, AERATOR, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE. MAXIMUM FLOW TO BE 1.8 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK - ELKAY (ELUHAD/LKAD18), JUST (US-ADA/J-ADA-35-FS), FRANKE (UCS) SINK TRIM - CHICAGO FAUCET (786), AMERICAN STANDARD (7230.000), MOEN (8225), SPEAKMAN (SC-3000 SERIES), ZURN (Z831-XL)
SK-4	SINK - UNDER-COUNTER MOUNTED, 20-GAUGE STAINLESS STEEL, 16-3/4"x11-3/4" O.D OVAL BOWL, WITHOUT OVERFLOW. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP. MOUNT SINK WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	SINK - KOHLER (K-2611) SINK TRIM - CHICAGO FAUCET (2200-E2805ABCP) MIXING VALVE - WATTS (LFUSG-B), LAWLER (TMM-1070T), ACORN CONTROLS (ST70), APOLLO (34DLF), LEONARD (170-BP-LF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (7-210), WILKINS (ZW3870XLT)
SK-5	SINK - WALL MOUNTED, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL DIMENSIONS 16" WIDE BY 11 1/2" FRONT TO BACK BY 5 1/2" DEEP, 2 1/2" HIGH BACKSPLASH, 5/32" RAISED RIMS. 1 3/4" RADIUS VERTICAL AND HORIZONTAL COVED CORNERS, SOUND DAMPENING PAD. EXPOSED SURFACES ARE FINE BLENDED TO A UNIFORM SATIN LUSTROUS FINISH. COMPLIANT TO LATEST ADA STANDARD AND ANSI A117.1. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH-PULL LEVER HANDLE WITH SUPPLIES AT 4" CENTERS SINGLE HOLE, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.35 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS (LEED). FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET. CABINET - SURFACE MOUNTED 18 GAUGE STAINLESS STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP. MOUNT SINK WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATE

DIVISION OF INDUSTRY SERVICES
10541 N RANCH RD
HAYWARD WI 54843-6462
Contact Through Relay
http://dsps.wi.gov/programs/industry-services
www.wisconsin.gov

Scott Walker, Governor
Laura Gutiérrez, Secretary

July 23, 2018

CUST ID No. 1318340

ATTN: Buildings & Structures Inspector

WESLEY REYNOLDS
OPN ARCHITECTS
301 N BROOM ST STE 100
MADISON WI 53703

BUILDING INSPECTION
CITY OF MADISON
215 MARTIN LUTHER KING JR BLVD
MADISON WI 53710

APPROVAL OF PETITION FOR VARIANCE

Identification Numbers
Transaction ID No. 3101266 **Site ID No. 845201**
Please refer to both identification numbers, above, in all correspondence with the agency.

SITE:
Royster Crossings
516 Cottage Grove Rd
City of Madison
Dane County

FOR: Petition for Variance
IBC 2902.1.2

The submittal described above has been reviewed for equivalency to applicable Wisconsin Administrative Codes and compliance with Wisconsin Statutes. The submittal has been CONDITIONALLY APPROVED. The owner, as defined in section 101.01(10), Wisconsin Statutes, is responsible for compliance with all conditions of this petition approval and other applicable code requirements. Plan submittal to and approval by the department or its agent may be necessary prior to construction undertaken per this petition. This petition approval may be affected if applicable codes are revised prior to plan submittal for any necessary construction work.

The code section petitioned requires toilet facilities be divided between male and female genders.

The variance requested is to allow the use of non-gender-designated single-user toilet rooms to meet the toilet fixture requirements.

The intent of the code section petitioned is to protect privacy of toilet users.

The petitioner submitted the SB-9890 application form including 9 additional pages of supporting documents and plans.

Reviewer's Comments:

1. The local fire department and municipal building inspection department recommend approval based on the following conditions: No comments included.
2. Gender neutral single-user toilet rooms are proposed in sufficient quantity to satisfy the total number of toilet fixtures required based on occupant load.
3. Submitter requests the implementation of the text taken from section 2902.1.2 in the 2018 IBC with allows unisex toilet rooms to count toward the required toilet fixtures, which reads as follows: "The plumbing fixtures located in single-user toilet facilities and bathing rooms, including family or assisted-use toilet and bathing rooms that are required by Section 1109.2, shall contribute toward the total number of required plumbing fixtures for a building or tenant space. Single-user toilet facilities and bathing rooms, and family or assisted-use toilet rooms and bathing rooms shall be identified for use by either sex."

Departmental Action: **CONDITIONAL APPROVAL**

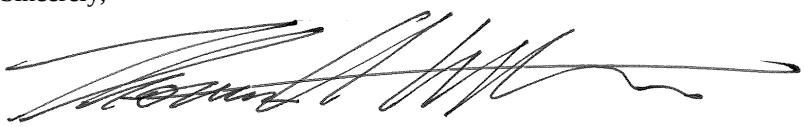
Reviewer's Conditions of Approval:

- All of the petitioner's statements of fact or intent included on the variance application form, any other documents submitted to the Department, as well as any other conditions of approval listed below, shall be carried out. Any recommended conditions of approval by the fire department and/or municipal building inspection department listed above shall also be carried out unless otherwise stated below. This variance is specific to the subject code section(s) petitioned and the building or object as it will exist following completion of the current construction project and shall not be used for any additional or future modifications, additions, or alterations to the subject building or object.
- Gender neutral single-user toilet rooms shall be provided in sufficient quantity to satisfy the total number of toilet fixtures required based on occupant load and shall be designated for use by either sex.
- ADA compliant toilet facilities shall be provided in quantities and locations as required by IBC 1109.2

This decision will become final unless the department within 30 days from the date of this letter receives a written request for a hearing. A request for hearing should be sent to the address shown on this letterhead. A copy of this letter must be included with the request for a hearing. The request for hearing should state the reasons for objecting to the department's decision, because a request for hearing may be denied if it does not present a significant question in fact, law or policy.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,



Thomas A Westlund
Architect / Bldg Plan Reviewer , Division of Industry Services
(715)634-8964 , Mon-Fri, 7:00 a.m. - 3:30 p.m.
thomas.westlund@wi.gov

Fee Required $ 550.00

This Amount Will Be Invoiced. When You Receive That Invoice, Please Include a Copy With Your Payment Submittal.
WiSMART code: 7648

Mgmt. Prec. Review by: MT

cc: Steve Gothard, State Building Inspector, (608) 235-0568, Monday 7:45 A.M. - 4:30 P.M.
City of Madison