

**Angus
Young**
Balance in Creativity

*Architecture
Engineering
Interior Design*

555 South River Street, Jonesville, WI 53548-4783
Ph: 608.756.2326 Fx: 608.756.0464
www.angusyoung.com



PROJECT ADDRESS

5702 FEMRITE DRIVE
MADISON, WI 53718

BUILDING CODE

WISCONSIN ENROLLED 2009 IBC

USE AND OCCUPANCY CLASSIFICATION

EXISTING OFFICES = NO CHANGE IN USE/NO WORK
TRAINING CENTER = GROUP B WITH SEPARATED A-3
EXISTING OFFICE AND TRAINING CENTER ARE SEPARATED
BY AN EXISTING 4 HOUR FIRE WALL

GENERAL BUILDING HEIGHT AND AREA

EXISTING OFFICE
EXISTING OFFICE AREA = 4,000 SF x 2 STORIES = NO WORK
EXISTING OFFICE BUILDING HEIGHT = 2 STORIES / 23.33' = NO WORK
TRAINING CENTER
MAXIMUM BUILDING AREA ALLOWED = 23,000 SF
AUTOMATIC SPRINKLER SYSTEM INCREASE = 300% = 69,000 SF
TOTAL MAXIMUM AREA ALLOWED = 92,000 SF
TOTAL TRAINING CENTER RENOVATION AREA = 14,640 SF
MAXIMUM STORIES ALLOWED = 4 STORIES
MAXIMUM HEIGHT ALLOWED = 55 FEET
EXISTING TRAINING CENTER HEIGHT = 1 STORY / 20.33'

TYPE OF CONSTRUCTION

TRAINING CENTER - TYPE IIB

AUTOMATIC SPRINKLER SYSTEM

TRAINING CENTER FULLY SPRINKLERED IN ACCORDANCE
WITH 903.3.1.1

GENERAL

G001	COVER SHEET
G002	EMERGENCY EGRESS AND EMERGENCY LIGHTING PLAN

ARCHITECTURAL

A100	OVERALL EXISTING FLOOR PLAN & DEMOLITION PLAN
A101	FIRST FLOOR PLAN & WALL PARTITION TYPES
A102	MEZZANINE LEVEL FLOOR PLAN, SCHEDULES & DOOR DETAILS
A103	ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS & DETAILS
A104	ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS & DETAILS
A105	ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS & DETAILS
A201	REFLECTED CEILING PLAN
A701	BUILDING SECTIONS, WALL SECTIONS & DETAILS
A801	FLOOR FINISH PLAN

STRUCTURAL

S101	FOUNDATION AND SLAB PLAN
S201	FRAMING PLAN
S301	STRUCTURAL NOTES
S801	STRUCTURAL DETAILS

PLUMBING

P001	FIRST FLOOR DEMOLITION PLUMBING PLAN
P100	UNDER FLOOR PLUMBING PLAN
P101	FIRST FLOOR PLUMBING PLAN
P102	ENLARGED FIRST FLOOR PLUMBING PLANS
P301	PLUMBING ISOMETRICS

MECHANICAL

M001	FIRST FLOOR DEMOLITION HVAC PLAN
M101	FIRST FLOOR HVAC PLAN
M201	HVAC FLOOR PLAN AND DETAILS

ELECTRICAL

E001	ELECTRICAL DEMOLITION FIRST FLOOR PLAN
E101	FIRST FLOOR POWER AND SYSTEMS PLAN
E201	FIRST FLOOR LIGHTING PLAN
E401	ELECTRICAL SCHEDULES, DETAILS, AND SYMBOL LEGEND

PROJECT NO. 46453	DRAWN BY A/HH
REVIEWED BY JCT	APPROVED BY JLH
ISSUANCES	REVISIONS
OWNER REVIEW 6/20/2012	
DOC REVIEW 7/19/2012	
OUT FOR BID 7/11/2012	
7/12/2012	11:54:05 PM
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G001

24	20	16	12	08	04
23	19	15	11	07	03
22	18	14	10	06	02
21	17	13	09	05	01

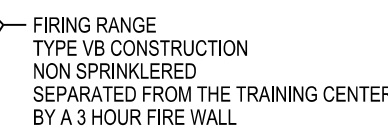
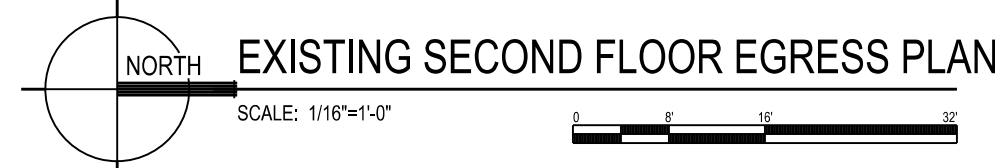
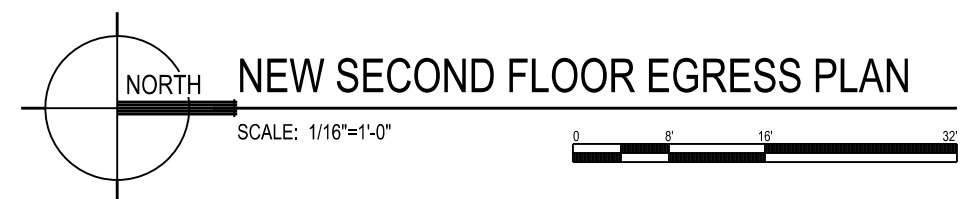
DETAILS IN THIS SET ARE PLACED ON THE SHEETS AND NUMBERED WITH RESPECT TO THE GRID ABOVE. CONSEQUENTLY, DETAILS ON A GIVEN SHEET MAY OR MAY NOT BE NUMBERED CONSECUTIVELY.

TITLE BLOCK

REGISTRATION STAMP AND SIGNATURE

SCALE: 1/8"=1'-0"
PLOTTED BY: AdamH

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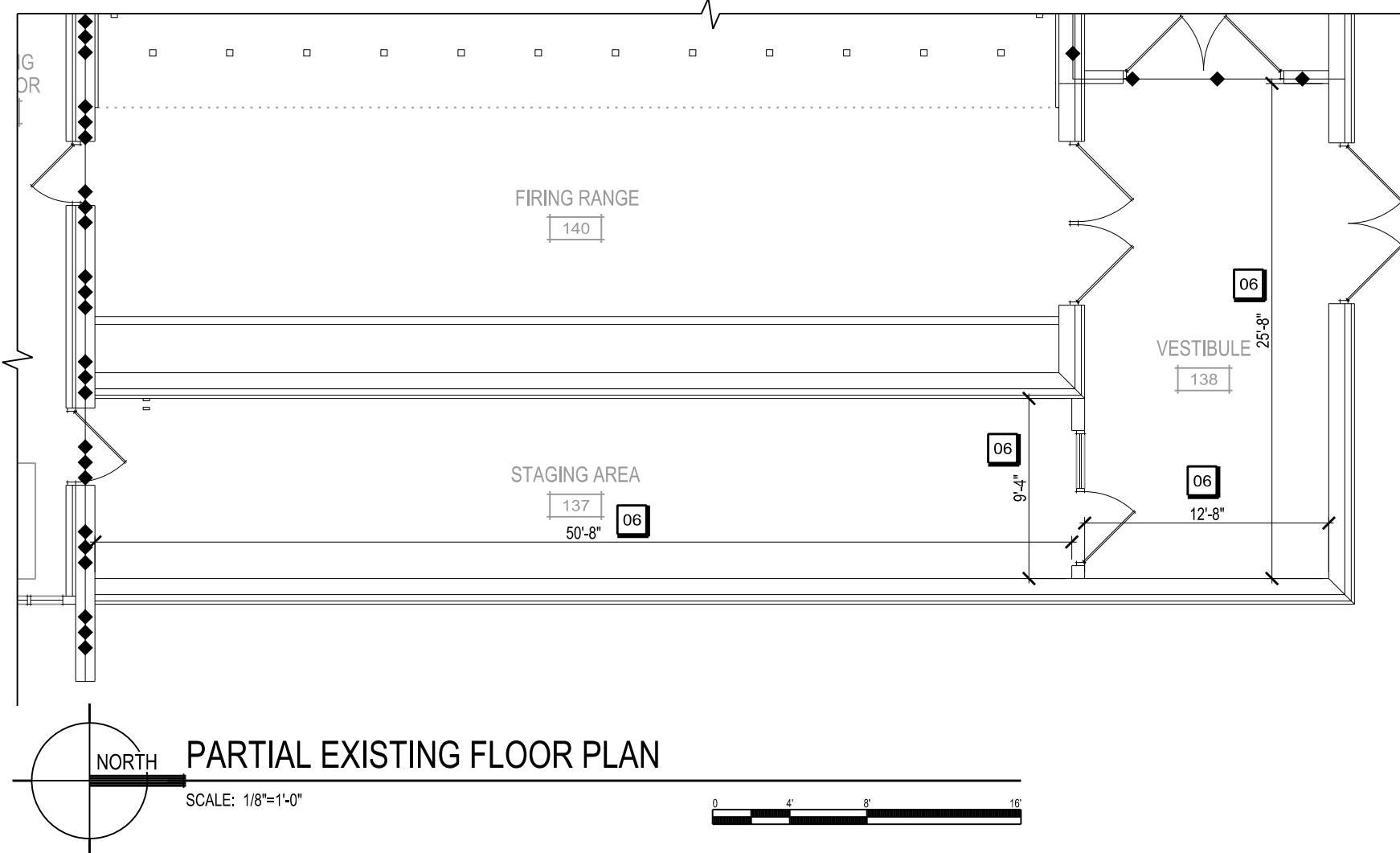
Angus Young
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Interior Design
555 South River Street Janesville, WI 53546-4783
Ph: 608.756.2326 Ex: 608.756.0464



PROJECT #53W1393, CONTRACT #6457

G002

ORIGINAL SIZE = 24" x 36"
X:\46453\cad\46453.dcn



SCALE: 1/8"=1'-0"

SCALE: 1/8"=1'-0"

- 01 SAW CUT EXISTING CONCRETE SLAB FOR NEW PLUMBING AND ELECTRICAL. GENERAL CONTRACTOR SHALL SAW CUT, REMOVE, AND PATCH CONCRETE. ALSO COORDINATE WITH PLUMBING AND ELECTRICAL DRAWINGS.
- 02 REMOVE METAL PANEL AND BOTTOM CHANNEL FOR NEW CORRIDOR OPENING. WALL GIRT TO REMAIN.
- 03 REMOVE EXISTING HOLLOW METAL DOOR AND FRAME. PREPARE EXISTING OPENING AS NECESSARY FOR NEW HOLLOW METAL DOOR AND FRAME.
- 04 EXISTING FIRE SPRINKLER LINE AND ECONOMIZER HOOD. RE-ROUTE FIRE SPRINKLER LINE AROUND SOFTWOOD CEILING HOOD. FIRE SPRINKLER CONTRACTOR SHALL DETERMINE NEW PIPING LAYOUT AND SPRINKLER HEAD QUANTITY AND LOCATION. INSULATE ALL PIPING AROUND THE ECONOMIZER HOOD AND A MINIMUM OF 10' BACK IN BOTH DIRECTIONS.
- 05 REMOVE GYPSUM WALLBOARD ON THIS FACE FOR NEW WALL CONSTRUCTION.
- 06 FURNISH AND INSTALL NEW VINYL WALL BASE AT EXISTING WALL
- 07 CUT AND REMOVE PARTIAL METAL STUD AND GYPSUM BOARD FURRING FOR NEW MEZZANINE FLOOR FRAMING COORDINATE WITH STRUCTURAL DRAWINGS AND DETAIL. 11/8001 PARTIAL GYPSUM BOARD AND PAINT TO MATCH EXISTING WHERE EXPOSED UNDER NEW CEILING.

◆◆◆◆◆ EXISTING 3 HOUR FIRE SEPARATION (UL DESIGN NO. U907)

◆◆◆◆◆ EXISTING 4 HOUR FIRE SEPARATION (UL DESIGN NO. U907)

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CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457



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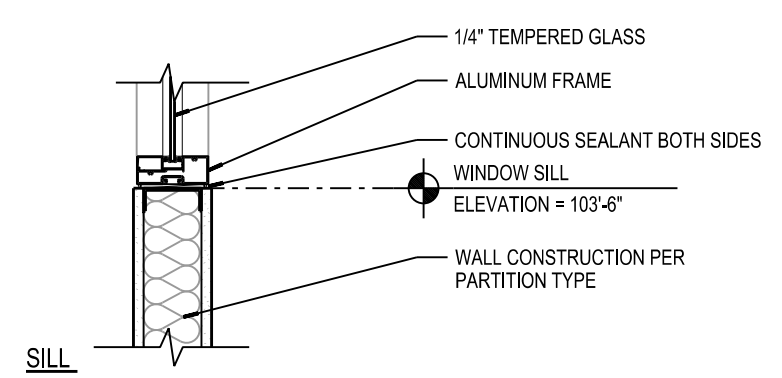
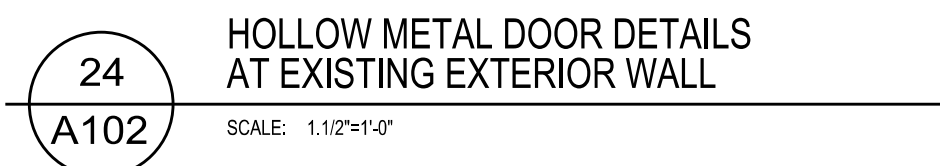
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ISSUANCES	REVISIONS
OWNER REVIEW 6/20/2012	
DEPARTMENT OF COMMERCE REVIEW 7/9/2012	
OUT FOR BID 7/16/2012	
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*	
*	

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OVERALL EXISTING
AND DEMOLITION
FLOOR PLAN

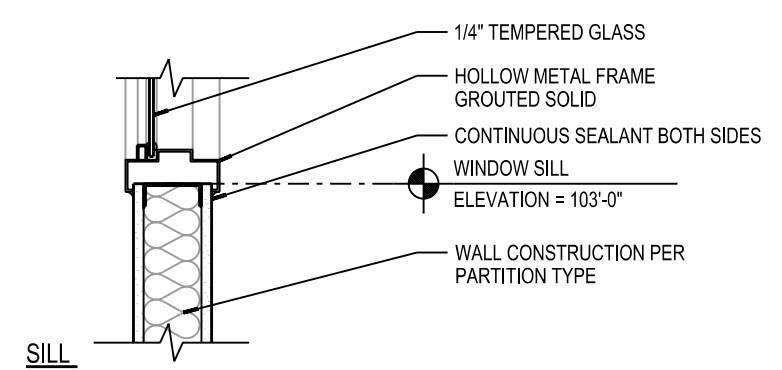
A100



23
A102

INTERIOR FIXED ALUMINUM WINDOW
FRAME DETAILS AT METAL STUD WALL

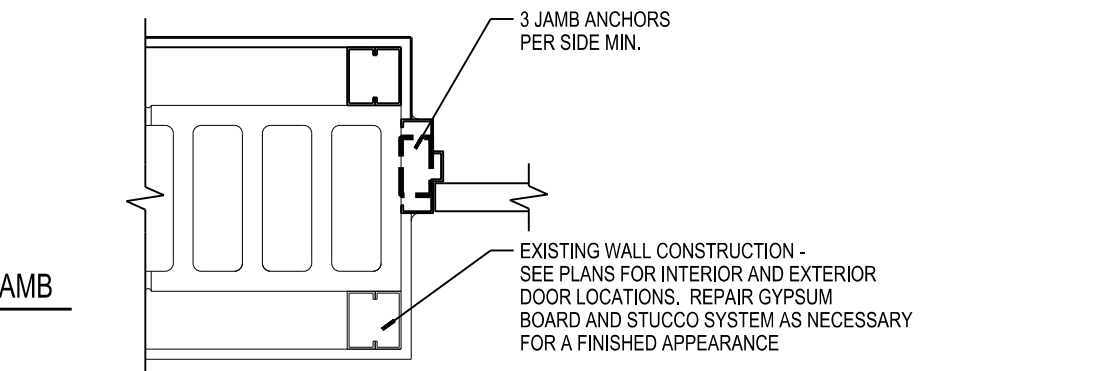
SCALE: 1"=1'-0"



21
A102

INTERIOR FIXED HOLLOW METAL WINDOW
FRAME DETAILS AT METAL STUD WALL

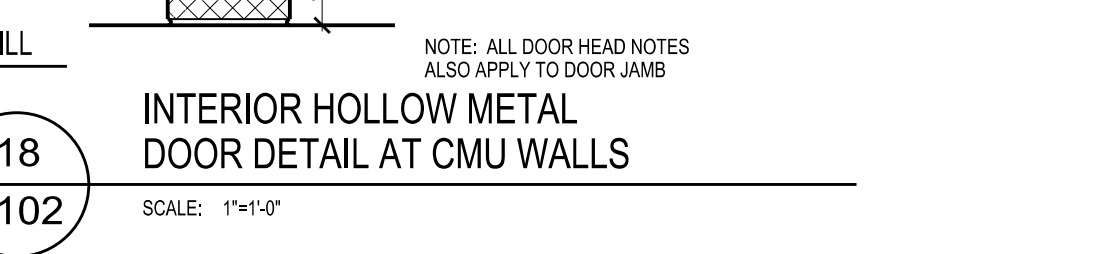
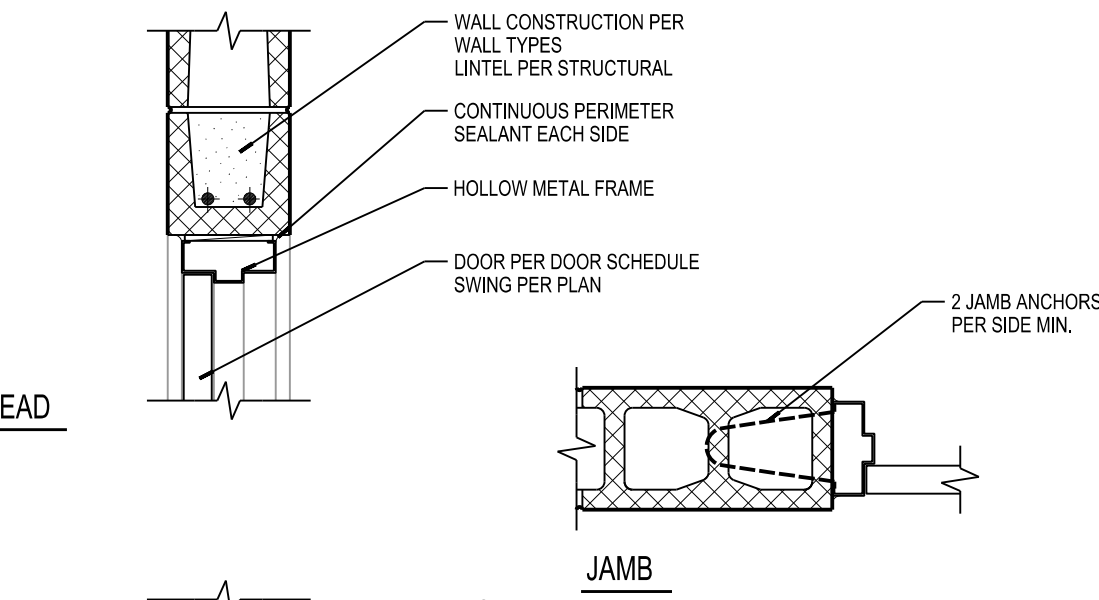
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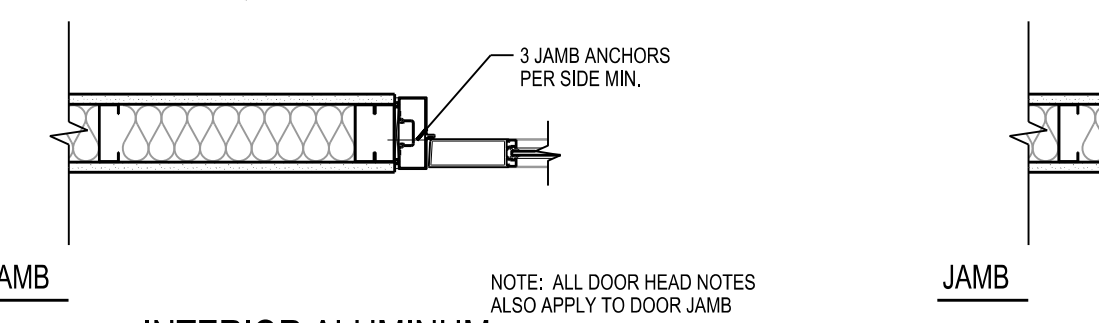
19
A102

INTERIOR HOLLOW METAL
DOOR DETAIL AT EXISTING CMU WALL

SCALE: 1"=1'-0"



NEW WALL PARTITION
REFER TO WALL PARTITION TYPES
DETAIL

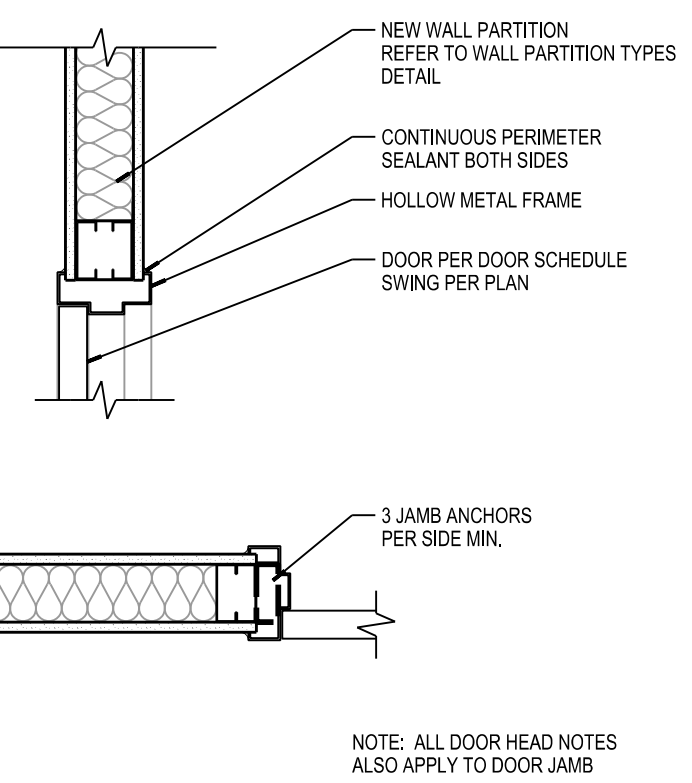


ALSO APPLY TO DOOR JAMB

17
A102

INTERIOR ALUMINUM
DOOR DETAIL AT STUD WALL

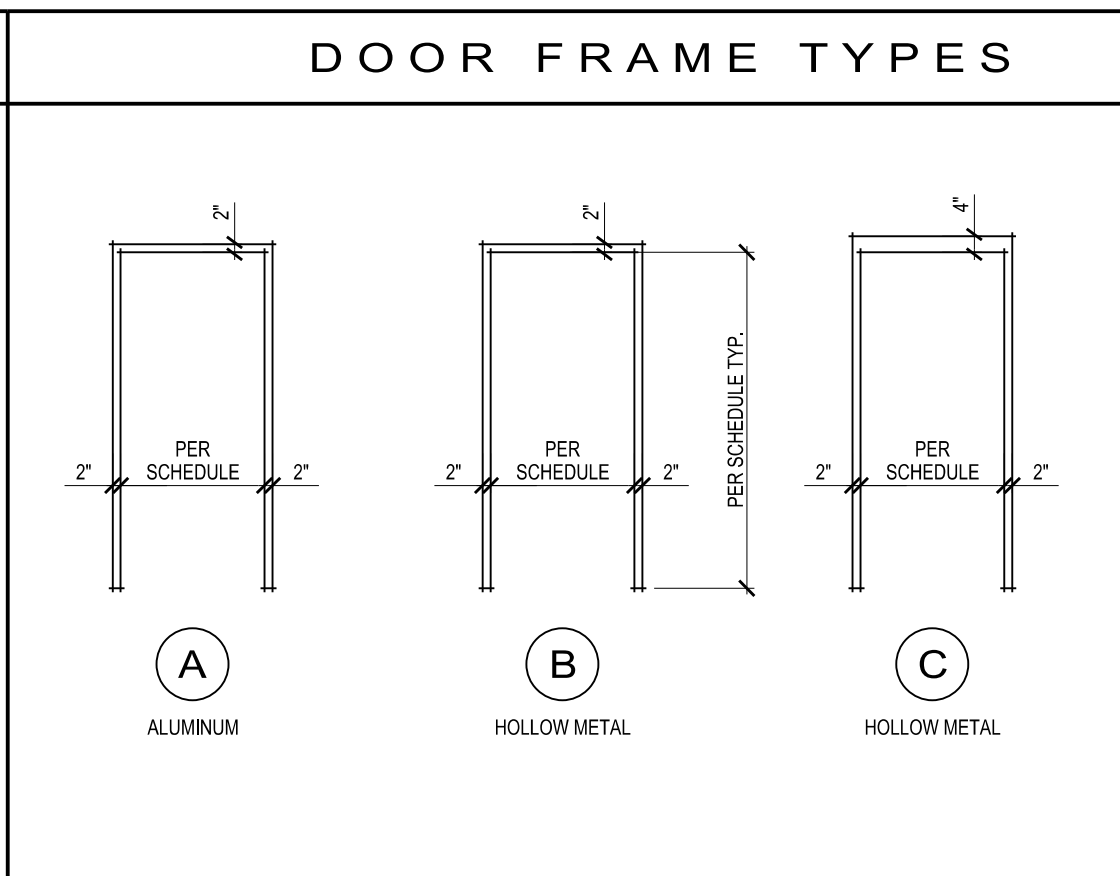
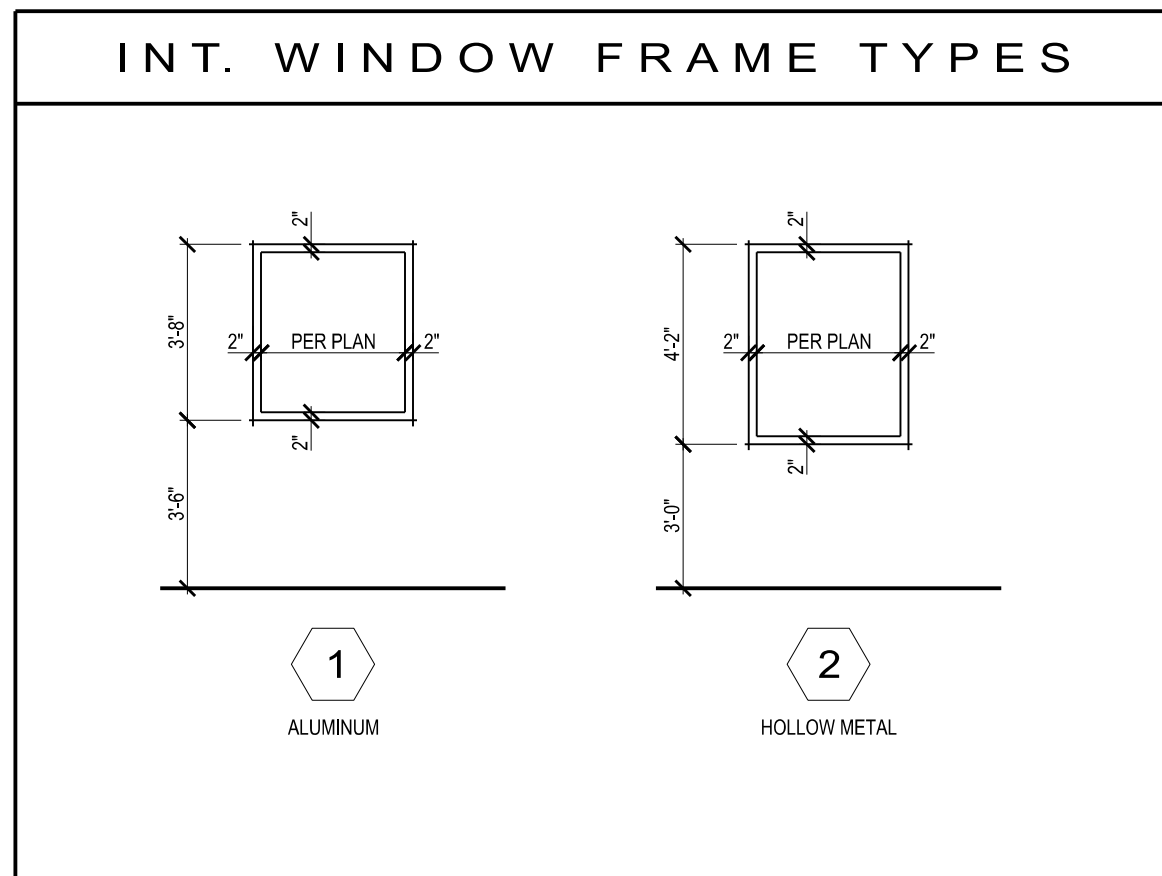
SCALE: 1"=1'-0"



ALSO APPLY TO DOOR JAMB

13 INTERIOR DOOR DETAIL AT STUD WALL

A102 SCALE: 1"=1'-0"



DOOR SIZE		DETAILS					REMARKS	
DOOR NUMBER		DOOR TYPE	FRAME TYPE	LABEL (MM)	HARDWARE SET	HEAD	JAMB	
112	(2) 3'-0" x 7'-0"	A	C	-	08	05/A102	05/A102	
115A	3'-4" x 7'-0"	C	B	60	06	01/A102	01/A102	
115B	3'-4" x 7'-0"	C	B	60	06	01/A102	01/A102	
115C	3'-4" x 7'-0"	C	B	60	06	01/A102	01/A102	
116A	3'-8" x 7'-0"	C	B	-	01	01/A102	01/A102	
116B	3'-8" x 7'-0"	C	B	-	01	01/A102	01/A102	
117	4'-0" x 7'-0"	C	B	-	01	01/A102	01/A102	
120	3'-0" x 7'-0"	B	B	-	07	01/A102	01/A102	
121	3'-0" x 7'-0"	B	B	-	07	01/A102	01/A102	
122A	3'-8" x 7'-0"	C	B	-	01	01/A102	01/A102	
122B	4'-0" x 7'-0"	F	B	-	05	20/A105	20/A105	
122C	(2) 3'-0" x 3'-10"	D	B	-	05	18/A102	18/A102	REINFORCED HOLLOW METAL DOORS
122D	(2) 3'-0" x 3'-10"	D	B	-	05	18/A102	18/A102	REINFORCED HOLLOW METAL DOORS
122E	(2) 3'-0" x 3'-10"	D	B	-	05	18/A102	18/A102	REINFORCED HOLLOW METAL DOORS
123	3'-0" x 3'-10"	D	B	60	05	01/A102	01/A102	
124A	3'-0" x 7'-0"	E	C	180	04	19/A102	19/A102	
124B	3'-0" x 7'-0"	E	C	180	02	19/A102	19/A102	
125A	3'-0" x 7'-0"	C	B	-	01	01/A102	01/A102	
125B	(2) 4'-0" x 7'-0"	D	B	-	03	01/A102	01/A102	INSULATED HOLLOW METAL DOORS
126A	3'-0" x 7'-0"	C	B	-	01	01/A102	01/A102	
126B	3'-0" x 7'-0"	E	B	-	01	01/A102	01/A102	INSULATED HOLLOW METAL DOOR
127A	3'-4" x 7'-0"	B	B	-	01	01/A102	01/A102	
127B	(2) 3'-10" x 7'-0"	D	B	-	03	21/A105	21/A105	
127C	3'-0" x 7'-0"	E	C	-	02	24/A102	24/A102	
127D	EXISTING DOOR TO REMAIN	-	-	-				NEW PERIMETER WEATHERSTRIPPING ONLY
127E	EXISTING DOOR TO REMAIN	-	-	-				NEW PERIMETER WEATHERSTRIPPING ONLY
128A	(2) 4'-0" x 7'-0"	E	B	-	01	01/A102 SIM.	01/A102 SIM.	
128B	3'-0" x 7'-0"	E	B	-	01	01/A102 SIM.	01/A102 SIM.	
130	EXISTING DOOR TO REMAIN	-	-	-				REMOVE EX. LOCKSET, INSTALL OWNER PROV. LOCKSET

A

ALUMINUM
WIDE STILE
w/ FULL LT

B

FLUSH
WOOD

C

WOOD
w/ LIGHT

D

FLUSH HOLLOW
METAL
(INSULATED AT EXTERIOR
CONDITIONS
SEE SCHEDULE REMARKS
FOR ADDITIONAL DOOR REQ.)

E

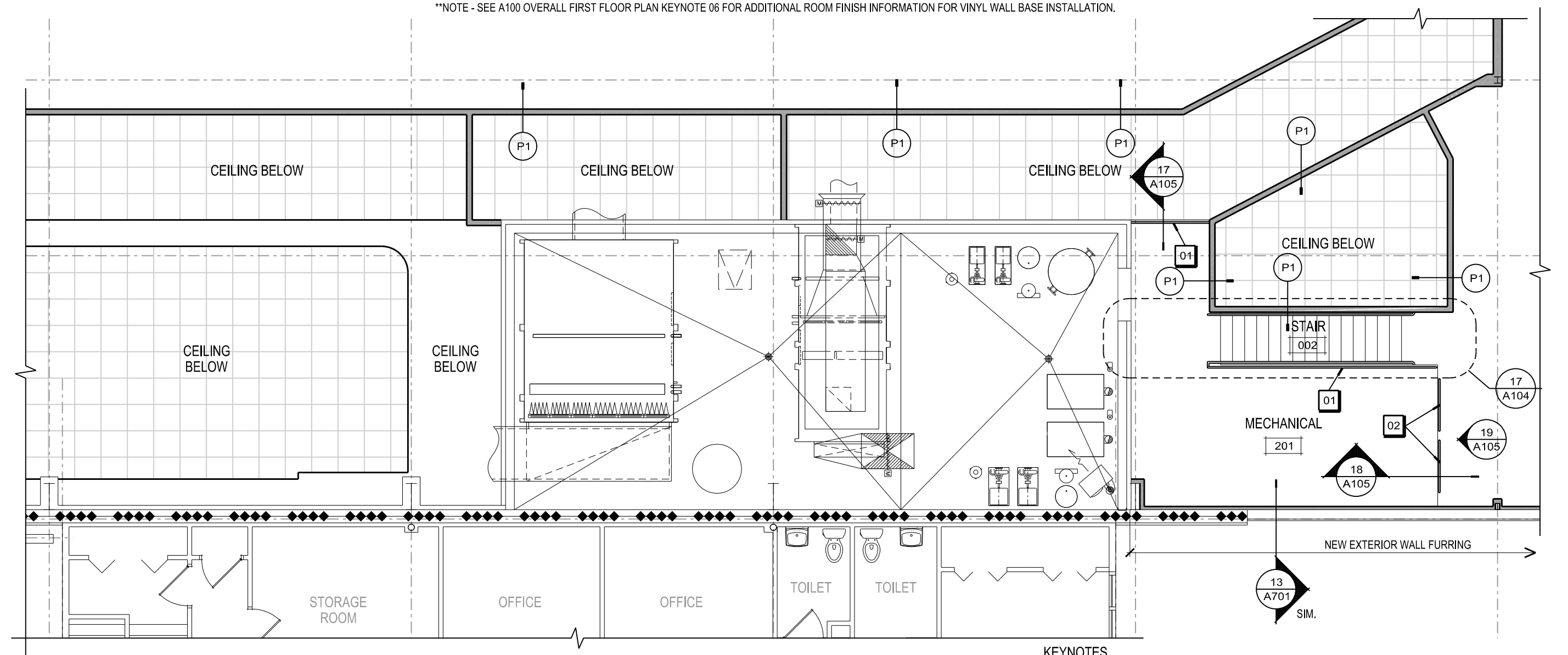
HOLLOW METAL
w/ NARROW LT
(INSULATED AT
EXTERIOR CONDITIONS)

F

HOLLOW METAL
w/ VISION LT

	ROOM NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
ROOM NUMBER	LEGEND ○ ENTIRE ROOM ⊗ NORTH ⊗ SOUTH ⊗ EAST ⊗ WEST	CARPET TILE PORCELAIN TILE HOMOGENEOUS VINYL TILE ATHLETIC RUBBER TILE NONE OR EXISTING TO REMAIN NON-SLIP SURFACE OVER EX. CONCRETE	VINYL PORCELAIN TILE NONE EXISTING TO REMAIN	GYPSUM WALLBOARD - PAINTED PORCELAIN WALL TILE PAINTED CONCRETE MASONRY UNIT FRP (FIBER REINFORCED PANELS), LINER PANEL NONE EXISTING TO REMAIN VINYL WALL COVERING ALTERNATE A-1	2 x 2 ACoustICAL TILE & SUSPENSION SYSTEM 2 x 2 V. R. & SUSPENSION SYSTEM ALTERNATE A-2 NONE	
112	AIRLOCK		○		○	HOLD DOWN CLIPS AT TILES, FRP & PLYWOOD TO 36" AFF
113	LOBBY		○	⊗		ALL SOFFITS TO BE PAINTED GYPSUM WALLBOARD
114	CORRIDOR		○	⊗	○	ALL SOFFITS TO BE PAINTED GYPSUM WALLBOARD
115	AUDITORIUM	○	○		○	ALL SOFFITS TO BE PAINTED GYPSUM WALLBOARD
116	COMPUTER LAB	○	○		○	
117	FITNESS TRAINING		○	⊗	○	
118	BREAK AREA		○	⊗		ALL SOFFITS TO BE PAINTED GYPSUM WALLBOARD
119	CORRIDOR		○	⊗	○	
120	RESTROOM		○	⊗	○	
121	RESTROOM		○	⊗	○	
122	DATT ROOM		⊗	○	○	FRP TO 8'-0" AFF. MTL LINER PANEL FROM 8'-0" TO STRUCTURE
123	STORAGE				○	
124	ENTRY		○	⊗		
125	DRIVING SIMULATOR		○		○	
126	QUARTER MASTER	○		⊗	○	
127	RECEIVING AREA		○	⊗	○	SEE A101 FOR FRP NOTE
128	SAFETY CORRIDOR		○	⊗	○	
129	SCENARIO TRAINING			⊗	○	FRP TO 8'-0" AFF, MTL LINER PANEL FROM 8'-0" TO T.O. WALL
S001	STAIR	○		⊗	○	CARPET IS OVER STAIRS AND TOP LANDING
S002	STAIR		⊗	⊗	○	
R001	RAMP				○	
107 & 109	EX. WOMEN'S & MEN'S RESTROOM					
108 & 110	EX. WOMEN'S & MEN'S LOCKERS					

**NOTE - SEE A100 OVERALL FIRST FLOOR PLAN KEYNOTE 06 FOR ADDITIONAL ROOM FINISH INFORMATION FOR VINYL WALL BASE INSTALLATION.



 NORTH

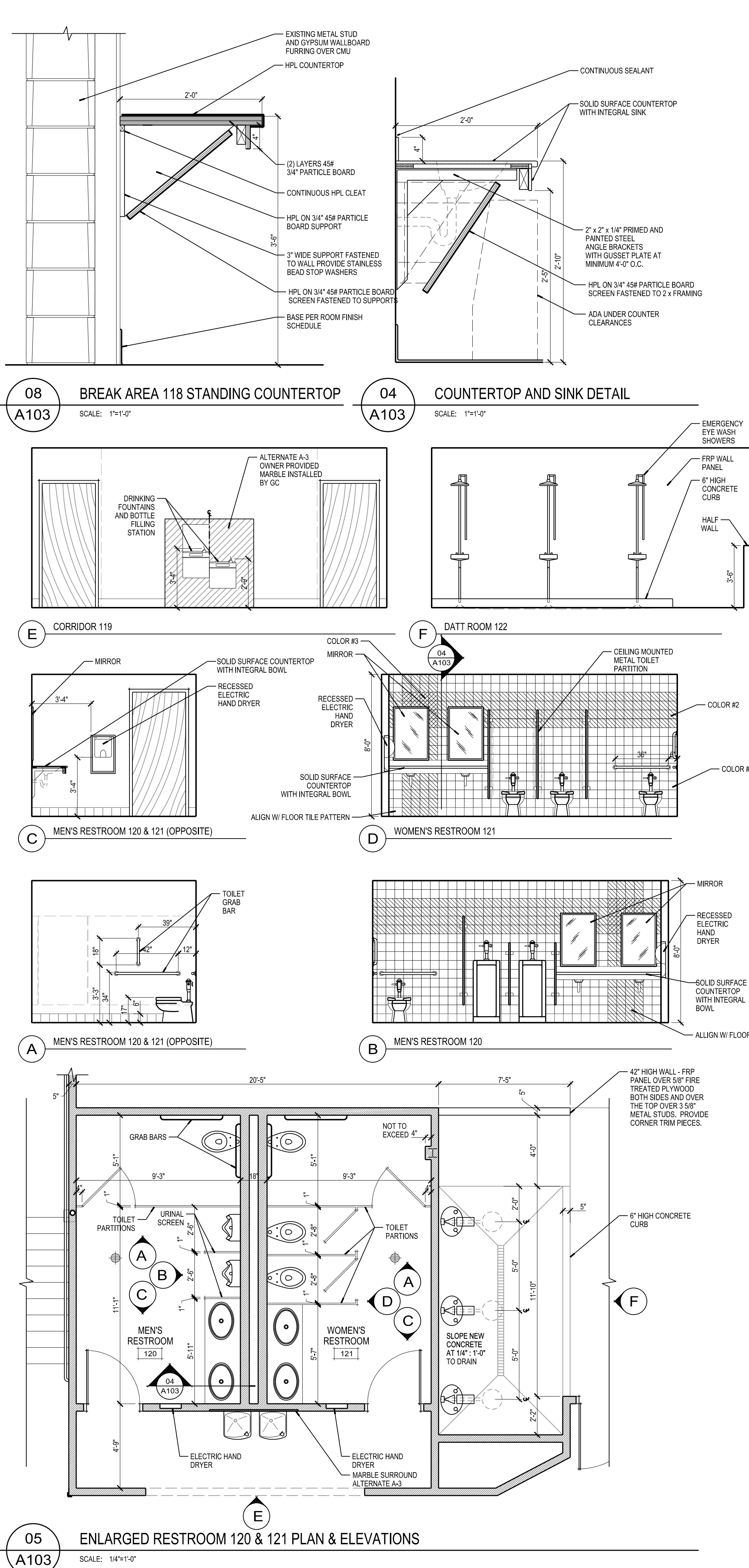
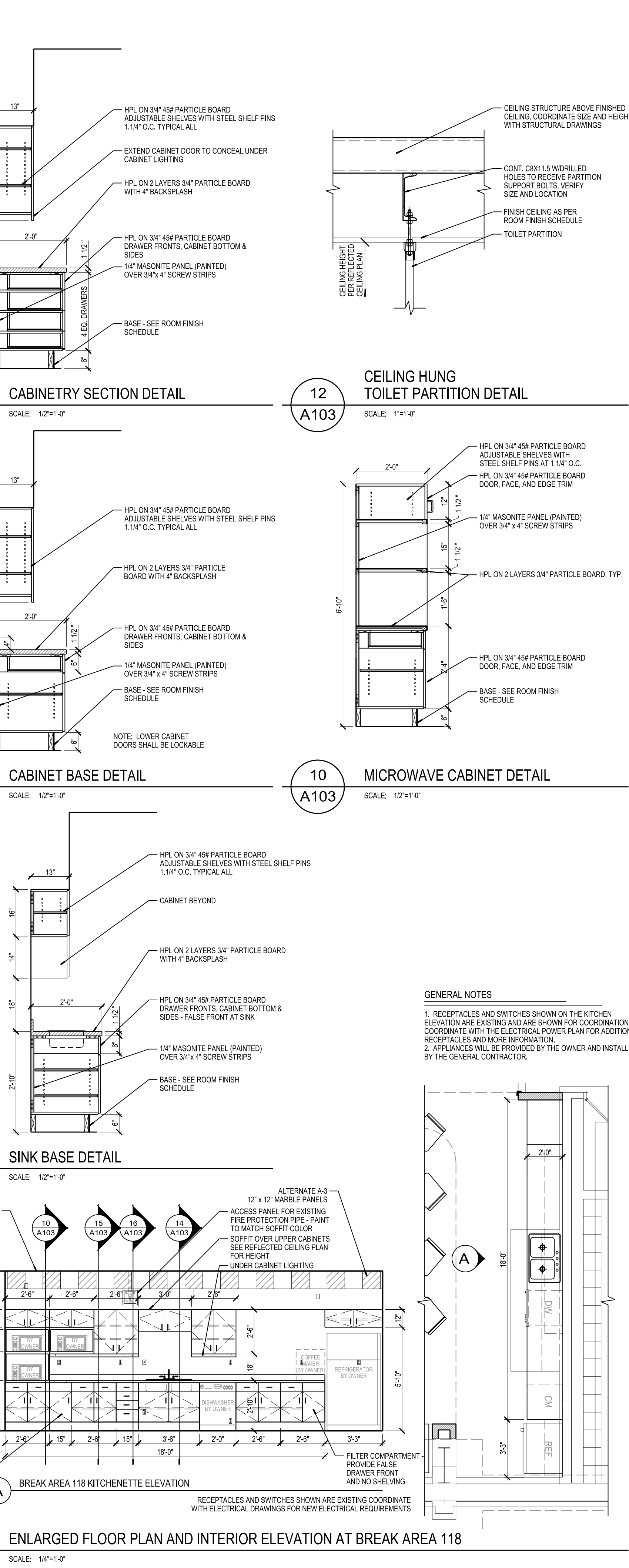
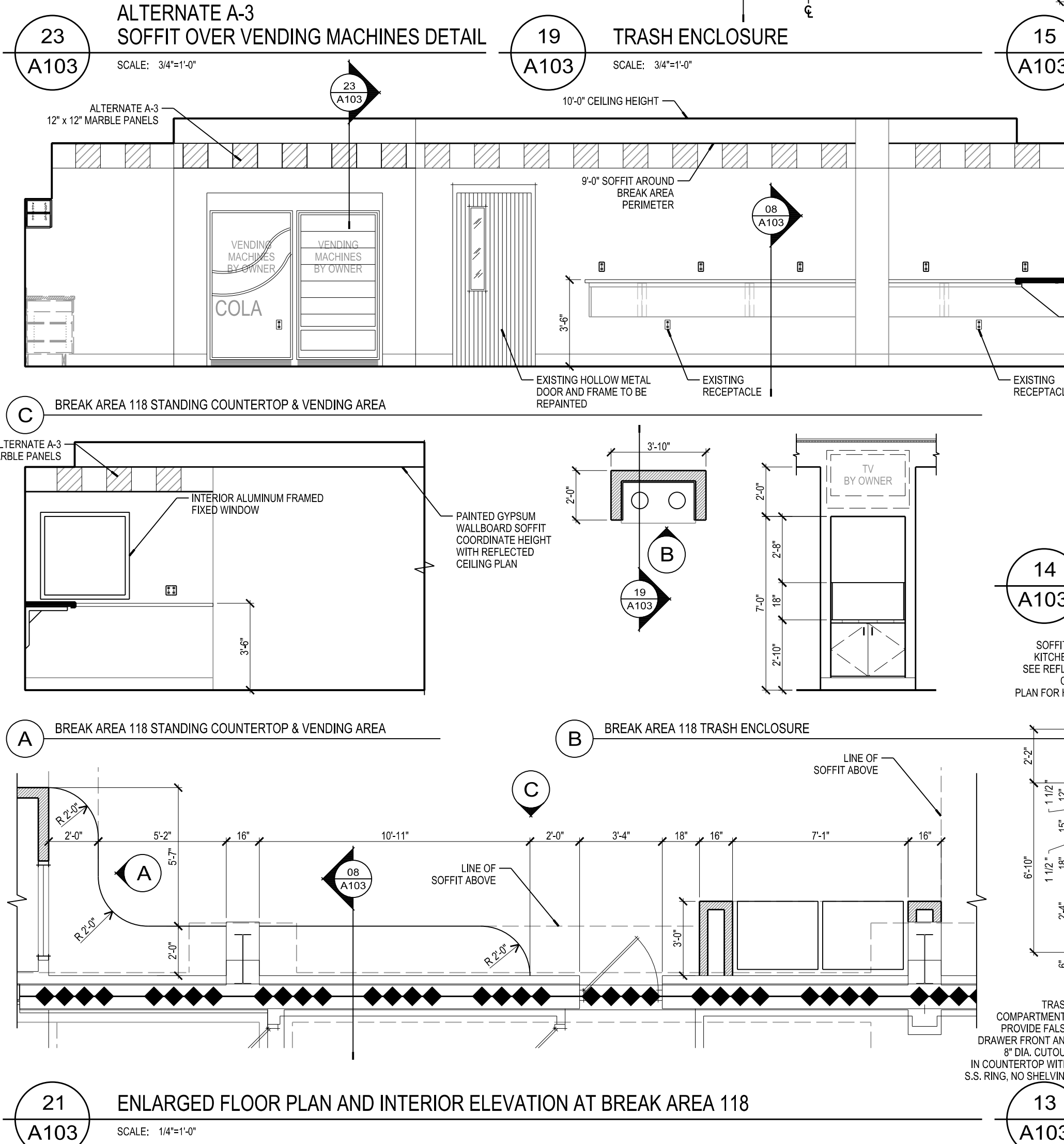
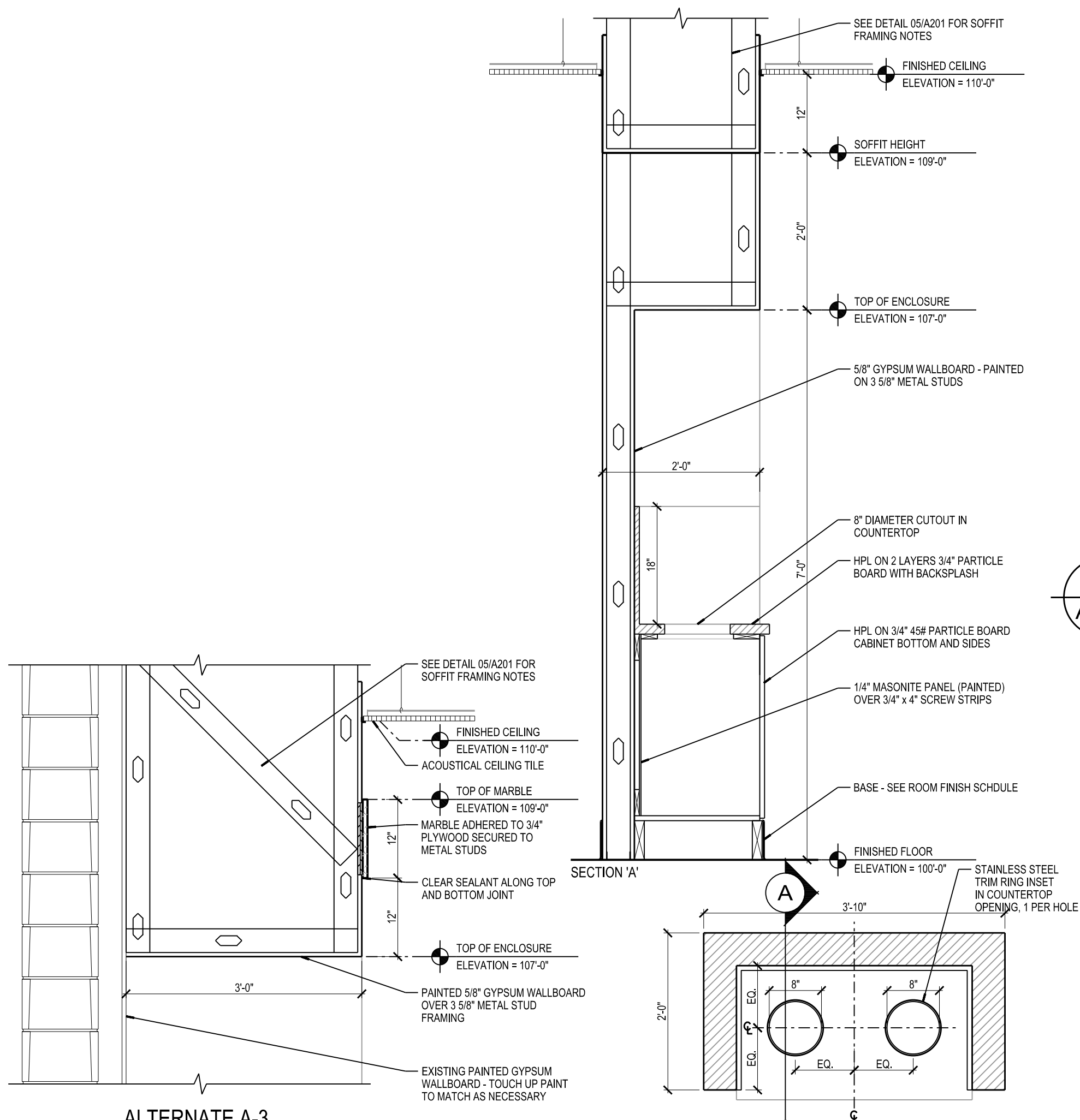
MECHANICAL LEVEL FLOOR PLAN

SCALE: 1/8"=1'-0"



SCALE: 1/8"=1'-0"
PLOTTED BY: Admin

ORIGINAL SIZE = 24" x 36"
X:\6453\cam\6453a103.dgn



Due to electronic distribution, this drawing may not be printed to the scale indicated on the drawings. Do NOT use scale to determine dimensions or sizes.

24
A104

AUDITORIUM STAIR ENLARGED PLAN AND SECTION

SCALE: 1/4"=1'-0"

SECTION A

22 STEEL PAN STAIR HEAD SECTION
A104 SCALE: 1"=1'-0"

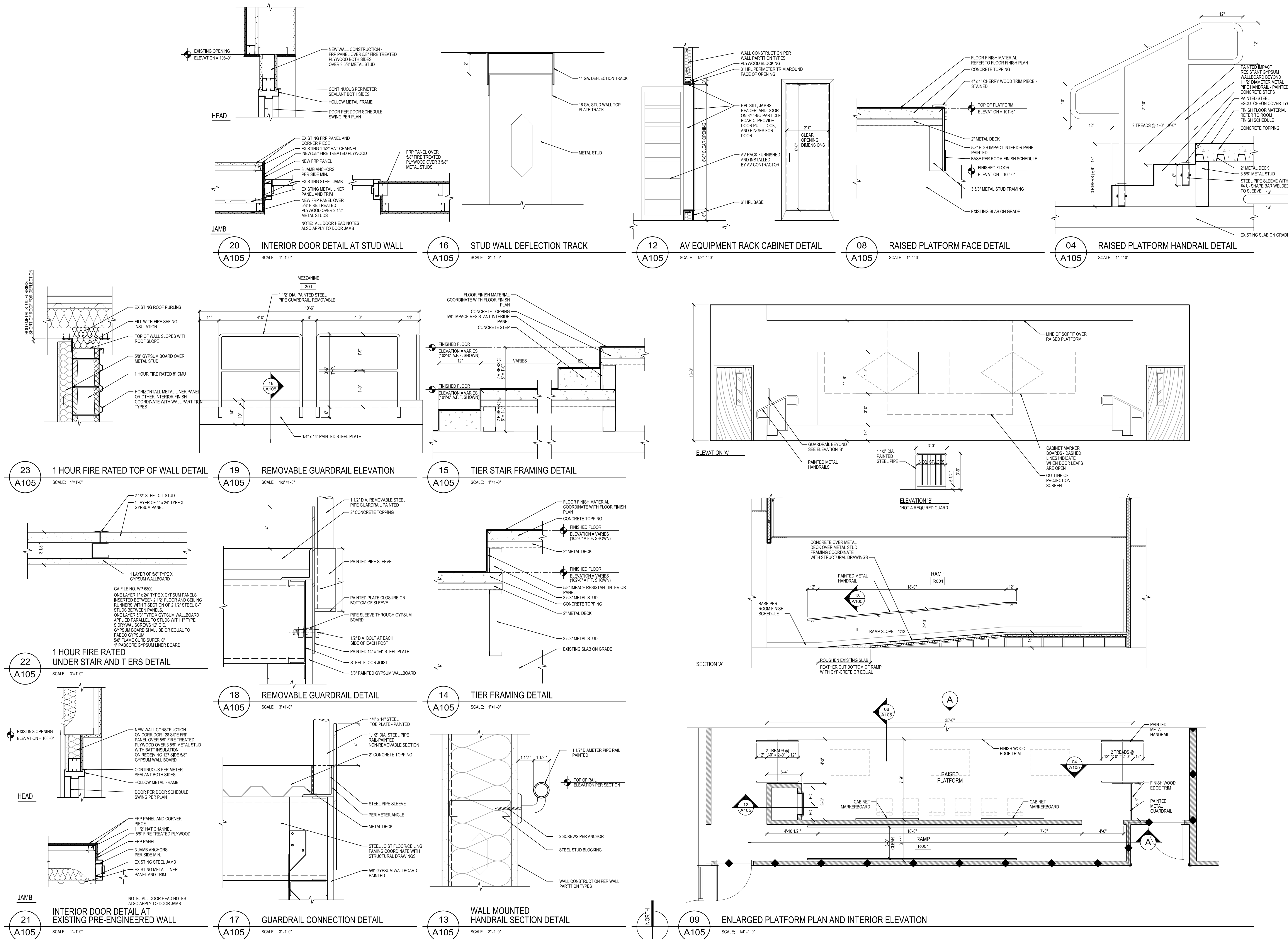
21 STEEL PAN STAIR TOE SECTION

MECHANICAL EQUIPMENT PLATFORM STAIR PLAN AND SECTION

09 KIOSK AND WATER FEATURE ENLARGED PLAN, ELEVATION, SECTION, AND DETAILS

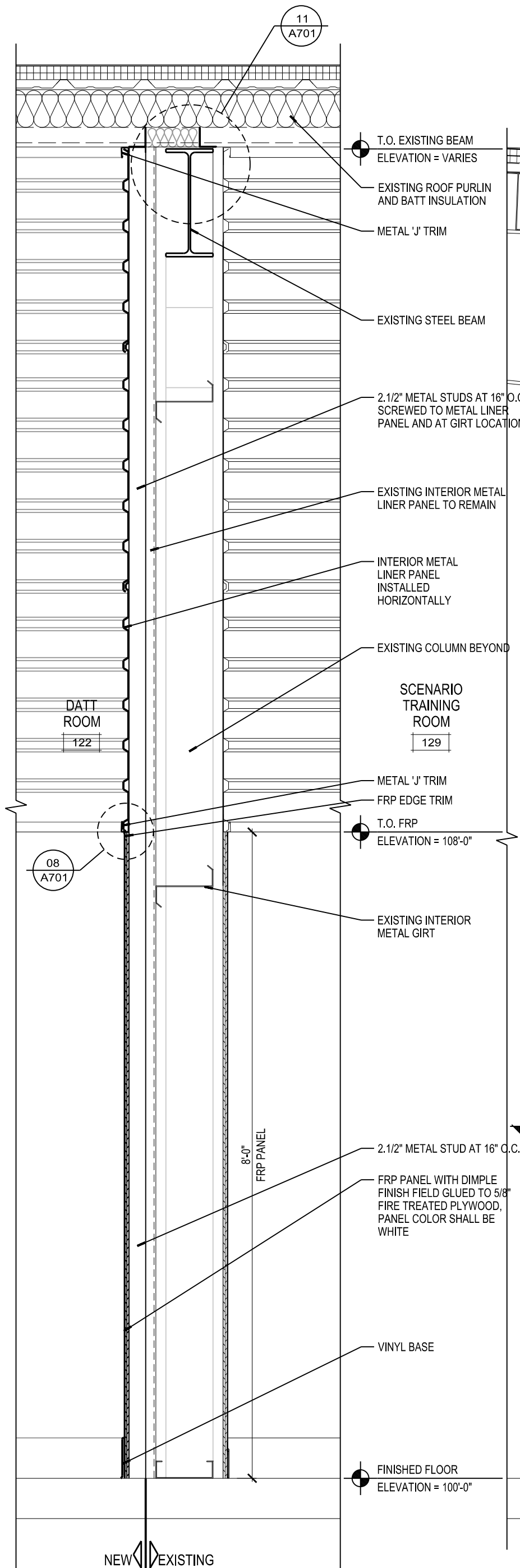
The image contains two technical drawings of panels. The left drawing is for the 'COMPUTER MONITOR PANEL (2 TOTAL)' with a scale of 1 1/2"=1'-0". It shows a rectangular panel with a central rectangular cutout. Dimensions include a total width of 10 3/4", a total height of 16 3/4", and a central cutout with a width of 1'-6 1/2" and a height of 4'-2". A circular hole is located within the cutout, with a diameter of 2'-1 1/4". The right drawing is for the 'TACKBOARD PANEL (2 TOTAL)' with a scale of 1 1/2"=1'-0". It shows a rectangular panel with a central rectangular cutout. Dimensions include a total width of 10 3/4", a total height of 16 3/4", and a central cutout with a width of 1'-6 1/2" and a height of 4'-2". A circular hole is located within the cutout, with a diameter of 2'-1 1/4".

Technical drawing of a square particle board panel assembly. The drawing shows a central square panel with a dashed outline, surrounded by a grid pattern. Dimensions include 5'0" and 4'0" for the outer square, and 2'0" and 2'6" for the inner square. Callouts include: 'G ARE OUR SIDES' (pointing to the top-left corner), 'TACKABLE SURFACE THESE PANELS ONLY' (pointing to the top-right corner), '2 1/2" DIAMETER STAINLESS STEEL PIPE' (pointing to a circular feature), 'COMPUTER MONITOR THESE PANELS ONLY' (pointing to the central square), and '45P PARTICLE BOARD OVER ALL INCLUDING PANEL' (pointing to the bottom-left corner). A circular callout '04 A104' is located in the top-right corner. A small square callout 'A' is in the top-left corner. A small circular callout '7' is in the bottom-left corner. A small square callout 'G' is in the center of the top edge of the inner square.



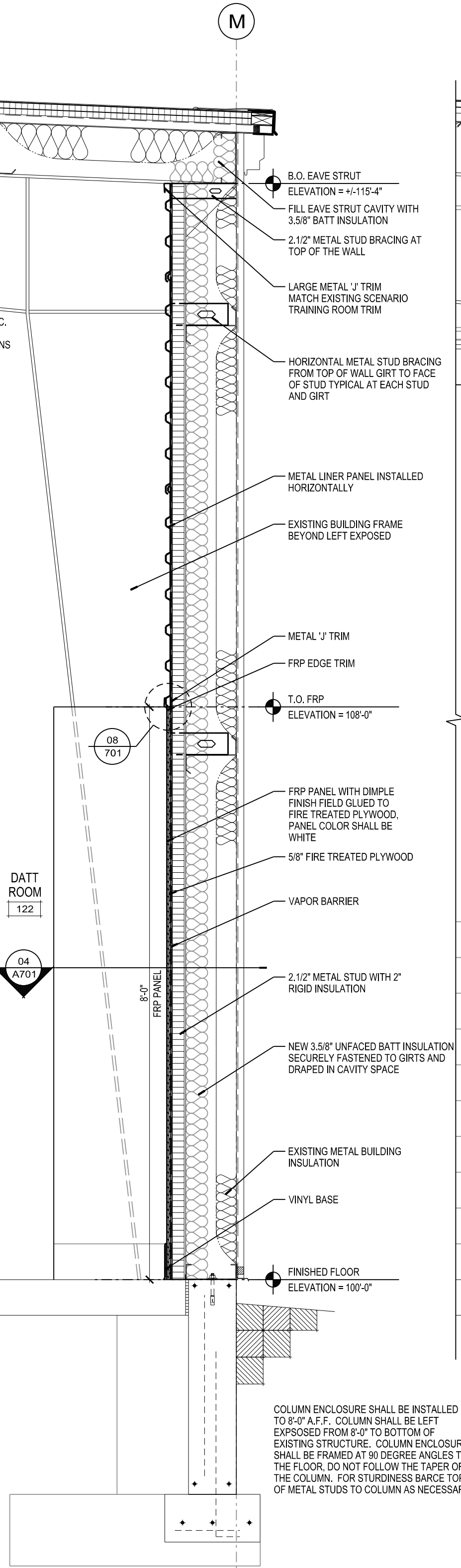


21
A701
INTERIOR WALL SECTION
SCALE: 3/4"=1'-0"



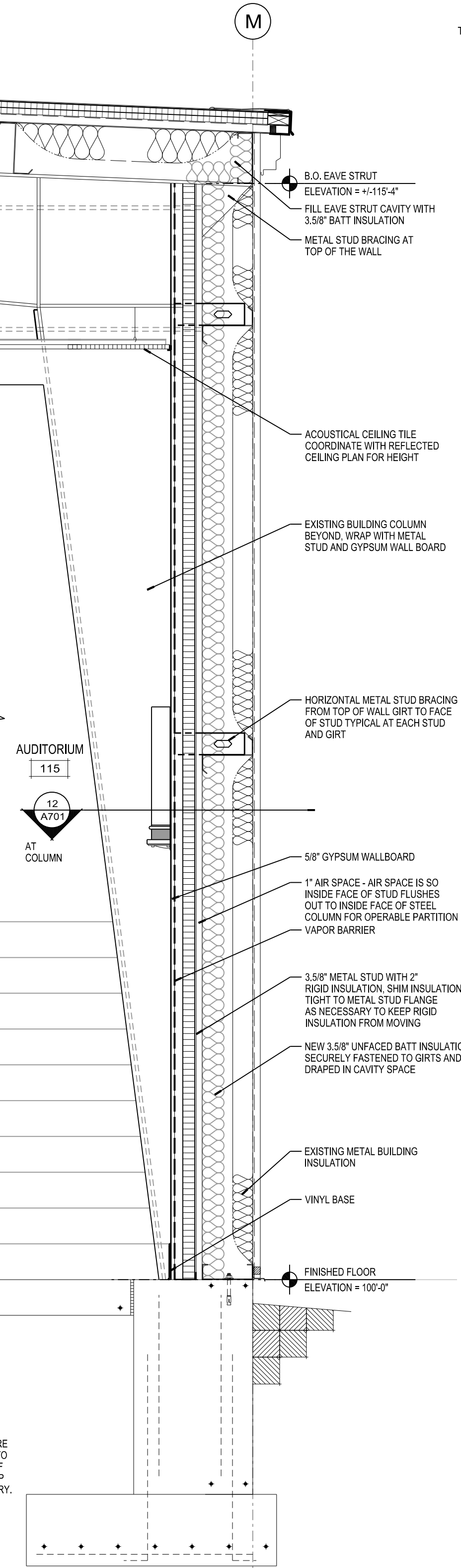
NOTE: INSTALL METAL LINER PANEL TO BOTTOM OF EXISTING ROOF PURLINS, FOLLOW ROOF SLOPE.

17
A701
EXTERIOR WALL SECTION
SCALE: 3/4"=1'-0"

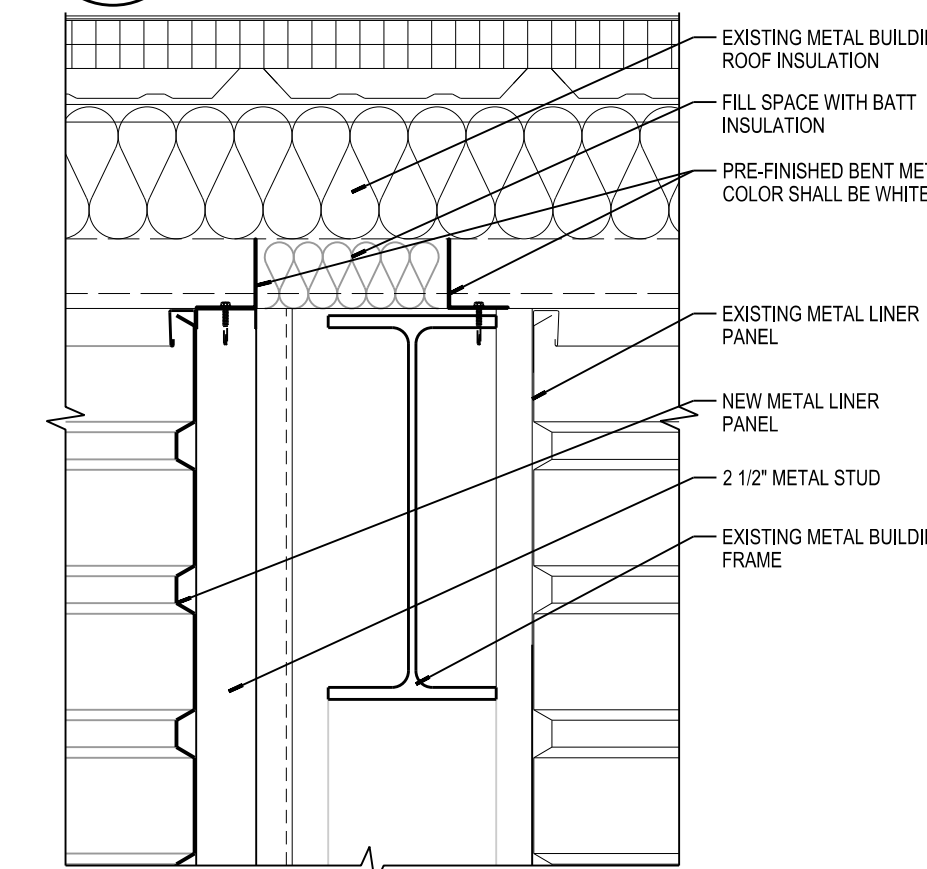


COLUMN ENCLOSURE SHALL BE INSTALLED TO 8'-0" A.F.F. COLUMN SHALL BE LEFT EXPOSED FROM 8'-0" TO BOTTOM OF EXISTING STRUCTURE. COLUMN ENCLOSURE SHALL BE FRAMED AT 90 DEGREE ANGLES TO THE FLOOR, DO NOT FOLLOW THE TAPER OF THE COLUMN. FOR STURDINESS BRACE TOP OF METAL STUDS TO COLUMN AS NECESSARY.

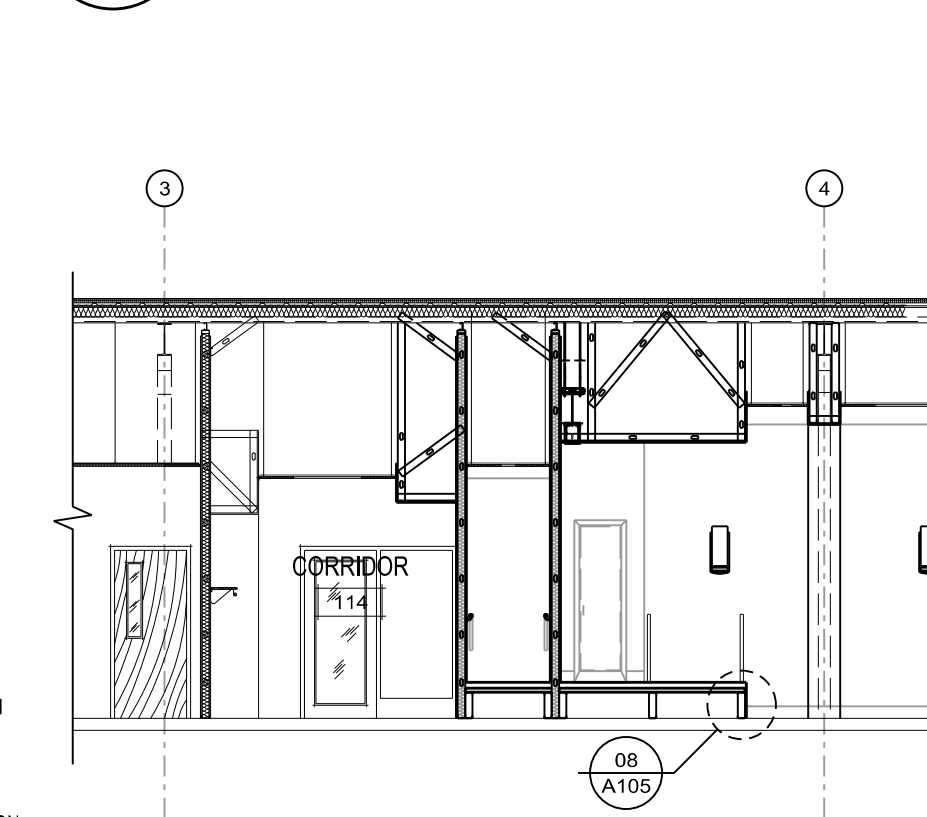
13
A701
EXTERIOR WALL SECTION
SCALE: 3/4"=1'-0"



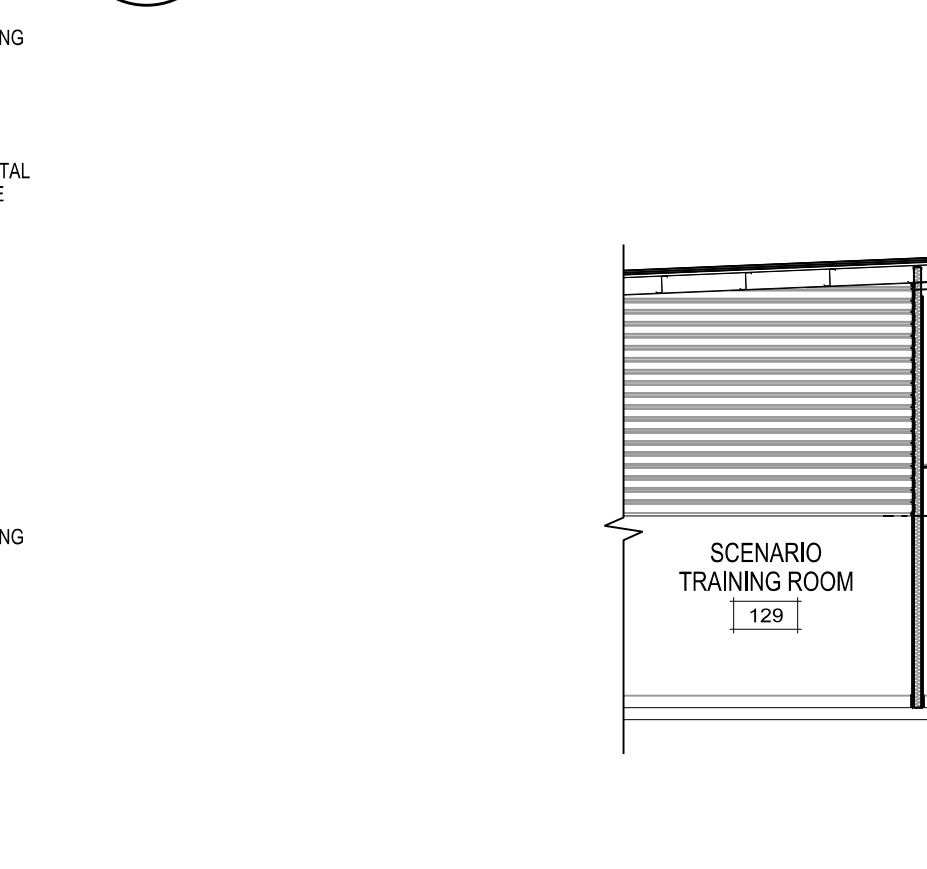
12
A701
COLUMN ENCLOSURE DETAIL
SCALE: 1 1/2"=1'-0"



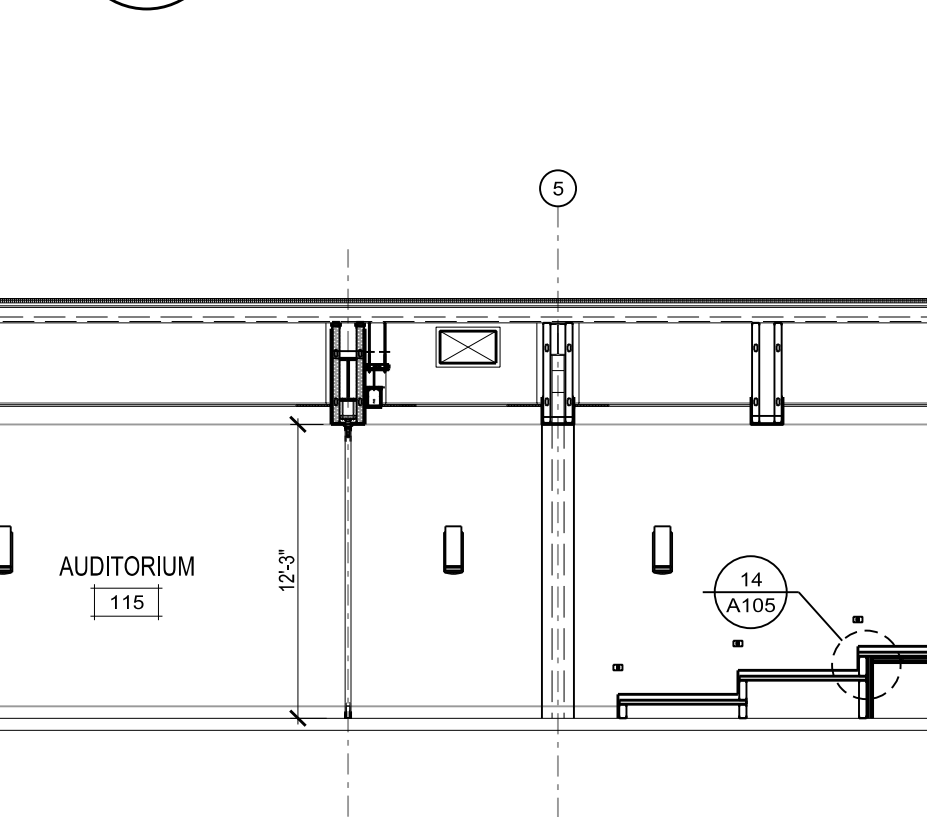
11
A701
TOP OF WALL DETAIL
SCALE: 1 1/2"=1'-0"



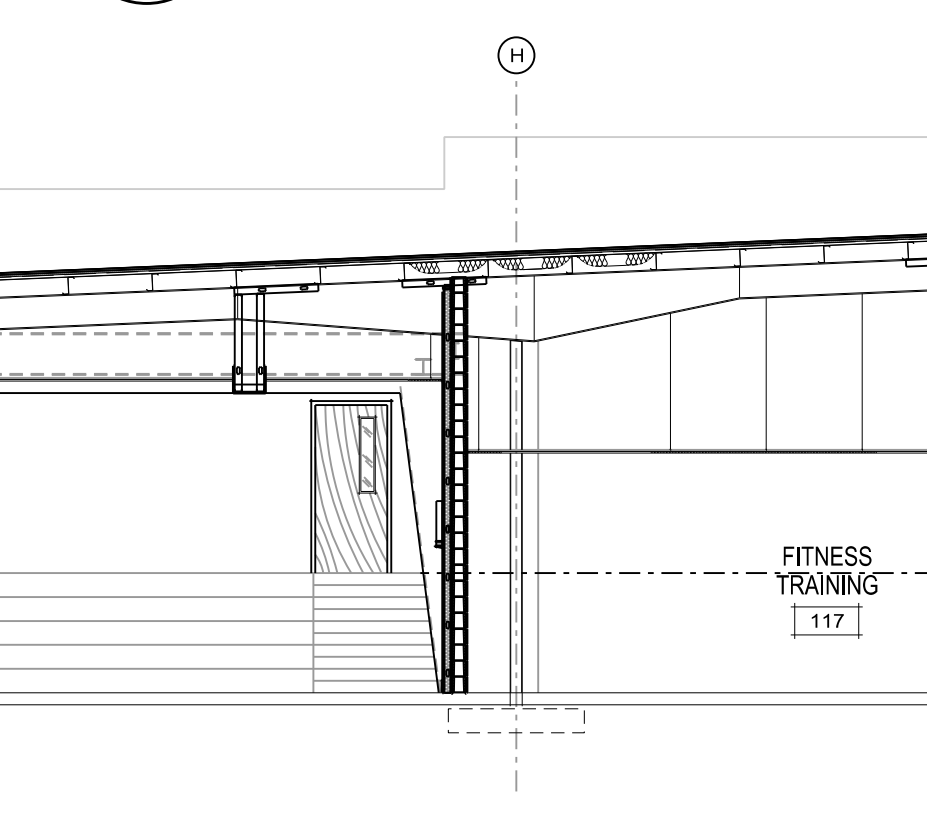
08
A701
FRP PANEL TO METAL LINER PANEL TRANSITION
SCALE: 3"=1'-0"



07
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



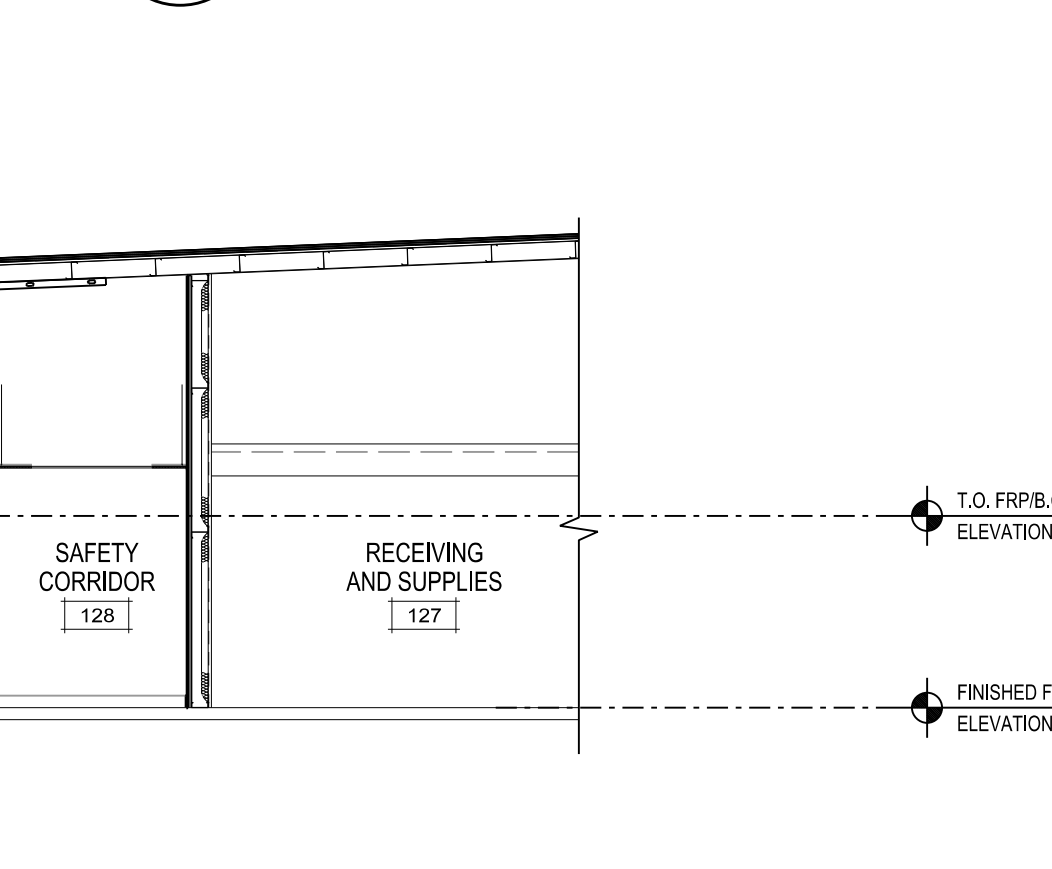
06
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



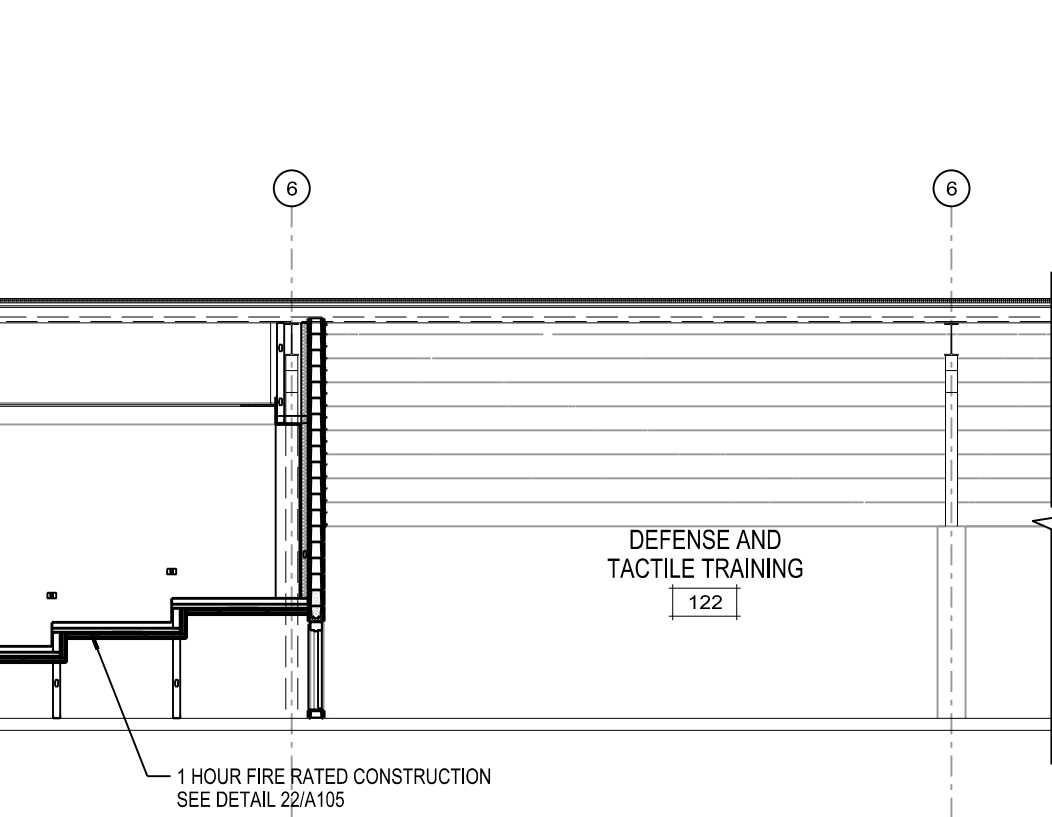
05
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



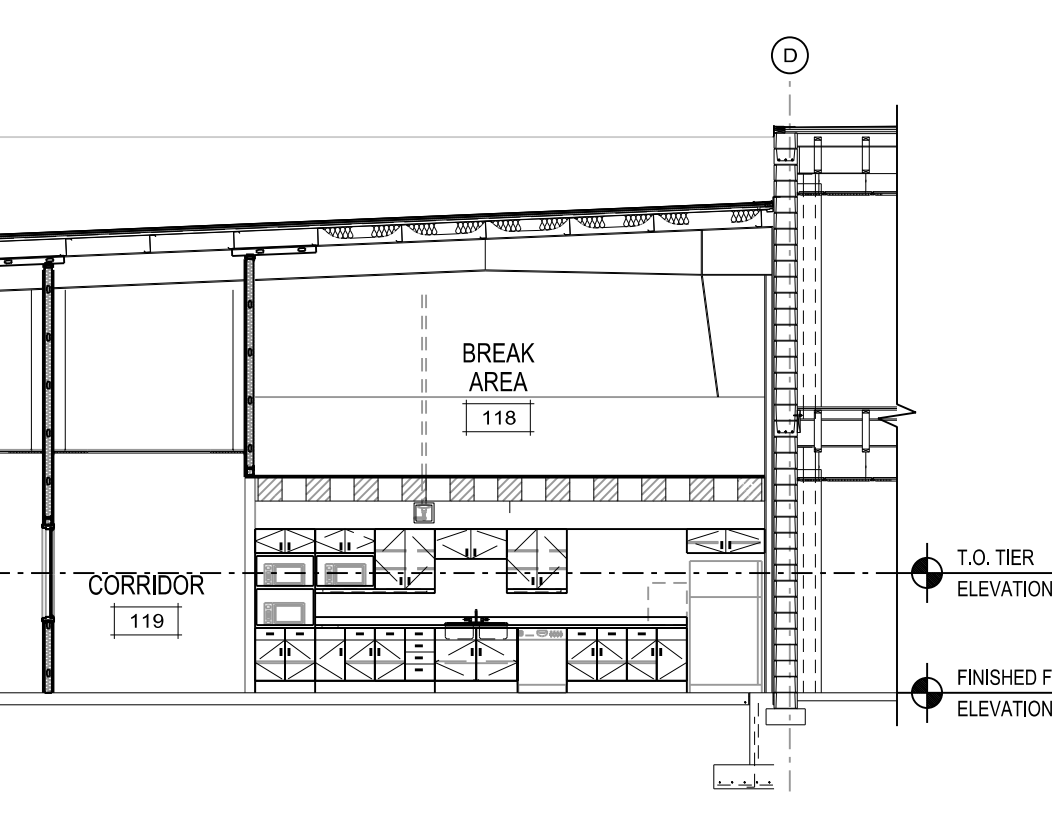
04
A701
COLUMN ENCLOSURE DETAIL
SCALE: 1 1/2"=1'-0"



07
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



06
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



05
A701
BUILDING SECTION
SCALE: 1/8"=1'-0"



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PROJECT NUMBER
46453
APPROVED BY
REVIEWED BY
DRAWN BY
AHH
7/12/2012 11:03:27 PM
BUILDING SECTIONS,
WALL SECTIONS, &
DETAILS

MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3
CITY OF MADISON
PROJECT #53W1393, CONTRACT #6457

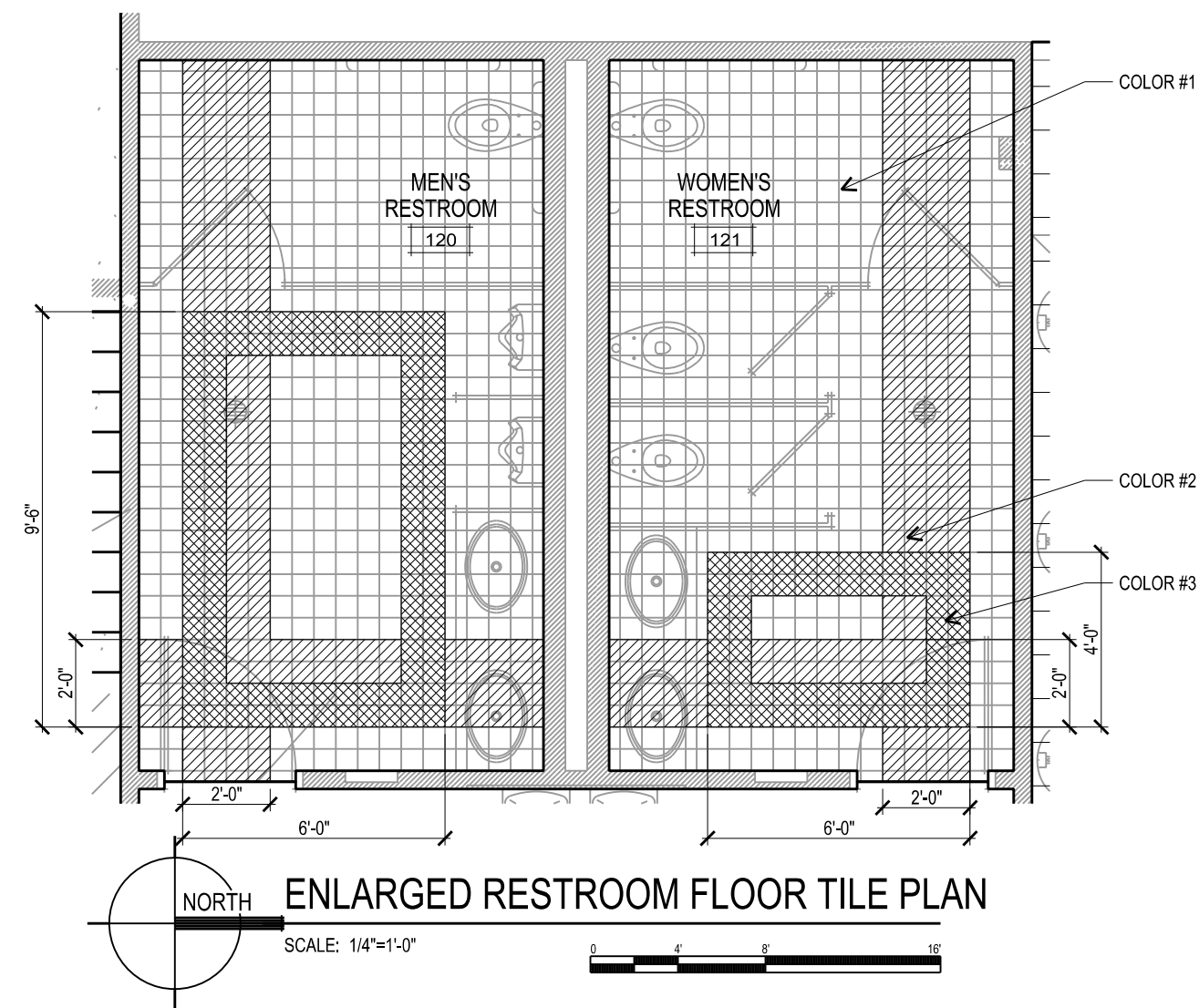


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REVISIONS	
OWNER REVIEW	6/20/2012
DEPARTMENT OF COMMERCE REVIEW	7/9/2012
OUT FOR BID	7/18/2012
ISSUANCES	
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A701

ORIGINAL SIZE = 24" x 36"
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KEYNOTES	
01	CARPET TILE - COLOR #1
02	CARPET TILE - COLOR #2
03	NOT USED
04	ATHLETIC RUBBER TILE
05	PORCELAIN TILE
06	NOT USED
07	NON SLIP SURFACE OVER EXISTING CONCRETE
08	NOT USED
09	HOMOGENEOUS VINYL TILE - COLOR #1
10	HOMOGENEOUS VINYL TILE - COLOR #2
11	HOMOGENEOUS VINYL TILE - COLOR #3
12	HOMOGENEOUS VINYL TILE - COLOR #4

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A801

MADISON POLICE DEPARTMENT

TRAINING CENTER PHASE 3

CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457

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PROJECT NUMBER
46453

APPROVED BY

REVIEWED BY

DRAWN BY
AHH

FLOOR FINISH
PLAN

OWNER REVIEW 6/20/2012

DEPARTMENT OF COMMERCE REVIEW 7/9/2012

OUT FOR BID 7/16/2012

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REVISIONS

A801

SCALE: 1/8"=1'-0"



MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3
CITY OF MADISON
PROJECT #53W1393, CONTRACT #60

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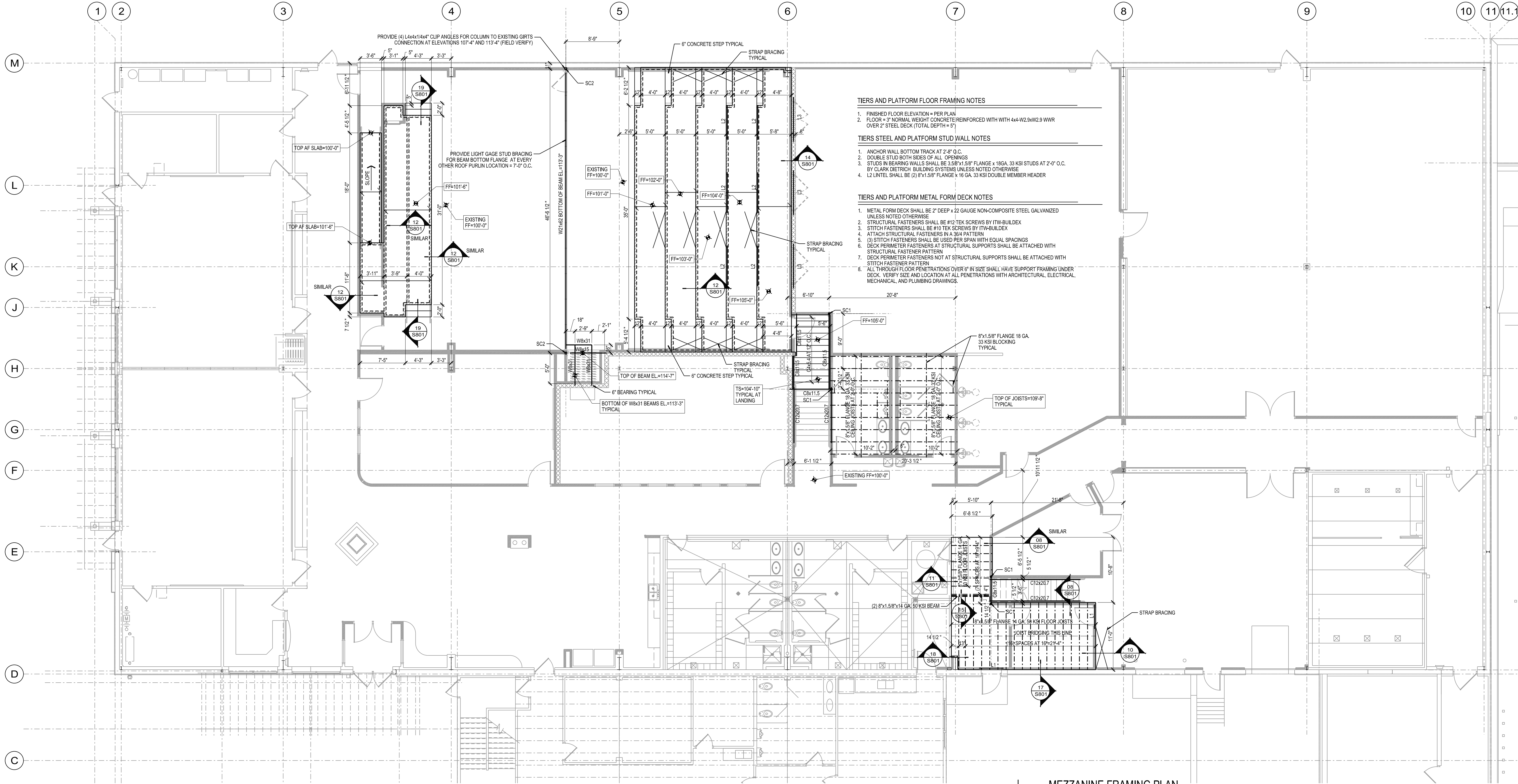
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ISSUANCES	REVISIONS
OWNER REVIEW 6/20/2012	
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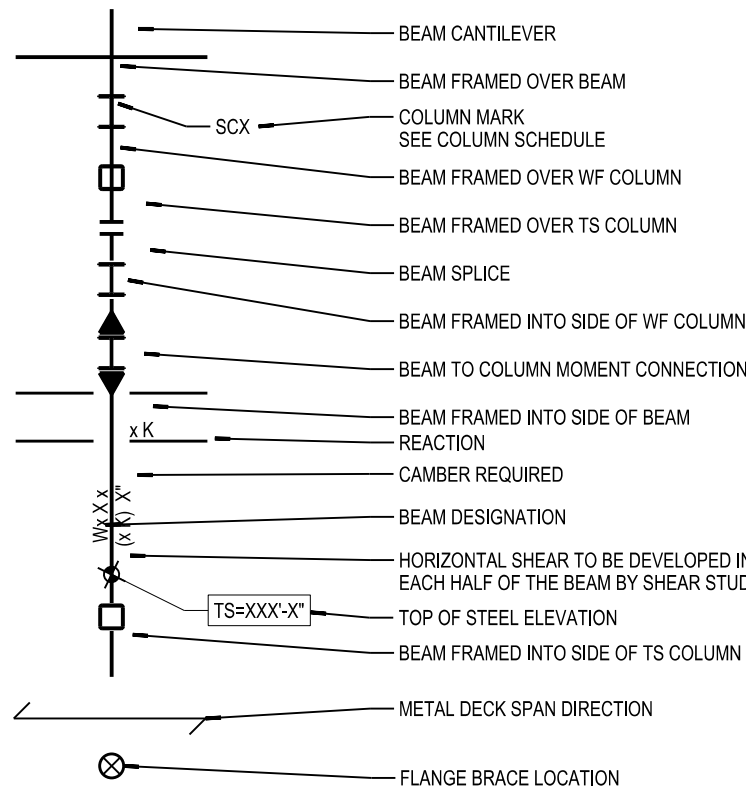
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SCALE: 1/8"=1'-0"
PLOTTED BY: Adamt

ORIGINAL SIZE = 24" x 36"
X:\6453\cam\464536\S201.dgn



STEEL FRAMING SYMBOL LEGEND



NOTE: ALL SYMBOLS MAY NOT BE USED IN THIS SET.

MEZZANINE FRAMING PLAN TIERS AND PLATFORM FRAMING PLAN

SCALE: 1/8"=1'-0"

MEZZANINE METAL FORM DECK NOTES

1. METAL FORM DECK SHALL BE 1" DEEP x 24 GAUGE NON-COMPOSITE STEEL GALVANIZED UNLESS NOTED OTHERWISE.
2. STRUCTURAL FASTENERS SHALL BE #12 TEK SCREWS BY ITW-BULDEX.
3. STITCH FASTENERS SHALL BE #10 TEK SCREWS BY ITW-BULDEX.
4. ATTACH STRUCTURAL FASTENERS IN A 3/4" PATTERN.
5. (2) STITCH FASTENERS SHALL BE USED PER SPAN WITH EQUAL SPACINGS.
6. DECK PERIMETER FASTENERS AT STRUCTURAL SUPPORTS SHALL BE ATTACHED WITH STRUCTURAL FASTENER PATTERN.
7. DECK PERIMETER FASTENERS NOT AT STRUCTURAL SUPPORTS SHALL BE ATTACHED WITH STITCH FASTENER PATTERN.
8. ALL THROUGH FLOOR PENETRATIONS OVER 6" IN SIZE SHALL HAVE SUPPORT FRAMING UNDER DECK. VERIFY SIZE AND LOCATION AT ALL PENETRATIONS WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS.

MEZZANINE STEEL STUD WALL NOTES

1. ANCHOR WALL BOTTOM TRACK AT 2'-8" O.C.
2. DOUBLE STUD BOTH SIDES OF ALL DOORS AND WALL PENETRATIONS TO FLOOR BEARING HEIGHT UNLESS NOTED OTHERWISE.
3. DOUBLE STUD AT THE CORNERS OF ALL BEARING WALLS AND ANCHOR WITH CONCRETE EMBEDMENT HOLDDOWN ANCHORS.
4. STUDS IN BEARING WALLS SHALL BE 3/8"x1.58" FLANGE x 18GA. 33 KSI STUDS AT 16" O.C.
5. BY CLARK DIERICH BUILDING SYSTEMS UNLESS NOTED OTHERWISE.
6. L2 UNTEL SHALL BE (2) 8"x1.58" FLANGE x 16 GA. 33 KSI DOUBLE MEMBER HEADER.
7. STRAP BRACING SHALL BE 2"x16 GA. STRAPS.

MEZZANINE STEEL FLOOR FRAMING NOTES

1. FINISHED FLOOR ELEVATION = 108'-11" UNLESS NOTED OTHERWISE.
2. FLOOR = 2" NORMAL WEIGHT CONCRETE REINFORCED WITH WITH 6x6-W2.5W2.9 WWR OVER 2" STEEL DECK (TOTAL DEPTH = 9").
3. JOIST BRIDGING SHALL BE AS RECOMMENDED BY THE JOIST MANUFACTURER AND AS SHOWN UNLESS NOTED OTHERWISE.

MASONRY WALL NOTES

1. BOND BEAMS SHALL HAVE (2)#6 BARS CONTINUOUS UNLESS NOTED OTHERWISE.
2. WALLS SHALL BE REINFORCED WITH #4 VERTICAL BARS AT 4'-0" O.C. UNLESS NOTED OTHERWISE.
3. MASONRY WALLS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
4. L3 UNTEL SHALL BE 8x16 BOND BEAM WITH (2) #6 BARS.
5. TOP OF MASONRY NON-BEARING WALL SHALL BE CONNECTED TO EXISTING ROOF STRUCTURE PER DETAIL 16/S801.

GENERAL NOTES

1. SC1 COLUMN SHALL BE 3" DIA. STD STEEL PIPE WITH 5/8"x8"x8" BOTTOM PLATE AND 3/8"x5"x8" CAP PLATE SEE DETAIL 04/S801.
2. SC2 COLUMN SHALL BE HSS4x4x1/4 STEEL TUBE WITH 3/4"x10"x10" BOTTOM PLATE AND 1/4"x4"x4" CAP PLATE SEE DETAIL 05/S801.
3. BEAM TO COLUMN CONNECTIONS SHALL BE PER DETAIL 03/S801.
4. BEAM TO BEAM CONNECTIONS SHALL BE PER DETAIL 03/S801.

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MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3

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CITY OF MADISON
PROJECT #53W1393, CONTRACT #6457

PROJECT NUMBER
46453

APPROVED BY

REVIEWED BY

DRAWN BY
GMS

7/12/2012 11:06:05 PM

PHASE 3
MEZZANINE FRAMING PLAN
TIERS AND PLATFORM
FRAMING PLAN

S201

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- THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS ARISING FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED.

- DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO WORK AND PROJECT LOCATION.
- BUILDING ANALYSIS AND DESIGN WERE AND SHALL BE BASED ON THE STATE OF **MISSISSIPPI** BUILDING CODE AS AMENDED TO DATE.
- EDITION AND DATE OF REFERENCED STANDARDS SHALL BE AS LISTED IN THE BUILDING CODE.
- DESIGN AND FABRICATION OF WELDS SHALL BE IN ACCORDANCE WITH THE AISC STRUCTURAL WELDING CODE AND THE AISC MANUAL OF STANDARD PRACTICE.
- DESIGN, FABRICATION, AND ERECTION OF COLD FORMED STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISI DESIGN SPECIFICATIONS AND MANUAL OF STANDARD PRACTICE.
- DESIGN, FABRICATION, AND ERECTION OF STEEL DECK SHALL BE IN ACCORDANCE WITH THE S.D.I. DESIGN SPECIFICATIONS AND MANUAL OF STANDARD PRACTICE.
- DESIGN, FABRICATION, AND ERECTION OF HOT FORMED STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISI DESIGN SPECIFICATIONS AND MANUAL OF STANDARD PRACTICE.
- DESIGN, FABRICATION, AND ERECTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ACI 318 ("BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES").
- DESIGN, FABRICATION, AND ERECTION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 ("BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE").

- THE LATERAL SUPPORT SYSTEM INCORPORATES A FLOOR DIAPHRAGM.
- STRUCTURAL COMPONENTS SHALL BE DESIGNED INCLUDING THE WEIGHT OF ALL SPRINKLER MAINS WHEN FILLED.
- FOOTINGS WERE DESIGNED USING A NET SOIL BEARING CAPACITY OF 2000 PSF.
- THE DESIGN SOIL BEARING CAPACITY WAS BASED ON PRESUMPTIVE VALUES AND SHALL BE CONFIRMED BEFORE OR DURING CONSTRUCTION.

GENERAL

- DESIGN DRAWINGS SHOW THE INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTIONS IS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN.
- THE FOLLOWING NOTES APPLY TO THE PLANS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICT WITH PLANS AND/OR SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EACH DRAWING AND DETAIL CONTAINED IN THE DRAWING SET AND REPORT ANY ERRORS, OMISSIONS, DISCREPANCIES, OR DETAILS NOT REFERENCED FOR INSTRUCTIONS FROM THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE EXISTING CONDITIONS, DIMENSIONS, AND CONSTRUCTION IN PROGRESS WITH THE SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS PRIOR TO SUBMITTAL. ORDERING ANY MATERIAL, OR COMMENCEMENT OF ANY WORK, ALL DIMENSIONAL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE WITH ALL CONTRACTORS THE SIZE AND LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APERTURES AND OPENINGS.
- CONSTRUCTION PRACTICE, MEANS AND METHODS, AND JOBSITE SAFETY SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS TO COORDINATE ALL MISCELLANEOUS WORK PROVIDED FOR OTHER DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DIVISION OF MATERIALS AND LABOR FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) AND ALL FEDERAL, STATE AND LOCAL BUILDING CODES AND ZONING ORDINANCES AS THEY PERTAIN TO THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SUPPORTS, SHORING, ETC., UNTIL PERMANENT BRACING AND SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL. THE DESIGN ADEQUACY, AND SAFETY OF TEMPORARY BRACING, SUPPORTS, SHORING ETC., SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTED DURING CONSTRUCTION. INVESTIGATION OF THE FRAMING AND CONNECTIONS FOR ADEQUACY DURING CONSTRUCTION SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REROUTED EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING WORK NOT OTHERWISE INDICATED TO FACILITATE NEW CONSTRUCTION AND SHALL SUBMIT PLANS FOR APPROVAL INDICATING EXISTING AND REROUTED LOCATIONS.
- SUBSTITUTIONS FOR PROPRIETARY STRUCTURAL PRODUCTS DESIGNED NOT IN THE DRAWINGS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY INFORMATION USED TO DETERMINE ADEQUACY OF PROPOSED SUBSTITUTIONS INCLUDING STRUCTURAL CALCULATIONS IF NECESSARY.
- SHOP DRAWINGS INCLUDING BOTH ERECTION AND PRODUCTION DRAWINGS SHALL BE COMPLETED PRIOR TO THE START OF FABRICATION.

EARTHWORK

- CONTRACTOR SHALL OBTAIN PERMISSION FROM THE LOCAL GOVERNMENT TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINATE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER.
- IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL, COMPACTED FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- COMPACT ALL SUBGRADE BELOW FOOTINGS PRIOR TO CONCRETE PLACEMENT.
- HOLES, TRENCHES, OR DISTURBANCES IN THE SOIL SHALL NOT BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINE SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- DO NOT PLACE UNDERGROUND UTILITIES OR PIPES BELOW FOOTINGS WITHOUT CONSULTING THE DESIGN PROFESSIONAL BEFORE PROCEEDING.
- COMPACT ALL SUBGRADE MATERIAL PRIOR TO PLACEMENT OF ANY FILL. REMOVE LOOSE MATERIAL AND DEBRIS THAT CANNOT BE ADEQUATELY COMPACTED.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 301("SPECIFICATIONS FOR STRUCTURAL CONCRETE"), ACI 308("HOT WEATHER CONCRETING"), AND ACI 309("COLD WEATHER CONCRETING"). CONCRETE DETAILING SHALL CONFORM TO ACI SP-08("ACI DETAILING MANUAL").
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE REINFORCEMENT.
- A CERTIFIED TESTING AGENCY ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ON ALL CONCRETE PROPERTIES.
- CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, BUILDING INSPECTOR, AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE.
- SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR AT COLUMN/CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UN-JOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE 15'-0".
- SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE:
 - EXTERIOR SLABS - BROOM FINISH
 - INTERIOR SLABS - TROWEL FINISH
 - SLABS TO RECEIVE BODIED TOPPOINGS - SCRATCH FINISH
 - SLABS TO RECEIVE TILE BY THIN OR THICK SET METHOD - FINE BROOM FINISH
- SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE.
- SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISCLOSED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING. WITHIN 16 HOURS MAXIMUM OF THE FINAL CASTING OPERATION.

- FOOTINGS SHALL BE CENTERED BELOW WALLS. PIERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE.
- DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL.
- SLABS SHALL HAVE #4 BARS DIAGONALLY AT A INSIDE CORNERS OF WALLS, PIERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER.
- COORDINATE AND VERIFY SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, CHASES, CONDUITS, DEPRESSIONED AREAS, FLOOR FINISHES, FILLS, ANCHORS, STONE AND MASONRY INSERTS, HANGERS, CURBS, AND OTHER MISCELLANEOUS ITEMS BEFORE PLACING CONCRETE.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH CONCRETE PORTION TESTED.

MASONRY

- MASONRY WORK SHALL CONFORM TO AC 530.1(A) SPEC/617MS 602 ("SPECIFICATION FOR MASONRY STRUCTURES") INCLUDING BUT NOT LIMITED TO THE HOT AND COLD WEATHER REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE MASONRY REINFORCEMENT.
- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIERCOLUMN REINFORCING.
- CONCRETE MASONRY WALLS SHALL BE REINFORCED WITH WIRE IN HORIZONTAL JOINT AT 1' O.C. VERTICALLY FOR EXTERIOR WALLS AND 24" O.C. VERTICALLY FOR INTERIOR WALLS. USE GALVANIZED NO. 9 GAGE TRUSS TYPE JOINT REINFORCEMENT AS A MINIMUM. SEE DRAWINGS FOR ADDITIONAL REINFORCEMENT.
- MASONRY SHALL BE ANCHORED TO SUPPORTING BEAMS AND COLUMNS.
- BARS SPLICES SHALL BE LAPPED 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- PROVIDE BOND BEAM CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 48 BAR DIAMETERS IN LENGTH EACH WAY.
- PROVIDE BOND BEAM INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 48 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL.
- PROVIDE STANDARD HOOK AT ENDS OF BARS IN BOND BEAMS.
- ALL REINFORCING SHALL BE SUPPORTED BY ACCESSORIES TO PROPERLY LOCATE AND STABILIZE REINFORCING FROM TO GROUT PLACEMENT.
- VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS CELL, NOT LESS THAN 3" x 4" AND FACE SHELLS AND WEBS SHALL BE FULLY BEDDED TO PREVENT LEAKAGE OF GROUT.

- CLEANOUT OPENINGS FOR INSPECTION SHALL BE PROVIDED PRIOR TO GROUTING IF LIFT EXCEEDS FOUR FEET. THE GROUTING SHALL BE COMPLETED IN FOUR FOOT LIFTS AND VIBRATED. WAIT 15 TO 60 MINUTES BEFORE POURING NEXT FOUR FOOT LIFTS AND VIBRATING 12" TO 18" INTO PRECEDING LIFT.
 - CONTROL JOINTS IN MASONRY WALLS TO BE LOCATED AT:
 - A) MAXIMUM OF 20'-0" FROM CORNERS
 - B) MAXIMUM OF 40'-0" ON CENTER
 - C) CHANGES IN WALL HEIGHT OR THICKNESS
 - D) CHASES AND RECESSES FOR PIPING, COLUMNS, AND FIXTURES
 - E) ABUTMENT OF WALLS TO COLUMNS
 - PROVIDE (1) FULL HEIGHT #5 VERTICAL BAR AT ALL DOOR JAMBS, WINDOW JAMBS, MECHANICAL OPENINGS, CONTROL JOINTS, OR OTHER MASONRY DISCONTINUITES. BAR SHALL BE CONTINUOUS WITHOUT INTERFERING WITH LINTEL BEARING. FULLY GROUT REINFORCED CELL.
 - REINFORCE AND FULLY GROUT CELLS MINIMUM 16" WIDE BY FULL HEIGHT WITH (1) #5 VERTICAL BAR IN EACH CELL WHERE STRUCTURAL MEMBERS BEAR ON CONCRETE MASONRY UNLESS NOTED OTHERWISE.
- IN MASONRY WALLS, NO CHASE, RISER, CONDUIT OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 1'-6" OF BEARING OR LOAD CONNECTION.
- BEAMS AND LINTELS HAVE MINIMUM 8" BEARING LENGTH AT EACH END.
 - PROVIDE 3/8" BEARING PLATES WITH (2) 3/8" DIAMETER X 4" HEADED STUD ANCHORS FOR BEAMS AND JOISTS BEARING ON MASONRY UNLESS NOTED OTHERWISE.
 - BOND BEAMS, PLASTERS, AND ANY CELLS CONTAINING EMBEDMENT, REINFORCING STEEL, ANCHORS, ETC. SHALL BE FULLY GROUTED. PLACE REINFORCING BEFORE GROUTING.
 - BOND BEAMS SHALL BE REINFORCED WITH (2) #5 BARS MINIMUM UNLESS NOTED OTHERWISE.
 - EXTEND NON-BEARING WALLS TO WITHIN 2" OF FLOOR ABOVE. PROVIDE LATERAL SUPPORT OF WALL AT INTERMEDIATE SUPPORTS TO RESIST A HORIZONTAL FORCE OF 200 LBS/FT ACTING PERPENDICULAR TO THE WALL. SUBMIT DETAILS TO THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.
 - DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE

STRUCTURAL STEEL

- ALL STEEL SHALL BE A36 PRE-QUALIFIED, MADE WITH A 6700X ELECTRODE, AND SHALL BE PERFORMED BY WELDERS, AWS CERTIFIED FOR WELDS MADE.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE STRUCTURAL STEEL.
- COLUMN BASE PLATES WITH OVERSIZE HOLES SHALL HAVE PLATE WASHERS PROVIDED WITH ANCHOR BOLTS.
- ALL BEAM TO COLUMN FLANGE CONNECTIONS ARE TO CONFORM TO AISC SINGLE PLATE SHEAR CONNECTIONS UNLESS NOTED OTHERWISE - SEE SINGLE PLATE SCHEDULE
- ALL BEAM TO COLUMN WEB CONNECTIONS ARE TO CONFORM TO AISC DOUBLE ANGLE SHEAR CONNECTIONS UNLESS NOTED OTHERWISE
- THE MINIMUM END CONNECTION OF ANY MEMBER SHALL BE MADE WITH TWO (2) A325 3/4" DIAMETER BOLTS OR EQUIVALENT WELD UNLESS NOTED OTHERWISE
- CLEAN, PREPARE, AND SHOP PRIME STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH S.S.P.C. STANDARDS SP-1 AND SP-6.
- ALL STEEL REMAINING EXPOSED TO VIEW SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE SECTION PERTAINING TO ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, WITHOUT GAPS OR OPEN JOINTS

STEEL DECK

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE STEEL DECK.
- DECK END LAPS SHALL BE 3-INCH MINIMUM AND SHALL OCCUR AT SUPPORTS.
- PROVIDE DECK CLOSURE CHANNELS AT PERIMETER OF ALL DECK PENETRATIONS INCLUDING H/V A/C AND ROOF DRAIN SUMP PANS

- ROLLED IN HANGER TABS ARE NOT PERMITTED IN STEEL DECK.
- WELD LIGHT GAGE STEEL POUR STOPS TO BEAMS AND/OR JOISTS

LIGHTGAGE METAL FRAMING

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE LIGHTGAGE METAL FRAMING.
- SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- STUDS, TRACK AND ACCESSORIES SHALL BE GALVANIZED.
- LIGHT GAGE FRAMING MEMBERS SHOWN ON PLANS AND DETAILS ARE SCHEMATIC AND ARE SHOWN FOR INTENT ONLY.
- PLUMB, ALIGN, AND SECURELY ATTACH STUD FLANGES OR WEBBS TO LOWER TRACK.
- ATTACH BRIDGING TO STUDS PRIOR TO APPLICATION OF VERTICAL LOADS.
- STUDS NOT BRIDGELY SUPPORTING LOADS SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
- FOR 18 GAUGE AND THINNER FRAMING CONNECTIONS SHALL BE MADE USING SELF-DRILLING SELF-TAPPING SCREWS. FOR THICKER SECTION WELDED OR BOLTED CONNECTIONS MAY ALSO BE USED.
- CONTRACTOR SHALL SUBMIT THE MANUFACTURERS CATALOG FOR LIGHTGAGE METAL FRAMING USED VERIFYING MEMBER PROPERTIES.

MISCELLANEOUS

- PROVISIONS SHALL BE TAKEN TO ASSURE NON-STRUCTURAL COMPONENTS ARE NOT DISTORTED OR DAMAGED BY DEFLECTION OF THE STRUCTURE. INCLUDE DEFLECTION TRAC AT ALL INTERIOR NON-LOAD BEARING STUD WALLS.
- ADHESIVE ANCHORS SHALL BE SIMPSON STRONG TIE ACRYLIC LITE ADHESIVE UNLESS NOTED OTHERWISE OR APPROVED BY THE DESIGN PROFESSIONAL.
- EXPANSION ANCHORS SHALL BE SIMPSON STRONG TIE THE STRONG-BOLT UNLESS NOTED OTHERWISE OR APPROVED BY THE DESIGN PROFESSIONAL.
- SLEEVE ANCHORS SHALL BE SIMPSON STRONG TIE SLEEVE-ALL UNLESS NOTED OTHERWISE OR APPROVED BY THE DESIGN PROFESSIONAL.
- STAIR LANDINGS FOR STEEL RAN STAIRS SHALL BE FRAMED WITH 14" STEEL PLATE OVER C4x5.4 UNLESS NOTED OTHERWISE

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MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3

CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457

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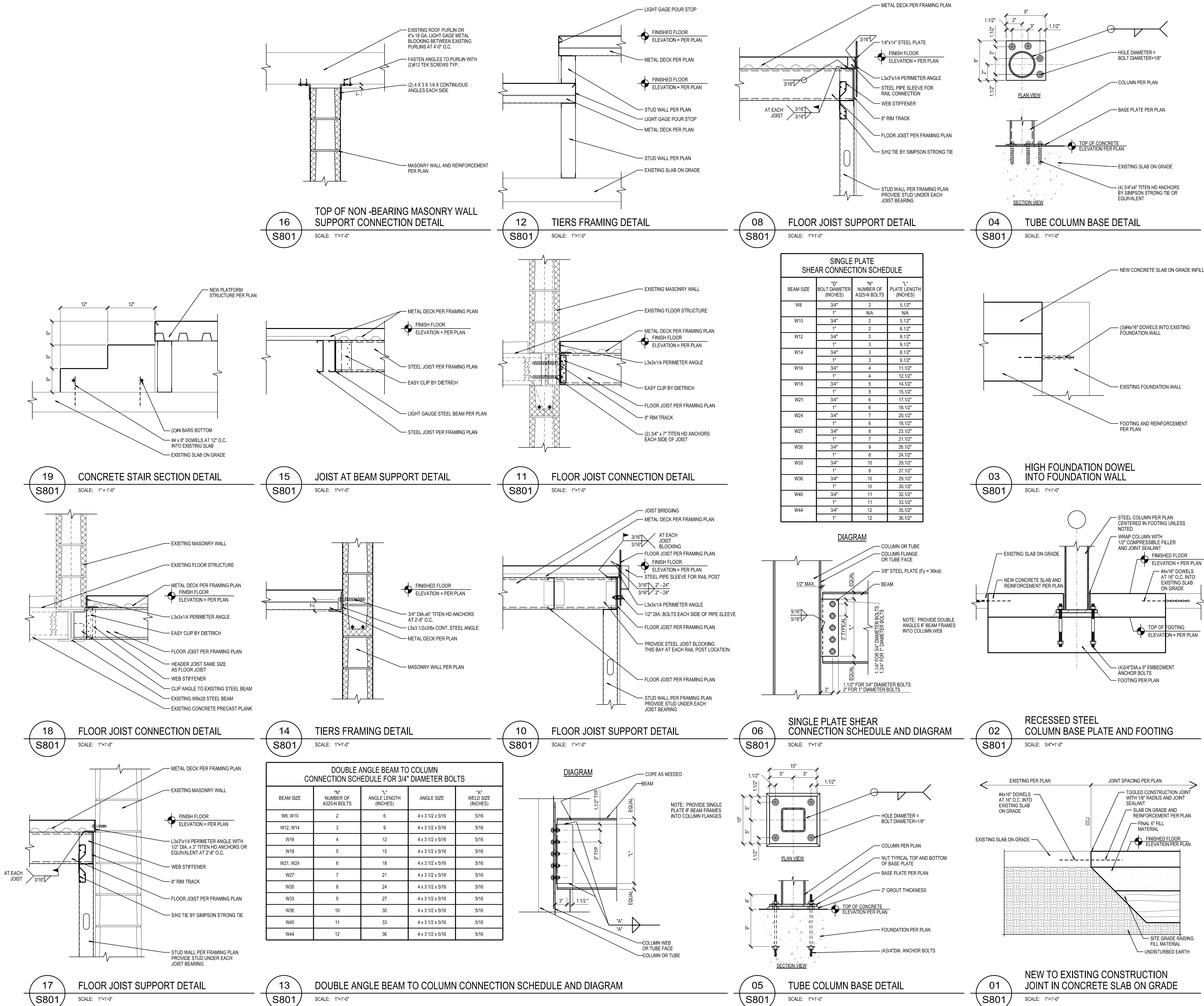
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PHASE 3
STRUCTURAL NOTES

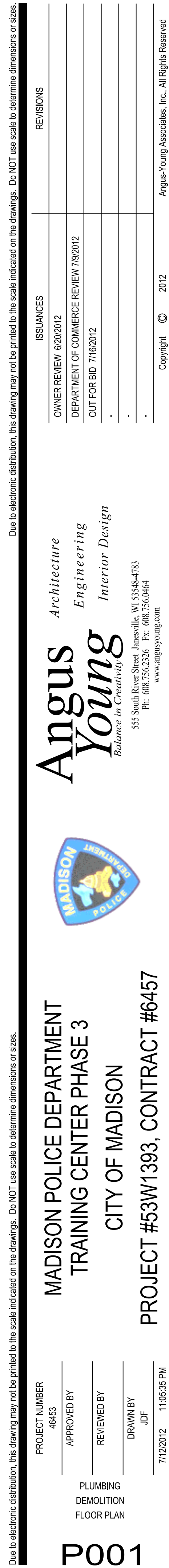
S301

SCALE: 1/8"=1'-0"
PLOTTED BY: Admin

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ORIGINAL SIZE = 24" x 36"
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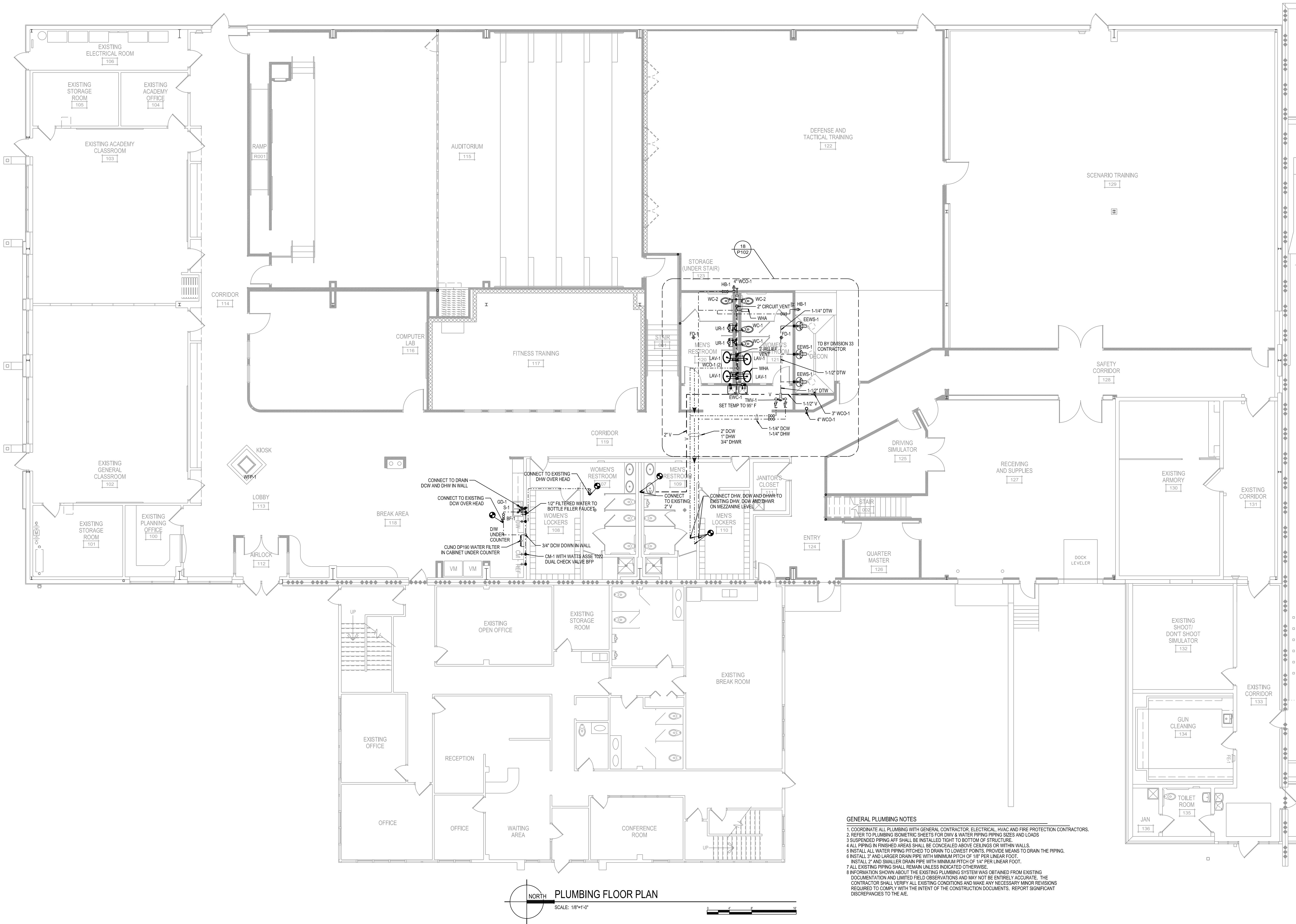




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SCALE: 1/8"=1'-0"
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ORIGINAL SIZE = 24" x 36"
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DEPARTMENT OF COMMERCE REVIEW	7/9/2012	
OUT FOR BID	7/18/2012	

MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3



CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457

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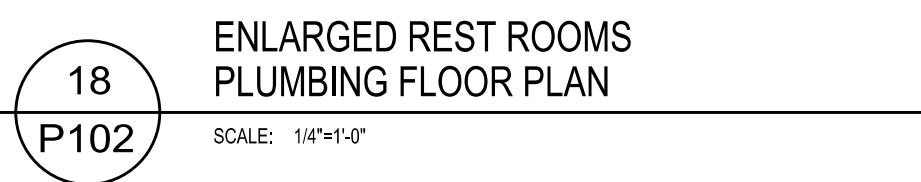
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PROJECT NUMBER	46453
APPROVED BY	
REVIEWED BY	
DRAWN BY	JDF
DATE	7/12/2012 11:05:45 PM
PLUMBING FLOOR PLAN	

P101

SCALE: 1/8"=1'-0"

PLOTTED BY: AdamH



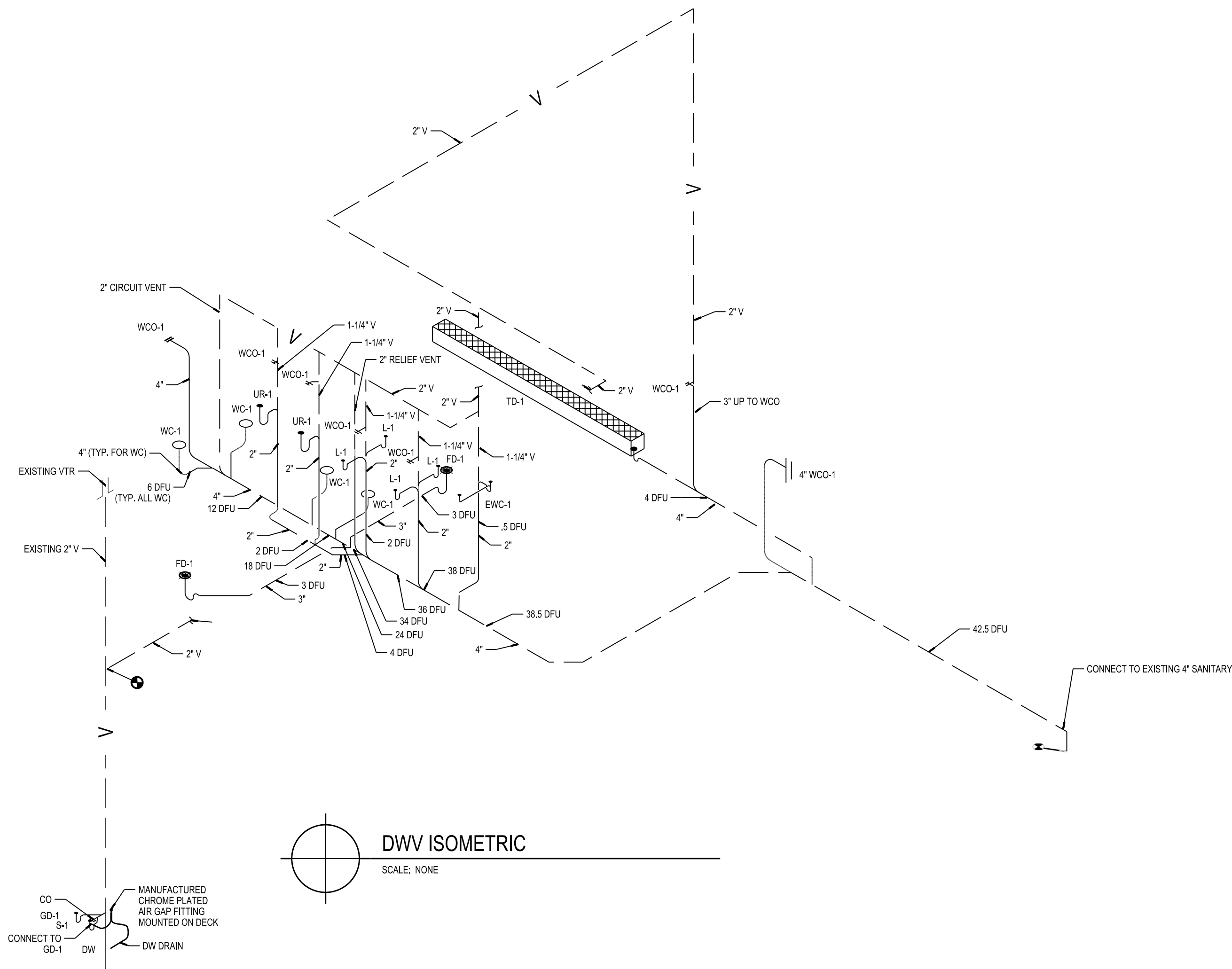
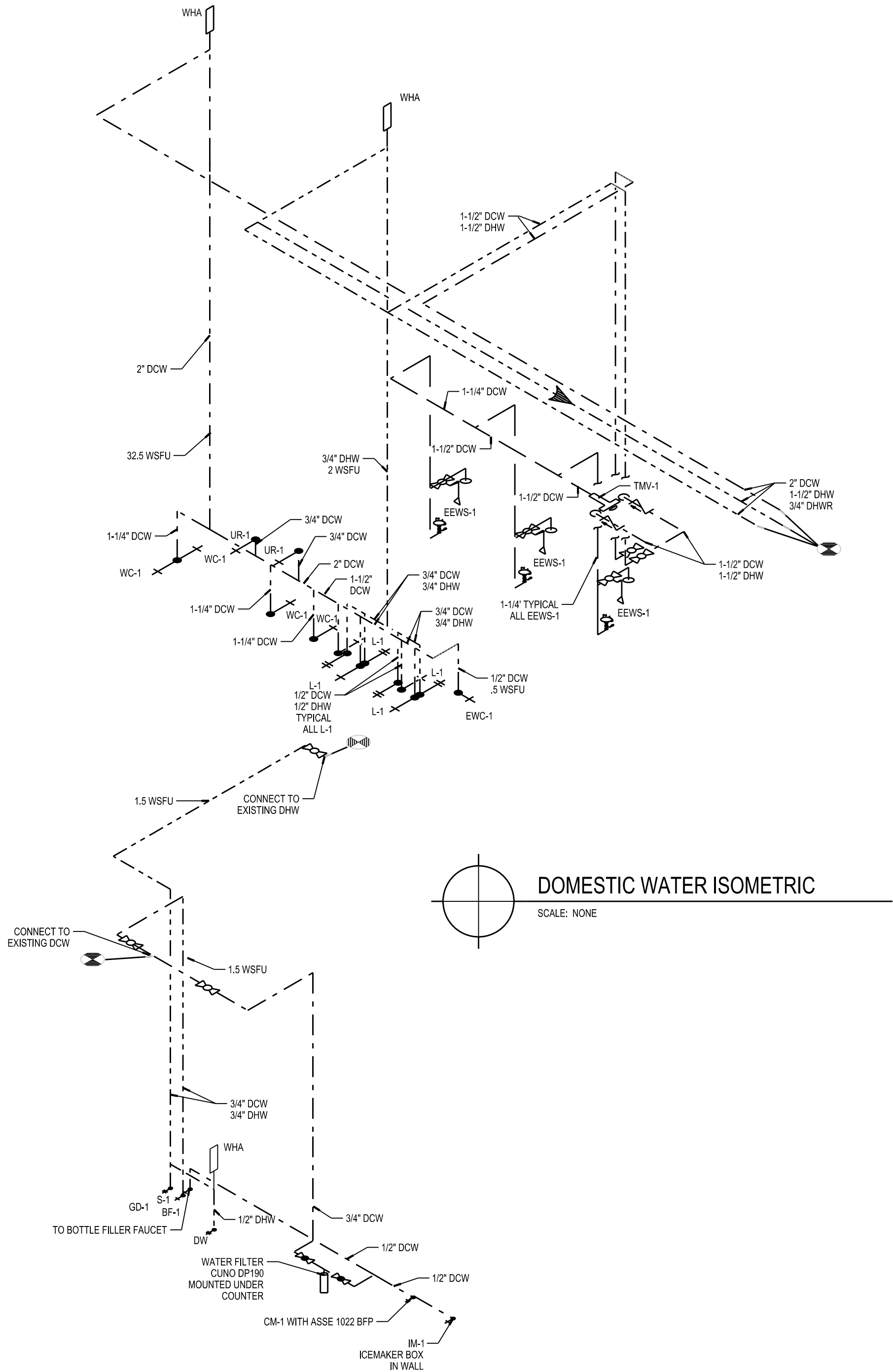
ISSUANCES	REVISIONS
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PROJECT #53W1393, CONTRACT #6457

P102

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- GENERAL PLUMBING NOTES
1. COORDINATE ALL PLUMBING WITH GENERAL CONTRACTOR, ELECTRICAL, HVAC AND FIRE PROTECTION CONTRACTORS.
 2. REFER TO PLUMBING ISOMETRIC SHEETS FOR DWV & WATER PIPING PIPING SIZES AND LOADS
 3. SUSPENDED PIPING AFF SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURE.
 4. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALLS.
 5. INSTALL ALL WATER PIPING PITCHED TO DRAIN TO LOWEST POINTS. PROVIDE MEANS TO DRAIN THE PIPING.
 6. INSTALL 3" AND LARGER DRAIN PIPE WITH MINIMUM PITCH OF 1/8" PER LINEAR FOOT. INSTALL 2" AND SMALLER DRAIN PIPE WITH MINIMUM PITCH OF 1/4" PER LINEAR FOOT.
 7. ALL EXISTING PIPING SHALL REMAIN UNLESS INDICATED OTHERWISE.
 8. INFORMATION SHOWN ABOUT THE EXISTING PLUMBING SYSTEM WAS OBTAINED FROM EXISTING DOCUMENTATION AND LIMITED FIELD OBSERVATIONS AND MAY NOT BE ENTIRELY ACCURATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MAKE ANY NECESSARY MINOR REVISIONS REQUIRED TO COMPLY WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. REPORT SIGNIFICANT DISCREPANCIES TO THE A/E.

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MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3

CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457



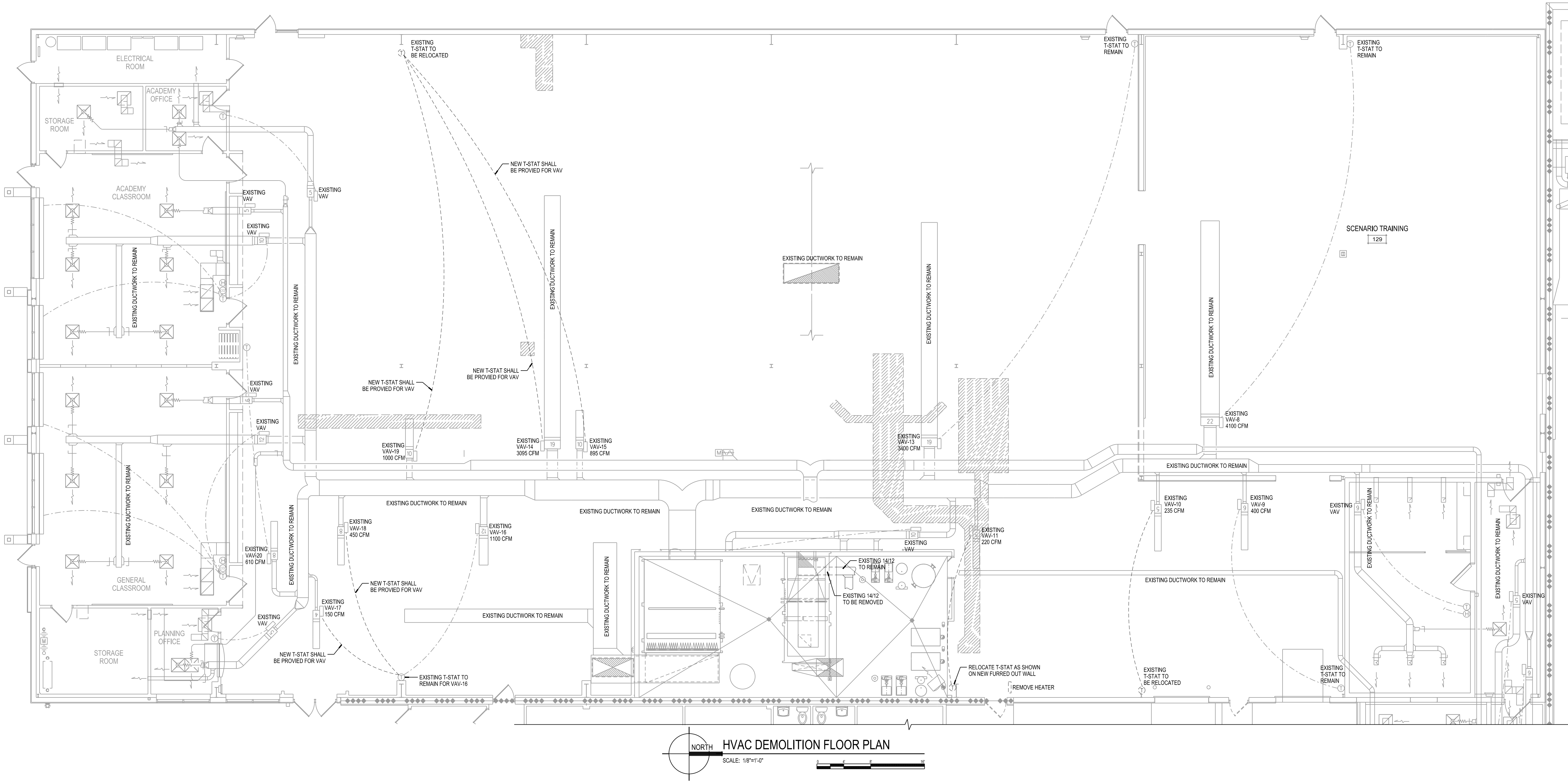
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PLUMBING
ISOMETRICS

P301



- GENERAL NOTES
- ALL HATCHED ITEMS TO BE REMOVED
 - INFORMATION SHOWN ABOUT EXISTING MECHANICAL SYSTEMS WAS OBTAINED FROM EXISTING DOCUMENTATION AND LIMITED FIELD OBSERVATIONS AND MAY NOT BE ENTIRELY ACCURATE. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND MAKE ANY NECESSARY MINOR REVISIONS REQUIRED TO COMPLY WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. REPORT SIGNIFICANT DISCREPANCIES TO THE ARCHITECT/ENGINEER.

PROJECT NUMBER 46453	PHASE 3 HVAC DEMOLITION PLAN
APPROVED BY	
REVIEWED BY	
DRAWN BY EPL	
7/12/2012 11:05:06 PM	

M001

MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3
CITY OF MADISON
PROJECT #53W1393, CONTRACT #6457



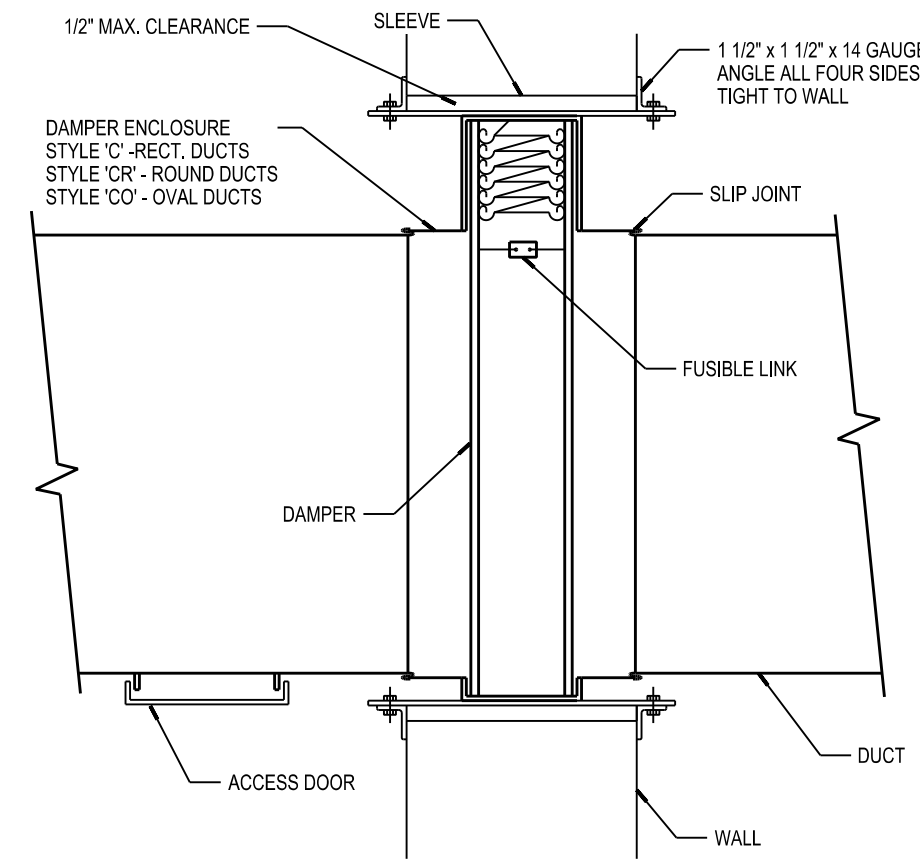
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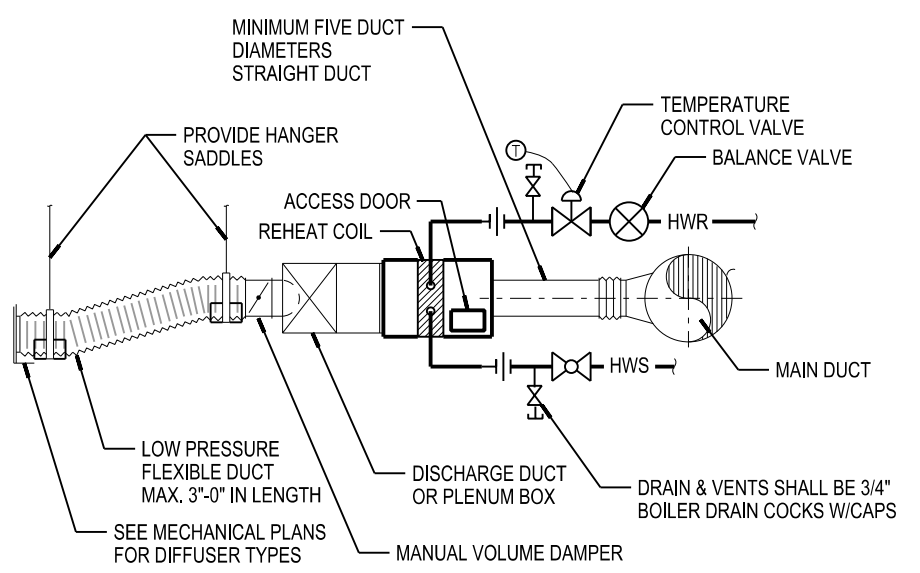
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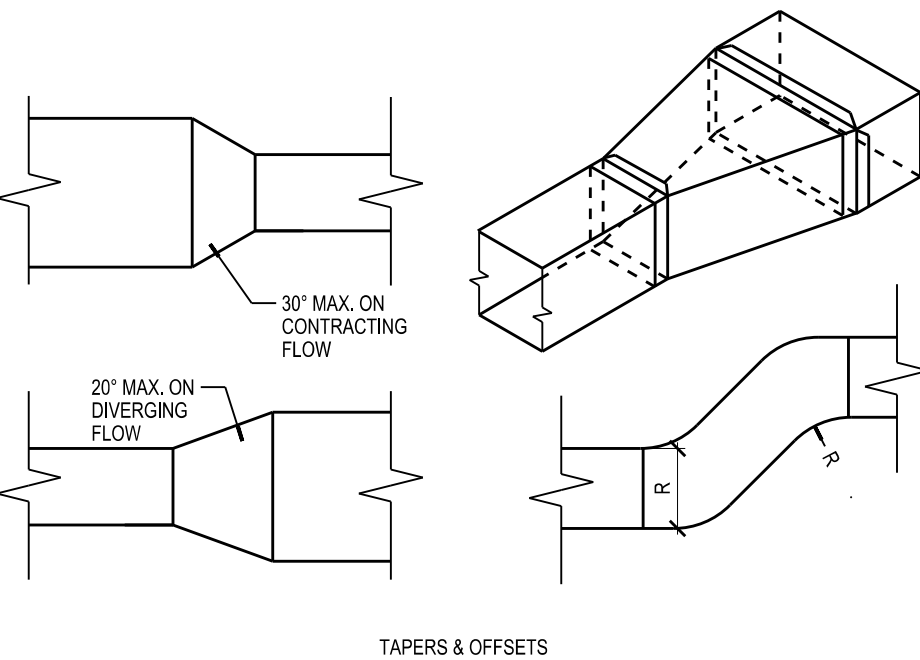
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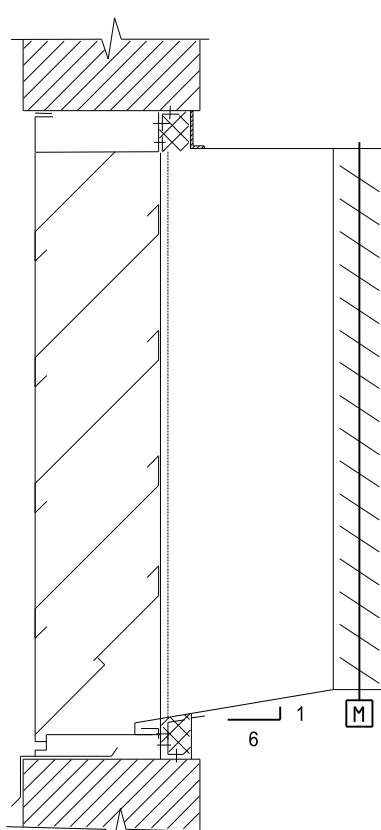
24 FIRE DAMPER DETAIL
M201 SCALE: NONE



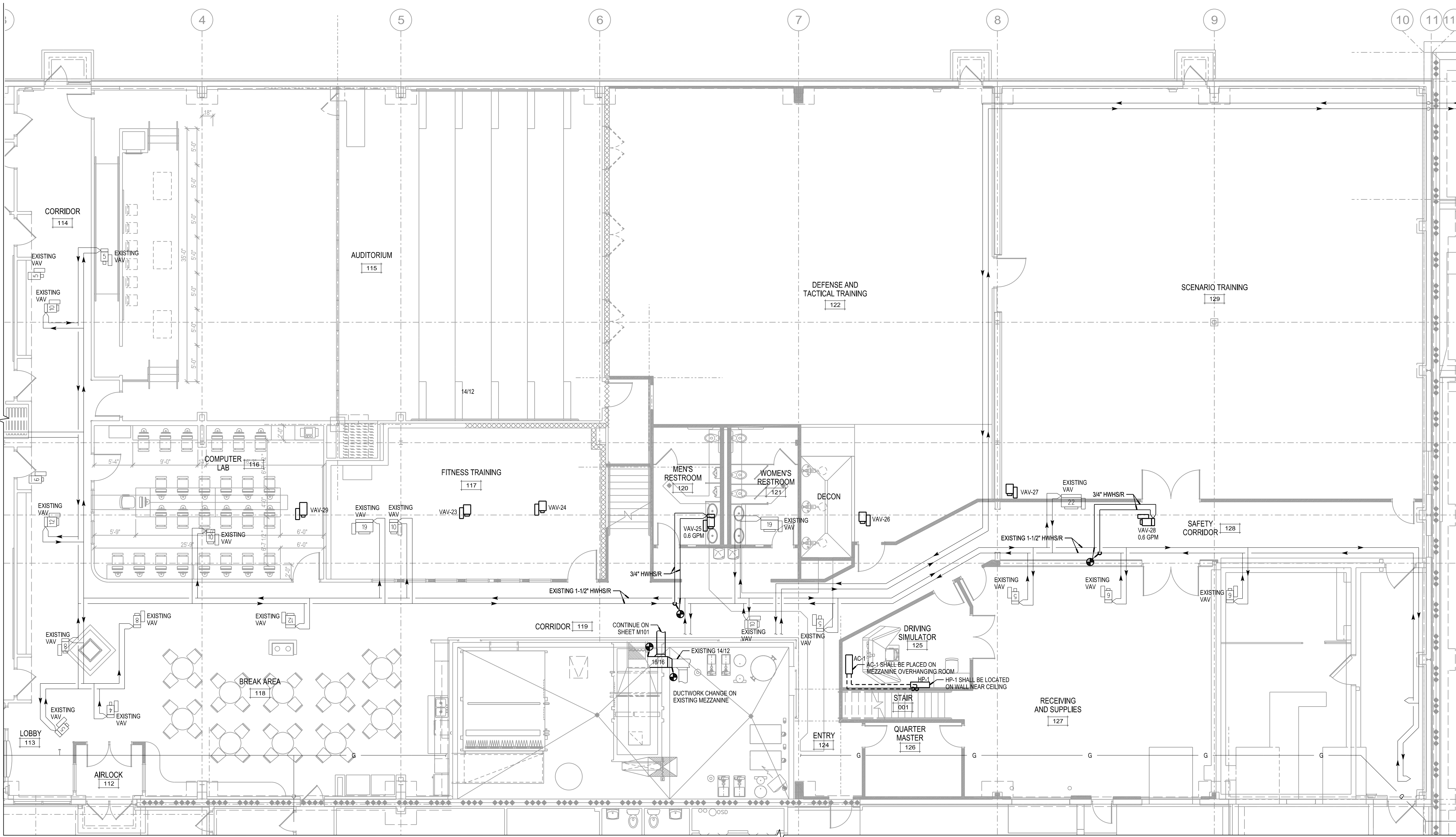
23 VAV BOX WITH REHEAT COILS
M201 SCALE: NONE



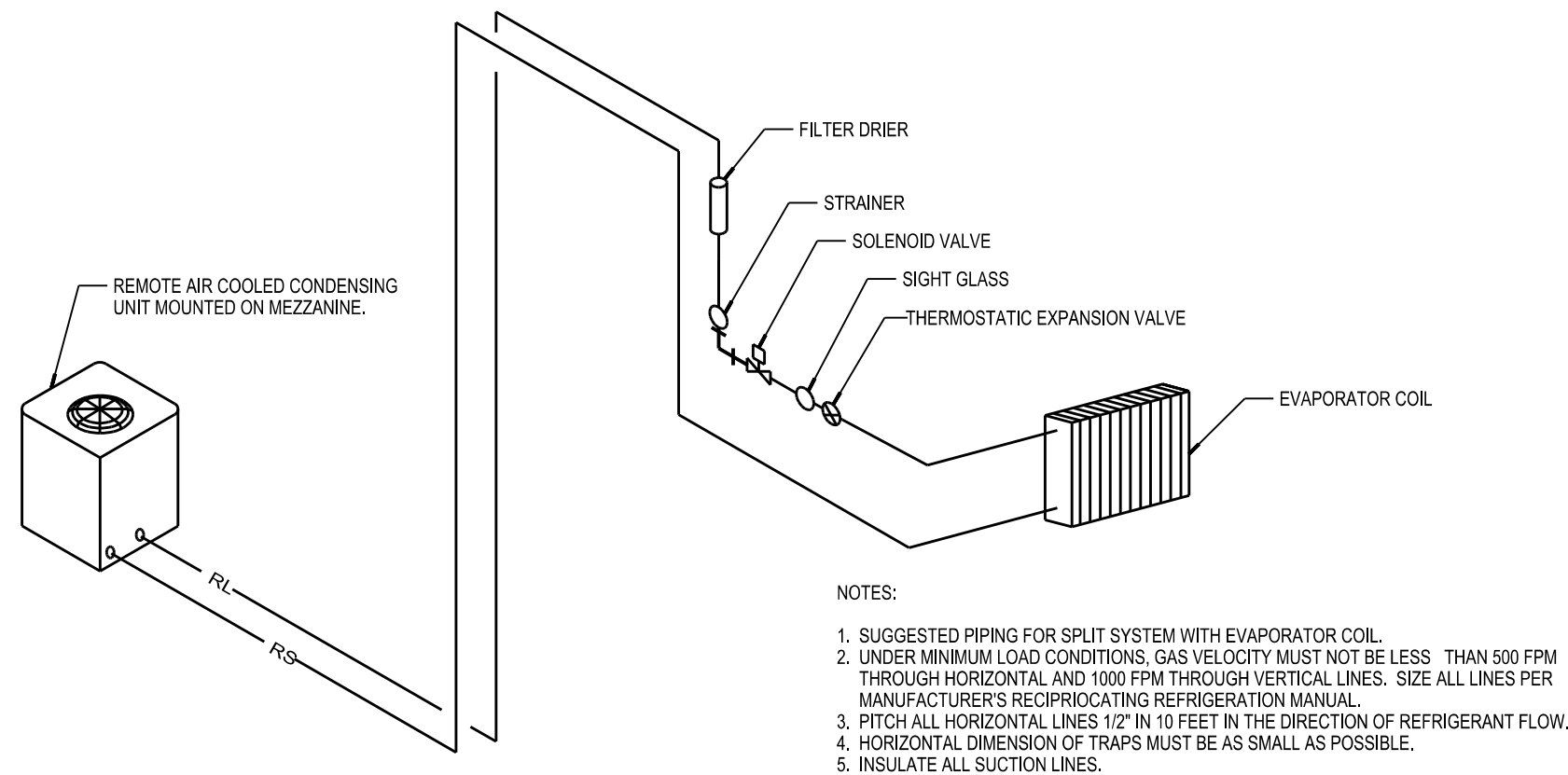
22 LOW VELOCITY DUCTWORK
M201 SCALE: NONE



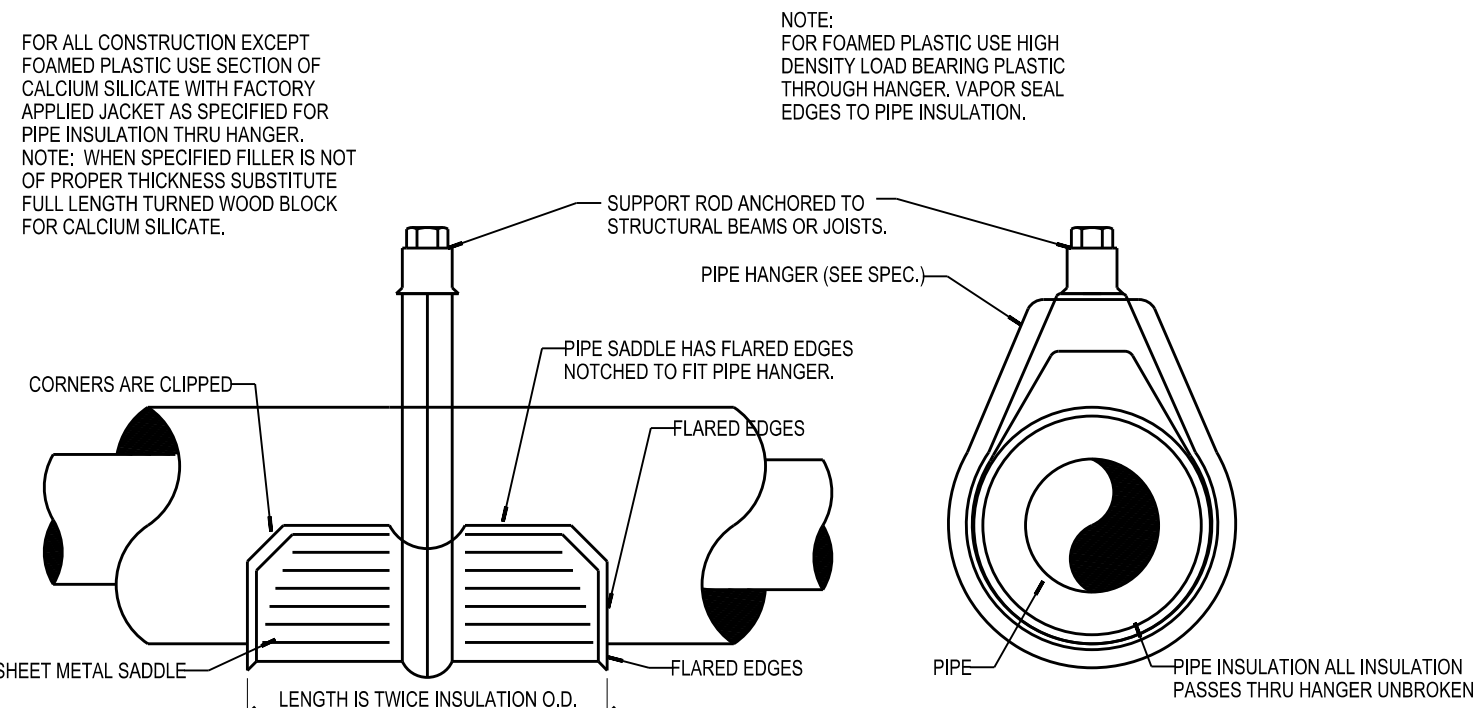
21 LOUVER INSTALLATION DETAIL
M201 SCALE: NONE



NORTH HVAC FLOOR PLAN
SCALE: 1/8\"/>



17 REFRIGERANT PIPING DETAIL
M201 SCALE: NONE



09 CLEVIS PIPE HANGER DETAIL
M201 SCALE: NONE

- GENERAL NOTES
1. ACTUAL LOCATION OF GRILLES AND DIFFUSERS SHALL BE COORDINATED WITH REFLECTED CEILING PLAN. IF THERE ARE ANY DISCREPANCIES VERIFY FINAL LOCATION WITH ARCHITECT/ENGINEER.
 2. PAINT INTERIOR OF DUCT AT RETURN GRILLE FLAT BLACK.
 3. INSTALL THERMOSTATS/SENSORS NEXT TO AND AT SAME HEIGHT AS LIGHT SWITCHES, UNLESS NOTED OTHERWISE.
 4. CONTRACTOR SHALL FIELD VERIFY VAV BOX CONDITIONS PRIOR TO FABRICATION AND CONNECTION OF HYDRONIC AND DUCTWORK COMPONENTS.
 5. ALL RETURN AIR GRILLES SHALL HAVE RETURN AIR PLENUM ATTACHED AS SHOWN IN DETAIL 10/M101.
 6. COORDINATE DUCT ELEVATION WITH CABLE TRAY LOCATIONS.
 7. T-STAT CONDUIT AND BOXES INSTALLED BY ELECTRICAL CONTRACTOR TO ABOVE CEILING.

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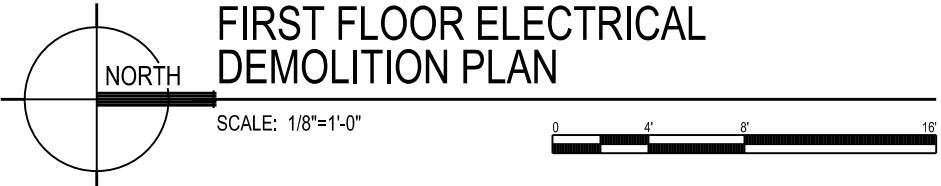
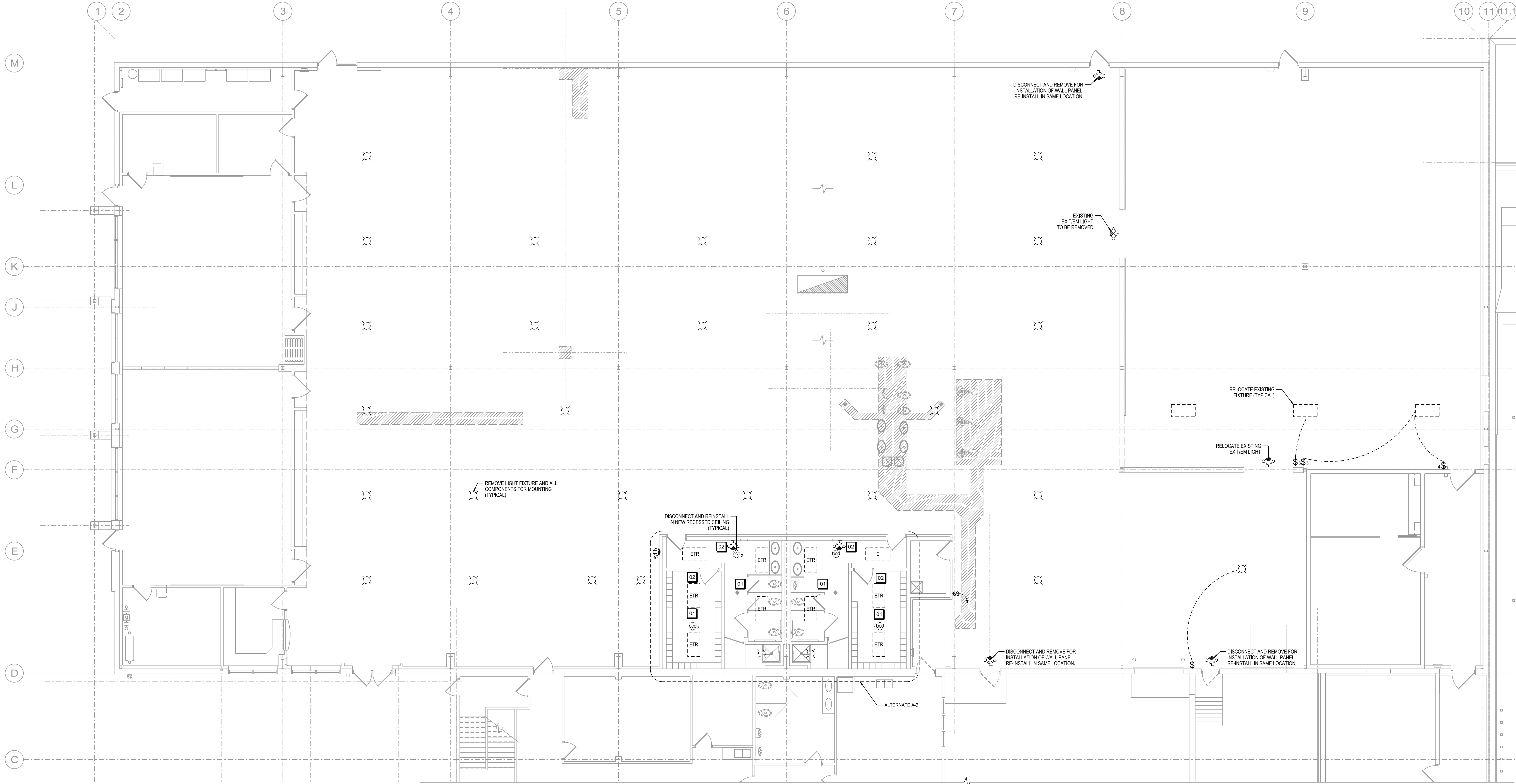


MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3
CITY OF MADISON
PROJECT #53W1393, CONTRACT #6457

PROJECT NUMBER	46453
APPROVED BY	
REVIEWED BY	
DRAWN BY	EPL
DATE	7/12/2012 11:05:24 PM

PHASE 3
MECHANICAL FLOOR
PLAN

M201



FIRST FLOOR ELECTRICAL
DEMOLITION PLAN

DEMOLITION KEYNOTES

- 01 ALL FIXTURES IN THIS ROOM ARE TO BE RELOCATED INTO THE NEW GRID CEILING. ALL CONDUITS ARE TO BE ABOVE NEW GRID CEILING.
- 02 RELOCATE EXISTING EXIT SIGN FOR INSTALLATION OF NEW GRID CEILING.

DEMOLITION GENERAL NOTES

- ETR DENOTES EXISTING TO REMAIN.
- ALL CONTRACTORS PERFORMING DEMOLITION ARE REQUIRED TO VERIFY FIELD CONDITIONS PRIOR TO BIDDING. PLANS MAY NOT INDICATE ALL DEVICES TO BE REMOVED OR INDICATE REQUIRED RELOCATION OF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ELECTRICAL DEVICES AND EQUIPMENT TO BE REMOVED/DEMOLISHED EXCEPT WHERE NOTED OTHERWISE.
- REMOVAL OF THE ELECTRICAL DEVICES AND EQUIPMENT INCLUDES THE REMOVAL OF THE BRANCH CIRCUIT SERVING IT. DEDICATED CIRCUIT CONDUCTORS SHALL BE REMOVED TO THE POINT OF ORIGIN. MAINTAIN CIRCUIT INTEGRITY TO EQUIPMENT AND DEVICES TO REMAIN.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR OF NECESSARY PATCHING AS A RESULT OF THE REMOVAL OF ELECTRICAL DEVICES AND EQUIPMENT.
- REMOVAL OF ELECTRICAL FEEDERS AND BRANCH CIRCUITS SERVING EQUIPMENT TO BE REMOVED BY OTHERS INCLUDES THE REMOVAL OF THE FEEDERS OR BRANCH CIRCUIT AS INDICATED ABOVE, AS WELL AS ALL ASSOCIATED STARTERS, DISCONNECTS, AND OTHER LINE VOLTAGE CONTROL DEVICES.
- REMOVE ALL ELECTRICAL DEVICES, EQUIPMENT, AND LIGHT FIXTURES IN WALLS OR CEILINGS TO BE DEMOLISHED OR REMOVED.

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MADISON POLICE DEPARTMENT
TRAINING CENTER PHASE 3
CITY OF MADISON

PROJECT #53W1393, CONTRACT #6457

PROJECT NUMBER	46453
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REVIEWED BY	
DRAWN BY	DLO
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FIRST FLOOR
ELECTRICAL
DEMOLITION
PLAN

E001



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- 01 PROVIDE RACEWAY AND CABLING BETWEEN THIS LOCATION AND THE DATA JACK AT THE SIMULATOR. COORDINATE REQUIRED CABLING WITH OWNER'S EQUIPMENT.
- 02 EXISTING TO REMAIN DEVICE AND LOCATION. RECIRCUIT ACCORDINGLY.
- 03 ALTERNATE A-2 REMOVE AND REINSTALL ALL FIRE ALARM HORN AND STROBE DEVICES TO ACCOMMODATE NEW CEILING IN ROOM 107, 108, 109, AND 110. ALL EXISTING AND NEW DEVICE CONDUIT SHALL BE INSTALLED/REINSTALLED ABOVE NEW CEILING.

101. POWER AND DATA FOR KIOSK. TWO MONITOR LOCATIONS AND PLUMB FOR WATER FEATURE WITH INTEGRAL LIGHT FIXTURE. PROVIDE ONE (1) DATA CABLE/JACK AND DUPLEX RECEPTACLE FOR EACH MONITOR LOCATION.
102. MOTORIZED SCREEN. 120V CONNECTION TO MOTOR, INSTALL CONTROL. COORDINATE WITH A/V.
103. CEILING MOUNTED PROJECTOR. CEILING MOUNTED RECEPTACLE AND DATA COORDINATE WITH A/V.
104. FLOOR BOX FOR LECTURN. PROVIDE POWER AND SYSTEMS CONNECTIONS. EQUAL TO FSR FL-500P-4-B BOX WITH FL-500P-SS-C COVER.
105. FLOOR BOX WITH FOUR (4) DUPLEX RECEPTACLES AND FOUR (4) DATA CABLES/JACKS.
106. WALL MOUNTED TV LOCATION. PROVIDE DUPLEX RECEPTACLE AND COAX CABLING. COORDINATE WITH A/V.
107. EXISTING JUNCTION BOX FOR GARBAGE DISPOSAL.
108. EXISTING JUNCTION BOX FOR DISHWASHER, DISCONNECT SWITCH TO BE INSTALLED UNDER CABINET.
109. 120V CONNECTION TO ELECTRIC HAND DRYER. PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
110. 120V CONNECTION TO CEILING FAN WIRED BY ELECTRICAL CONTRACTOR, CEILING FAN BY OTHERS. COORDINATE EXACT TROUGH-IN LOCATION WITH EXISTING MECHANICAL DUCTWORK. SEE SHEET E201 FOR CONTROLLER LOCATION.
111. VIDEO CONNECTION. COORDINATE WITH OWNER'S EQUIPMENT.

- 120V CONNECTION TO UNIT HEATER PROVIDED BY OTHERS, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 208V SINGLE PHASE CONNECTION TO CONDENSING UNIT (AC-1) LOCATED ON MEZZANINE. THIS UNIT TO FEED HEAT PUMP (HP-1) LOCATED IN DRIVING SIMULATOR 125.
- 460V THREE PHASE CONNECTION TO EXHAUST FAN (EF-3). PROVIDE AND INSTALL COMBINATION STARTER DISCONNECT MOUNTED ON WALL NEAR UNIT.
- 120V CONNECTION FOR VAV BOX. PROVIDE 4" SQUARE BOX WITH 120V CIRCUIT NEAR VAV BOX. CONTROL WIRING AND TRANSFORMER BY INSTRUMENTS CONTRACTOR.
- LOW VOLTAGE WIRING TO PUMPLING FLEXURE. COORDINATE EXACT ROUGH IN LOCATION AND REQUIREMENTS WITH PUMPLING CONTRACTOR. SEE DETAIL XX-601.

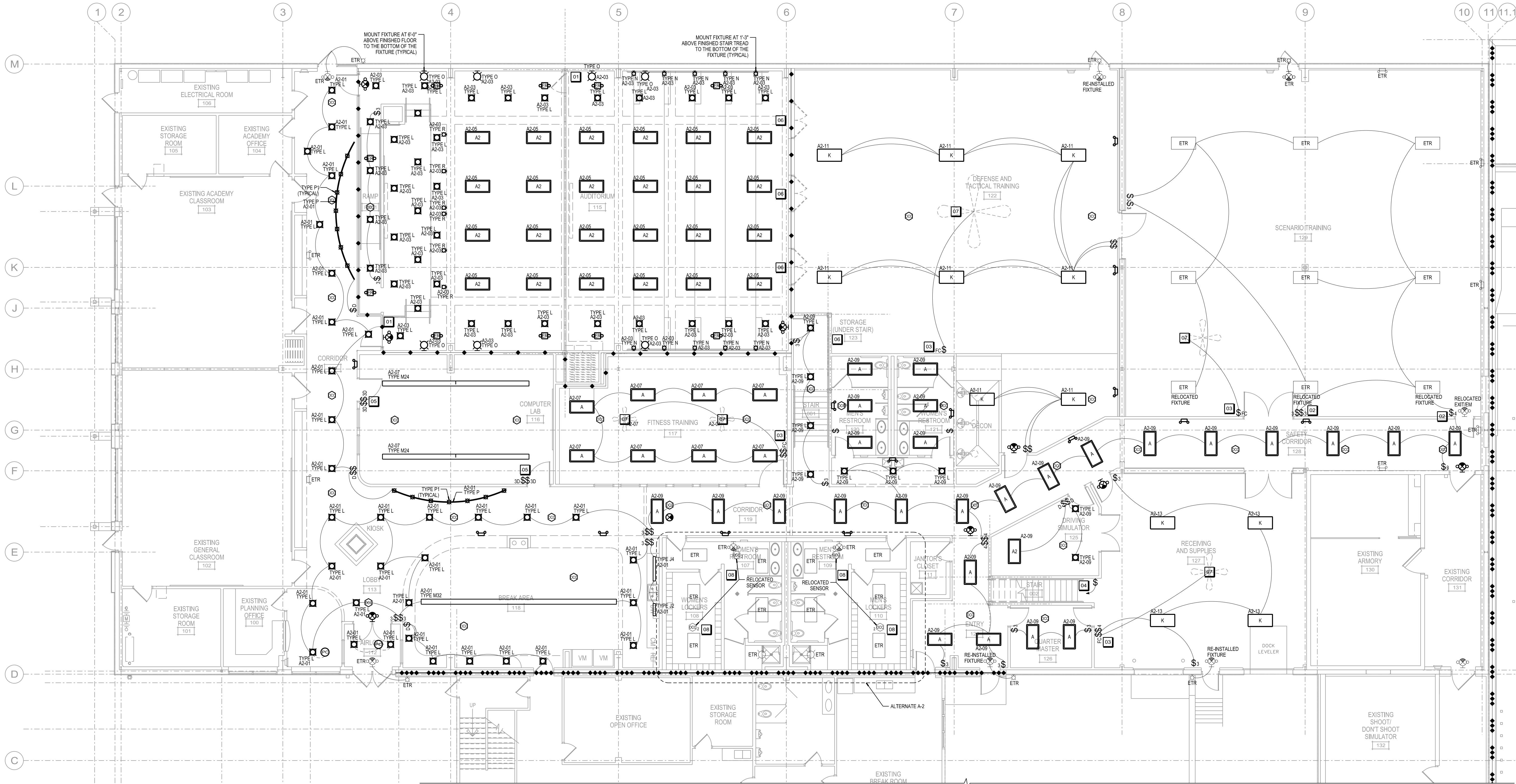
NEW 1 HOUR FIRE SEPARATION (UL DESIGN NO. U907)

EXISTING 3 HOUR FIRE SEPARATION (UL DESIGN NO. U907)

EXISTING 4 HOUR FIRE SEPARATION (UL DESIGN NO. U907)

SCALE:
PLOTTED BY:
Admitt

ORIGINAL SIZE = 24" x 36"
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SCALE: PLOTTED BY: Admin

ORIGINAL SIZE = 24" x 36" X:\6452\cam\46453656401.dgn

PANEL A2 (EXISTING)																
225 AMPS MLO 208Y/120V VOLT 3 PHASE 4 WIRE SURFACE MOUNTING																
BREAKER		DESCRIPTION		CIRCUIT			PHASE LOADS			CIRCUIT			DESCRIPTION		BREAKER	
AMPS	POLES			WATTS	#	A	B	C	#	WATTS				AMPS	POLES	
20	1	LIGHTS		1522	1	1622			2	100	EXISTING EXITS			20	1	
20	1	LIGHTS		967	3		1067		4	100	FIRE ALARM CONTROL PANEL			20	1	
20	1	LIGHTS		1392	5			1872	6	480	AUDITORIUM 115 SCREEN			20	1	
20	1	LIGHTS		1160	7	1640			8	480	AUDITORIUM 115 SCREEN			20	1	
20	1	LIGHTS		1674	9		1854		10	180	AUDITORIUM 115 PROJECTOR			20	1	
20	1	LIGHTS		1960	11			2140	12	180	AUDITORIUM 115 PROJECTOR			20	1	
20	1	LIGHTS		980	13	1880			14	900	STAGE RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	15		1680		16	720	AUDITORIUM 115 RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	17			2040	18	1080	AUDITORIUM 115 RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	19	1500			20	540	COMPUTER LAB 116 RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	21		1500		22	540	COMPUTER LAB 116 RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	23			2400	24	1440	COMPUTER LAB 116 PRINTER			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	25	1320			26	360	COMPUTER LAB 116 RECEPTACLES			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	27		1680		28	720	COMPUTER LAB 116 FLOOR BOX			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	29			1680	30	720	COMPUTER LAB 116 FLOOR BOX			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	31	1140			32	180	COMPUTER LAB 116 PROJECTOR			20	1	
20	1	FITNESS TRAINING 117 DEDICATED CKT		960	33		1680		34	720	COMPUTER LAB 116 FLOOR BOX			20	1	
20	1	FITNESS TRAINING 117 RECEPTACLES		540	35			1260	36	720	COMPUTER LAB 116 FLOOR BOX			20	1	
						37	720		38	720	COMPUTER LAB 116 RECEPTACLES			20	1	
						39		720	40	720	COMPUTER LAB 116 RECEPTACLES			20	1	
						41			42	180	COMPUTER LAB 116 PROJECTOR			20	1	
						9822	10181	11572								
						82	85	96								
TOTAL CONNECTED LOAD (VA)													31575			
RECEPTACLE LOAD @ 180VA EA. (VA)													0			
ADJUSTED RECEPT. LOAD (220.13) (VA)													0			
ADJUSTED TOTAL LOAD (VA)													31575			

PANEL A1 (EXISTING)												
225 AMPS MLO 208Y/120V VOLT 3 PHASE 4 WIRE SURFACE MOUNTING												
BREAKER	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BREAKER		
AMPS	POLES	WATTS	#	A	B	C	#	WATTS		AMPS	POLES	
20	1	1080	1	1080			2		LIGHTS	20	1	
20	1	900	3		900		4			20	1	
20	1	180	5			180	6		LIGHTS	20	2	
20	1	480	7	480			8					
20	1	240	9		240		10		LIGHTING CONTACTOR	20	1	
20	1	1440	11			1440	12		PULSE METER	20	1	
20	1	360	13	360			14					
20	1	180	15		180		16					
20	1		17			0	18					
20	1		19	0			20					
20	1	180	21		180		22					
20	1		23			0	24					
20	1	180	25	180			26					
20	1	1500	27		1500		28					
20	1	1500	29			1500	30					
20	1	960	31	960			32					
20	1	1620	33		1620		34					
20	1	1920	35			1920	36		EXISTING CIRCUIT	20	1	
20	1	1620	37	1620			38		EXISTING CIRCUIT	20	1	
20	2	1248	39		1248		40		PANEL RECEPTACLE	20	1	
		1248	41			1248	42		PANEL RECEPTACLE	20	1	
TUB 1				4680	5868	6288						
TUB 2				9822	10181	11572						
PHASE LOADS (A)				121	134	149						
							TOTAL CONNECTED LOAD (VA)					16836
							RECEPTACLE LOAD @ 180VA EA. (VA)					-3780
							ADJUSTED RECEPT. LOAD (220.13) (VA)					3780
							ADJUSTED TOTAL LOAD (VA)					16836

PANEL HP1												
600 AMPS MCB 480Y/277V VOLT 3 PHASE 4 WIRE SURFACE MOUNTING												
BREAKER		DESCRIPTION	CIRCUIT			PHASE LOADS			CIRCUIT	DESCRIPTION	BREAKER	
AMPS	POLES		WATTS	#	A	B	C	#	WATTS		AMPS	POLES
	3	F-1	1273	1	15684			2	14411	AHU-1	70	3
		EXISTING TO REMAIN	1273	3	15684			4	14411	EXISTING TO REMAIN		
		1273	5		15684	6	14411					
20	3	F-2	1273	7	5152.7			8	3880	AHU-2	20	3
		EXISTING TO REMAIN	1273	9	5152.7			10	3880	EXISTING TO REMAIN		
		1273	11		5152.7	12	3880					
20	3	F-3	1273	13	12358			14	11085	MAU-1	50	3
		EXISTING TO REMAIN	1273	15	12358			16	11085	EXISTING TO REMAIN		
		1273	17		12358	18	11085					
20	3	F-4	1273	19	53373			20	52100	ACC-1	225	3
		EXISTING TO REMAIN	1273	21	53373			22	52100	EXISTING TO REMAIN		
		1273	23		53373	24	52100					
50		EF-2	11085	25	14007			26	2921	EF-3	20	3
		EXISTING TO REMAIN	11085	27	14007			28	2921	NEW		
		11085	29		14007	30	2921					
				31	0			32				
				33	0			34				
				35		0		36				
				37	0		0	38				
				39		0		40				
				41			0	42				
			100574			100574			100574			
TOTAL LOADS: 301722 WATTS												
DEMAND 363 AMPS												

PANEL M (EXISTING)												
100 AMP/5		MLO 208Y/120V VOLT 3 PHASE 4 WIRE		SURFACE MOUNTING								
BREAKER		DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BREAKER	
AMPS	POLES		WATTS	#	A	B	C	#	WATTS		AMPS	POLES
20	1	ROOM 101 DEDICATED RECEPTACLE	180	1	180			2		EXTERIOR LIGHTING	20	1
20	1	ROOM 100 RECEPTACLES	1080	3		1080		4		FLAG POLE LIGHT	20	1
20	1	ROOM 001 RECEPTACLES	900	5			900	6		INTERNALLY LIT SIGN	20	1
20	1	GARBAGE DISPOSAL ROOM 118 (GLD-1)	720	7	720			8				
20	1	DISH WASHER ROOM 118 (DWF-1)	1440	9		1440		10				
20	1	ROOM 118 RECEPTACLES	540	11			540	12				
20	1	ROOM 118 RECEPTACLES	360	13	360			14				
20	1	ROOM 108 DED. RECEPTACLE (HD-1)	1500	15		1500		16				
20	1	ROOM 108,110 RECEPTACLES	720	17			720	18				
20	1	ROOM 110 DED. RECEPTACLE (HD-2)	1500	19	1500			20				
20	1	ROOMS 111,112 RECEPTACLES	360	21		360		22				
20	1	VAV BOXES	150	23			150	24				
20	1	R-1	720	25	720			26				
				27		0		28				
20	1	ROOM 201 RECEPTACLE	180	29			180	30				
20	1	BREAK AREA 118 MICROWAVE	1200	31	1200			32				
20	1	BREAK AREA 118 RECEPTACLES	1440	33		1440		34				
20	1	BREAK AREA 118 RECEPTACLES	360	35			360	36				
20	1	LOBBY 113 KIOSK	200	37	200			38				
20	1	UH-1	1800	39		1800		40				
20	1			41			0	42				
PHASE LOADS (A)					4880	7620	2850					
					41	64	24					
TOTAL CONNECTED LOAD (VA)										15350		
RECEPTACLE LOAD @ 180VA EA. (VA)										4320		
ADJUSTED RECEPT. LOAD (220.13) (VA)										4320		
ADJUSTED TOTAL LOAD (VA)										15350		

FIXTURE SCHEDULE										
TAG	LUMINAIRE			VOLTAGE	BALLAST	LAMP			MOUNTING	
	DESCRIPTION	MANUFACTURER/CATALOG NUMBER	QUANTITY			MANUFACTURER	CATALOG NUMBER			
A	TWO LAMP 2'X4' VOLUMETRIC GRADE LIGHTING. BAKED MATTE WHITE ENAMEL REFLECTOR WITH ACRYLIC LENS. NOMINAL FIXTURE DEPTH 3 1/2". 95 BALLAST FACTOR			LITHONIA 2RT5 28T5 METALUX 2A2C-228T5 DAY/BRITE 2A2TW G 228	120	EB-RS 95 BALLAST	2	SYLVANIA	F28T5/841	RE-S
A2	TWO LAMP 2'X4' VOLUMETRIC GRADE LIGHTING. BAKED MATTE WHITE ENAMEL REFLECTOR WITH ACRYLIC LENS. NOMINAL FIXTURE DEPTH 3 1/2". FULL DIMMING BALLAST WITH 95 BALLAST FACTOR			LITHONIA 2RT5 28T5 METALUX 2A2C-228T5 DAY/BRITE 2A2TW G 228 OR APPROVED EQUAL	120	EB-RS 95 BALLAST FACTOR	2	SYLVANIA	F28T5/841	RE-S
B	NOT USED									
C	NOT USED									
D	NOT USED									
ES1	SURFACE EMERGENCY LIGHTING UNIT. 6 VOLT, 54W MAINTENANCE FREE LED CALCLUM BATTERY. WHITE HOUSING. TWO (2) 20W HALOGEN LAMPS.			LITHONIA ELM654 OR APPROVED EQUAL	120	EM	INCLUDED			WL
ES2	NOT USED									
F	TWO LAMP 4" LOW PROFILE SURFACE W/RA PARABOUD.			LITHONIA LB 2 32 DAY/BRITE SW/N 2 32 METALUX W/A-232 OR APPROVED EQUAL	120	EB-RS	2	SYLVANIA	F032/841	CL
G	NOT USED									
H	NOT USED									
J2	24" UNDER CABINET LIGHT. 1 5/8" MAX DEPTH. SOLID FRONT. ELECTRONIC BALLAST. SINGLE LAMP CROSS SECTION			LITHONIA NZS 17 OR APPROVED EQUAL	120	EB-RS	1	SYLVANIA	F017/841	UC
J4	48" UNDER CABINET LIGHT. 1 5/8" MAX DEPTH. SOLID FRONT. ELECTRONIC BALLAST. SINGLE LAMP CROSS SECTION			LITHONIA NZS 32 OR APPROVED EQUAL	120	EB-RS	1	SYLVANIA	F032/841	UC
K	FOUR LAMP FLUORESCENT HIGH BAY. SEGMENTED SPECULAR ALUMINUM OPTICS. BROAD BEAM DISTRIBUTION. CHAIN HANGER MOUNTING WITH CAPTIVE CHAIN TERMINATION. SUPPORT WITH UNISTRUT BETWEEN STRUCTURE. PROVIDE "TUBE GUARDS" FOR ALL LAMPS IN THIS SPACE. FULL W/REGUARD			LITHONIA FGB24 454 B1X20 METALUX HB145415 DAY/BRITE RF8432UNV /J42-EBH OR APPROVED EQUAL	120	EB-RS	4	SYLVANIA	F54T5/841	SP
L	LED DOWNLIGHT MODULE WITH 6" HOUSING. 1000 LUMEN OUTPUT. 12.5W INPUT POWER. 2700K WITH MINIMUM 85 CRI. GU-24 BASE			CREE LR6-DR1000 WITH H6-GU24 HOUSING OR APPROVED EQUAL	120	LED DRIVER	INCLUDED			RE-S
M	LINDER DIRECT/INDIRECT. PARALLEL. WHITE PAINTED STEEL BATFILES WITH ACRYLIC OPAL DIFFUSER OVERLAY. DE PUNCHED PERFORATIONS ON UPPER HOUSING WITH ACRYLIC OPAL DIFFUSER OVERLAY. DUST COVER. FULL DIMMING. LENGTH AS INDICATED ON PLAN AND SHALL HAVE ADJUSTABLE CABLE GRIPERS WITH AT LEAST 48" CABLE FOR MOUNTING			PEERLESS 10CRM3 COOPER A/PWB-2T8 OR APPROVED EQUAL	120	ML	2 LAMPS PER 4' OF FIXTURE	SYLVANIA	FP28T5/841	RE-S
N	LED STEP LIGHT WITH HORIZONTAL LOUVERS.			NORA LIGHTING NSL-66T1 OR APPROVED EQUAL	120	LED DRIVER	INCLUDED			WL
O	DECORATIVE SCIENCE. OVERALL HEIGHT 24". WIDTH 9 3/8". DEPTH 4". OPAL ACRYLIC LENS.			WINONA 4302 MODIFIED OR APPROVED EQUAL	120	EB-RS	2	SYLVANIA	CPT13WGIX23	WL
P	FLEXIBLE LOW VOLTAGE TRACK SYSTEM. PARALLEL FLAT ALUMINUM CONDUCTORS SEPARATED BY THIN INSULATOR. NATURAL ALUMINUM FINISH. 3" PENDANT MOUNT. 300VA, 12V ELECTRICAL FEED CY LINDER			JUNO FLEX 12 SY SYSTEM OR APPROVED EQUAL	120	EB	NA			SP
P1	LED MINI-CY LINDER SPOTLIGHT. UNIFORM SPOT DISTRIBUTION. 2700K. 6W NOMINAL POWER CONSUMPTION. MINIMUM CRI 82.			JUNO FLEX 12 SY SYSTEM - TF114LED-2K-SP OR APPROVED EQUAL	120	LED DRIVER	INCLUDED			SP
P2	LED MINI-CY LINDER SPOTLIGHT WITH MONOPOT WITH INTEGRAL TRANSFORMER. UNIFORM SPOT DISTRIBUTION. 2700K. 6W NOMINAL POWER CONSUMPTION. MINIMUM CRI 82.			JUNO FLEX 12 SY SYSTEM - TF114LED-2K-SP, TF54OU-SL OR APPROVED EQUAL	120	LED DRIVER	INCLUDED			SP
R	SPOT LIGHT.			TO BE DETERMINED	120		1	SYLVANIA	100	WL
X1	LED COMBO EXIT/EMER LIGHT. WHITE FACE AND HOUSING. RED LETTERS. NUMBER OF FACES AND ARROW DIRECTION PER PLAN. HIGH OUTPUT BATTERY TO RUN TYPE ES2			LITHONIA LHQM HO OR APPROVED EQUAL	120	EM	INCLUDED			WL, CL
BALLAST:	MULTI-LEVEL SWITCHING EMERGENCY BATTERY EMERGENCY BATTERY-REMOTE MOUNTED DIMMING BALLAST RAPID START ELECTRONIC BALLAST, BALLAST FACTOR >0.88 AND THD >10%					MOUNTING:				
ML						RE-S	RECESSED, STANDARD GRID			
EM						RE-ST	RECESSED, SLOPE SLOT OR NARROW GRID			
EM-R						CL	CEILING, SURFACE			
DM						WL	WALL			
EB-RS	UC	UNDER CABINET								
	PL	POLE								
NOTES:	1) MODEL NUMBERS GIVEN IN THIS SCHEDULE MAY NOT INCLUDE ALL REQUIRED OPTIONS AND ACCESSORIES TO MEET THE REQUIREMENTS OF THE DESCRIPTION AND SPECIFICATIONS. PLEASE SUBMIT EQUALS FOR APPROVAL AT LEAST TEN (10) DAYS BEFORE BIDS ARE DUE.									