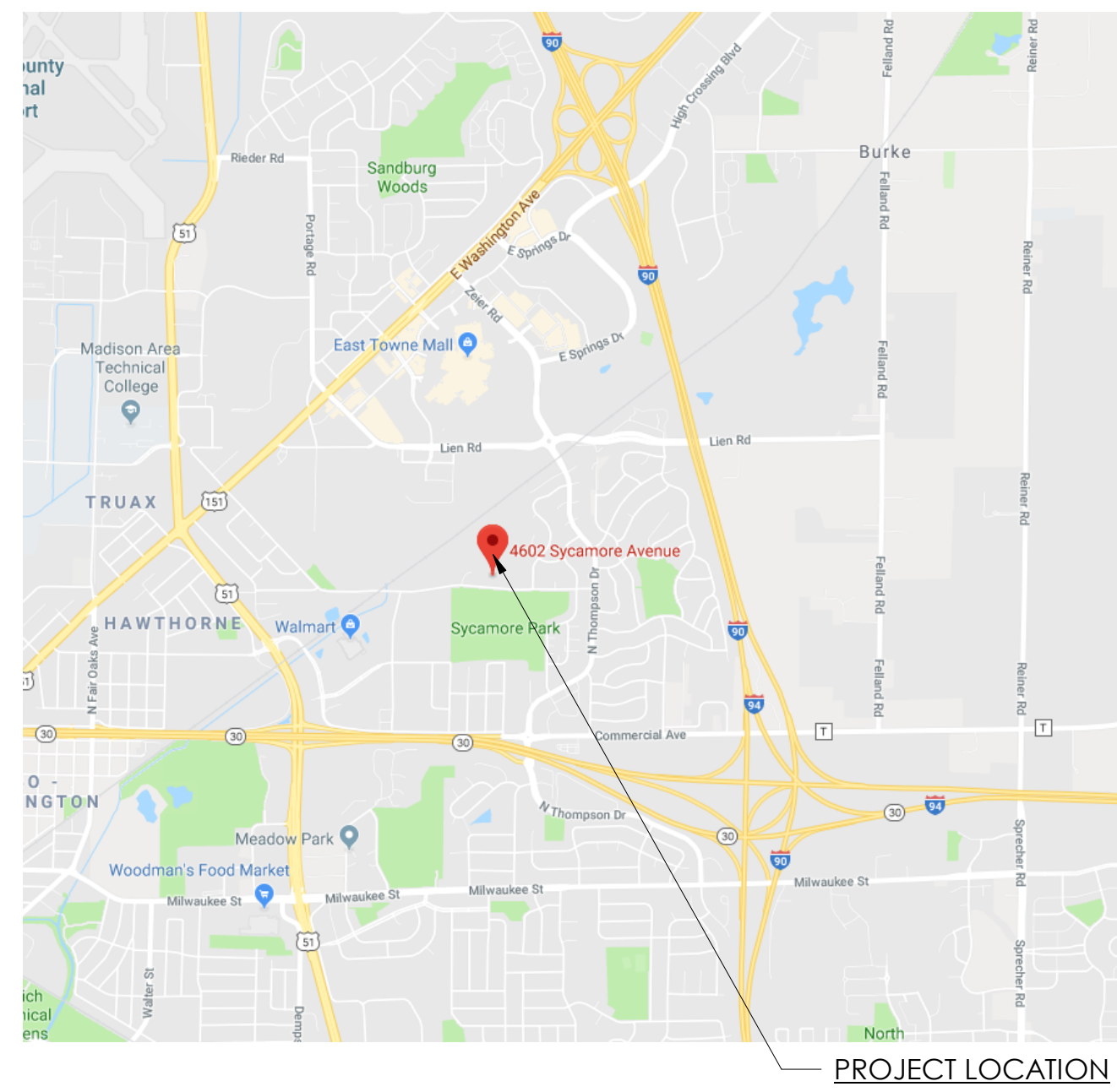


LOCATION MAP



CITY OF MADISON

EAST STREET OFFICE REMODEL

4602 SYCAMORE AVENUE MADISON, WI 53704

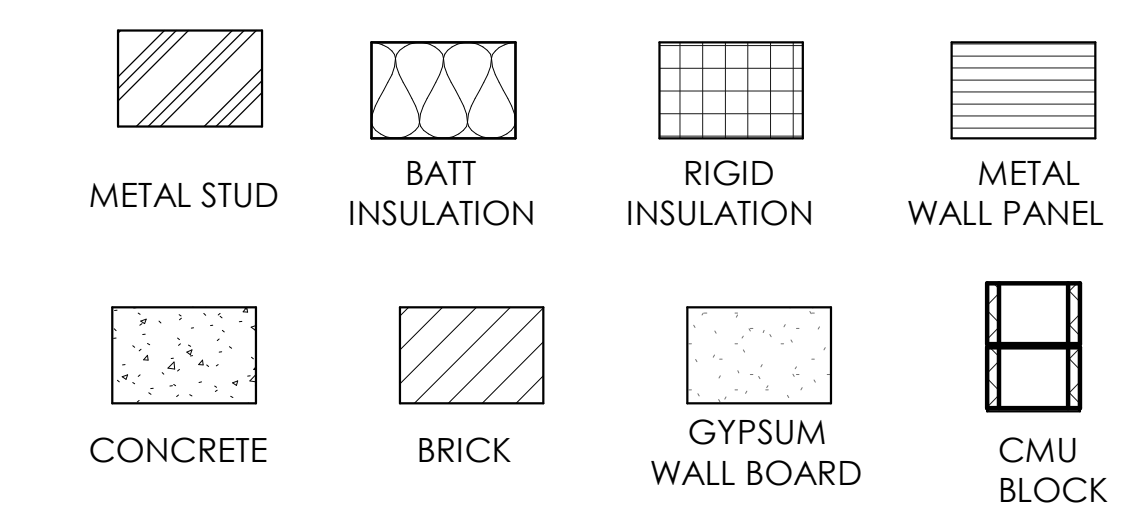
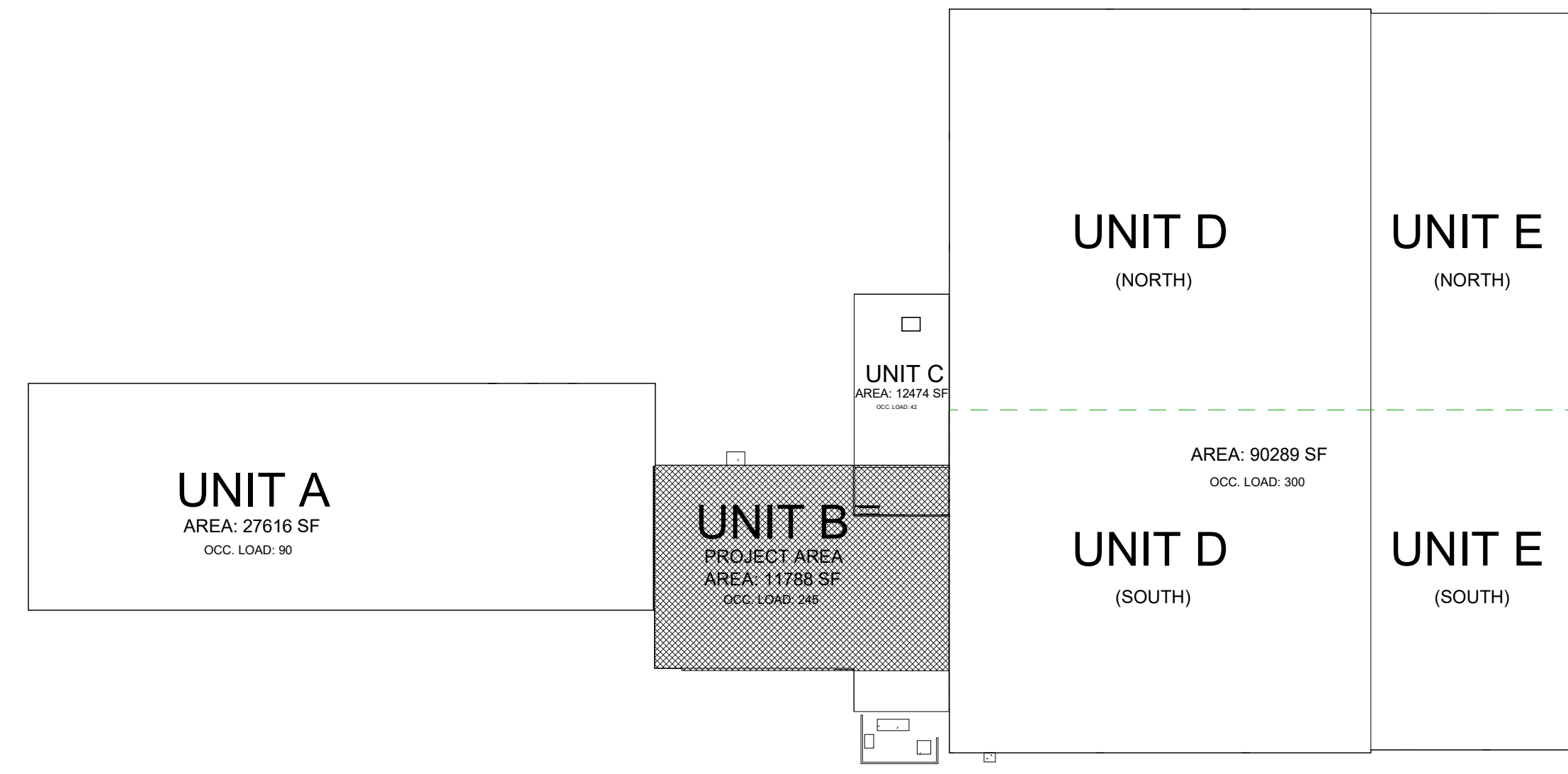
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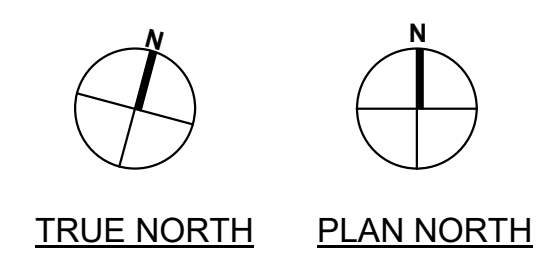
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CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

PUBLIC IMPROVEMENT PROJECT APPROVED: RES - 19-00395 FILE ID 55175 DATE 5/21/2019 BY THE COMMON COUNCIL OF MADISON, WI	PUBLIC IMPROVEMENT DESIGN APPROVED BY: <i>[Signature]</i> CITY ENGINEER DATE 5/24/19
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MATERIAL TYPE
SCALE: 1/2" = 1'-0"



1 OVERALL FLOOR PLAN
SCALE: 1" = 60'-0"

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
GENERAL	
A000	COVER SHEET
A001	CODE REVIEW
G001	GENERAL STANDARDS AND WALL TYPES
ARCHITECTURAL/DEMO	
AD101	DEMOLITION FLOOR PLAN
AD102	DEMOLITION DETAILS
ARCHITECTURAL	
A100	FIRST FLOOR OFFICE REMODEL PLAN
A102	ROOF PLAN
A200	REFLECTED CEILING PLAN
A201	EXTERIOR ELEVATIONS
A600	SHOWER DETAIL
A601	NEW KITCHEN / ADA RESTROOM
A700	DOOR ELEVATIONS, SCHEDULE & DETAILS
A701	WINDOW ELEVATIONS
A900	FINISH SCHEDULE & DETAILS
A901	FURNITURE & EQUIPMENT PLAN
FIRE PROTECTION	
DFP100	UNIT B - FIRE PROTECTION DEMOLITION PLAN
FP100	UNIT B - FIRE PROTECTION FLOOR PLAN
PLUMBING	
DP100	UNIT B - UNDERGROUND PLUMBING DEMOLITION PLAN
DP101	UNIT B - PLUMBING DEMOLITION PLAN
P100	UNIT B - UNDERGROUND PLUMBING PLAN
P101	UNIT B - PLUMBING PLAN
P102	UNIT D - PARTIAL PLUMBING PLANS
P103	UNIT D - SOLAR ROOF PLAN & SECTION
P104	UNIT D - SOLAR RACK ELEVATION & PIPING PLAN
P200	SOLAR PIPING SCHEMATIC
P300	PLUMBING DETAILS & SCHEDULES
HVAC	
DH100	UNIT B - HVAC DEMOLITION PLAN
H100	UNIT B - HVAC DUCTWORK PLAN
H101	UNIT B - HVAC PIPING PLAN

DRAWING INDEX

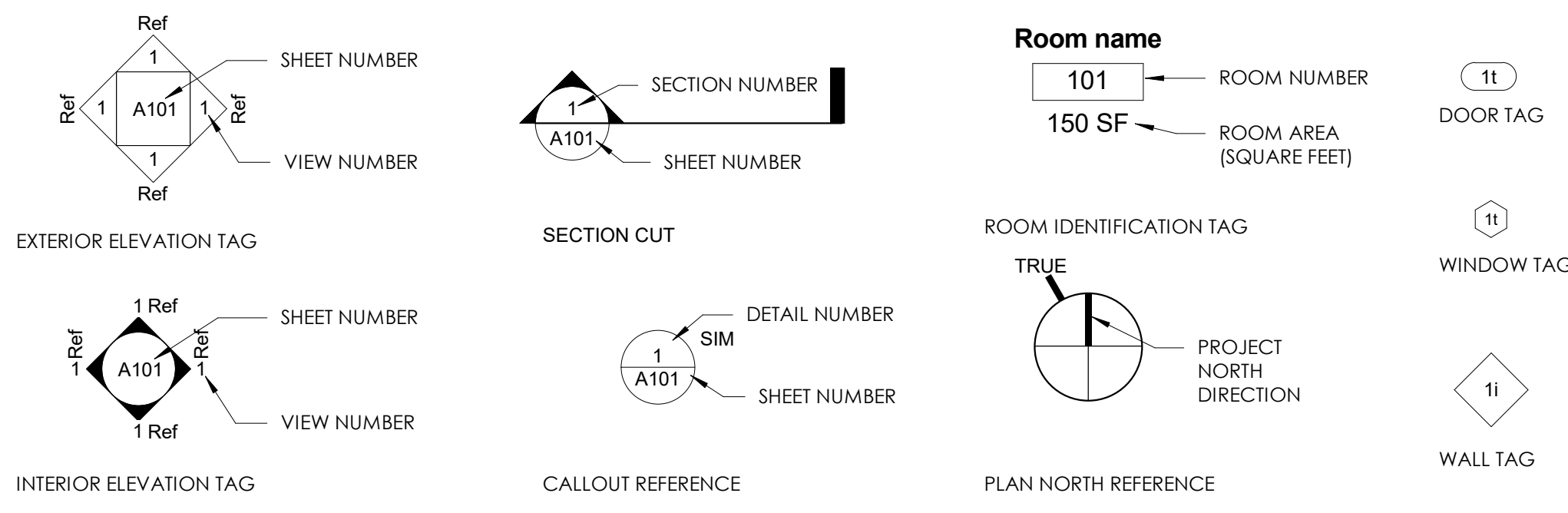
SHEET NUMBER	SHEET TITLE
H102	UNIT B - MEZZANINE LEVEL - HVAC PLANS
H103	UNIT D SOUTH - HVAC PLAN
H104	UNIT D NORTH - HVAC PLAN
H105	UNIT E - HVAC PLAN
H200	HVAC EQUIPMENT ELEVATIONS
H300	HVAC SCHEDULES
H301	HVAC SCHEDULES
H400	HVAC DETAILS
H401	HVAC SCHEMATICS
ELECTRICAL	
DE100	UNIT B - ELECTRICAL LIGHTING DEMOLITION PLAN
DE101	UNIT B - ELECTRICAL POWER/LV DEMOLITION PLAN
E100	UNIT B - ELECTRICAL LIGHTING PLAN
E101	UNIT B - ELECTRICAL POWER/LV PLAN
E102	UNIT B MEZZANINE LEVEL - ELECTRICAL PLANS
E103	UNIT D/E ELECTRICAL PLAN
E300	ELECTRICAL SCHEDULES
E400	ELECTRICAL RISERS & DETAILS
FIRE ALARM	
FA100	UNIT A - FIRE ALARM PLAN
FA101	UNIT B - FIRE ALARM PLAN
FA102	UNIT C/D/E/ SOUTH - FIRE ALARM PLAN
FA103	UNIT C/D/E NORTH - FIRE ALARM PLAN
STRUCTURAL	
S001	STRUCTURAL NOTES & ABBREVIATIONS
S101	ROOF FRAMING PLAN
S201	WALL FRAMING ELEVATIONS
S202	ENLARGED ELEVATIONS
S501	FRAME CROSS SECTION
S502	FRAME CROSS SECTION
S503	FRAME CROSS SECTION
S701	MASONRY DETAILS
S901	STEEL DETAILS
S902	STEEL DETAILS
S903	STEEL DETAILS
S904	STEEL DETAILS

STANDARD ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTICAL CEILING TILE
AL/ALUM	ALUMINUM
BLDG	BUILDING
CAB	CABINET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CPT	CARPET
CSWK	CASEWORK
CLG	CEILING
CL	CENTER LINE
CM	CONSTRUCTION MANAGEMENT
CMU	CONCRETE MASONRY UNIT
COOR	COORDINATE
DBL	DOUBLE
EW	EACH WAY
ELEV	ELEVATION
EQ	EQUAL
XTG	EXISTING
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FRP	FIBERGLASS REINFORCED PLASTIC
FLUOR	FLUORESCENT
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER, INSTALLED BY OWNER
GA	GAUGE
GC	GENERAL CONTRACTOR
GL	GLASS
GWB	GYPSUM WALL BOARD
HDW	HARDWARE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HGT	HEIGHT
HM	HOLLOW METAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OVHG	OVERHANG
PT	PAINT
PLAM	PLASTIC LAMINATE
REF	REFRIGERATOR
REQ	REQUIRED
RO	ROUGH OPENING
SS	STAINLESS STEEL
TYP	TYPICAL
UC	UNDER COUNTER
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WDB	WOOD BASE
WD	WOOD/WOOD VENEER

GENERAL NOTES:

- FIELD VERIFY ALL DIMENSIONS. CONSULT ARCHITECT W/ INCONSISTENCIES
- CONTRACTOR TO COMPLY W/ ALL APPLICABLE BUILDING CODES.
- DIMENSIONS ARE FROM EDGE OF STUD TO EDGE OF STUD. EXISTING PARTITION DIMENSIONS ARE FROM GWB WALL FINISH TO EDGE OF NEW STUD.
- PROVIDE BLOCKING FOR ALL CABINETS AND SHELVING.
- ALL CABINETS AND MILLWORK DRAWING TO BE APPROVED BY ARCHITECT PRIOR TO FABRICATION.
- CONTRACTOR TO PREP AND LEVEL ALL FLOORS FOR 1/8" TOLERANCE.



SYMBOLS
SCALE: 1/2" = 1'-0"

ISSUANCES:
05-15-2019 BID SET

PROJECT #: 171118.00
SHEET NUMBER

A000

CODE INFORMATION

APPLICABLE CODES:

- 2015 INTERNATIONAL BUILDING CODE (WI WI AMENDMENTS - SPS 362)
- 2015 INTERNATIONAL EXISTING BUILDING CODE (WI WI AMENDMENTS - SPS 366)
- 2015 INTERNATIONAL MECHANICAL CODE (WI WI AMENDMENTS - SPS 364)
- 2015 INTERNATIONAL FUEL GAS CODE (WI WI AMENDMENTS - SPS 365)
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (WI WI AMENDMENTS - SPS 363)
- 2012 NATIONAL FIRE PROTECTION ASSOC. (NFPA) 1 (WI WI AMENDMENTS - SPS 314)
- 2009 NATIONAL ELECTRIC CODE (WI WI AMENDMENTS - SPS 316)
- WISCONSIN UNIFORM PLUMBING CODE (SPS 382)

USE & OCCUPANCY CLASSIFICATION (CHAPTER 3):

- OCCUPANCY CLASSIFICATION: BUSINESS GROUP B ASSEMBLY GROUP A3 STORAGE GROUP S1
- OCCUPANCY SEPARATIONS: N/A (PER. 508.3)

BUILDING HEIGHT & AREAS (CHAPTER 5):

TABULAR BUILDING AREA (ALLOWABLE PER STORY):	
OCCUPANCY - GROUP B	19,000 SF (ALLOW.)
CONSTRUCTION - TYPE IIB	69,000 SF (ALLOW.)
AREA PER FLOOR - HEIGHT -	3 STORY / 55' (ALLOW.)

OCCUPANCY - CONSTRUCTION - HEIGHT -	GROUP A-3 TYPE IIB	19,000 SF (ALLOW.)	2 STORY / 55' (ALLOW.)
OCCUPANCY - CONSTRUCTION - HEIGHT -	GROUP S-1 TYPE IIB	35,000 SF (ALLOW.)	2 STORY / 55' (ALLOW.)

507.4 NO AREA LIMITS FOR 1 STORY SPRINKLERED BUILDINGS

ACTUAL BUILDING:

AREA (EXISTING) - FIRST FLOOR	+/- 11,732 GSF
TOTAL	+/- 11,732 GSF
HEIGHT -	1 STORY / 21'-8" < 55 FT

FIRE PROTECTION (CHAPTER 9):

AUTOMATIC SPRINKLER SYSTEM & MONITORING SYSTEM (903)	PROVIDED
FIRE EXTINGUISHERS (906)	PROVIDED
MAX TRAVEL DISTANCE = 75'	
FIRE ALARM & SMOKE DETECTION SYSTEM (907)	PROVIDED

PLUMBING CALCULATIONS (CHAPTER 29):

DESIGN OCCUPANT LOAD:
SEE 2902.1.1 FOR OCCUPANT LOAD DIVISION
STAFF BREAKDOWN (87% MALE, 13% FEMALE)
OCCUPANT LOAD (UNITS: A+B+C+D): 677
WOMEN: 677 x 1/4 = 508
MEN: 677 x 3/4 = 169

	(DESIGN LOAD) PER CODE	ON PLANS
WC: 1 / 25 (1 st 50 OCCUPANTS)		
1 / 50 (REMAINING OCCUPANTS)	11 WC REQ'D.	8 PROV.
MEN:	4 WC REQ'D.	2 PROV.
WOMEN:		
LAV: 1 / 40 (1 st 80 OCCUPANTS)		
1/80 (REMAINING OCCUPANTS)	7 LAV REQ'D.	12 PROV.
MEN:	3 LAV REQ'D.	2 PROV.
WOMEN:		
DF: 1 / 100 OCCUPANTS =	6 DF REQ'D.	2 PROV.
SS:	1 SS REQ'D.	1 PROV.
SHWR:	0 REQ'D.	2 PROV.

TYPE OF CONSTRUCTION (CHAPTER 6):

CONSTRUCTION TYPE IIB	
STRUCTURAL FIRE RATINGS (TABLE 601) / (> 10' FIRE SEP. DISTANCE)	
PRIMARY STRUCTURAL FRAMING	0 HR
EXTERIOR BEARING WALLS (≥ 10' FIRE SEP. DIST)	0 HR
INTERIOR BEARING WALLS	0 HR
NON-BEARING EXTERIOR WALLS (≥ 10' FIRE SEP. DIST)	0 HR
NON-BEARING INTERIOR WALLS & PARTITIONS	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR

MEANS OF EGRESS (CHAPTER 10):

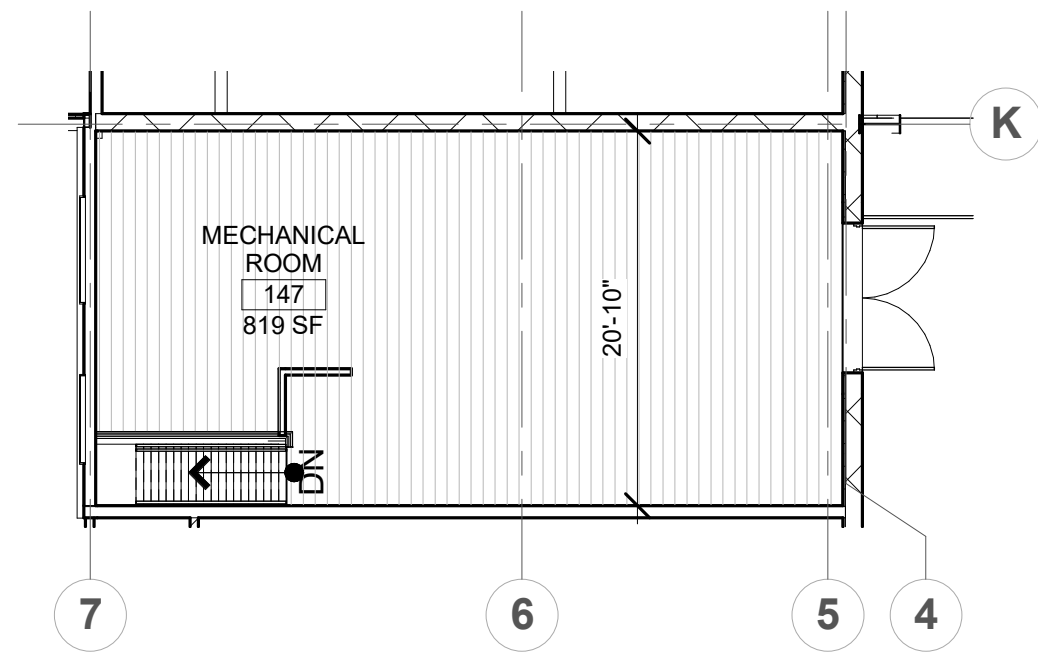
1004 DESIGN OCCUPANT LOAD BUSINESS (NON-ASSEMBLY) 100 GSF / OCCUPANT: 60	= 5,999 SF
BUSINESS (LOCKER ROOMS <50 OCCUPANTS) 50 GSF/OCCUPANT: 35	= 1,754 SF
ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES & CHAIRS) 15 NSF / OCCUPANT: 146	= 2,184 SF
ACCESSORY STORAGE AREAS 300 GSF / OCCUPANT: 4	= 1031 SF
TOTAL BUILDING OCCUPANTS (PER CODE): 245	
1005 MIN. REQ'D. EGRESS WIDTH EGRESS WIDTH BUILDING (0.2" / OCCUP - REQ'D.: 49" < PROV.: 59" (MINIMUM)	
1006 COMMON PATH OF EGRESS MAXIMUM COMMON PATH = <75 FT REQUIRED (A OCCUPANCY) <100 FT REQUIRED (B OCCUPANCY) AS PER TABLE 1006.2.1	
1017.2 TRAVEL DISTANCE MAXIMUM TRAVEL DISTANCE = <250 FT REQUIRED AS PER 1017.2	
1020.1 CORRIDORS (SERVING > 30 OCCUPANTS) SPRINKLERED BLDGS -	0-HR
1020.4 DEAD ENDS (CORRIDORS) MAX. LENGTH OF A DEAD END - 50'-0" (SPRINKLERED BUILDING)	
1006.2.1 MINIMUM NUMBER OF EXITS FIRST FLOOR - REQ'D.: 2	PROV.: 4

OCCUPANCY LEGEND

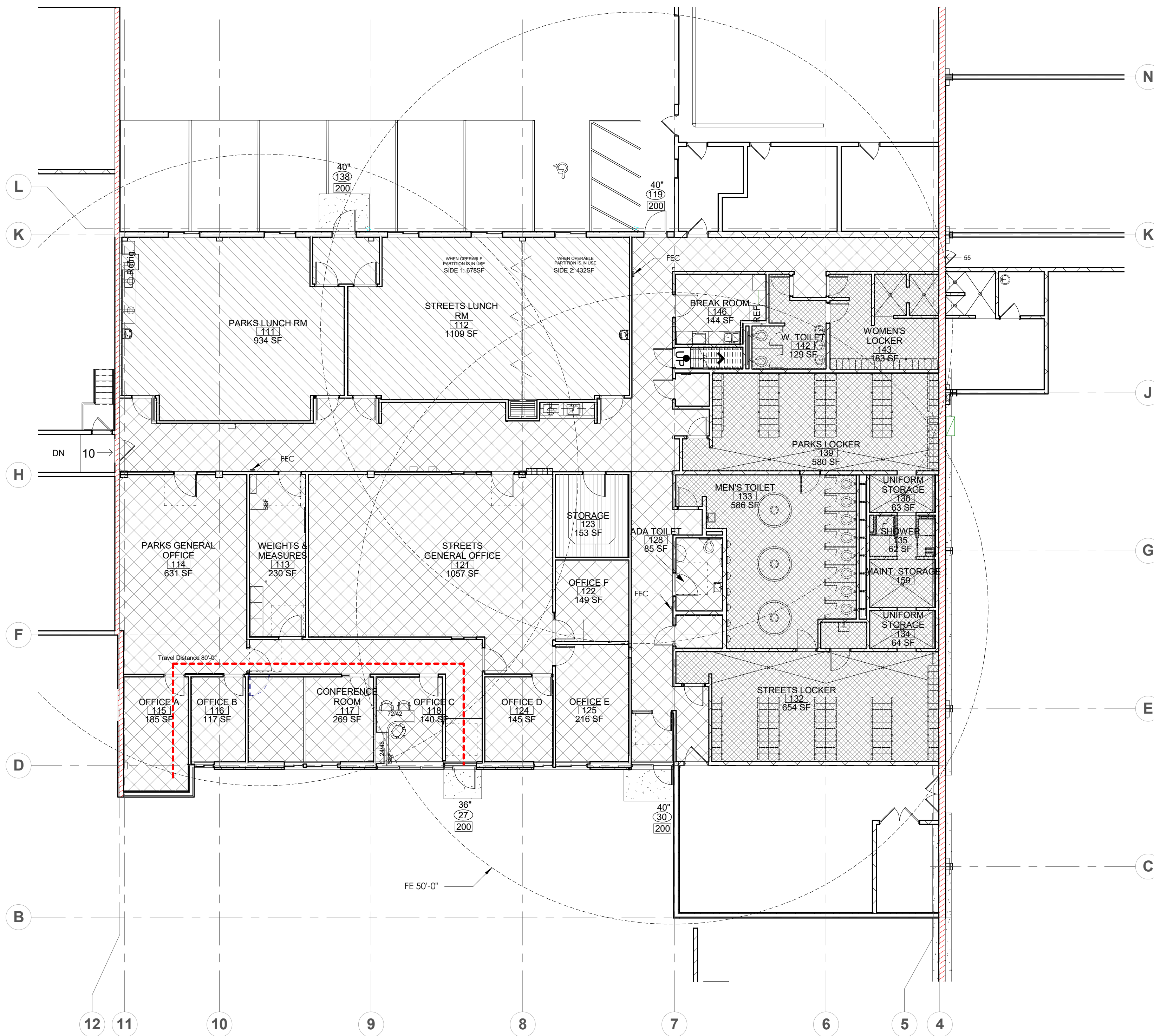
[Pattern]	(B)- 100 GSF/PERSON
[Pattern]	(A-3)- 15 NSF/PERSON
[Pattern]	(S-1)- 300 GSF/PERSON
[Pattern]	(B - LOCKER ROOMS) - 50 GSF/PERSON

CODE REVIEW LEGEND

[Symbol]	FE 50' RADIUS
[Symbol]	ADA SPACE REQUIREMENTS
[Symbol]	MAX TRAVEL DISTANCE
[Symbol]	EGRESS (CAPACITY)
[Symbol]	EGRESS (OCCUPANTS SERVED)
[Symbol]	POINT OF EGRESS (CLEAR WIDTH PROVIDED)
[Symbol]	FIRE EXTINGUISHER CABINET
[Symbol]	CLEARANCE FOR ADA COMPLIANT DOOR OPENINGS
[Symbol]	3 HR FIRE WALL



2 MECH MEZZANINE CODE REVIEW
SCALE: 3/32" = 1'-0"



1 FIRST FLOOR - CODE REVIEW
SCALE: 3/32" = 1'-0"



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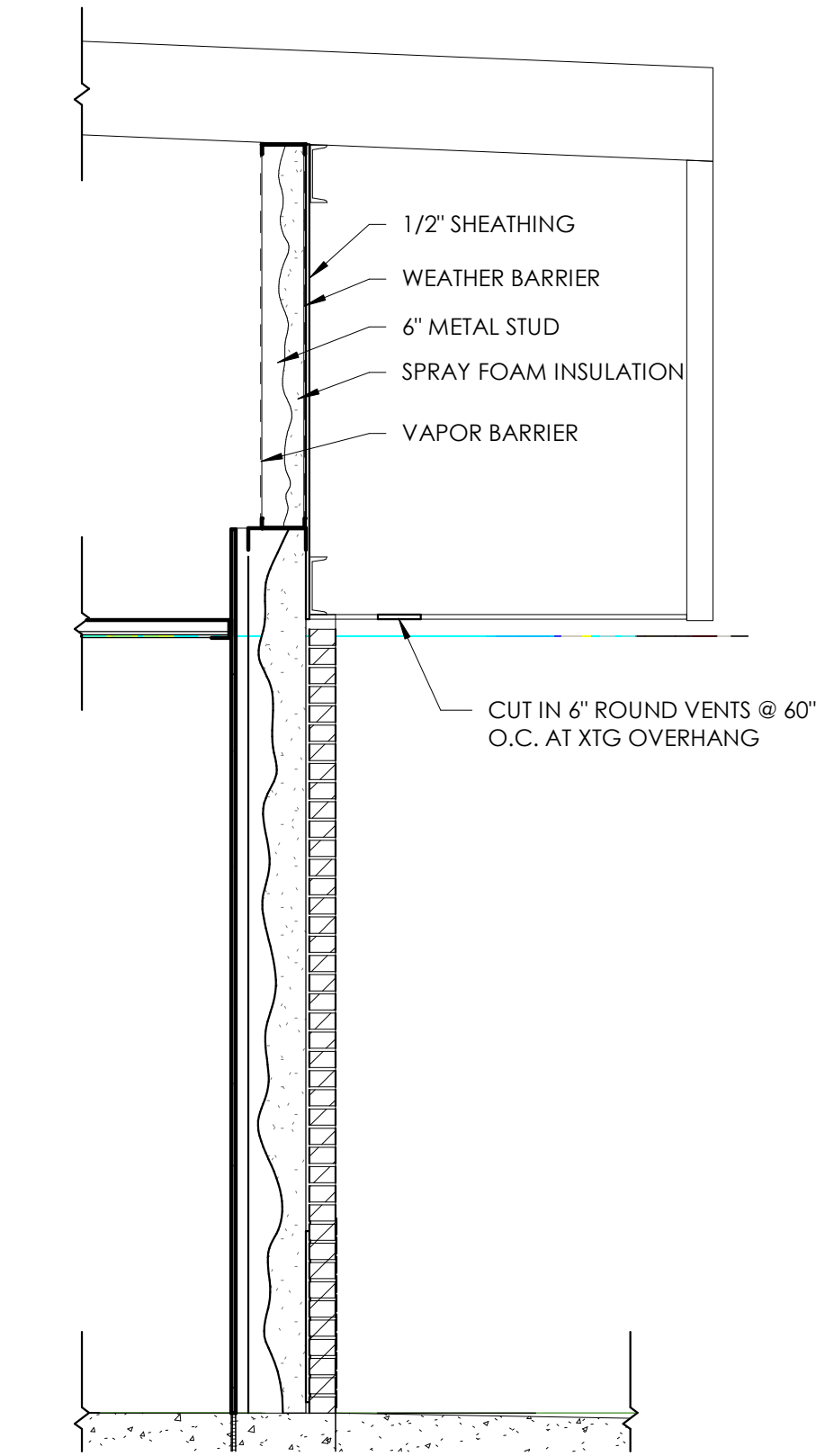
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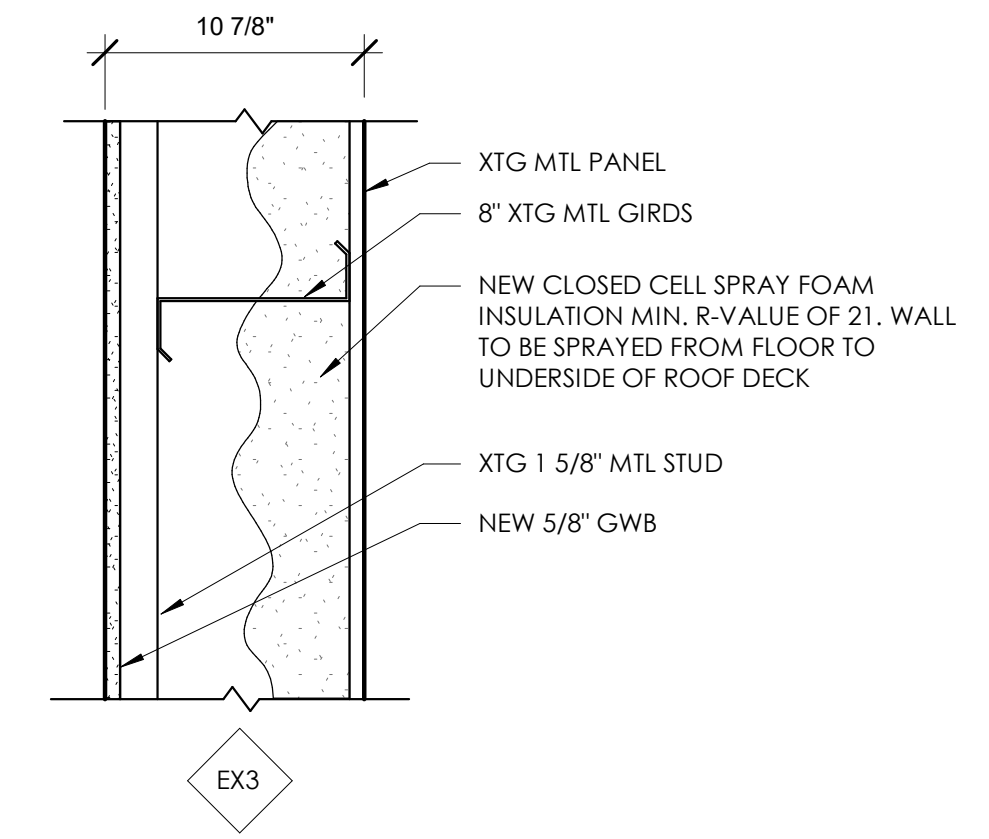
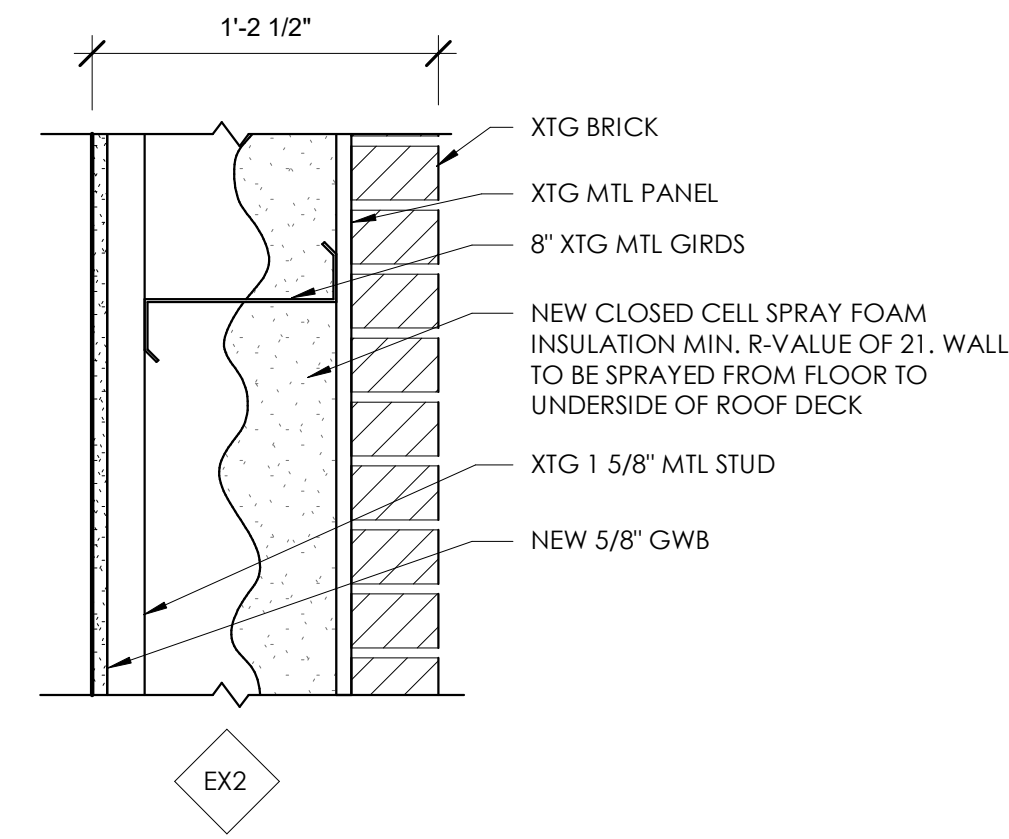
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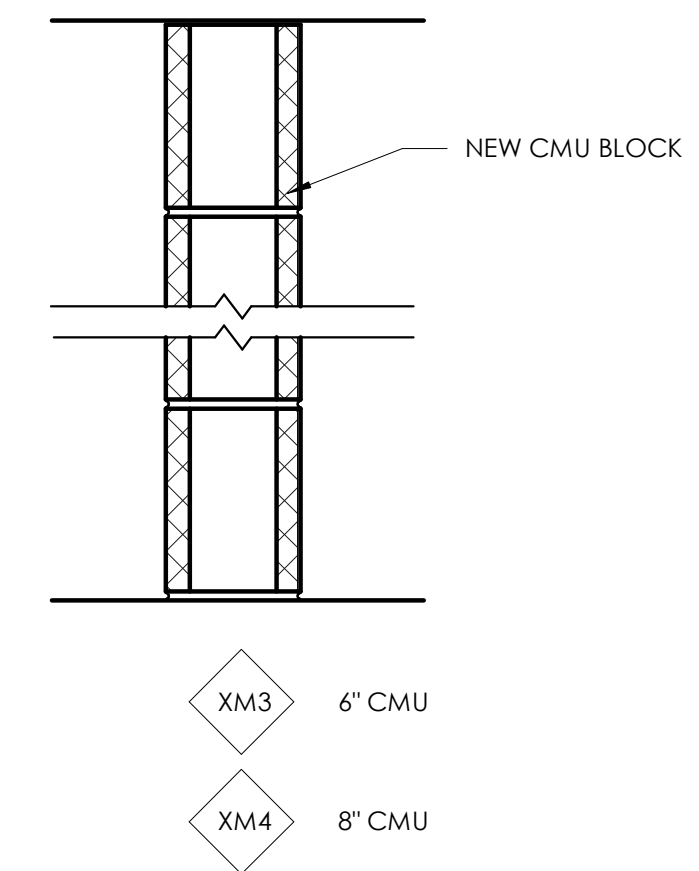
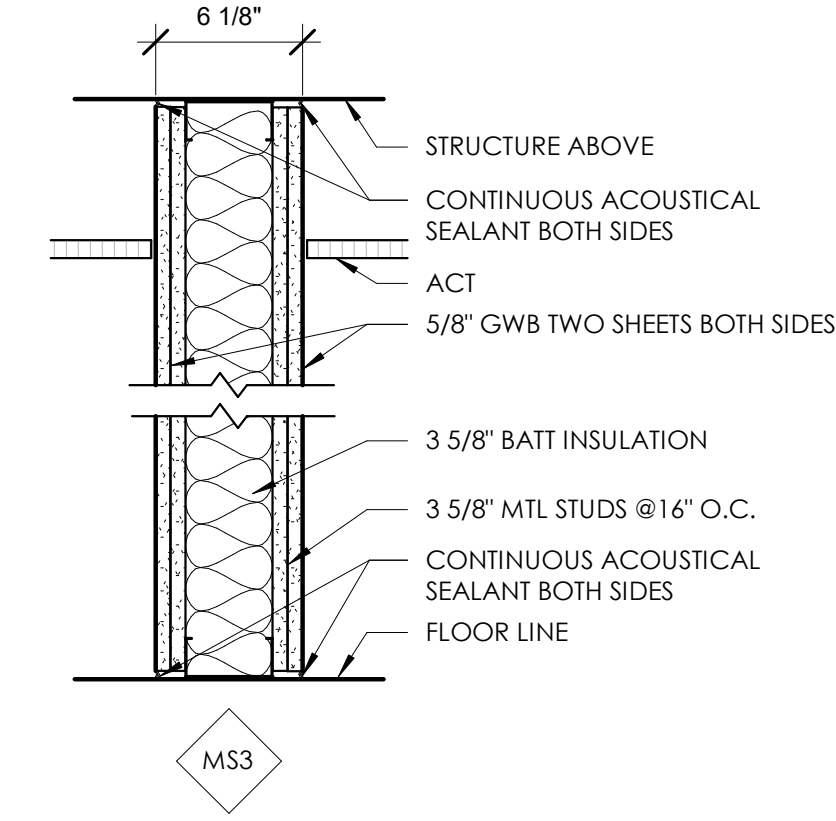
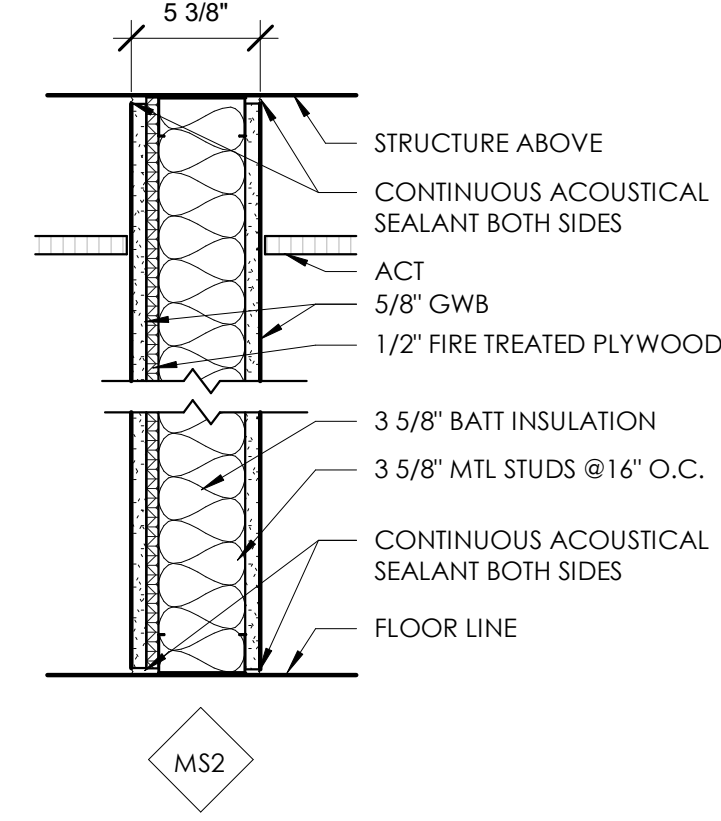
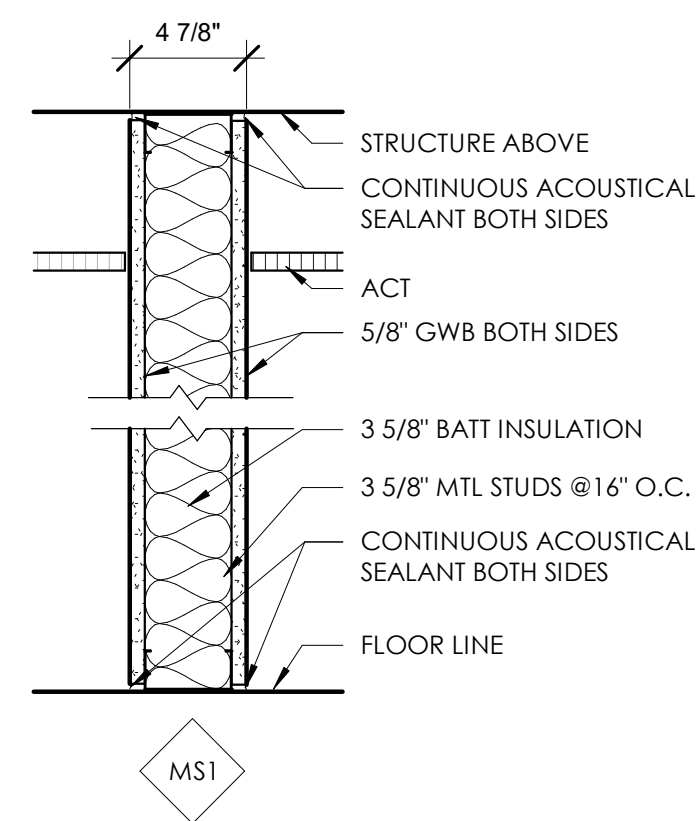
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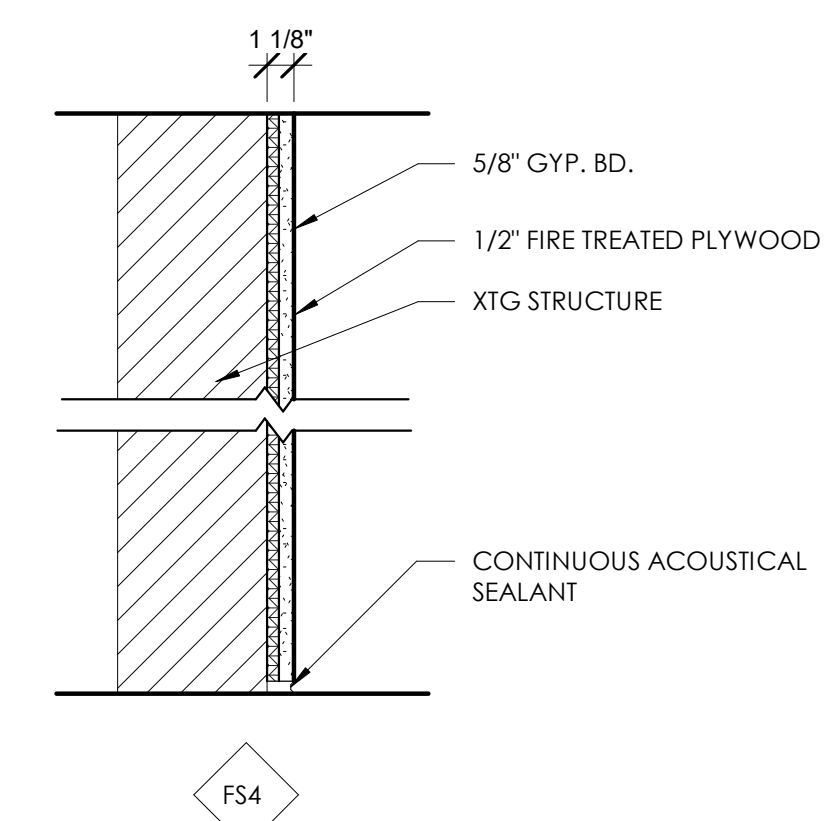
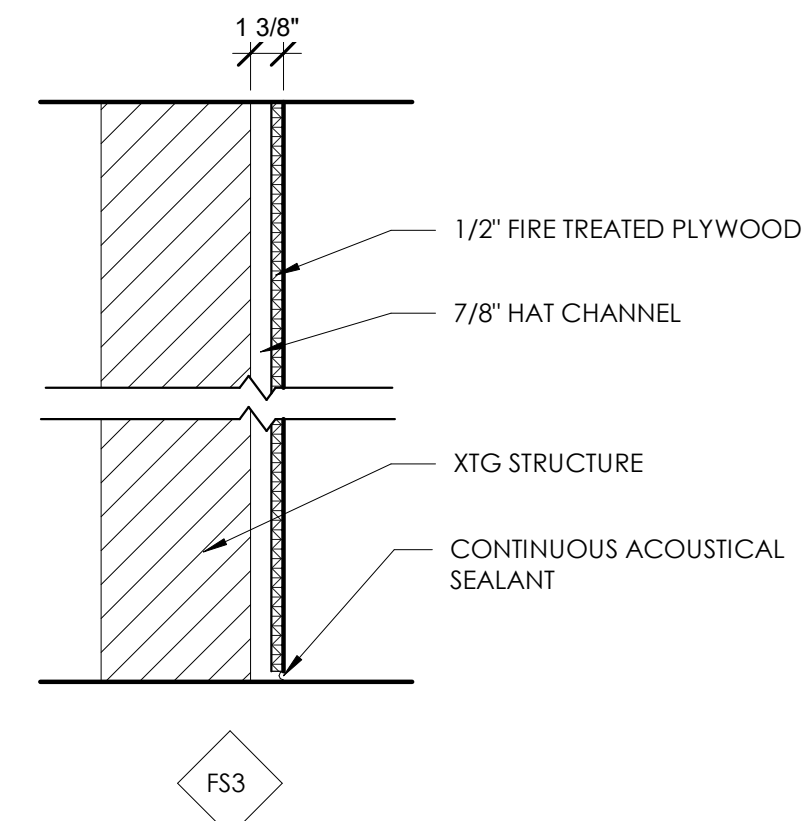
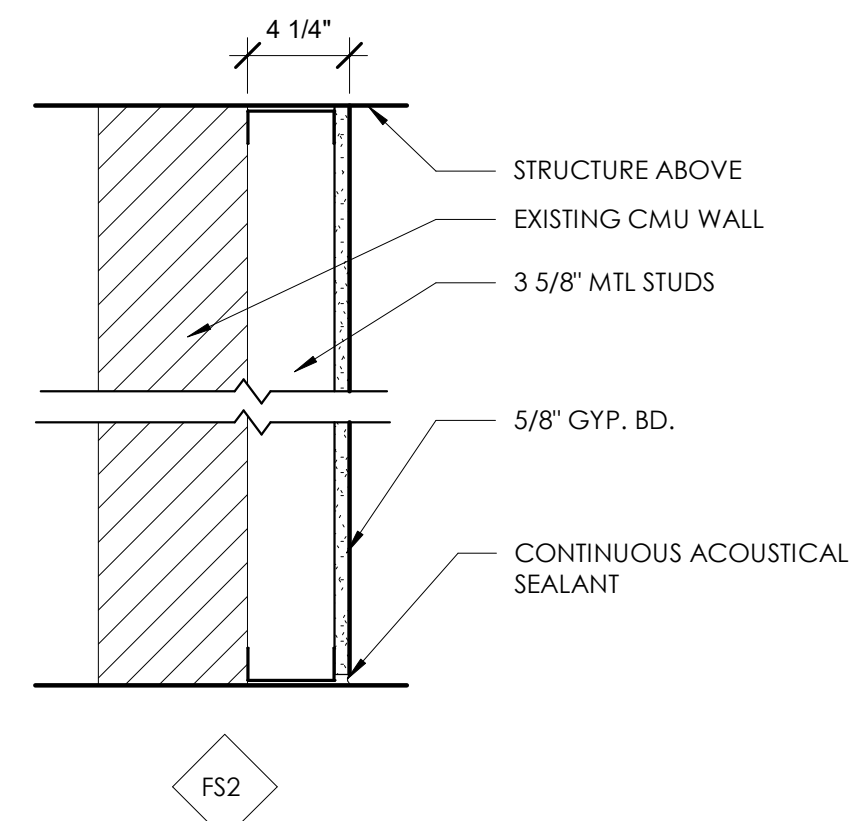
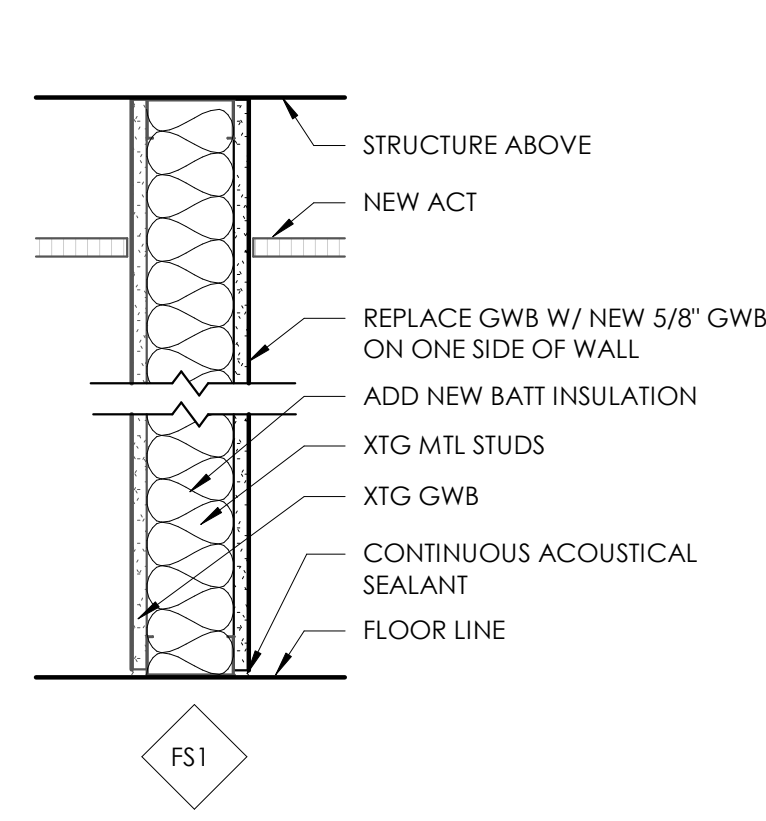
11 SECTION @ SOFFIT
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EXTERIOR WALLS



INTERIOR WALL PARTITIONS



XTG INTERIOR WALLS W/ NEW FURRING

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PROJECT #: 171118.00
SHEET NUMBER

AD101

DEMOLITION GENERAL NOTES

- EXISTING CEILING AND LIGHTS TO BE REMOVED IN THE ENTIRE WORK AREA.
- REMOVE ITEMS DESIGNATED BY DASHED LINES. VERIFY CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- AREAS AND PARTITIONS NOT DASHED OR NOTED TO BE REMOVED SHALL STAY INTACT. REFER TO FLOOR PLAN FOR MORE INFORMATION. PATCH AND REPAIR ADJACENT AREAS AS REQUIRED AFTER DEMOLITION IN ACCORDANCE WITH RENOVATIONS.
- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT WORK TO REMAIN. AS REQUIRED.
- PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVAL BETWEEN DEMOLITION AND INSTALLATION OF NEW CONSTRUCTION TO ENSURE THAT WATER LEAKAGE DOES NOT DAMAGE THE STRUCTURE.
- UTILITY SERVICE: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- EXISTING SERVICES/SYSTEMS TO BE REMOVED, RELOCATED OR ABANDONED: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEM SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
- VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING SELECTIVE DEMOLITION OPERATIONS.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL DEMOLITION.
- DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. CUT CONCRETE AND MASONRY AT JUNCTURES WITH OTHER ELEMENTS TO REMAIN USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
- REMOVE FROM BUILDING SITE DEBRIS, TRASH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. TRANSPORT AND LEGALLY DISPOSE OF OFF SITE.
- IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF BEING HAZARDOUS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER SEPARATE CONTRACT.
- BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON PROJECT SITE.
- STORE ITEMS TO BE RELOCATED AND PROTECT FROM DAMAGE.
- COORDINATE DEMOLITION WITH BUILDING OWNER AND OTHER TRADES. CONFIRM EXTENT, TIMING, AND ITEMS TO BE SALVAGED BY BUILDING OWNER.

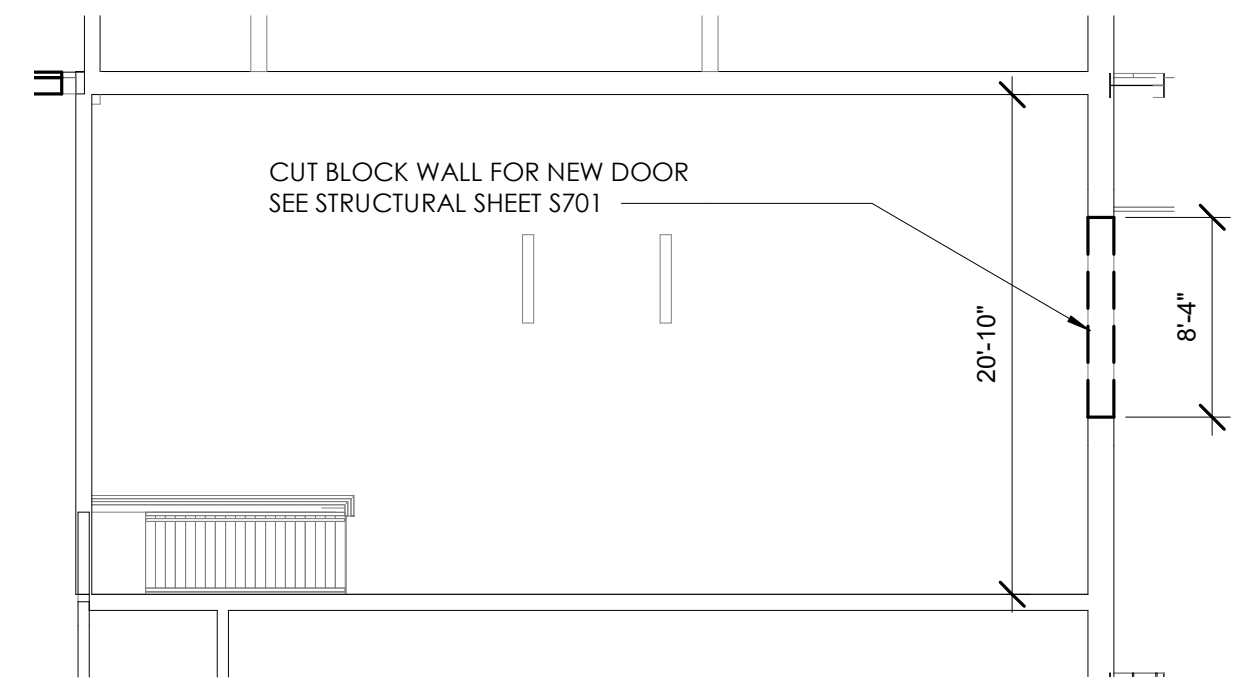
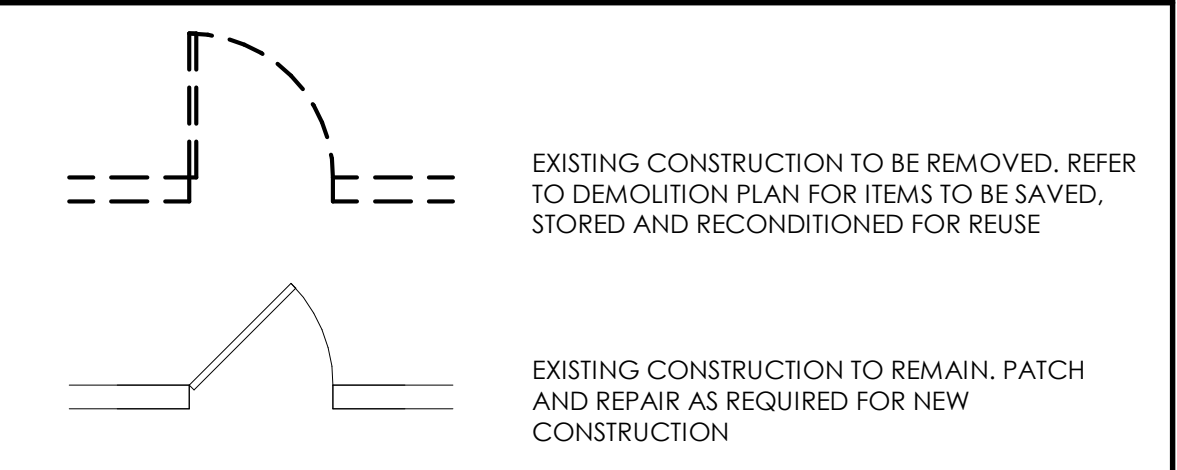
DEMOLITION DEFINITIONS

- REMOVE:** DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
- REMOVE AND SALVAGE:** CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER.
- REMOVE AND REINSTALL:** DETACH ITEMS FROM EXISTING CONSTRUCTION. PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
- EXISTING TO REMAIN:** EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED.

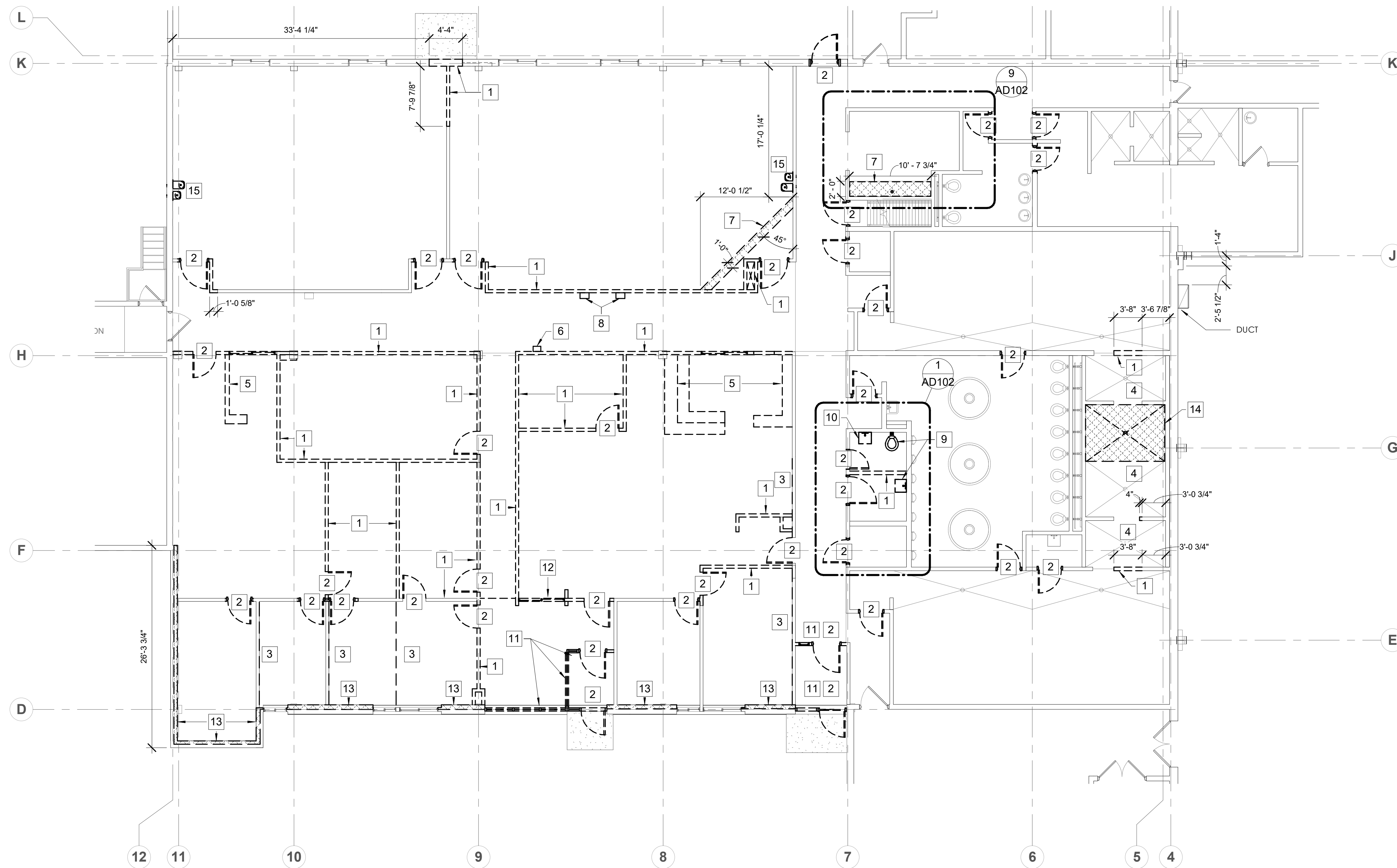
DEMOLITION KEYNOTES

- REMOVE EXISTING WALL
- REMOVE DOOR AND FRAME
- REMOVE GWB
- ABANDON AND CAP SHOWER FIXTURES AND GRAB BARS
- REMOVE EXISTING COUNTER
- REMOVE EXISTING PHONE
- CUT AND REMOVE CONCRETE SLAB, VERIFY LOCATION.
- REMOVE AND SET ASIDE EXISTING TIME CLOCKS FOR RELOCATION
- REMOVE EXISTING PLUMBING FIXTURES
- REMOVE EXISTING SINK AND SET ASIDE FOR RE-USE
- REMOVE STOREFRONT
- REMOVE GLAZING
- REMOVE EXISTING GYP.BD. AND BATT INSULATION TO RECEIVE NEW GYP.BD. AND BATT INSULATION
- FLOOR TO BE RE-SLOPED
- REMOVE EXISTING DRINKING FOUNTAIN

DEMOLITION PLAN LEGEND



2 MECH. MEZZANINE DEMO PLAN
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR OFFICE DEMO PLAN
SCALE: 1/8" = 1'-0"



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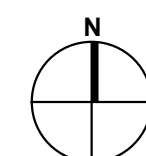
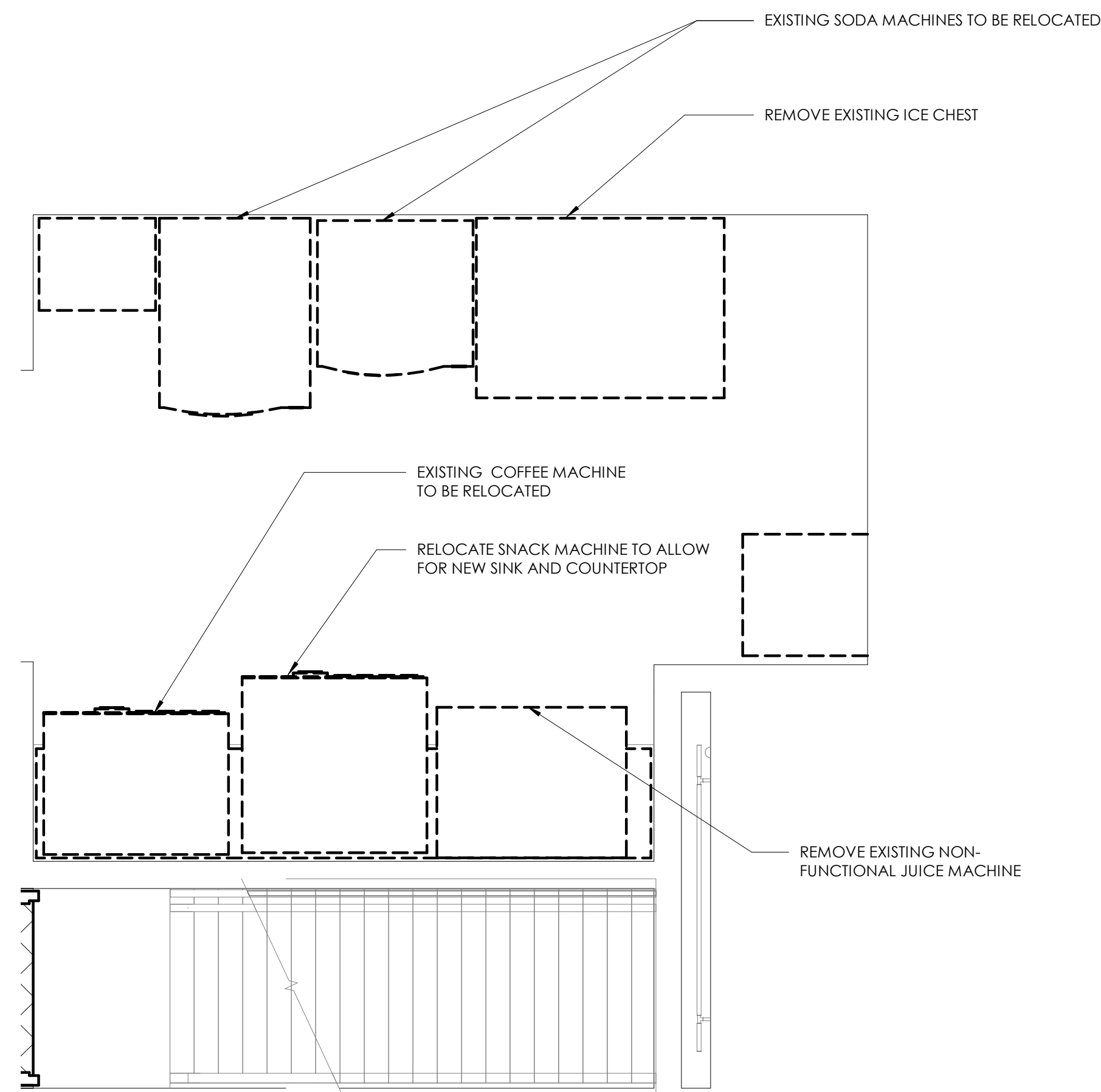
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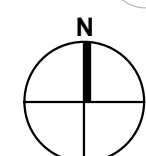
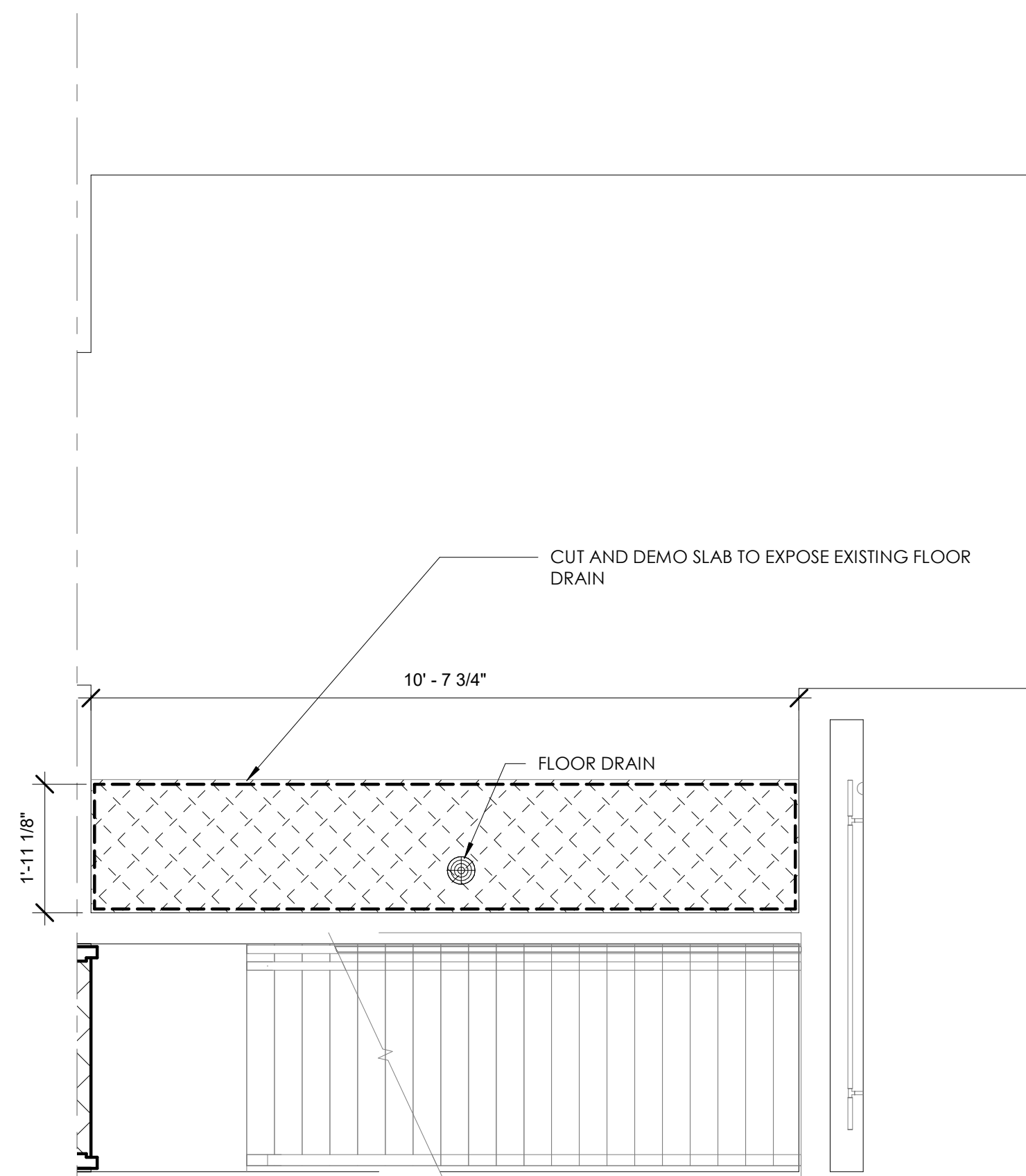
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NOTE:

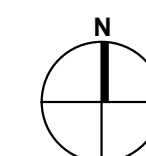
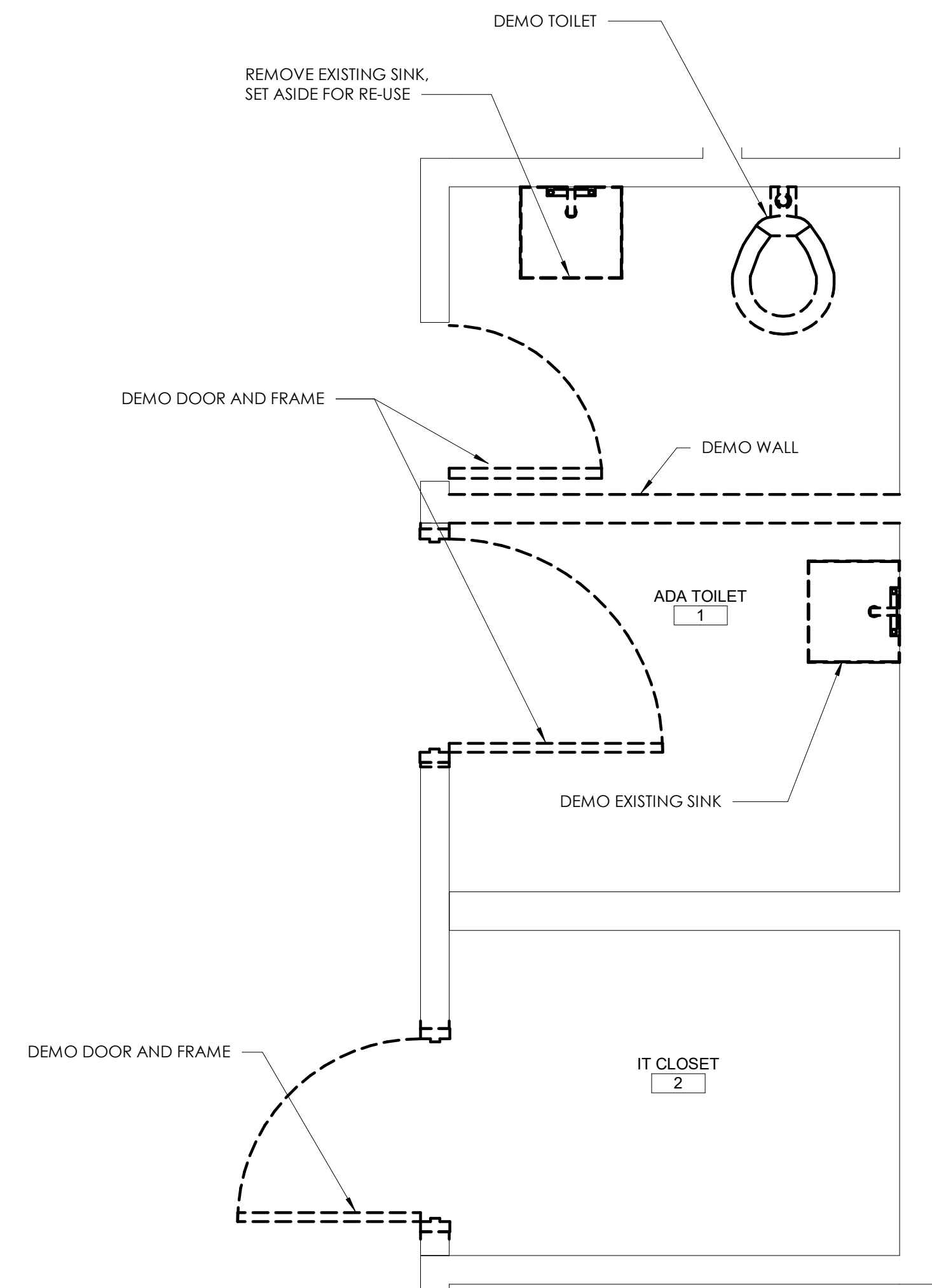
- 1. GC TO COORDINATE NEW LOCATION W/ OWNER



9 VENDING ROOM DEMO FURNITURE PLAN
SCALE: 1/2" = 1'-0"

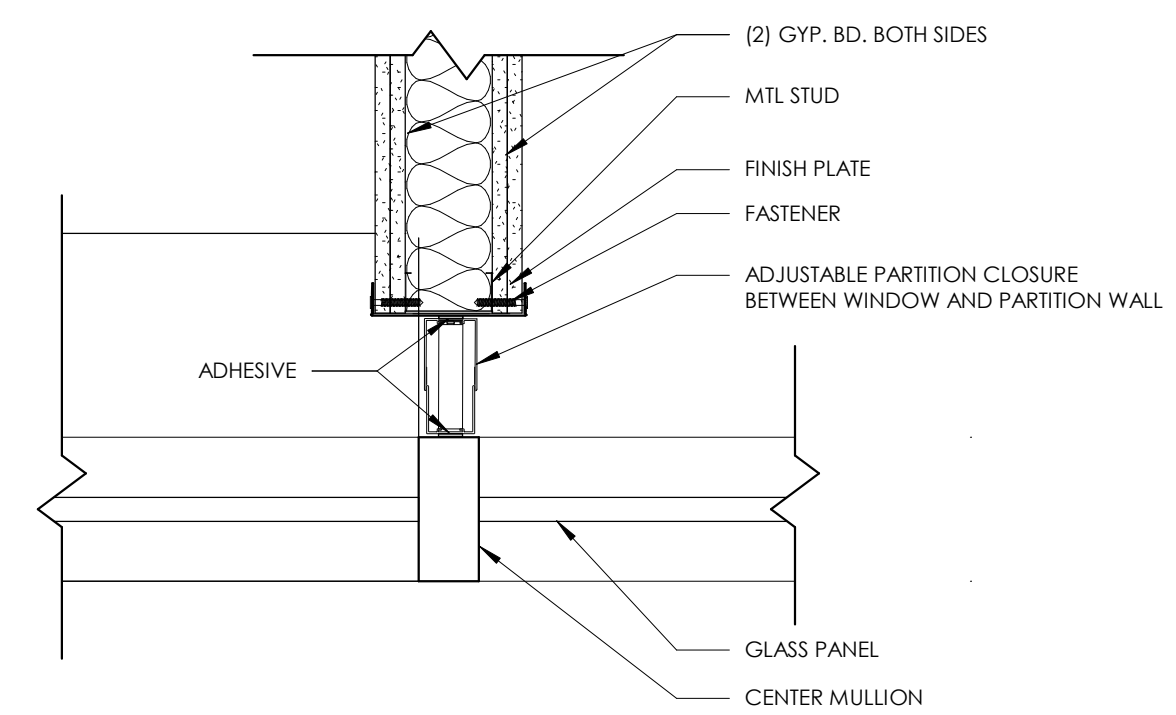


5 VENDING ROOM DEMO PLAN
SCALE: 1/2" = 1'-0"

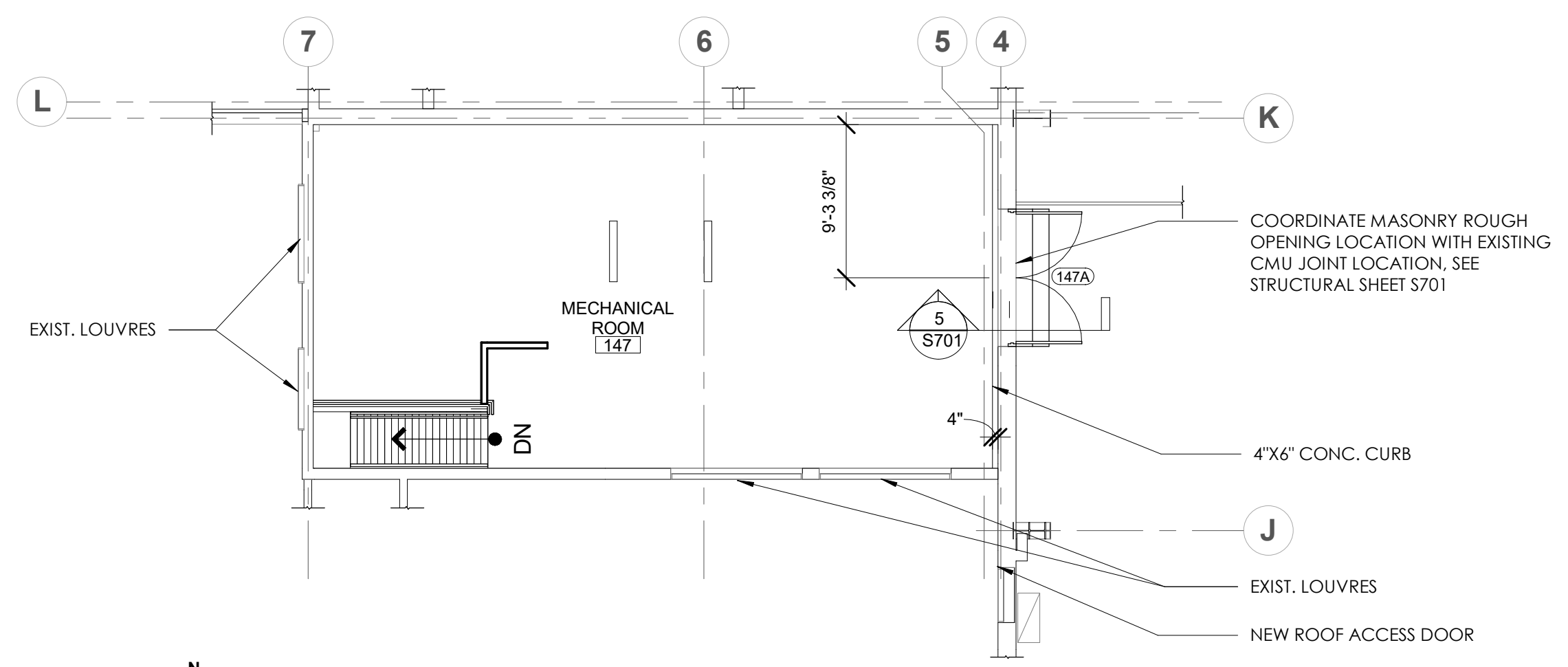


1 UNISEX TOILET, FIRST AID, IT CLOSET DEMO
SCALE: 1/2" = 1'-0"

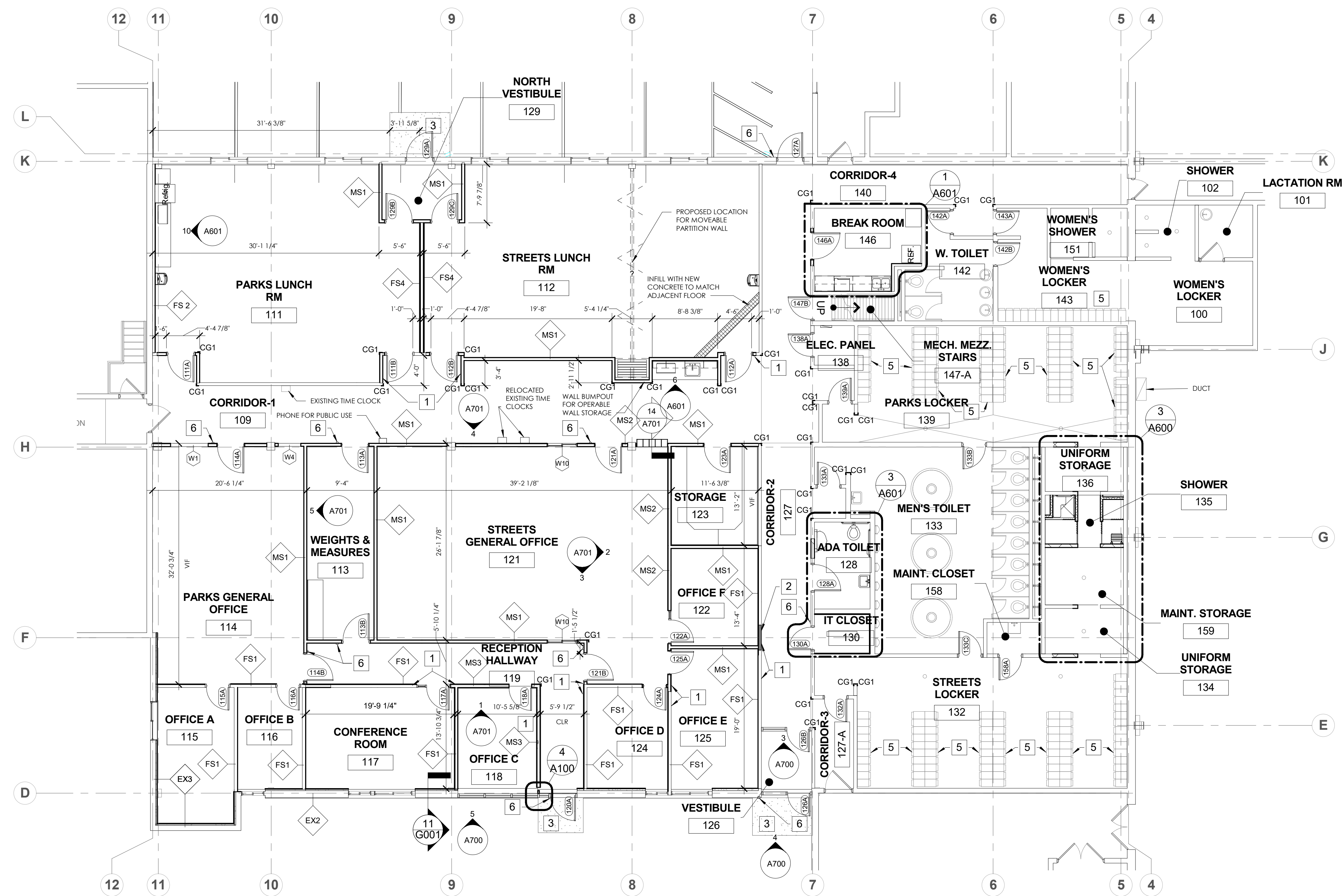
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4 END WALL AT STOREFRONT
SCALE: 1 1/2" = 1'-0"



2 MECH MEZZANINE
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR OFFICE REMODEL
SCALE: 1/8" = 1'-0"

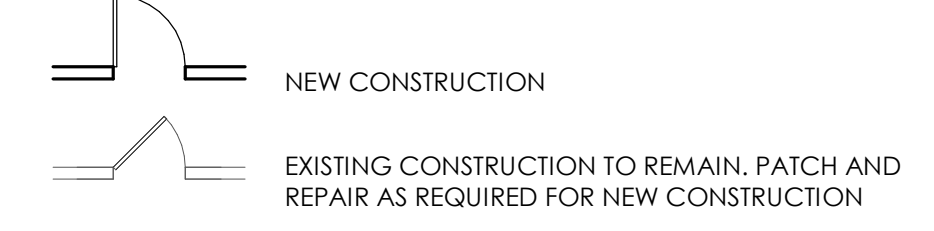
GENERAL NOTES

- DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CASEWORK LOCATIONS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS
- REFER TO ENLARGED PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS AND KEYNOTES.
- PROVIDE CONCEALED, FIRE TREATED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS, EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
- REFER TO WALL TYPES SHEET FOR PARTITION WALL TYPES.
- ALL WALLS WITH SOUND ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM AND AT ALL WALL PENETRATIONS.
- ALL PENETRATIONS IN FIRE RATED WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
- SEE SHEET G001 FOR PARTITION TYPES
- REFER TO CONSULTANT DRAWINGS FOR OTHER DISCIPLINES
- EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION.
- INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY.
- FLOORING TO BE STEAM CLEANED AND SEALED IN THE FOLLOWING ROOMS: 132, 133, 134, 135, 136, 139, 142, 143, 151, 158, 159.

KEYNOTES

- ALIGN FINISHES
- PATCH WALL WHERE DOOR IS REMOVED, MATCH EXISTING
- EXIST. CONC. PAD
- NOT USED
- LOCKERS TO BE PAINTED PT-1
- KEYSCAN, SEE ELECTRICAL SHEETS

FLOOR PLAN LEGEND



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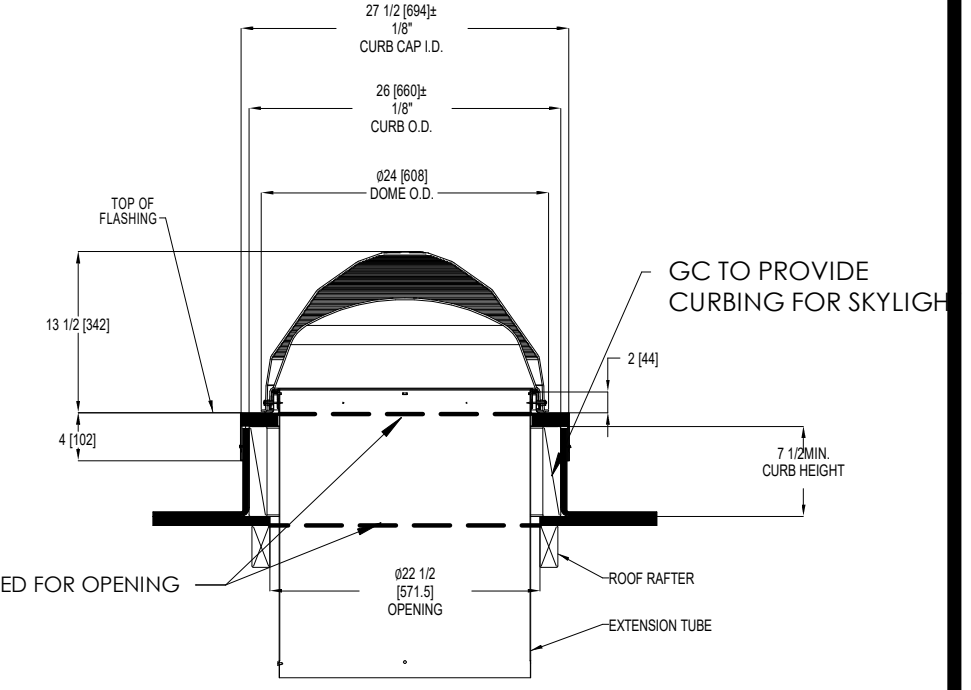
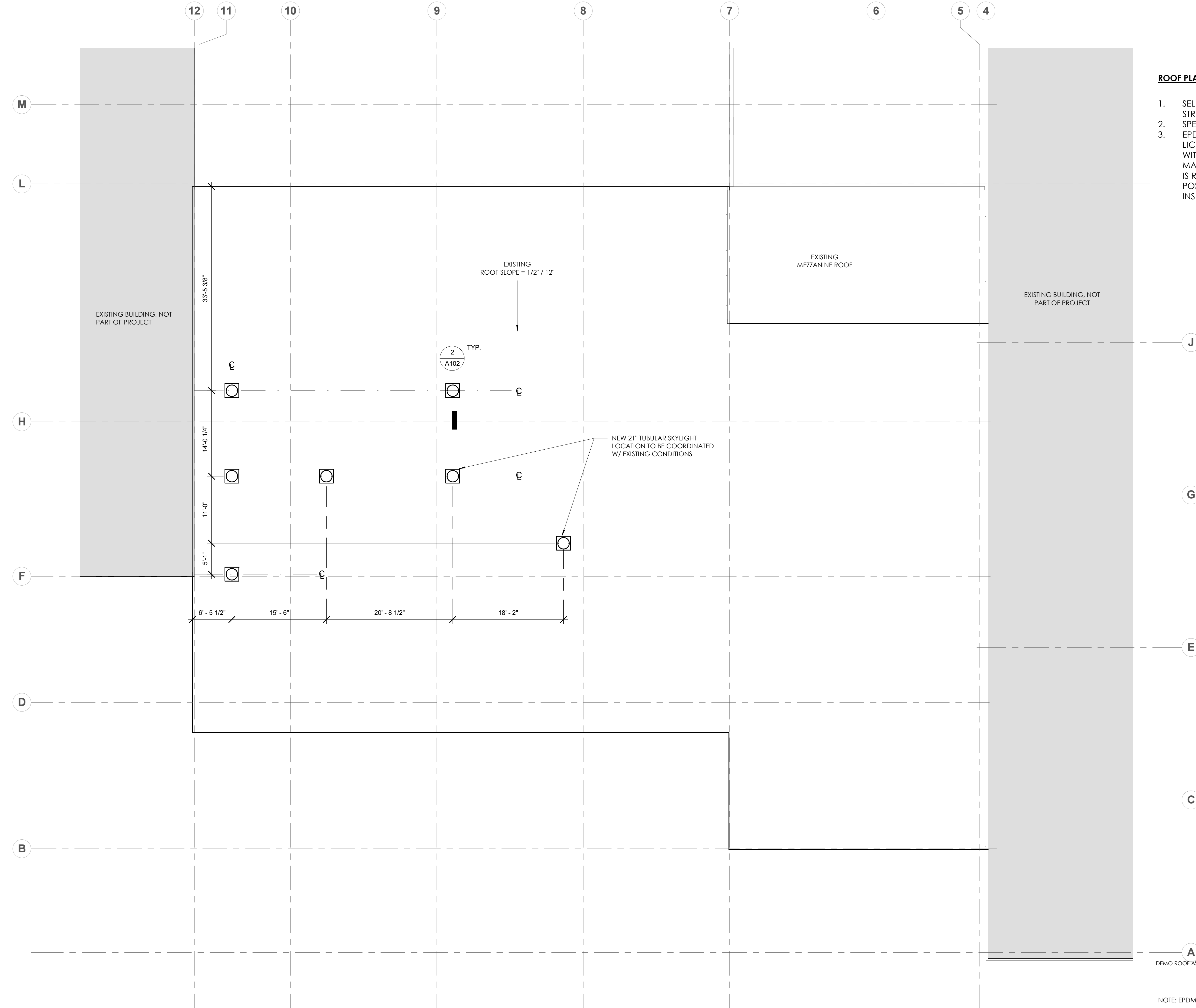
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ROOF PLAN NOTES

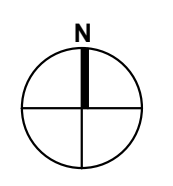
1. SELECTIVE DEMO FOR SKYLIGHTS TO BE COORDINATED W/ STRUCTURAL SYSTEM
2. SPECIFY ROOF PATCH TO MATCH EXISTING ROOF.
3. EPDM ROOF WORK AT NEW SKYLIGHT TO BE DONE BY A LICENSED FIRESTONE CONTRACTOR IN ACCORDANCE WITH FIRESTONES PRODUCT REPAIR GUIDELINES TO MAINTAIN THE CURRENT ROOF WARRANTY. CONTRACTOR IS RESPONSIBLE TO CONTRACT FIRESTONE TO REQUEST A POST WARRANT ALTERATION AND TO PAY THE \$750 INSPECTION FEE.



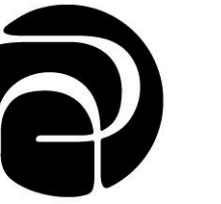
NOTE: EPDM ROOF TO BE PATCHED AS REQ. TO MAINTAIN WARRANTY

2 SECTION SOLATUBE
SCALE: 3/4" = 1'-0"

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



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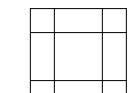
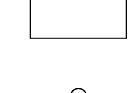
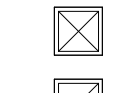
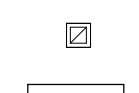
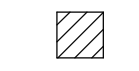



A200

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REFLECTED CEILING PLAN GENERAL NOTES

1. SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING AND EXIT SIGNS.
2. ALL DIMENSIONS ARE FROM FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
3. NEW CEILING GRID SYSTEM SHALL BE 9'-0" ABOVE FLOOR, UNLESS NOTED OTHERWISE.
4. CEILING PANELS SHALL BE CENTERED WITHIN THE ROOM, UNLESS NOTED OTHERWISE.
5. FIXTURES SHALL BE CENTERED WITHIN SOFFITS AND CEILING GRID UNLESS NOTED OTHERWISE.
6. RCP FOR REFERENCE ONLY. SEE SHEET E100 FOR LIGHTING LAYOUT

REFLECTED CEILING PLAN LEGEND

-  GYPSUM BOARD CEILING
-  2x2 ACOUSTICAL PANEL CEILING
-  2x4 PRISMATIC LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  DOWNLIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
-  RETURN REGISTER - SEE MECHANICAL DRAWINGS
-  EXHAUST FAN - SEE MECHANICAL DRAWINGS
-  LINEAR DOWNLIGHT - SEE ELECTRICAL DRAWINGS
-  TUBULAR SKYLIGHT LOCATION



1 NEW OFFICE REMODEL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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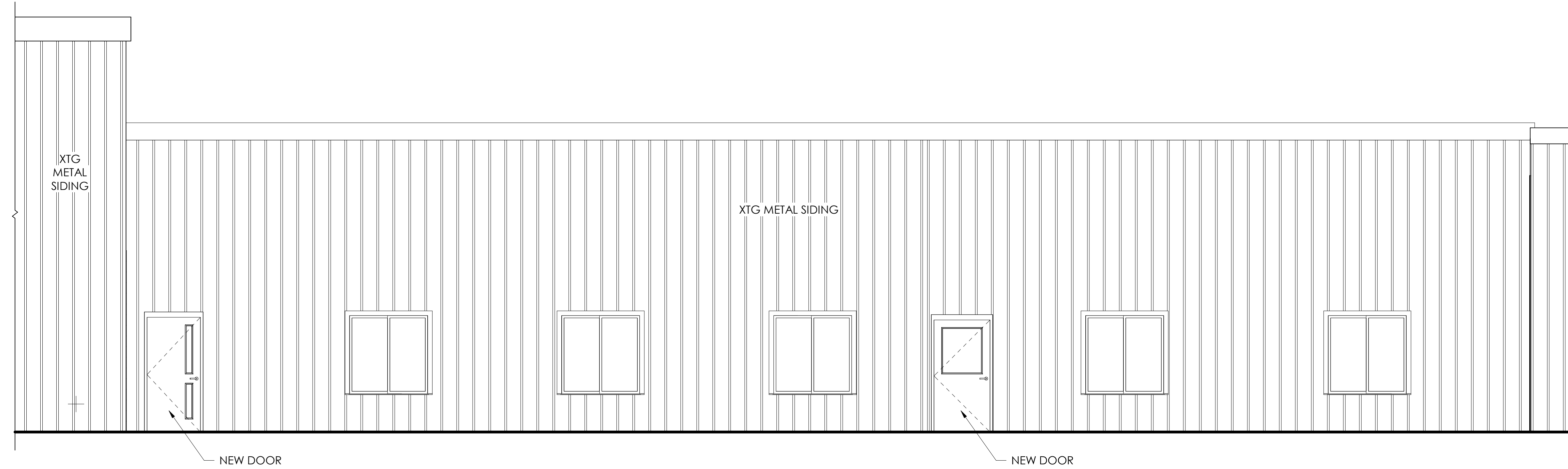
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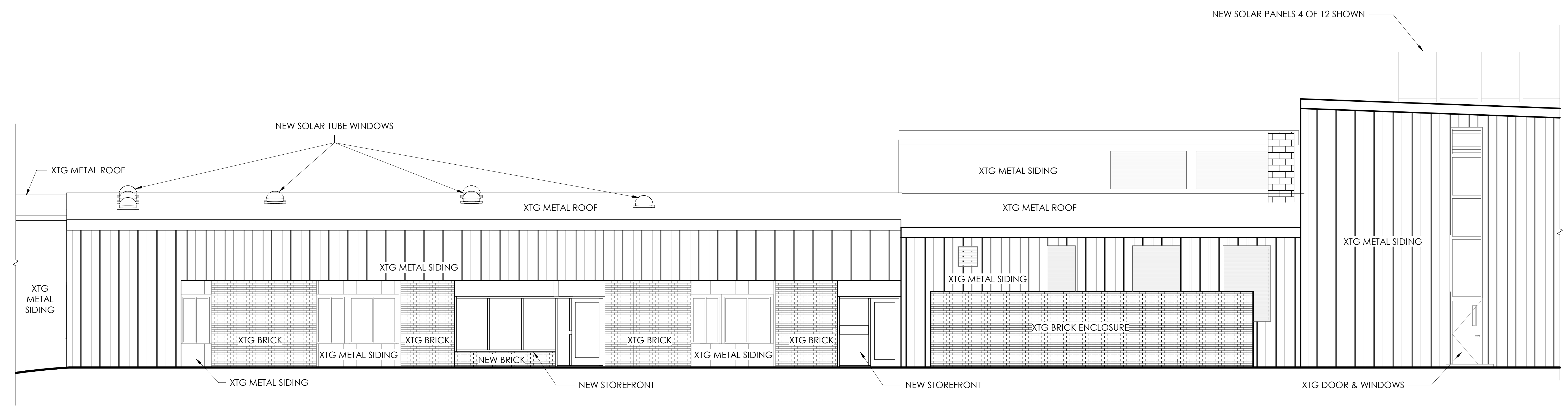
PROJECT #: 171118.00
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1 NORTH WALL
SCALE: 1/4" = 1'-0"



2 SOUTH
SCALE: 3/16" = 1'-0"

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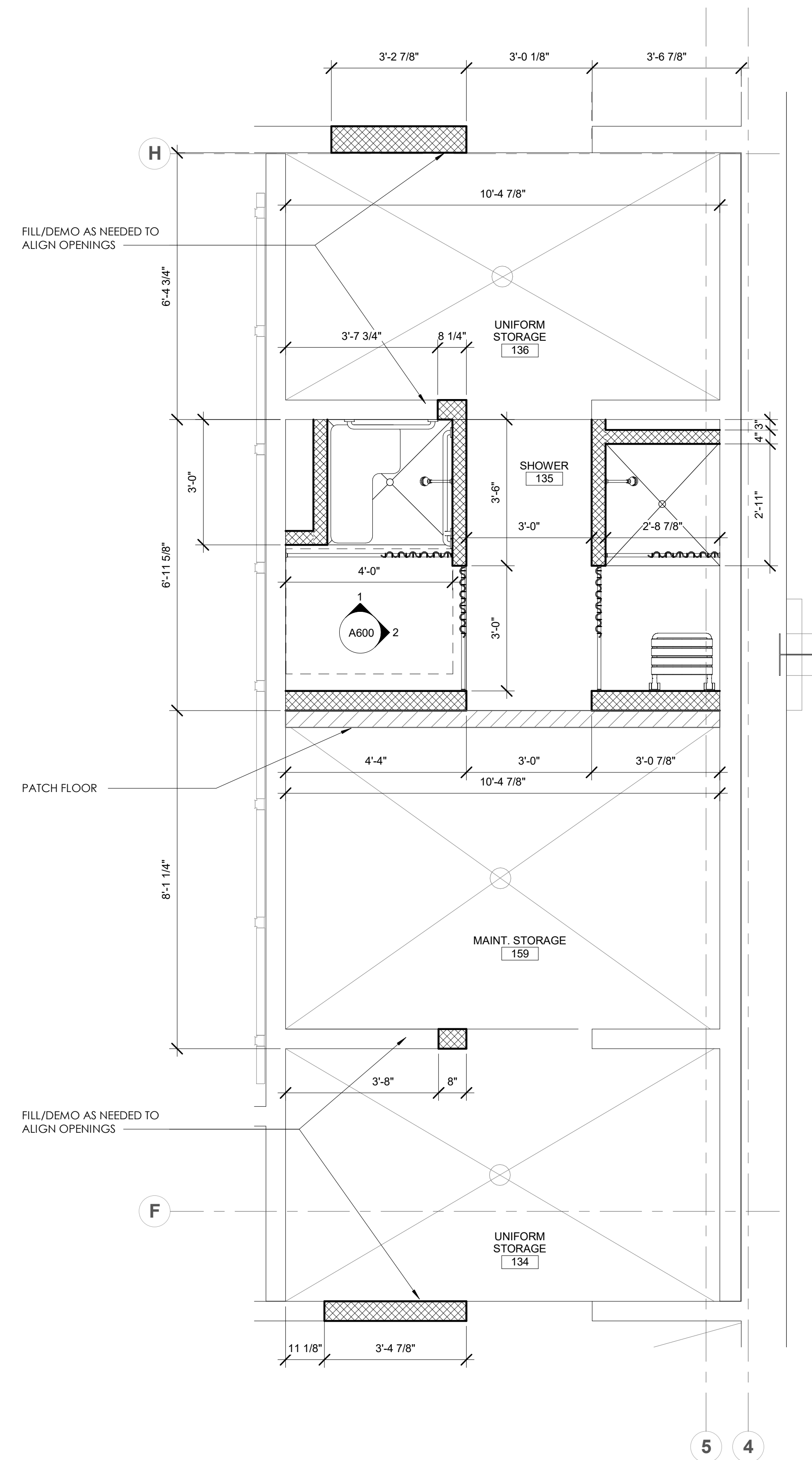
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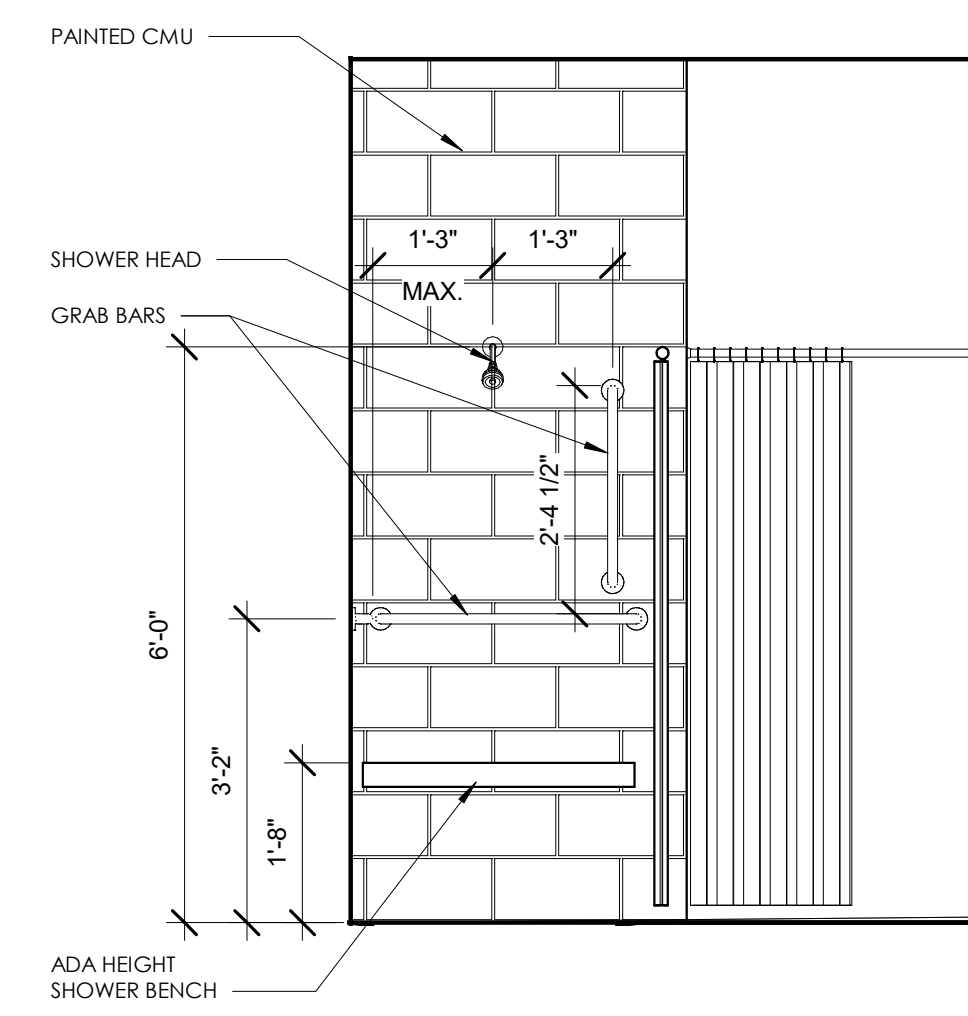
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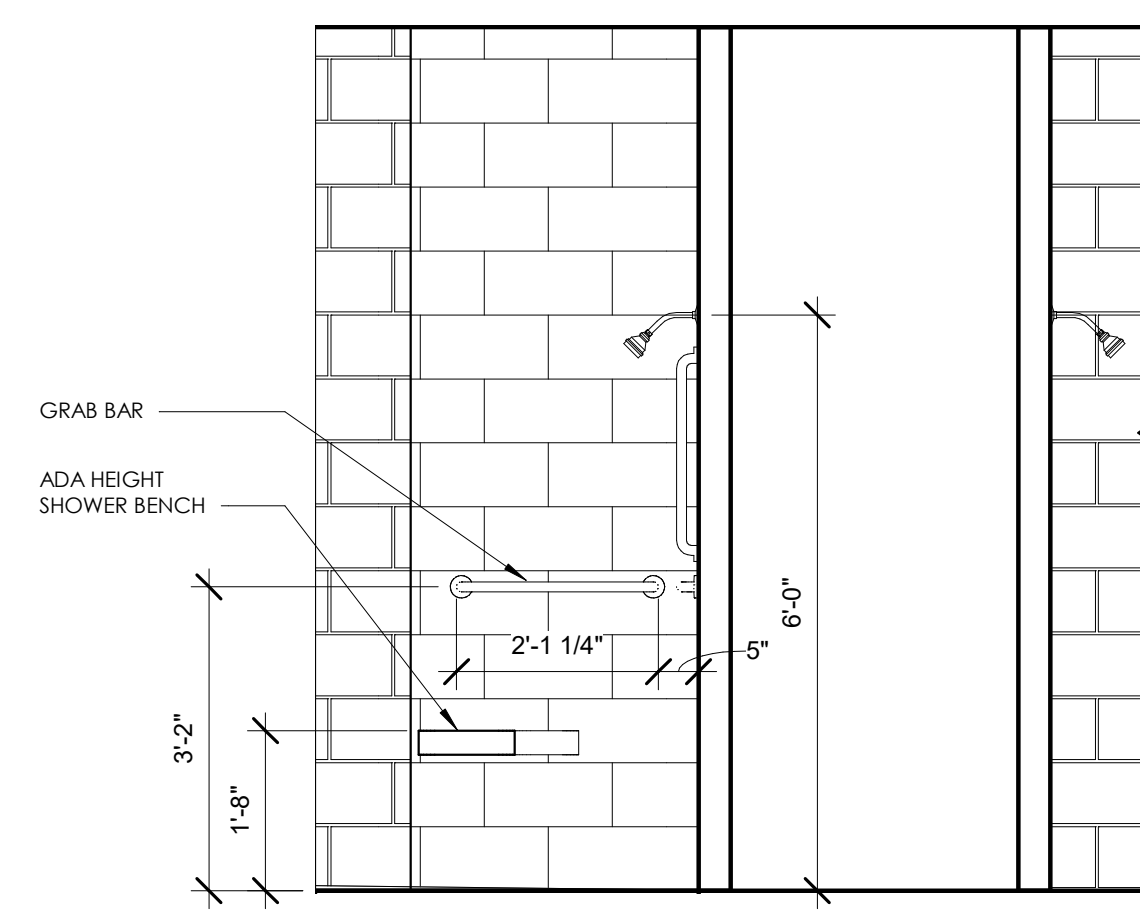
3 SHOWER PLAN
SCALE: 1/2" = 1'-0"

SHOWER PLAN GENERAL NOTES

- 1. SHOWER ACCESSORIES PROVIDED BY OWNER AND INSTALLED BY OWNER, EXCEPT FOR GRAB BARS.

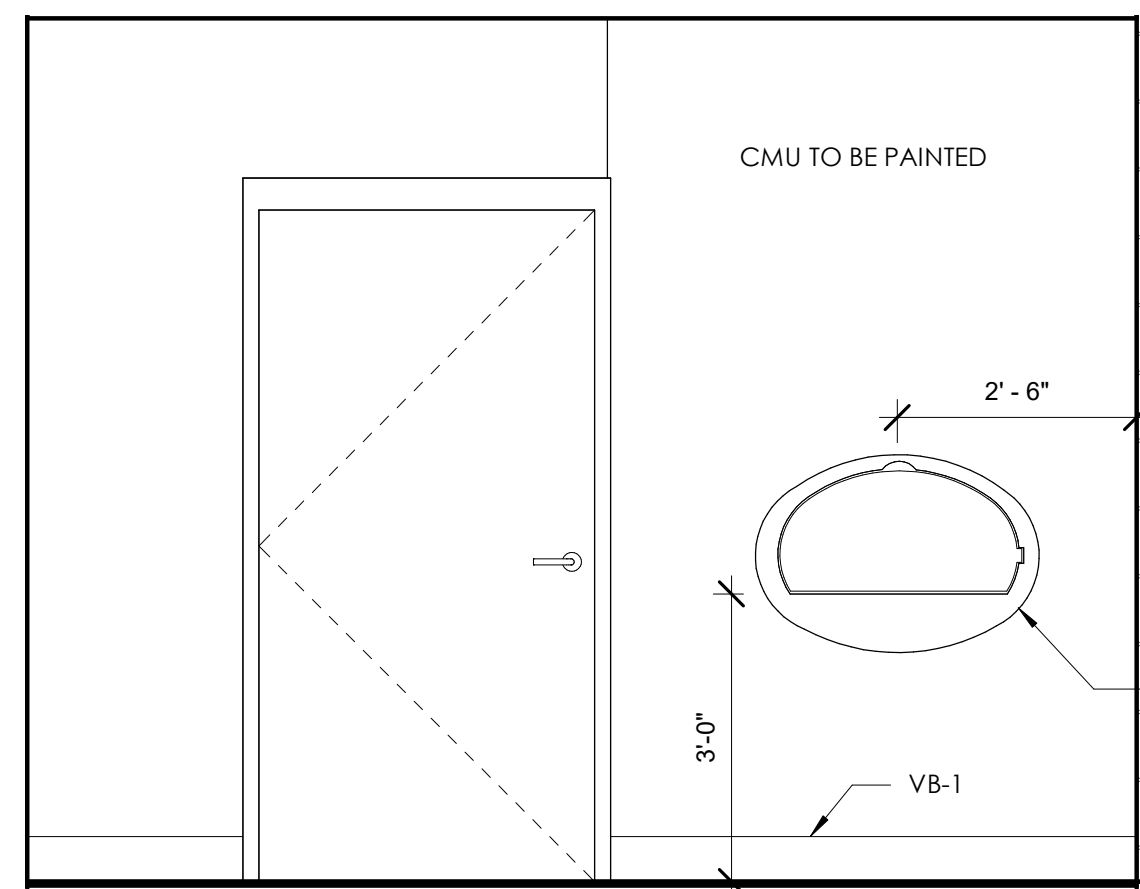


2 EAST ELEVATION ADA SHOWER
SCALE: 1/2" = 1'-0"

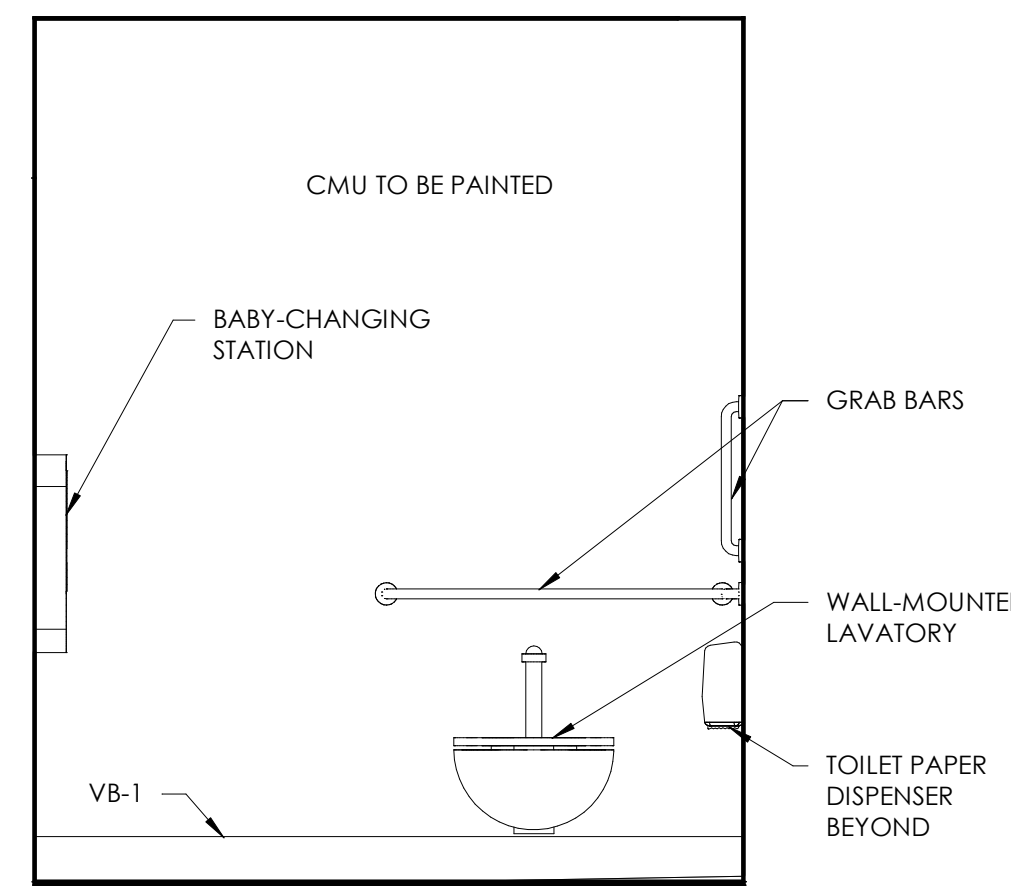


1 NORTH ELEVATION SHOWER
SCALE: 1/2" = 1'-0"

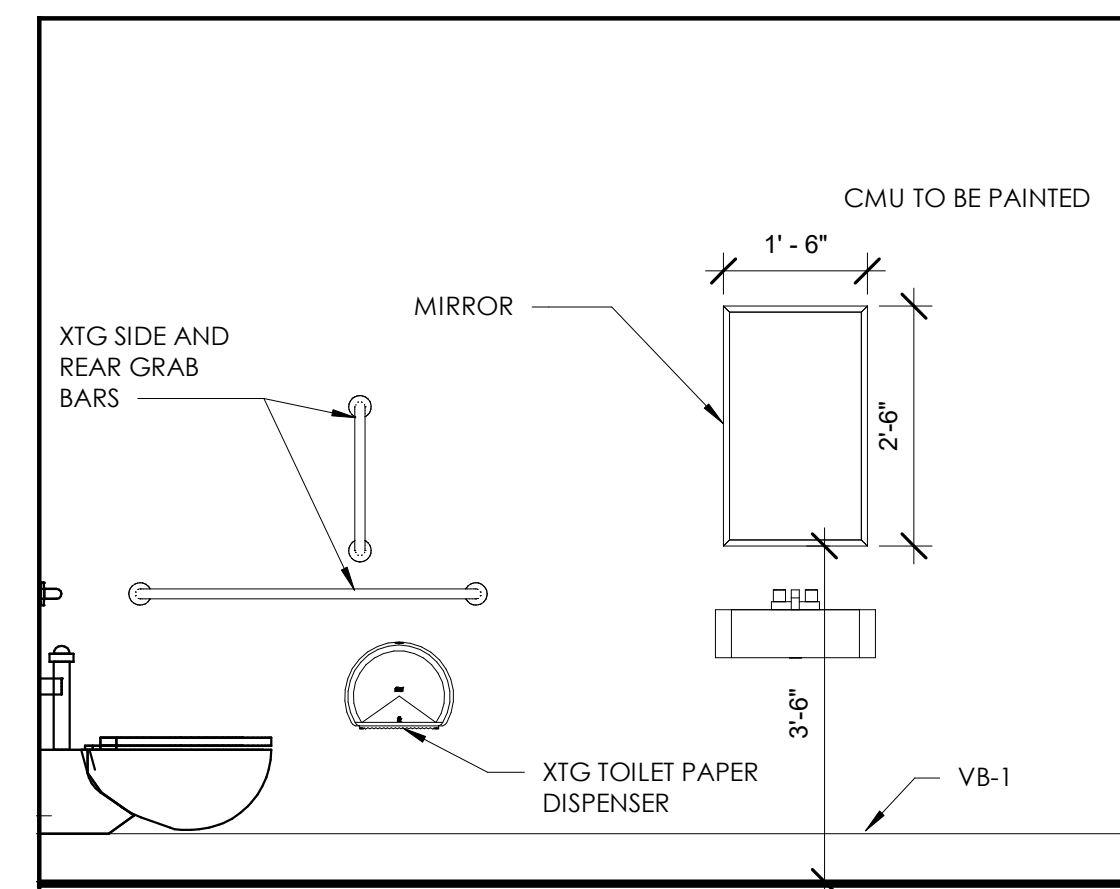
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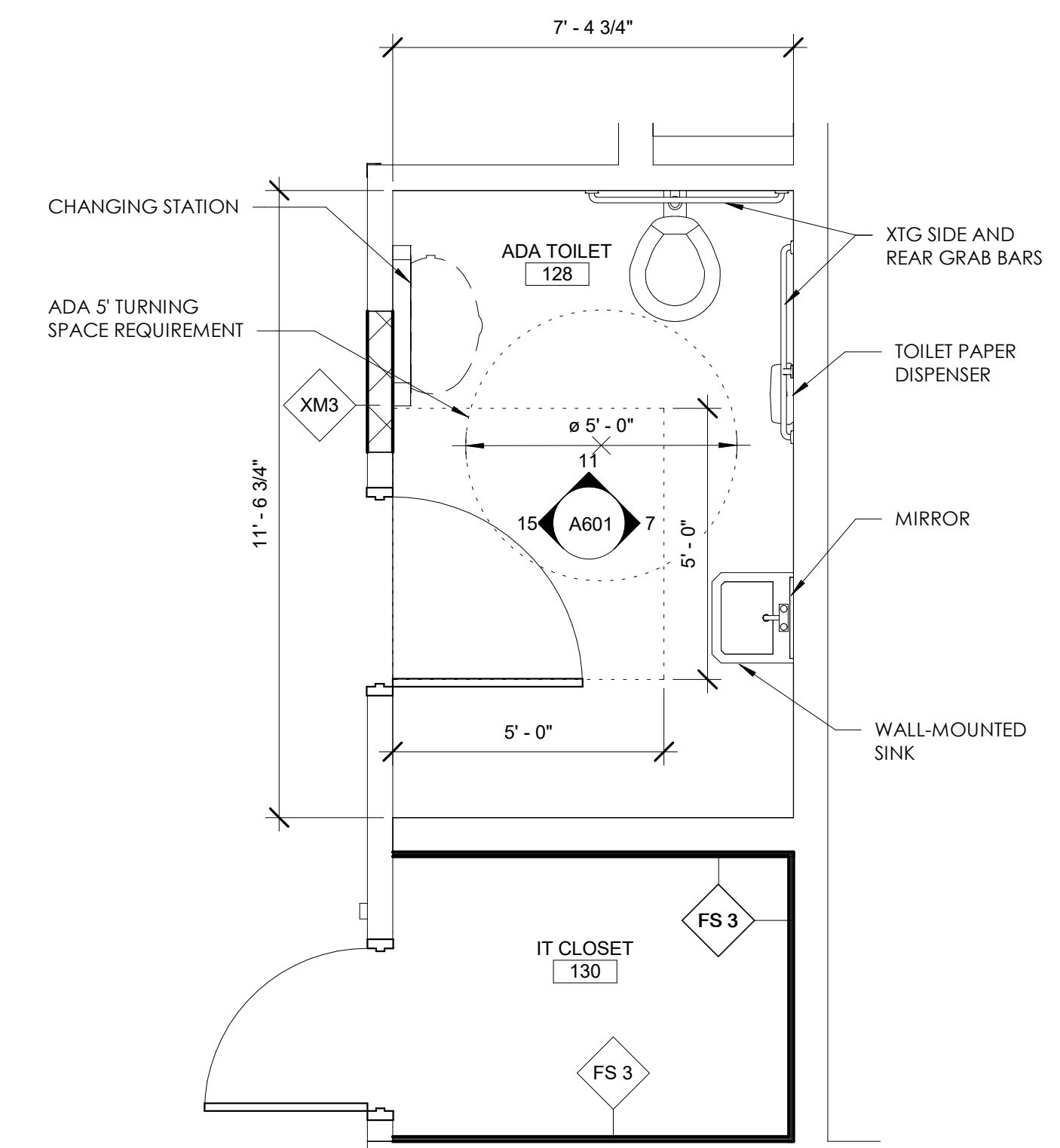
15 ADA BATHROOM WEST
SCALE: 1/2" = 1'-0"



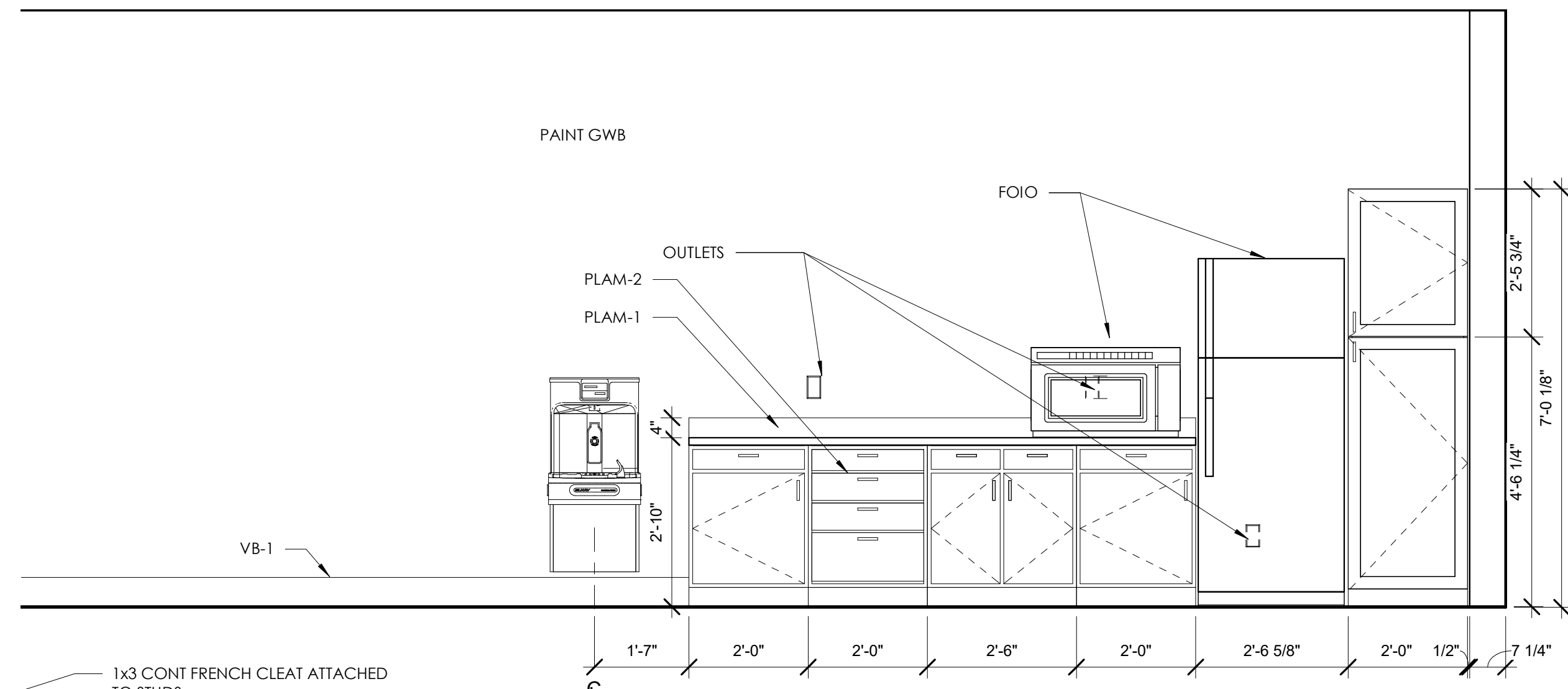
11 ADA BATHROOM NORTH
SCALE: 1/2" = 1'-0"



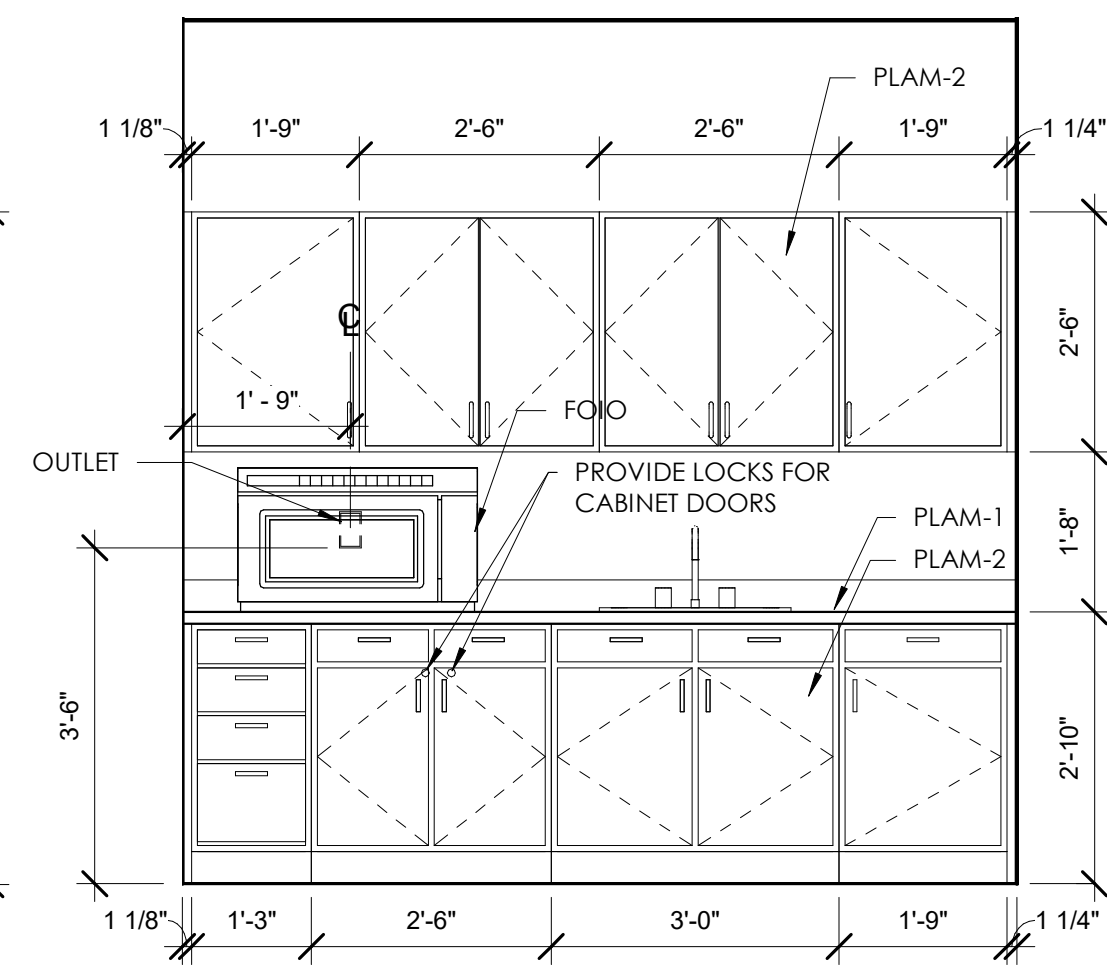
7 ADA BATHROOM EAST
SCALE: 1/2" = 1'-0"



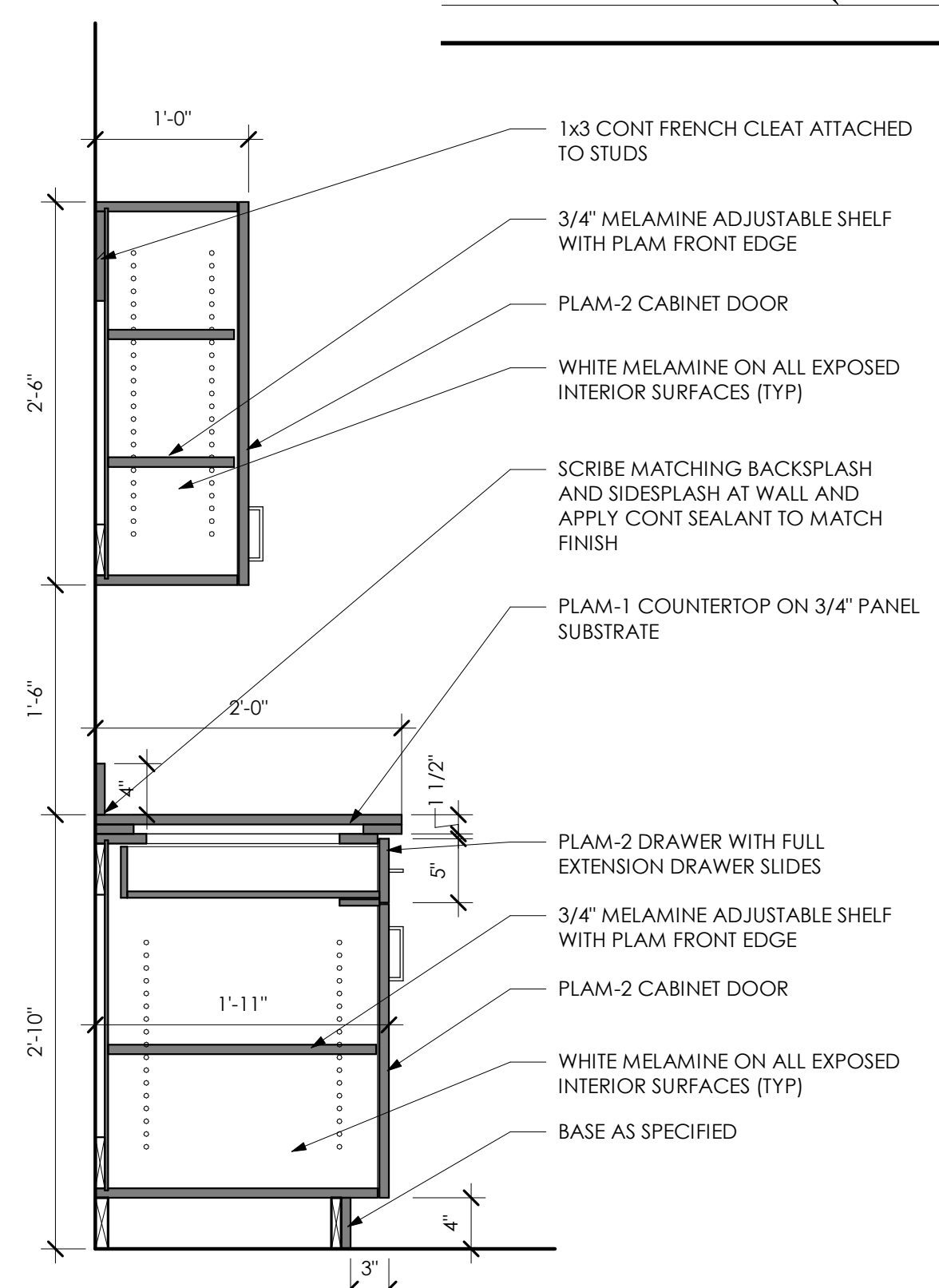
3 CALLOUT- ADA RESTROOM
SCALE: 3/8" = 1'-0"



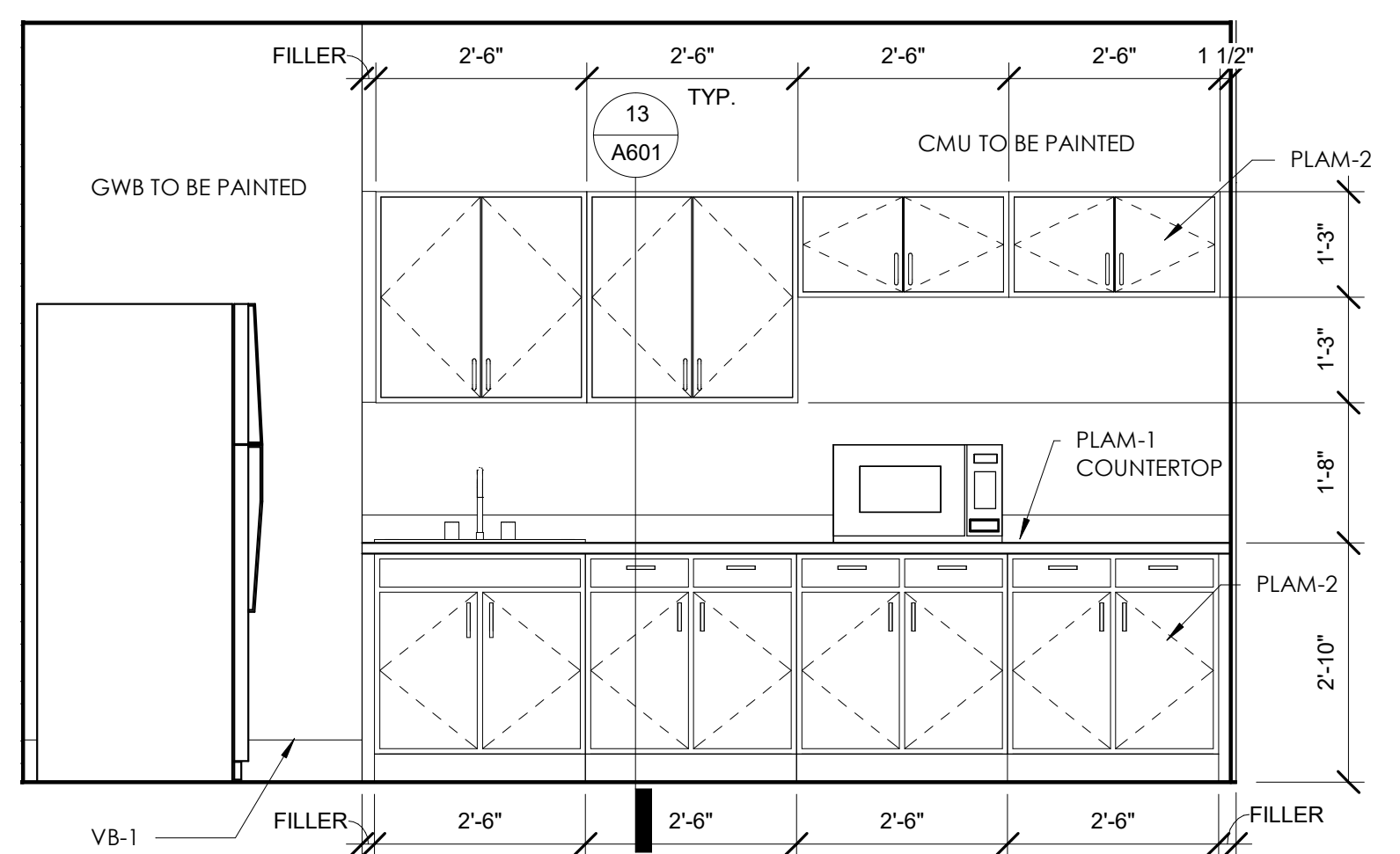
10 PARK LUNCH ROOM ELEVATION RM 111
SCALE: 1/2" = 1'-0"



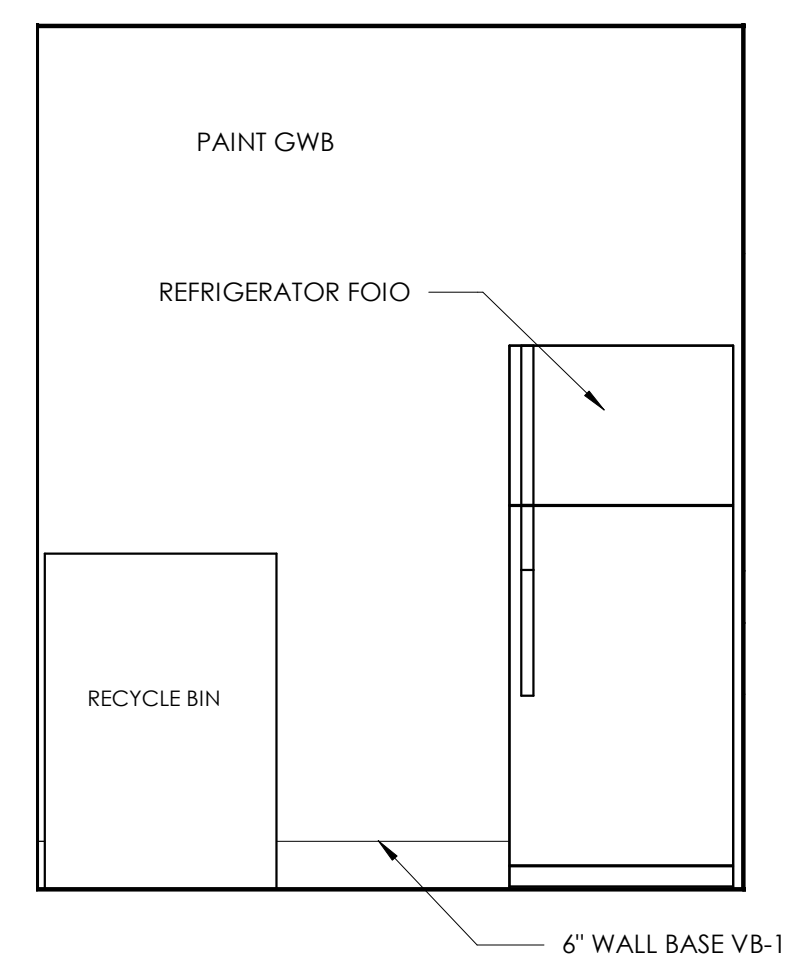
6 ELEVATION 6 - A
SCALE: 1/2" = 1'-0"



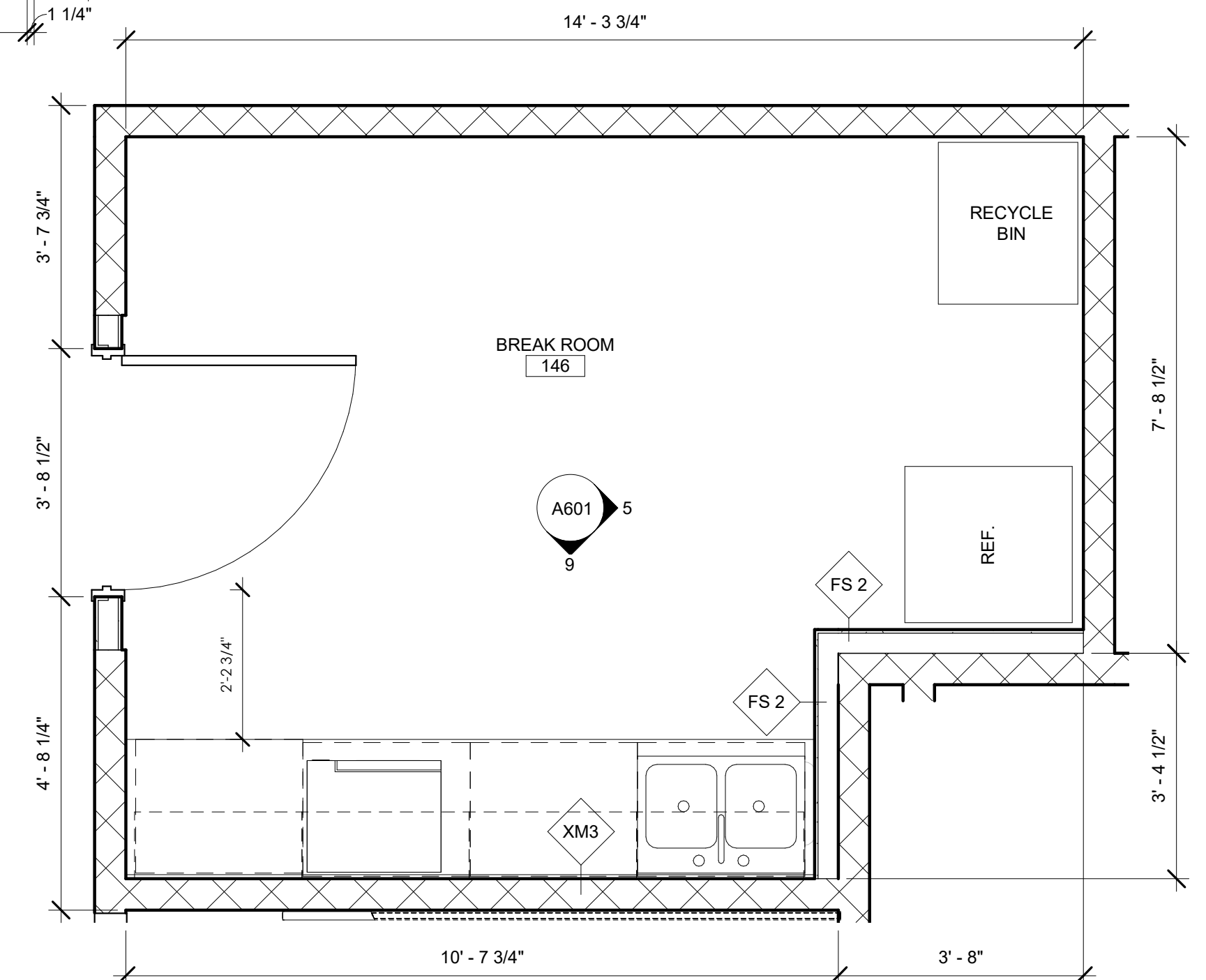
13 SECTION @ KITCHEN SOUTH
SCALE: 1" = 1'-0"



9 KITCHEN SOUTH
SCALE: 1/2" = 1'-0"



5 KITCHEN EAST
SCALE: 1/2" = 1'-0"



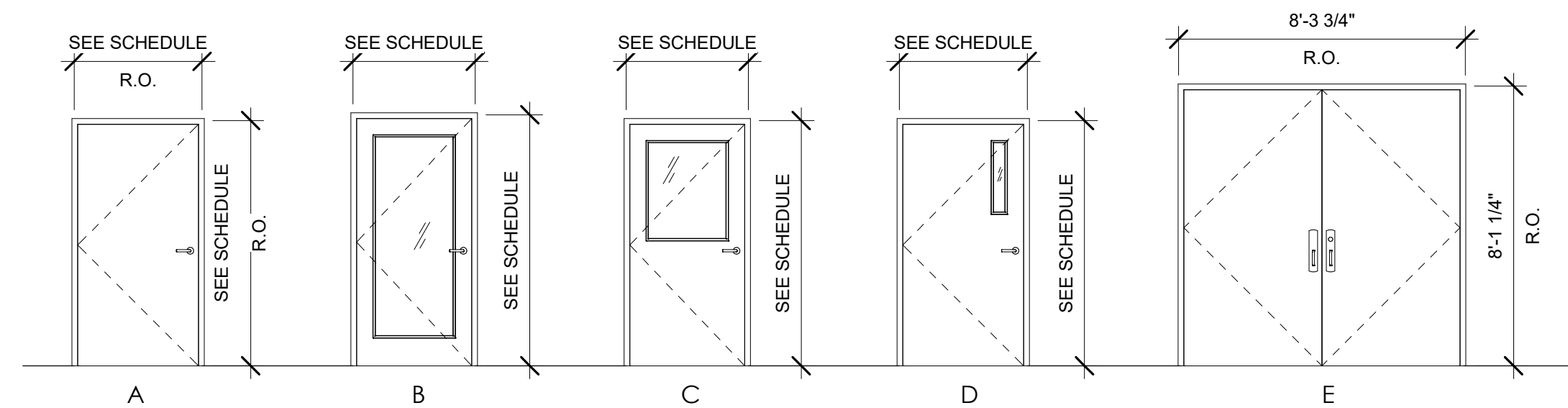
1 NEW KITCHEN PLAN
SCALE: 1/2" = 1'-0"

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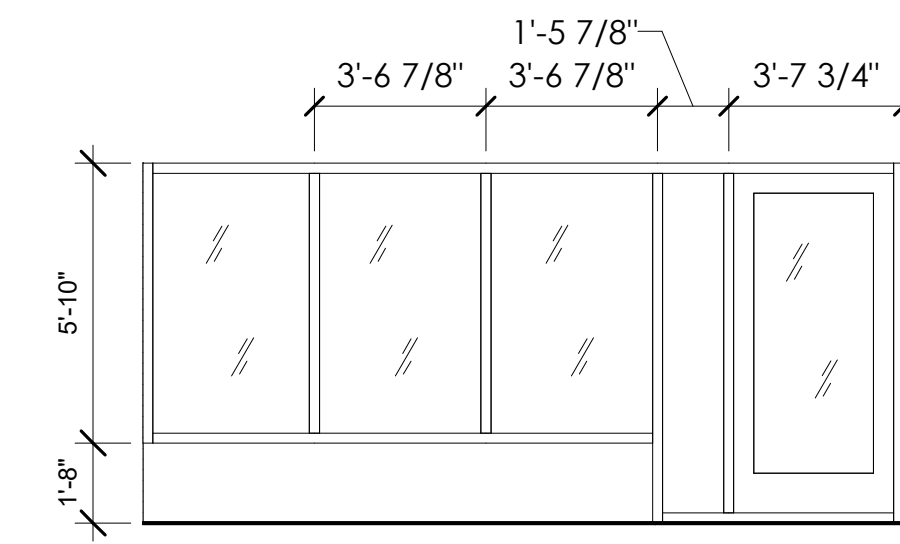
DOOR SCHEDULE												
#	SIZE	THK	MATERIAL	HARDWARE SET	DOOR TYPE	FRAME TYPE	SIDLIGHT	GLASS	LOCK TYPE	RATING	CLOSER	REMARKS
111A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	HM	-	-			YES	
111B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	HM	-	-			YES	
112A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	HM	-	-			YES	
112B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	HM	-	-			YES	
113A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	2	C	HM	-	YES			YES	
113B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	2	C	HM	-	YES			YES	
114A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	3	C	HM	-	YES			YES	
114B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	2	C	HM	-	YES			YES	
115A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	4	A	XTG	-	-			-	
116A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	4	A	XTG	-	-			-	
117A	3' - 0"X7' - 0"	1 3/4"	HM	4	B	HM	-	-			-	
118A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	4	A	HM	-	YES			YES	
120A	3' - 4"X7' - 1"	1 3/4"	KAWNEER-ALUMINUM	12	B		4'-0"	YES			YES	COLOR WHITE
121A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	5	C	HM	-	YES			YES	
121B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	5	C	HM	-	YES			YES	
122A	3' - 0"X7' - 0"	1 3/4"	HM	4	A	HM	12"	-			-	
123A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	7	A	HM	-	-			YES	
124A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	4	A	XTG	-	-			-	
125A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	4	A	HM	-	-			-	
126A	3' - 0"X7' - 3 1/2"	1 3/4"	KAWNEER-ALUMINUM	12	B		-	YES			YES	COLOR WHITE
126B	3' - 0"X7' - 3 1/2"	1 3/4"	KAWNEER-ALUMINUM	13	B		-	YES			YES	
127A	3' - 4"X7' - 2"	1 3/4"	HM-PAINT FINISH-GREY									
128A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	8	A		-	-			YES	W/ LOUVER
129A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH									
129B	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	19	C	HM	-	YES			YES	
129C	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	19	C	HM	-	YES			YES	
130A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	9	A		-	-			YES	
132A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
133A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
133B	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	10	A	XTG	-	-			YES	W/ LOUVER
133C	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
138A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	9	A	XTG	-	-			-	
139A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A		-	-			YES	W/ LOUVER
142A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
142B	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
143A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	1	A	XTG	-	-			YES	W/ LOUVER
146A	3' - 6"X7' - 0"	1 3/4"	WOOD-BIRCH	11	B	HM	-	-			YES	W/ LOCK
147A	8' - 0"X8' - 0"	1 3/4"	HM-PAINT FINISH-GREY	16	E		-	-		3hr	-	
147B	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	17	D	XTG	-	YES			YES	W/ LOUVER
158A	3' - 0"X7' - 0"	1 3/4"	WOOD-BIRCH	15	A	XTG	-	-			YES	

DOOR NOTES:

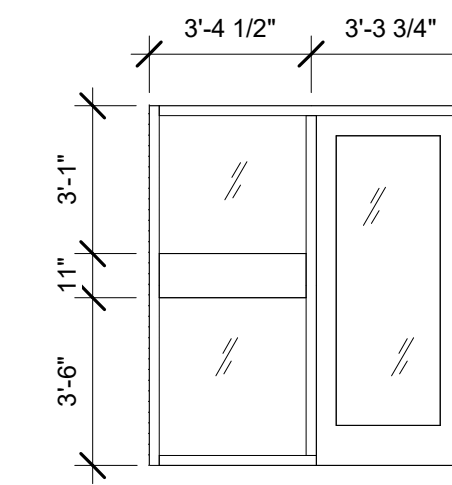
- SEE SPECIFICATIONS FOR HARDWARE SET INFORMATION.
- HOLLOW METAL DOOR FRAMES PAINTED TO MATCH ADJACENT WALL.
- GLASS AT DOORS & SIDELIGHTS TO BE TEMPERED AS REQUIRED BY CODE.



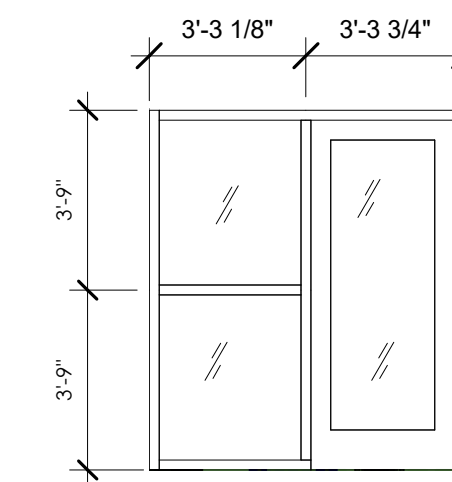
6 DOOR TYPES - ELEVATION
SCALE: 1/4" = 1'-0"



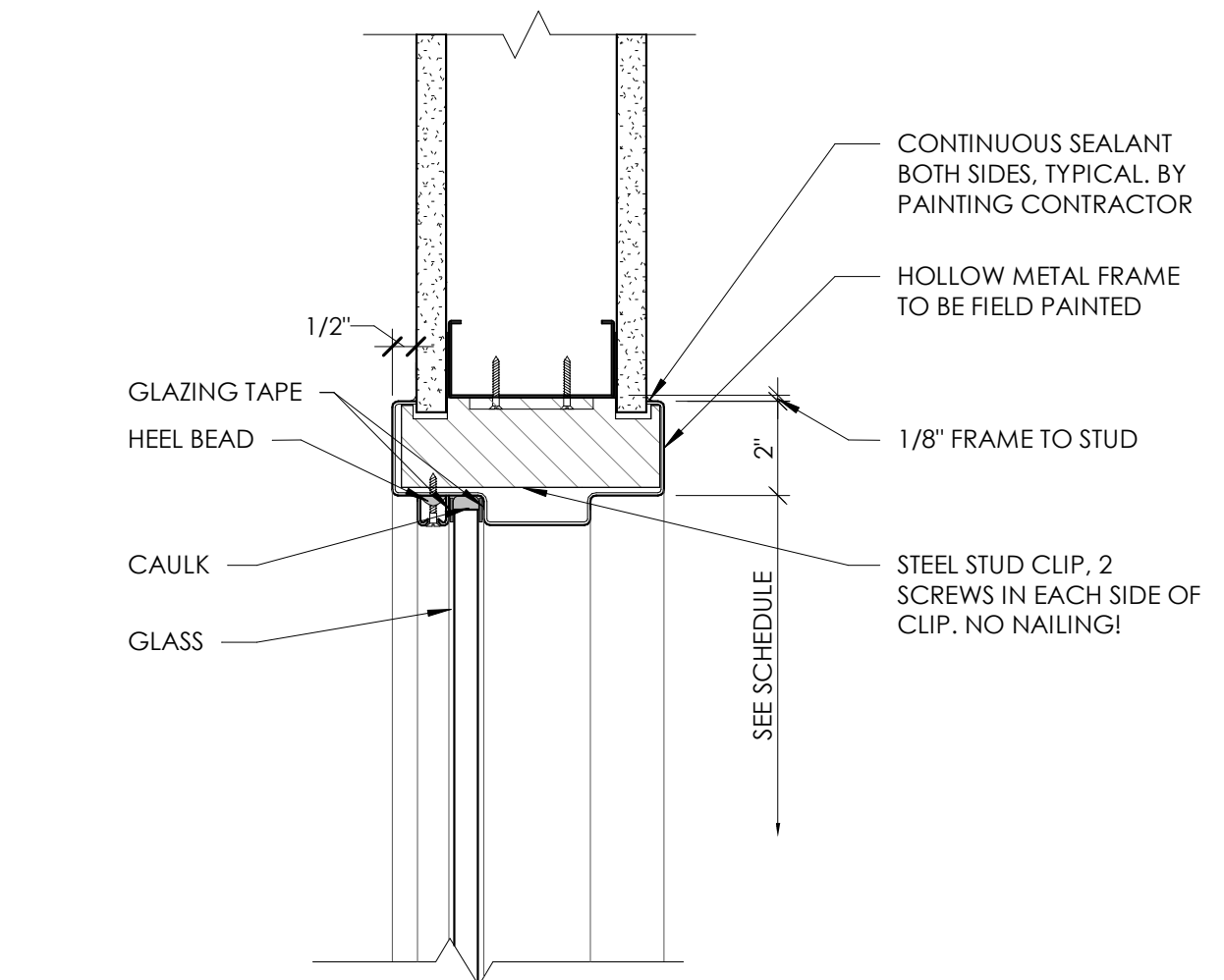
5 STOREFRONT AT ENTRANCE 120B
SCALE: 1/4" = 1'-0"



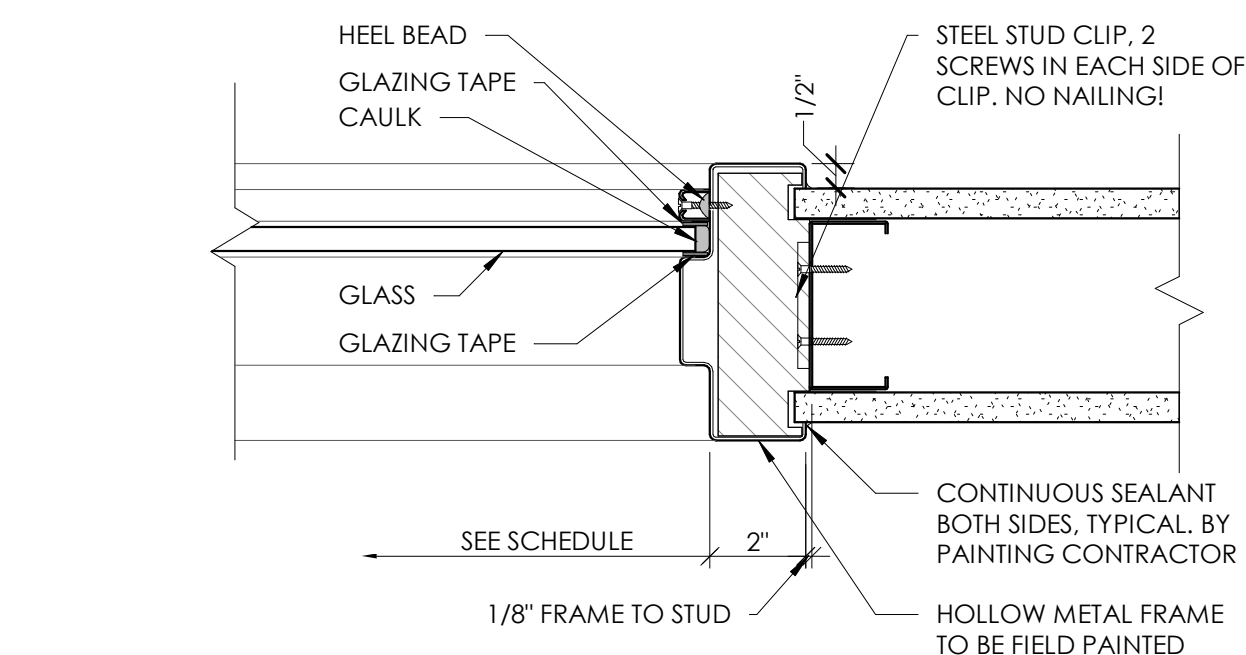
4 STOREFRONT AT ENTRANCE 126A
SCALE: 1/4" = 1'-0"



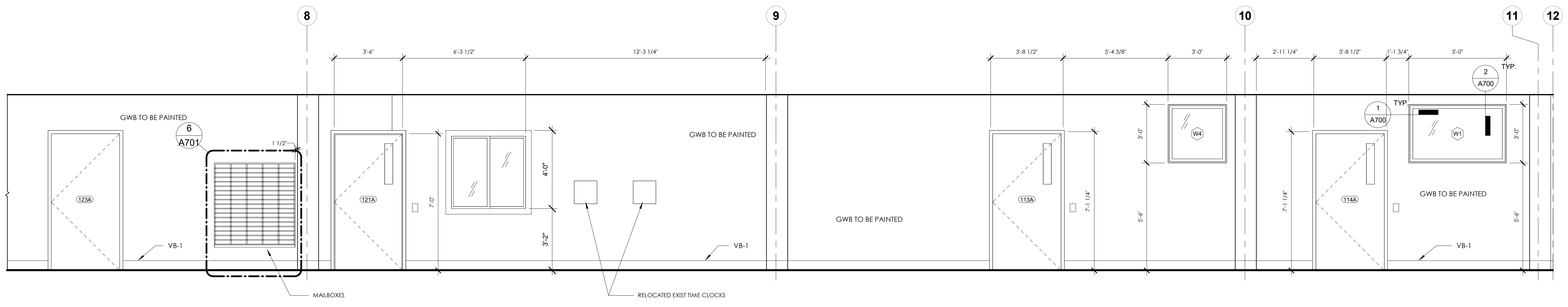
3 INTERIOR STOREFRONT VEST. 126
SCALE: 1/4" = 1'-0"



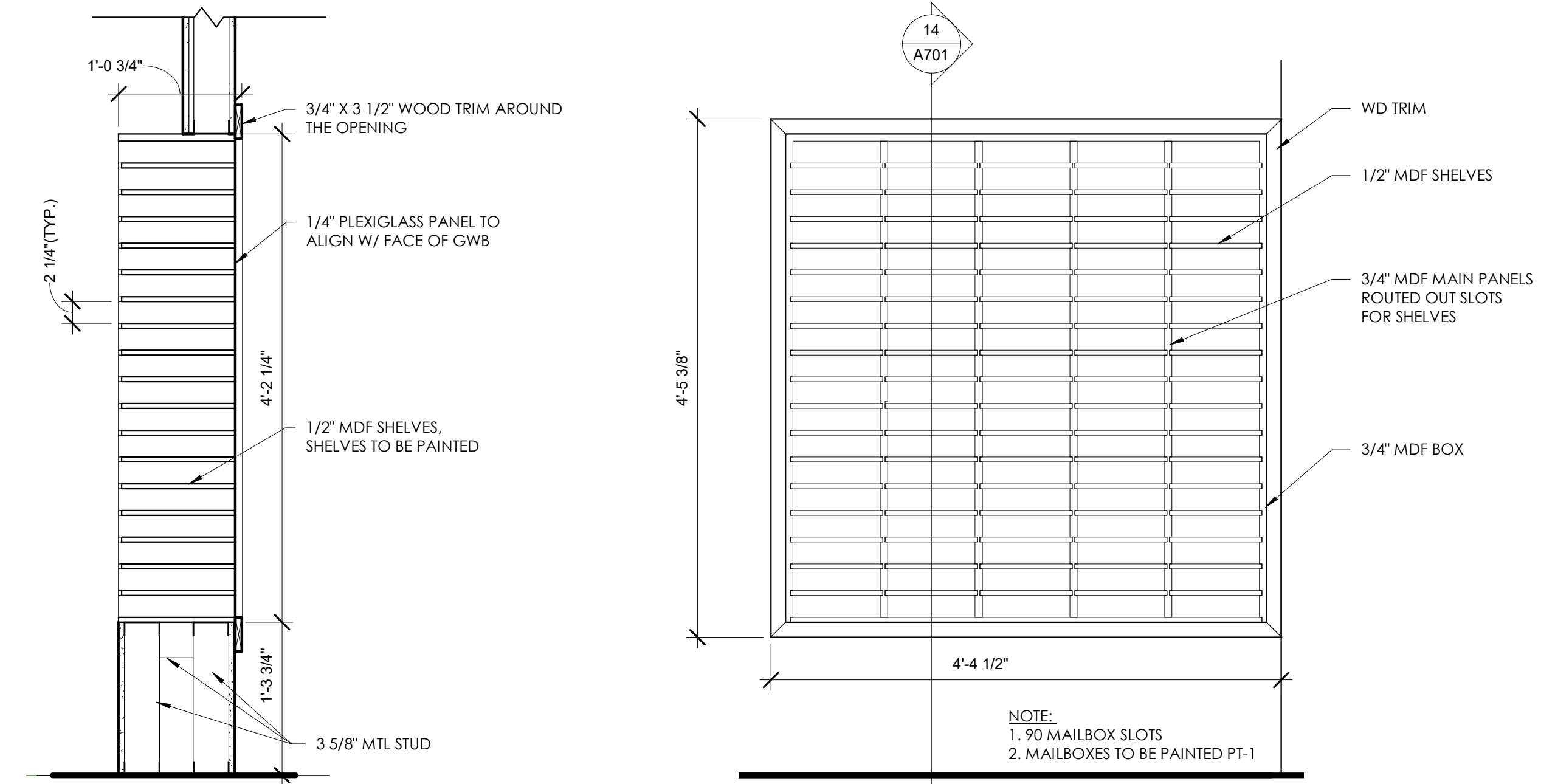
2 HM WINDOW HEAD DETAIL
SCALE: 3\"/>



1 HM WINDOW JAMB DETAIL
SCALE: 3\"/>

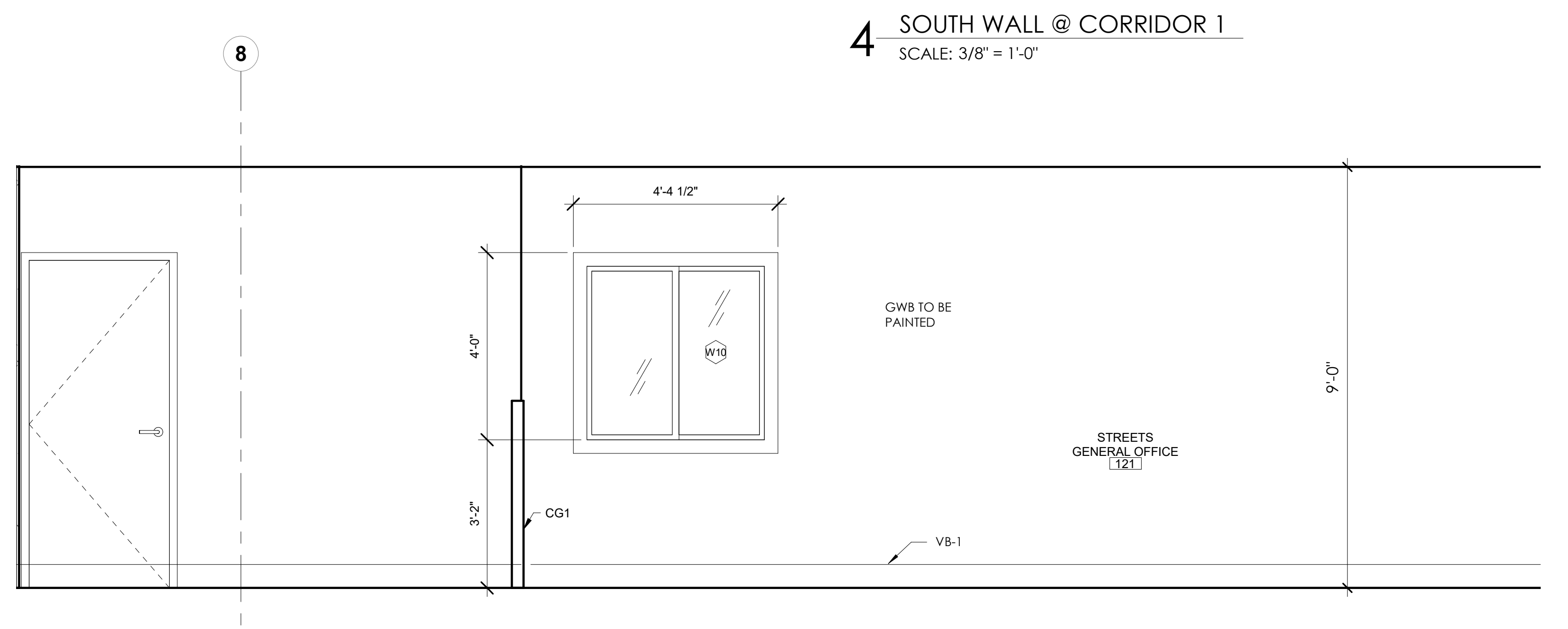


4 SOUTH WALL @ CORRIDOR 1
SCALE: 3/8" = 1'-0"

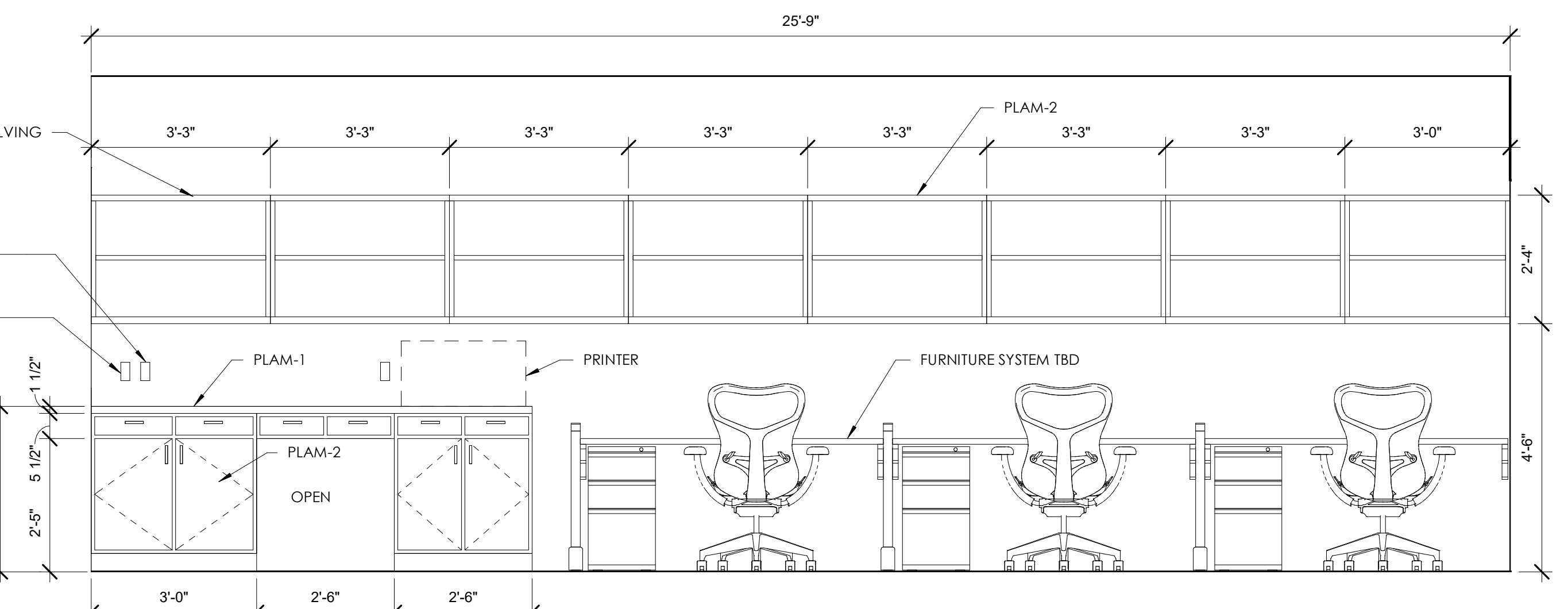


14 MAILBOX SECTION
SCALE: 1" = 1'-0"

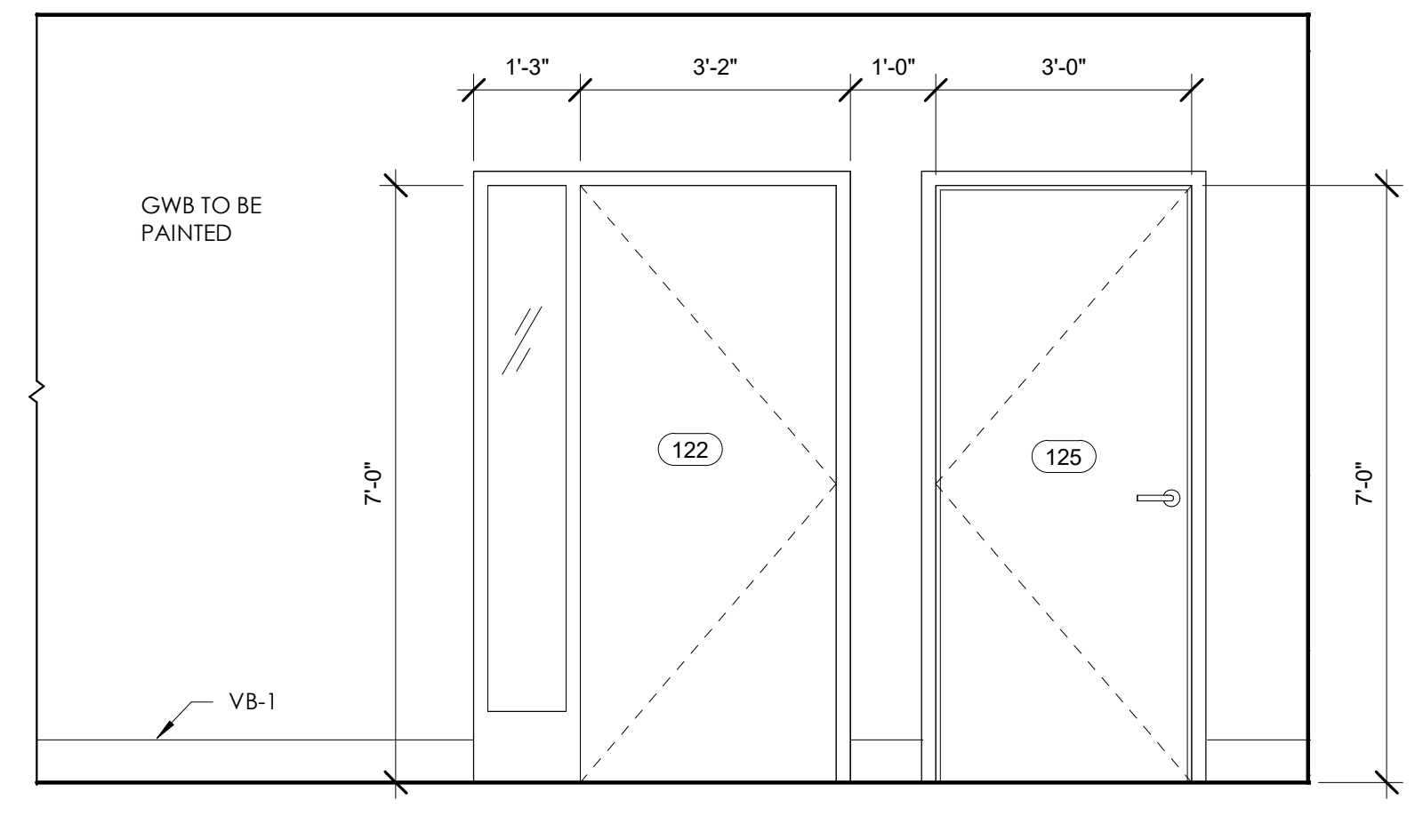
6 MAILBOX ELEVATION
SCALE: 1" = 1'-0"



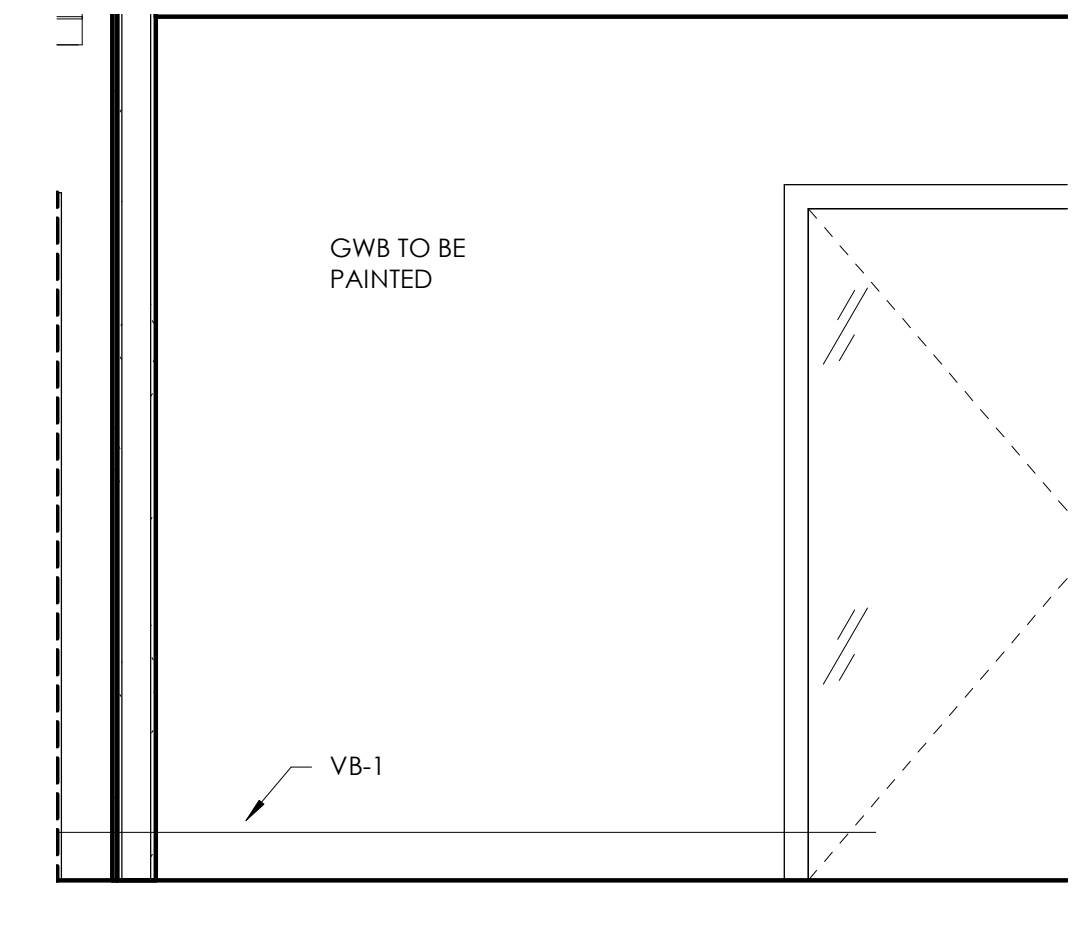
3 WINDOW ELEV. SOUTH @ STREETS GENERAL OFFICE
SCALE: 1/2" = 1'-0"



5 WEIGHTS & MEASURES - WEST
SCALE: 1/2" = 1'-0"



2 WEST WALL ELEV. EAST OFFICE 121
SCALE: 1/2" = 1'-0"



1 NORTH ELEVATION CONF. ROOM 118
SCALE: 1/2" = 1'-0"

5/22/2019 10:52:17 AM \\dale1\homes\lhadkesson\Documents\EStreets_Office remodel_central_Lana@destreearchitects.com.rvt



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ISSUANCES:
05-15-2019 BID SET

PROJECT #: 171118.00
SHEET NUMBER

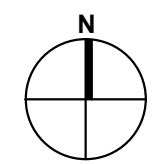
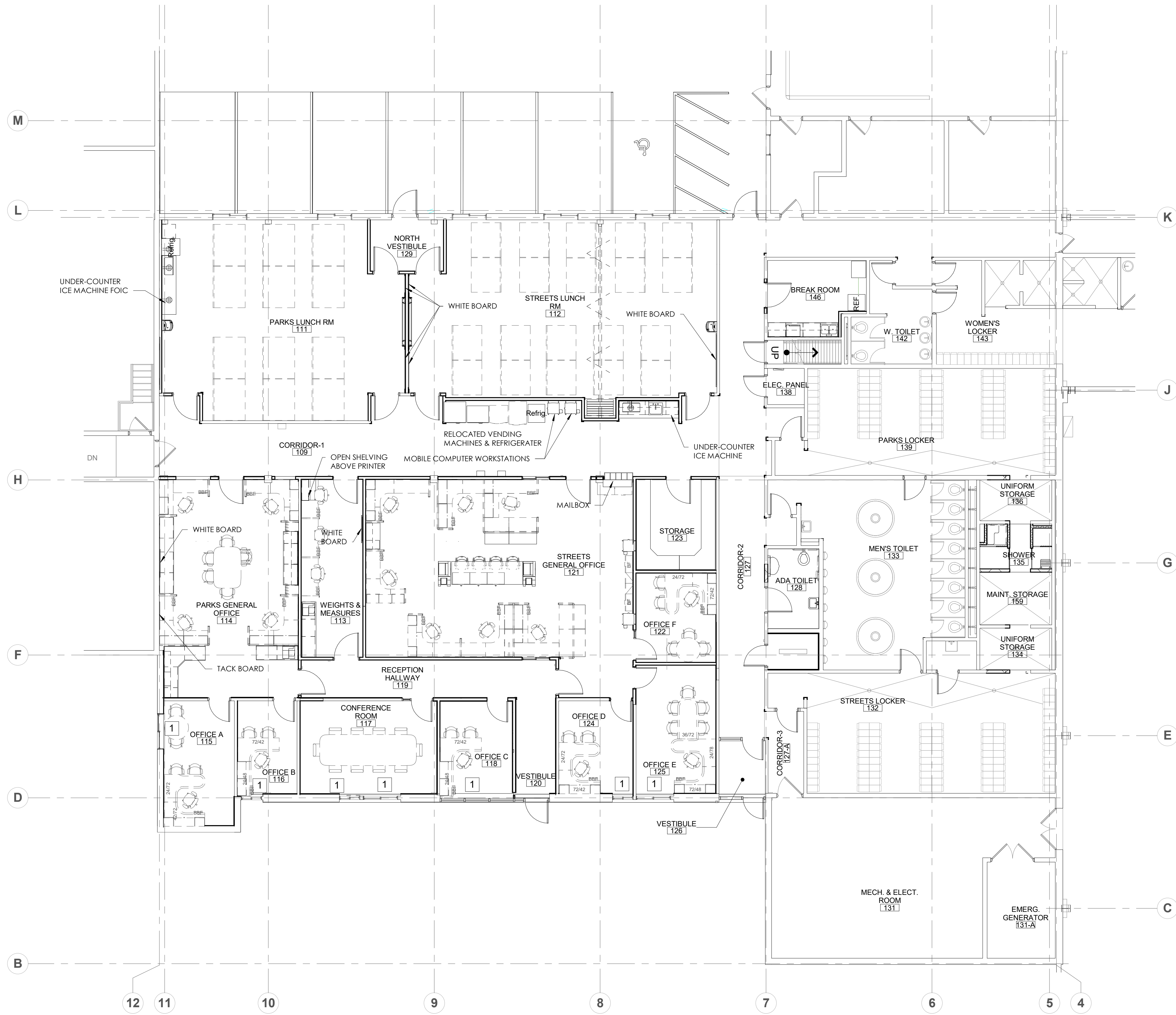
A901

FURNITURE PLAN GENERAL NOTES

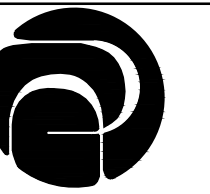
1. FURNITURE, TACK BOARD AND WHITE BOARD TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER.
2. FURNITURE SHOWN FOR REFERENCE ONLY. COORDINATE POWER REQUIREMENTS W/ OWNER.

FURNITURE PLAN KEYNOTES

- 1 PROVIDE BLACKOUT SHADES, CFCI



1 FIRST FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"



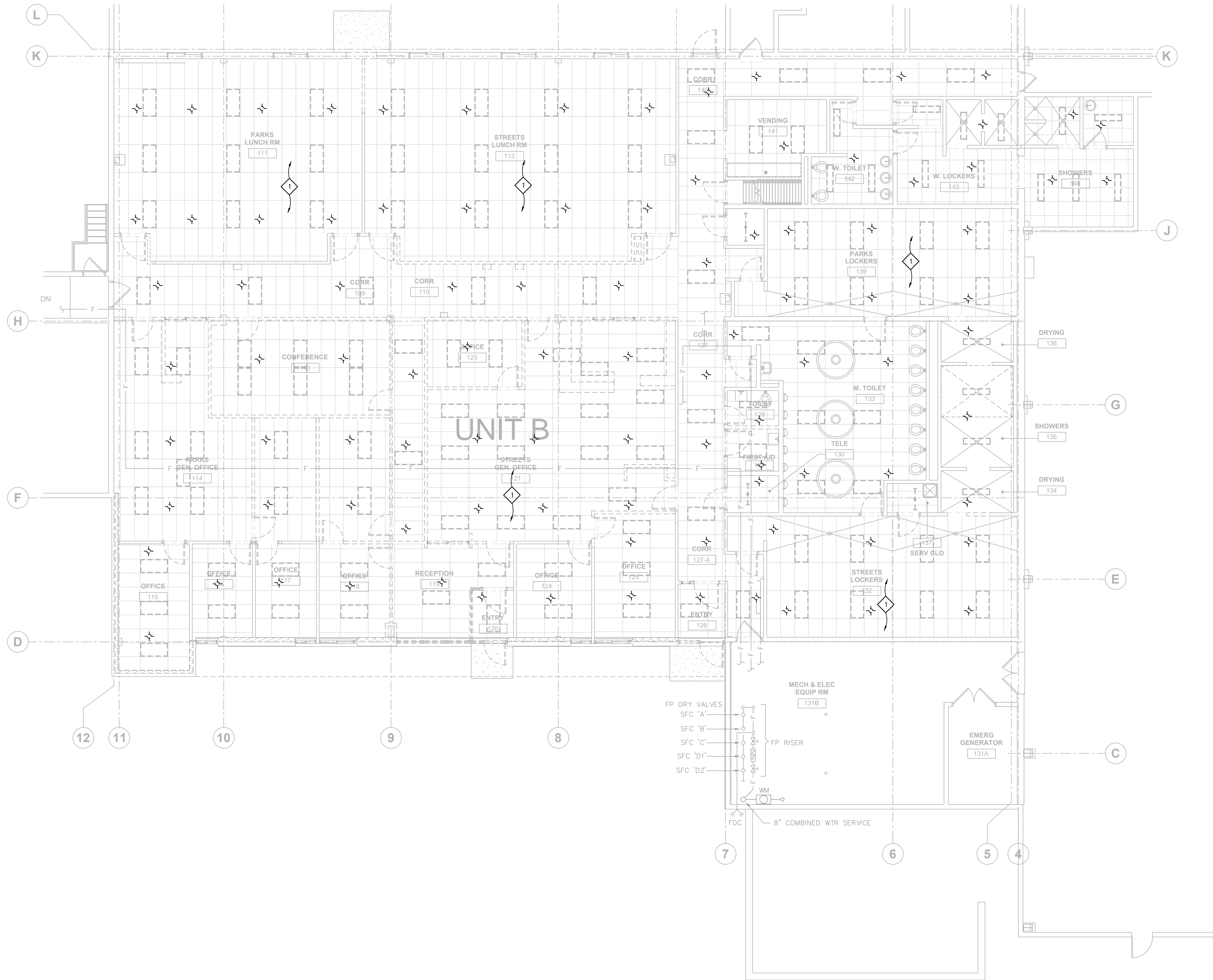
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FIRE PROTECTION GENERAL NOTES:

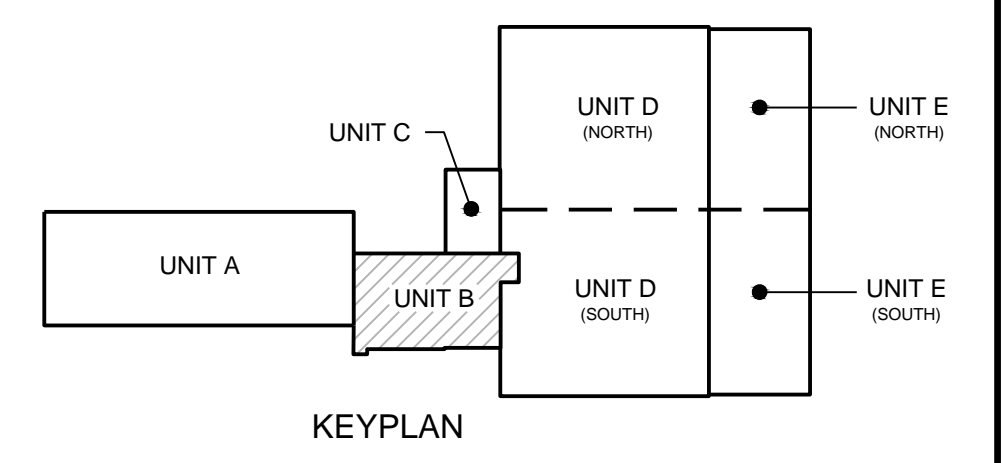
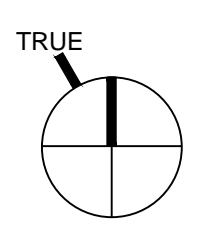
1. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF FIRE PROTECTION WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL FIRE PROTECTION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. NOTE: EXISTING SPRINKLER HEADS ARE STANDARD RESPONSE TYPE.
4. REUSE EXISTING FIRE PROTECTION BRANCH PIPING TO FULLEST EXTENT.

FIRE PROTECTION DEMOLITION PLAN NOTES:

- ◆ DISCONNECT EXISTING SPRINKLER HEAD AND BRANCH PIPING. PROTECT PIPING FOR CONTINUATION WITH NEW FIRE PROTECTION PLAN.

FIRE PROTECTION SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
◆	DEMO CEILING SEMI-RECESSED SPRINKLER
+	EXISTING CEILING SEMI-RECESSED SPRINKLER

1 UNIT B - FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"

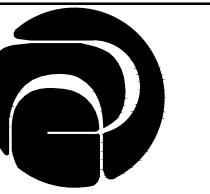


ISSUANCES:
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UNIT B -
FIRE
PROTECTION
DEMOLITION
PLAN

PROJECT #: H1620
SHEET NUMBER

DFP100



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BID SET 5-15-2019

UNIT B -
FIRE
PROTECTION
PLAN

PROJECT #: H1620
SHEET NUMBER

FP100

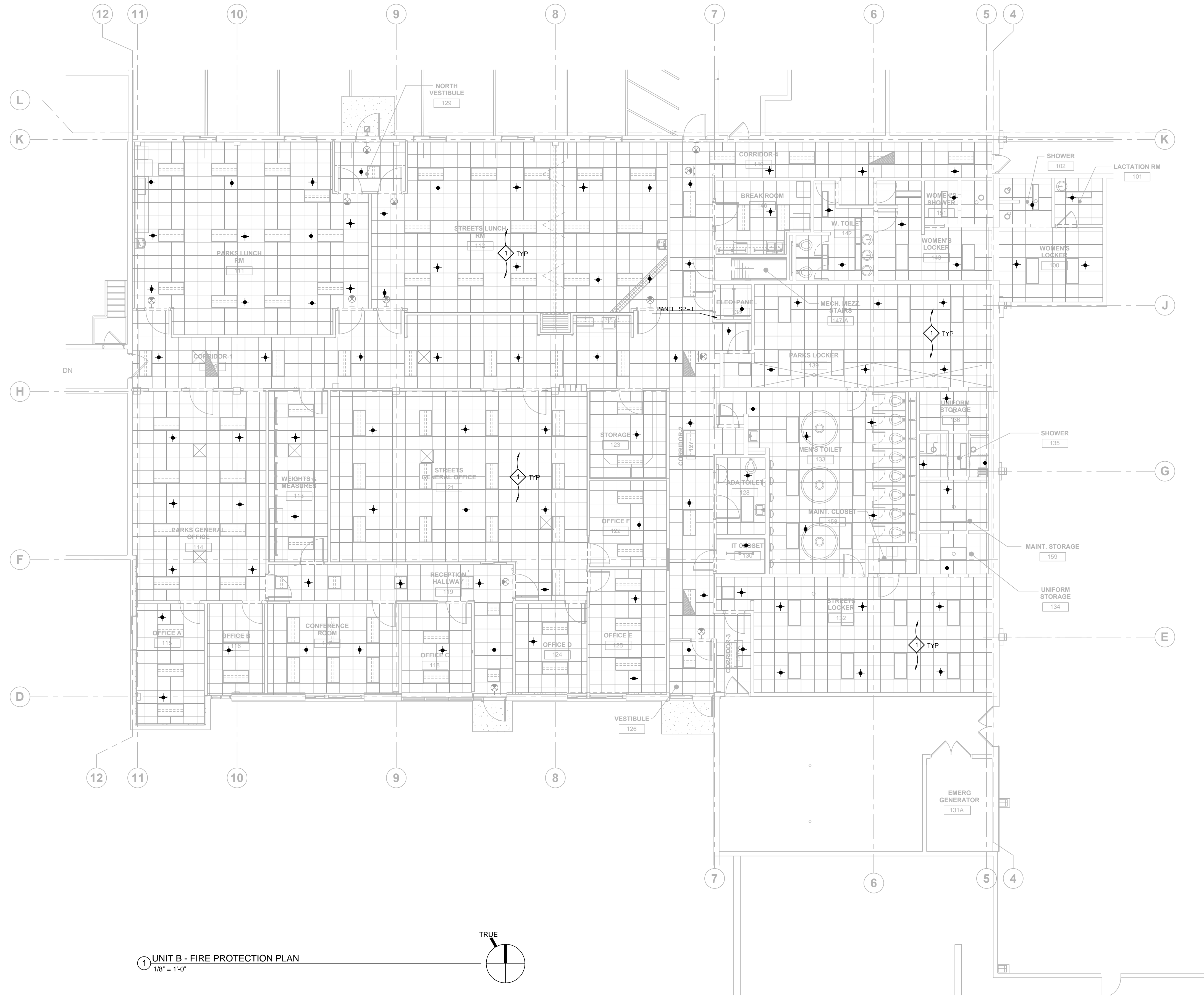
FIRE PROTECTION GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF FIRE PROTECTION WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL FIRE PROTECTION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE HYDRAULICALLY CALCULATED WET SPRINKLER SYSTEM. COORDINATE DESIGN WITH OTHER TRADES AND GENERAL CONTRACTOR.
4. THE SPRINKLER DESIGN SHALL MEET REQUIREMENTS OF NFPA 13 AND LOCAL FIRE MARSHAL/INSPECTOR FOR APPROVAL.
5. DESIGN BASIS GENERAL SPACE: LIGHT HAZARD (0.10 GPM/SFZO).
6. REUSE EXISTING FIRE PROTECTION BRANCH PIPING TO FULLEST EXTENT.
7. CENTER NEW FP HEADS IN CEILING TILE WIDTH (24").

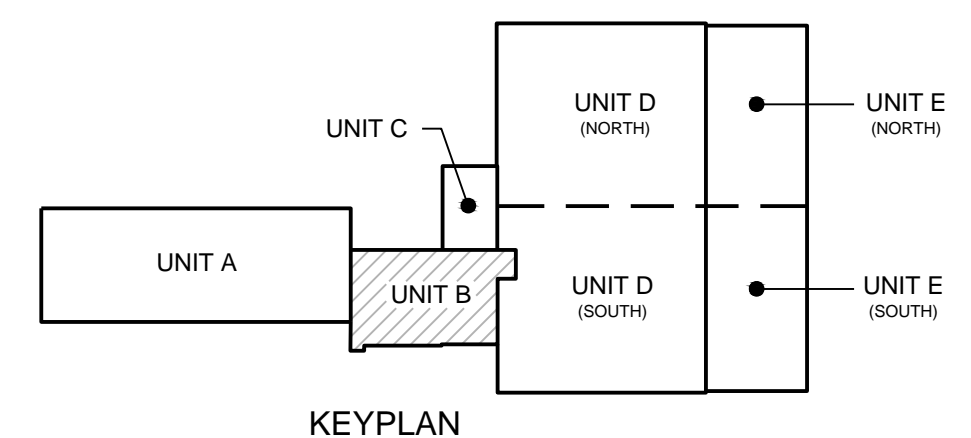
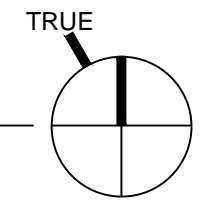
FIRE PROTECTION PLAN NOTES:

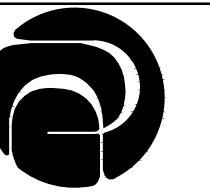
- ◇ EXTEND NEW SEMI-RECESSED SPRINKLER HEADS AND BRANCH PIPING TO NEW CEILING GRID LOCATIONS. UL APPROVED FLEXIBLE BRANCH PIPING IS ACCEPTABLE.

FIRE PROTECTION SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
+	CEILING SEMI-RECESSED SPRINKLER
o	UPRIGHT SPRINKLER



① UNIT B - FIRE PROTECTION PLAN
1/8" = 1'-0"





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BID SET 5-15-2019

UNIT B - UNDERGROUND PLUMBING DEMOLITION PLAN

PROJECT #: H1620
SHEET NUMBER

DP100

PLUMBING GENERAL NOTES:

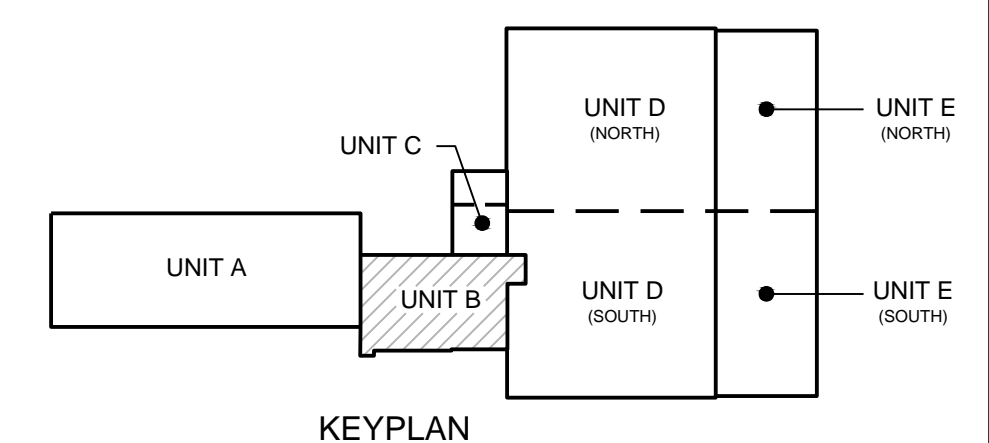
1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF DEMOLITION WORK REQUIRED. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. COORDINATE AND SCHEDULE ALL DEMOLITION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES.
5. COORDINATE FLOOR CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR. ALL FLOOR CUTTING BY THE GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.

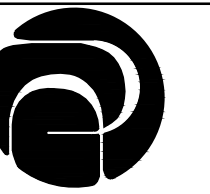
PLUMBING DEMOLITION PLAN NOTES:

- 1. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN, P-TRAP AND DRAIN LINE SECTION AS SHOWN. PROTECT LINE FOR CONTINUATION WITH NEW PLAN.
- 2. DISCONNECT AND REMOVE LAV, CAP WASTE IN WALL. SALVAGE LAV FOR REUSE WITH NEW PLAN.
- 3. DISCONNECT AND REMOVE UTILITY SINK. PROTECT ROUGH-IN WASTE LINE FOR REUSE WITH NEW PLAN.
- 4. DISCONNECT AND REMOVE EXISTING ELECTRIC WATER COOLER. PROTECT ROUGH-IN WASTE LINE FOR REUSE WITH NEW PLAN.



1 UNIT B - UNDERGROUND PLUMBING DEMOLITION PLAN
1/8" = 1'-0"





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ISSUANCES:

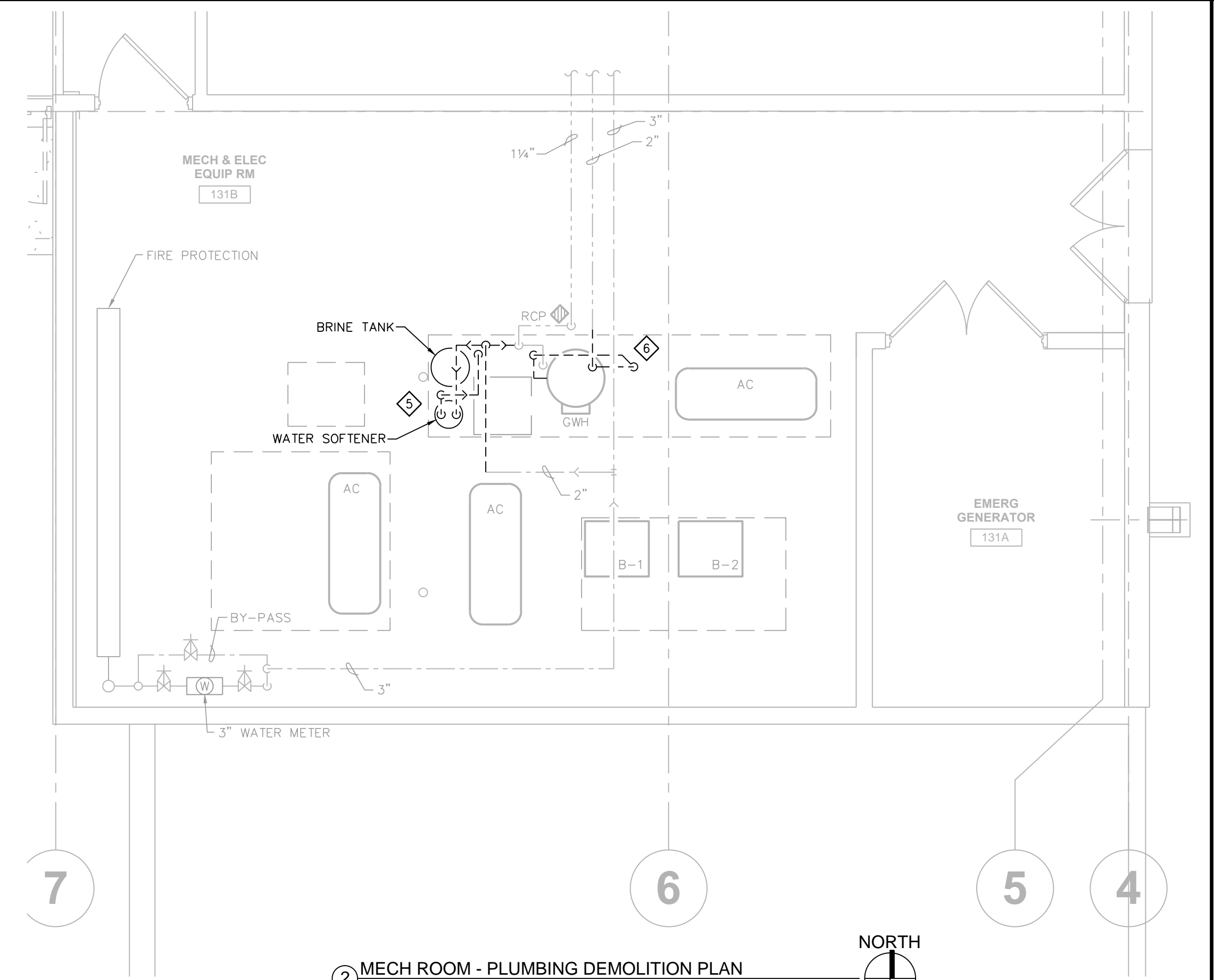
BID SET 5-15-2019

**UNIT B -
PLUMBING
DEMOLITION
PLAN**

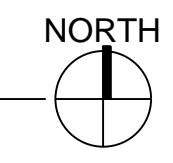
PROJECT #: H1620

SHEET NUMBER

DP101



2 MECH ROOM - PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

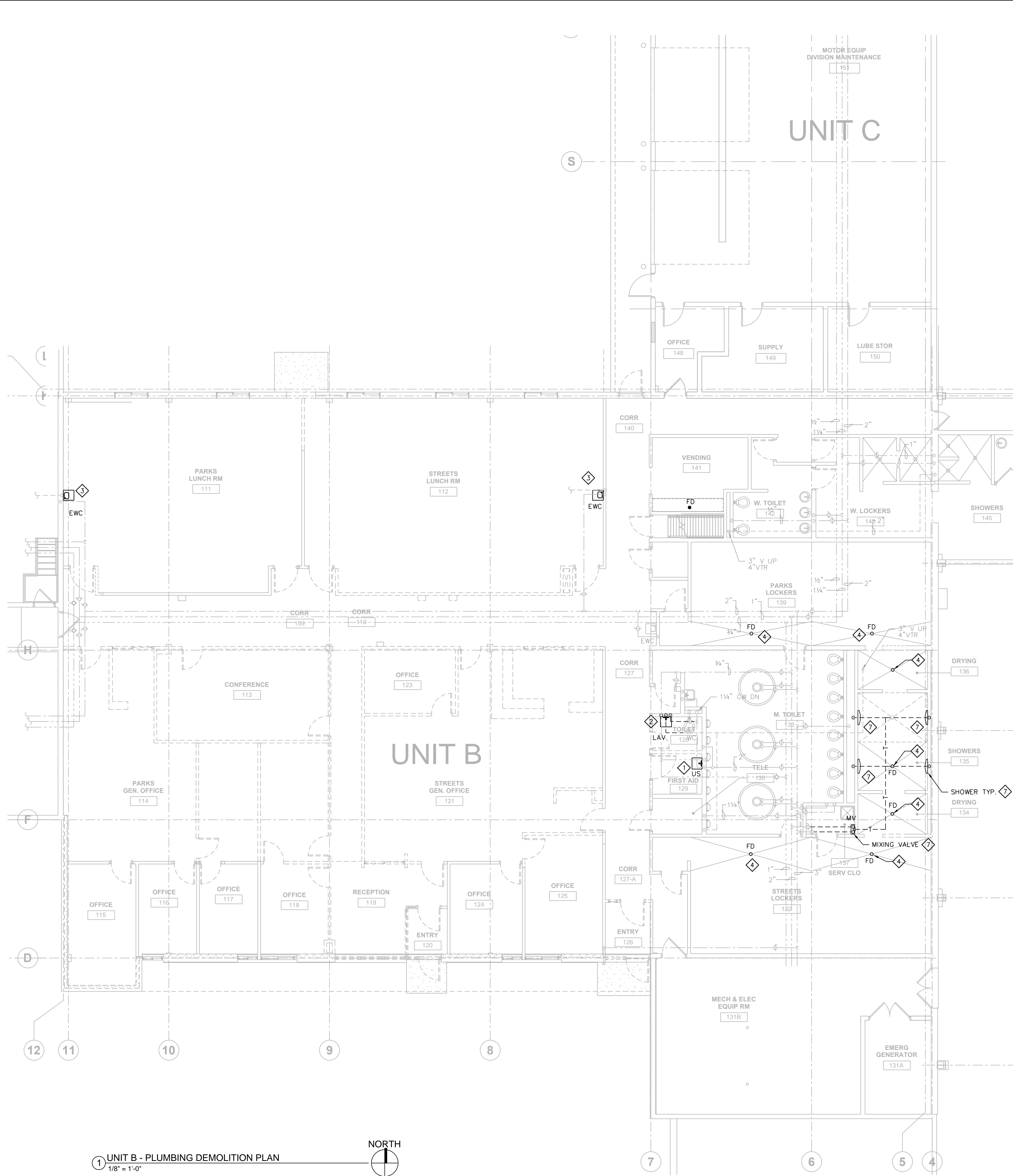


PLUMBING GENERAL NOTES:

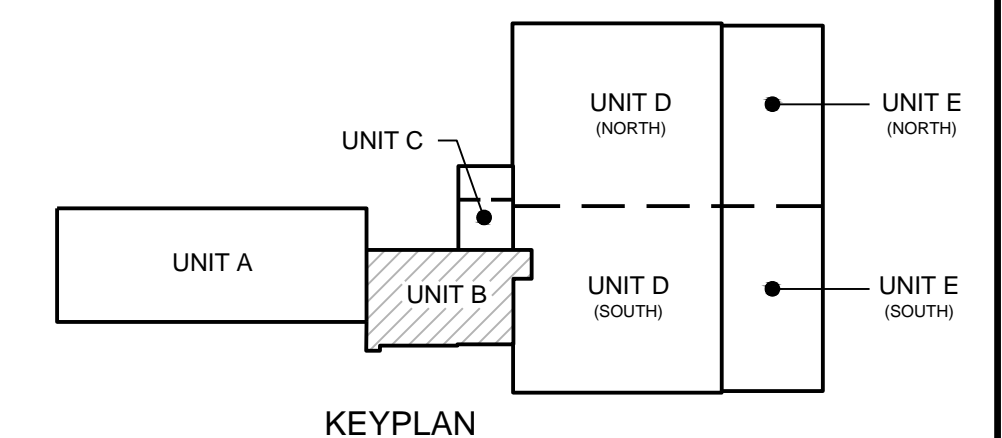
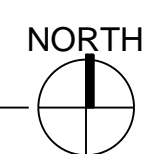
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2. COORDINATE AND SCHEDULE ALL DEMOLITION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES.
5. COORDINATE FLOOR CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR. ALL FLOOR CUTTING BY THE GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.

PLUMBING DEMOLITION PLAN NOTES:

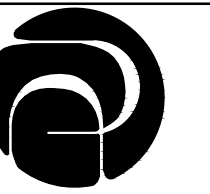
- ◇ DISCONNECT AND REMOVE EXISTING UTILITY SINK FIXTURE. PROTECT ROUGH-IN PIPING FOR REUSE WITH THE NEW PLAN.
- ◇ DISCONNECT AND REMOVE EXISTING LAVATORY FIXTURE. SALVAGE LAVATORY FOR REUSE WITH NEW PLAN. DISCONNECT AND REMOVE VENT AND WATER LINES BACK TO MAINS OR AS INDICATED. CAP WASTE IN WALL.
- ◇ DISCONNECT AND REMOVE EXISTING ELECTRIC WATER COOLER. PROTECT ROUGH-IN PIPING FOR REUSE WITH NEW PLAN.
- ◇ REMOVE EXISTING FLOOR DRAIN GRATE. INSTALL TRAP GUARD INSERT AND REINSTALL DRAIN GRATE, EQUAL TO PROSET SYSTEMS TG33G (3") OR TG34G (4").
- ◇ DISCONNECT AND REMOVE EXISTING WATER SOFTENER & BRINE TANK. 1-1/4" LINES BACK TO MAIN AND PROTECT FOR CONTINUATION WITH NEW PLAN.
- ◇ DISCONNECT HW LINE FROM EXISTING GAS-WATER HEATER AND CAP FOR CONTINUATION WITH NEW PLAN.
- ◇ DISCONNECT AND REMOVE THERMOSTATIC MIXING VALVE, SHOWER VALVES AND TEMPERED WATER SUPPLIES. CAP HOT AND COLD WATER SERVING MIXING VALVE AT MAINS. CAP SHOWER WATER LINES AT WALL.



1 UNIT B - PLUMBING DEMOLITION PLAN
1/8" = 1'-0"



KEYPLAN



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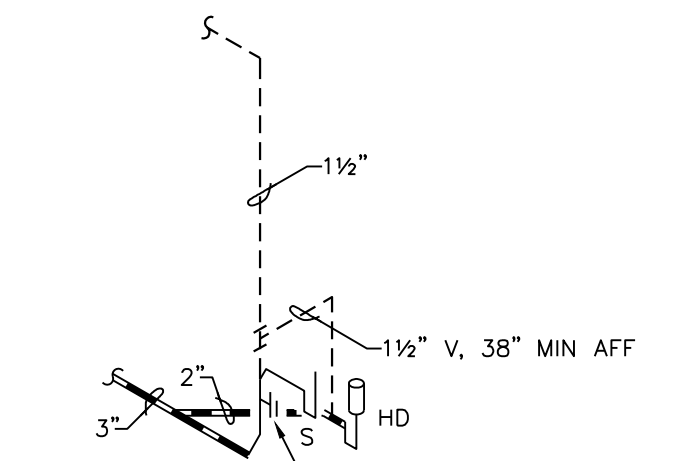
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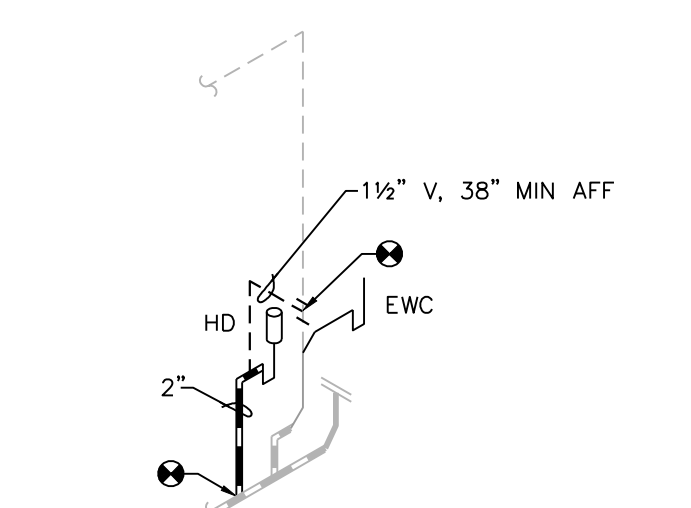
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2. COORDINATE AND SCHEDULE ALL PLUMBING WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL PLUMBING WORK WITH OTHER TRADES.
5. COORDINATE FLOOR CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR. ALL FLOOR CUTTING AND PATCHING BY THE GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.

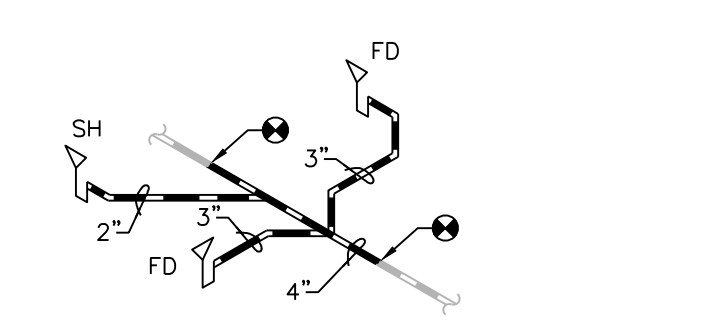
⊕ = CONNECT TO EXISTING



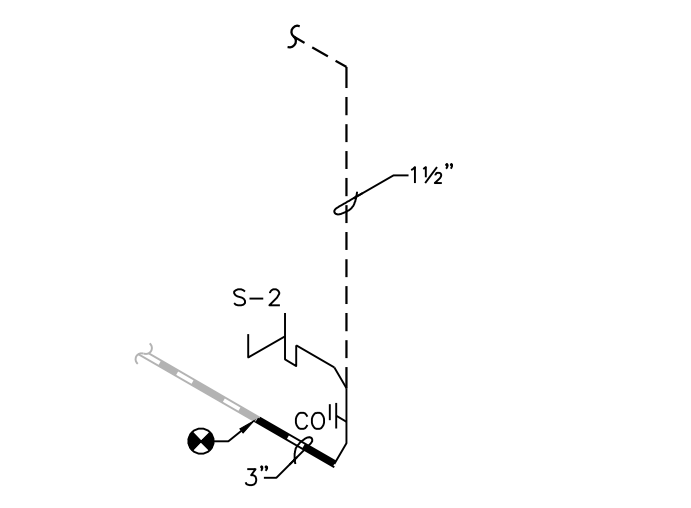
WASTE & VENT RISER - WRV#1
SCALE: NONE CORRIDOR 109



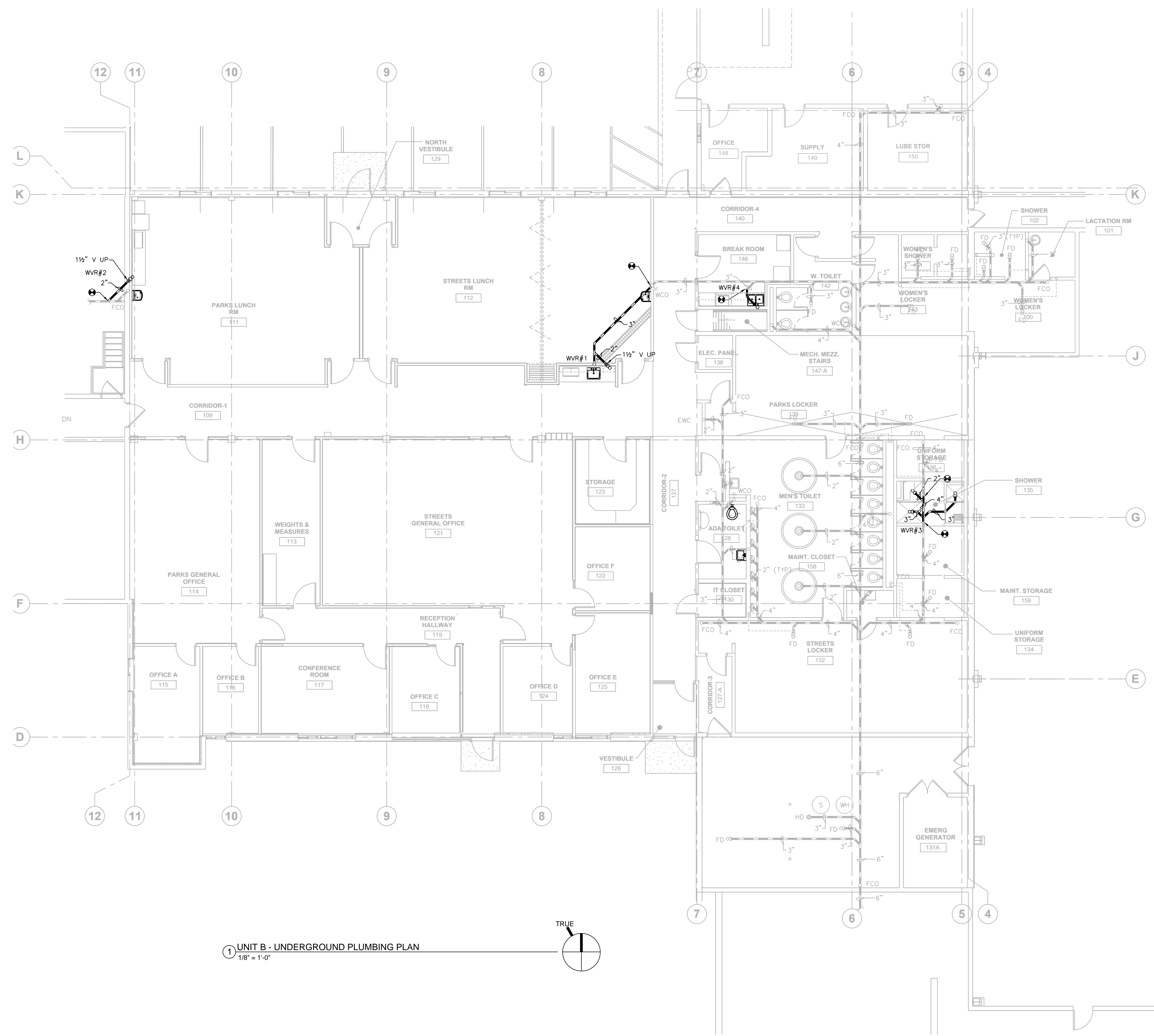
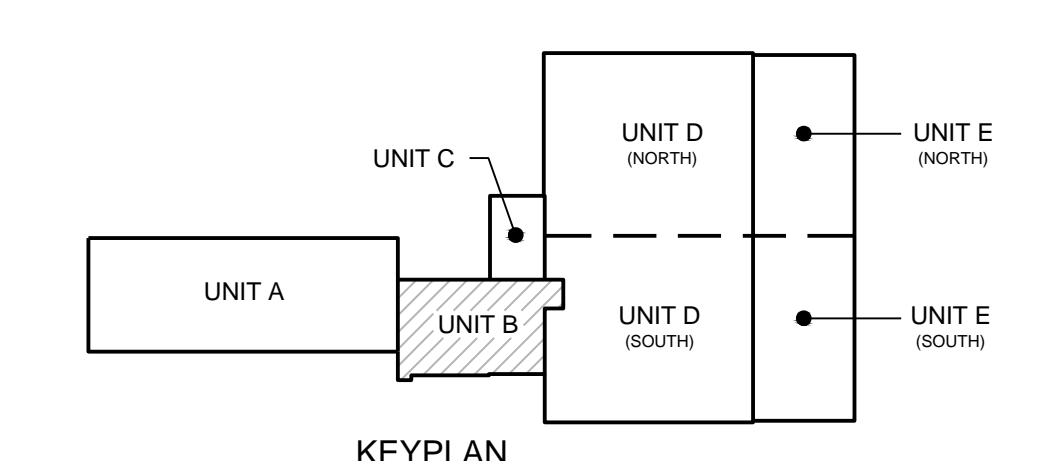
WASTE & VENT RISER - WRV#2
SCALE: NONE STREETS LUNCH ROOM 112



WASTE & VENT RISER - WRV#3
SCALE: NONE SHOWER 135



WASTE & VENT RISER - WRV#4
SCALE: NONE KITCHEN 146



UNIT B - UNDERGROUND PLUMBING PLAN
1/8" = 1'-0"

ISSUANCES:
BID SET 5-15-2019

UNIT B - UNDERGROUND PLUMBING PLAN

PROJECT #: H1620
SHEET NUMBER

P100

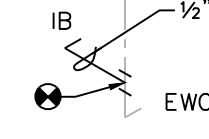
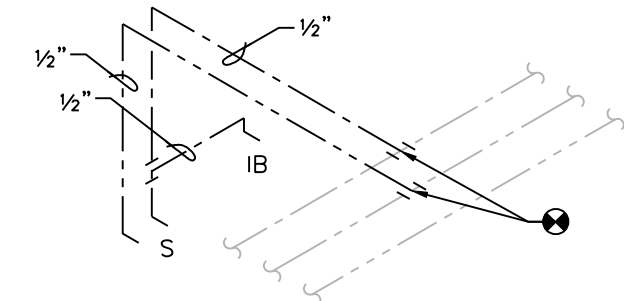
PLUMBING GENERAL NOTES:

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2. COORDINATE AND SCHEDULE ALL PLUMBING WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL PLUMBING WORK WITH OTHER TRADES.
5. COORDINATE FLOOR CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR. ALL FLOOR CUTTING AND PATCHING BY THE GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.

☉ = CONNECT TO EXISTING

PLUMBING PLAN NOTES:

1. REINSTALL EXISTING LAVATORY AT WALL WITH SUPPORT PLATE AND RECONNECT WASTE & WATER LINES CONCEALED IN WALL. INSTALLED PER ADA REQUIREMENTS.
2. INSTALL NEW ELECTRIC WATER COOLER AT MODIFIED WASTE & WATER LINE ROUGH-IN'S. INSTALL PER ADA HEIGHT.
3. SLEEVE & SEAL PIPE WALL PENETRATION FOR 2-HR FIRE RATING.
4. INSTALL NEW ELECTRIC WATER COOLER AT MODIFIED WASTE & WATER LINE ROUGH-IN'S. INSTALL PER ADA HEIGHT. EXTEND COLD WATER LINE TO ICE BOX SERVING NEW UNDERCOUNTER ICE MACHINE NEXT TO NEW WATER COOLER. EXTEND VENT TO NEW HUB DRAIN SERVING ICE MACHINE. CUT & PATCH FLOOR TO EXTEND WASTE LINE TO NEW HUB DRAIN. FIELD VERIFY LOCATION.

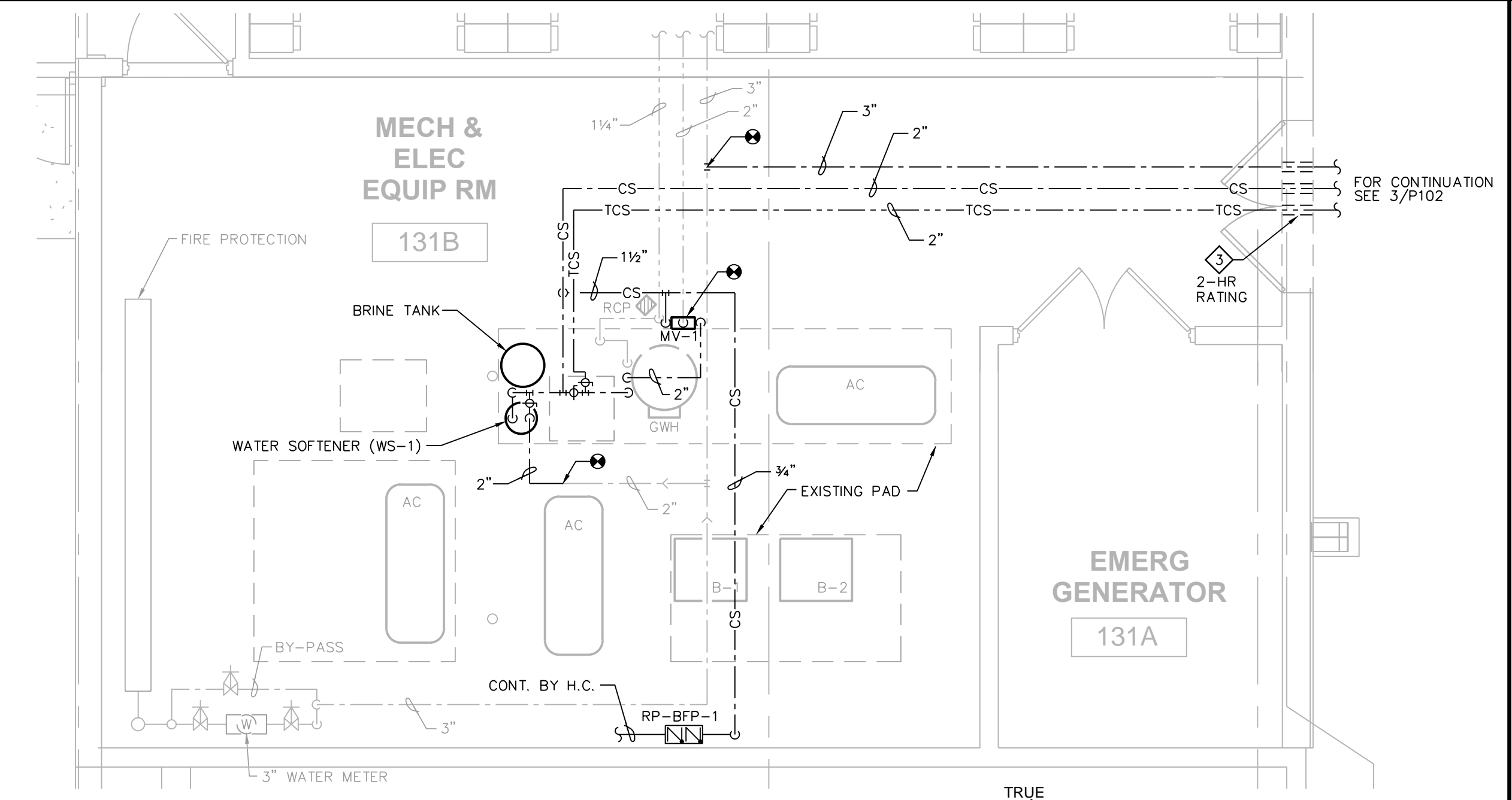


NEW SHOWER RISER - WR#3

SCALE: NONE CORRIDOR 109

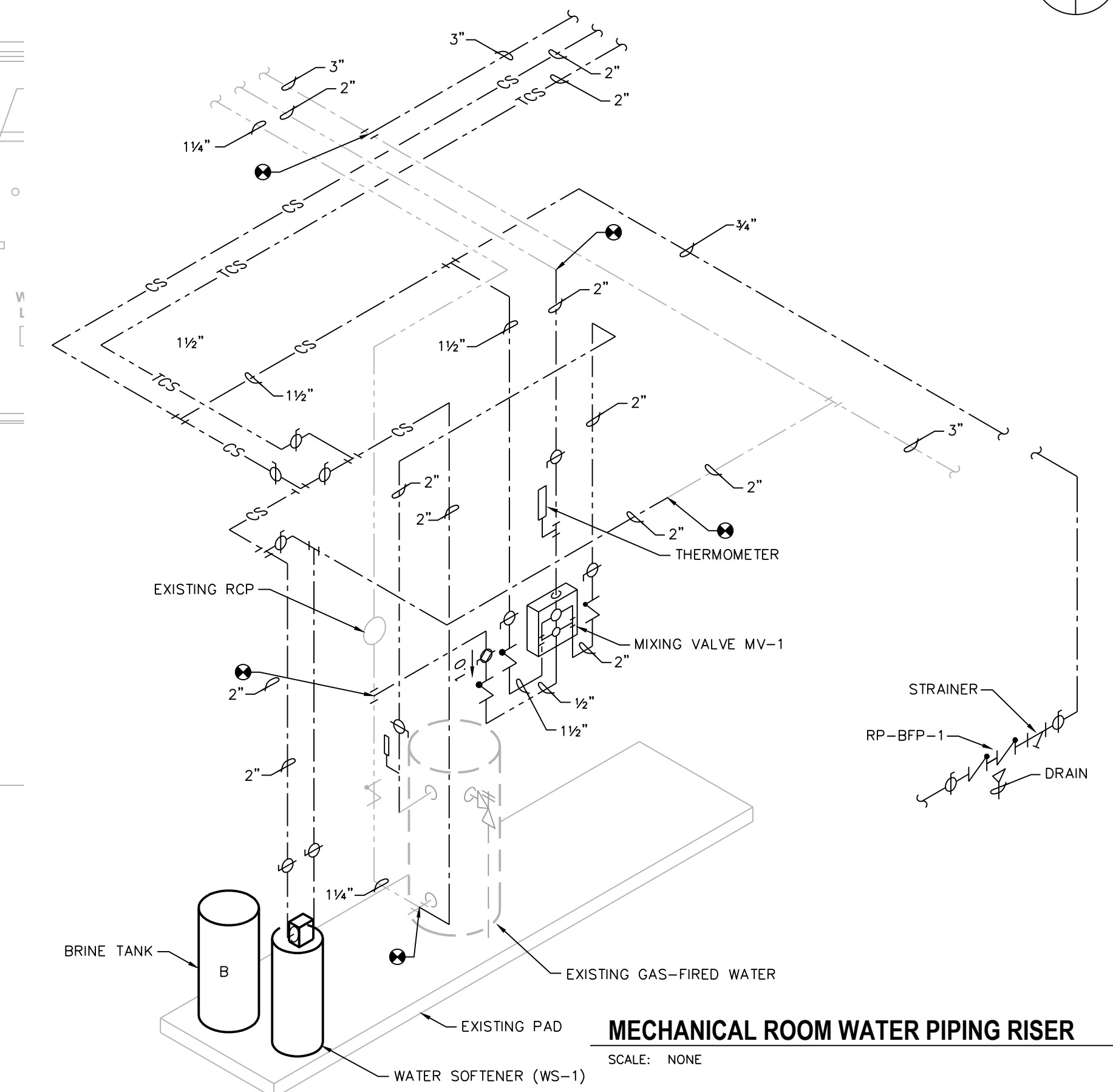
NEW SHOWER RISER - WR#4

SCALE: NONE PARKS LUNCH ROOM 111



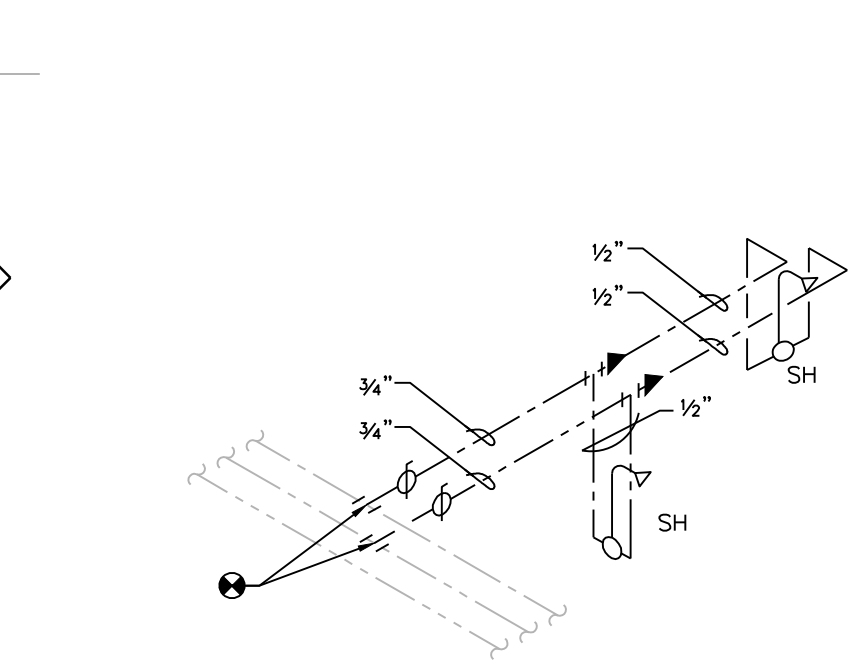
1 UNIT B - MECH & ELEC EQUIPMENT RM ENLARGED PLAN

1/8" = 1'-0" 131B



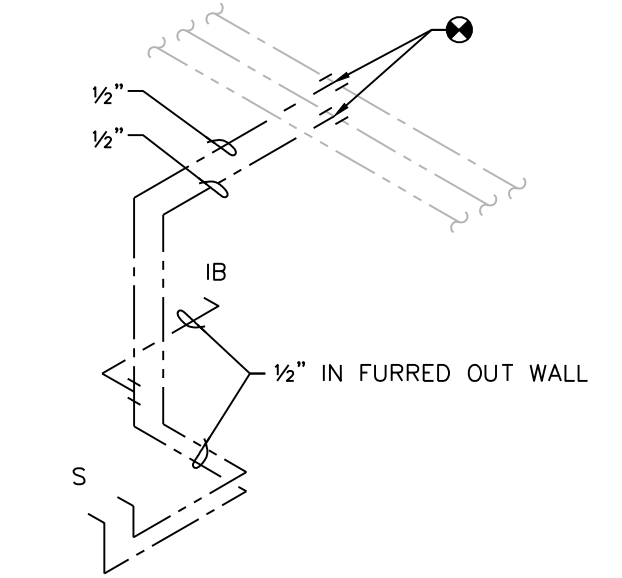
MECHANICAL ROOM WATER PIPING RISER

SCALE: NONE



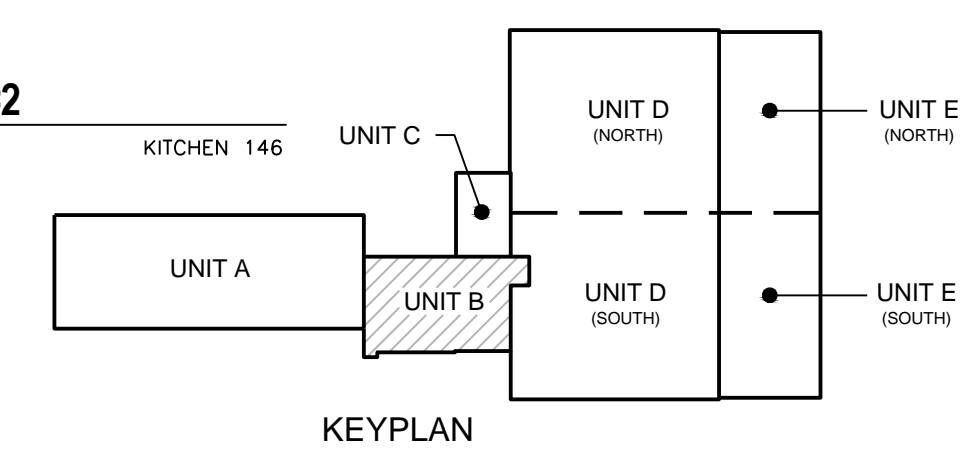
NEW SHOWER RISER - WR#1

SCALE: NONE SHOWER 135

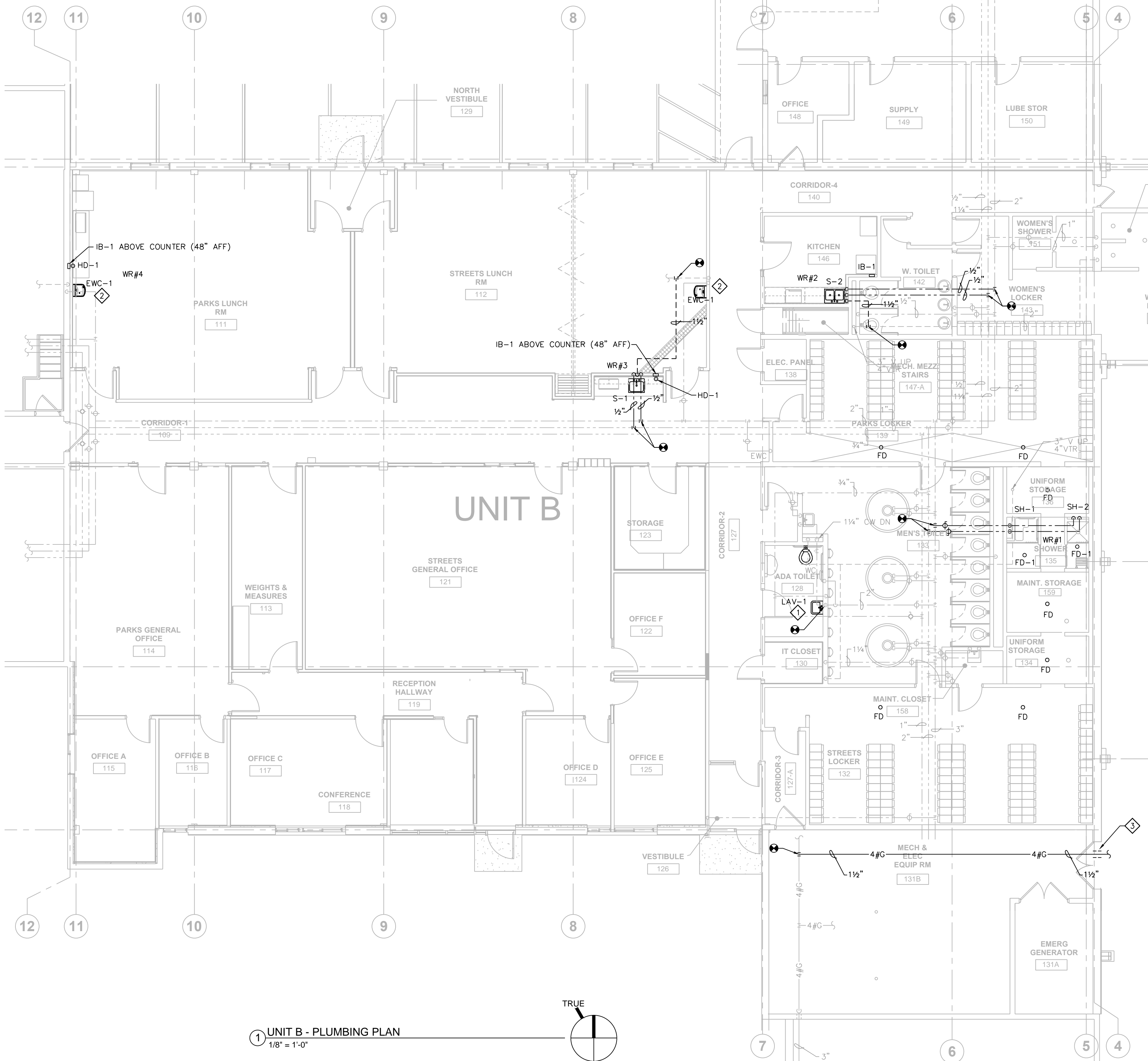


NEW KITCHEN RISER - WR#2

SCALE: NONE



KEYPLAN



1 UNIT B - PLUMBING PLAN

1/8" = 1'-0"

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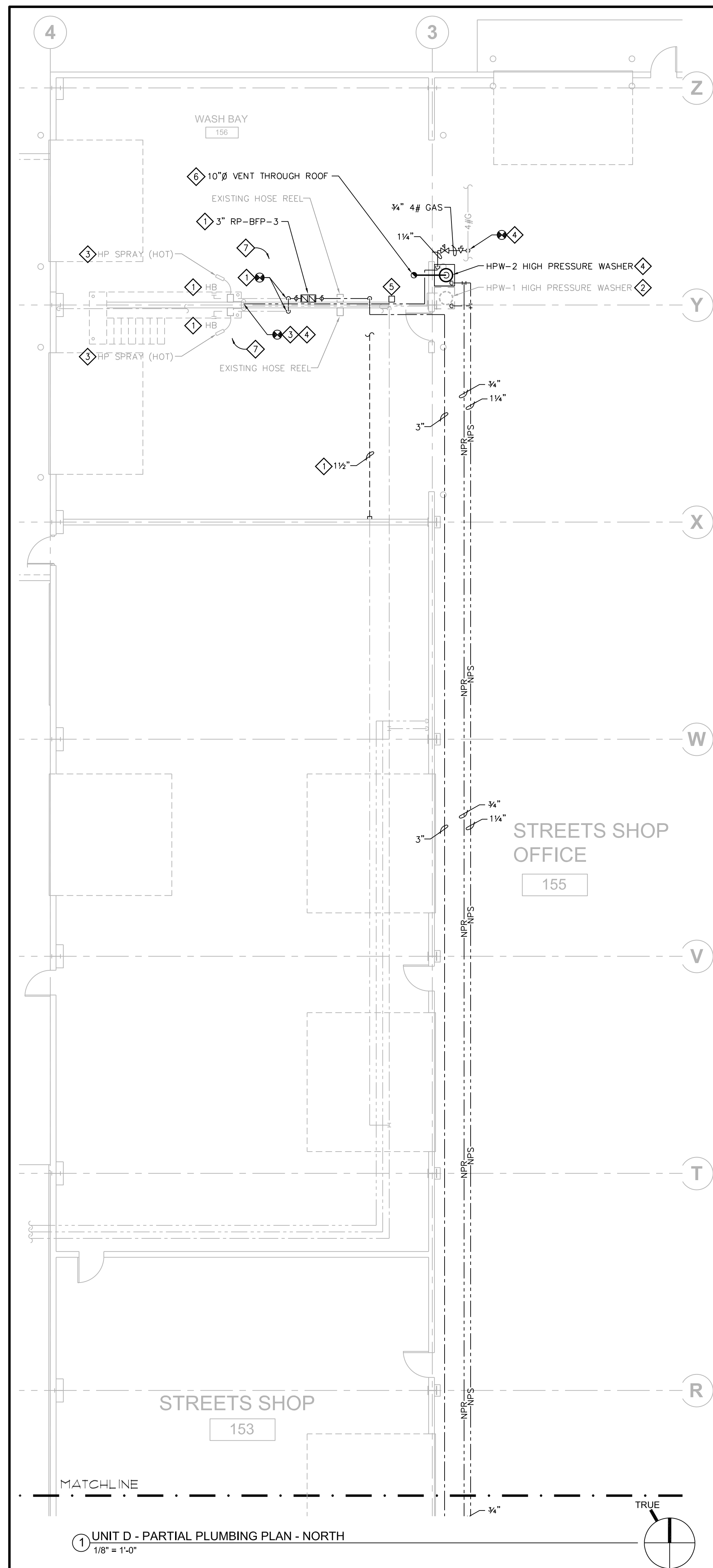
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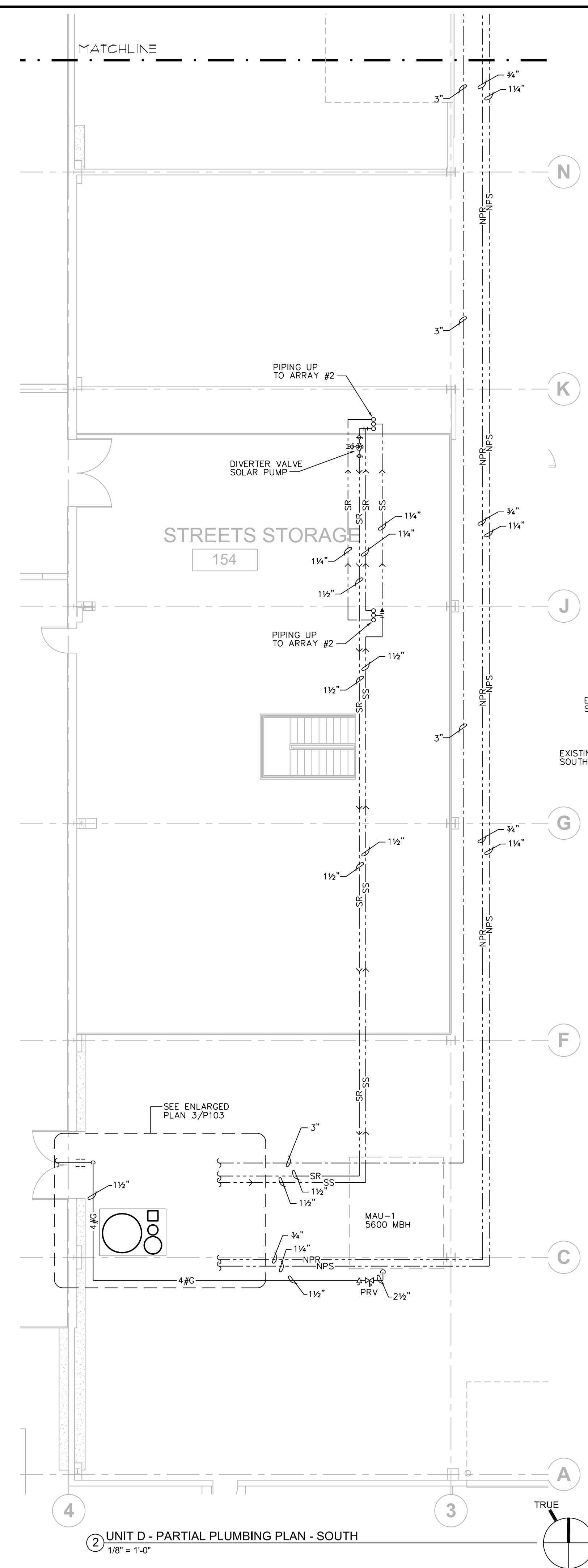
UNIT B - PLUMBING PLAN

PROJECT #: H1620
SHEET NUMBER

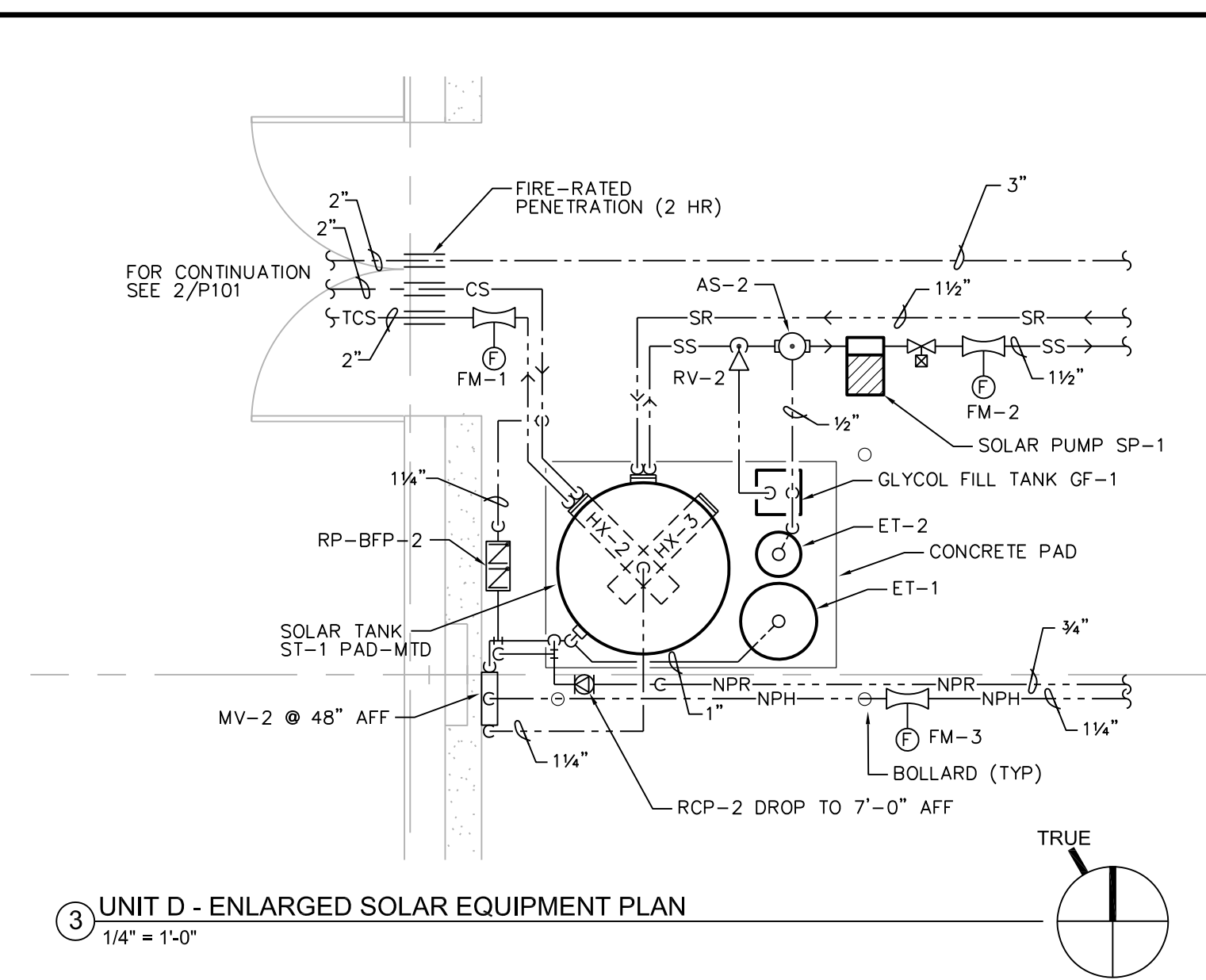
P101



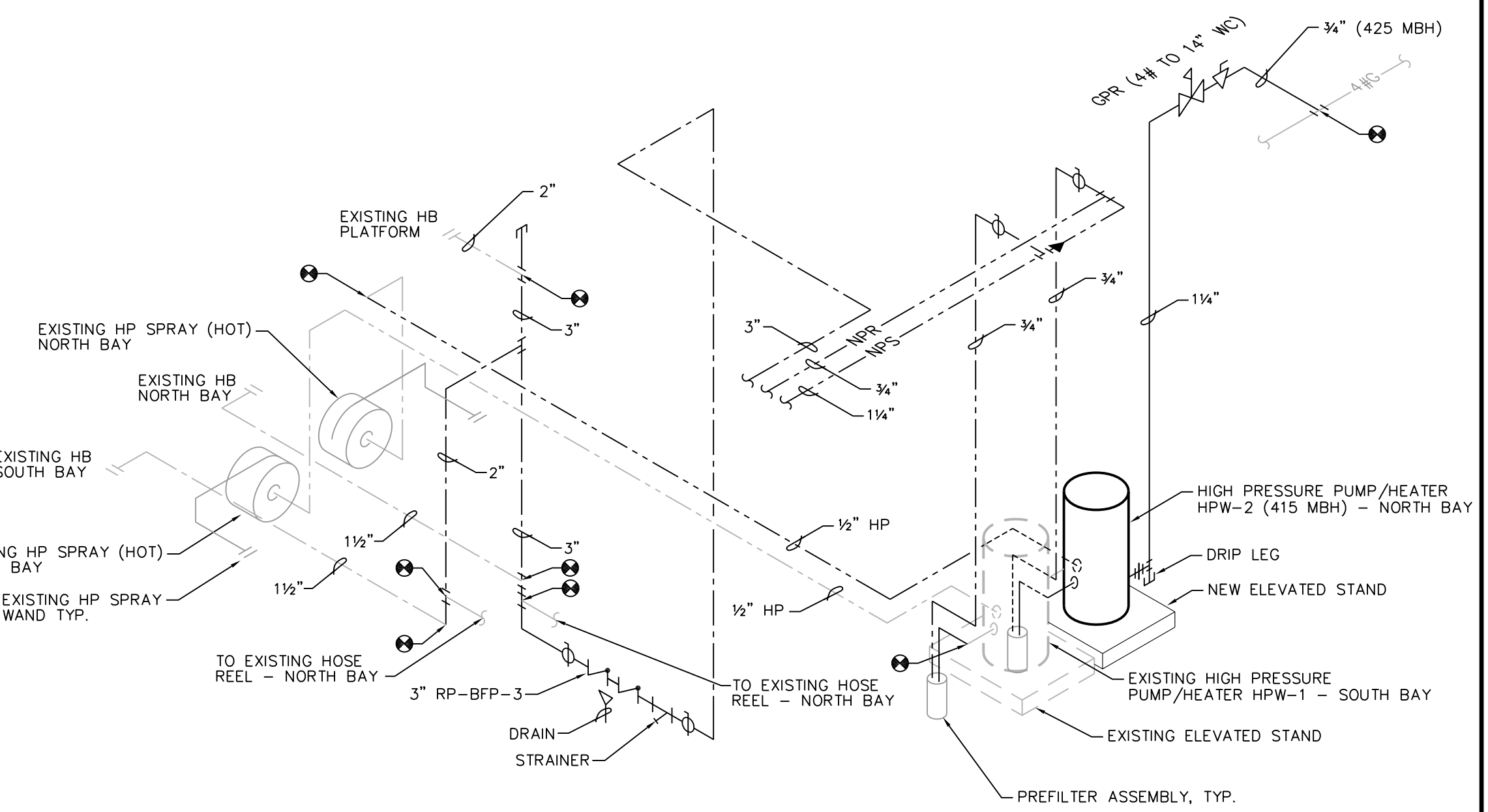
1 UNIT D - PARTIAL PLUMBING PLAN - NORTH
1/8" = 1'-0"



2 UNIT D - PARTIAL PLUMBING PLAN - SOUTH
1/8" = 1'-0"



3 UNIT D - ENLARGED SOLAR EQUIPMENT PLAN
1/4" = 1'-0"



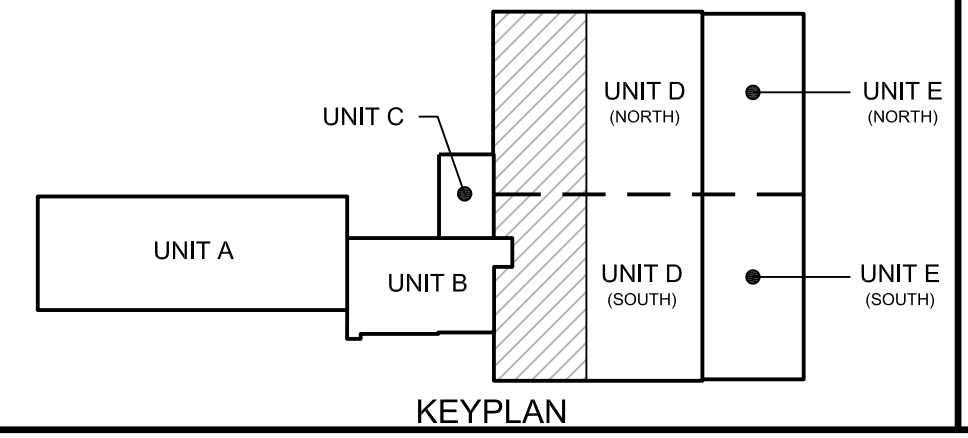
4 NORTH AND SOUTH WASH BAY WATER PIPING/ EQUIPMENT RISER
NTS

PLUMBING GENERAL NOTES:

1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF DEMOLITION WORK REQUIRED. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. COORDINATE AND SCHEDULE ALL DEMOLITION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING.
4. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES.
5. COORDINATE FLOOR CUTTING WITH GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.
7. ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.
8. ADD ALTERNATE #2: UNIT D & E GARAGE VENTILATION SYSTEM.

PLUMBING PLAN NOTES:

1. DISCONNECT EXISTING 1/2" CW LINE TO WASH BAY AND RP BACKFLOW PREVENTER. PROTECT CONNECTIONS FOR REUSE WITH NEW PLAN.
2. DISCONNECT AND REMOVE EXISTING MAKE-UP CW TO EXISTING HIGH PRESSURE PUMP/HEATER HPW-1. EXTEND NEW MAKE-UP LINE FROM NEW NON-POTABLE HOT WATER LINE AND RECONNECT AS SHOWN PREFILTER IN WASH BAY.
3. DISCONNECT EXISTING HIGH PRESSURE LINE FROM NORTH BAY HP SPRAY. PROTECT FOR REUSE WITH NEW PLAN. EXISTING HP LINE FROM EXISTING HEATER/PUMP HPW-1 TO REMAIN SERVING SOUTH BAY HIGH PRESSURE SPRAY.
4. INSTALL NEW HIGH PRESSURE PUMP/GAS-FIRED HEATER HPW-2 ADJACENT TO EXISTING ON A ELEVATED WALL STAND. ARRANGE FOR NEW GAS-LINE WITH REGULATOR TO HEATER. EXTEND HIGH PRESSURE DISCHARGE TO EXISTING SPRAY ON NORTH BAY. INSTALL PREFILTER IN WASH BAY.
5. INSTALL NEW OPERATOR CONTROL PANEL FOR HPW-2.
6. HPW VENDOR TO ARRANGE FOR VENTING NEW APPLIANCE THRU ROOF THIMBLE AND FLASHING. COORDINATE WORK WITH HVAC & GENERAL CONTRACTORS.
7. REFER TO ISOMETRIC PIPING PLAN 4/P103 FOR FURTHER DETAILS.



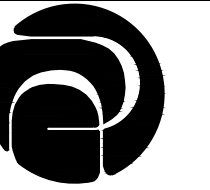
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UNIT D - PARTIAL PLUMBING PLANS

PROJECT #: H1620

SHEET NUMBER
P102



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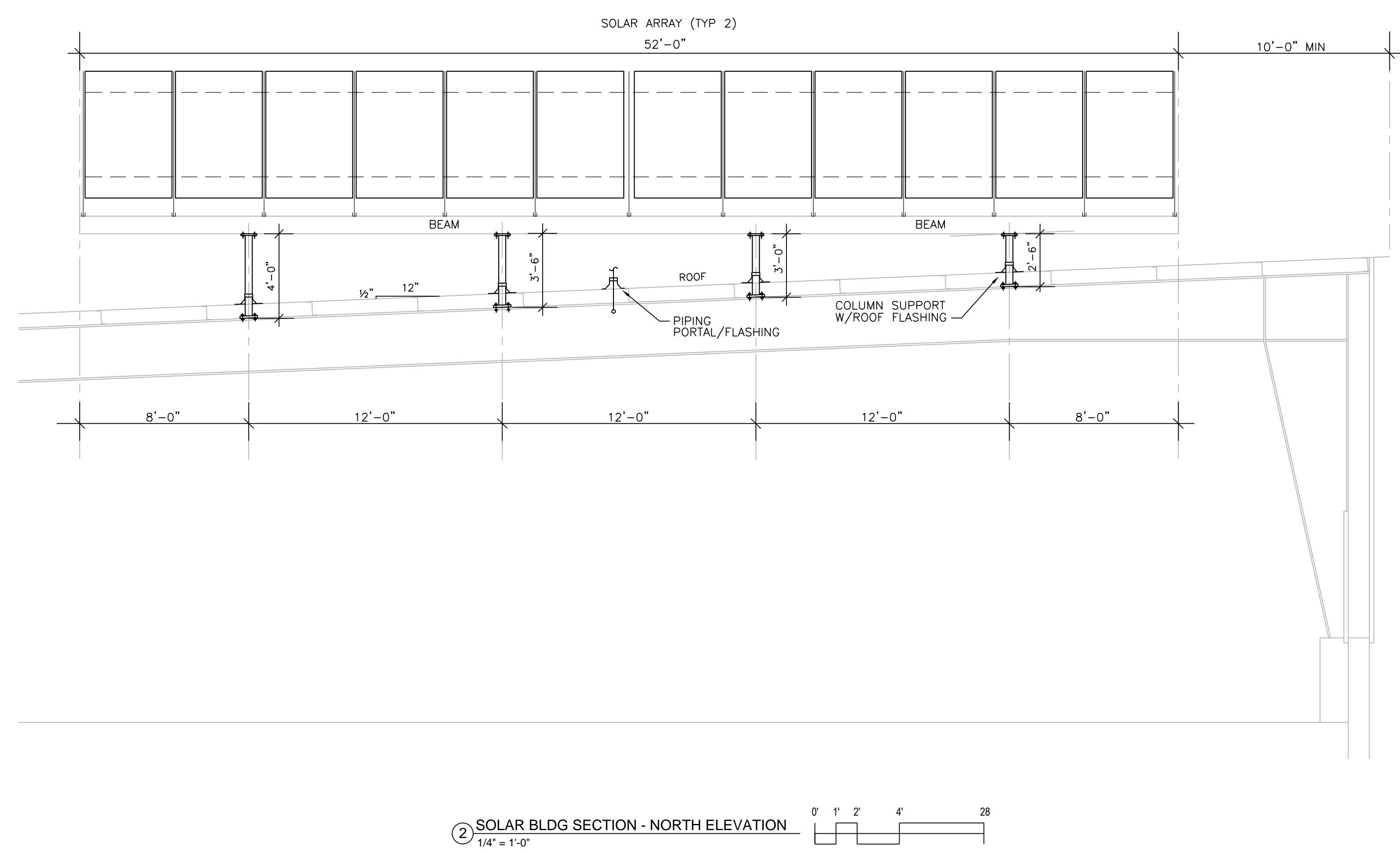
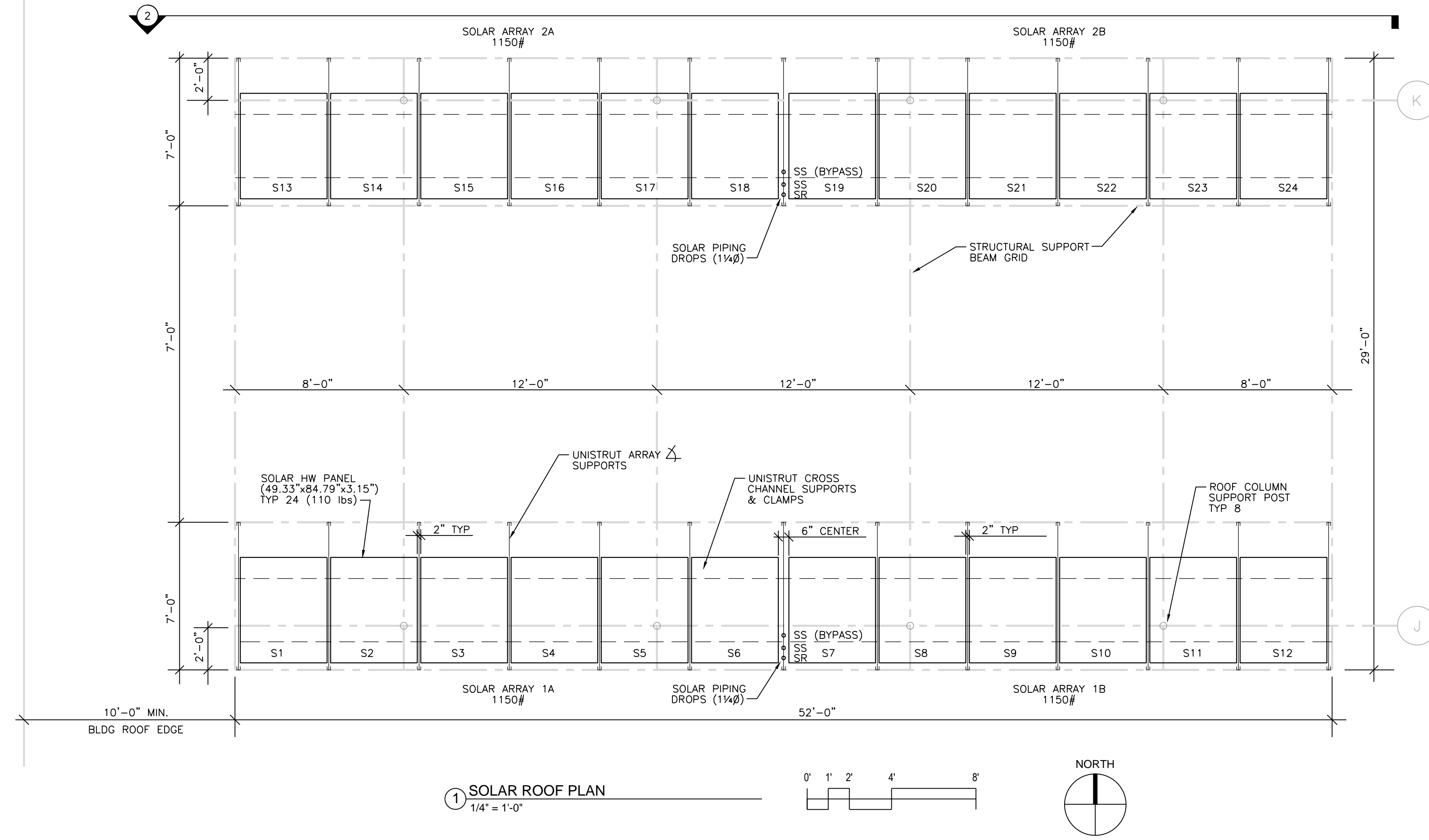
UNIT D -
SOLAR ROOF
PLAN &
SECTION

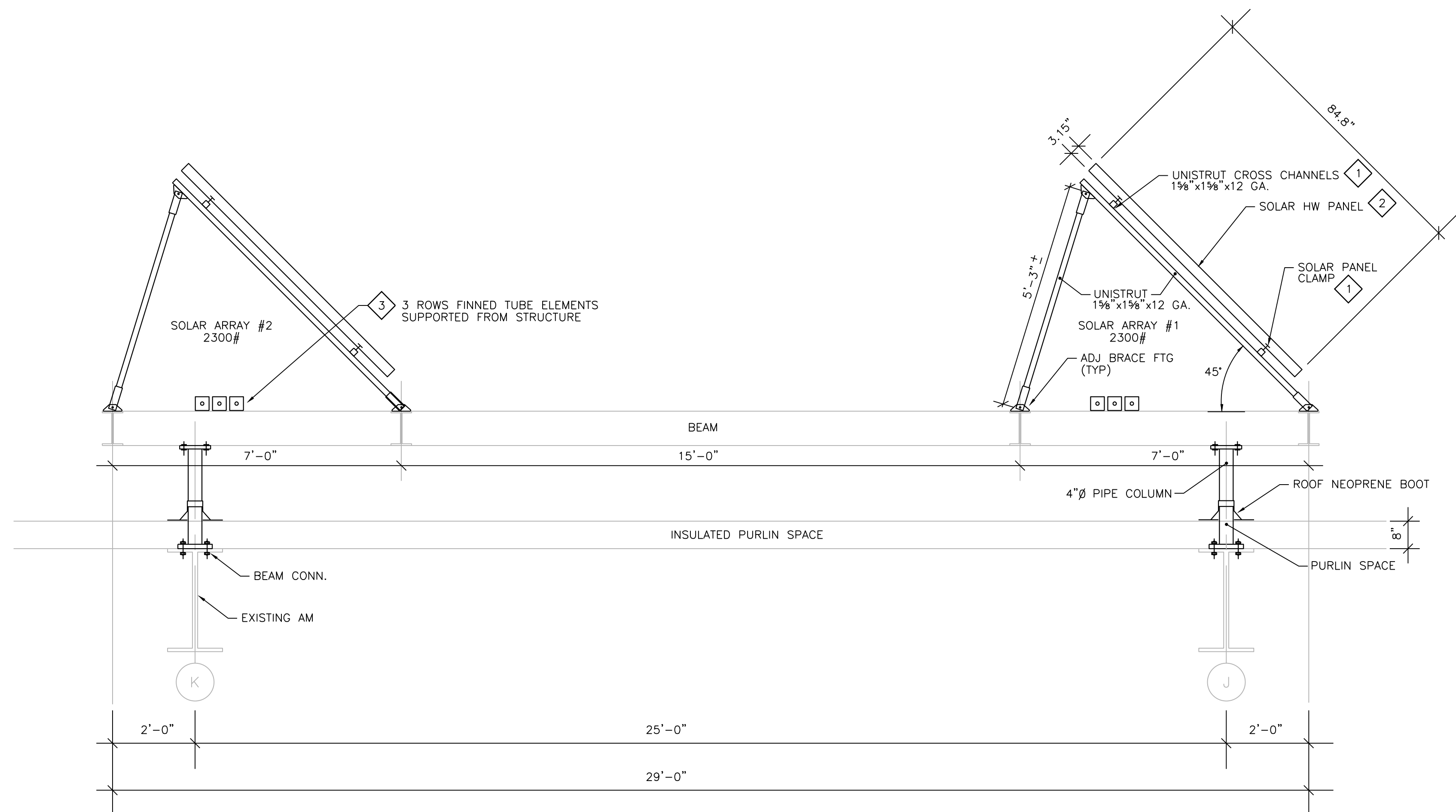
PROJECT #: H1620
SHEET NUMBER

P103

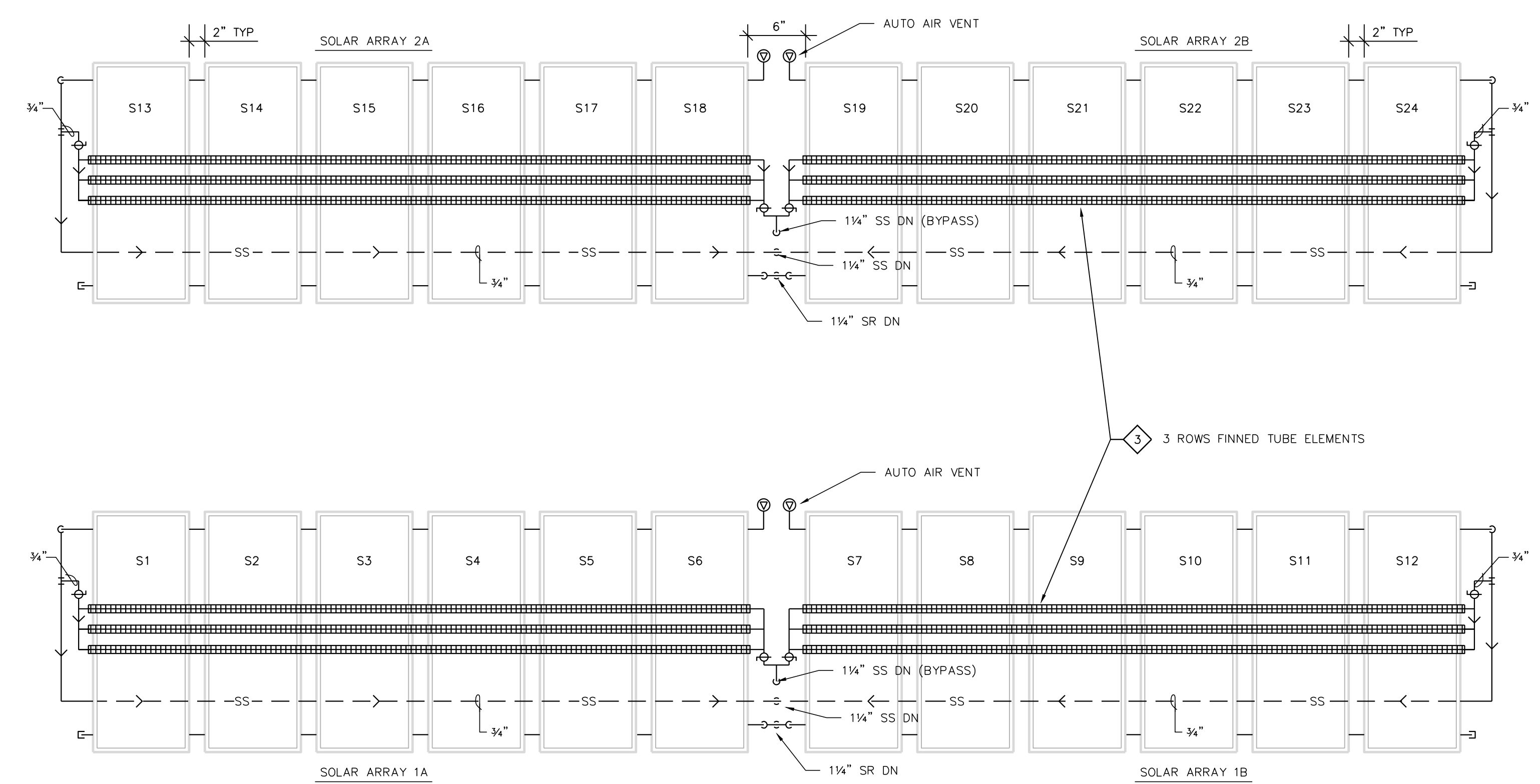
PLUMBING GENERAL NOTES:

1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF PLUMBING WORK REQUIRED. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. COORDINATE AND SCHEDULE ALL PLUMBING WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PLUMBING WORK TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
4. COORDINATE ALL PLUMBING WORK WITH OTHER TRADES.
5. COORDINATE ROOF CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.
7. ALL EXPOSED STRUCTURAL SUPPORTS & METAL FASTENERS TO BE HOT-DIPPED GALVANIZED TREATED ALUMINUM OR STAINLESS STEEL.
8. REFER TO STRUCTURAL S-SERIES DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.
9. ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.





① SOLAR SUPPORT RACK SECTION
1/2" = 1'-0"



② SOLAR ARRAY PIPING SCHEMATIC
N.T.S.

PLUMBING GENERAL NOTES:

1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF PLUMBING WORK REQUIRED. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
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5. COORDINATE ROOF CUTTING REQUIREMENTS WITH GENERAL CONTRACTOR.
6. REFER TO PLUMBING SPECIFICATIONS FOR FURTHER DETAILS & REQUIREMENTS.
7. ALL EXPOSED STRUCTURAL SUPPORTS & METAL FASTENERS TO BE HOT-DIPPED GALVANIZED TREATED ALUMINUM OR STAINLESS STEEL.
8. REFER TO STRUCTURAL S-SERIES DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.
9. ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.

PLUMBING PLAN NOTES:

- ① CONTRACTOR'S OPTION TO USE SCHUCCO CROSS SUPPORTS, CLAMPS AND FITTINGS FURNISHED BY OWNER.
- ② SOLAR HOT WATER PANEL FURNISHED BY OWNER (TYPICAL).
- ③ BARE COPPER TUBE/ALUMINUM FINNED-TUBE 1"x4-1/4"x4-1/4"x40 PPF WITH SUPPORTS.

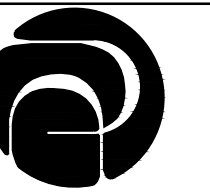
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UNIT D-SOLAR RACK ELEVATION & PIPING PLAN

PROJECT #:	H1620
SHEET NUMBER	

P104



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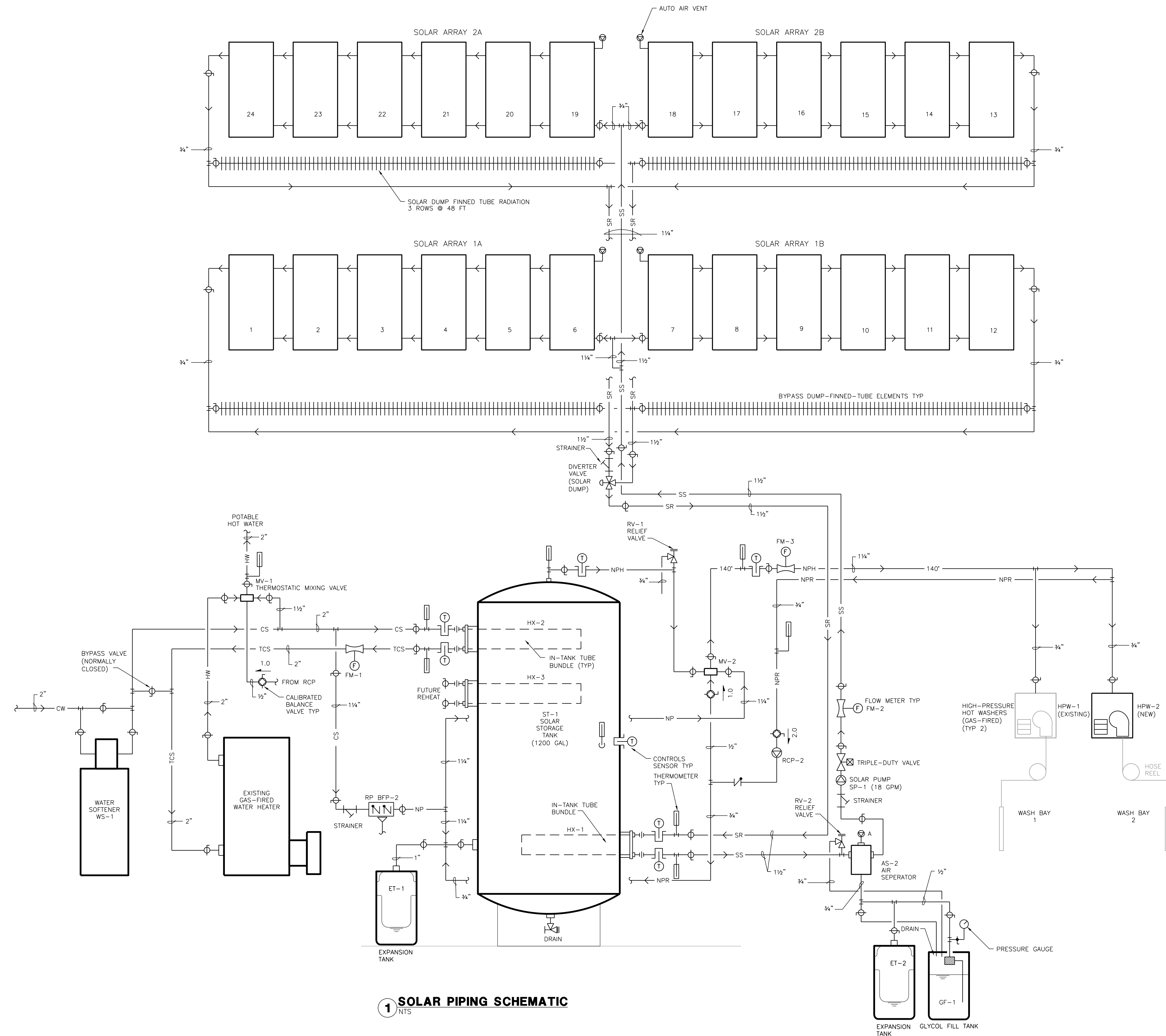
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SOLAR PIPING SCHEMATIC

PROJECT #: H1620

SHEET NUMBER

P200



1 SOLAR PIPING SCHEMATIC
NTS

NOTE: ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.

HOT WATER SOLAR COLLECTOR PANEL SCHEDULE										
TAG	MANUFACTURER	MODEL NO.	GROSS SF	ABSORBER PLATE SF	DIMENSIONS LxWxD	FRAME	PIPING CONNECTIONS	WT DRY	WT WET	REMARKS
SC-1	SCHUCHO USA	CTE 220 CH-2	28.95	26.91	84.8"x49.3"x3.2"	EXT. ALUM. 6063-T6	18 mm ø (0.709") COPPER	104#	109# (0.8) GAL	① ② WP=125 PSIG NOM. 4'x7' COLLECTOR

① OWNER FURNISHED; CONTRACTOR INSTALLED.
② SRCC STANDARD OG-100 CERTIFIED.

HEAT EXCHANGER WATER-TO-WATER SCHEDULE

GENERAL:			
TAG	HX-1	HX-2	HX-3
MANUFACTURER	B&G	B&G	B&G
MODEL NO.	OTCW-848	OTCW-842-4	OTCW-842-4
TYPE	IN-TANK U-TUBE SINGLE WALL	IN-TANK U-TUBE SINGLE WALL	IN-TANK U-TUBE SINGLE WALL
SURFACE AREA (SF)	32	27	27
NUMBER PASSES	4	4	4
LMTD	51	50	50
SERVICE	SOLAR SYSTEM	POTABLE WATER	HW REHEAT (FUTURE)
CAPACITY(MBH)	175	175	150
TUBE SIDE FLUID	50% PROPYLENE GLYCOL	POTABLE WATER	TREATED WATER
EWT(DEG F)	160	55	80
LAT(DEG F)	140	90	100
GPM	18	10	15
WPD(FEET)	0.6	0.2	0.6
PIPING CONNECTIONS	2"ø	2"ø	2"ø
TANK SIDE FLUID	NON-POTABLE	TREATED WATER	TREATED WATER
TANK TEMP (DEG F)	130	130	130
RECIRCULATED	NO	NO	NO
TANK COLLAR	FLANGED 8"øx8"L	FLANGED 8"øx8"L	FLANGED 8"øx8"L
TUBE LENGTH	46 1/4"	40 1/4"	40 1/4"
REMARKS:	② GLYCOL SOLUTION	① POTABLE WATER	NON-POTABLE

FOULING FACTOR: 0.000250 DESIGN PRESSURE/TEMP = 150PSIG/375 F
① 90/10 CUPRO-NICKEL TUBES
② 316 SS TUBES

WATER SERVICE SIZING (POTABLE):

- 1) 188 DEMAND OF BUILDING IN G.P.M.
- 2) 6.8 PSI LOW PRESSURE AT MAIN IN STREET
- 3) 4 FT DIFFERENCE IN ELEVATION, MAIN TO METER.
- 4) 3 IN SIZE OF WATER METER.
- 5) 80 FT DEVELOPED LENGTH FROM MAIN TO METER.

AVAILABLE PRESSURE AFTER THE WATER METER:

- 1) 0.0 PSI PRESSURE LOSS DUE TO FRICTION LOSS IN 8" WATER SERVICE.
- 2) 1.7 PSI PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER.
- 3) 8 PSI PRESSURE LOSS DUE TO METER.
- 4) 58.3 PSI AVAILABLE PRESSURE AFTER THE WATER METER.

HOT WATER DISTRIBUTION SIZING:

PERMISSIBLE UNIFORM PRESSURE LOSS FOR FRICTION (A): (P.S.I./100' OF PIPE)

$$\text{WHERE: } A = \frac{B - (C + D + E)}{F} \times 100$$

A. 6.5 PERMISSIBLE PRESSURE LOSS FOR FRICTION. (PSI/100' OF PIPE).

B. 58.3 PSI AVAILABLE PRESSURE AFTER WATER METER

C. 8 PSI PRESSURE NEEDED AT CONTROLLING FIXTURE.

D. 1.3 PSI DIFFERENCE IN ELEVATION BETWEEN WATER METER AND CONTROLLING FIXTURE IN FEET 3 FT x .434 PSI/FT.

E. 10 PSI PRESSURE LOSS DUE TO WATER HEATER, WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS.

F. 600 FT DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 400 x 1.5.

COLD WATER DISTRIBUTION SIZING:

PERMISSIBLE UNIFORM PRESSURE LOSS FOR FRICTION (A): (P.S.I./100' OF PIPE)

$$\text{WHERE: } A = \frac{B - (C + D + E)}{F} \times 100$$

A. 8.2 PERMISSIBLE PRESSURE LOSS FOR FRICTION. (PSI/100' OF PIPE).

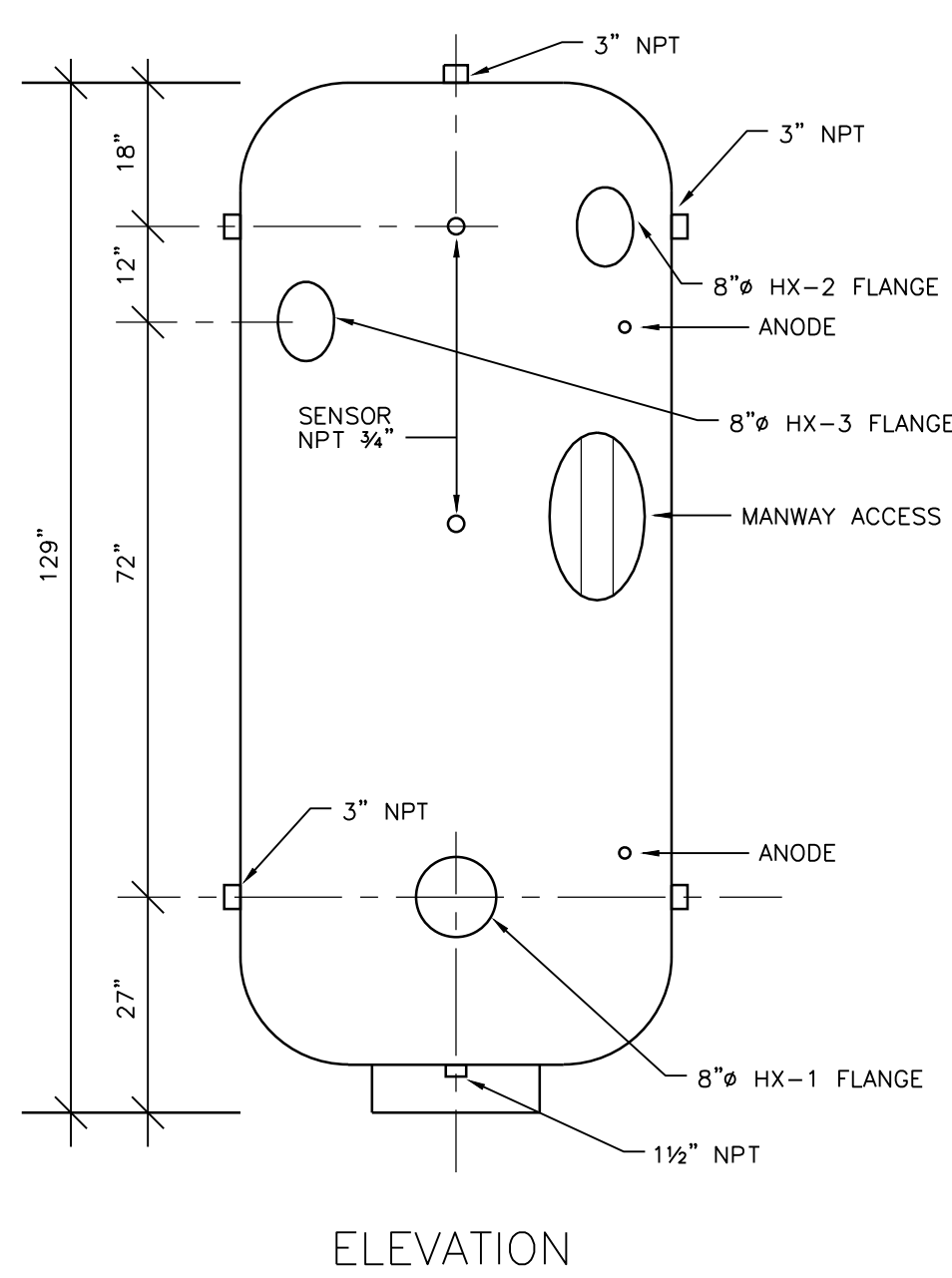
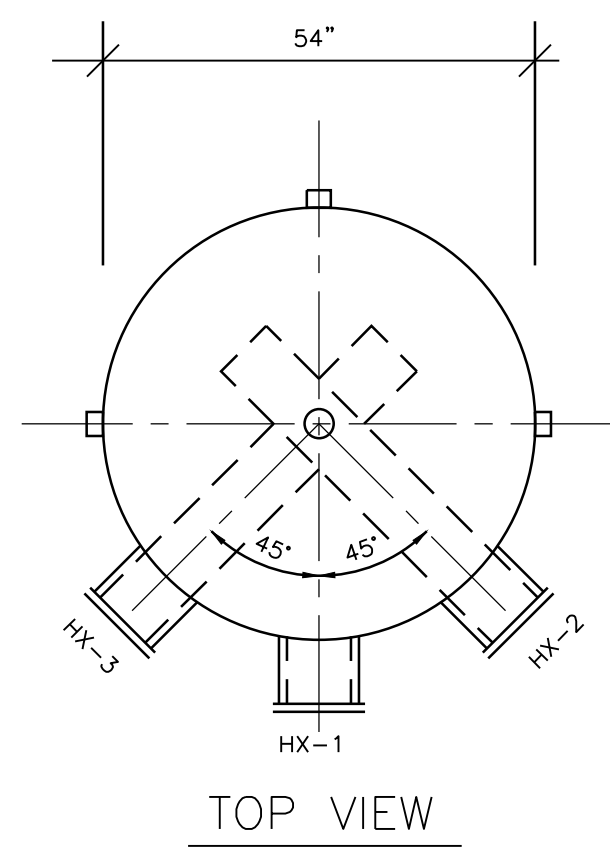
B. 58.3 PSI AVAILABLE PRESSURE AFTER WATER METER

C. 8 PSI PRESSURE NEEDED AT CONTROLLING FIXTURE.

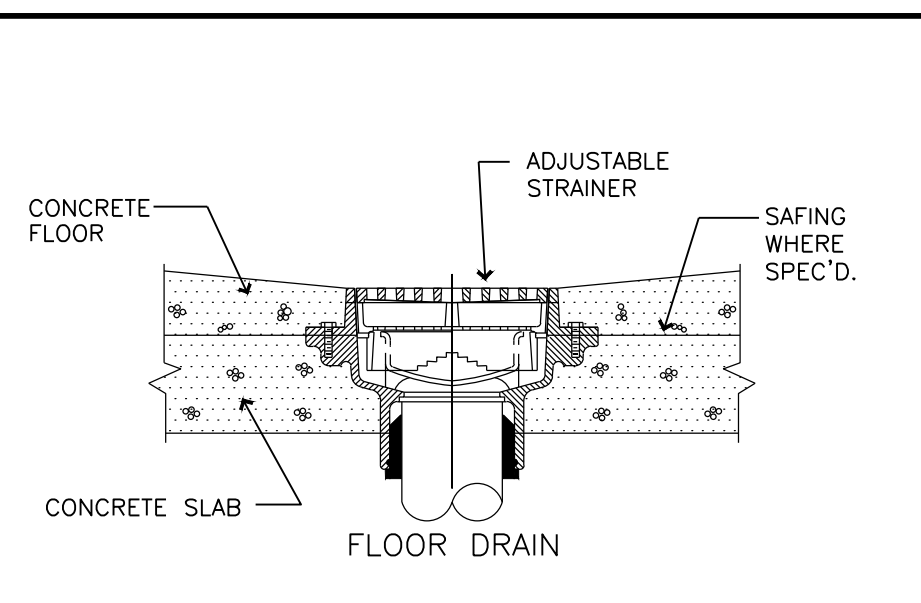
D. 1.3 PSI DIFFERENCE IN ELEVATION BETWEEN WATER METER AND CONTROLLING FIXTURE IN FEET 3 FT x .434 PSI/FT.

E. 0 PSI PRESSURE LOSS DUE TO WATER HEATER, WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS.

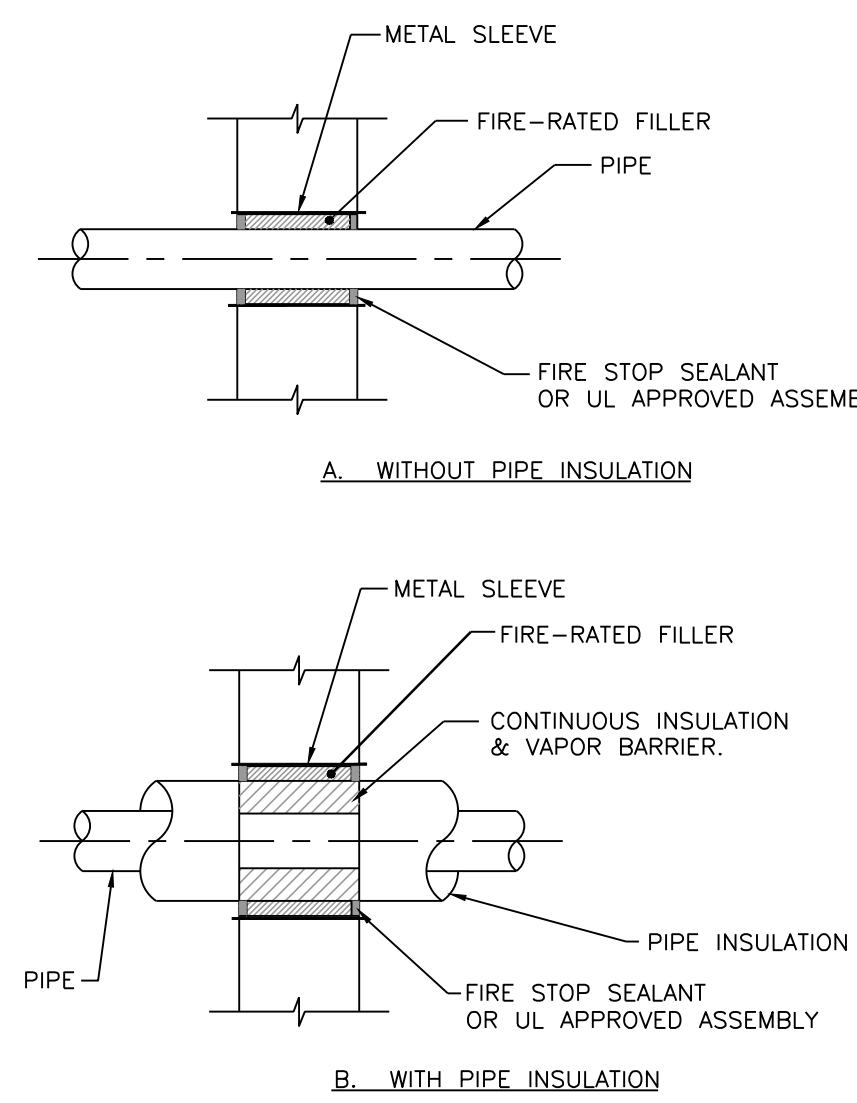
F. 600 FT DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 400 x 1.5.



④ SOLAR TANK ST-1 DETAILS
1/2" = 1'-0"

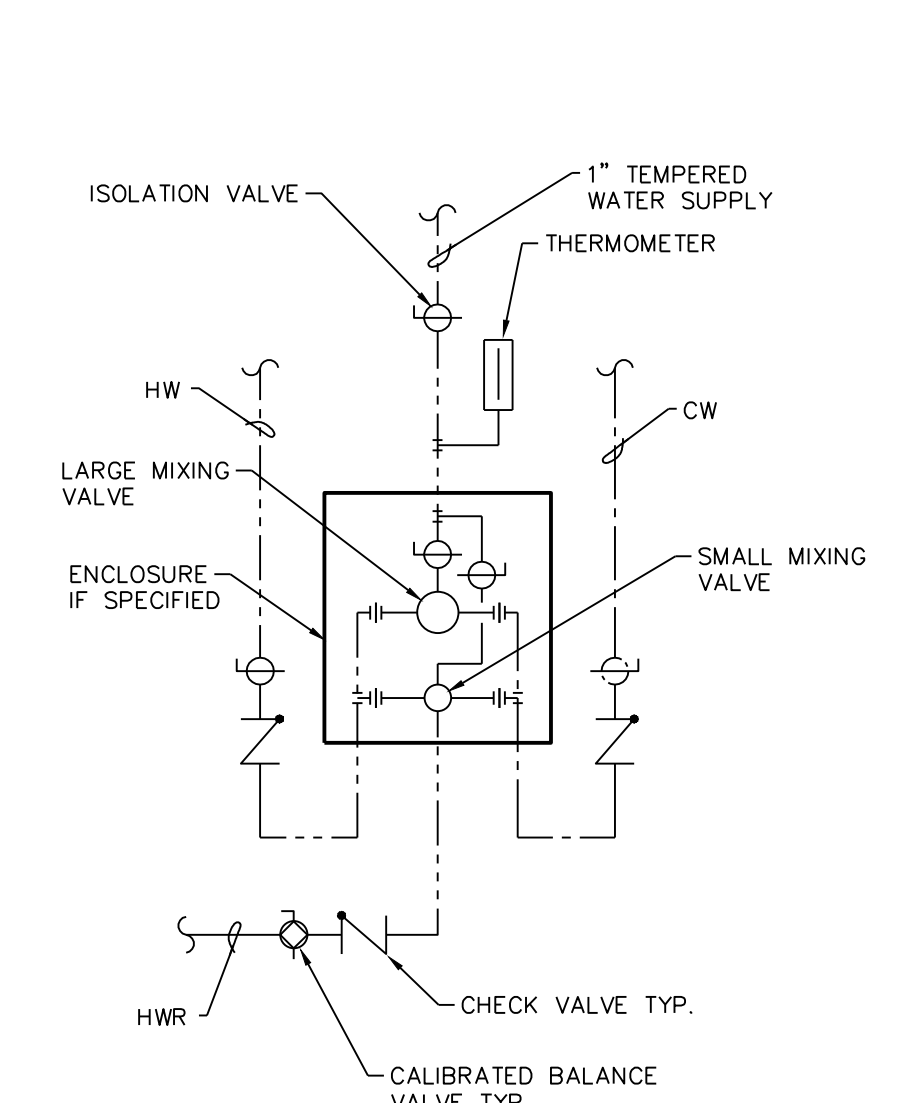


① FLOOR DRAIN DETAIL
N.T.S.



③ PIPING THRU FIRE-RATED WALLS
NOTE: ALL FIRE-STOP MATERIALS & ASSEMBLIES SHALL MEET U.L. APPROVED ASSEMBLIES.

③ PIPING THRU FIRE-RATED WALLS
N.T.S.



② MIXING VALVE ASSEMBLY DETAIL
N.T.S.

PLUMBING FIXTURE SCHEDULE

P#	FIXTURE	WASTE	VENT	CW.	HW.	DESCRIPTION
S-1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SELF-RIMMING STAINLESS-STEEL SINGLE-COMPARTMENT (21"x15"-3/4"x7"-3/4") EQUAL TO ELKAY LR-2522-1. (1-HOLE) MCQUIRE 151A BASKET STRAINER, 1-1/2" TAIL PIECE, FAUCET WITH CENTERED 9" SPOUT & SINGLE LEVER CONTROL. AM. STD. 7074.010. ADA COMPLIANT.
S-2	KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"	STAINLESS STEEL DOUBLE COMPARTMENT (33"x21"-1/4"x7"-7/8") SELF-RIMMING SINK, ELKAY LR-3321-MR2 (2-HOLE), MCQUIRE 151A BASKET STRAINERS, 1-1/2" TAIL PIECE, FAUCET WITH CENTERED SPOUT WITH PULL-OUT SPRAY & SINGLE LEVER CONTROL AM. STD. 4101.350. ADA COMPLIANT.
EWC-1	ELECTRIC WATER COOLER ADA	1-1/2"	1-1/2"	1/2"	1/2"	DUAL-LEVEL BARRIER FREE ELECTRIC WATER COOLER W/BOTTLE FILLING STATION & FILTER MONITOR EQUAL TO ELKAY LZ25LBWSP. 8-GPH 115V/1ø/60, 5.0 FLA. ADA COMPLIANT.
SH-1	ROLL-IN SHOWER ADA	2"	1-1/2"	1/2"	1/2"	MASONRY SHOWER ENCLOSURE BY GENERAL CONTRACTOR. OFFSET PRESSURE-BALANCING MIXING VALVE WITH SCREW STOPS & LEVER HANDLE. DIVERTER VALVE, CHECK STOPS. SHOWER HEAD W/60" S.S. HOSE, HAND SHOWER & WALL OUTLET, WALL SLIDE SUPPORT & V8 AM. STD. 1662SG.223. SHOWER DRAIN SMITH 2051-CP. ADA COMPLIANT.
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"	MASONRY SHOWER ENCLOSURE BY GENERAL CONTRACTOR. PRESSURE-BALANCED SHOWER VALVE WITH SCREW STOPS (AM. STD. R121SS) WITH 1675.501.002 TRIM AND SHOWER HEAD, SMITH 2051-CP SHOWER DRAIN.
IB-1	ICE BOX	-	-	1/2"	-	RECESSED ICE BOX OUTLET, 1/4 TURN BALL VALVE W/HAMMER ARRESTOR. EQUAL TO IPS AB9700-HA.
WS-1	WATER SOFTENER	OPEN SITE DRAIN	-	1-1/2"	-	HELLENBRAND MODEL H151-90. CAPACITY = 84,000 GRAIN, 3.0 CF RESIN, 35 GPM @ 15 PSIG MAX WPD. SOFTENER SIZE: 14"ø x65"H. BRINE TANK: 18"ø x 40" H (265 LB. SALT CAP.). 1-1/2" VALVE/MANIFOLD. METERED DEMAND-CONTROLLED REGENERATION.
FD-1	FLOOR DRAIN	3"	1 1/2"	-	-	POLISHED BRONZE ADJ. ROUNDTOP EQUAL TO SMITH MODEL 2005Y-A-PB. (NO HUB), 2005L-A-PB (CAULKED OUTLET) & PROSET TGH TRAP GUARD.
HD-1	HUB DRAIN	SEE FLOOR PLAN	1-1/2"	-	-	STUB UP WASTE HUB RIM OUTLET 4" AFF WITH HUB OPENING TWICE THE SIZE OF THE PIPE, OR AS NOTED ON PLANS.
FCO	FLOOR CLEANOUTS	SEE FLOOR PLAN	-	-	-	PROVIDE ROUND, SCORLATED POLISHED NICKEL-BRONZE TOP IN FINISHED AREAS, ADJUSTABLE FLOOR CLEANOUT W/FLASHING FLANGE.
RP-BPF -1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	3/4"	-	REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER & AIR GAP DRAIN (ASSE 1013). WATTS 009M20T-S.
RP-BPF -2	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	1-1/4"	-	REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER & AIR GAP DRAIN (ASSE 1013). WATTS 009M20T-S.
RP-BPF -3	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	3"	-	REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER & AIR GAP DRAIN (ASSE 1013). WATTS LF009.

GENERAL FIXTURE NOTES

All water closets shall conform to either ANSI A112.19.2M-82 or ANSI A112.19.-90. Minimum pressure requirement shall be 15 PSI.

All urinals shall conform to ANSI A112.19.2M-20 and A112.19.6-90. Minimum pressure requirement shall be 15 PSI.

All lavatories shall conform to ANSI A112.19.2M.

All stainless steel sinks shall conform to ANSI A112.19.3

All food waste grinders shall conform to ASSE 1008

All showerheads shall conform to ANSI A112.18.1M.

All plumbing fixtures not specifically addressed above shall conform to the applicable standards of SPS chapter 384.20 and those standards set forth in SPS chapters 382 & 383.

All water heaters shall conform to specifications as outlined in SPS 384.20(5)(n). Temperature and pressure relief valves shall be piped to a properly installed drain.

All above referenced plumbing fixtures and equipment shall conform to all applicable portions of the state of Wisconsin Plumbing Code.

PLUMBING HOT WATER SPECIALTIES SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL NO.	CAPACITY	REMARKS
SOLAR STORAGE TANK ST-1	SOLAR HW	BADGERLAND TANKS	BS-54-123	1200 GAL	① ② 54"x10'-9" ASME IV VERTICAL W/HATEX EXCHANGER FLANGES
MIXING VALVE MV-1	POTABLE HOT WATER (110°F)	LEONARD	TM-920B-LF-DT	34 GPM @ 5 PSIG	HIGH-LOW THERMOSTATIC MIXING VALVE 1 1/4"ø INLETS x 1 1/4"ø OUTLET
MIXING VALVE MV-2	NON-POTABLE WASH BAY (150°F)	LEONARD	TM-420-LF-DT	12 GPM @ 5 PSIG	HIGH-LOW THERMOSTATIC MIXING VALVE 3/4"ø INLETS x 1"ø OUTLET
SOLAR PUMP SP-1	SOLAR HW	B & G	ECOCIRC XL-36-45	18 GPM @ 20 FT TDH	⑥ ⑦ STAINLESS STEEL HOUSING 1 1/2"ø FLANGE CONN. (20-200 WATTS) 115V/1ø/3.0 FLA. 1/6 HP
RECIRCULATION PUMP RCP-2	NON-POTABLE WASH BAY	B & G	e3-6V/8TXYC	2 GPM @ 8FT TDH	ECM MOTOR W/TIME CLOCK
INLINE FLOW METER - FM1	POTABLE HOT WATER	ONICON	F-1110	2"ø	④ ⑤ INSERTION SINGLE TURBINE FLOW METER W/TRANSDUCER
INLINE FLOW METER - FM2	SOLAR GLYCOL	ONICON	F-1110	1 1/2"ø	④ ⑤ INSERTION SINGLE TURBINE FLOW METER W/TRANSDUCER
INLINE FLOW METER - FM3	SOLAR NON-POTABLE WASH BAY	ONICON	F-1110	1 1/4"ø	④ ⑤ INSERTION SINGLE TURBINE FLOW METER W/TRANSDUCER
AIR SEPARATOR AS-2	SOLAR GLYCOL	SPIROTHERM	VSR-150	1 1/2"ø NPT	W/AUTO AIR VENT & DRAIN
EXPANSION TANK ET-1	SOLAR HW	B & G	B400 LA	106 GAL. TANK (53 GAL. ACCEPT)	⑧ 1"ø CONN., 24"øx56"H ASME 125 PSIG
EXPANSION TANK ET-2	SOLAR GLYCOL	B & G	B35 LA	10 GAL. TANK (10 GAL. ACCEPT)	⑧ 1"ø CONN., 10"øx37 1/4"H ASME 125 PSIG
GLYCOL FILL TANK/PUMP GF-1	SOLAR GLYCOL (50%)	WESSELS CO.	GMP-18	18 GAL	⑨ PRESSURIZING PUMP WITH CONTROLS, PRV. PRESSURE GAUGE SET @ 12 PSIG 115 VOLT/1-PHASE/60HZ
PRESSURE RELIEF VALVE RV-1	SOLAR WATER	B & G	790-50	3/4" x 3/4" 790 MBH	50 PSIG SETTING; BRASS BODY ASME
PRESSURE RELIEF VALVE RV-2	SOLAR GLYCOL	B & G	790-50	3/4" x 3/4" 790 MBH	50 PSIG SETTING; BRASS BODY ASME
CALIBRATED BALANCE VALVES	HW	B & G	CB SERIES	SEE PLAN FOR SIZES	MANUAL CALIBRATED BALANCE VALVE
HIGH PRESSURE WASHER HPW-2	WASH BAY 2	AALADIN	16-423-SLC	4 GPM @ 2300 PSIG 415 MBH INPUT	⑩ ⑪ GAS-FIRED HIGH PRESSURE WASHER WALL-MTD SUPPORT

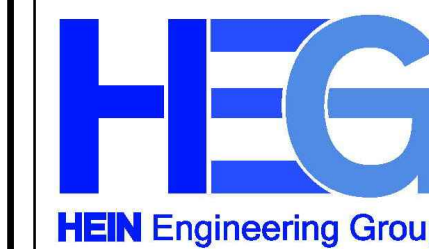
- ① EPOXY LINED.
- ② PRE-INSULATED.
- ③ PROVIDE (3) 8"øx8" IN-TANK HEAT EXCHANGER MTG FLANGES AT TANK PER DRAWING DETAILS.
- ④ PROVIDE PIPING TEE WITH 1"ø FULL PORT BALL VALVE FOR FLOW METER INSERTION.
- ⑤ FLOW METER PROVIDED BY TEMP. CONTROL SUB-CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR.
- ⑥ DIFFERENTIAL PRESSURE RESET BY FLUID TEMPERATURE (SENSOR @ PUMP); INCREASE DIFFERENTIAL PRESSURE WITH TEMPERATURE.
- ⑦ PROVIDE 1 1/2" INLINE TRIPLE DUTY VALVE @ DISCHARGE; B & G 3DV-1 1/2 NMF (Cv=25).
- ⑧ CHARGE EXP. TANK TO 12 PSIG @ 60 deg. F WTR TEMP IN HW LOOP.
- ⑨ PROVIDE ALARM KIT WITH FLOAT.
- ⑩ HPW VENDOR TO ARRANGE FOR INSTALLATION, FLUE VENTING & LOW VOLTAGE WIRING FOR COMPLETE OPERATION.
- ⑪ HPW VENDOR TO PROVIDE WATER PRE-FILTER & 10"ø VENTING THRU ROOF W/BACKDRAFT DAMPER.

PLUMBING SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
- - - - -	WASTE BELOW GROUND
---ST---	STORM BELOW GROUND
---CW---	CLEAR WATER WASTE
- - - - -	WASTE ABOVE GROUND
---ST---	STORM ABOVE GROUND
---W---	WATER SERVICE
---	COLD WATER
---	HOT WATER
- - - - -	HOT WATER RECIRCULATION LINE
- - - - -	VENT
- - - - -	UNDERGROUND VENT
---	GAS LINE
---	FIRE PROTECTION
---	SOLAR SUPPLY
---	SOLAR RETURN
---	PIPE UP
---	PIPE DOWN
---	CLEAN OUT
---	CALIBRATED BALANCE VALVE
---	BALL VALVE
---	INLINE PUMP
---	CHECK VALVE
---	UNION
---	GAS VALVE
---	BACKFLOW PREVENTER VALVE
---	RP - REDUCED PRESSURE PRINCIPLE
---	DC - DOUBLE CHECK VALVE
BFP	BACKFLOW PREVENTER
CWW	CLEAR WATER WASTE
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
HB	HOSE BIBB
CV	CIRCUIT VENT
WH	WALL HYDRANT
VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN
HD	HUB DRAIN
RV	RELIEF VENT
RCP	DHW RECIRCULATION PUMP
UC	UNDERGROUND
UV	UNDERGROUND VENT
WHA	WATER HAMMER ARRESTOR
WR	WATER PIPING RISER
WV	WET VENT
WVR	WASTE & VENT RISER



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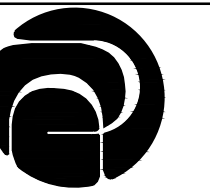
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PLUMBING
DETAILS &
SCHEDULES

PROJECT #: H1620
SHEET NUMBER

P300



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UNIT B -
HVAC
DEMOLITION
PLAN

PROJECT #: H1620
SHEET NUMBER

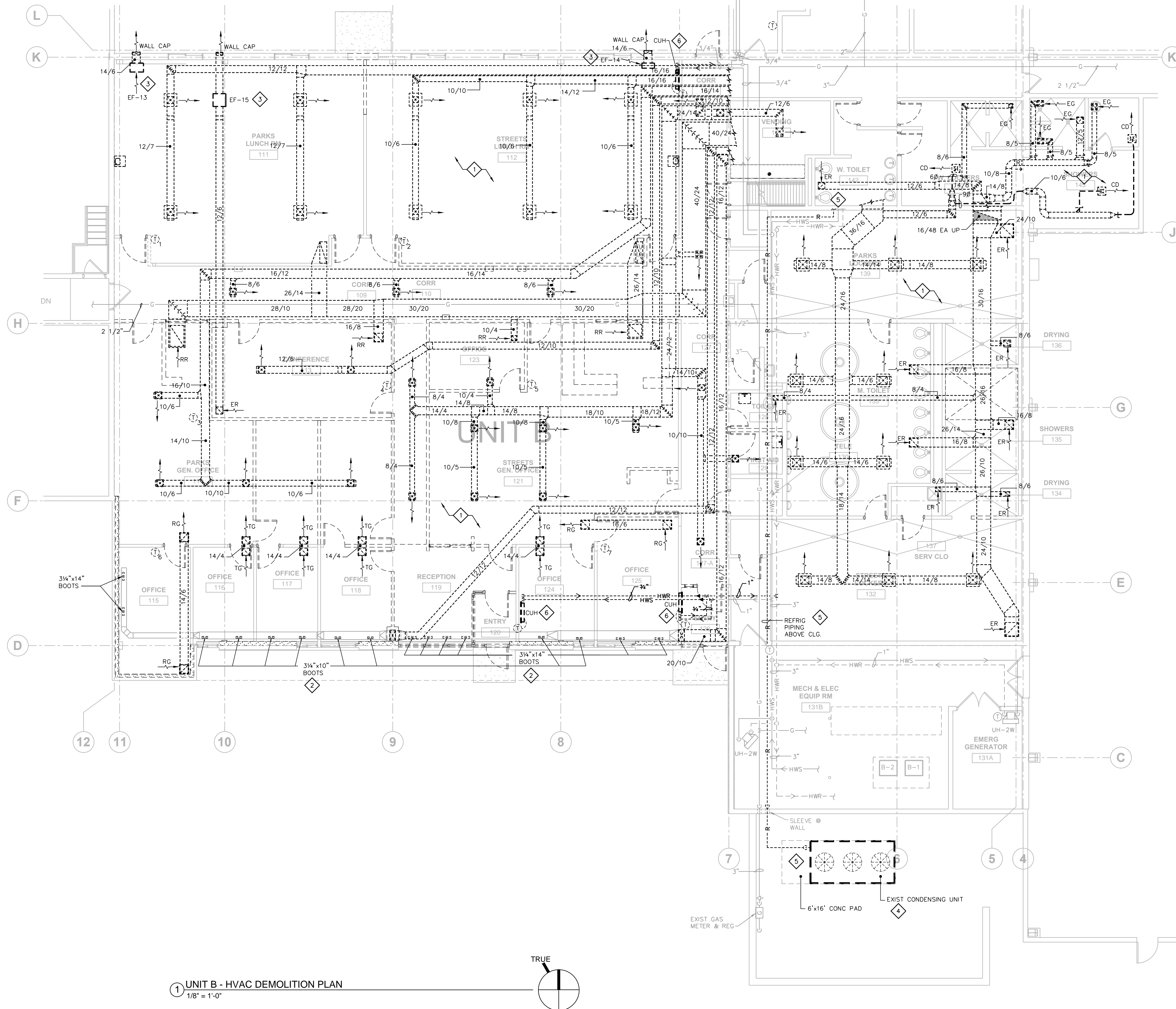
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HVAC GENERAL NOTES:

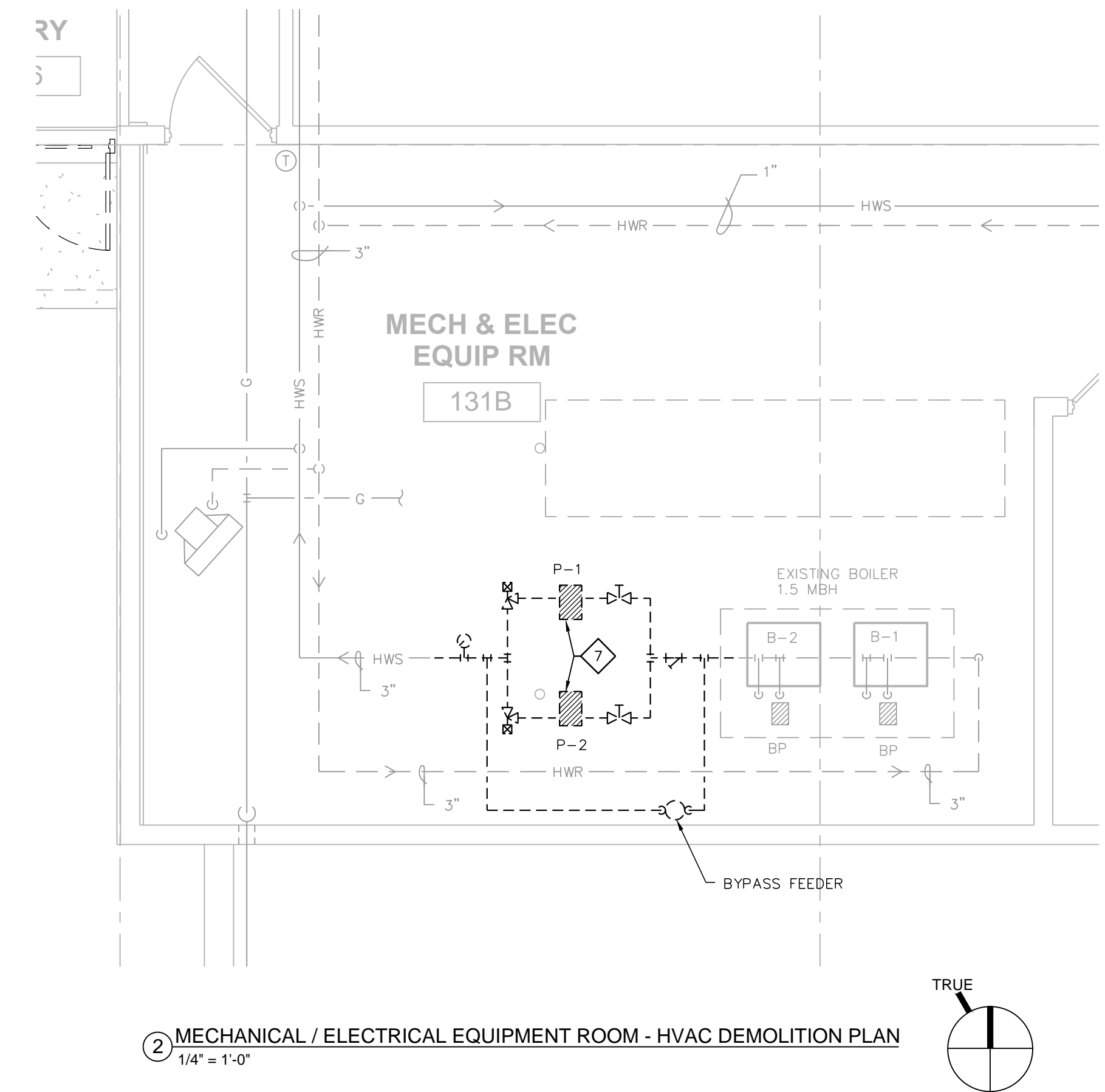
1. HVAC CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF HVAC WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE DEMOLITION WORK WITH OTHER TRADES.

HVAC DEMOLITION PLAN NOTES:

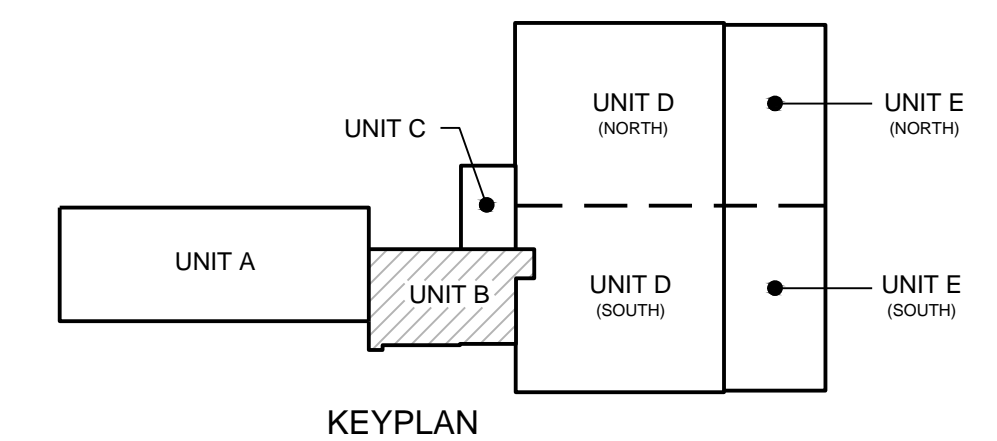
1. DISCONNECT AND REMOVE EXISTING DUCTWORK AS SHOWN.
2. REMOVE FLOOR REGISTERS AND PATCH UNDERGROUND DUCT OPENING AT FLOOR WITH CONCRETE.
3. DISCONNECT AND REMOVE CEILING EXHAUST FAN, DUCTWORK AND SOFFIT GRILLE. PATCH SOFFIT OPENING TO MATCH EXISTING. COORDINATE WORK WITH ELECTRICAL TRADE.
4. EVACUATE & RECOVER (R22) REFRIGERANT AT EXISTING CONDENSING UNIT. DISCONNECT AND REMOVE. COORDINATE WORK WITH ELECTRICAL TRADE.
5. EVACUATE & RECOVER (R22) REFRIGERANT IN REFRIGERANT LINES AND REMOVE.
6. DISCONNECT AND REMOVE EXISTING CABINET UNIT HEATER CONTROLS & PIPING CONNECTORS. CAP PIPING FOR REUSE WITH NEW PLAN, IF APPLICABLE.
7. DISCONNECT AND REMOVE EXISTING PUMPS, PIPING & RELATED. CAP PIPING FOR REUSE WITH NEW PLAN. COORDINATE WORK WITH ELECTRICAL TRADE.



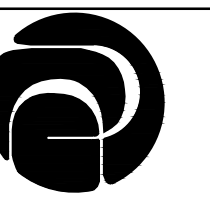
1 UNIT B - HVAC DEMOLITION PLAN
1/8" = 1'-0"



2 MECHANICAL / ELECTRICAL EQUIPMENT ROOM - HVAC DEMOLITION PLAN
1/4" = 1'-0"



KEYPLAN



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BID SET 5-15-2019

**UNIT B -
HVAC
DUCTWORK
PLAN**

PROJECT #: H1620

SHEET NUMBER

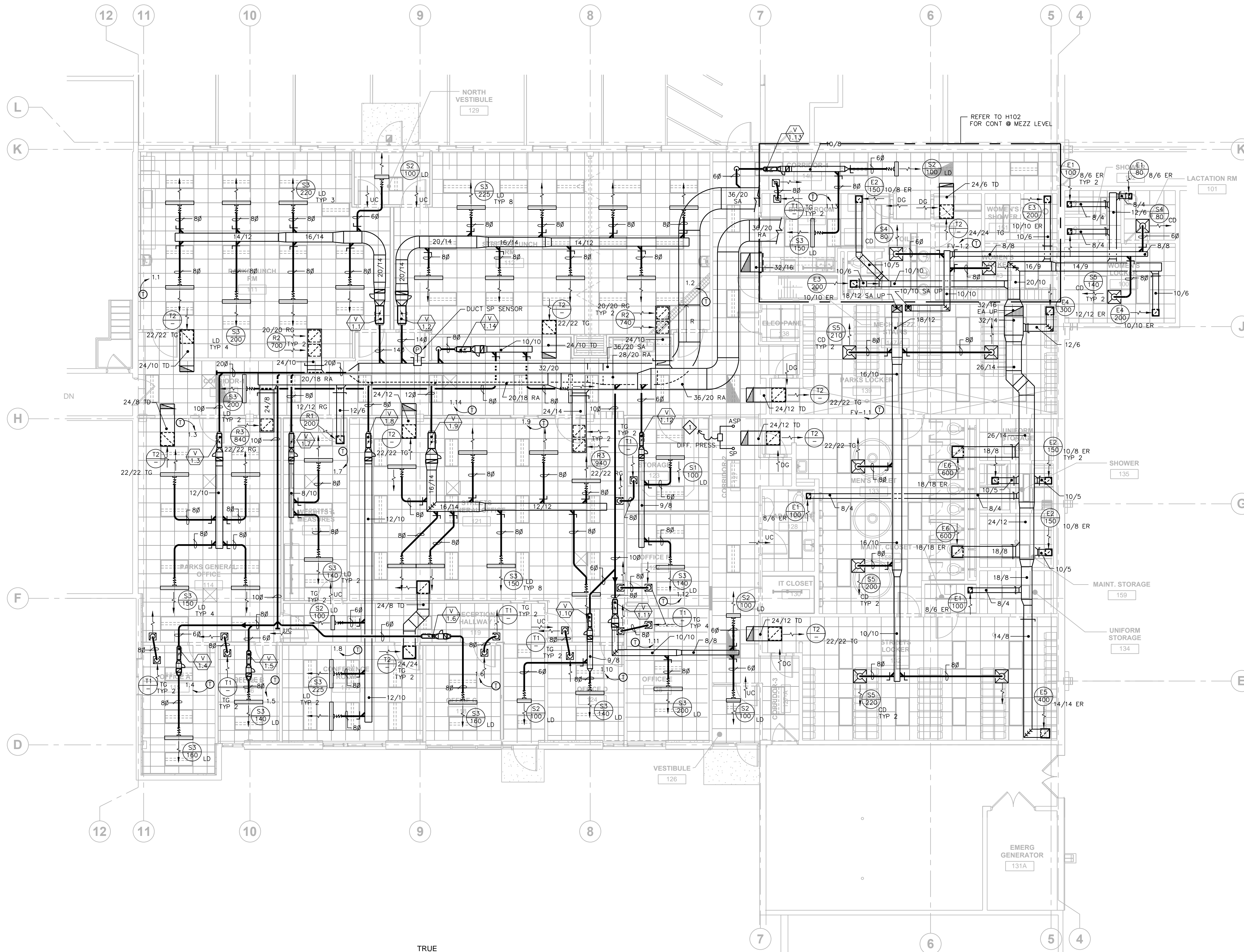
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GENERAL NOTES:

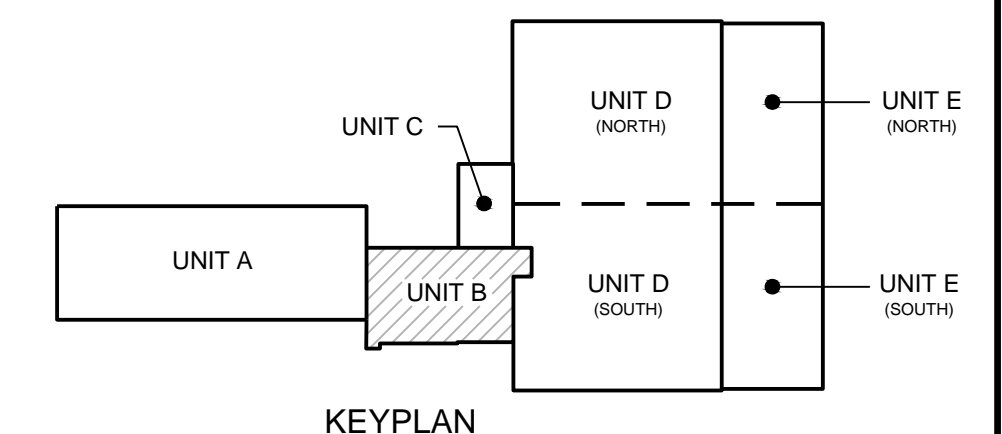
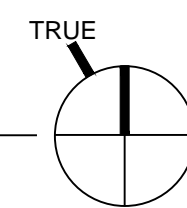
1. HVAC CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE HVAC DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF HVAC WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION I SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE CEILING LAYOUT WITH GENERAL CONTRACTOR AND LIGHTING PLANS.

HVAC PLAN NOTES:

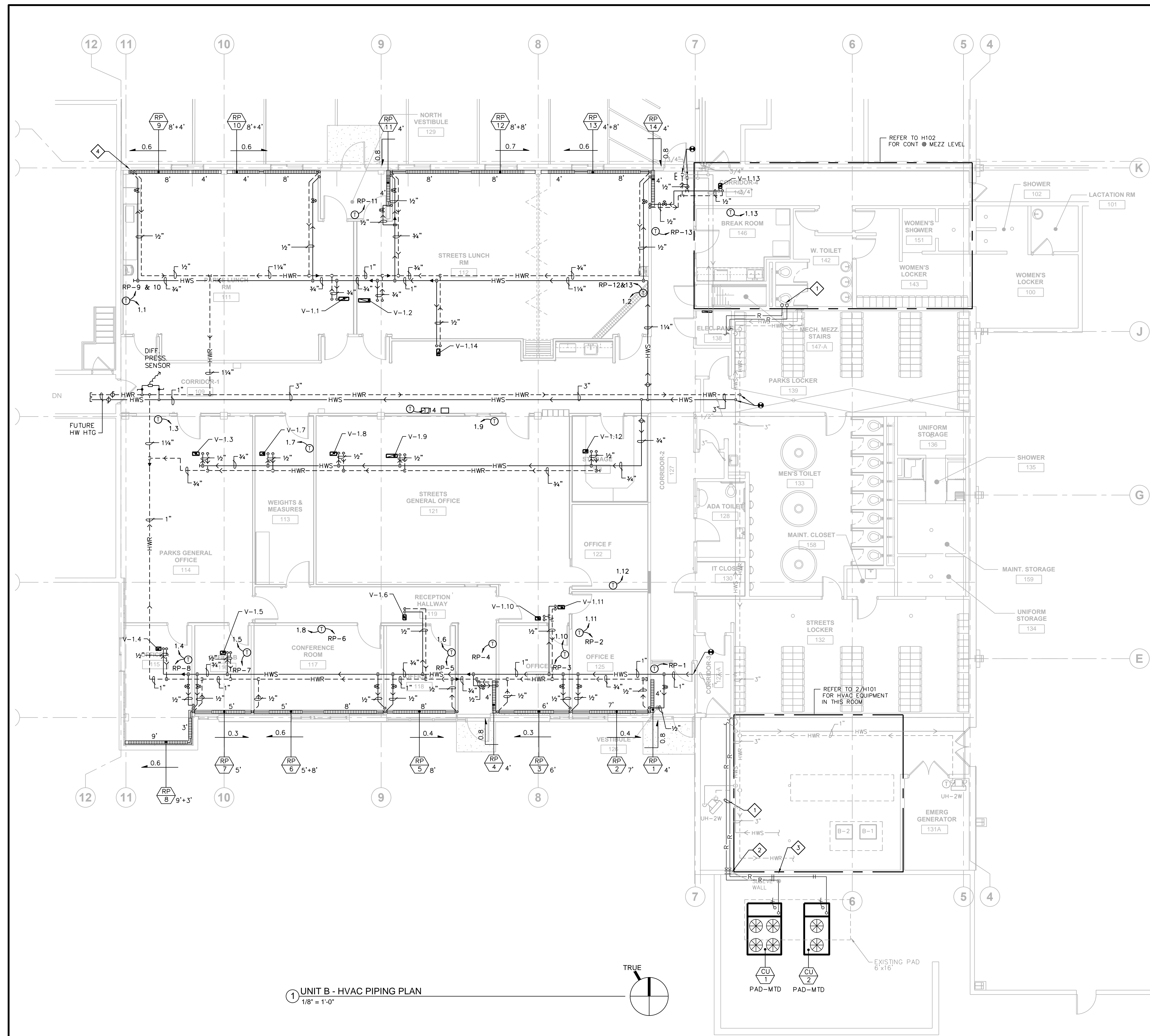
- = CONNECT TO EXISTING
- ◇ DIFFERENTIAL SPACE STATIC PRESSURE SENSOR. COORDINATE ROOF-MTD AMBIENT SENSOR WITH GENERAL CONTRACTOR.



1 UNIT B - HVAC DUCTWORK PLAN
1/8" = 1'-0"



KEYPLAN



① UNIT B - HVAC PIPING PLAN
1/8" = 1'-0"

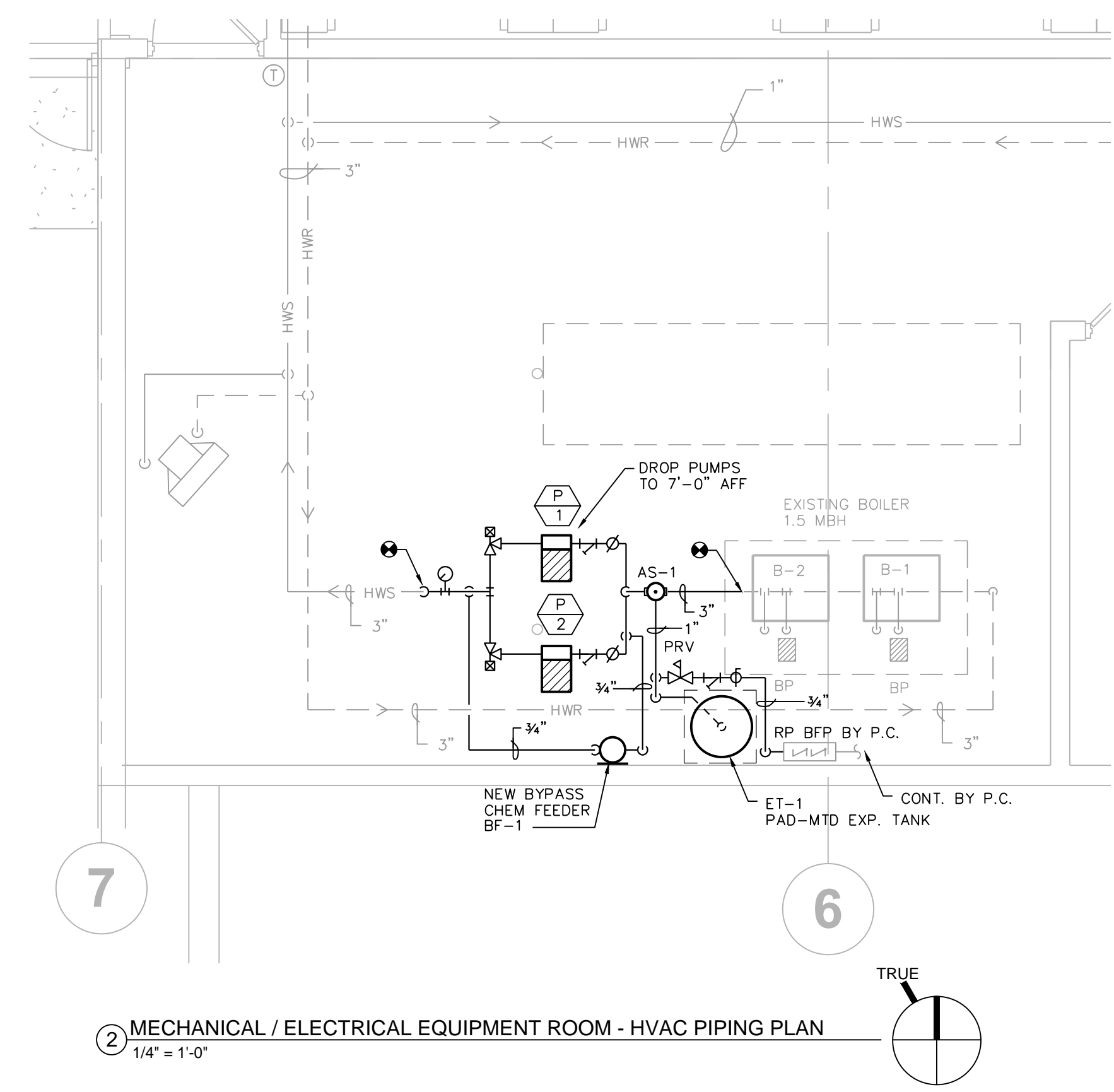
GENERAL NOTES:

- HVAC CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE HVAC DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF HVAC WORK REQUIRED.
- COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
- REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
- COORDINATE PIPE ROUTING WITH OTHER TRADES FOR PROPER CEILING MOUNTING HEIGHT AND PIPE DRAINAGE TO LOW POINT.

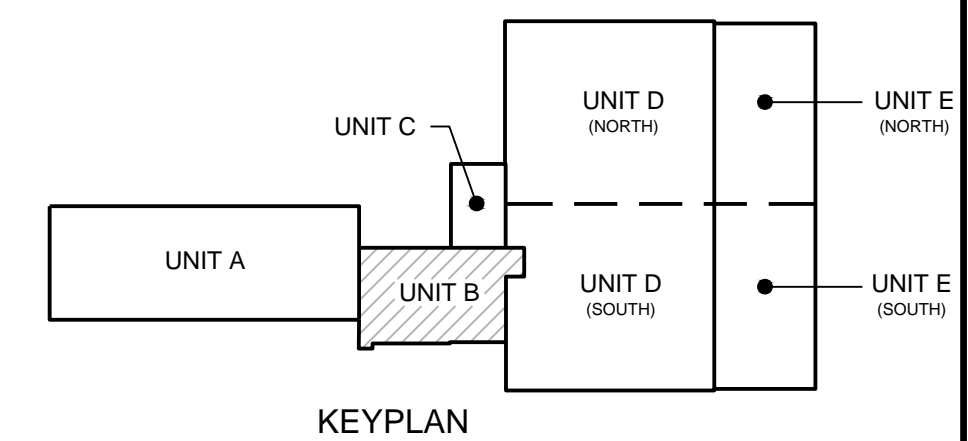
● = CONNECT TO EXISTING

HVAC PLAN NOTES:

- ◇ CU-1: 2 SETS 1 3/8" RS & 3/8" RL
- ◇ CU-2: 2 SETS 3/8" RS & 1/2" RL
- ◇ SLEEVE & SEAL WALL PENETRATION WATERTIGHT.
- ◇ SUPPORT REF. PIPING @ WALL.
- ◇ PROVIDE METAL ENCLOSURE FROM CLG TO RADIATION PANEL FOR PIPING DROP. MATCH RADIATION COLOR & DEPTH. PROVIDE NECESSARY WIDTH FOR PIPING WITH INSULATION.



② MECHANICAL / ELECTRICAL EQUIPMENT ROOM - HVAC PIPING PLAN
1/4" = 1'-0"



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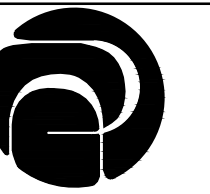
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UNIT B -
HVAC PIPING
PLAN

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H101



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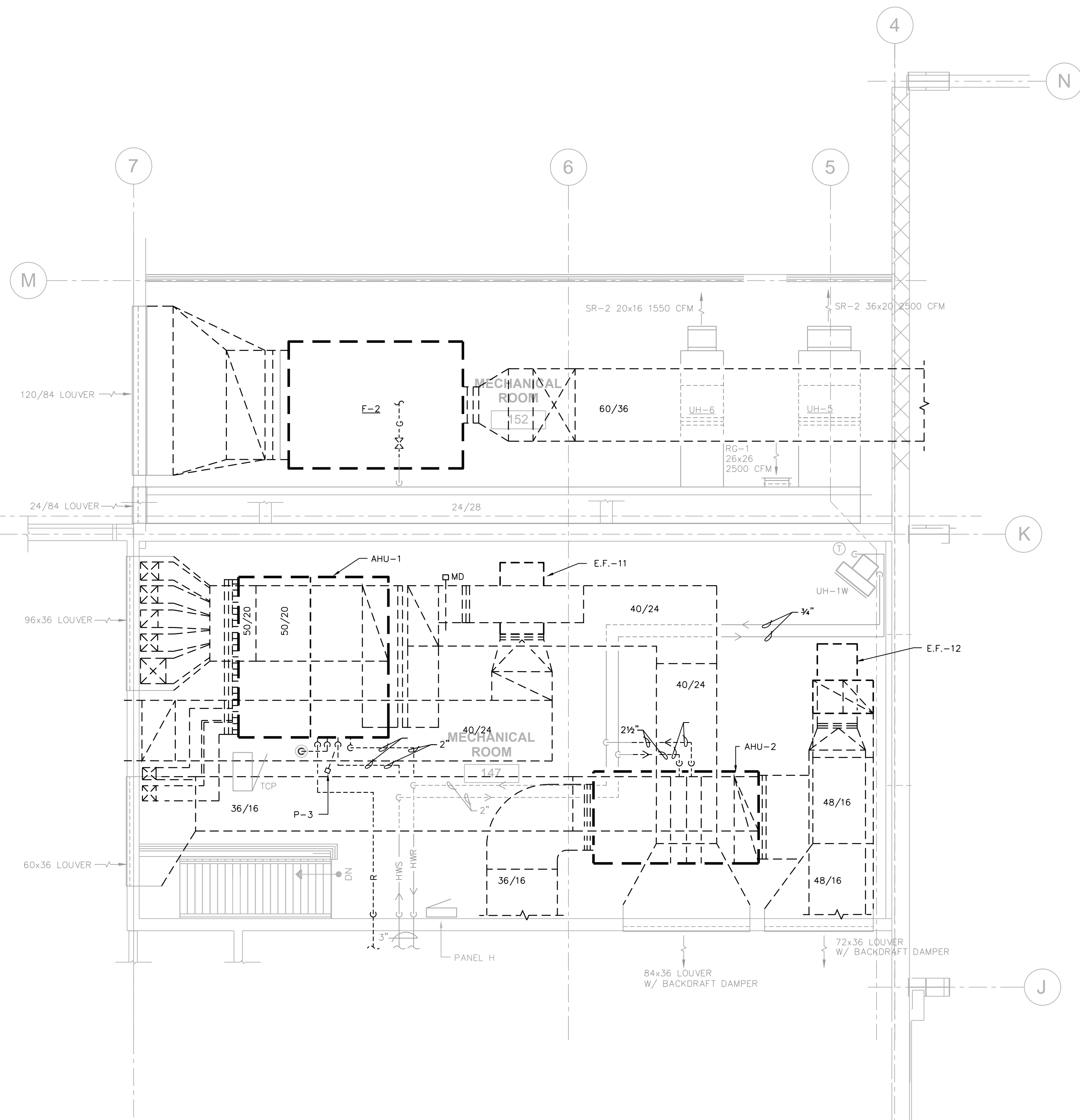
ISSUANCES:

BID SET 5-15-2019

**UNIT B -
MEZZANINE
LEVEL - HVAC
PLANS**

PROJECT #: H1620
SHEET NUMBER

H102



① UNIT B - MEZZANINE - HVAC DEMOLITION PLAN
1/4" = 1'-0"

GENERAL NOTES:

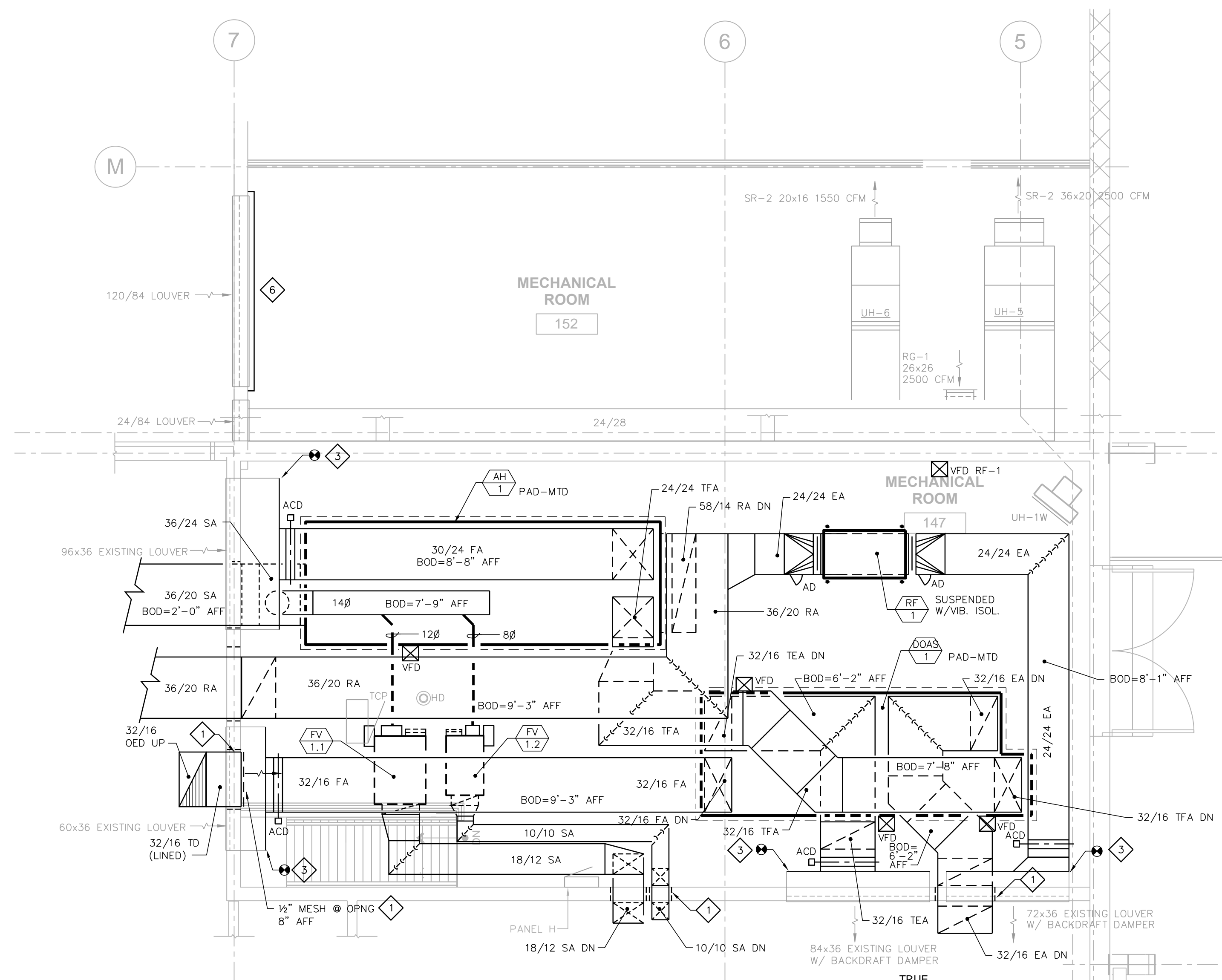
- HVAC CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF HVAC WORK REQUIRED.
 - COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
 - REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
 - COORDINATE DEMOLITION AND NEW WORK WITH OTHER TRADES.
 - PROTECT EXISTING HONEYWELL CONTROLS FOR REUSE WITH NEW PLAN.
 - MAINTAIN 7'-0" HEAD CLEARANCE WITH DUCTWORK AND PIPING.
 - REFER TO SHEET H200 FOR EQUIPMENT & DUCT ELEVATIONS.
 - ADD ALTERNATE BID #2: GARAGE VENTILATION SYSTEM REPLACEMENT AT SECTIONS D & E.
- ⊕ = CONNECT TO EXISTING

HVAC DEMOLITION PLAN NOTES:

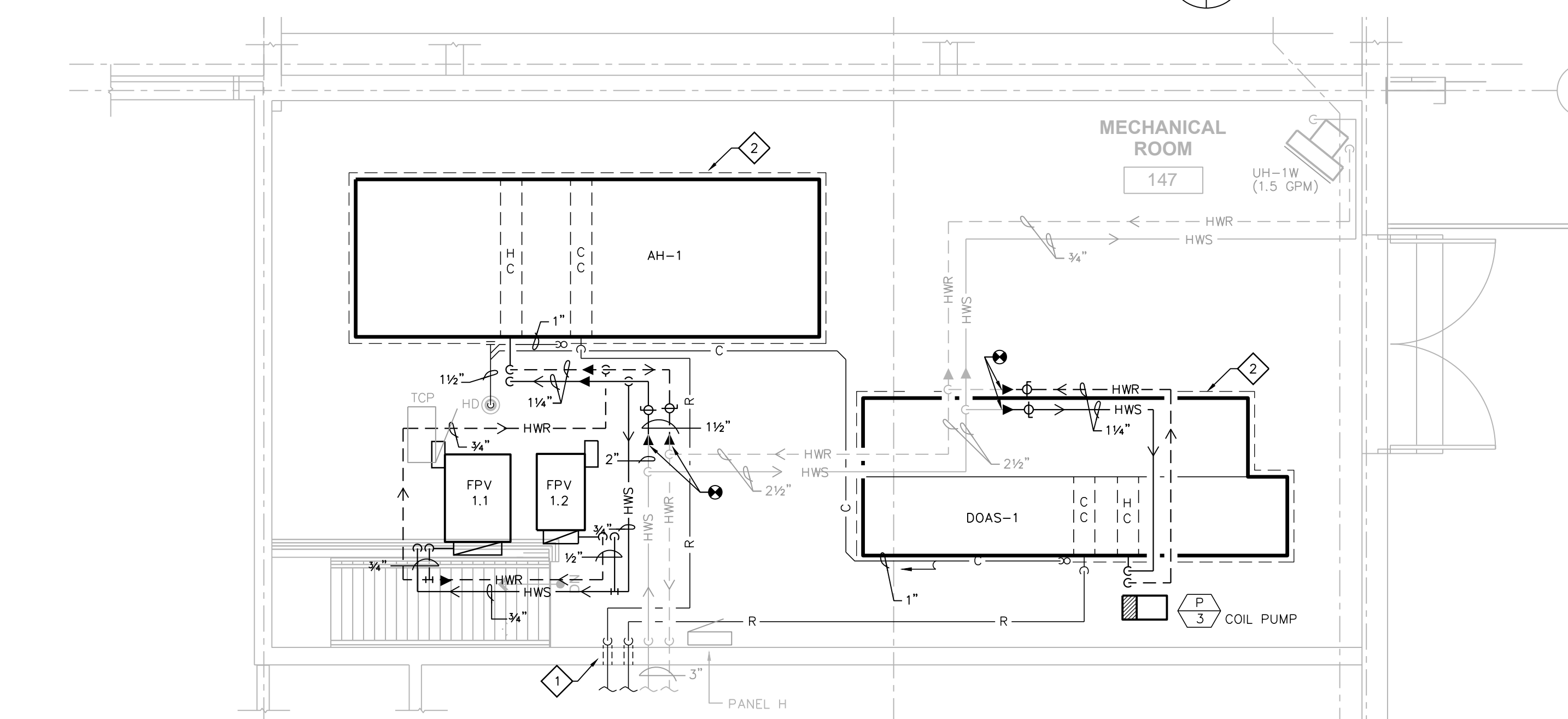
- ⊕ DISCONNECT AND REMOVE EXISTING DUCTWORK AS SHOWN.
- ⊕ DISCONNECT AND REMOVE EXISTING PIPING AS SHOWN. PROTECT PIPING FOR REUSE WITH NEW PLAN.
- ⊕ DISCONNECT AND REMOVE EXISTING AIR HANDLERS, DUCTWORK AND RELATED. COORDINATE WORK WITH ELECTRICAL TRADE.
- ⊕ DISCONNECT AND REMOVE EXISTING EXHAUST FANS, DUCTWORK AND RELATED.
- ⊕ DISCONNECT AND REMOVE EXISTING MAKE-UP UNIT F-2. REMOVE UNIT THRU EXISTING LOUVER OPENING AND REPLACE.
- ⊕ BLANK-OFF LOUVER OPENING AND INSULATE WITH 2" RIGID BOARD.

HVAC PLAN NOTES:

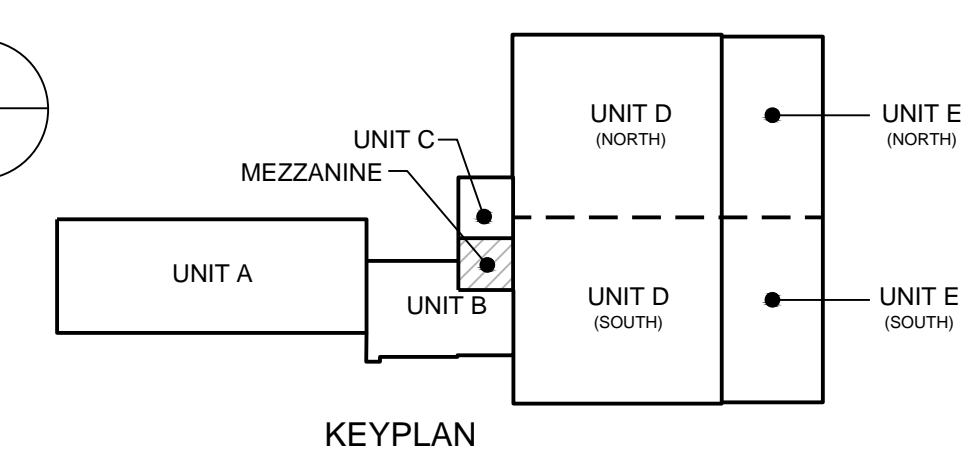
- ⊕ CUT AND PATCH EXISTING MASONRY WALLS FOR NEW DUCT & PIPE PENETRATIONS. IN FILL AREAS AROUND NEW DUCTS & PIPES WITH SHEET METAL SLEEVES.
- ⊕ POUR NEW EQUIPMENT PADS OR EXTEND EXISTING TO ACCOMMODATE NEW EQUIPMENT.
- ⊕ REUSE EXISTING LOUVER OPENING WITH NEW BLANK-OFF SECTIONS. INSULATE ALL PLENUMS WITH 2" RIGID DUCT INSULATION.



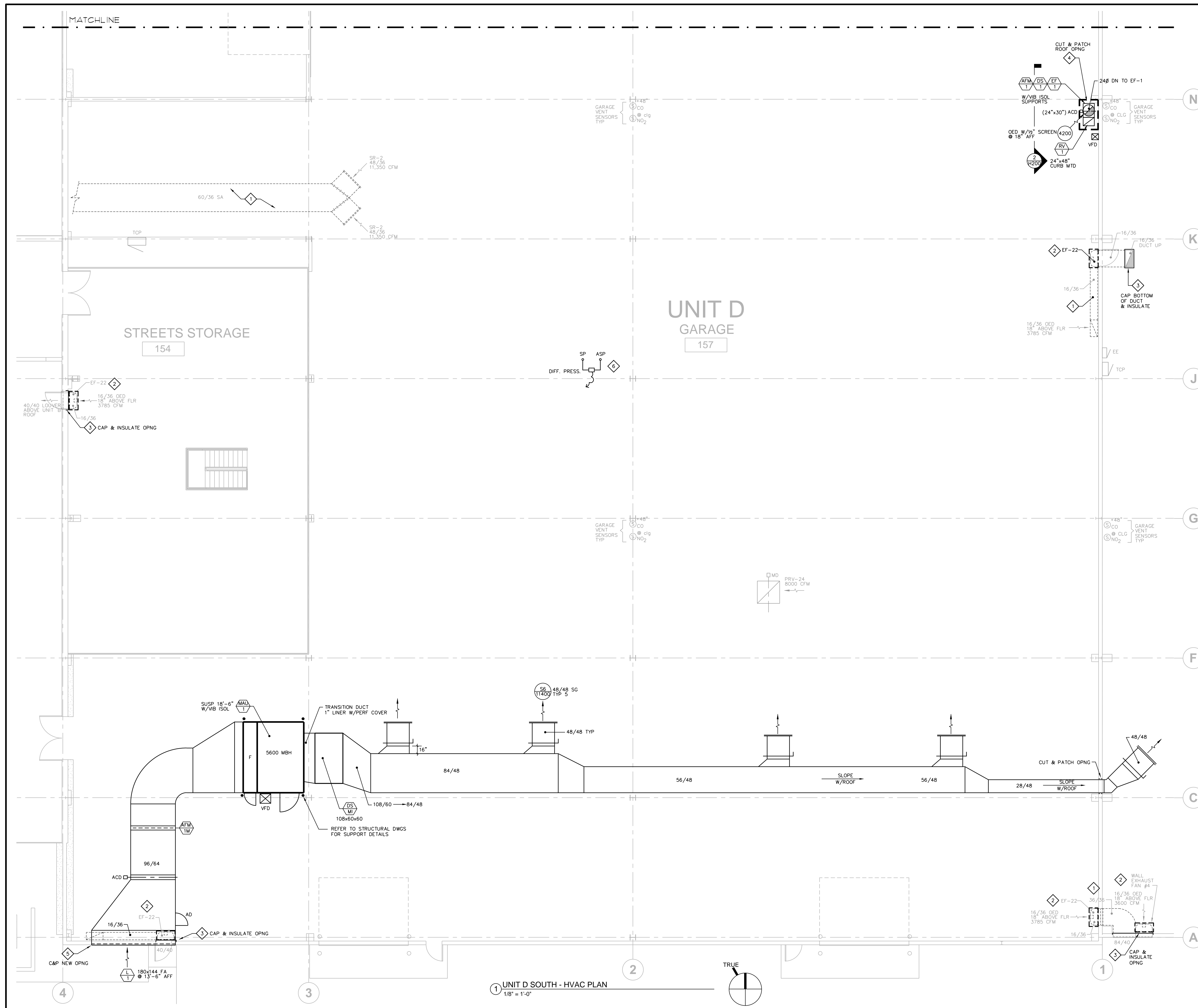
② UNIT B - MEZZANINE - HVAC DUCTWORK PLAN
1/4" = 1'-0"



③ UNIT B - MEZZANINE - HVAC PIPING PLAN
1/4" = 1'-0"

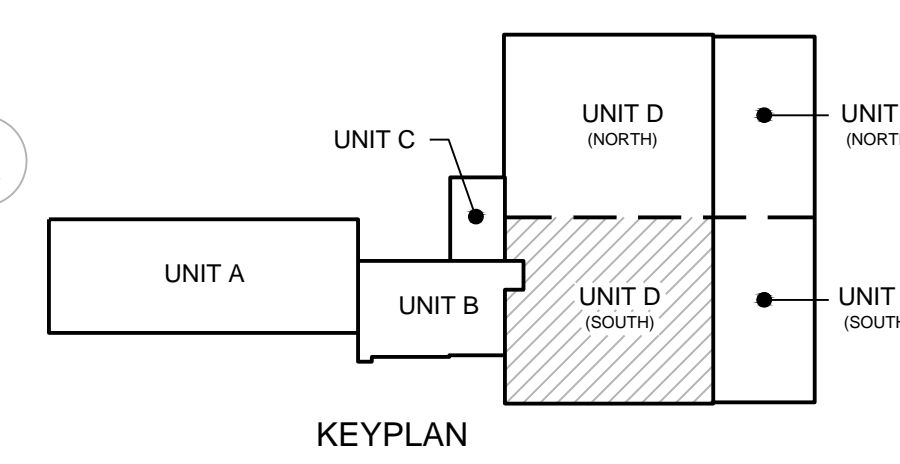


KEYPLAN



- HVAC GENERAL NOTES:**
- HVAC CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF HVAC WORK REQUIRED.
 - COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
 - REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
 - COORDINATE EQUIPMENT AND DUCTWORK LAYOUT WITH EXISTING SYSTEMS AND OTHER TRADES.
 - REFER TO DIVISION 7 ROOFING REQUIREMENTS FOR PATCHING, EXISTING ROOF AND MAINTAINING ROOFING WARRANTY.
 - REFER TO STRUCTURAL S-SERIES DRAWINGS FOR COORDINATION OF NEW OPENINGS AND EQUIPMENT SUPPORTS.
 - ADD ALTERNATE BID #2: GARAGE VENTILATION SYSTEM REPLACEMENT AT SECTIONS D & E.

- HVAC PLAN NOTES:**
- DISCONNECT AND REMOVE EXISTING DUCTWORK AS SHOWN.
 - DISCONNECT AND REMOVE WALL EXHAUST FAN, DUCTWORK AND RELATED. COORDINATE WORK WITH ELECTRICAL TRADE.
 - BLANK OFF EXISTING LOUVER OR DUCT OPENINGS AND INSULATE 2" RIGID BOARD INSULATION ON OUTSIDE. SEAL OPENING WATERTIGHT.
 - CUT AND PATCH ROOF FOR NEW OPENING. RETAIN CERTIFIED ROOFING CONTRACTOR FOR ROOF WARRANTY WORK.
 - CUT AND PATCH EXISTING WALL OPENING FOR NEW LOUVER. FLASH NEW LOUVER FOR WATERTIGHT INSTALLATION.
 - DIFFERENTIAL SPACE STATIC PRESSURE SENSOR. COORDINATE ROOF-MTD AMBIENT SENSOR WITH GENERAL CONTRACTOR.



1 UNIT D SOUTH - HVAC PLAN
1/8" = 1'-0"

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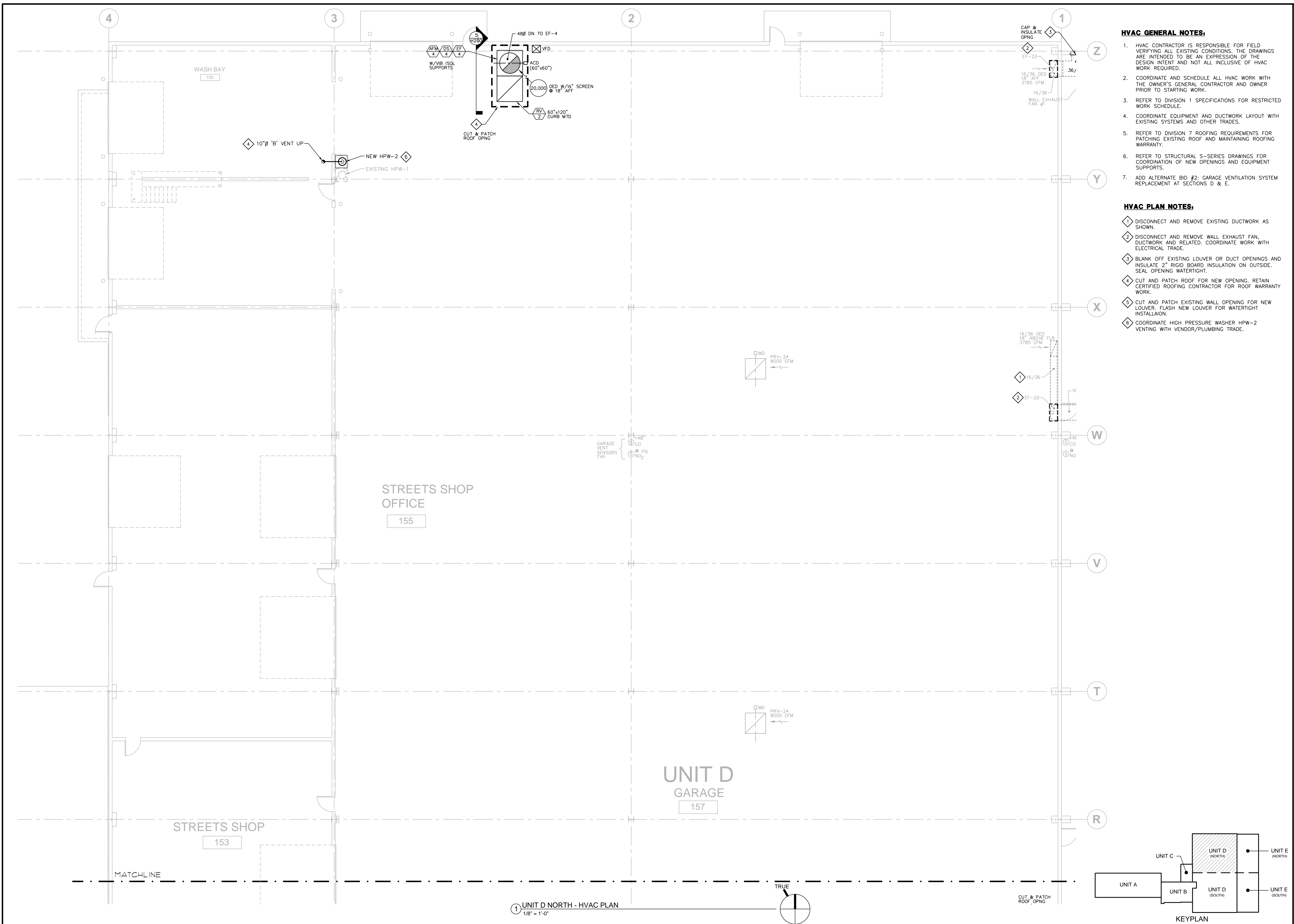
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UNIT D SOUTH - HVAC PLAN

PROJECT #: H1620
SHEET NUMBER

H103



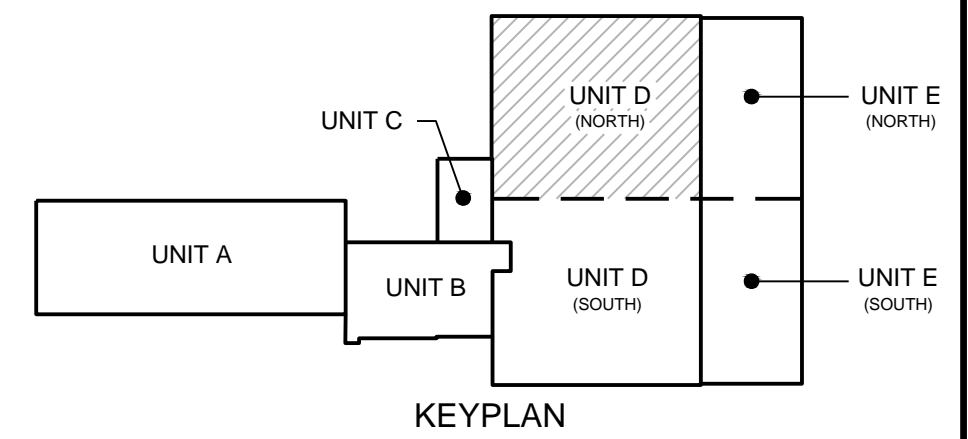
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3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE EQUIPMENT AND DUCTWORK LAYOUT WITH EXISTING SYSTEMS AND OTHER TRADES.
5. REFER TO DIVISION 7 ROOFING REQUIREMENTS FOR PATCHING EXISTING ROOF AND MAINTAINING ROOFING WARRANTY.
6. REFER TO STRUCTURAL S-SERIES DRAWINGS FOR COORDINATION OF NEW OPENINGS AND EQUIPMENT SUPPORTS.
7. ADD ALTERNATE BID #2: GARAGE VENTILATION SYSTEM REPLACEMENT AT SECTIONS D & E.

HVAC PLAN NOTES:

- 1 DISCONNECT AND REMOVE EXISTING DUCTWORK AS SHOWN.
- 2 DISCONNECT AND REMOVE WALL EXHAUST FAN, DUCTWORK AND RELATED. COORDINATE WORK WITH ELECTRICAL TRADE.
- 3 BLANK OFF EXISTING LOUVER OR DUCT OPENINGS AND INSULATE 2" RIGID BOARD INSULATION ON OUTSIDE. SEAL OPENING WATERTIGHT.
- 4 CUT AND PATCH ROOF FOR NEW OPENING. RETAIN CERTIFIED ROOFING CONTRACTOR FOR ROOF WARRANTY WORK.
- 5 CUT AND PATCH EXISTING WALL OPENING FOR NEW LOUVER. FLASH NEW LOUVER FOR WATERTIGHT INSTALLATION.
- 6 COORDINATE HIGH PRESSURE WASHER HPW-2 VENTING WITH VENDOR/PLUMBING TRADE.

1 UNIT D NORTH - HVAC PLAN
1/8" = 1'-0"



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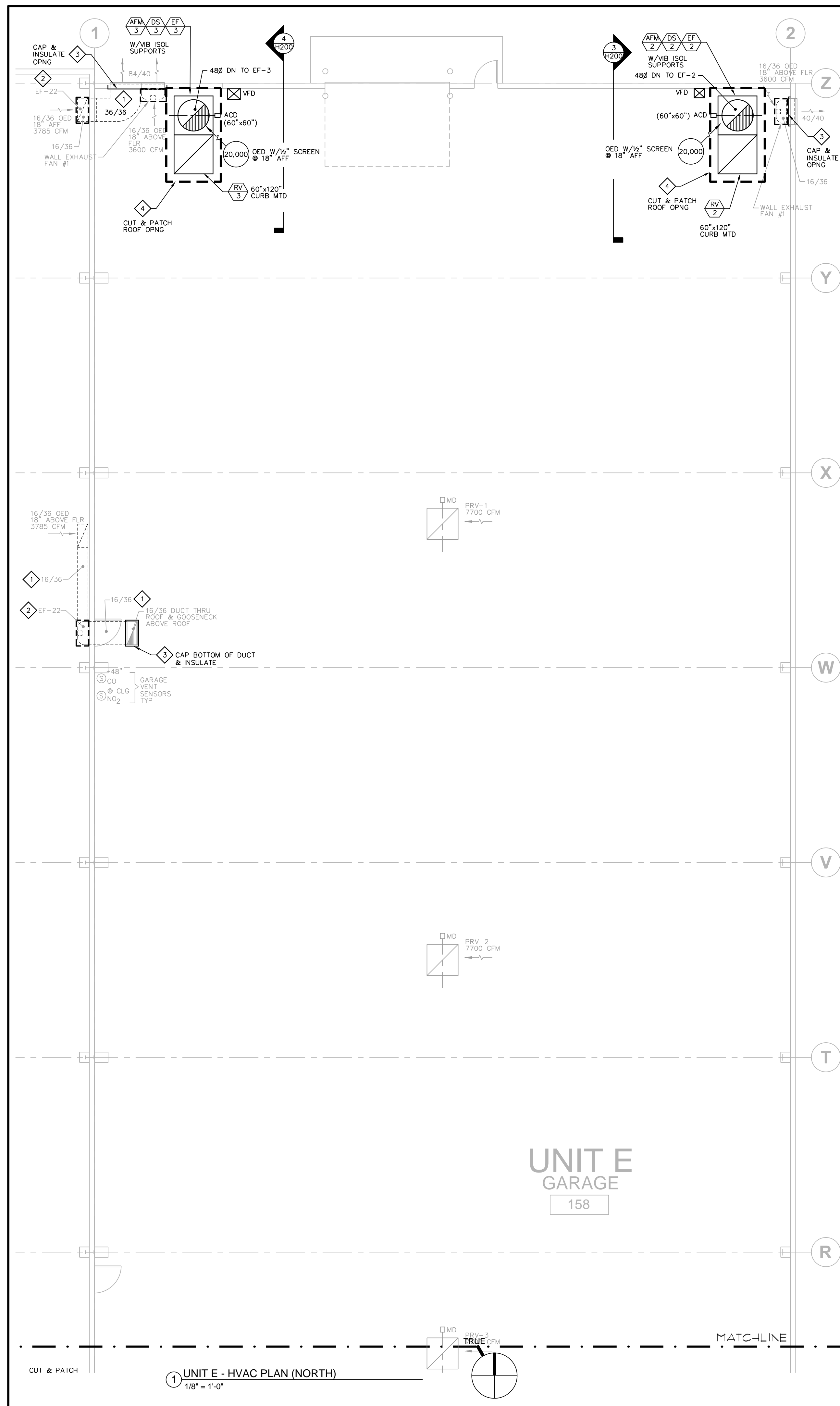
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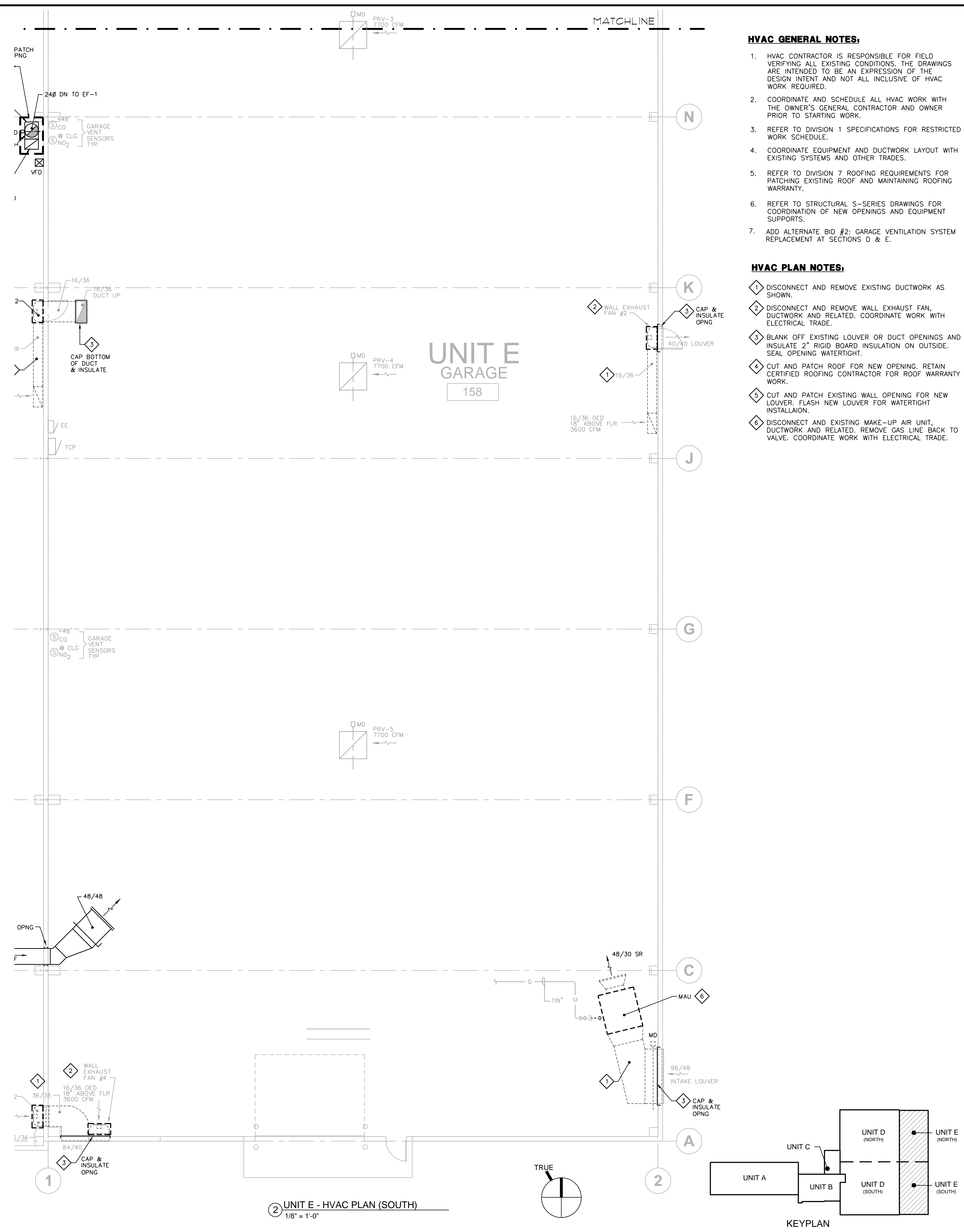
UNIT D NORTH-
HVAC PLAN

PROJECT #: H1620
SHEET NUMBER

H104



① UNIT E - HVAC PLAN (NORTH)
1/8" = 1'-0"



② UNIT E - HVAC PLAN (SOUTH)
1/8" = 1'-0"

HVAC GENERAL NOTES:

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2. COORDINATE AND SCHEDULE ALL HVAC WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE EQUIPMENT AND DUCTWORK LAYOUT WITH EXISTING SYSTEMS AND OTHER TRADES.
5. REFER TO DIVISION 7 ROOFING REQUIREMENTS FOR PATCHING EXISTING ROOF AND MAINTAINING ROOFING WARRANTY.
6. REFER TO STRUCTURAL 5-SERIES DRAWINGS FOR COORDINATION OF NEW OPENINGS AND EQUIPMENT SUPPORTS.
7. ADD ALTERNATE BID #2: GARAGE VENTILATION SYSTEM REPLACEMENT AT SECTIONS D & E.

HVAC PLAN NOTES:

- ① DISCONNECT AND REMOVE EXISTING DUCTWORK AS SHOWN.
- ② DISCONNECT AND REMOVE WALL EXHAUST FAN, DUCTWORK AND RELATED. COORDINATE WORK WITH ELECTRICAL TRADE.
- ③ BLANK OFF EXISTING LOUVER OR DUCT OPENINGS AND INSULATE 2" RIGID BOARD INSULATION ON OUTSIDE. SEAL OPENING WATERTIGHT.
- ④ CUT AND PATCH ROOF FOR NEW OPENING. RETAIN CERTIFIED ROOFING CONTRACTOR FOR ROOF WARRANTY WORK.
- ⑤ CUT AND PATCH EXISTING WALL OPENING FOR NEW LOUVER. FLASH NEW LOUVER FOR WATERTIGHT INSTALLATION.
- ⑥ DISCONNECT AND EXISTING MAKE-UP AIR UNIT, DUCTWORK AND RELATED. REMOVE GAS LINE BACK TO VALVE. COORDINATE WORK WITH ELECTRICAL TRADE.

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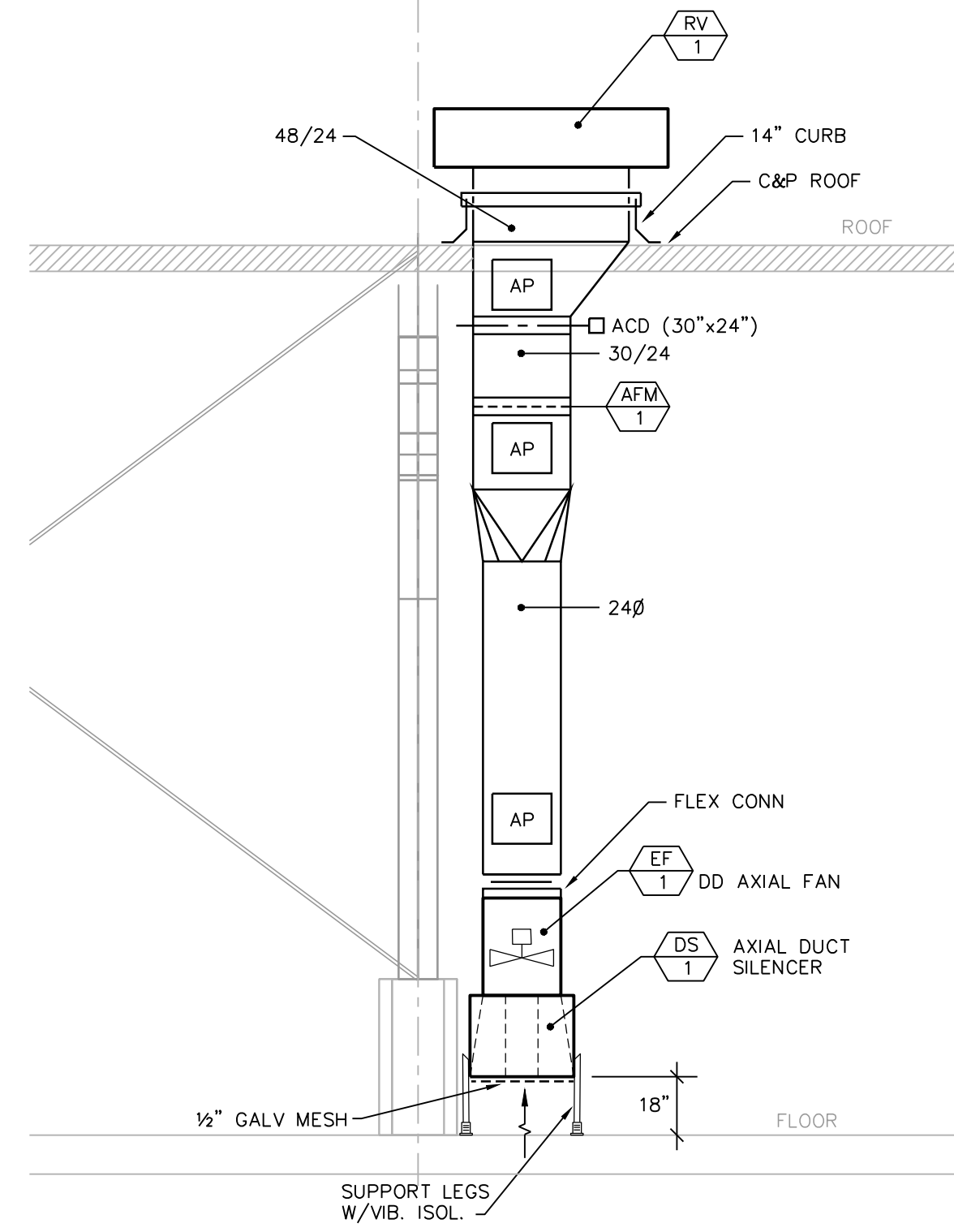
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ISSUANCES:
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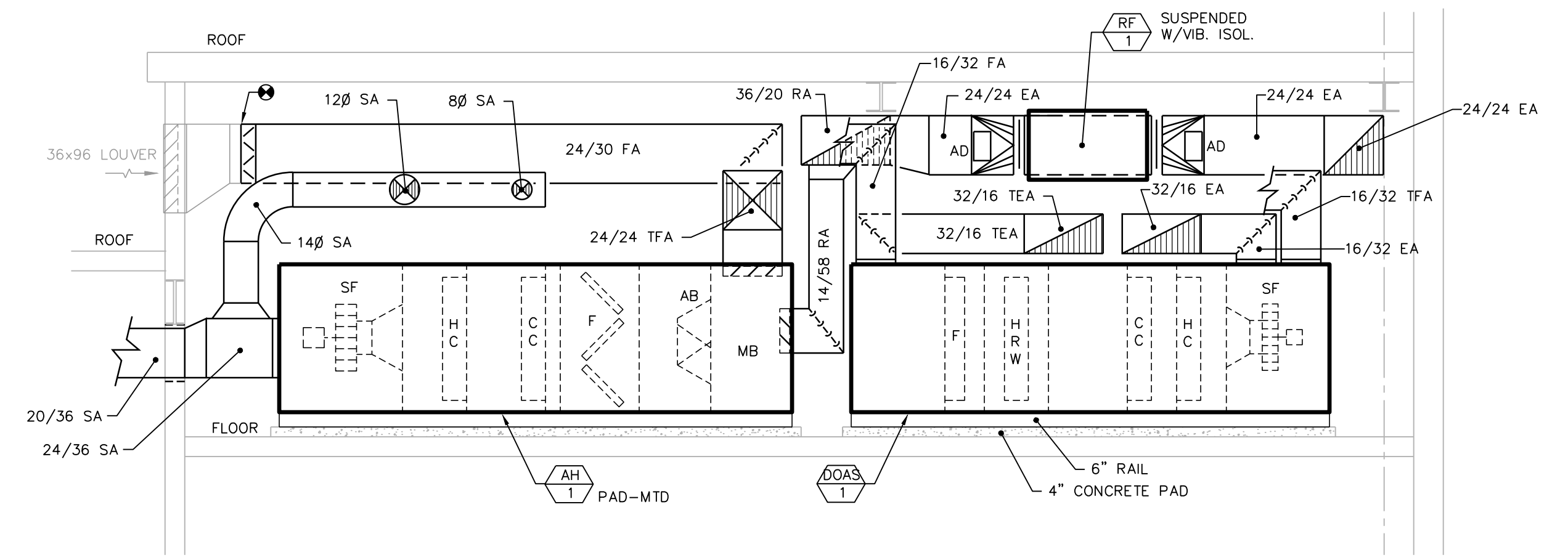
UNIT E - HVAC PLANS

PROJECT #: H1620
SHEET NUMBER

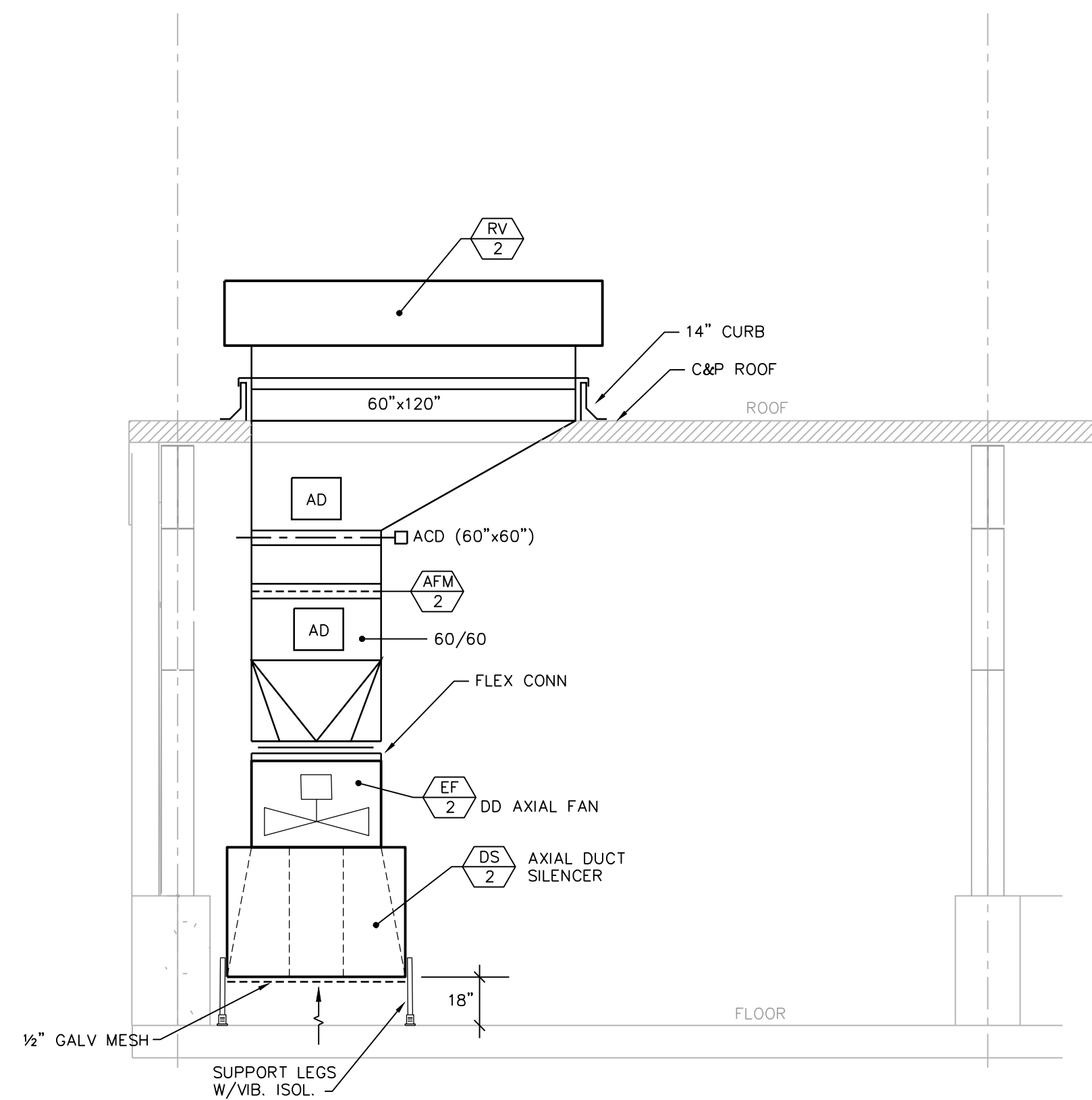
H105



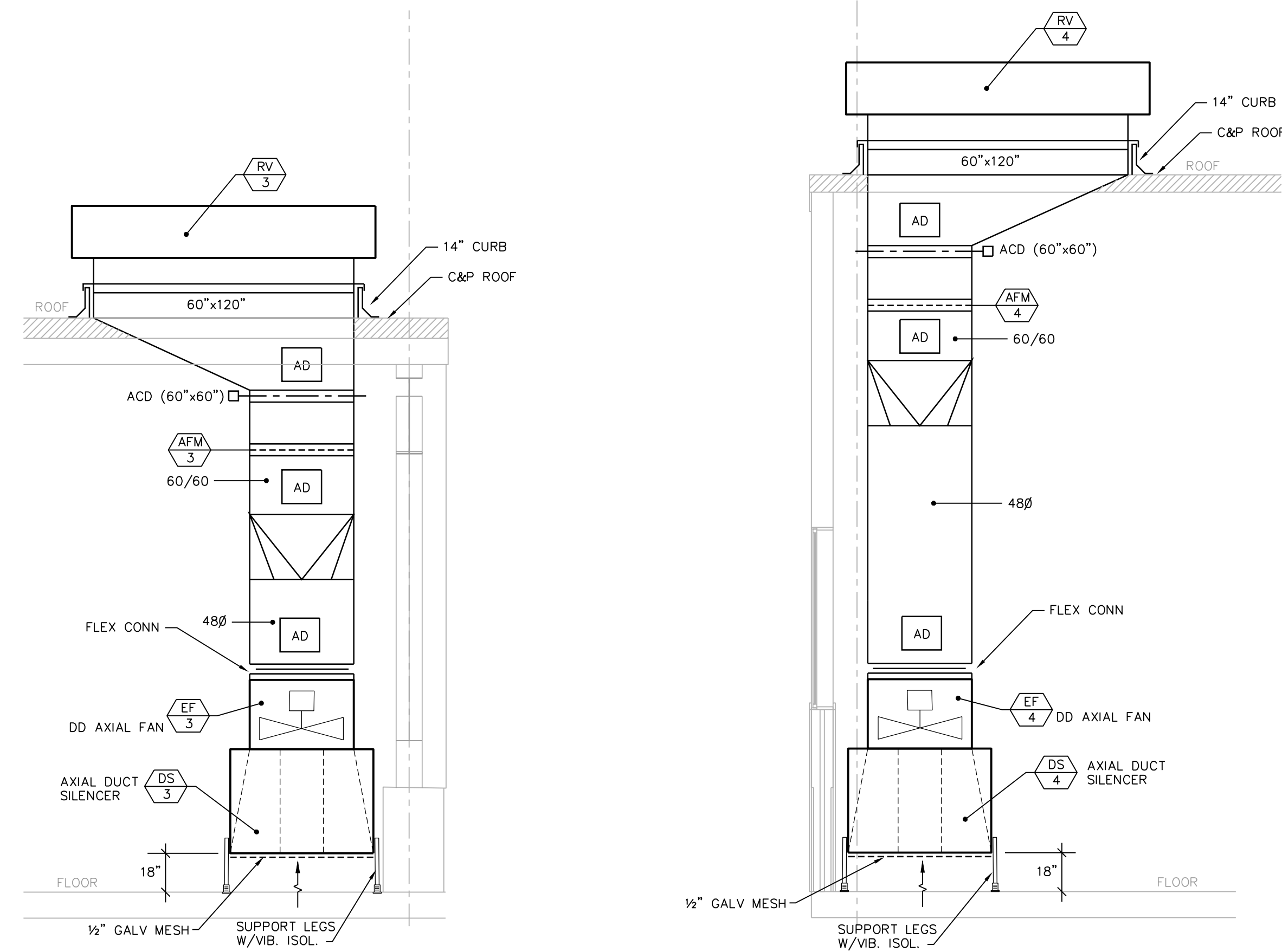
② EF-1 WEST ELEVATION
1/4" = 1'-0"



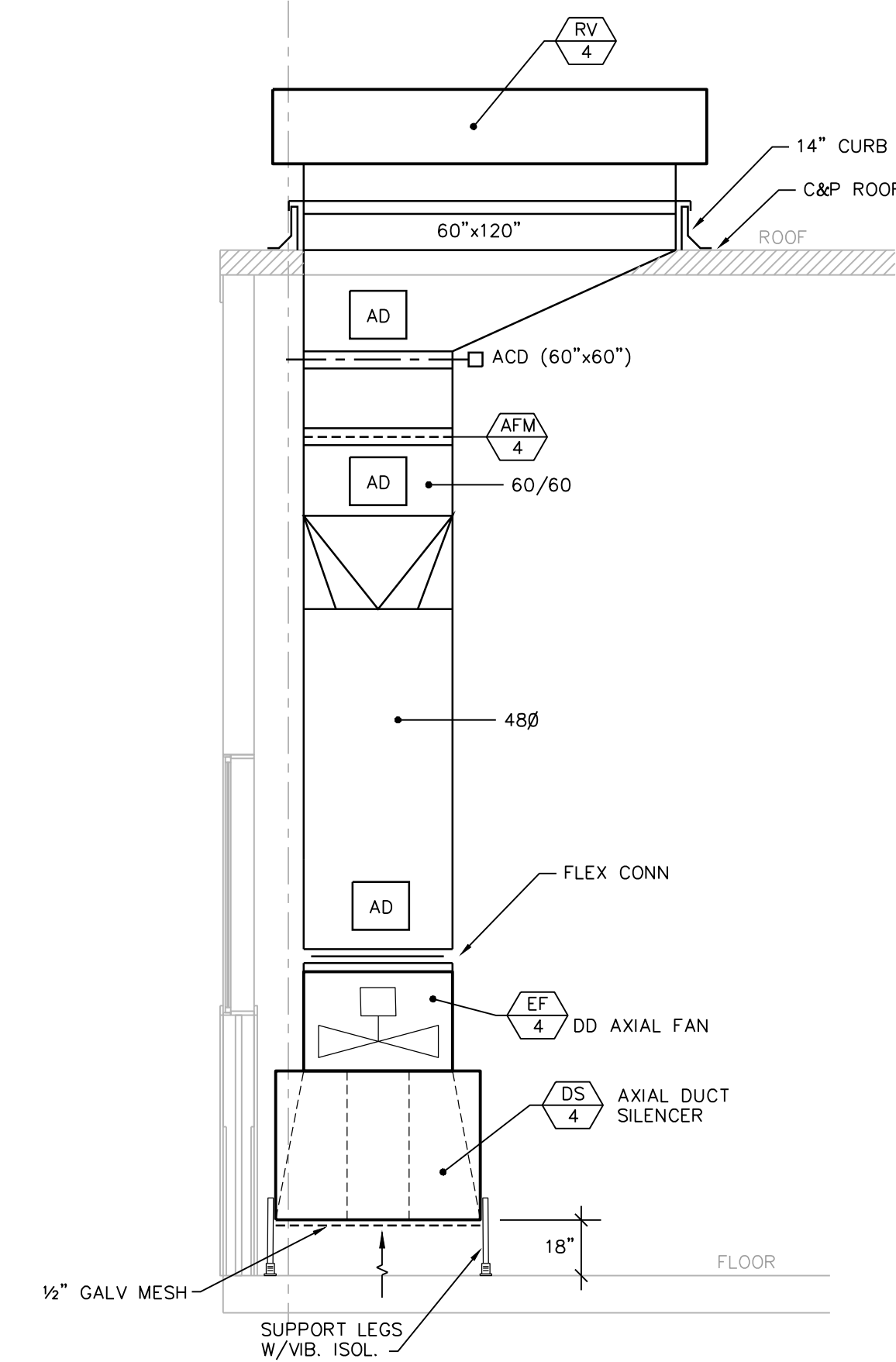
① AIR HANDLER AH-1 / DOAS-1 SOUTH ELEVATION
1/4" = 1'-0"



③ EF-2 WEST ELEVATION
1/4" = 1'-0"



④ EF-3 EAST ELEVATION
1/4" = 1'-0"



⑤ EF-4 WEST ELEVATION
1/4" = 1'-0"



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CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

ISSUANCES:

BID SET 5-15-2019

HVAC
EQUIPMENT
ELEVATIONS

PROJECT #: H1620
SHEET NUMBER

H200

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

TAG	MEGR	MODEL	NECK (WH)	FACE (L)	MOUNTING	SERVICE	CFM	REMARKS
S1	KEES	F-11	6" 8"	48"	1-BAR/CLG	SUPPLY	100-120	①②③④ 2-SLOT 2-WAY SLOT DIFFUSER
S2	KEES	F-22	6" 8"	24"	1-BAR/CLG	SUPPLY	80-125	①②③④ 2-SLOT 2-WAY SLOT DIFFUSER
S3	KEES	F-22	8" 8"	48"	1-BAR/CLG	SUPPLY	140-225	①②③④ 2-SLOT 2-WAY SLOT DIFFUSER
S4	CARNES	SATM 40	6" (9"x9")	24"x24"	1-BAR/CLG	SUPPLY	100	①② 4-WAY ALUM CD
S5	CARNES	SATM 40	8" (9"x9")	24"x24"	1-BAR/CLG	SUPPLY	140	①② 4-WAY ALUM CD
S6	CARNES	RCHAV	48"x48"	-	DUCT	SUPPLY	11400	① INDUSTRIAL SD 2" BL O.C.
R1	CARNES	RNLHM	12"x12"	-	SURFACE/CLG	RETURN	200	①② LOUVERED RG ALUM
R2	CARNES	RNLHM-NT	20"x20"	24"x24"	1-BAR/CLG	RETURN	700-740	①② LOUVERED RG ALUM
R3	CARNES	RNLHM-NT	22"x22"	24"x24"	1-BAR/CLG	RETURN	840-940	①② LOUVERED RG ALUM
T1	CARNES	SPJB-112	8" (10"x10")	-	SURFACE/CLG	TRANSFER	-	① PERF. TG
T2	CARNES	SPJB-224-07D	22"x22"	24"x24"	1-BAR/CLG	TRANSFER	-	①②③ PERF. TG
E1	CARNES	RNLHM	8"x6"	-	SURFACE/CLG	EXHAUST	80-100	①② ALUM ER 45 DEG LOUVERED
E2	CARNES	RNLHM	10"x8"	-	SURFACE/CLG	EXHAUST	150	①② ALUM ER 45 DEG LOUVERED
E3	CARNES	RNLHM	10"x10"	-	SURFACE/CLG	EXHAUST	200	①② ALUM ER 45 DEG LOUVERED
E4	CARNES	RNLHM	12"x12"	-	SURFACE/CLG	EXHAUST	300	①② ALUM ER 45 DEG LOUVERED
E5	CARNES	RNLHM	14"x14"	-	SURFACE/CLG	EXHAUST	400	①② ALUM ER 45 DEG LOUVERED
E6	CARNES	RNLHM	18"x18"	-	SURFACE/CLG	EXHAUST	600	①② ALUM ER 45 DEG LOUVERED

HOT WATER SPECIALTIES SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL NO.	CAPACITY	REMARKS
AIR SEPARATOR - AS-1	HW	SPIROTHERM	VDN-300	3"Ø FLANGED	W/AUTO AIR VENT, DIRT & DRAIN
EXPANSION TANK - ET-1	HW	B & G	B400 LA	106 GAL. TANK (53 GAL. ACCEPT)	① 1"Ø CONN., 24"Øx56"H, ASME 125 PSIG
PRESSURE REDUCING VALVE (PRV)	HW	B & G	B7-12	¾" NPT	12 PSIG SETTING; BRASS BODY
BYPASS CHEMICAL FEEDER (BF-1)	HOT WATER	GRISWOLD	DB-5-SB-CS Z-250P	5 GAL.	② WITH DRAIN V., ISOLATION VALVES (3/4") & BAG FILTER
CALIBRATED BALANCE VALVES	HW	B & G	CB SERIES	SEE PLAN FOR SIZES	

① CHARGE EXP. TANK TO 12 PSIG @ 60 deg. F. WTR. TEMP IN HW LOOP.
② STAINLESS STEEL STRAINER BASKET & 25 MICRON BAG FILTER.

AIR-COOLED CONDENSING UNIT SCHEDULE

GENERAL TAG	CU-1	CU-2
SERVICE	AH-1/CC-1	DOAS-1/CC-2
MANUFACTURER	AON	AON
MODEL NO.	CFA-030-C-A-B-DCOOK	CFA-013-B-A-3-3-DCOOK
NOMINAL TONS CAP.	30	13
AMBIENT TEMP. (F)	95	95
SUCTION TEMP. (F)	45	45
CAPACITY MBH	330	47.2
NO. CAPACITY STEPS	MODULATING + STD ON/OFF	MODULATING + STD ON/OFF
AIR FLOW (CFM)	-	-
NO. COND. FANS	2	2
NO. CIRCUITS	2	2
NO. COMPRESSORS	2	2
REFRIGERANT	R-410A	R-410A
REF. LINE SIZE:	RS 2 Ø 1-3/8" RL 2 Ø 5/8"	2 Ø 7/8" 2 Ø 1/2"
EER (SEER)	11.8	12.6
IPLV (ESTIMATED)	N.A.	N.A.
ELECTRICAL:		
VOLTAGE/PHASE	480/3	480/3
COMPRESSORS FLA	23.2 + 2.3	9.7 + 10.6
COND. FAN FLA	3.2 + 3.2	2.3 + 2.3
FLA	59	25
MCA	65	28
MOCP	80	35

① EXTENDED 5 YEAR WARRANTY ON ALL COMPRESSORS.
② SERVICE VALVES, MOISTURE INDICATORS & LIQ LINE FILTER ON ALL REF. CIRCUITS.
③ AMBIENT HEAD PRESSURE CONTROL: MODULATING CONDENSER FAN SPEED CONTROL - ECM MOTORS.
④ ONE (1) VARIABLE CAPACITY DIGITAL SCROLL COMPRESSOR WITH INTEGRATED CONTROLS (MCC).
⑤ TERMINAL CONTROL BLOCK WITH CONTROL TRANSFORMER, FIELD INSTALLED DDC CONTROLS BY TEMP. CTRL CONTRACTOR WITH ISOLATION RELAYS.
⑥ ANTI-CORROSION PAINT.
⑦ DISCONNECT SWITCH WITH UNIT.

FAN POWERED VARIABLE AIR VOLUME TERMINAL SCHEDULE

GENERAL TAG	FV-1.1	FV-1.2
SERVICE	MEN'S LOCKER & TOILET 139	WOMEN'S LOCKER & TOILET 143
MANUFACTURER	ENVIRO TECH	ENVIRO TECH
MODEL NO.	CRF	CRF
CONNECTION ARR	RH	LH
TYPE	(SERIES)	(SERIES)
SIZE	1218E	0811E
INLET	12"Ø	8"Ø
OUTLET (WH)	22"x121/2"	16"x121/2"
MIN. CFM CLG/HG CFM	380/1260	130/440
MAX. CFM	1260	440
UNIT APD (W.G.) @ MAX	0.26	0.10
ACTUATOR	ELECTRIC	ELECTRIC
CONTROL	DDC	DDC
HW HEATING COIL TYPE	2R/10FPI/2 CKT	2R/10FPI/2 CKT
EAT (deg F) @ HTG CFM	65.5	65.6
LAT (deg F)	97.7	94.3
CAP (MBH) @ HTG CFM	35.0	13.0
FLOW (GPM)	2.6	0.9
EW (F)	140	140
WPD (FT)	1.6	0.3
SOUND (AHR1-885E)	40	25
DIS (NC)	31	20
FAN CFM	1260	440
ESP (W.G.)	0.50	0.50
FILTER @ UNIT	①	①
MOTOR HP	1/2	1/3
FAN WHEEL SIZE/TYPE/CLASS	115/1	115/1
FLA	7.7	5.0
MCA	9.6	6.3
MOCP	15	15

① MINIMUM AIR FLOW/HEATING AIR FLOW
② VAV BOX ACTUATOR AND DDC CONTROLS FURNISHED AND FIELD INSTALLED BY THE TEMP. CONTROL CONTRACTOR (T.C.C.)
③ FAN SPEED CONTROL MOUNTED @ UNIT FOR BALANCING ECM FAN MOTOR.
④ FILTER EXTERNALLY MOUNTED AT UNIT PLENUM INLET W/RACK = 1" TA MERV 8
⑤ DISCONNECT SWITCH & CONTROL TRANSFORMER (50 VA) FACTORY-MOUNTED @ UNIT.

AIR HANDLING UNIT SCHEDULE

GENERAL TAG	AH-1
LOCATION	MECH RM 147
SERVICE	OFFICE AREA
MANUFACTURER	DAIKIN
MODEL/NO.	CAH021GDGM
ARRANGEMENT	HDY/FRTNT
DRIVE SIDE	LEFT
VIBRATION ISOLATION:	INTERNAL
BASE RAIL HEIGHT:	6"
WEIGHT:	3316 lbs
SUPPLY FAN:	②
EXTERNAL S.P. (W.G.)	0.50
TOTAL S.P. (W.G.)	2.47
RPM	1645
MOTOR HP (BHP)	⑤ 10 (8.21)
VOLTAGE/PHASE	208/3
FAN WHEEL SIZE/TYPE/CLASS	24.5" AF/PLENUM FAN/2
SYSTEM TYPE	VAV W/VFD
HW HTG COIL:	⑥⑦ HC-1: 2R/9FPI (5WH1102C)
HTG CFM	5600
APD (W.G.)	0.20
EV (FPM)	540 (24"x20"x2)
WATER:	
EW/LWT (DEG F)	140/119.7
WPD (FT)	0.20
GPM	13.8
TOTAL CAP (MBH)	14.3
COOLING COIL:	⑥⑦
AIR:	CC: 6R/11FPI (5EJ09068)
EAT (db/wb °F)	79.5/67.6
LAT (db/wb °F)	6.3
APD (W.G.)	0.71
EV (FPM)	470 (24"x23"x2)
WATER:	
EW/LWT (DEG F)	153.9
SENSIBLE CAP (MBH)	95.6
SUCTION TEMP. (F)	44
REFRIGERANT	R-410a
ENERGY RECOVERY:	ECM-486 ENTHALPIC WHEEL (48"Ø)
AIR BLENDER:	KEES 2X STATIC MIXER
FACE AREA	7.9
EV (FPM)	1184
APD (W.G.)	0.30
FILTER BOX:	④ HORIZONTAL SIDE ACCESS
TYPE	HORIZONTAL SIDE ACCESS
FILTER MEDIA	4" TA 30% (MERV 13)
FILTER APD - CLEAN (W.G.)	③ 0.10 (MEAN = 0.55)
SIZES (HxW)	(6)24"x24" & (3) 24"x20"
NET AREA (S.F.)	32.2
EV (FPM)	292
MIXING BOX:	⑧ PARALLEL BLADE
ARRANGEMENT	DUAL TOP & END INLETS
INLET SIZE FA	(TOP)-24"x30"(R) & 24"x24"(L)
INLET SIZE RA	(END)-16"x58"
EV (FPM) - FA	1160
APD (W.G.) - FA	0.09

① DOUBLE WALL CASING/PAINT EXTERIOR FINISH.
② BEARINGS = L50 (500K).
③ AIR PRESSURE DROP BASED ON CLEAN FILTER
④ PROVIDE INTEGRAL FILTER AIR PRESSURE GAUGE (MAGNEHELIC 0-1").
⑤ MOTORS SHALL BE PREMIUM EFFICIENCY VFD COMPATIBLE W/SPLIT SHAFT GROUNDING COUPLER.
⑥ STAINLESS STEEL DRAIN PAN.
⑦ COIL CABINET W/ACCESS DOOR.
⑧ MIXING BOX CABINET W/ACCESS DOOR.
⑨ TEMPERED MINIMUM FRESH AIR SUPPLIED BY DOAS-1.
⑩ SPLIT FA DAMPER SHAFTS FOR INDEPENDANT CONTROL OF DUAL INLETS.

DEDICATED OUTSIDE AIR SYSTEM

GENERAL TAG	DOAS-1
LOCATION	MECHANICAL RM 147
SERVICE	AH-1
MANUFACTURER	DAIKIN
MODEL/NO.	CAH090GDGM
ARRANGEMENT	SIDE x SIDE ERV/HOT
DRIVE SIDE	RIGHT & LEFT
VIBRATION ISOLATION:	INTERNAL
BASE RAIL HEIGHT:	6"
WEIGHT:	4135 lbs
SUPPLY FAN:	②
CFM	3600
EXTERNAL S.P. (W.G.)	0.50
TOTAL S.P. (W.G.)	2.47
RPM	2277
MOTOR HP (BHP)	⑤ 3 (2.27)
VOLTAGE/PHASE	208/3
FAN WHEEL SIZE/TYPE/CLASS	15.75" AF/PLENUM FAN/2
SYSTEM TYPE	CV W/VFD
INLET FA	TOP 32"x16"
OUTLET TFA	TOP 32"x16"
HW HTG COIL:	⑥⑦ HC: 2R/9FPI (5WH0902B2)
AIR: HTG CFM	3600
EAT	35.0
LAT	70.5
APD (W.G.)	0.20
EV (FPM)	540 (24"x20"x2)
WATER:	
EW/LWT (DEG F)	140/119.7
WPD (FT)	0.20
GPM	13.8
TOTAL CAP (MBH)	13.8
COOLING COIL:	⑥⑦
AIR:	CC: 6R/11FPI (5EJ09068)
EAT (db/wb °F)	79.5/67.6
LAT (db/wb °F)	55.2/53.8
APD (W.G.)	0.71
EV (FPM)	470 (24"x23"x2)
WATER:	
EW/LWT (DEG F)	153.9
SENSIBLE CAP (MBH)	95.6
SUCTION TEMP. (F)	44
REFRIGERANT	R-410a
ENERGY RECOVERY:	ECM-486 ENTHALPIC WHEEL (48"Ø)
AIR BLENDER:	KEES 2X STATIC MIXER
FACE AREA	7.9
EV (FPM)	1184
APD (W.G.)	0.30
FILTER BOX:	④ HORIZONTAL SIDE ACCESS
TYPE	HORIZONTAL SIDE ACCESS
FILTER MEDIA	4" TA 30% (MERV 13)
FILTER APD - CLEAN (W.G.)	③ 0.10 (MEAN = 0.55)
SIZES (HxW)	(6)24"x24" & (3) 24"x20"
NET AREA (S.F.)	32.2
EV (FPM)	292
MIXING BOX:	⑧ PARALLEL BLADE
ARRANGEMENT	DUAL TOP & END INLETS
INLET SIZE FA	(TOP)-24"x30"(R) & 24"x24"(L)
INLET SIZE RA	(END)-16"x58"
EV (FPM) - FA	1160
APD (W.G.) - FA	0.09

① DOUBLE WALL CASING/PAINT EXTERIOR FINISH.
② BEARINGS = L50 (500K).
③ AIR PRESSURE DROP BASED ON CLEAN FILTER
④ PROVIDE INTEGRAL FILTER AIR PRESSURE GAUGE (MAGNEHELIC 0-1").
⑤ MOTORS SHALL BE PREMIUM EFFICIENCY VFD COMPATIBLE W/SPLIT SHAFT GROUNDING COUPLER.
⑥ STAINLESS STEEL DRAIN PAN.
⑦ COIL CABINET W/ACCESS DOOR.
⑧ MIXING BOX CABINET W/ACCESS DOOR.
⑨ TEMPERED MINIMUM FRESH AIR SUPPLIED BY DOAS-1.
⑩ SPLIT FA DAMPER SHAFTS FOR INDEPENDANT CONTROL OF DUAL INLETS.

RADIANT PANEL HEATER SCHEDULE

GENERAL TAG	RP-1	RP-2	RP-3	RP-4	RP-5	RP-6	RP-7	RP-8	RP-9	RP-10	RP-11	RP-12	RP-13	RP-14
SERVICE	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL
MANUFACTURER	R3F-10	RF-4	RF-4	R3F-10	RF-4	RF-4	RF-4	RF-4	R3F-10	RF-4	R3F-10	RF-4	RF-4	R3F-10
LOCATION	VESTIBULE 126	OFFICE E 125	OFFICE D 124	ENTRY HALL 119	OFFICE C 118	CONFERENCE 117	OFFICE B 116	OFFICE A 115	PARKS LUNCH RM 111	PARKS LUNCH RM 111	N VESTIBULE 129	STREETS LUNCH RM 112	STREETS LUNCH RM 112	N. CORRIDOR
TYPE	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR	HORIZONTAL PANEL RADIATOR
MOUNTING	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL	SURFACE/WALL
CONNECTIONS	SAME END	SAME END	SAME END	SAME END	SAME END	OPPOSITE END	OPPOSITE END	SAME END	SAME END	SAME END	SAME END	SAME END	SAME END	SAME END
CAPACITY (MBH)	7.6	3.2	2.7	7.6	3.6	2.3	5.4	5.4	7.6	7.2	5.4	7.6	7.6	7.6
GPM	0.8	0.4	0.3	0.8	0.4	0.6	0.6	0.6	0.8	0.7	0.6	0.8	0.8	0.8
WPD (FT)	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.3	0.3	0.1	0.1
FACE DEPTH	5"	2"	2"	5"	2"	2"	2"	2"	2"	2"	2"	2"	2"	5"
LENGTH	4'-0"	7'-0"	6'-0"	4'-0"	8'-0"	8'-0" + 5'-0"	5'-0"	3'-0" + 9'-0"	8'-0" + 4'-0"	8'-0" + 4'-0"	4'-0"	2 Ø 8'-0"	8' x 4'	4"
HEIGHT	29"	119"	119"	29"	119"	119"	119"	119"	29"	119"	29"	119"	119"	29"
REMARKS:	①②	①②	①②	①②	①②	①②	①②	①②	①②	①②	①②	①②	①②	①②

AWT = 130° F (FACTOR = 0.33) EAT = 65° F
① PROVIDE CENTER TRIM AND END TRIM COVERS AS REQUIRED PER DRAWING LAYOUT.
② FINAL FINISH COLOR = RUNTAL WHITE.
NOTE: PANELS MOUNTED 3" AFF, UNLESS NOTED OTHERWISE ON DRAWINGS.

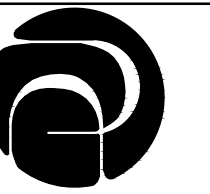
PUMP SCHEDULE

TAG	P-1&2	P-3
MANUFACTURER	B&G	B & G
MODEL NO.	ECOCIRC XL95-160	PL-30
TYPE	INLINE	INLINE
LOCATION	MECH./ELEC. RM. 131B	MECH. RM. 147
SERVICE	HW SYSTEM SECONDARY PUMP	HEATING COIL
GPM	60	15
TDH (FT)	38	10
BHP (WATTS)	1.1 (50-1250)	N.A.
EFFICIENCY (%)	N.A.	N.A.
SUCTION I.D.	1-1/2"	1 1/4"Ø
OUTLET I.D.	1-1/2"	1 1/4"Ø
MOTOR:		
HORSEPOWER	2	1/12
VOLTAGE/PHASE	208/3	115/1
FLA	4.4	1.4

① DOUBLE WALL CASING/PAINT EXTERIOR FINISH.
② BEARINGS = L50 (500K) WITH DUAL BELTS.
③ AIR PRESSURE DROP BASED ON MEAN FILTER
④ PROVIDE INTEGRAL FILTER AIR PRESSURE GAUGE (MAGNEHELIC 0-1"). TYPICAL @ SUPPLY & EXHAUST SECTIONS.
⑤ MOTORS SHALL BE PREMIUM EFFICIENCY VFD COMPATIBLE W/SPLIT SHAFT GROUNDING COUPLER.
⑥ STAINLESS STEEL DRAIN PAN.
⑦ COIL CABINET W/ACCESS DOOR.
⑧ MIXING BOX CABINET W/ACCESS DOOR.
⑨ PROVIDE ACCESS PLENUM SECTION UPSTREAM & DOWNSTREAM OF WHEEL SECTIONS WITH ACCESS DOOR (SUPPLY & EXHAUST).
⑩ WHEEL DRIVE-VFD 1/2 HP 5.9A @ 208V/1Ø

HVAC SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—HWS—	HOT WATER SUPPLY PIPING	—SQUARE—	SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER-HORIZONTAL MOUNT
—HWR—	HOT WATER RETURN PIPING	—SQUARE—	SQUARE/RECTANGULAR RETURN/EXHAUST REGISTER OR GRILLE-HORIZONTAL MOUNT
—C—	CONDENSATE PIPING	—SUPPLY—	SUPPLY REGISTER OR GRILLE VERT. MOUNT
—R—	REFRIGERANT SUCTION PIPING	—RETURN—	RETURN/EXHAUST REGISTER OR GRILLE VERT. MOUNT
—RL—	REFRIGERANT LIQUID PIPING	—SLOT—	SLOT SUPPLY DIFFUSER
—O—	PIPE UP	—UP—	VERTICAL RETURN/EXHAUST DUCT UP
—D—	PIPE DOWN	—DOWN—	VERTICAL SUPPLY DUCT DOWN
—G—	GATE VALVE	—RETURN—	VERTICAL RETURN/EXHAUST DUCT DOWN
—GLOBE—	GLOBE VALVE	—VOLUME—	VOLUME DAMPER
—BUTTERFLY—	BUTTERFLY VALVE	—SMOKE—	SMOKE DAMPER
—ANGLE—	ANGLE VALVE	—FIRE—	FIRE DAMPER W/ACCESS PANEL
—PRESSURE—	PRESSURE RELIEF VALVE	—MOTORIZED—	MOTORIZED BACKDRAFT DAMPER
—DRAIN—	DRAIN VALVE	—GRAVITY—	GRAVITY BACKDRAFT DAMPER
—SWING—	SWING OR LIFT CHECK VALVE	—BALANCE—	AUTOMATIC CONTROL DAMPER
—SPRING—	SPRING LOADED CHECK VALVE	—FLEXIBLE—	FLEXIBLE CONNECTION
—PRESSURE—	PRESSURE REDUCING VALVE	—ROUND—	ROUND/FLEXIBLE DUCT
—THREE—	THREE WAY TEMP CONTROL VALVE	—FLOW—	FLOW METER
—TRIPLE—	TRIPLE DUTY VALVE	—INLINE—	INLINE STRAINER
—BALANCE—	BALANCE VALVE	—UNION—	UNION
—CALIBRATED—	CALIBRATED BALANCING VALVE	—FLANGE—	FLANGE
—GAUGE—	GAUGE VALVE	—END—	END CAP OR BLIND FLANGE
—AUTOMATIC—	AUTOMATIC CONTROL VALVE	—THERMOMETER—	THERMOMETER
—FLOW—	FLOW METER	—PRESSURE—	PRESSURE GAUGE
—INLINE—	INLINE STRAINER	—WATER—	DIFFUSER/REGISTER/GRILLE
—UNION—	UNION	—ANCHOR—	ANCHOR
—FLANGE—	FLANGE	—T & P—	T & P TEST WELL
—END—	END CAP OR BLIND FLANGE	—A—	A-AUTOMATIC AIR VENT
—THERMOMETER—	THERMOMETER	—M—	M-MANUAL AIR VENT
—PRESSURE—	PRESSURE GAUGE	—REDUCER—	REDUCER, CONCENTRIC
—DIFFUSER—	DIFFUSER/REGISTER/GRILLE	—REDUCER—	REDUCER, ECCENTRIC
—ANCHOR—	ANCHOR	—IMMERSION—	IMMERSION WELL
—T & P—	T & P TEST WELL	—ACD—	AUTOMATIC CONTROL DAMPER
—A—	A-AUTOMATIC AIR VENT	—EA—	EXHAUST AIR
—M—	M-MANUAL AIR VENT	—FA—	FRESH AIR
—REDUCER—	REDUCER, CONCENTRIC	—RA—	RETURN AIR
—REDUCER—	REDUCER, ECCENTRIC	—SA—	SUPPLY AIR
—IMMERSION—	IMMERSION WELL	—TSA—	TEMPERED SUPPLY AIR
		—TEA—	TEMPERED EXHAUST AIR
		—AFF—	ABOVE FINISHED FLOOR
		—BOD—	BOTTOM OF DUCT



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ISSUANCES:
BID SET 5-15-2019

HVAC
SCHEDULES

PROJECT #: H1620
SHEET NUMBER

H301

DUCT SILENCER																	
TAG	MEGR	MODEL	TYPE	FACE DIM. WH (IN)	LENGTH (N)	AIR FLOW CFM	SILENCER APD "W.C.	VELOCITY FPM	DYNAMIC INSERTION LOSS db @ OCTAVE BAND								REMARKS
									63	125	250	500	1000	2000	4000	8000	
DS-M1	VIBRO-ACOUSTICS	RV-HV-F5	RD	108"x60"	60"	57000	0.09	+1267	3	6	11	23	24	19	13	9	MAU-1 DISCHARGE EXHAUST INLET EF-1 ①②③
DS-1	VIBRO-ACOUSTICS	25-AC-20	AC	25"ø	25"	4200	0.02	-1467	1	5	10	17	19	14	11	9	EXHAUST INLET EF-2 ①②③
DS-2	VIBRO-ACOUSTICS	48-AC-20	AC	48"ø	48"	20000	0.02	-1592	3	4	11	18	19	14	11	9	EXHAUST INLET EF-3 ①②③
DS-3	VIBRO-ACOUSTICS	48-AC-20	AC	48"ø	48"	20000	0.02	-1592	3	4	11	18	19	14	11	9	EXHAUST INLET EF-3 ①②③
DS-4	VIBRO-ACOUSTICS	48-AC-20	AC	48"ø	48"	20000	0.02	-1592	3	4	11	18	19	14	11	9	EXHAUST INLET EF-4 ①②③

DYNAMIC INSERTION LOSS PER ASTM E477-06A
RD = RECTANGULAR T-RED = RECTANGULAR T-ELBOW

① 18" FLOOR MOUNTING LEGS WITH VIBRATION ISOLATION SUPPORTS PER SPEC SECTION 23 20 00 VIBRATION ISOLATION.
② 1/2" MESH GALVANIZED BIRD SCREEN MOUNTED AT INLET.
③ FLANGED OUTLET CONNECTION.

AIR FLOW METER SCHEDULE						
TAG	AFM-M1	AFM-1	AFM-2	AFM-3	AFM-4	
MANUFACTURER	AIR MONITOR CORP	AIR MONITOR CORP	AIR MONITOR CORP	AIR MONITOR CORP	AIR MONITOR CORP	
MODEL NO.	ELECTRA-FLO	ELECTRA-FLO	ELECTRA-FLO	ELECTRA-FLO	ELECTRA-FLO	
SERVICE	MAU-1	EF-1	EF-2	EF-3	EF-4	
TYPE	THERMAL DISP. AIRFLOW TRAVERSE STA	THERMAL DISP. AIRFLOW TRAVERSE STA	THERMAL DISP. AIRFLOW TRAVERSE STA	THERMAL DISP. AIRFLOW TRAVERSE STA	THERMAL DISP. AIRFLOW TRAVERSE STA	
SIZE: WxH	96"x64"	30"x24"	60"x60"	60"x60"	60"x60"	
AIR FLOW CAP. (CFM)	57,000	4,200	20,000	20,000	20,000	
FACE VELOCITY (FPM)	1336	840	800	800	800	
APD ("W.C.)	0.009	0.004	0.004	0.004	0.004	
METER:						
#PROBES	5	2	4	4	4	
FLOW METER VOLTAGE	24VDC	24VDC	24VDC	24VDC	24VDC	
TRANSMITTER MODEL NO.	ELECTRA-FLO G5	ELECTRA-FLO G5	ELECTRA-FLO G5	ELECTRA-FLO G5	ELECTRA-FLO G5	
REMARKS:						

EXHAUST FAN SCHEDULE						
TAG	RF-1	EF-1	EF-2	EF-3	EF-4	
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	
MODEL NO.	VADS-24F14-29-B15	VAD-24F14-29-C10	VAD-48F21-04-C30	VAD-48F21-04-C30	VAD-48F21-04-C30	
AREA SERVED	AH-1 ECON RELIEF FAN	GARAGE EXHAUST	GARAGE EXHAUST	GARAGE EXHAUST	GARAGE EXHAUST	
CFM	5,200	4,200	20,000	20,000	20,000	
ESP "WG	1"	0.50"	0.50"	0.50"	0.50"	
RPM	1170	870	870	870	870	
MOUNTING	SPRING VIB. HANGERS	SPRING VIB. SUPPORTS	SPRING VIB. SUPPORTS	SPRING VIB. SUPPORTS	SPRING VIB. SUPPORTS	
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	
ARRANGEMENT	HORIZ. INLINE	VERTICAL INLINE	VERTICAL INLINE	VERTICAL INLINE	VERTICAL INLINE	
SYSTEM TYPE	CV W/VFD	CV W/VFD	CV W/VFD	CV W/VFD	CV W/VFD	
SONES (INLET/RADIATED)	64 dBA/-	63 dBA/-	78 dBA/-	78 dBA/-	78 dBA/-	
ELECTRICAL:						
MOTOR HP (BHP)	1-1/2 (1.31)	1 (0.53)	3 (2.68)	3 (2.68)	3 (2.68)	
FAN F.L.A.	6.9	2.1	4.8	4.8	4.8	
VOLTAGE/PHASE	208/3	460/3	460/3	460/3	460/3	
CONTROL	ECONOMIZER BY T.C.C.	GARAGE VENT BY T.C.C.	GARAGE VENT BY T.C.C.	GARAGE VENT BY T.C.C.	GARAGE VENT BY T.C.C.	
WEIGHT	600 lbs	375 lbs	1200 lbs	1200 lbs	1200 lbs	
REMARKS:	INLINE VANE AXIAL EF ①②③④⑤	INLINE VANE ①②③④⑤	AXIAL EF ①②③④⑤	AXIAL EF ①②③④⑤	AXIAL EF ①②③④⑤	

NOTE: ALL EF LINE VOLTAGE CONTROLS WIRED BY E.C.

① CONTROLLED BY REMOTE VFD.
② MOTORS SHALL BE PREMIUM EFFICIENCY VFD COMPATIBLE W/SPLIT SHAFT GROUNDING COUPLER.
③ SPRING/NEOPRENE VIBRATION ISOLATION SUPPORTS.
④ COMPANION FLANGES @ INLET & OUTLET.
⑤ EXTENDED MOTOR LEADS TO EXT. JCT BOX.

LOUVER SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	METAL	LOUVER DEPTH x W x HT	FREE AREA S.F.	CFM	APD "W.C.	SERVICE	REMARKS
L-1	GREENHECK	EDD-601	STAT.	EXT. ALUM.	6" x 180" x 144"	103.4	57,000	0.05	FRESH AIR	①②

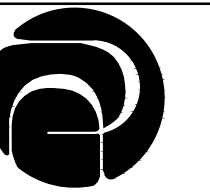
① BIRD SCREEN - ALUM.
② 50% KYNAR 500 FINISH COAT; FINAL COLOR SELECTION BY ARCHITECT.

ROOF VENT SCHEDULE											
TAG	MANUFACTURER	MODEL NO.	TYPE	METAL	THROAT SIZE	AREA SF	CFM	APD ("W.G.)	TYPE	DAMPER	REMARKS
RV-1	GREENHECK	FGR	GRAVITY RELIEF HOOD	ALUM.	24"x48"x19"HT	8.0	4200	0.038	EXHAUST	NO	①② EXHAUST EF-1
RV-2	GREENHECK	FGR	GRAVITY RELIEF HOOD	ALUM.	60"x120"x36"HT	50.0	20000	0.022	EXHAUST	NO	①② EXHAUST EF-2
RV-3	GREENHECK	FGR	GRAVITY RELIEF HOOD	ALUM.	60"x120"x36"HT	50.0	20000	0.022	EXHAUST	NO	①② EXHAUST EF-3
RV-4	GREENHECK	FGR	GRAVITY RELIEF HOOD	ALUM.	60"x120"x36"HT	50.0	20000	0.022	EXHAUST	NO	①② EXHAUST EF-4

① 14" HT SLOPED (1/2":12) ROOF CURB-INSULATED.
② 1/2" CLOSED CELL HOOD INSULATION-UNDERSIDE.

MAKE-UP AIR HANDLING UNIT SCHEDULE	
GENERAL:	MAU-1
TAG	MAU-1
MANUFACTURER	GREENHECK
MODEL NO.	TSU-230-H50
TYPE	INDOOR DIRECT-FIRED
ARRANGEMENT	HORIZONTAL - RIGHT
SYSTEM TYPE	VARIABLE VOLUME
FAN CFM	57000
ESP "WG	1.00"
TSP "WG	1.86"
RPM	570
MIN. FA CFM (%)	100%
PRESSURE:	
GAS "WG	14"
VIBRATION ISOLATION	FAN - SPRING ISOLATION
INSULATED CABINET	DOUBLE-WALL; 2" 3#
DISCONNECT	NON-FUSED VFD @ UMT
ROUNNET:	
INPUT (MBH)	5600
OUTPUT (MBH)	5152
EAT DB (F)	-15
LAT DB (F)	68.7
FILTER SECTION:	
TYPE	4" 30% MERV 8
QUANTITY AND SIZES	ANGULAR FILTER SECTION
FILTER FRAME	EXTERNAL
ELECTRICAL:	
HP (BHP)	50 (43.0)
VOLTAGE/PHASE	460/3
FAN FLA	65
MIN. CKT. AMPS	82.1
MOCP	125
ACCESSORIES:	WT = 4530 LBS ①②③④⑤⑥⑦

① ENAMEL PAINT FINISH.
② INDOOR FRESH AIR FILTER SECTION.
③ DOUBLE WALL CONSTRUCTION.
④ SUPPLY FAN VIBRATION ISOLATION.
⑤ VFD FACTORY INSTALLED PER SPECIFICATION SECTION 23 89 50 REQUIREMENTS.
⑥ PREMIUM EFFICIENCY MOTOR - VFD COMPATIBLE WITH GROUNDING BUSHINGS.
⑦ SMOKE DETECTION SHUTDOWN BY FIRE ALARM SYSTEM RELAY.



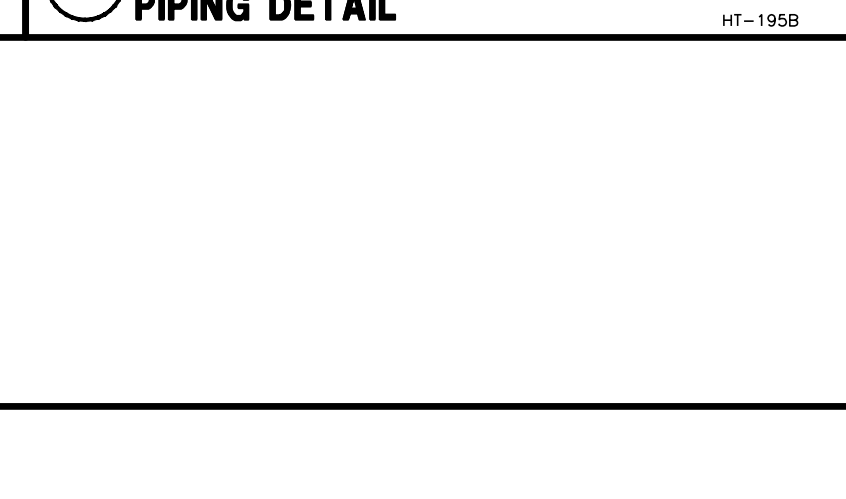
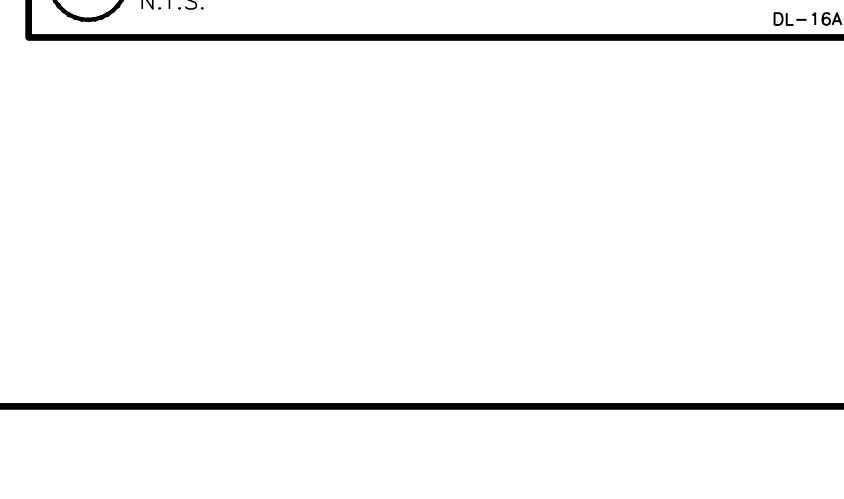
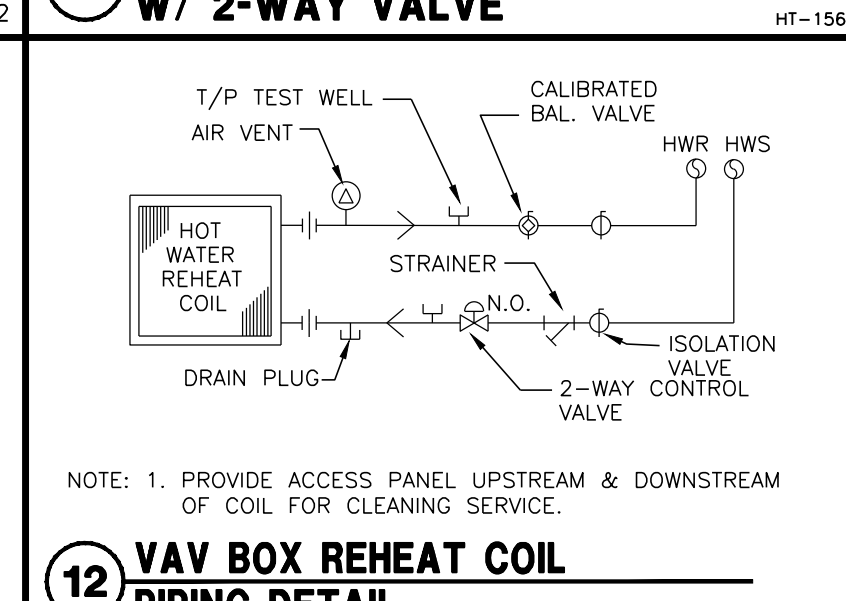
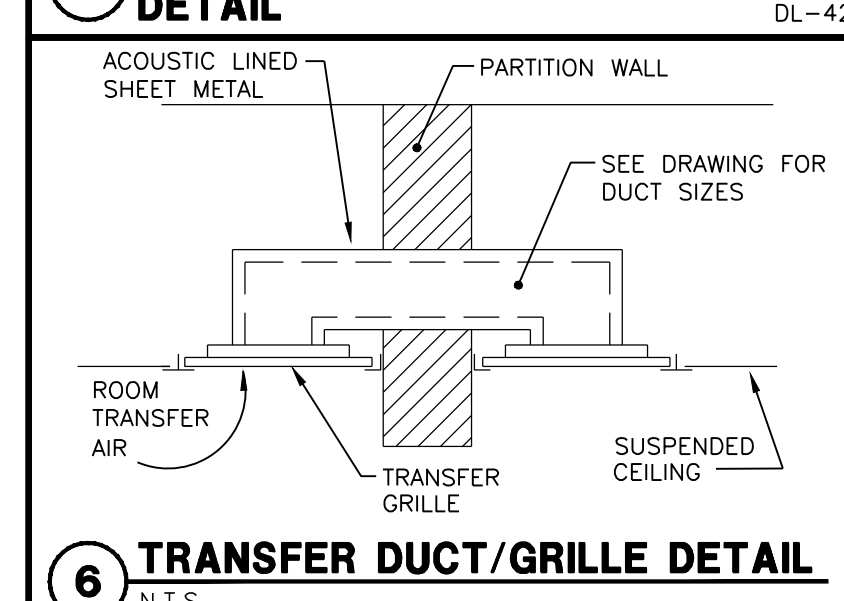
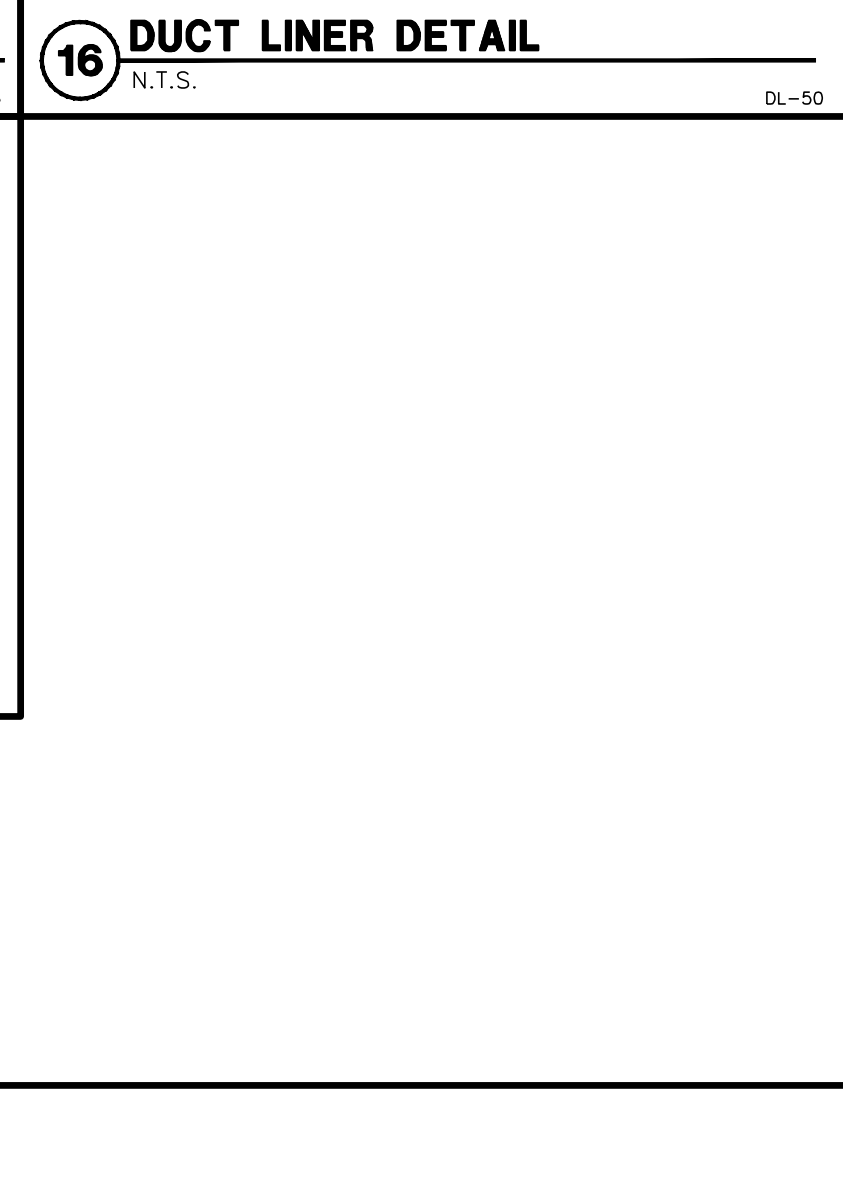
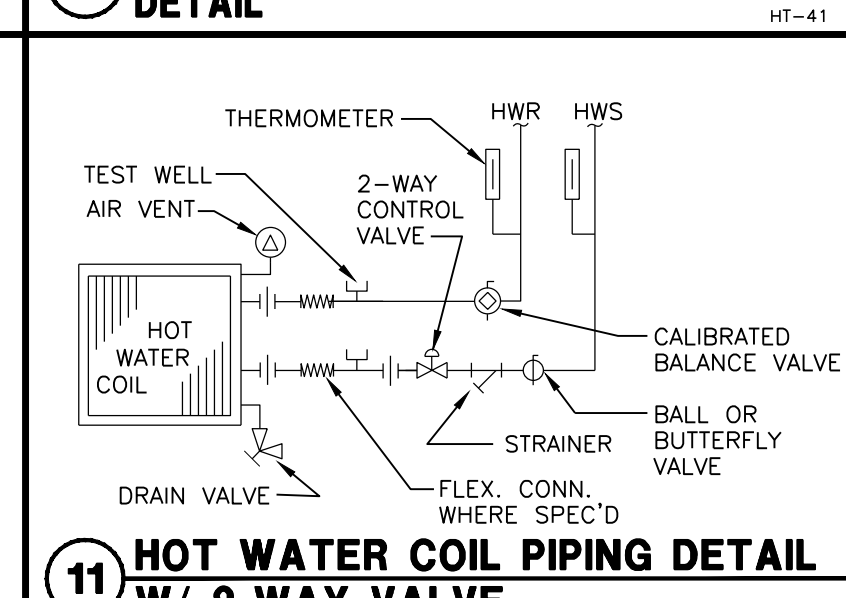
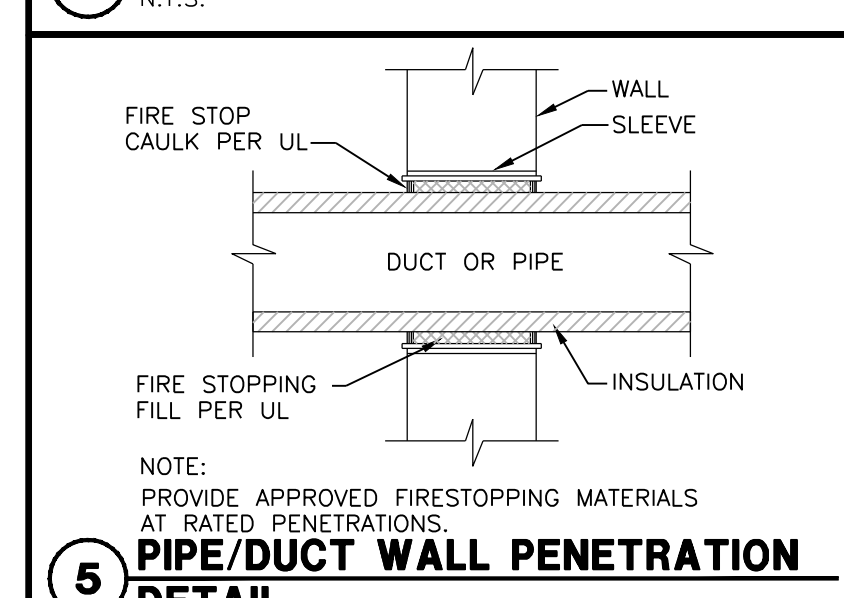
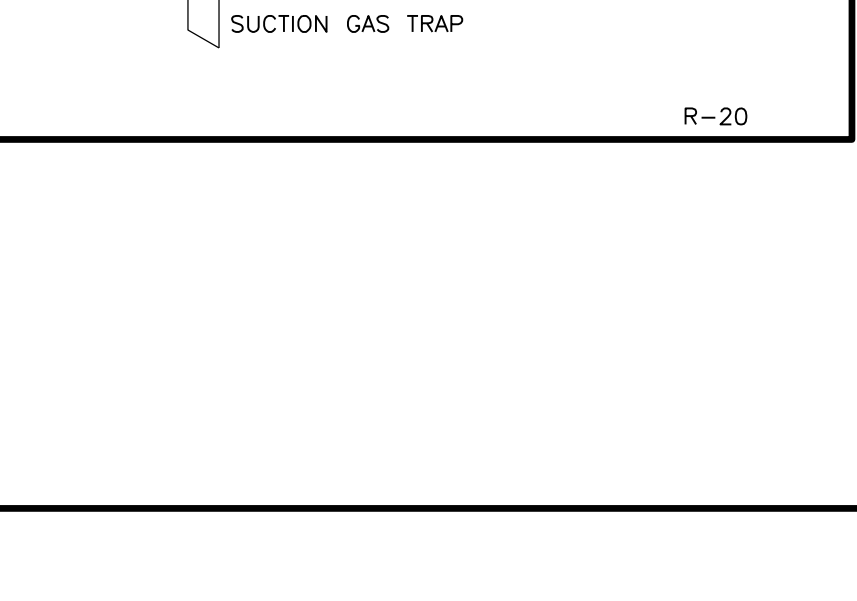
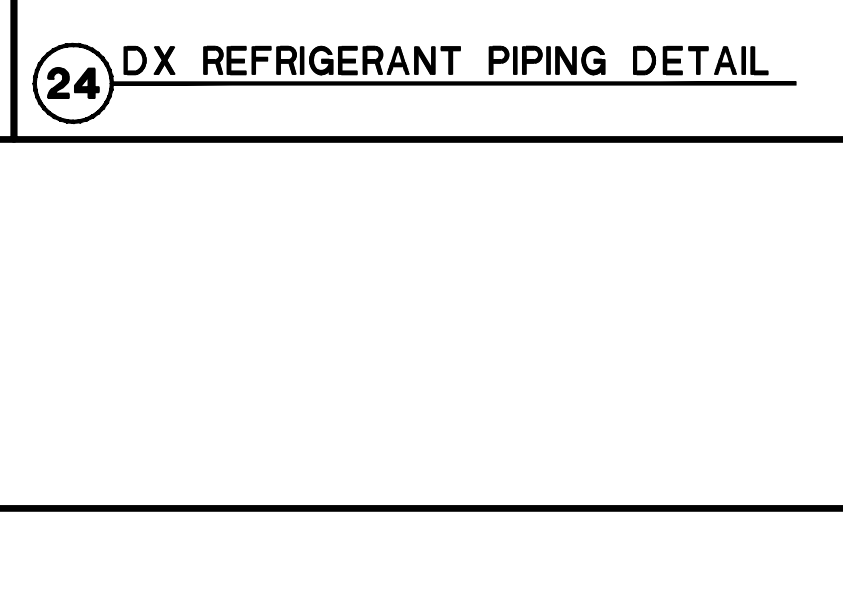
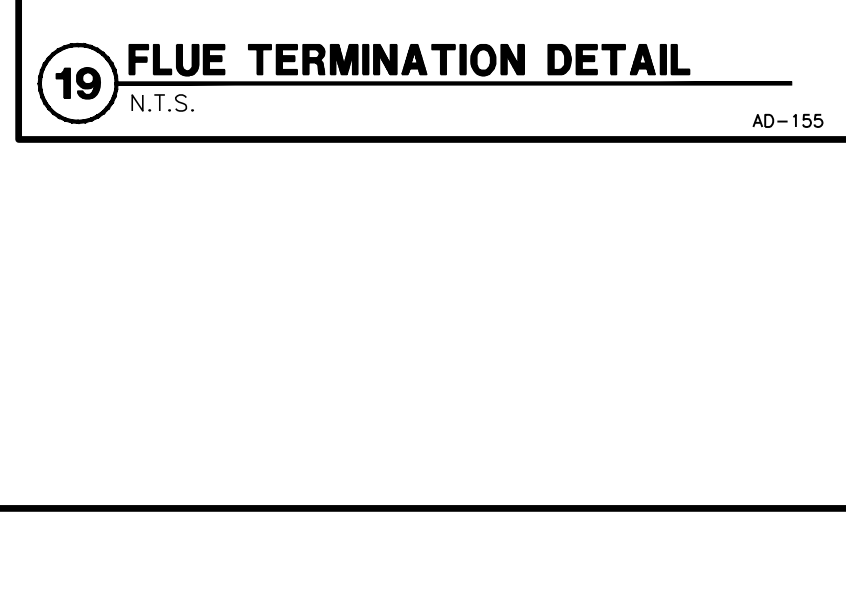
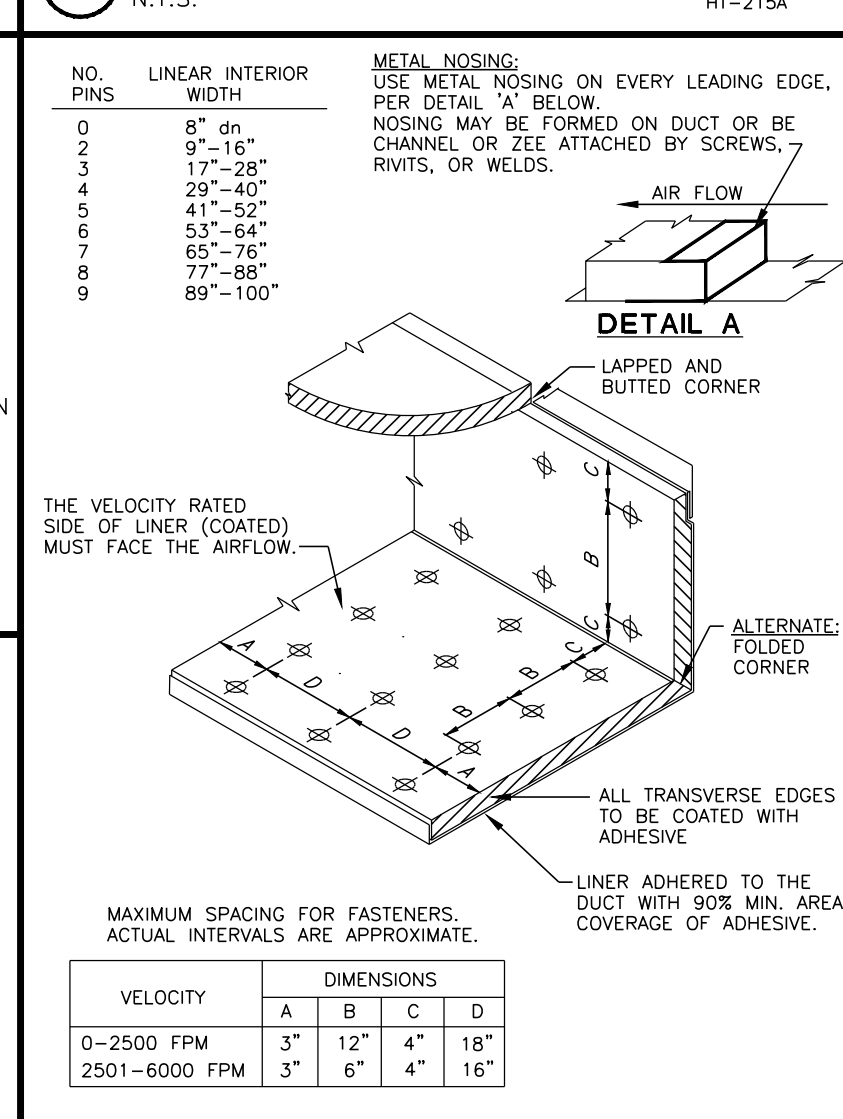
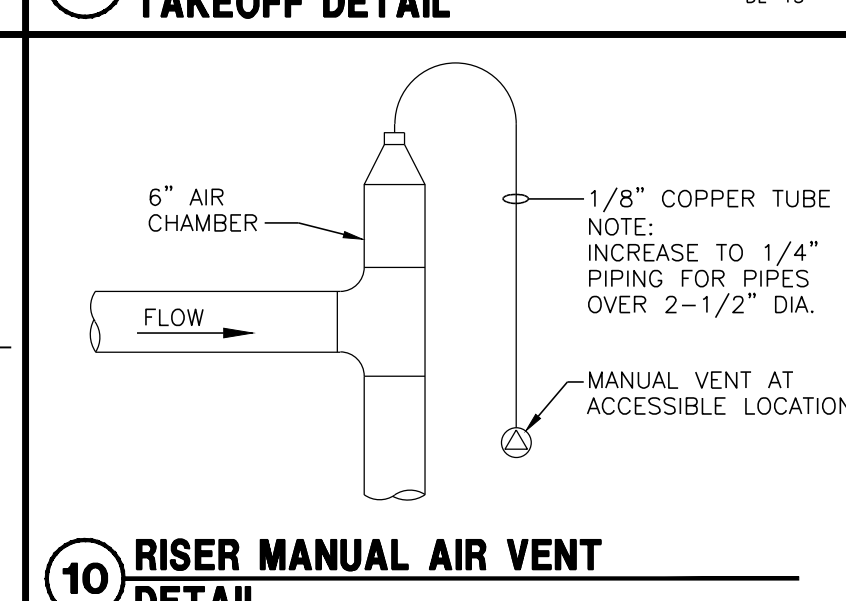
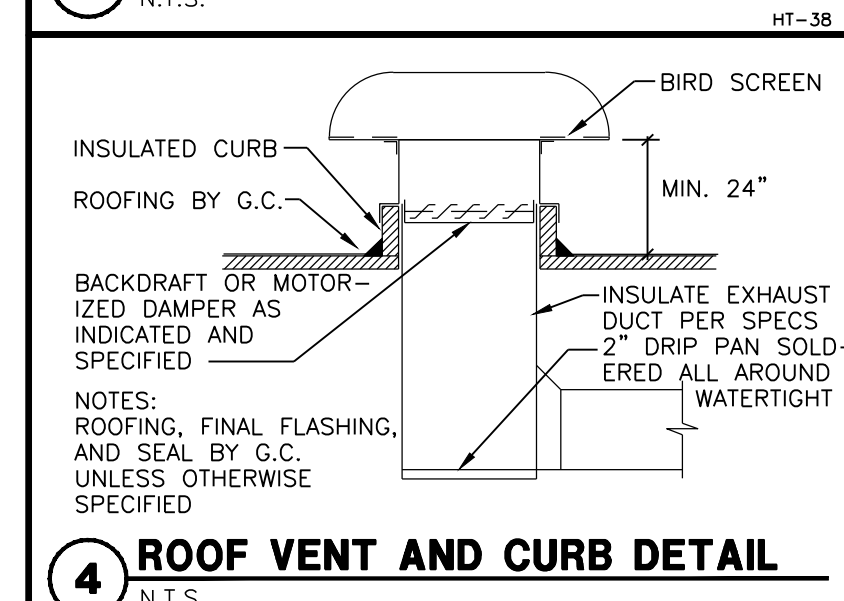
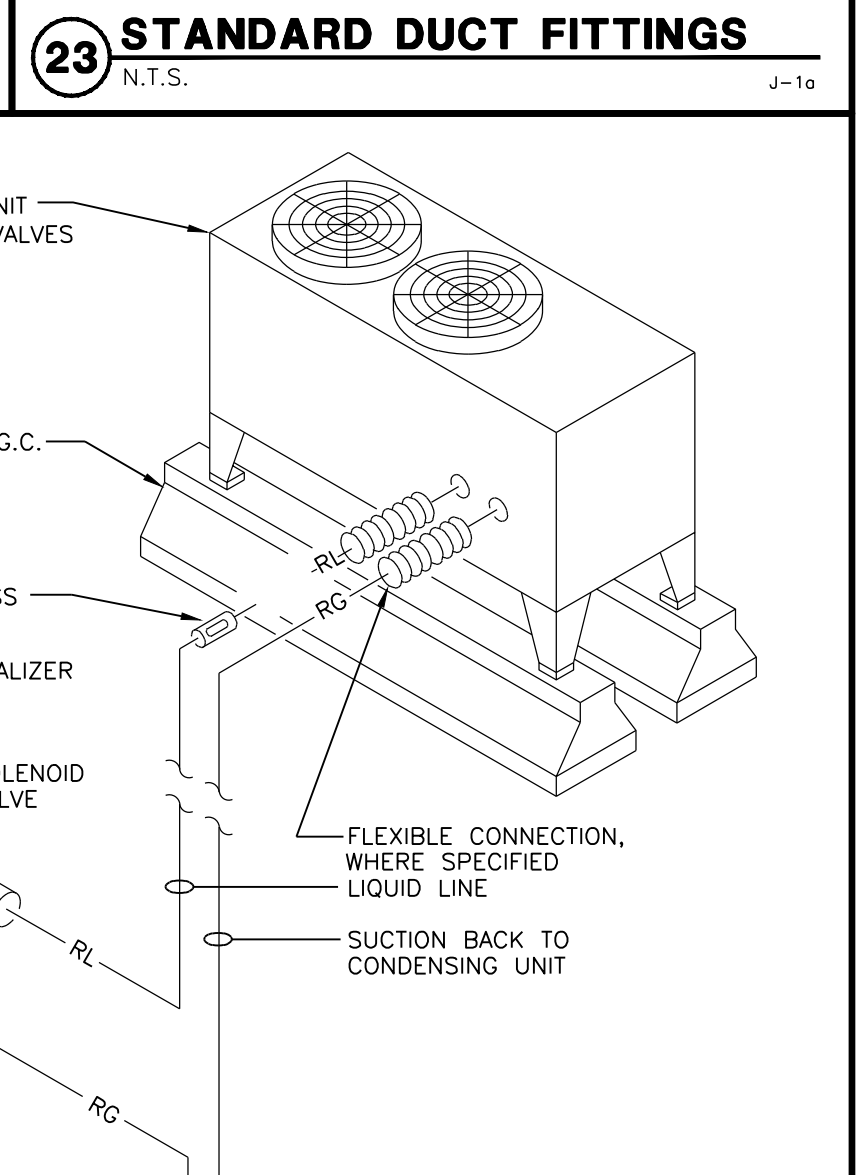
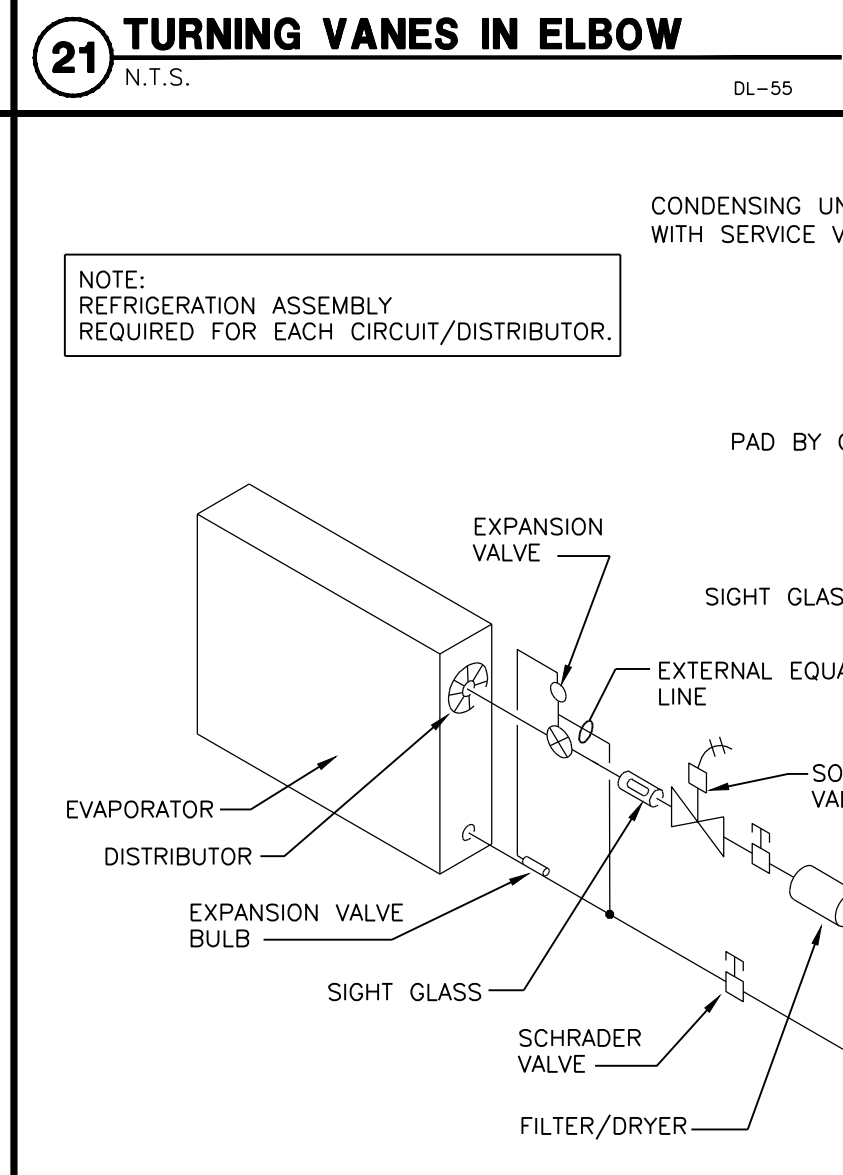
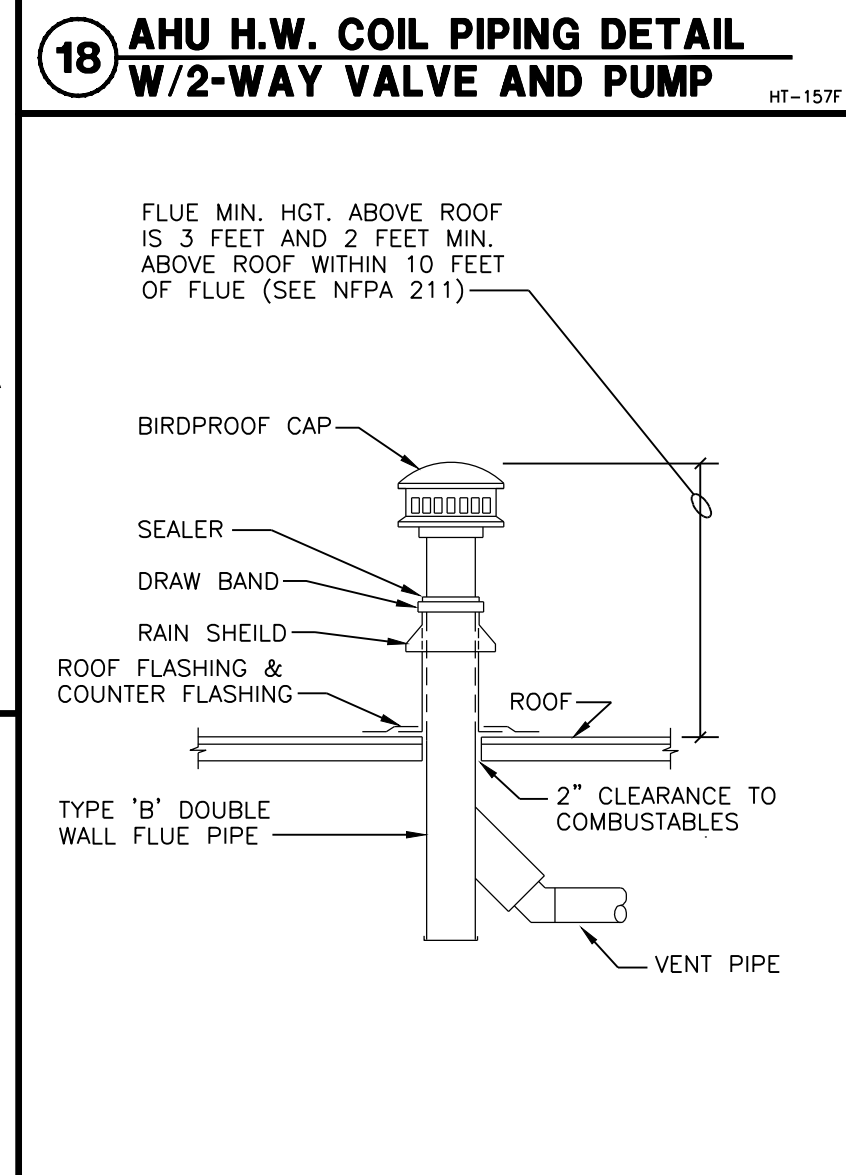
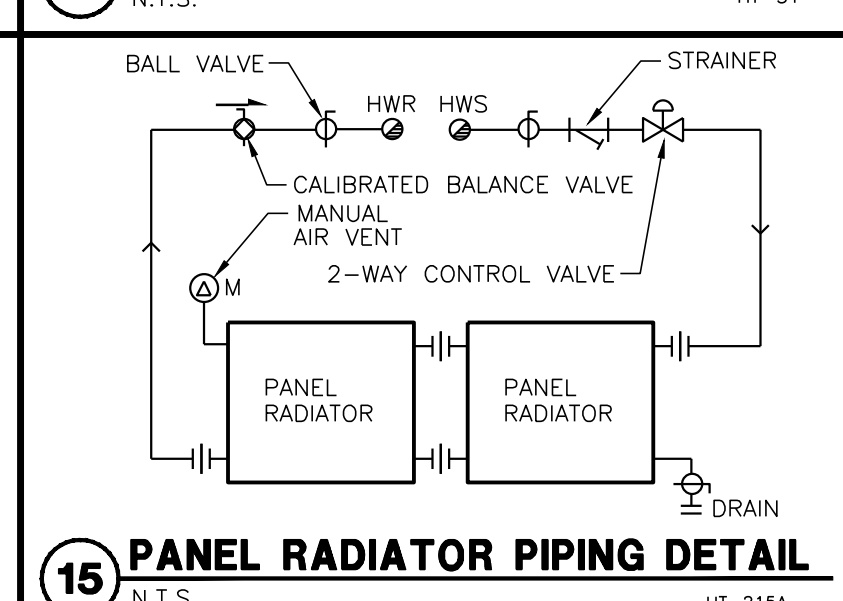
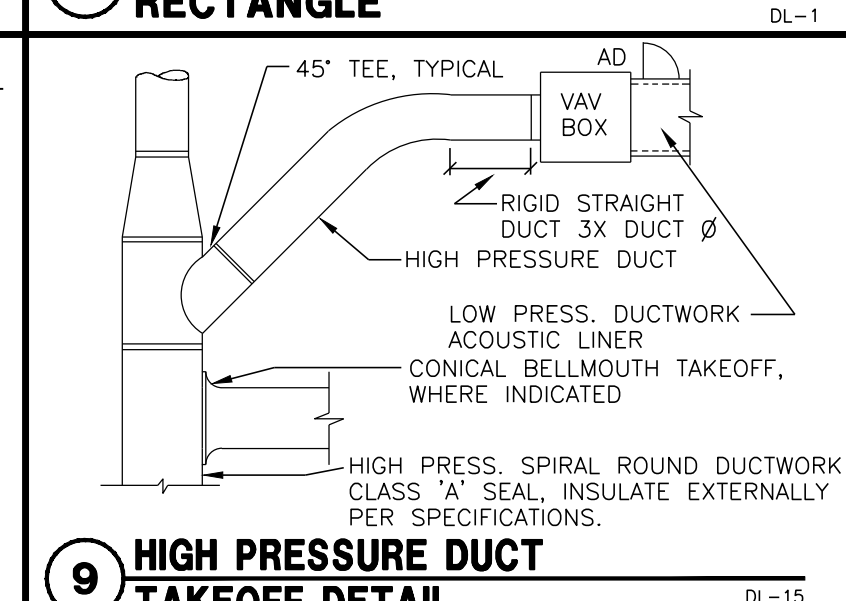
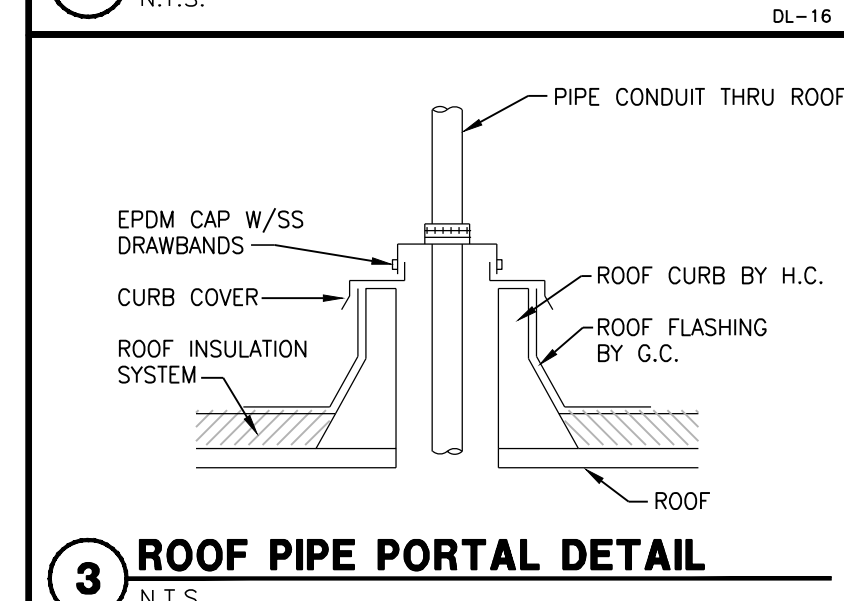
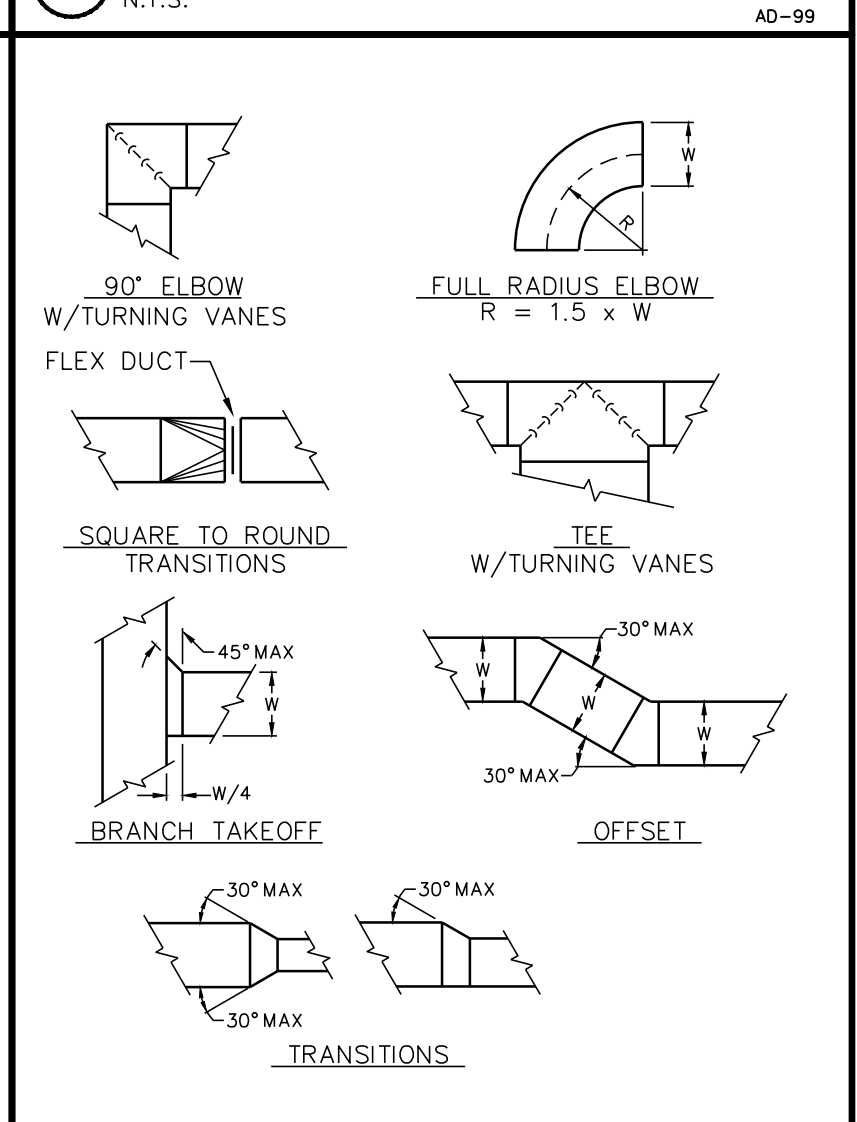
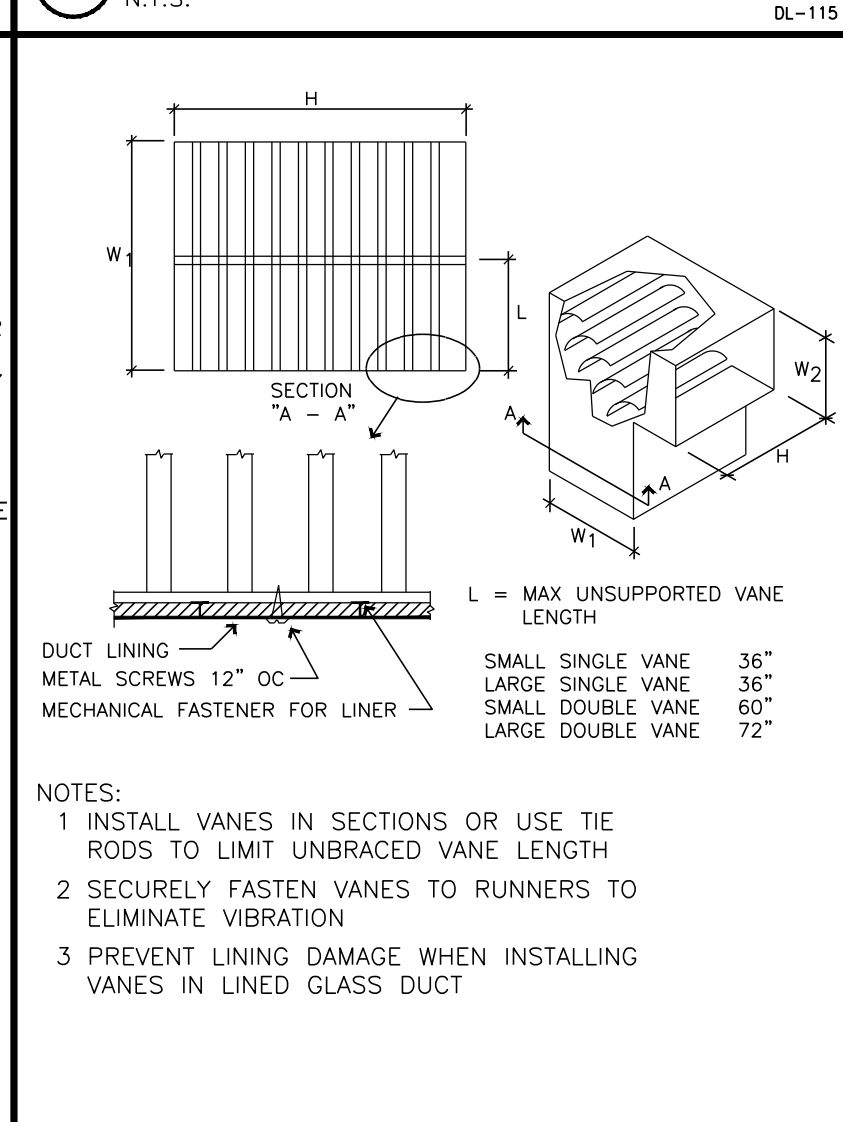
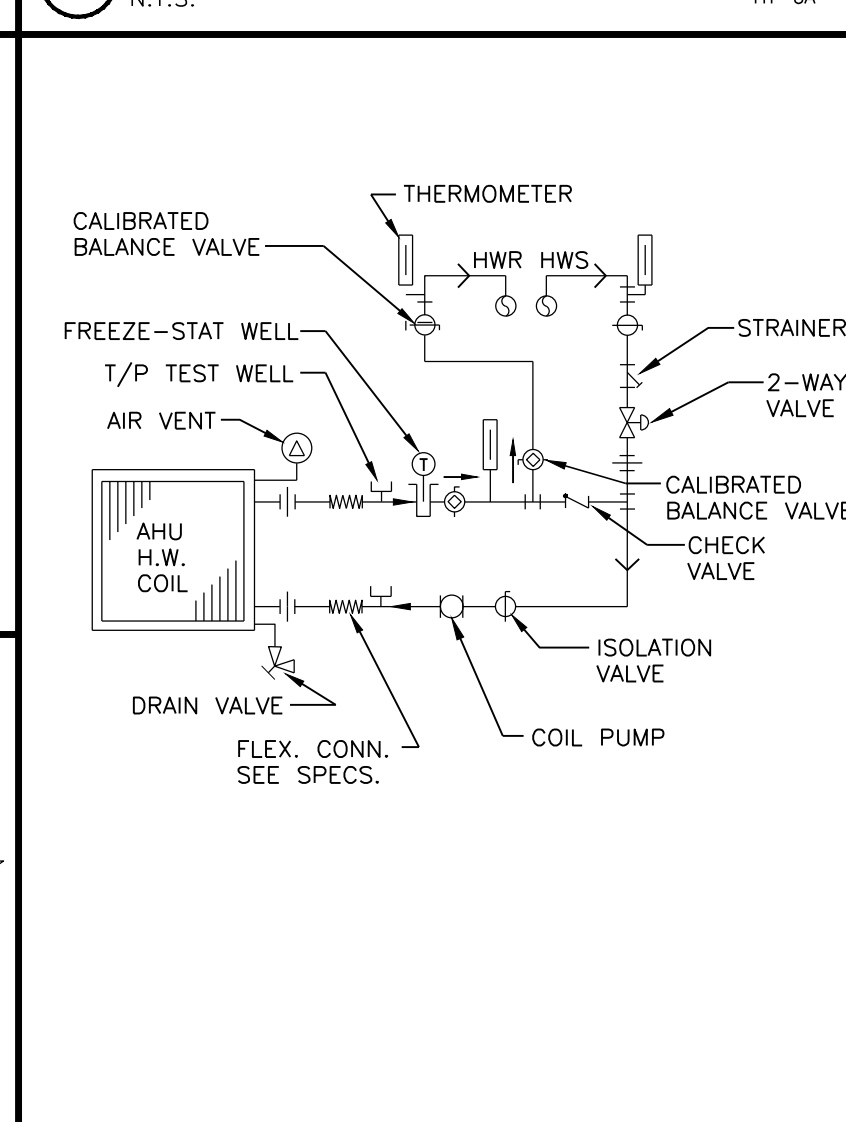
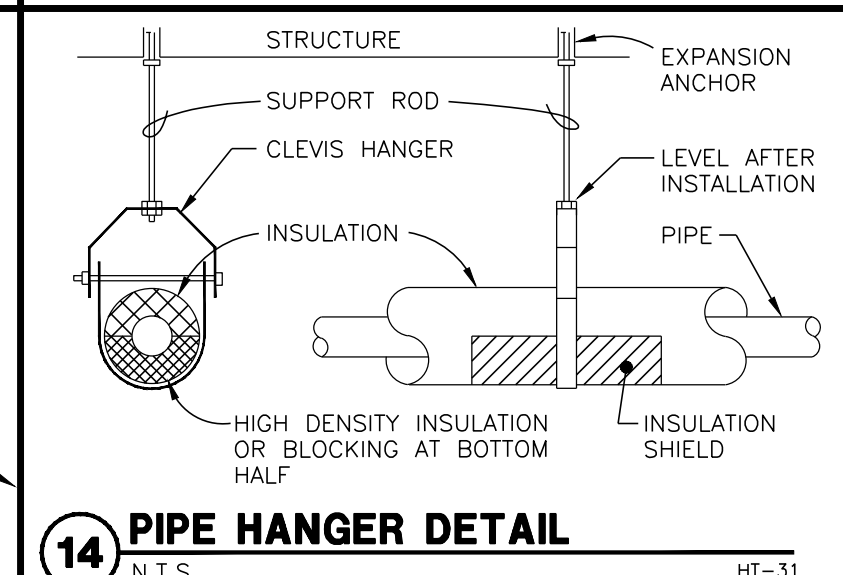
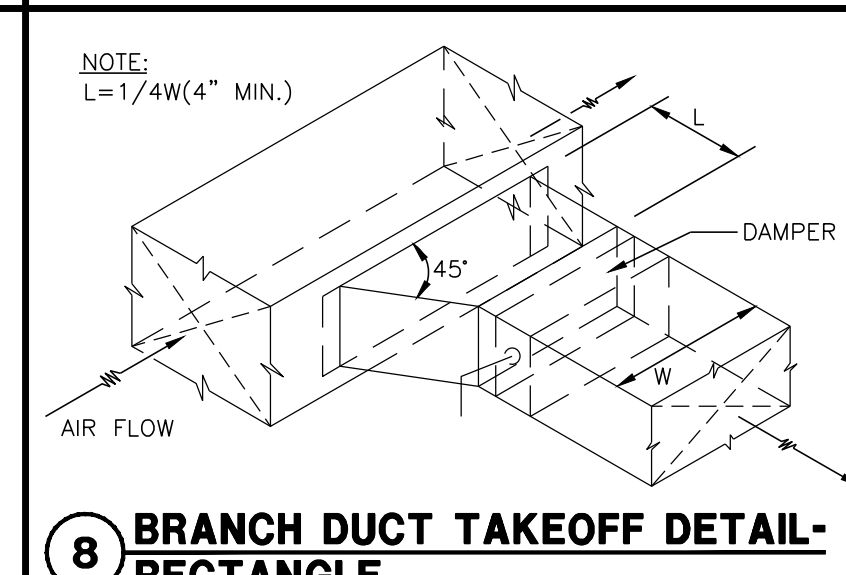
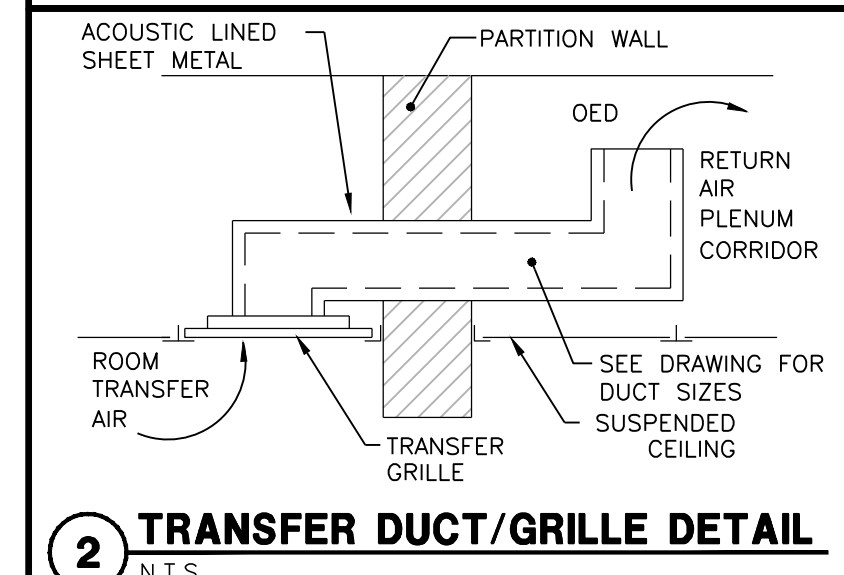
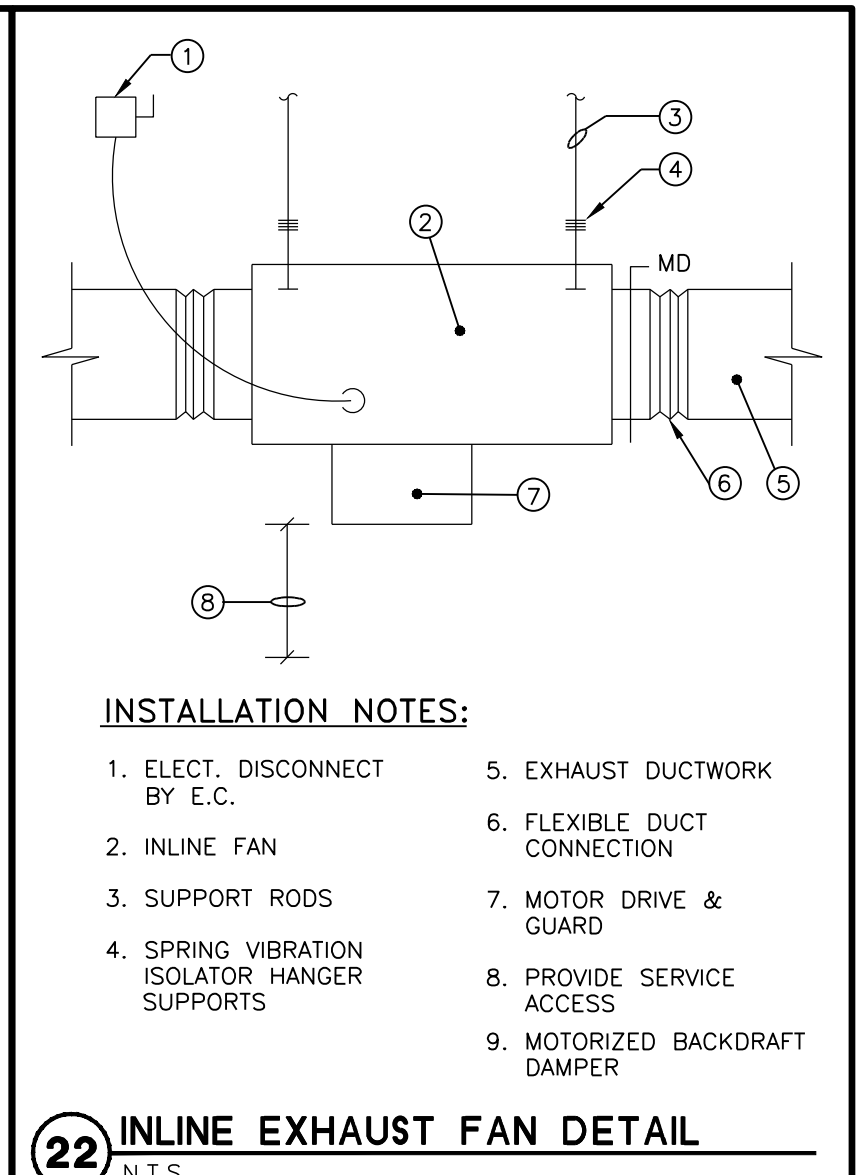
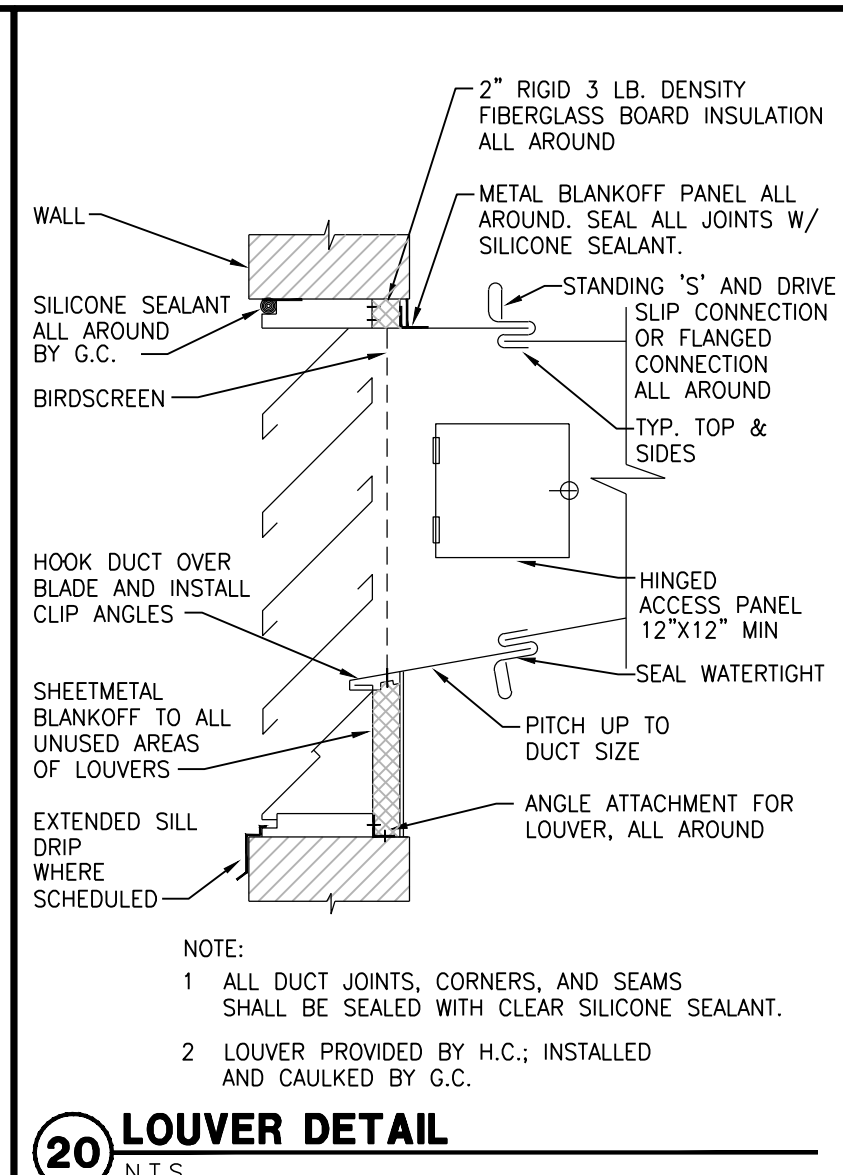
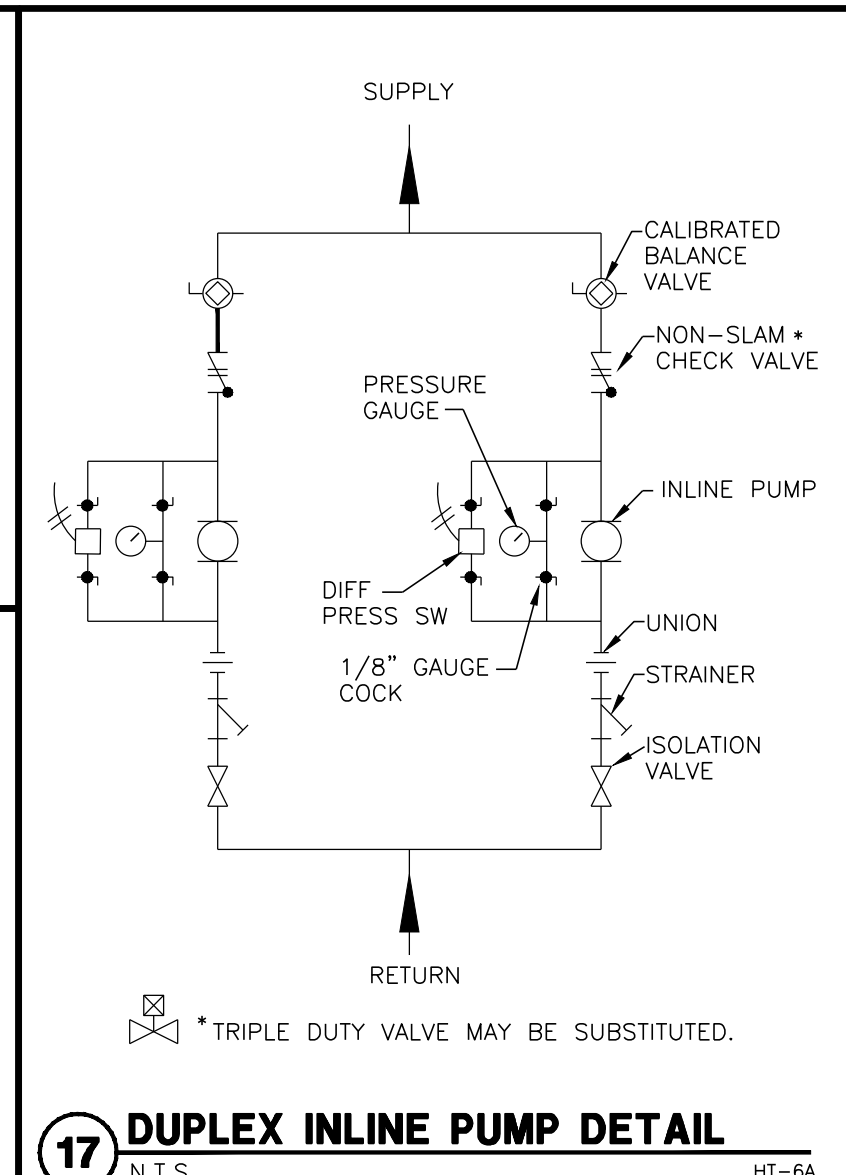
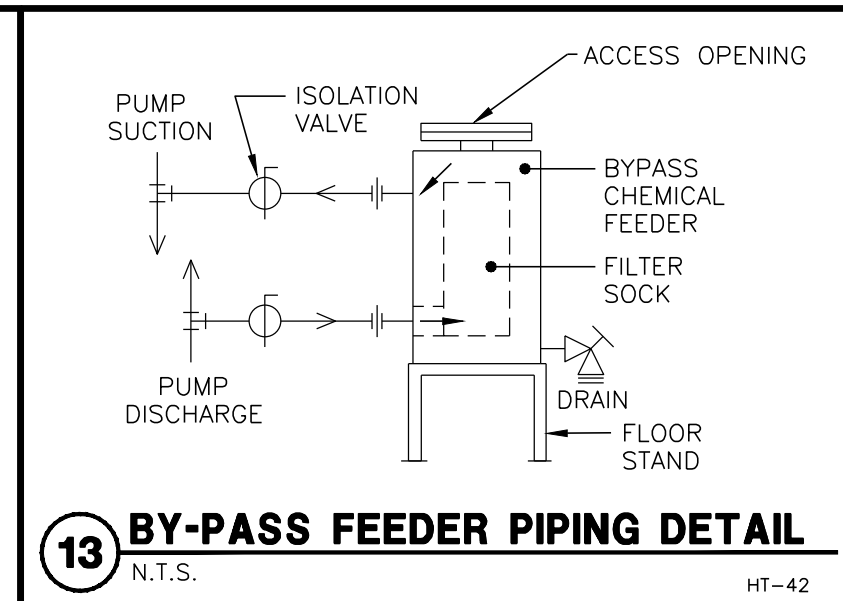
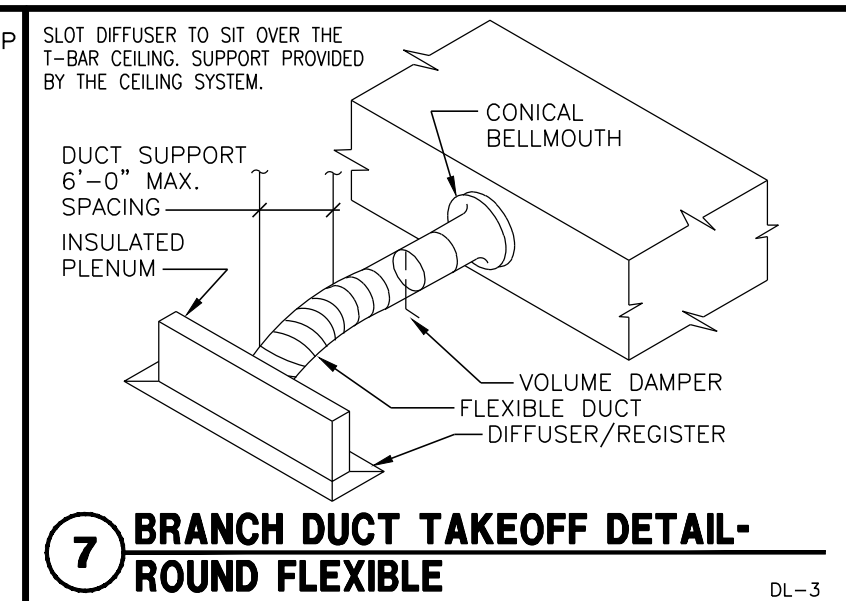
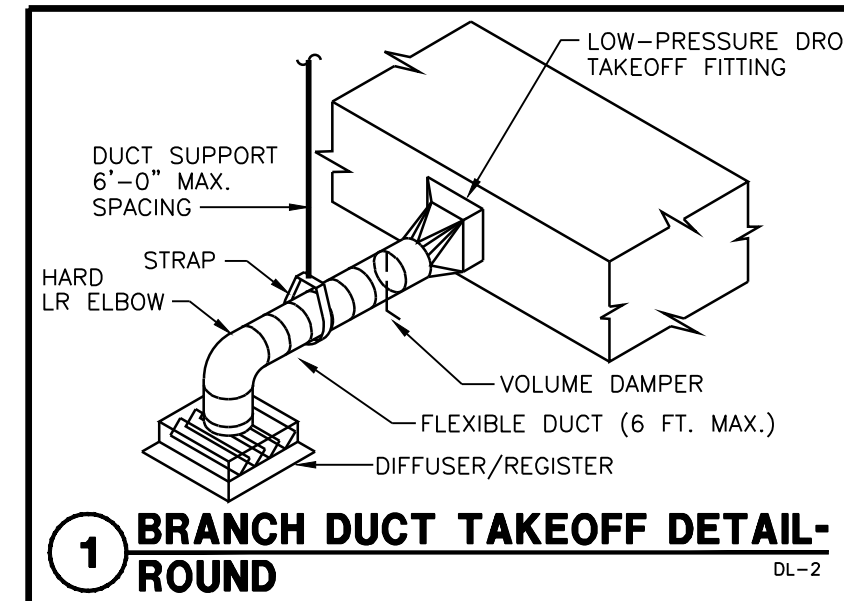
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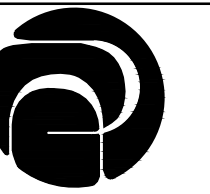


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HVAC DETAILS

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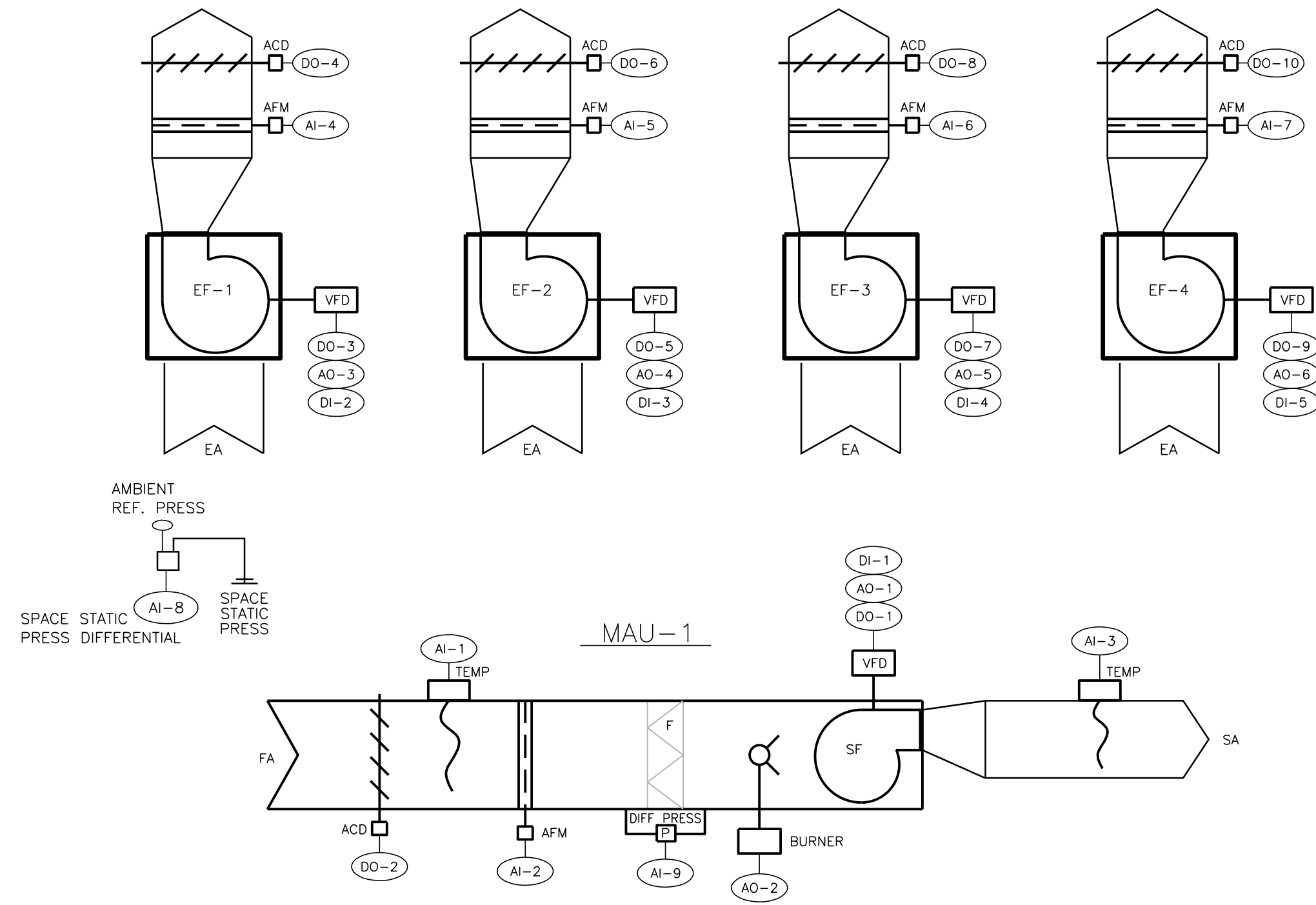
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HVAC
SCHEMATICS

PROJECT #: H1620
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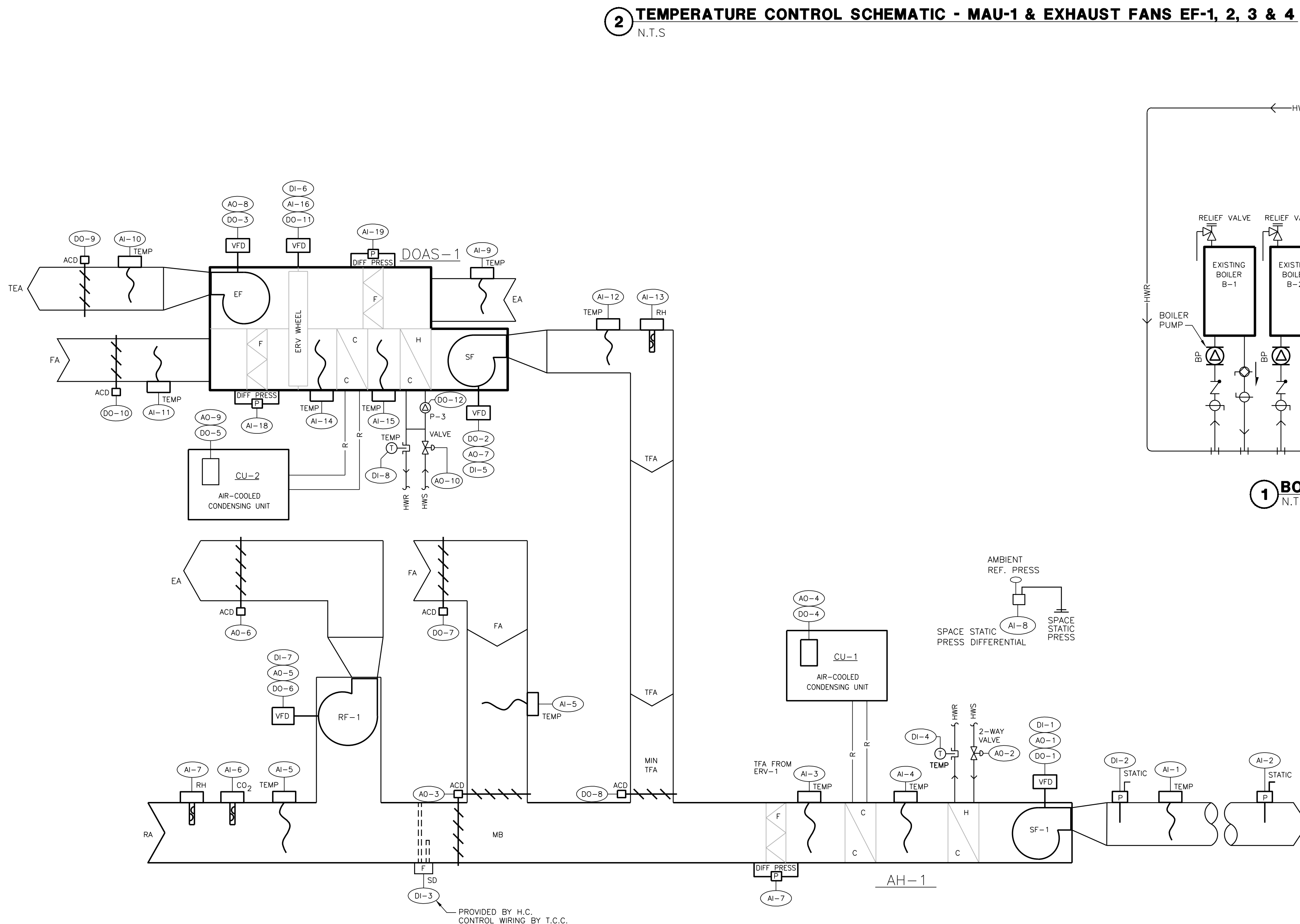


2 TEMPERATURE CONTROL SCHEMATIC - MAU-1 & EXHAUST FANS EF-1, 2, 3 & 4
N.T.S.

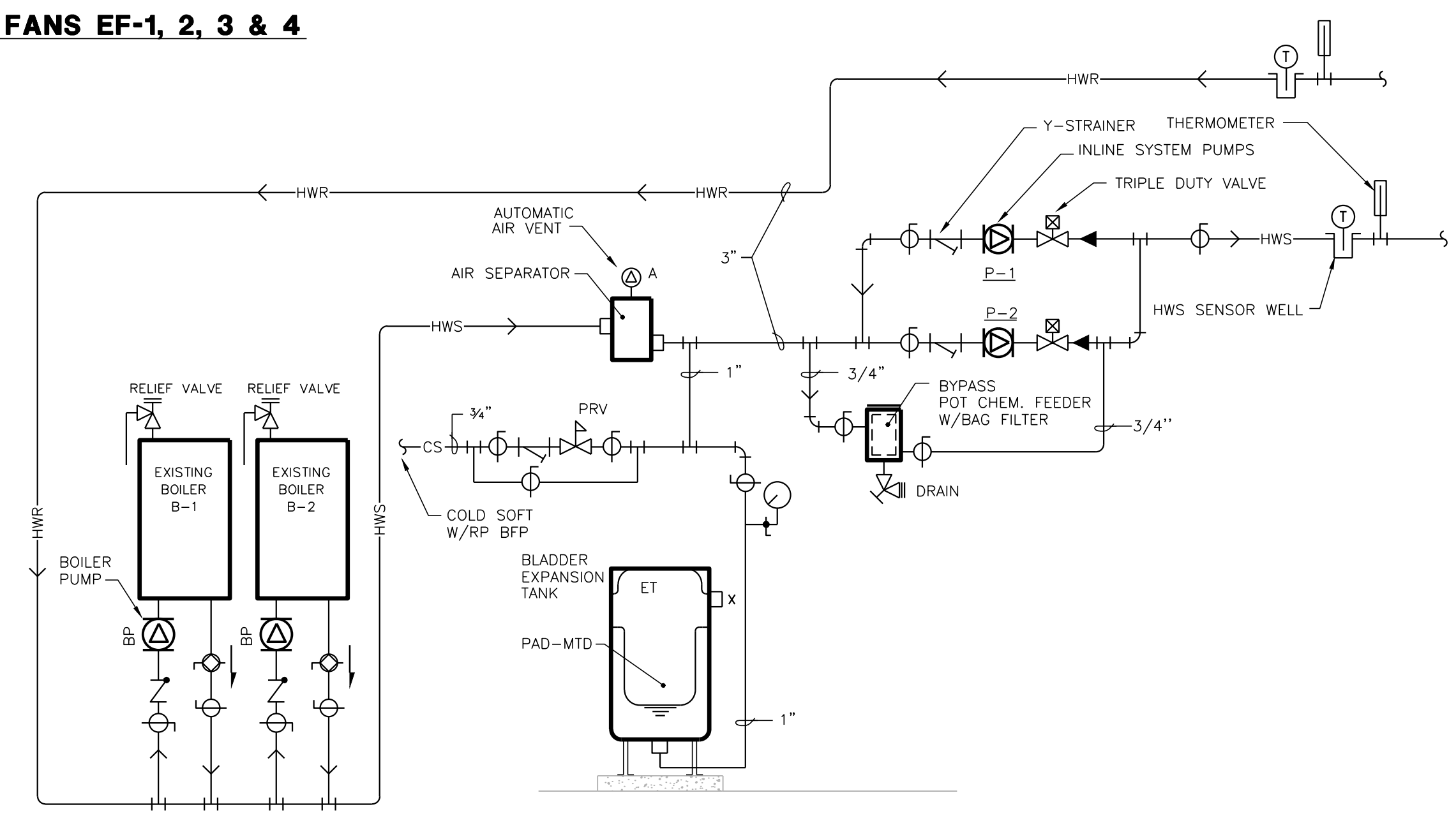
CONTROL POINTS

DIGITAL OUTPUTS - DO		ANALOG OUTPUTS - AO	
DO-1	MAU-1 START/STOP	AO-1	MAU-1 SF VFD SPEED
DO-2	MAU-1 FA DAMPER	AO-2	MAU-1 BURNER CAPACITY
DO-3	EF-1 START/STOP	AO-3	EF-1 VFD SPEED
DO-4	EF-1 EA DAMPER	AO-4	EF-2 VFD SPEED
DO-5	EF-2 START/STOP	AO-5	EF-3 VFD SPEED
DO-6	EF-2 EA DAMPER	AO-6	EF-4 VFD SPEED
DO-7	EF-3 START/STOP		
DO-8	EF-3 EA DAMPER		
DO-9	EF-4 START/STOP		
DO-10	EF-4 EA DAMPER		

DIGITAL INPUTS - DI		ANALOG INPUTS - AI	
DI-1	MAU-1 SF STATUS	AI-1	MAU-1 FA TEMP
DI-2	EF-1 EF STATUS	AI-2	MAU-1 AIR FLOW
DI-3	EF-2 EF STATUS	AI-3	LAU-1 LA TEMP
DI-4	EF-3 EF STATUS	AI-4	EF-1 AIR FLOW
DI-5	EF-4 EF STATUS	AI-5	EF-2 AIR FLOW
		AI-6	EF-3 AIR FLOW
		AI-7	EF-4 AIR FLOW
		AI-8	SPACE STATIC PRESS. DIFF.
		AI-9	MAU-1 FILTER STATUS



2 TEMPERATURE CONTROL SCHEMATIC - AH-1 & RF-1 & DOAS-1
N.T.S.



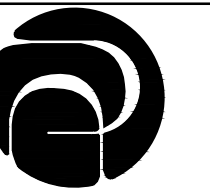
1 BOILER/HYDRONIC PIPING SCHEMATIC
N.T.S.

CONTROL POINTS

DIGITAL OUTPUTS - DO		ANALOG OUTPUTS - AO	
DO-1	SF-1 START/STOP	AO-1	SF-1 VFD SPEED
DO-2	DOAS-1 START/STOP SF	AO-2	HTG. 2-WAY VALVE
DO-3	CU-1 START/STOP	AO-3	MA DAMPERS
DO-4	CU-1 ENABLE/DISABLE	AO-4	CU-1 MODULATING COMPRESSOR CAP.
DO-5	CU-2 ENABLE/DISABLE	AO-5	RF-1 VFD SPEED
DO-6	RF-1 START/STOP	AO-6	EA RELIEF DAMPER
DO-7	FA DAMPER	AO-7	DOAS-1 SF VFD SPEED
DO-8	MIN FA DAMPER	AO-8	DOAS-1 SF VFD SPEED
DO-9	DOAS-1 TEA DAMPER	AO-9	CU-2 MODULATING COMPRESSOR CAP.
DO-10	DOAS-1 FA DAMPER	AO-10	DOAS-1 HTG 2-WAY VALVE
DO-11	DOAS-1 SF WHEEL		
DO-12	PUMP P-3		

DIGITAL INPUTS - DI		ANALOG INPUTS - AI	
DI-1	SF-1 STATUS	AI-1	AH-1 SA TEMP
DI-2	SF-1 HIGH STATIC LIMIT ALARM	AI-2	AH-1 SA DUCT STATIC
DI-3	AH-1 HIGH STATIC LIMIT ALARM	AI-3	AH-1 MA TEMP
DI-4	AH-1 SA SMOKE ALARM	AI-4	AH-1 CC LA TEMP
DI-5	HC-1 HWR TEMP FREEZE STAT	AI-5	AH-1 FA TEMP
DI-6	DOAS-1 SF STATUS	AI-6	RA CO2
DI-7	DOAS-1 EF STATUS	AI-7	RA RH
DI-8	RF-1 STATUS	AI-8	SPACE STATIC PRESS. DIFF.
		AI-9	DOAS-1 EA TEMP
		AI-10	DOAS-1 TEA TEMP
		AI-11	DOAS-1 FA TEMP
		AI-12	DOAS-1 TFA TEMP
		AI-13	DOAS-1 TFA RH
		AI-14	DOAS-1 FA TEMP
		AI-15	DOAS-1 CC LA TEMP
		AI-16	DOAS-1 WHEEL SPEED
		AI-17	AH-1 FILTER STATUS
		AI-18	DOAS-1 FILTER STATUS FA
		AI-19	DOAS-1 FILTER STATUS EA

PROVIDED BY H.C.
CONTROL WIRING BY T.C.C.



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CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

ISSUANCES:

BID SET 5-15-2019

UNIT B -
ELECTRICAL
LIGHTING
DEMOLITION
PLAN

PROJECT #: H1620
SHEET NUMBER

DE100

② MEZZANINE - ELECTRICAL LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

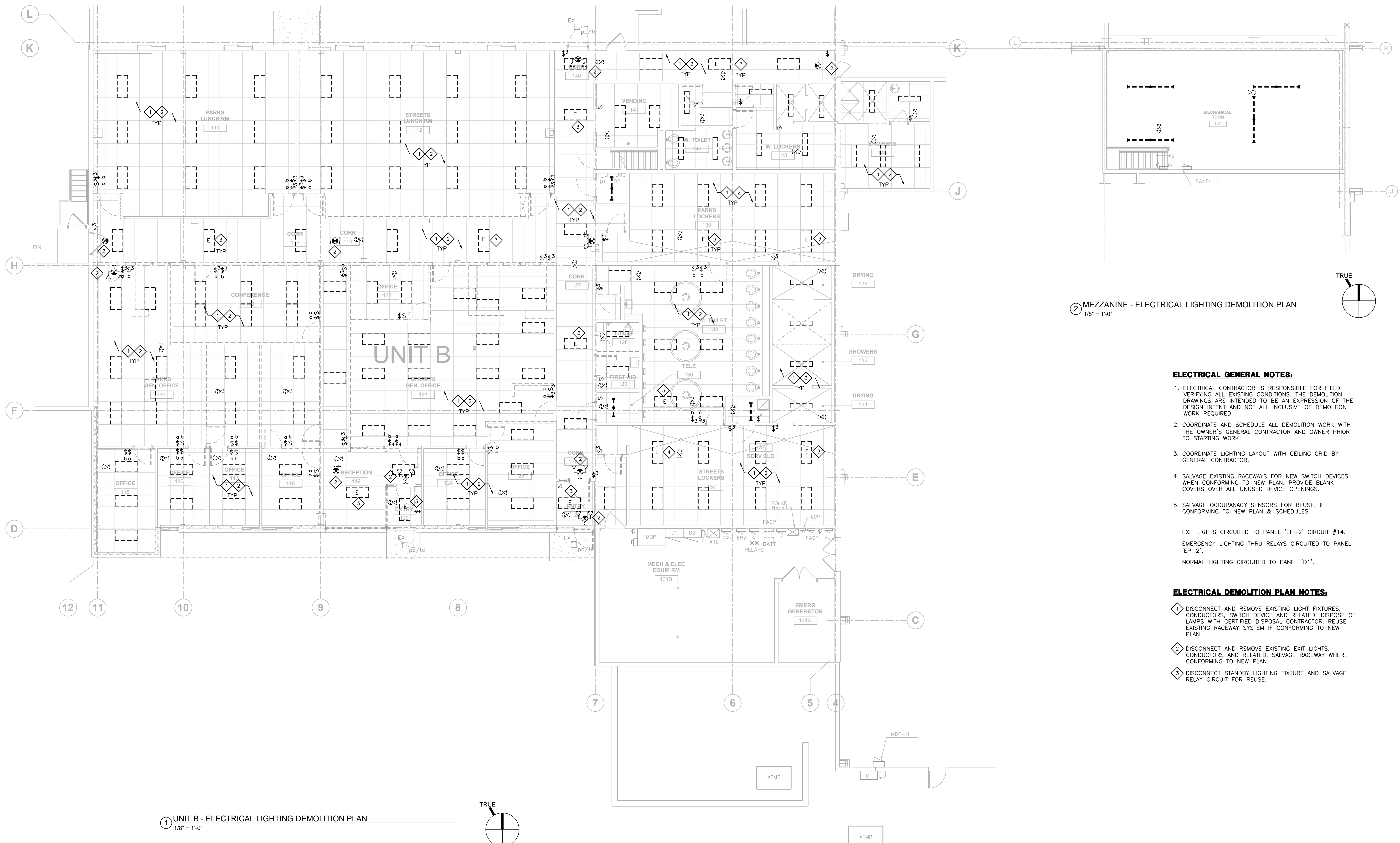
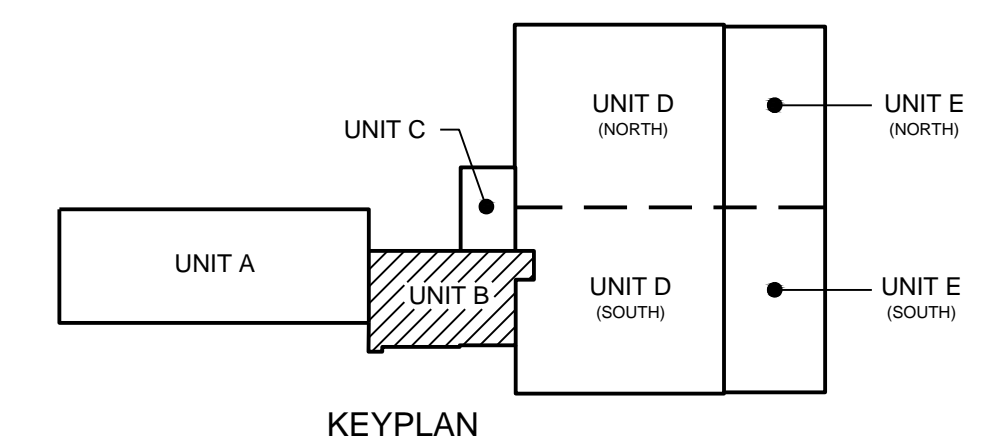
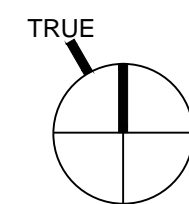
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DEMOLITION DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF DEMOLITION WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL DEMOLITION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. COORDINATE LIGHTING LAYOUT WITH CEILING GRID BY GENERAL CONTRACTOR.
4. SALVAGE EXISTING RACEWAYS FOR NEW SWITCH DEVICES WHEN CONFORMING TO NEW PLAN. PROVIDE BLANK COVERS OVER ALL UNUSED DEVICE OPENINGS.
5. SALVAGE OCCUPANCY SENSORS FOR REUSE, IF CONFORMING TO NEW PLAN & SCHEDULES.

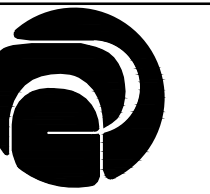
EXIT LIGHTS CIRCUITED TO PANEL 'EP-2' CIRCUIT #14.
EMERGENCY LIGHTING THRU RELAYS CIRCUITED TO PANEL 'EP-2'.
NORMAL LIGHTING CIRCUITED TO PANEL 'D1'.

ELECTRICAL DEMOLITION PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, CONDUCTORS, SWITCH DEVICE AND RELATED. DISPOSE OF LAMPS WITH CERTIFIED DISPOSAL CONTRACTOR. REUSE EXISTING RACEWAY SYSTEM IF CONFORMING TO NEW PLAN.
2. DISCONNECT AND REMOVE EXISTING EXIT LIGHTS, CONDUCTORS AND RELATED. SALVAGE RACEWAY WHERE CONFORMING TO NEW PLAN.
3. DISCONNECT STANDBY LIGHTING FIXTURE AND SALVAGE RELAY CIRCUIT FOR REUSE.

① UNIT B - ELECTRICAL LIGHTING DEMOLITION PLAN
1/8" = 1'-0"





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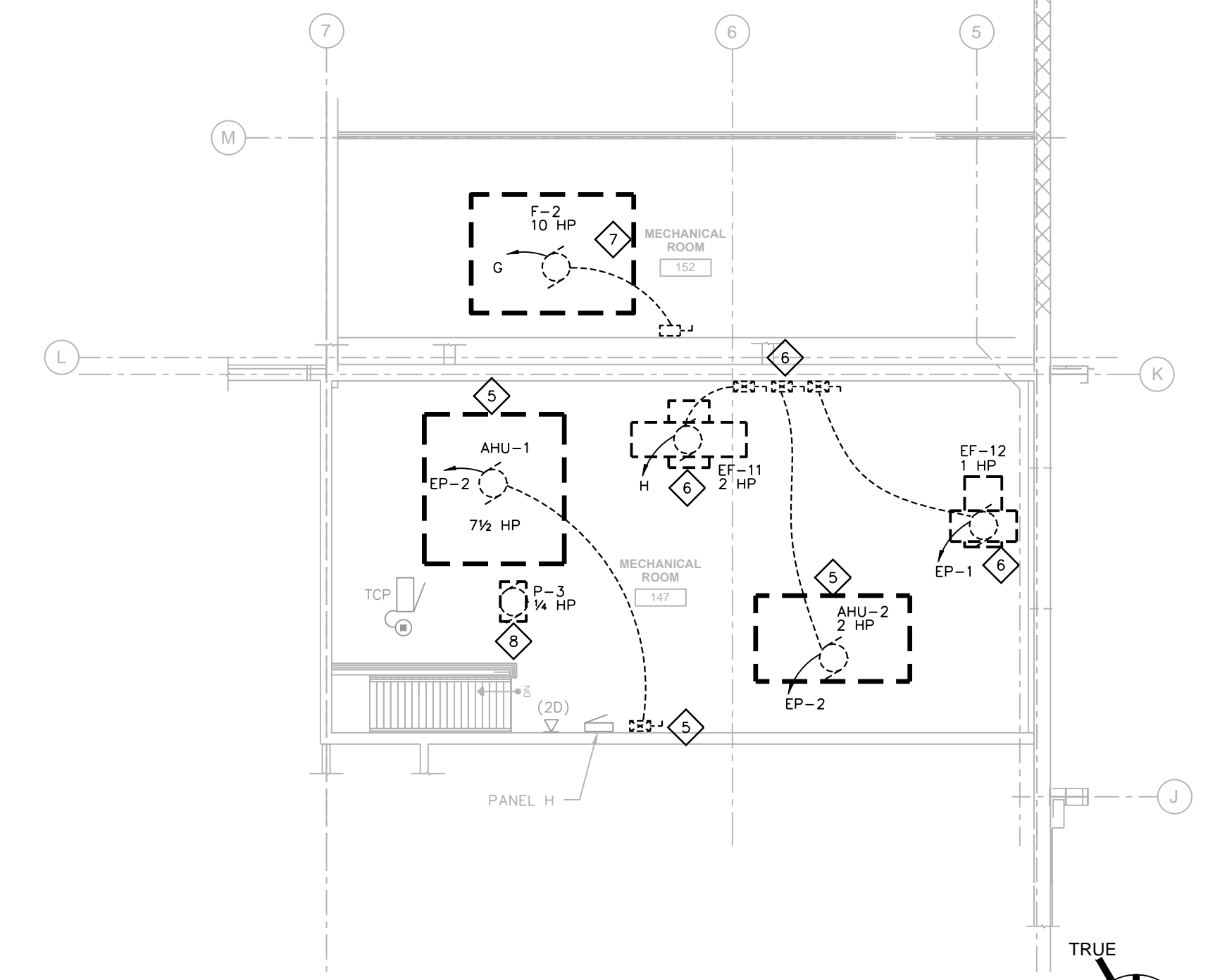
ISSUANCES:

BID SET 5-15-2019

UNIT B -
ELECTRICAL
POWER/LV
DEMOLITION
PLAN

PROJECT #: H1620
SHEET NUMBER

DE101



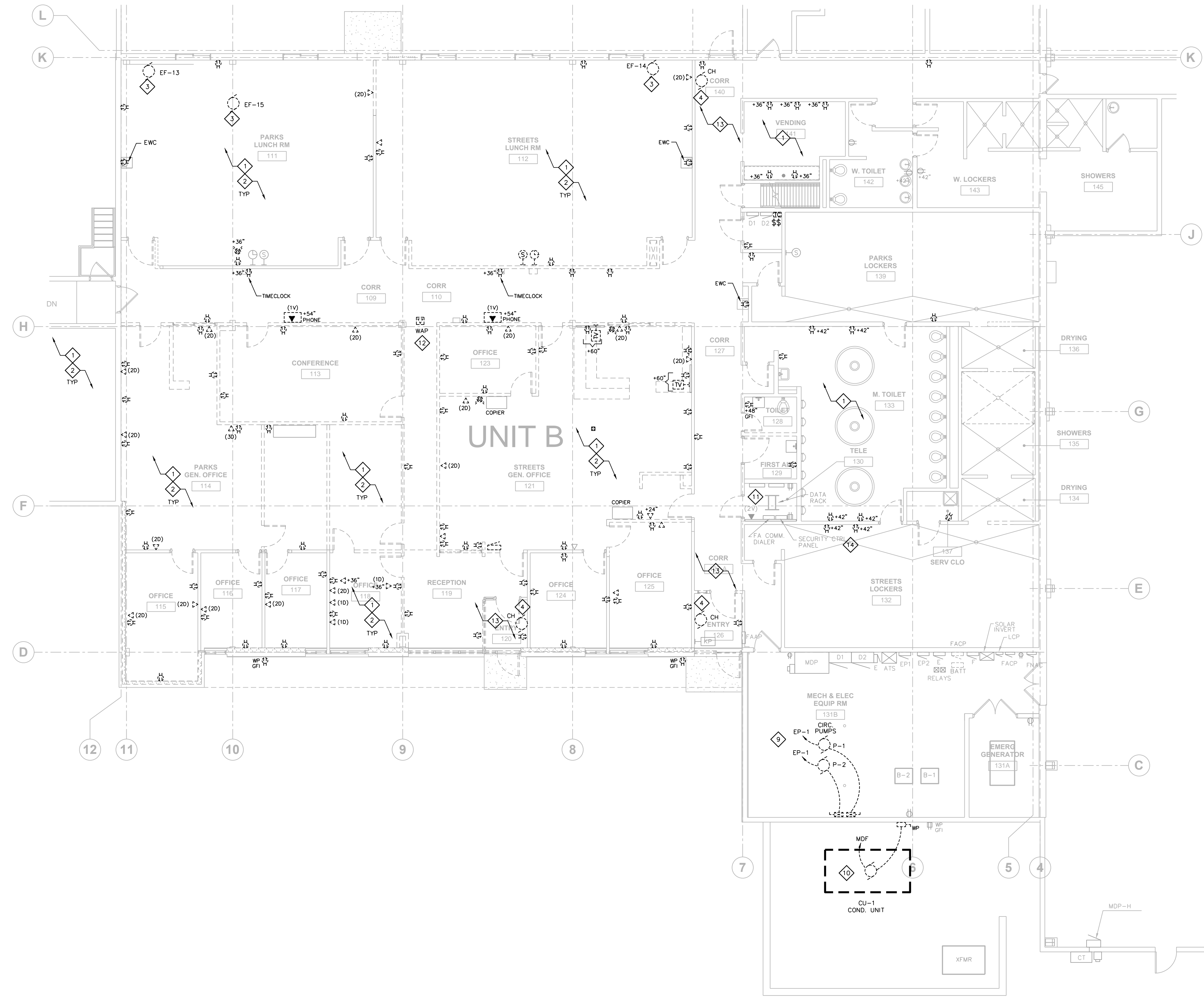
2 MEZZANINE - ELECTRICAL POWER/LV DEMOLITION PLAN
1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

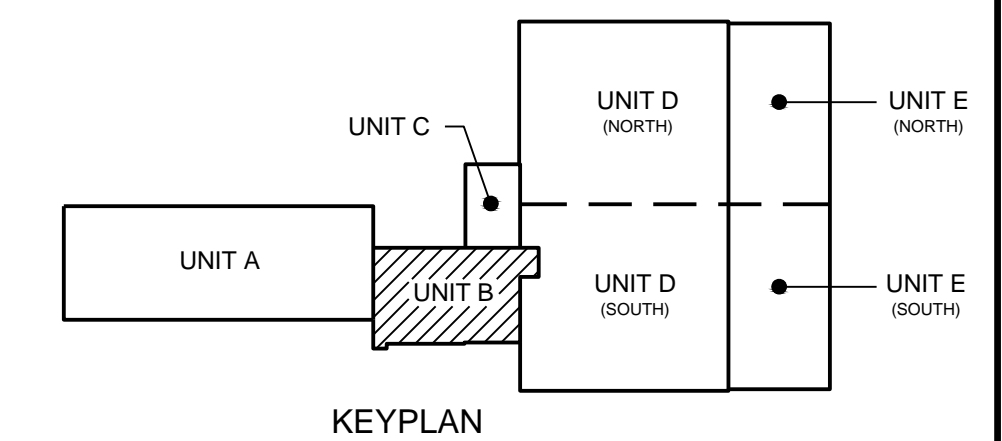
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE DEMOLITION DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF DEMOLITION WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL DEMOLITION WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. COORDINATE LIGHTING LAYOUT WITH CEILING GRID BY GENERAL CONTRACTOR.
4. SALVAGE EXISTING RACEWAYS FOR NEW RECEPTACLES, MOTORS & EQUIPMENT; IF CONFORMING TO NEW PLAN. PROVIDE BLANK COVERS OVER ALL UNUSED DEVICE OPENINGS.

ELECTRICAL DEMOLITION PLAN NOTES:

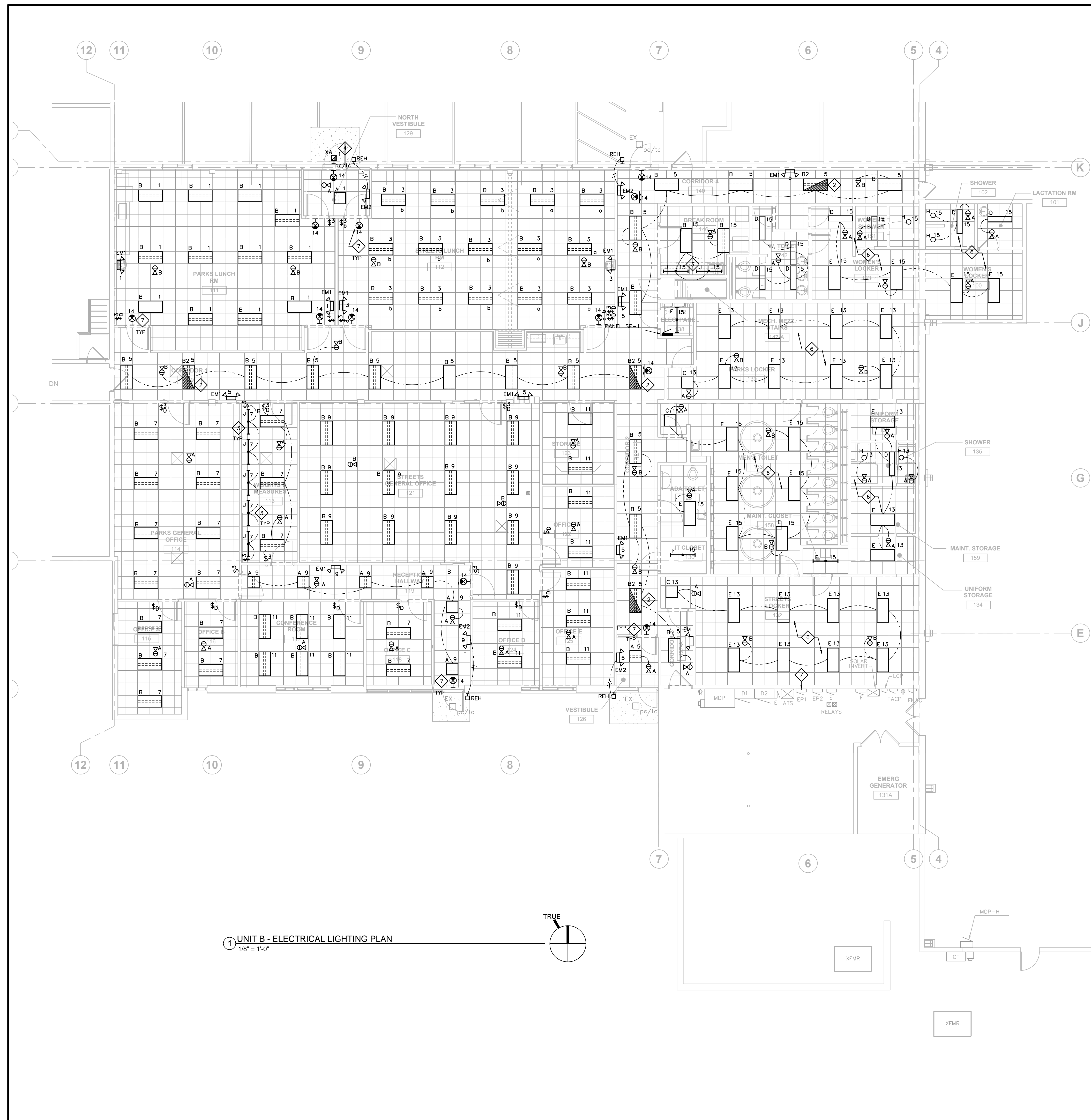
- 1 DISCONNECT AND REMOVE EXISTING RECEPTACLES AND CONDUCTORS BACK TO PANELBOARD. REUSE EXISTING RACEWAY SYSTEM IF CONFORMING TO NEW PLAN.
- 2 DISCONNECT AND REMOVE EXISTING VOICE/DATA CABLES BACK TO PATCH PANELS AT DATA RACK (TELE 130). REUSE EXISTING CONDUIT AND RACEWAY SYSTEM IF CONFORMING TO NEW PLAN.
- 3 DISCONNECT POWER TO EXISTING EXHAUST FANS. REMOVE EXISTING CONDUIT, CONDUCTORS AND RACEWAY SYSTEM BACK TO PANELBOARD.
- 4 DISCONNECT POWER TO EXISTING CABINET UNIT HEATERS. REMOVE CONDUCTORS, CONDUIT AND RELATED BACK TO PANELBOARD.
- 5 DISCONNECT POWER TO EXISTING AIR HANDLER UNIT AHU-1 & 2. REMOVE EXISTING CONDUCTORS AND RELATED BACK TO PANELBOARD. SALVAGE RACEWAY SYSTEM FOR REUSE WITH NEW PLAN, IF CONFORMING TO NEW PLAN.
- 6 DISCONNECT POWER TO EXISTING FANS. REMOVE CONDUCTORS, CONDUIT AND RELATED BACK TO PANELBOARD.
- 7 DISCONNECT POWER TO EXISTING MAKE-UP AIR UNIT F-2. REMOVE EXISTING CONDUCTORS, DISCONNECTS AND RELATED BACK TO PANELBOARD.
- 8 DISCONNECT POWER DISCONNECT AND RELATED TO COIL PUMP P-3. SALVAGE RACEWAY AND PROTECT CONDUCTORS FOR REUSE WITH NEW PLAN, IF CONFORMING.
- 9 DISCONNECT AND REMOVE POWER TO EXISTING CIRC. PUMPS P-1 & P-2. REMOVE CONDUCTORS AND RACEWAY BACK TO PANELBOARD. REUSE EXISTING RACEWAY IF CONFORMING TO NEW PLAN.
- 10 DISCONNECT AND REMOVE POWER TO EXISTING CONDENSER CU-1. REUSE EXISTING CONDUCTORS AND RACEWAY IF CONFORMING TO NEW PLAN.
- 11 EXISTING EQUIPMENT TO BE REUSED WITH NEW PLAN. DISCONNECT AND REMOVE ALL CABLING FROM PATCH PANELS TO WORK STATIONS.
- 12 REMOVE EXISTING WAP AND SALVAGE FOR REUSE WITH NEW PLAN.
- 13 DISCONNECT AND REMOVE EXISTING SECURITY INPUT SENSORS AND RE-INSTALL WITH NEW PLAN.
- 14 EXISTING SECURITY CONTROL PANEL TO REMAIN. COORDINATE ALL SECURITY REMODELING WITH CITY SECURITY VENDOR: MIDWEST SECURITY.



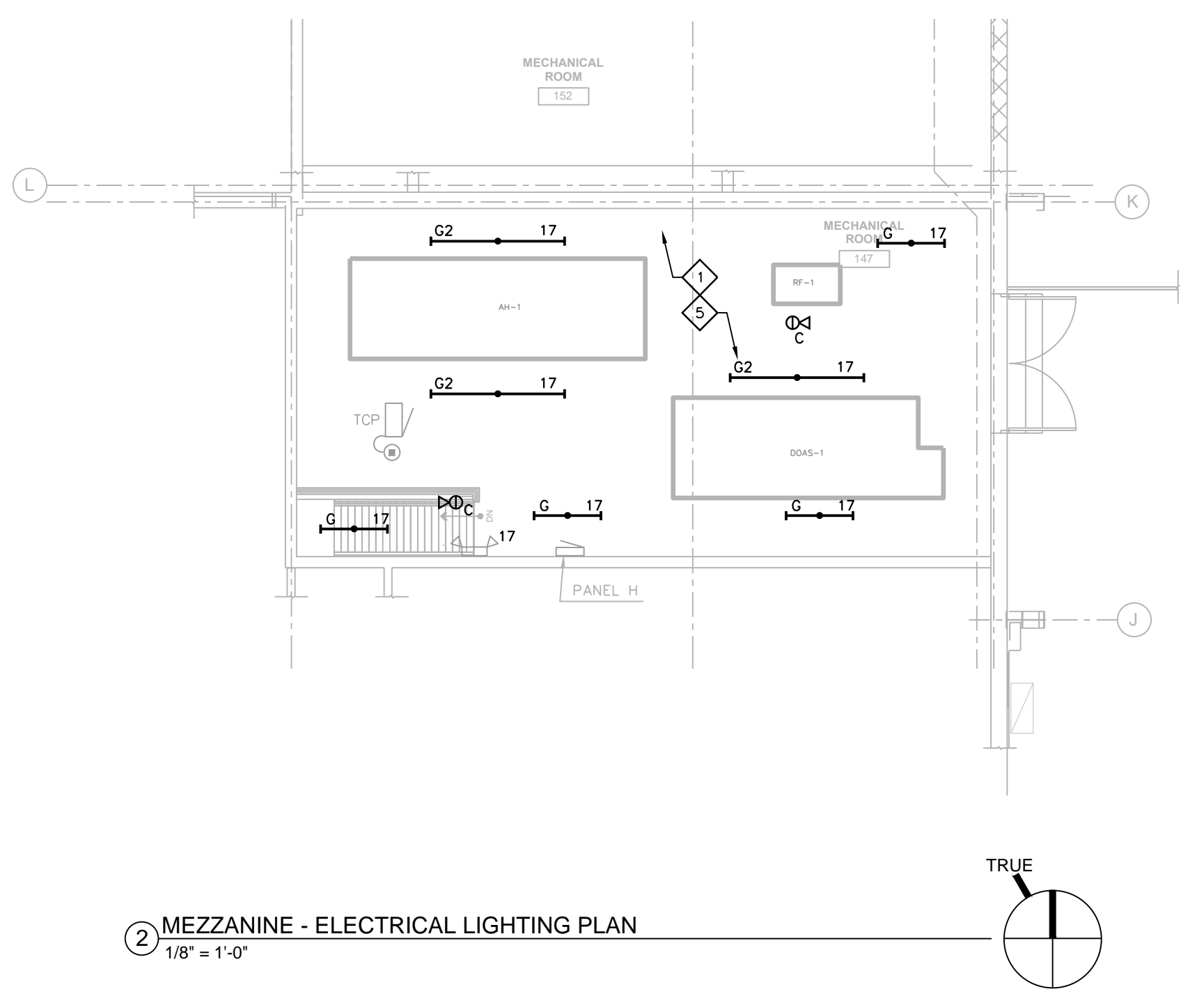
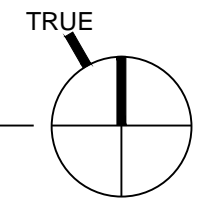
1 UNIT B - ELECTRICAL POWER/LV DEMOLITION PLAN
1/8" = 1'-0"



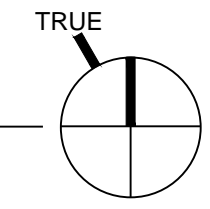
KEYPLAN



① UNIT B - ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



② MEZZANINE - ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



ELECTRICAL GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE ELECTRICAL DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF ELECTRICAL WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE LIGHTING & DEVICE LAYOUT WITH GENERAL CONTRACTOR.
5. ALL RACEWAYS ARE TO BE CONCEALED IN FINISHED AREAS. MECHANICAL & UTILITY AREAS MAY USE SURFACE CONDUIT SYSTEMS.
6. ALL LIGHTS CIRCUITED TO STANDBY PANEL SP-1 UNLESS INDICATED OTHERWISE.
7. CIRCUIT ALL UNIT 'B' EXIST LIGHTS TO PANEL EP-1 CKT #14 (EXISTING CIRCUIT).
8. PROVIDE 0-10 VDC CONTROL WIRING TO ALL DIMMING FIXTURES.
9. BLANK OFF ALL UNUSED SWITCH BOX WITH SS BLANK PLATE.

ELECTRICAL LIGHTING PLAN NOTES:

- ① SUSPEND FIXTURE & CONTROLS BELOW DUCTWORK & PIPING. COORDINATE WORK WITH MECHANICAL TRADES.
- ② UNSWITCHED 50% LEG (STEP DIM) FOR NIGHT LIGHT.
- ③ COORDINATE UNDERCOUNTER LIGHT MOUNTING WITH GENERAL CONTRACTOR.
- ④ EXTEND NEW EXTERIOR LIGHTING POWER TO EXISTING EXTERIOR LIGHTING CKT# FIELD VERIFY.
- ⑤ MOVE MEZZ LIGHTING CKT FROM PANEL EP-1 CKT#31 TO NEW PANEL SP-1.
- ⑥ MOVE RESTROOM/LOCKER LIGHTING CKT FROM PANEL EP-1 CKT#16 TO NEW PANEL SP-1.
- ⑦ REMOVE UNIT 'B' LIGHTING CIRCUITS FROM PANEL EP-1 & RELOCATE TO NEW STANDBY PANEL SP-1, EXCEPT EXIT LIGHTS & BOILER ROOM LTS.

DIMMER TYPES:

- A 0-10 VDC LED DRIVERS: SYNERGY ISD-BC-120/277-WH OR APPROVED EQUAL.

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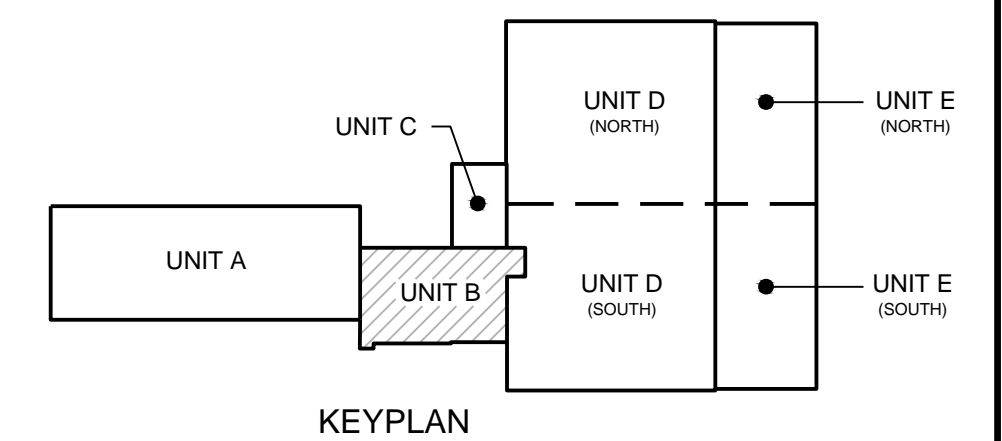
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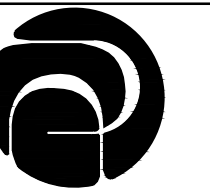
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UNIT B - ELECTRICAL LIGHTING PLAN

PROJECT #: H1620
SHEET NUMBER

E100





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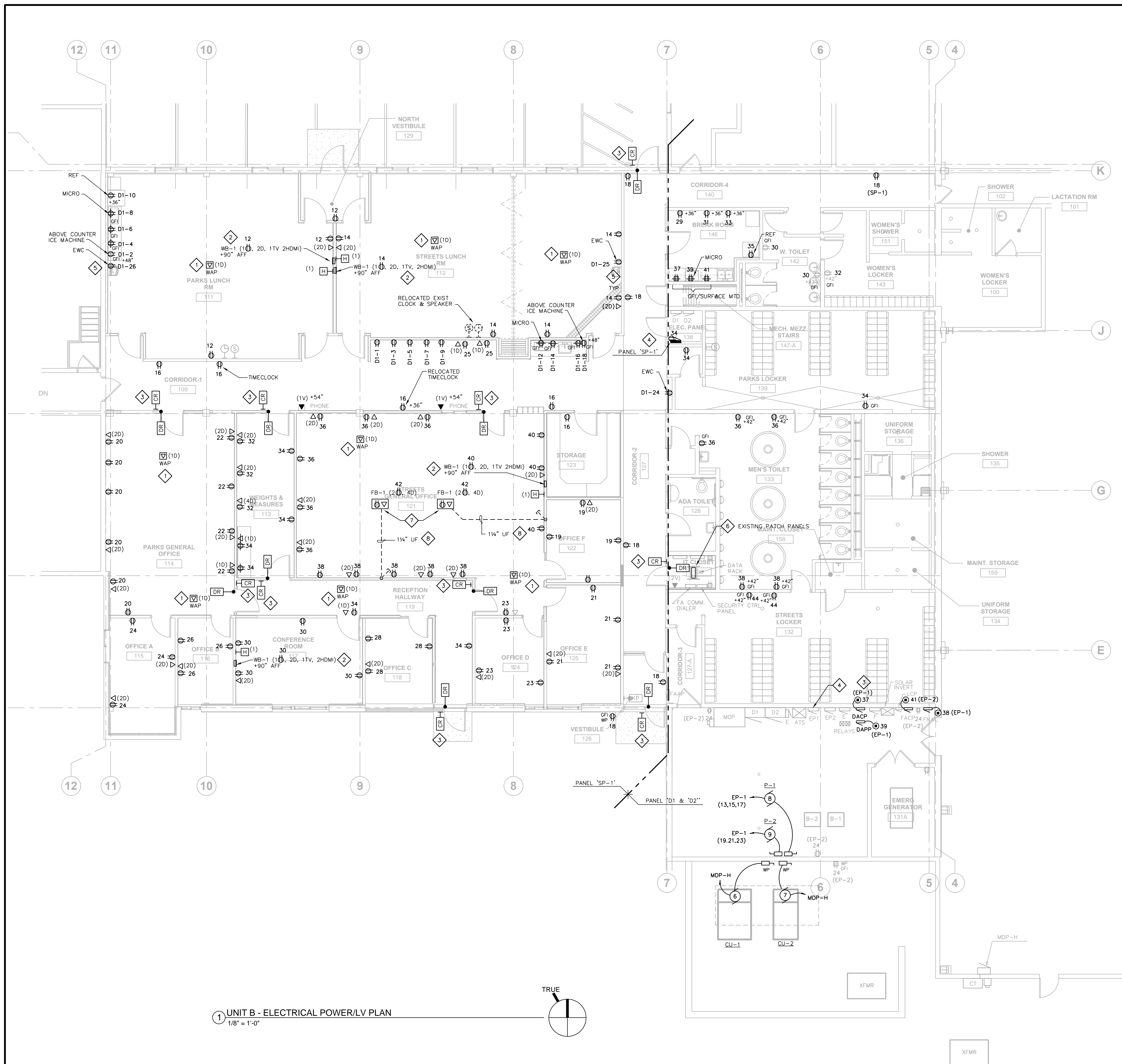
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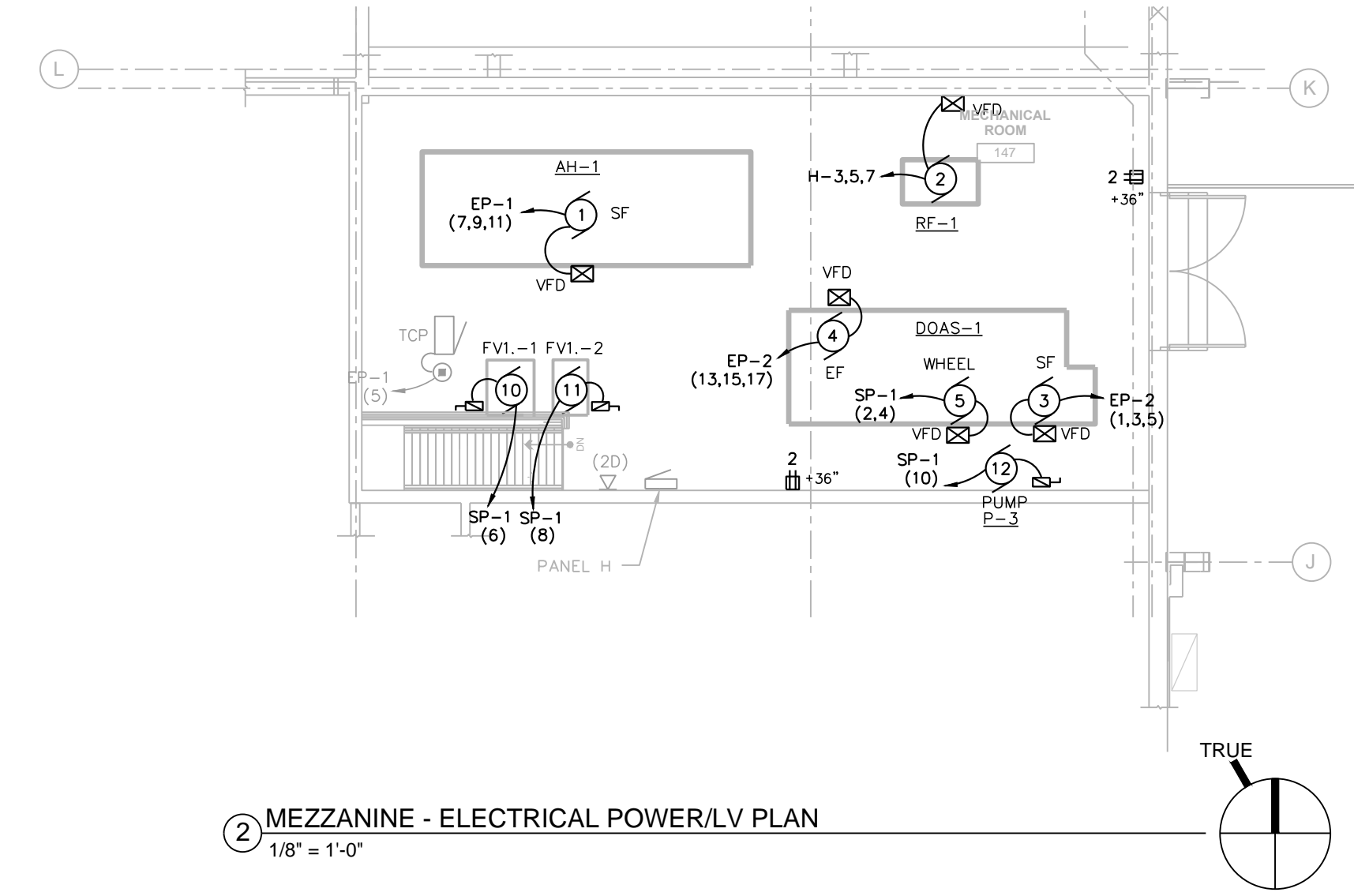
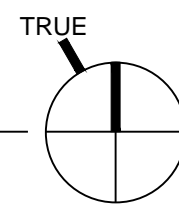
**UNIT B -
ELECTRICAL
POWER/LV
PLAN**

PROJECT #: H1620
SHEET NUMBER

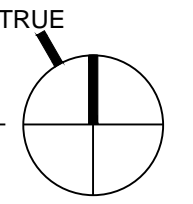
E101



1 UNIT B - ELECTRICAL POWER/LV PLAN
1/8" = 1'-0"



2 MEZZANINE - ELECTRICAL POWER/LV PLAN
1/8" = 1'-0"

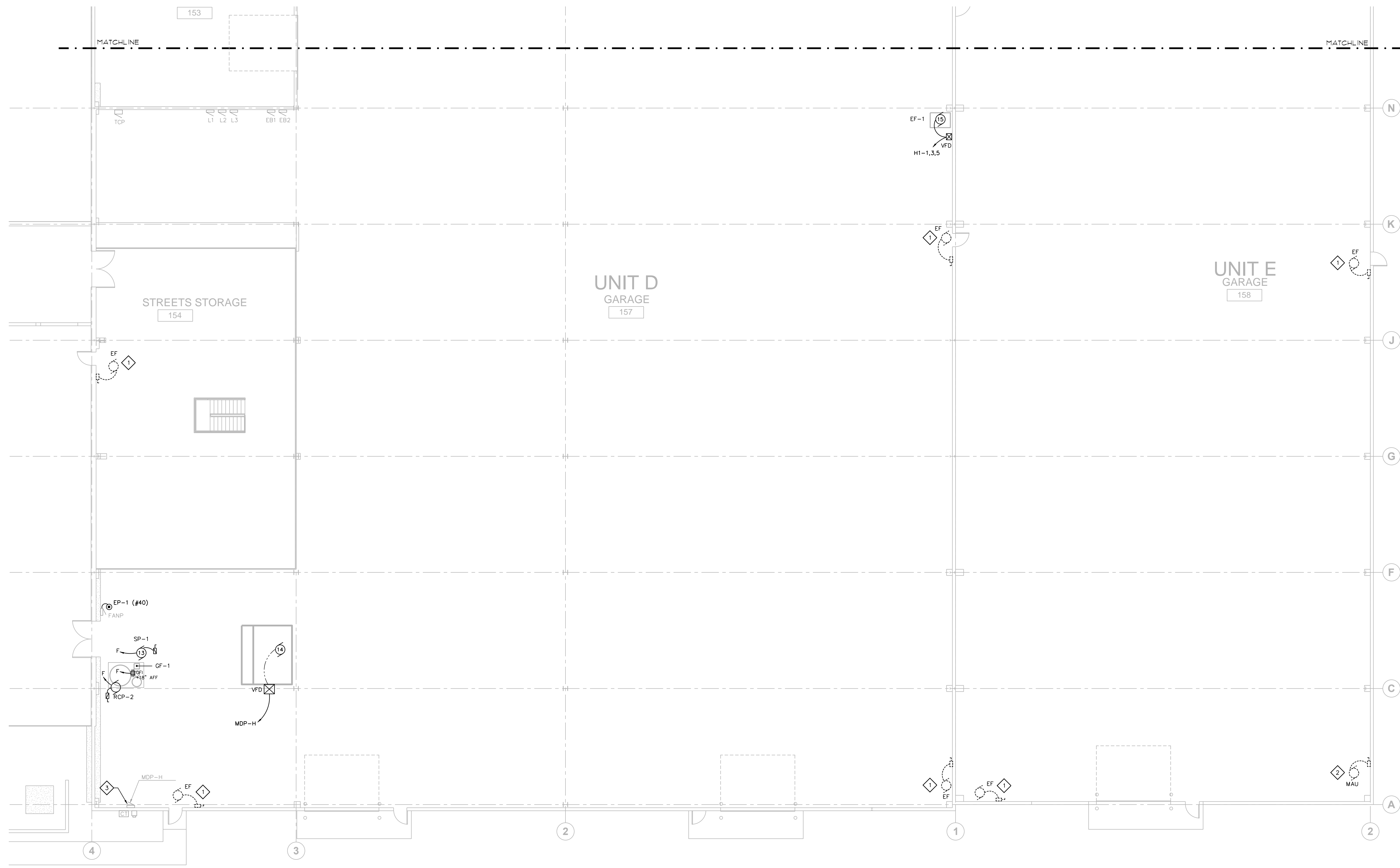


ELECTRICAL GENERAL NOTES:

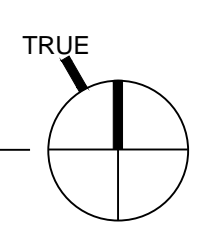
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2. COORDINATE AND SCHEDULE ALL ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE FINAL DEVICE LAYOUT AND MOUNTING HEIGHTS WITH GENERAL CONTRACTOR.
5. ALL RACEWAYS ARE TO BE CONCEALED IN FINISHED AREAS. MECHANICAL & UTILITY AREAS MAY USE SURFACE CONDUIT SYSTEMS.
6. ALL RECEPTACLES CIRCUITED TO STANDBY PANEL SP-1 OR EXISTING PANELS D1 & D2 UNLESS NOTED OTHERWISE.
7. BLANK OFF ALL UNUSED SWITCH BOX WITH SS BLANK PLATE.
8. DOOR ACCESS CABLING AND EQUIPMENT BY ELECTRICAL TRADE; REFER TO SPECIFICATION SECTION 28 13 00 FOR FURTHER REQUIREMENTS.
9. REFER TO SHEET E400 FOR CABLE & POWER RISERS & RACEWAY REQUIREMENTS.
10. VFD'S PROVIDED BY HVAC TRADE, WIRED BY ELECTRICAL TRADE.
11. GENERAL CONTRACTOR TO CUT AND PATCH FLOOR FOR INSTALLATION OF ANY UNDERFLOOR (UF) CONDUITS.

ELECTRICAL PLAN NOTES:

1. WIRELESS ACCESS POINT: PROVIDE DATA CABLE AND 10 FT COILED ABOVE CEILING WITH CAT 6 RJ45 TERMINATION FOR FUTURE WIRELESS DEVICE.
2. RECESS ACTIVATED WALL BOX WB-1: REFER TO E300 ELECTRICAL SCHEDULES & E400 ELECTRICAL RISERS & DETAILS FOR ELECTRICAL FURTHER REQUIREMENTS. EXTEND CABLE FROM HMI OUTLET AT WB-1 TO WALL STATION HMI OUTLET.
3. DOOR ACCESS SYSTEM: DOOR ACCESS SYSTEM CONTROL PANEL, POWER PANEL, CARD READER, DOOR RELEASE AND REMOTE DOOR RELEASE BUTTONS ARE PART OF THE DOOR ACCESS SYSTEM PROVIDED AND INSTALLED BY ELECTRICAL TRADE (KEYSCAN). ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SYSTEM REQUIRED FOR LOW-VOLTAGE CABLING PER DETAILS ON SHEET E400.
4. EXTEND 100 AMP FEEDER FROM PANEL EP-1 (25,27,29) TO NEW PANEL SP-1 AS INDICATED. REFER TO SHEET E400 FOR FURTHER REQUIREMENTS.
5. COORDINATE RECEPTACLE LOCATION WITH PLUMBING TRADE FOR EWC INSTALLATION.
6. EXTEND NEW DATA CABLES (CAT6) FROM WALL STATIONS TO EXISTING PATCH PANEL AT DATA RACK. REFER TO DIV 27 SPECIFICATIONS FOR FURTHER REQUIREMENTS.
7. VERIFY FINAL LOCATION OF FLUSH FLOOR BOXES WITH OWNER & FINAL FURNITURE PLAN PRIOR TO INSTALLING.
8. ARRANGE FOR UF CONDUIT FLOOR CUT AND EXTEND V/D RACEWAY TO ABOVE CEILING STUB WITH INSULATED BUSHING.



1 UNIT D/E SOUTH - ELECTRICAL PLAN
3/32" = 1'-0"



- ELECTRICAL GENERAL NOTES:**
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 2. COORDINATE AND SCHEDULE ALL ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
 3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
 4. REFER TO SHEET E400 FOR CABLE & POWER RISERS & RACEWAY REQUIREMENTS.
 5. VFD'S PROVIDED BY HVAC TRADE, WIRED BY ELECTRICAL TRADE.
 7. ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.
 8. ADD ALTERNATE #2: UNIT D & E GARAGE VENTILATION SYSTEM.
- ELECTRICAL PLAN NOTES:**
- ◇ DISCONNECT POWER TO EXISTING EXHAUST FANS. REMOVE EXISTING CONDUIT, CONDUCTORS AND RACEWAY SYSTEM. COORDINATE WORK WITH HVAC TRADE.
 - ◇ DISCONNECT POWER TO EXISTING MAKE-UP AIR UNIT. REMOVE EXISTING CONDUCTORS, DISCONNECTS AND RELATED BACK TO PANELBOARD.
 - ◇ INSTALL NEW 100/3 CB AND EXTEND NEW 100A 3Φ FEEDER TO PANEL 'H1'-SEE E103 PLAN.

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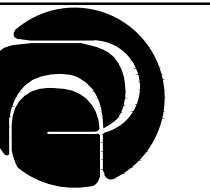
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MADISON, WI 53704

ISSUANCES:	
BID SET	5-15-2019

**UNIT D/E
SOUTH -
ELECTRICAL
PLAN**

PROJECT #: H1620
SHEET NUMBER
E102



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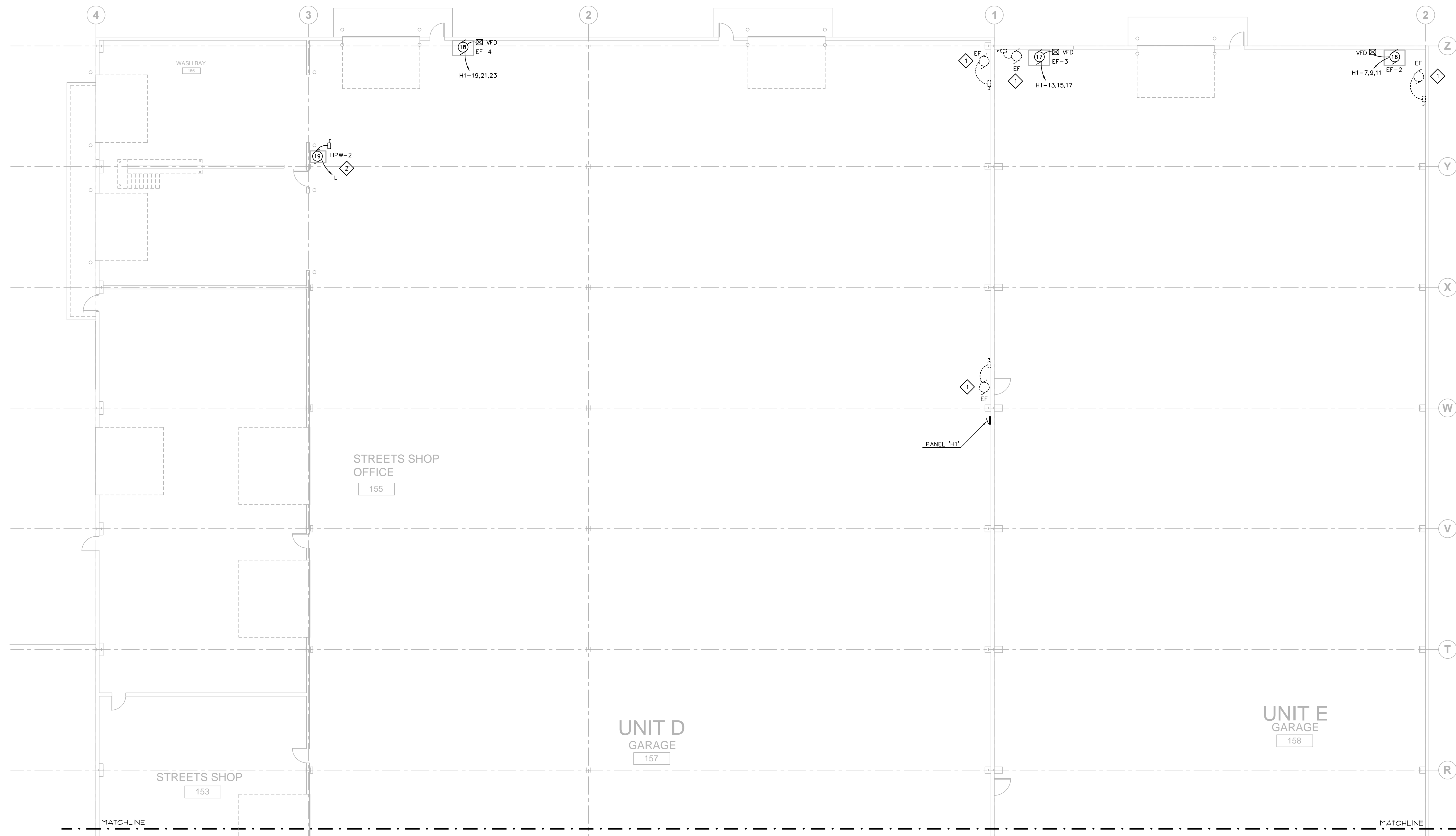
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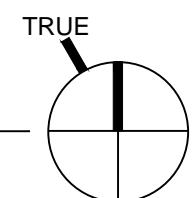
UNIT D/E
NORTH -
ELECTRICAL
PLAN

PROJECT #: H1620
SHEET NUMBER

E103



1 UNIT D/E NORTH - ELECTRICAL PLAN
3/32" = 1'-0"



ELECTRICAL GENERAL NOTES:

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2. COORDINATE AND SCHEDULE ALL ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. REFER TO SHEET E400 FOR CABLE & POWER RISERS & RACEWAY REQUIREMENTS.
5. VFD'S PROVIDED BY HVAC TRADE, WIRED BY ELECTRICAL TRADE.
7. ADD ALTERNATE #1: SOLAR HW SYSTEM INCLUDING WASH BAY PIPING AND EQUIPMENT.
8. ADD ALTERNATE #2: UNIT D & E GARAGE VENTILATION SYSTEM.

ELECTRICAL PLAN NOTES:

- 1 DISCONNECT POWER TO EXISTING EXHAUST FANS. REMOVE EXISTING CONDUIT, CONDUCTORS AND RACEWAY SYSTEM. COORDINATE WORK WITH HVAC TRADE.
- 2 COORDINATE FEEDER & DISCONNECT SWITCH FOR HIGH PRESSURE WASHER HPW-2 WITH VENDOR & PLUMBING TRADE.
- 3 INSTALL NEW 100/3 CB AND EXTEND NEW 100A 3ø FEEDER TO PANEL 'H1'-SEE E103 PLAN.

TAG	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱		
PANEL NO.	EP-1	H	EP-2	EP-2	SP-1	MOP-H	MOP-H	EP-1	EP-2	SP-1	SP-1	SP-1	F	MDP-H	H1	H1	H1	H1	L	
CIRCUIT	7,9,11	3,5,7	1,3,5	13,15,17	2,4	19,21,23	25,27,29	13,15,17	19,21,23	6	8	10	F.V.	31,33,35	1,3,5	7,9,11	13,15,17	19,21,23	F.V.	
BREAKER	60	15	15	15	15	80	35	15	15	15	15	15	15	100	15	15	15	15	40	
POLE	3	3	3	3	2	3	3	3	3	1	1	1	1	3	3	3	3	3	3	
WIRING NO.	3+G (#10)	3+G (#12)	3+G (#12)	3+G (#12)	2+G (#12)	3+G (#8)	3+G (#10)	3+G (#12)	3+G (#12)	2+G (#12)	2+G (#12)	2+G (#12)	2+G (#12)	3+G (#8)	3+G (#12)	3+G (#12)	3+G (#12)	3+G (#12)	3+G (#10)	
TYPE	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	THHN/CU	
SIZE	#6	#12	#12	#12	#12	#4	#8	#12	#12	#12	#12	#12	#12	#3	#12	#12	#12	#12	#8	
COND.	3/4"	1/2"	1/2"	1/2"	1/2"	1"	3/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1/2"	1/2"	1/2"	1/2"	3/4"	
ELECTRICAL HP (KW)	10	1-1/2	3	3	1/2	(49.0)	(20.8)	2	2	1/2	1/3	1/12	1/6	50	1	3	3	3	6	
VOLT	208	208	208	208	208	480	480	208	208	115	115	115	115	480	480	480	480	480	208	
PHASE	3	3	3	3	1	3	3	3	3	1	1	1	1	3	3	3	3	3	3	
FLA (MCA)	32.2 (40.3)	6.9 (8.6)	11.0 (13.8)	11.0 (13.8)	5.4 (6.8)	59 (65)	25 (28)	4.4 (5.5)	4.4 (5.5)	7.7 (9.6)	5.0 (6.3)	1.4 (1.8)	3.0 (3.8)	65 (81)	2.1 (2.6)	4.8 (6.0)	4.8 (6.0)	4.8 (6.0)	20 (25)	
STARTER TYPE	W/VFD	W/VFD	W/VFD	W/VFD	W/VFD	W/UNIT	W/UNIT	N.R.	N.R.	W/UNIT	W/UNIT	RELAY	N.R.	W/VFD	W/VFD	W/VFD	W/VFD	W/VFD	W/UNIT	
SIZE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BY	H.C.	H.C.	H.C.	H.C.	H.C.	H.C.	H.C.	-	-	H.C.	H.C.	T.C.C.	-	-	H.C.	H.C.	H.C.	H.C.	P.C.	
CONTROL TYPE	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	BAS	W/UNIT
BY	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	T.C.C.	P.C.
DISCONNECT TYPE	W/VFD	W/VFD	W/VFD	W/VFD	W/VFD	W/UNIT	W/UNIT	NEMA 1 HD	NEMA 1 HD	NEMA 1 M.S.	NEMA 1 M.S.	NEMA 1 M.S.	NEMA 1 M.S.	NEMA 1 HD	W/VFD	W/VFD	W/VFD	W/VFD	NEMA 1 HD	
SIZE	60	30	30	30	30	100	15	30	30	15	15	15	15	100	30	30	30	30	60	
FUSE	50	10	17.5	17.5	7.0	-	-	10	10	TU (15)	TU (10)	TU (3)	TU (6)	-	8	8	8	8	-	
BY	H.C.	H.C.	H.C.	H.C.	H.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	E.C.	H.C.	H.C.	H.C.	H.C.	H.C.	E.C.	
REMARKS	AIR HANDLING UNIT SF-1	RELIEF FAN RF-1	SUPPLY FAN SF-1	RELIEF FAN DOAS-1	WHEEL DOAS-1	AIR-COOLED CONDENSING UNIT CU-1	AIR-COOLED CONDENSING UNIT CU-2	HW PUMP P-1	HW PUMP P-2	FAN-POWERED VAV BOX FV1-1	FAN-POWERED VAV BOX FV1-2	HC COIL PUMP P-3	SOLAR PUMP SP-3	MAKE-UP AIR UNIT MAU-1	EXHAUST FAN EF-1	EXHAUST FAN EF-2	EXHAUST FAN EF-3	EXHAUST FAN EF-4	HIGH PRESSURE WASHER HPW-2	

FLOOR BOX SCHEDULE

TAG	TYPE	SERVICE CAPACITY	MFGR. & MODEL	REMARKS		
		RECEPTACLES	DATA OUTLETS	VOICE OUTLETS		
FB1	SURFACE ACTIVATED MULTI-SERVICE	2	4	-	WIREMOLD/WALKER 881(BOX) +RP4CTCBK (COVER)	(1)(2)(3) FLANGED COVER, CONCRETE POUR BOX

REMARKS:
(1) PROVIDE MULTI-SERVICE INSERT ACCESSORIES AS SCHEDULED FOR SERVICE.
(2) ARCHITECT TO SELECT FINAL FINISHES.
(3) PROVIDE DIVIDER PLATE (POWER/LV) - 881 DIV.

WALL BOX SCHEDULE

TAG	TYPE	SERVICE CAPACITY	MFGR. & MODEL	REMARKS			
		RECEPTACLES	DATA OUTLETS	HDMI OUTLETS	TV OUTLETS		
WB-1	RECESS ACTIVATED MULTI-SERVICE	1	2	2	1	LEGRAND/WIREMOLD EFSB2 (BOX)	(1)(2)(3) LCD SCREEN - 2-GANG BOX RECESSED

REMARKS:
(1) PROVIDE MULTI-SERVICE INSERT ACCESSORIES AS SCHEDULED FOR SERVICE & SHOWN ON DRAWINGS.
(2) PROVIDE ONE (1) 1-1/4" CONDUIT STUBS TO CEILING SPACE PER BOX FOR LV CABLING.
(3) PROVIDE ONE (1) 3/4" CONDUIT TO HDMI OUTLET AT 18" AFF BELOW WALL BOX.

PANEL "SP-1"									
AMPS MAIN		VOLTS PHASE		MOUNTING LOCATION		SURFACE ELEGT		AIC = 10K	
BRKR	DESCRIPTION	CIRCUIT	PHASELOADS	CIRCUIT	DESCRIPTION	BRKR	DESCRIPTION	CIRCUIT	DESCRIPTION
A	P	WATT	NO. A B C	NO. WATT	A	P			
20	1	LTS 111,129	630 1 1190	2	560 DOAS-1 WHEEL	15	2		
20	1	LTS 112	750 3	4	560 DOAS-1 WHEEL	15	2		
20	1	LTS CORR 109,110,140,127	980 5	1310	6	890 FV1.1	15	1	
20	1	LTS 113,114,115-117,118	950 7	1530	8	580 FV1.2	15	1	
20	1	LTS 119,121	800 9	960	10	160 P-3	15	1	
20	1	LTS 118,122-125	750 11	1470	12	720 RECEIPT 111,129	20	1	
20	1	LTS 132,134,136,139	880 13	1600	14	720 RECEIPT 112	20	1	
20	1	LTS 128,133,146,142,143	960 15	1860	16	900 RECEIPT 109 CORR,123	20	1	
20	1	LTS MEZZ 142	410 17	1490	18	1080 RECEIPT 127 CORR	20	1	
20	1	RECEPT 122	720 19	1620	20	900 RECEIPT 114	20	1	
20	1	RECEPT 125	720 21	1440	22	720 RECEIPT 114	20	1	
20	1	RECEPT 124	720 23	1260	24	540 RECEIPT 115	20	1	
20	1	RECEPT 109 WORK STATION	360 25	900	26	540 RECEIPT 116	20	1	
-	-	-	27	540	28	540 RECEIPT 117	20	1	
-	-	-	29	900	30	900 RECEIPT 118	20	1	
-	-	-	31	720	32	720 RECEIPT 113	20	1	
-	-	-	33	900	34	900 RECEIPT 113,119	20	1	
-	-	-	35	720	36	720 RECEIPT 121	20	1	
-	-	-	37	900	38	700 RECEIPT 121	20	1	
-	-	-	39	720	40	720 RECEIPT 121	20	1	
-	-	-	41	720	42	720 RECEIPT 121 FB	20	1	
ESTIMATED DEMAND LOAD:			22,240 WATTS	61.8 AMPS	TOTAL CONNECTED LOADS:		24,620 WATTS	68.4 AMPS	

PANEL "H1"									
AMPS MAIN		VOLTS PHASE		MOUNTING LOCATION		SURFACE ELEGT		AIC = 18K	
BRKR	DESCRIPTION	CIRCUIT	PHASELOADS	CIRCUIT	DESCRIPTION	BRKR	DESCRIPTION	CIRCUIT	DESCRIPTION
A	P	WATT	NO. A B C	NO. WATT	A	P			
15	3	EF-1	580 1	580	4				
-	-	EF-1	580 3	580	4				
-	-	EF-1	580 5	580	6				
15	3	EF-2	1330 7	1330	8				
-	-	EF-2	1330 9	1330	10				
-	-	EF-2	1330 11	1330	12				
15	3	EF-3	1330 13	1330	14				
-	-	EF-3	1330 15	1330	16				
-	-	EF-3	1330 17	1330	18				
15	3	EF-4	1330 19	1330	20				
-	-	EF-4	1330 21	1330	22				
-	-	EF-4	1330 23	1330	24				
-	-	-	25		26				
-	-	-	27		28				
-	-	-	29		30				
ESTIMATED DEMAND LOAD:			13,710 WATTS	16.5 AMPS	TOTAL CONNECTED LOADS:		13,710 WATTS	16.5 AMPS	

ELECTRICAL SYMBOL SCHEDULE

MOUNTING	SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION
		EQUIPMENT AND WIRING			LIGHTING FIXTURES
		DIRECT EQUIPMENT CONNECTION			LED: SURFACE/PENDANT
		MOTOR CONNECTION-SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.			LED: RECESSED
		JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS			LED: RECESSED WALL WASHER W/BATTERY BACK-UP
		FUSE HOLDER W/FUSE/STAP AND TOGGLE SWITCH (1/2 HP MOTORS AND UNDER)			LED: SURFACE WALL-MTD
		SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY "F"-FUSED)			LED: SURFACE WALL-MTD W/BATTERY BACK-UP
		MANUAL STARTER			LED: RECESSED WALL-MTD
		MOTOR STARTER-MAGNETIC UNLESS NOTED OTHERWISE			LED: SURFACE, CEILING MOUNTED
		COMB. MOTOR STARTER/ FUSED DISCONNECT			LED: SURFACE, WALL MOUNTED
		ELECTRICAL POWER PANEL			EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS
		DOUBLE TUB ELECTRICAL POWER PANEL			MOTOR STARTER-MAGNETIC UNLESS NOTED OTHERWISE
		TIME SWITCH			EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED
		PHOTOCELL			TRACK LIGHTING
		LINE VOLTAGE T-STAT BY H.C. (CONN. BY E.C.)			SWITCHES
					SINGLE POLE
					THREE WAY
					FOUR WAY
					SWITCH AND DUPLEX RECEPTACLE IN TWO GANG BOX
					SPEED CONTROLLER SWITCH SUPPLIED BY H.C. INSTALLED BY E.C.
					DIMMING SWITCH
					OCCUPANCY SENSOR CONTROLLED WALL SWITCH
					ELECTRICAL TIMER SWITCH (5-10-15-30 MIN)
					OCCUPANCY SENSOR: WALL OR CEILING MOUNTED -TAG
					RECEPTACLES
					DUPLEX: RECESSED - W.P. INDICATES WATERPROOF
					DUPLEX: SURFACE MTD
					DUPLEX: TOP HALF SWITCHED
					DUPLEX: SWITCHED
					TWO DUPLEX RECEPTS. IN TWO GANG BOX
					TWO DUPLEX RECEPTS. SURFACE MTD IN TWO GANG BOX
					DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION
					125V, 2P, 2W SINGLE RECEPTACLE
					250V, 2P, 3W SINGLE RECEPT - AMPS AS SHOWN ON DRAWINGS
					DUPLEX RECEPT, MOUNTED ABOVE CASEWORK BACKSPASH
					DUPLEX RECEPT, MOUNTED IN SPLASH BLOCK
					COMMUNICATION SYSTEMS
					TELEPHONE OUTLET IN WALL
					QTY VOICE
					DATA OUTLET
					QTY DATA
					VOICE/DATA OUTLET
					QTY VOICE, DATA
					VOICE/DATA OUTLET, MOUNTED ABOVE CASEWORK BACKSPASH
					QTY VOICE, DATA
					CABLE TV OUTLET
					QTY CATV
					HDMI OUTLET WALL-MTD
					QTY
					RECESSED WALL BOX DEVICE QTY
					WIRELESS ACCESS POINT SURFACE MTD (DATA OUTLET)
					FLUSH FLOOR BOX
					TYPE AS SCHEDULED
					FLUSH FLOOR BOX POKE-THRU
					TYPE AS SCHEDULED

ABBREVIATIONS:
AH=AIR HANDLING UNIT
DOAS=DEDICATED OUTSIDE AIR SYSTEM
EF=EXHAUST FAN
EWC=ELECT. WATER COOLER
MAU=MAKE-UP AIR UNIT
P=PUMP
RF=RELIEF FAN
UH=UNIT HEATER

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ISSUANCES:

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ELECTRICAL SCHEDULES

PROJECT #: H1620
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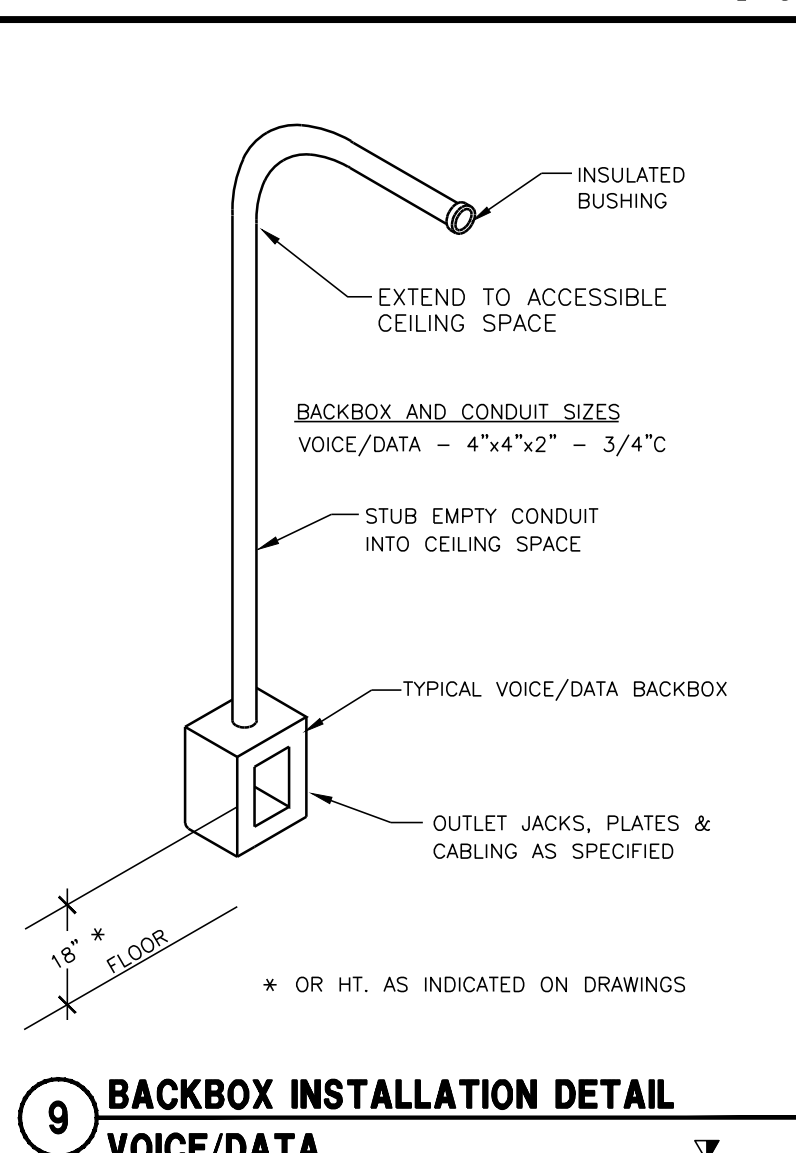
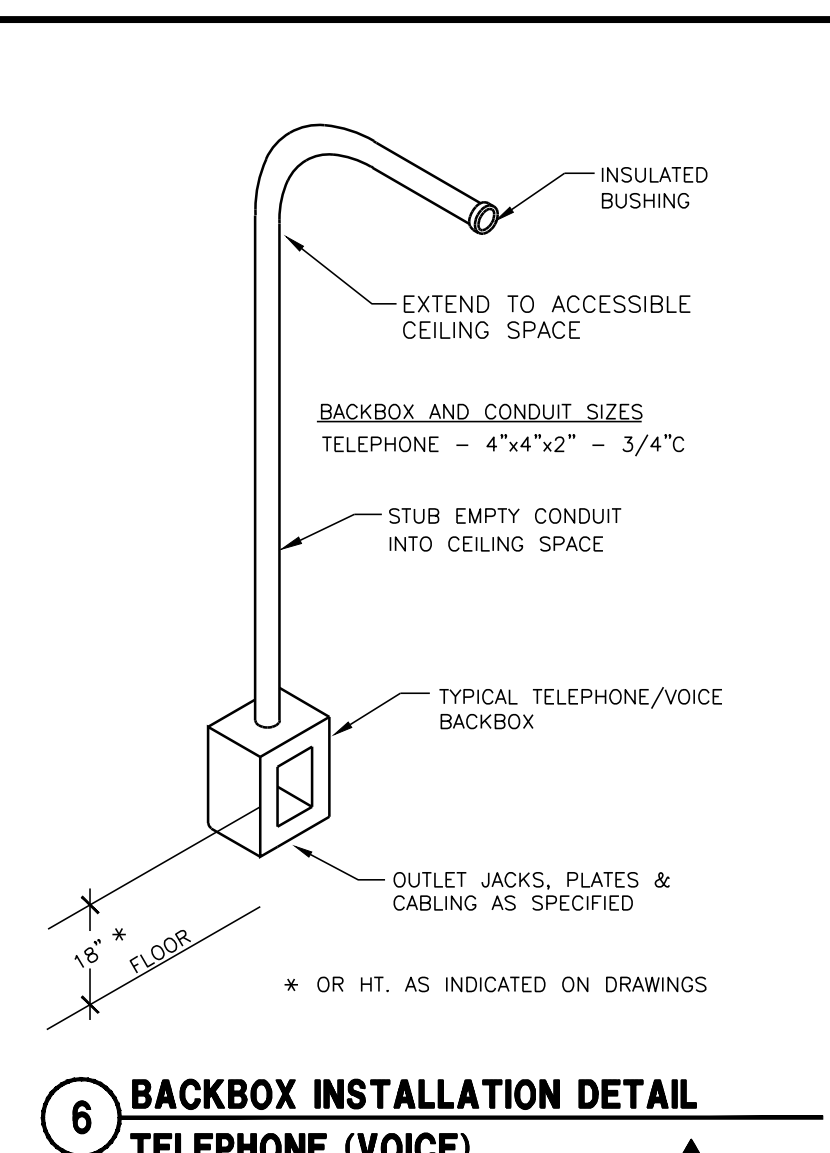
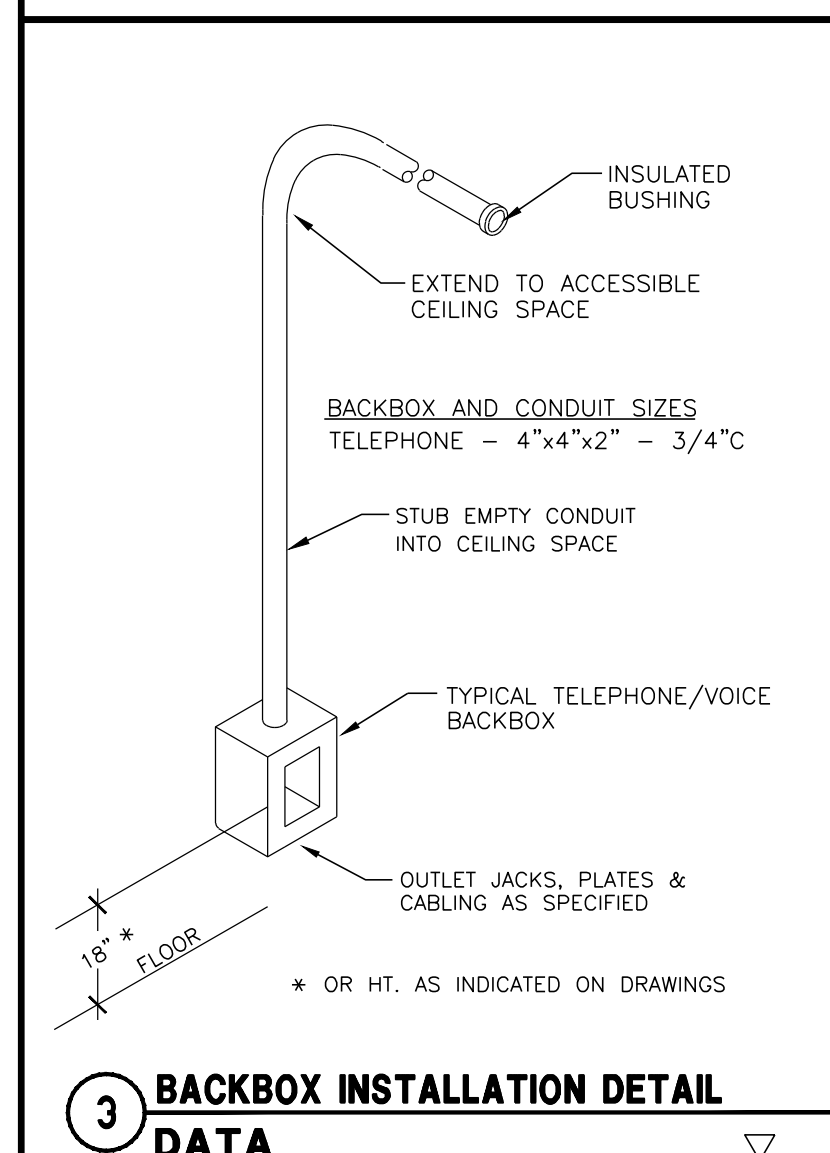
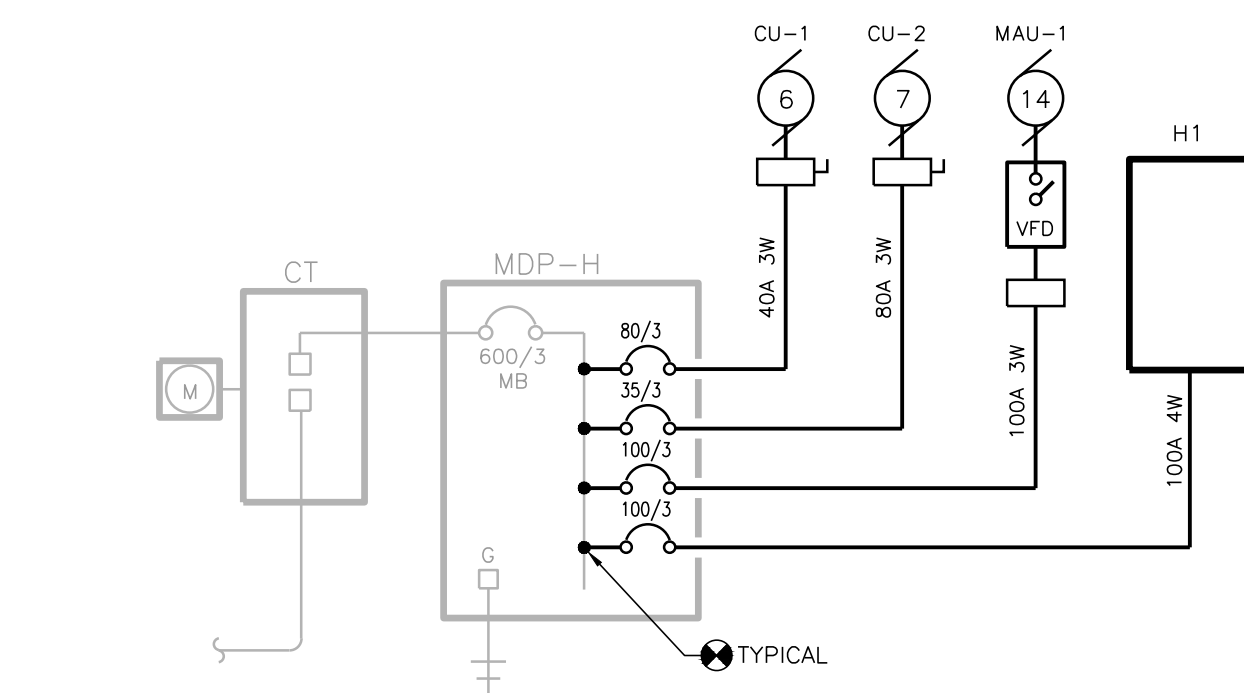
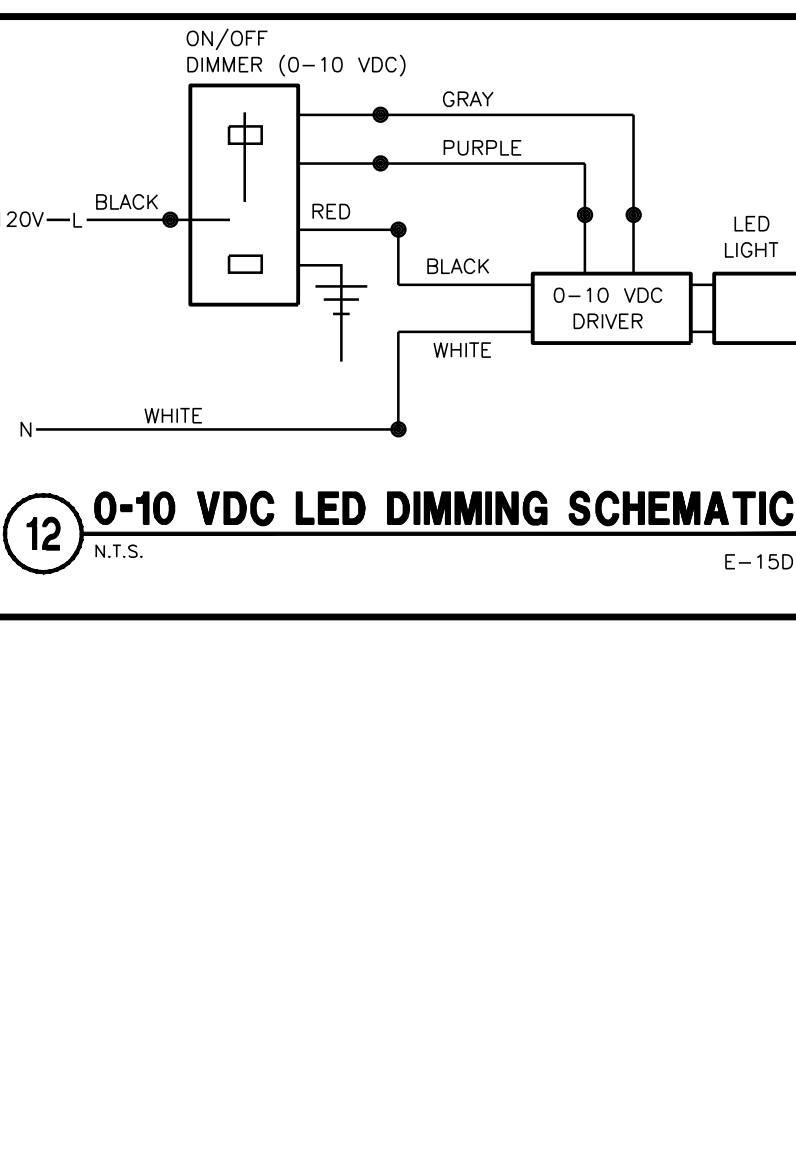
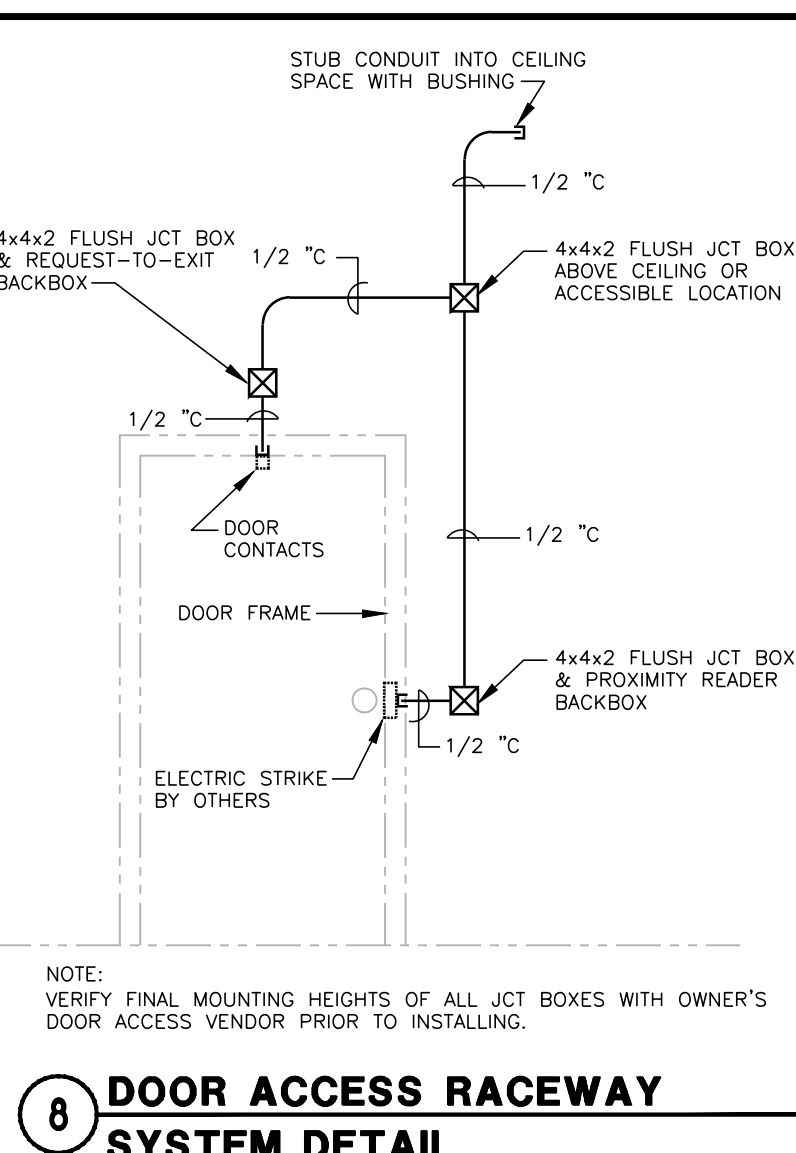
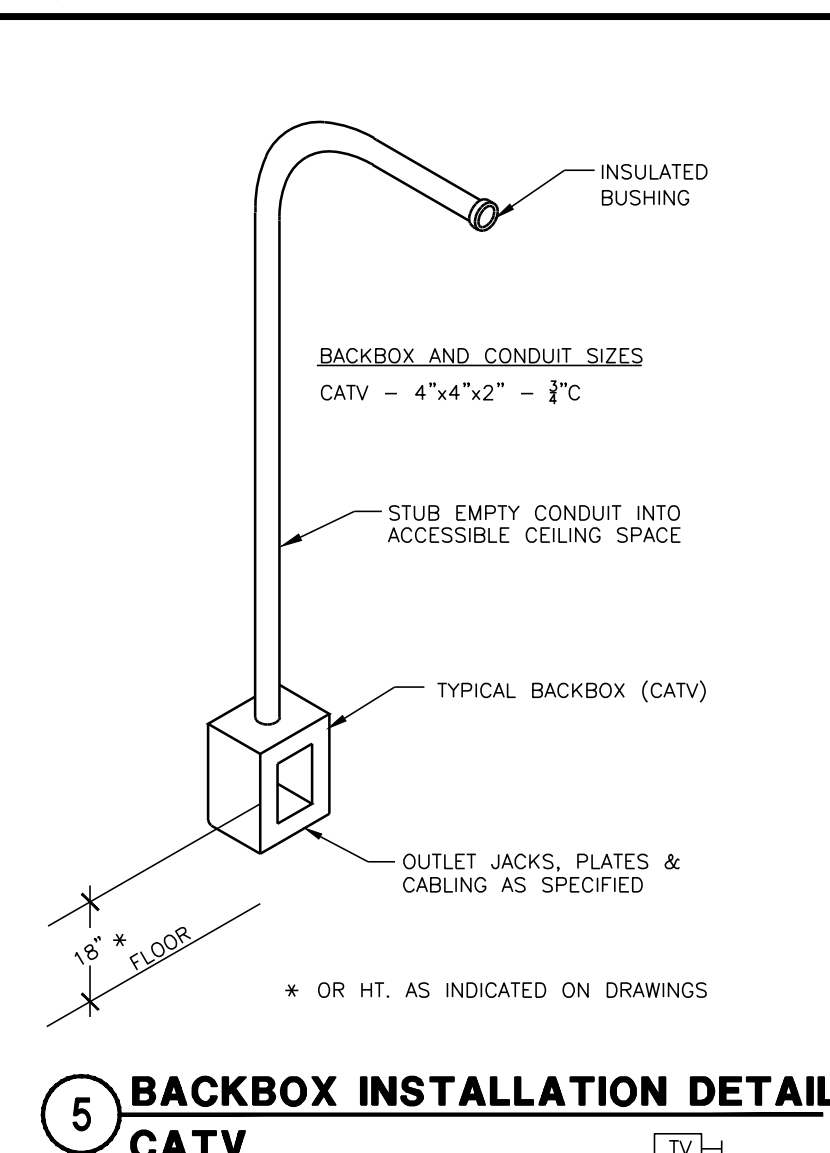
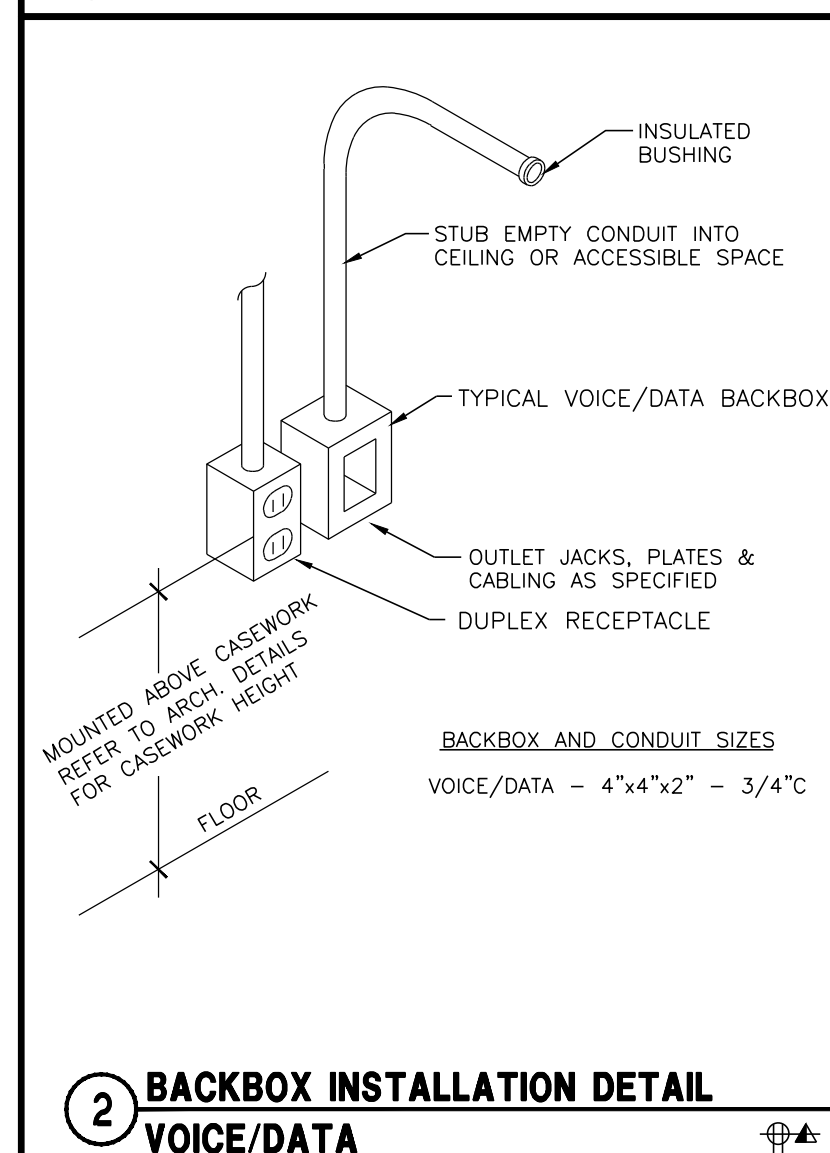
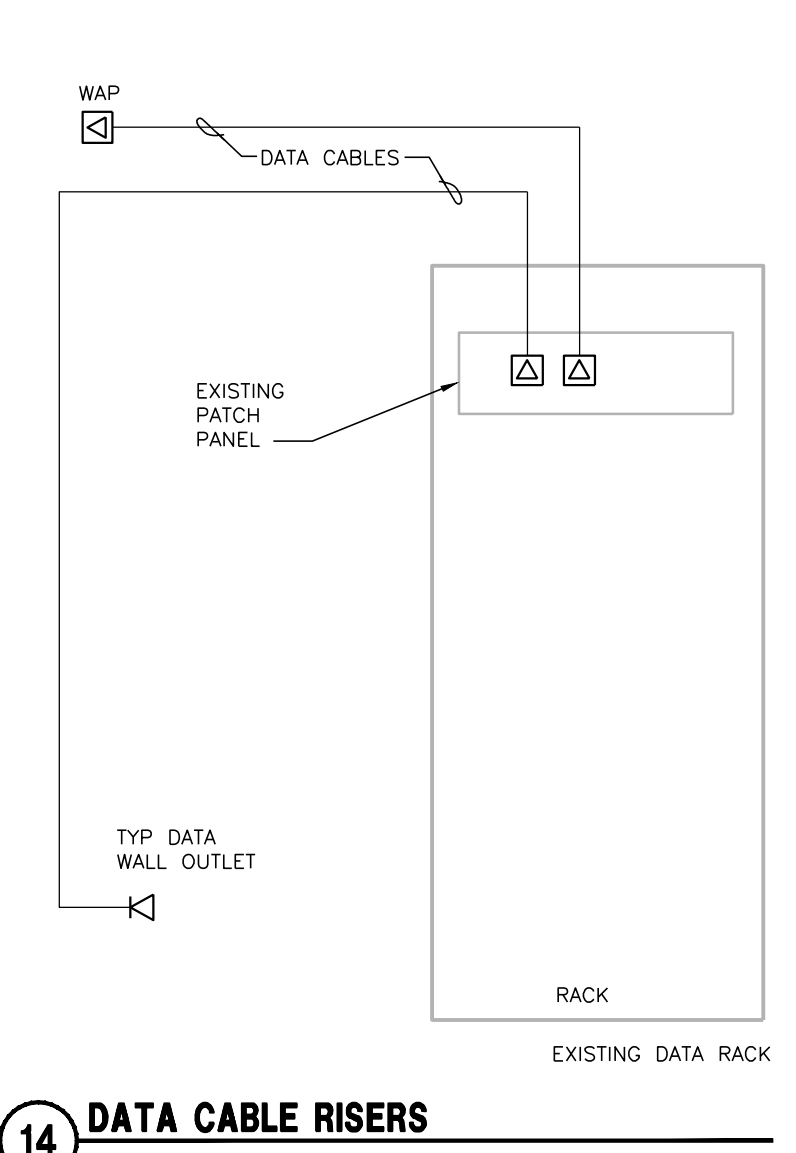
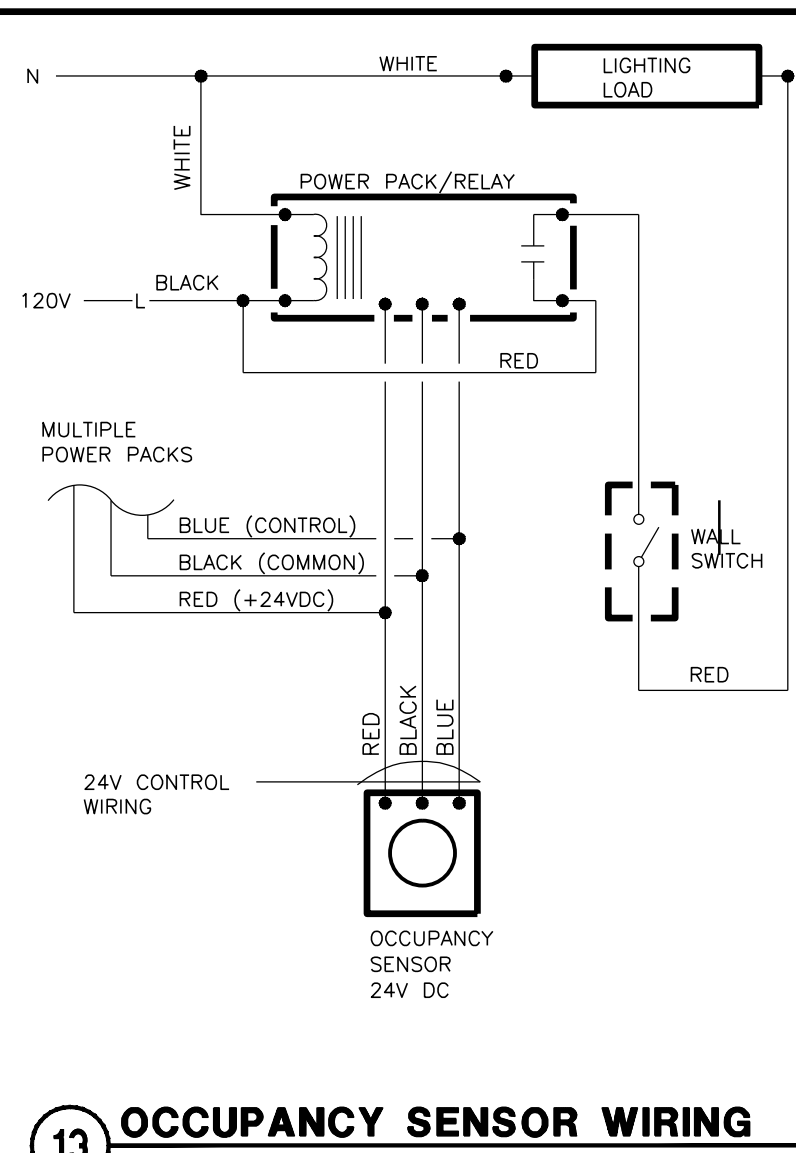
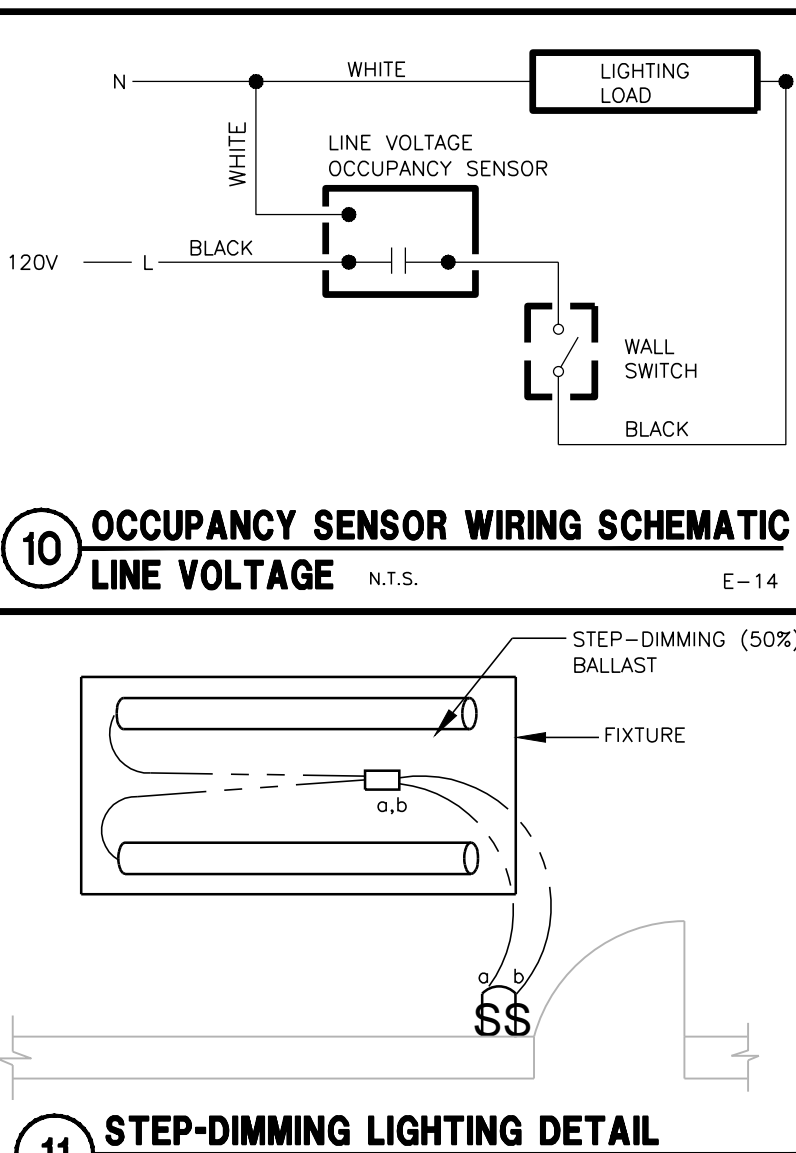
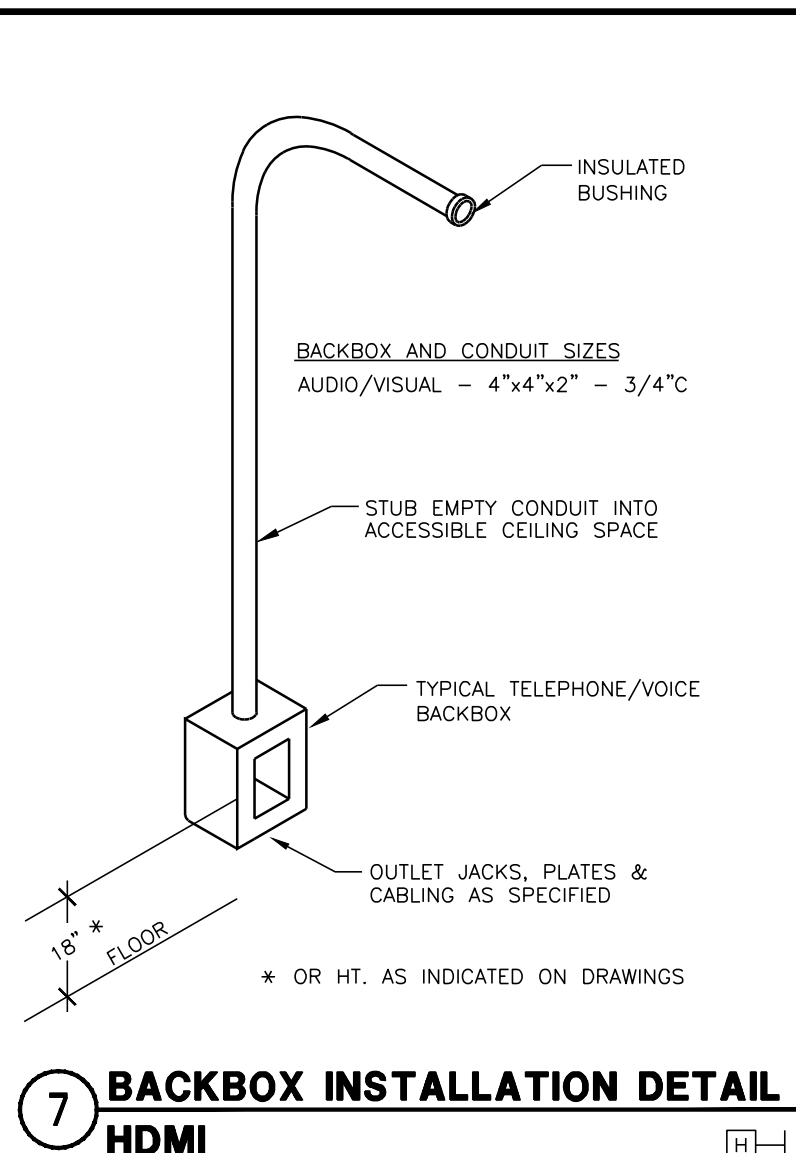
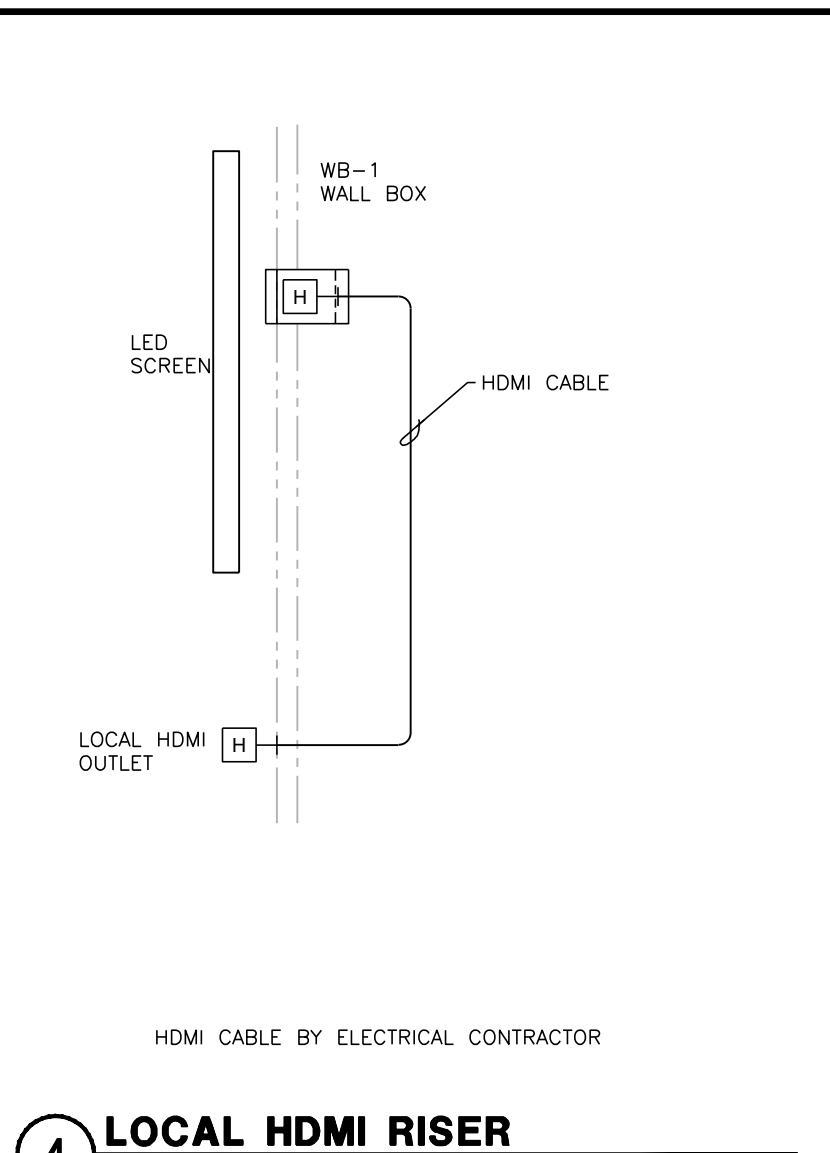
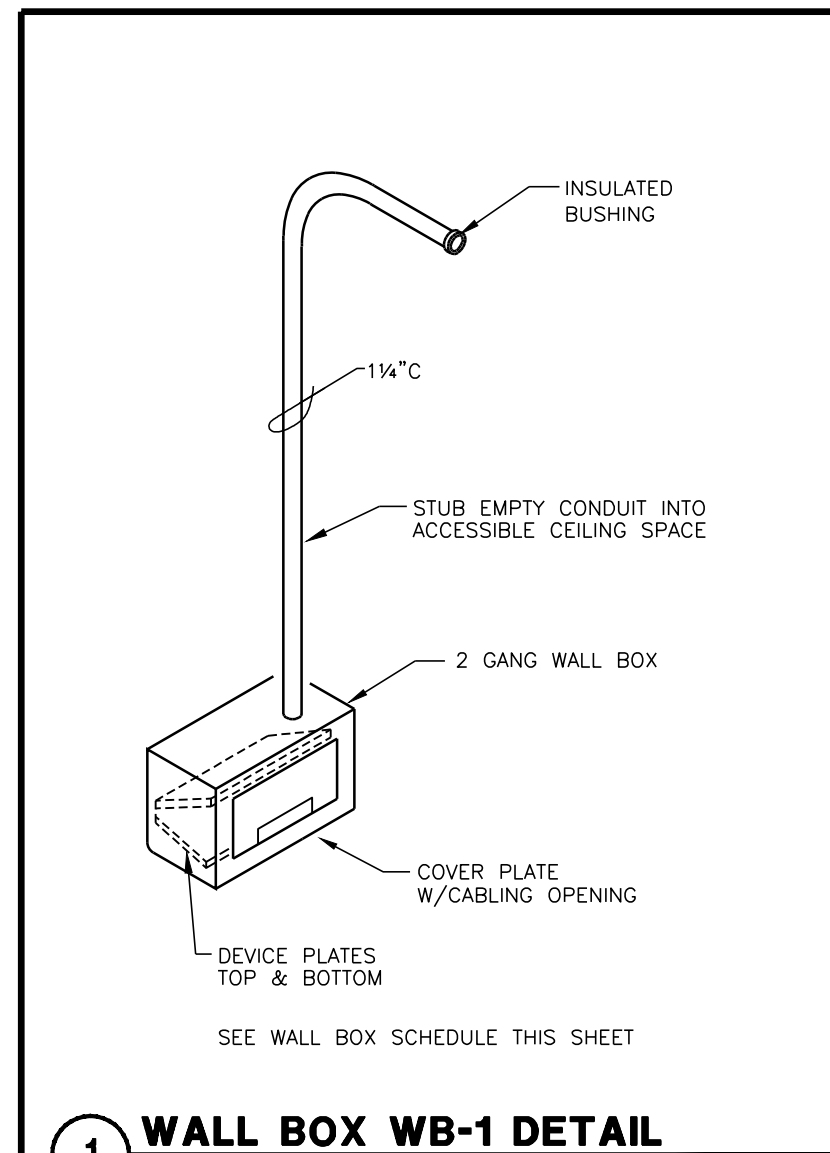
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ELECTRICAL
RISERS &
DETAILS

PROJECT #: H1620
SHEET NUMBER

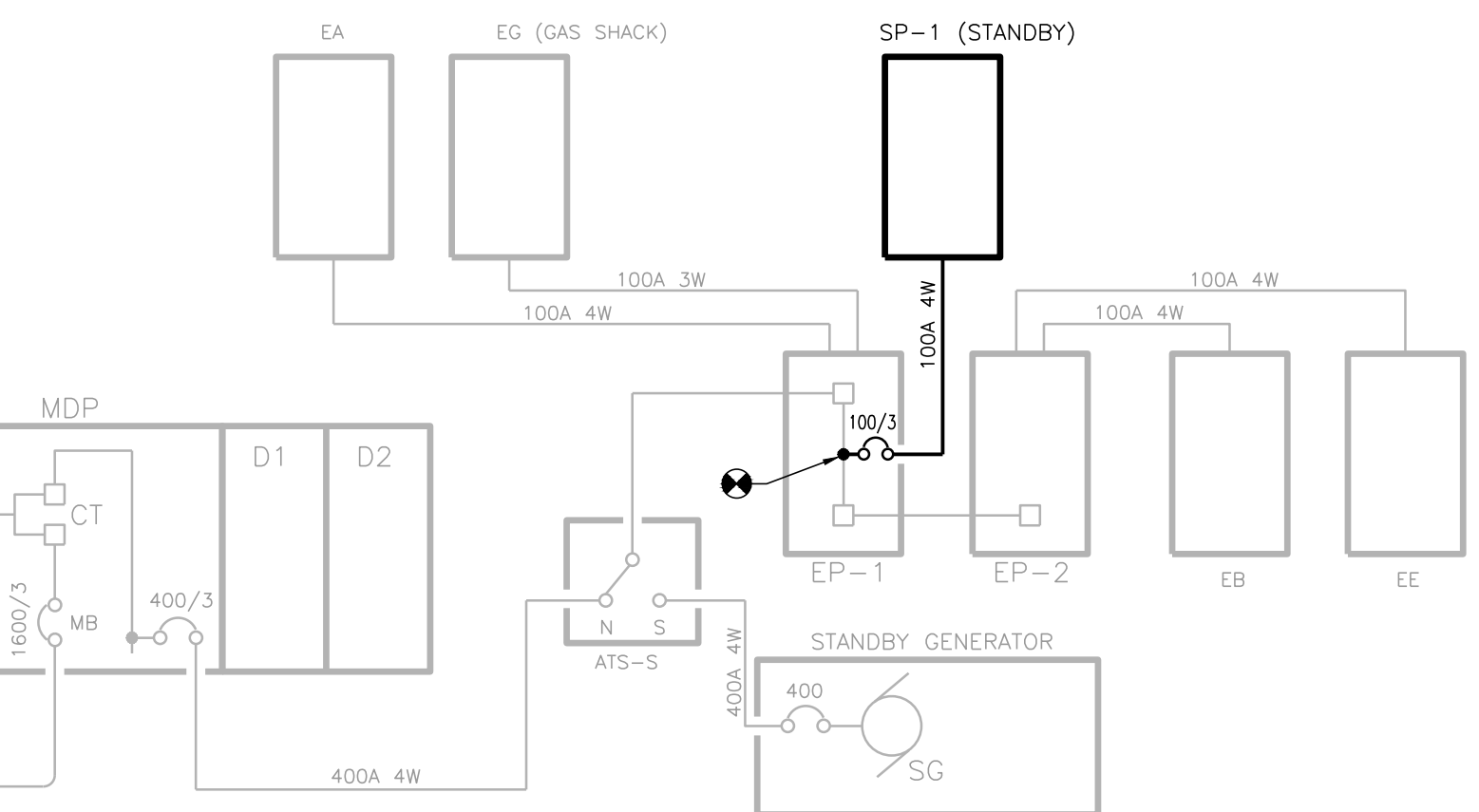
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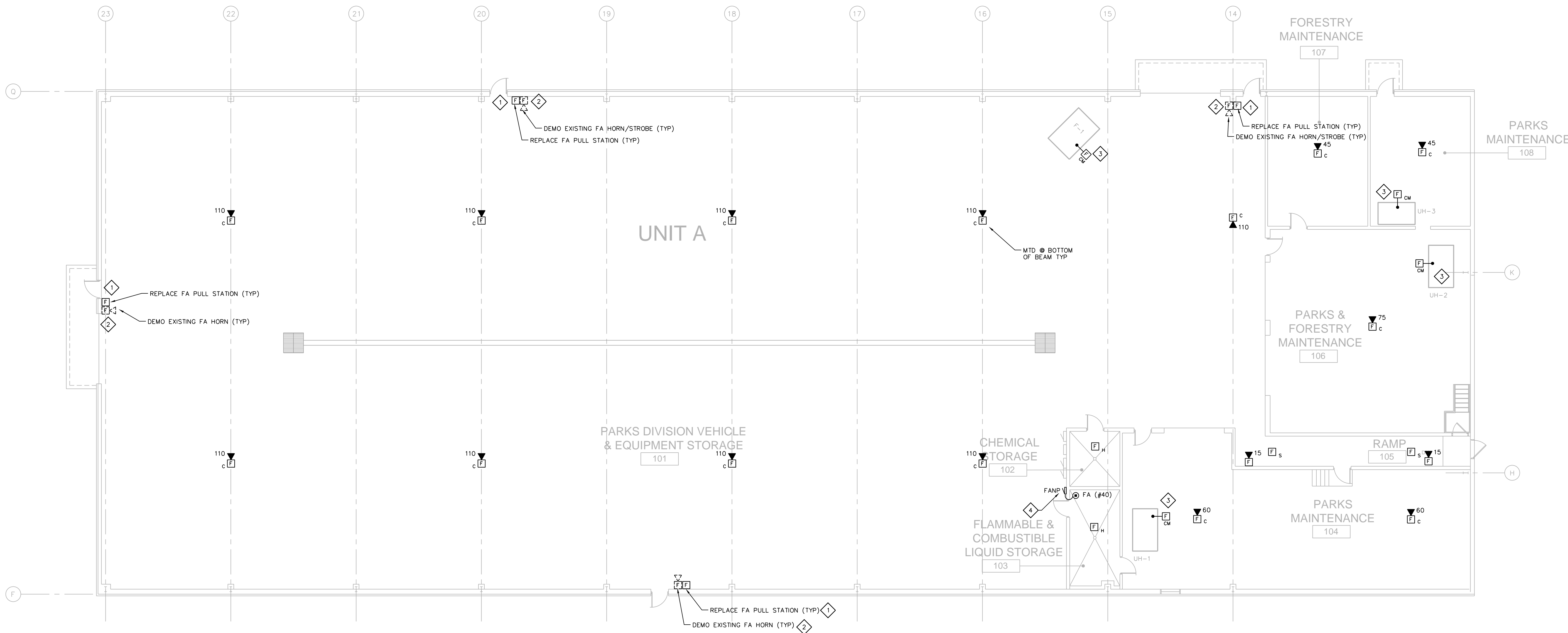
COPPER FEEDER SCHEDULE				
FEEDER AMPERAGE	CONDUCTOR SIZE (AWG/KCMIL)		MIN CONDUIT SIZE	
	Ø & N	GRD	(3)&(3G)	(4)&(4G)
30A	#10	#10	3/4"	3/4"
40A	#8	#10	3/4"	3/4"
50A	#8	#10	3/4"	3/4"
60A	#6	#10	3/4"	1"
80A	#4	#8	1"	1-1/4"
100A	#3	#8	1"	1-1/4"
125A	#1	#6	1-1/4"	1-1/2"
150A	#1/0	#6	1-1/2"	1-1/2"
175A	#2/0	#6	1-1/2"	2"
200A	#3/0	#6	2"	2"
225A	#4/0	#4	2"	2-1/2"
250A	#250	#4	2"	2-1/2"
300A	#350	#4	2-1/2"	3"
350A	#500	#3	3"	3-1/2"
400A	(2) #3/0	(2) #3	(2) 2"	(2) 2-1/2"
600A	(2) #350	(2) #1	(2) 3"	(2) 3"

GENERAL NOTES:
1. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER TYPE THHN INSULATED CONDUCTORS AT 75°C (167°F).

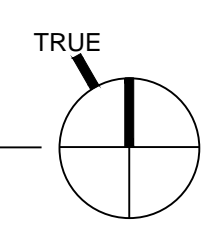
2 EXISTING ELECTRIC SERVICE RISER 600 AMP 277/480Y VOLT 3-PHASE



1 EXISTING ELECTRIC SERVICE RISER 1600 AMP 120/208Y VOLT 3-PHASE



1 UNIT A - FIRE ALARM PLAN
3/32" = 1'-0"



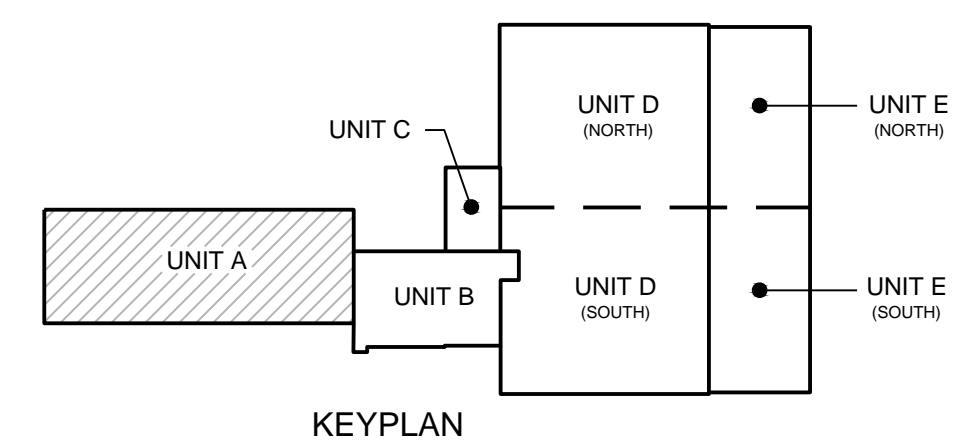
FIRE ALARM GENERAL NOTES:

1. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE FIRE ALARM DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF ELECTRICAL WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL FIRE ALARM AND ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE FINAL DEVICE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER PRIOR TO INSTALLING RACEWAYS.
5. ALL EXPOSED RACEWAYS IN EMT CONDUIT.
6. REUSE EXISTING RACEWAYS & CABLING CONFORMING TO NEW FIRE ALARM PLAN.
7. FREE AIR CABLING ONLY IN CONCEALED CEILING SPACES.

FIRE ALARM PLAN NOTES:

- 1. REPLACE FIRE ALARM PULL STATION WITH NEW ADDRESSIBLE DEVICE. REUSE EXISTING RACEWAYS & CABLING, IF CONFORMING TO NEW FA SYSTEM REQUIREMENT.
- 2. DISCONNECT AND REMOVE EXISTING FIRE ALARM HORN, CABLING, RACEWAY & RELATED BACK TO FIRST JCT BOX OR CONTROL PANEL. REMOVE ALL UNUSED CABLES & RACEWAYS NOT CONFORMING WITH NEW FA PLAN.
- 3. SHUT DOWN AIR HANDLER OPERATION UPON GENERAL FIRE ALARM ACTIVATION. COORDINATE CONTROL MODULE WIRING INTERFACE WITH HVAC TRADE.
- 4. NEW FIRE ALARM NOTIFICATION ALARM CIRCUIT POWER PANEL. ARRANGE FOR POWER FROM PANEL EA (STANDBY) CKT #40 WITH BATTERY BACKUP.

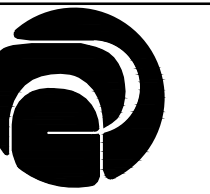
FIRE ALARM SYMBOL SCHEDULE		
MOUNTING HGT.	SYMBOL	DESCRIPTION
FIRE ALARM SYSTEMS		
48"	F	FIRE ALARM BREAK GLASS STATION
84"	F#	FIRE ALARM HORN WITH VISUAL STROBE LIGHT CANDELA-ILLUMINATION LEVEL
84"	F# _C	CEILING MOUNTED FIRE ALARM HORN WITH VISUAL STROBE LIGHT CANDELA-ILLUMINATION LEVEL
	F<	FIRE ALARM HORN
	F#	FIRE ALARM STROBE CANDELA-ILLUMINATION LEVEL
	F _S	FIRE ALARM SMOKE DETECTOR-CLG. MTD.
	F _H	FIRE ALARM HEAT DETECTOR (THERMAL FIXED TEMP: 135°F OR 190°F)-CLG. MTD.
	F _B	FIRE ALARM BELL
	F _{TS}	FIRE ALARM TAMPER SWITCH
	F _{FS}	SPRINKLER FLOW SWITCH CONNECTION
	F _{AP}	FIRE ALARM DRY SPRINKLER AIR PRESSURE SWITCH
	F _{DS}	FIRE ALARM SMOKE DETECTOR - DUCT MTD.
	F _{SD}	DUCT SMOKE DAMPER CONNECTION
	F _{QH}	AUTOMATIC DOOR HOLDER RELEASE CONNECTION
	F _{MM}	FIRE ALARM - MONITOR MODULE
	F _{CM}	FIRE ALARM - CONTROL MODULE
	F _{FAFP}	FLUSH MOUNT FIRE ALARM ANNUNCIATOR PANEL
	F _{FCP}	FIRE ALARM CONTROL PANEL
	F _{FPP}	FIRE ALARM POWER PANEL
	F _{NAC}	FIRE ALARM NOTIFICATION ALARM CIRCUIT POWER PANEL



ISSUANCES:

BID SET	5-15-2019
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UNIT A - FIRE ALARM PLAN



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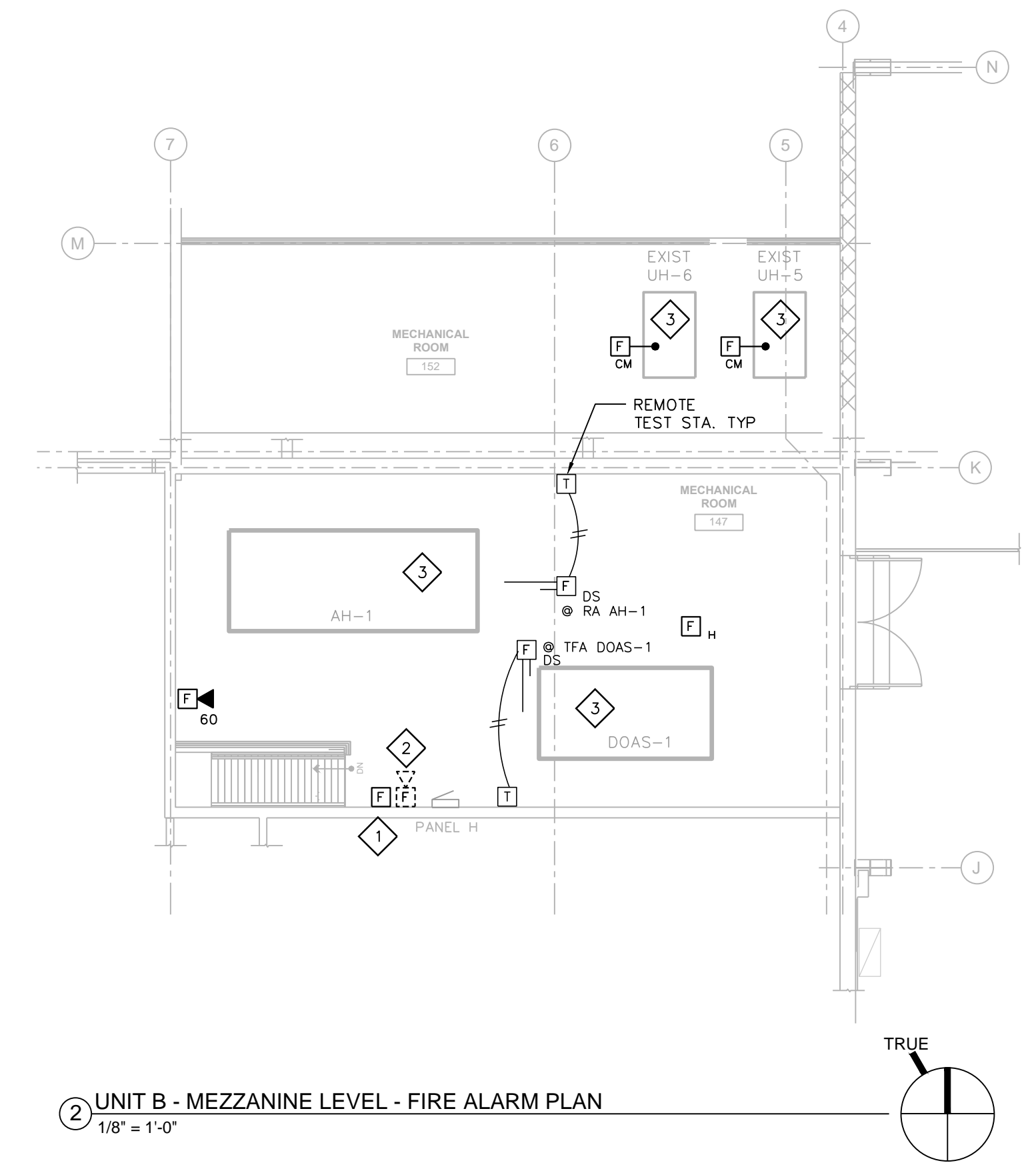
ISSUANCES:

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**UNIT B -
FIRE ALARM
PLAN**

PROJECT #: H1620
SHEET NUMBER

FA101



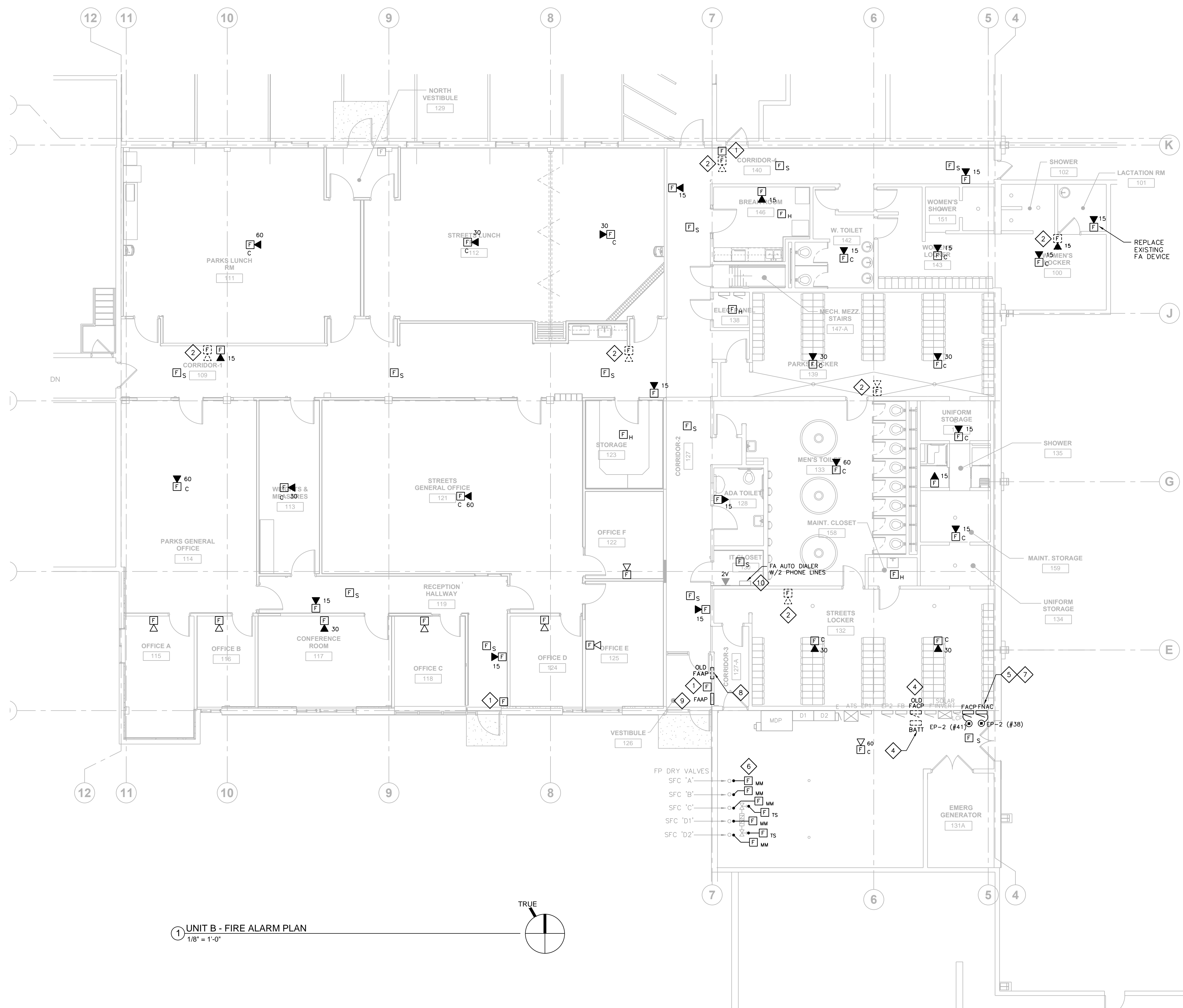
② UNIT B - MEZZANINE LEVEL - FIRE ALARM PLAN
1/8" = 1'-0"

FIRE ALARM GENERAL NOTES:

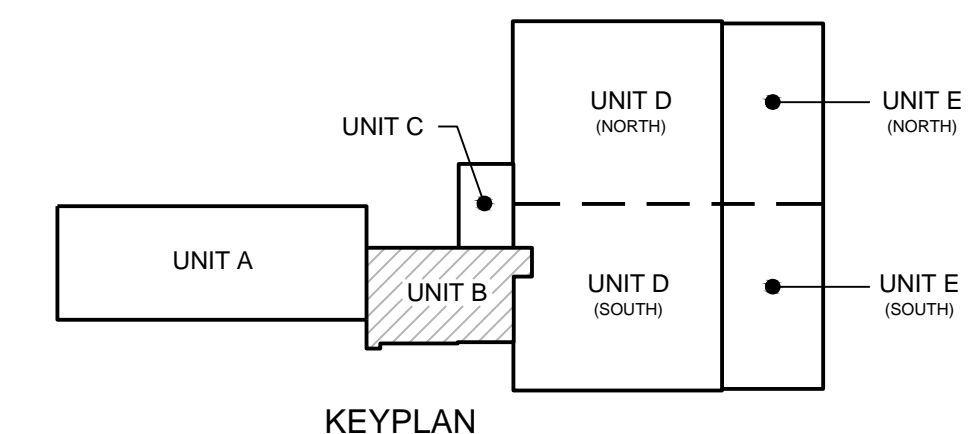
1. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE FIRE ALARM DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF ELECTRICAL WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL FIRE ALARM AND ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE FINAL DEVICE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER PRIOR TO INSTALLING RACEWAYS.
5. ALL EXPOSED RACEWAYS IN EMT CONDUIT.
6. REUSE EXISTING RACEWAYS & CABLING CONFORMING TO NEW FIRE ALARM PLAN.
7. FREE AIR CABLING ONLY IN CONCEALED CEILING SPACES.

FIRE ALARM PLAN NOTES:

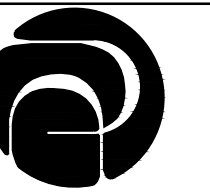
1. REPLACE FIRE ALARM PULL STATION WITH NEW ADDRESSIBLE DEVICE. REUSE EXISTING RACEWAYS & CABLING, IF CONFORMING TO NEW FA SYSTEM REQUIREMENT.
2. DISCONNECT AND REMOVE EXISTING FIRE ALARM HORN, HORN/STROBE, CABLING, RACEWAY & RELATED BACK TO FIRST JCT BOX OR CONTROL PANEL. REMOVE ALL UNUSED CABLES & RACEWAYS NOT CONFORMING WITH NEW FA PLAN.
3. SHUT DOWN AIR HANDLER OPERATION UPON GENERAL FIRE ALARM ACTIVATION. COORDINATE CONTROL MODULE WIRING INTERFACE WITH HVAC TRADE.
4. DISCONNECT & REMOVE EXISTING FIRE ALARM CONTROL CABINET & BATTERY CABINET.
5. DISCONNECT & REMOVE EXISTING FIRE ALARM CONTROL PANEL (SIMPLEX 4100) AND FA NAC PANEL. REPLACE WITH NEW ADDRESSIBLE FIRE ALARM CONTROL PANEL, FANP & RELATED FA COMMUNICATION EQUIPMENT. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
6. PROVIDE NEW FA MONITOR MODULES TO SUPERVISE FP DRY VALVE PRESSURE SWITCHES & TAMPER SWITCHES ON MAIN WATER GATE VALVES.
7. ARRANGE FOR ELECTRICAL TRADE TO RECONNECT POWER (STANDBY) TO NEW FA PANELS WITH BATTERY BACK-UP.
8. DISCONNECT AND REMOVE OLD FAAP.
9. REPLACE EXISTING FAAP WITH NEW UNIT.
10. REUSE EXISTING FA AUTO DIALER & PHONE LINES.



① UNIT B - FIRE ALARM PLAN
1/8" = 1'-0"



KEYPLAN



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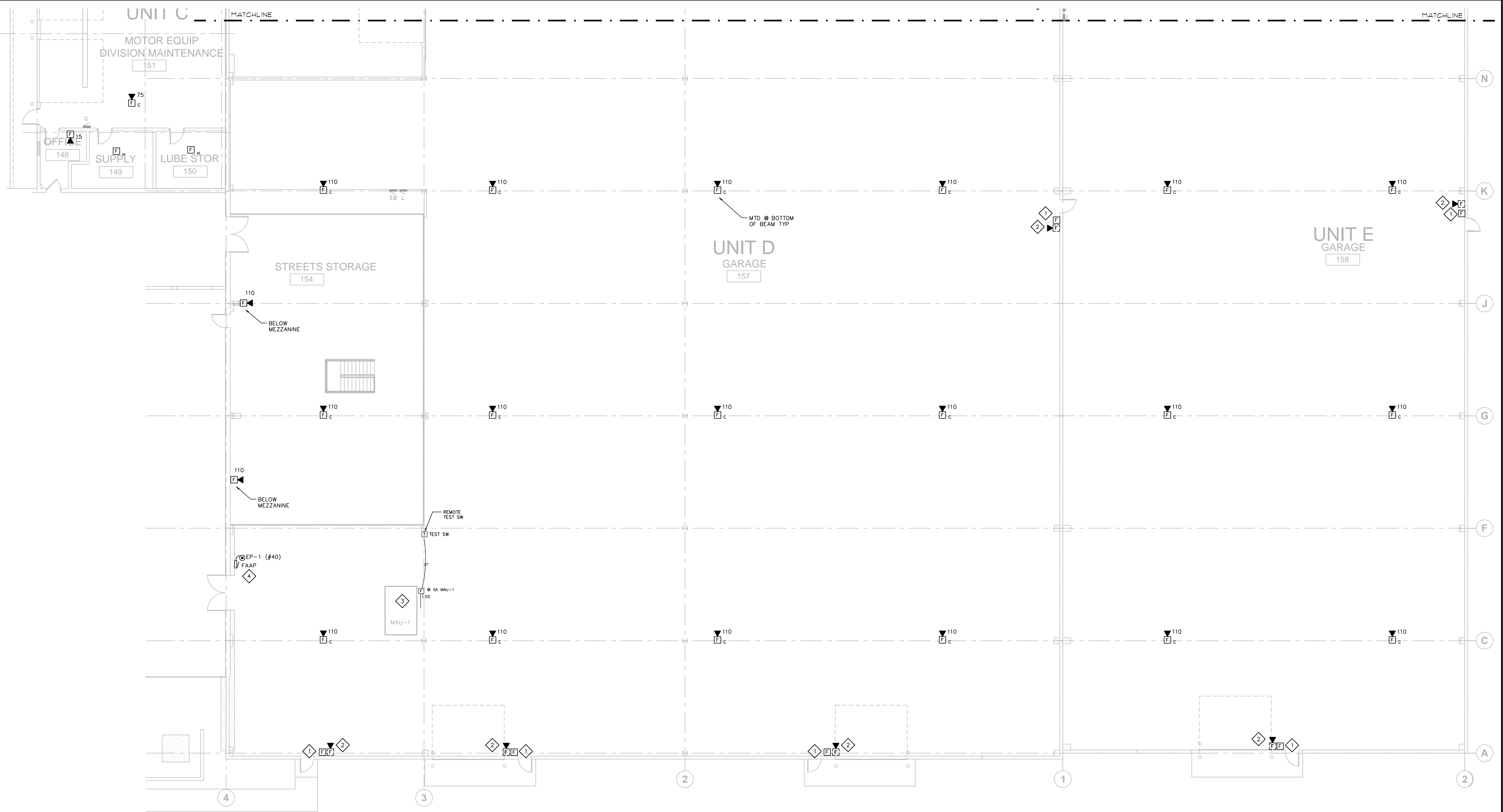
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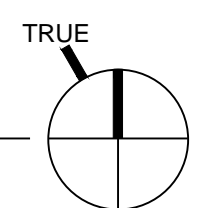
UNIT C/D/E
SOUTH -
FIRE ALARM
PLAN

PROJECT #: H1620
SHEET NUMBER

FA102



1 UNIT C/D/E SOUTH - FIRE ALARM PLAN
3/32" = 1'-0"

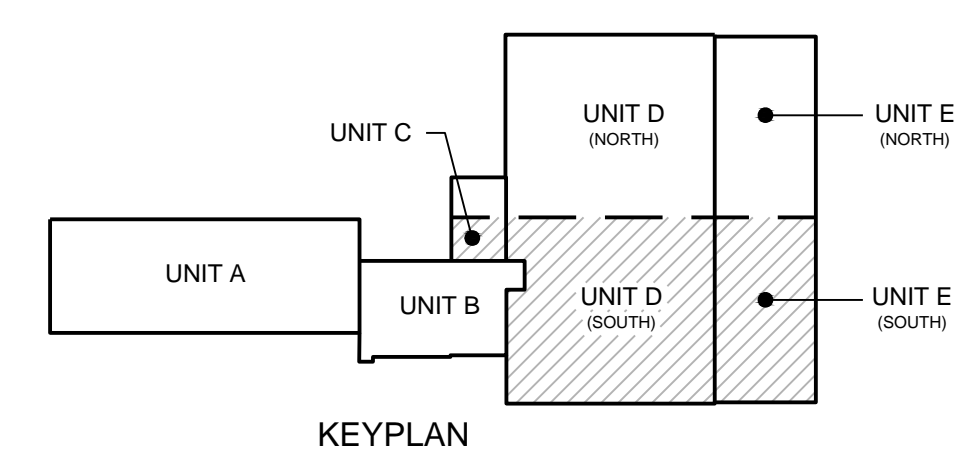


FIRE ALARM GENERAL NOTES:

1. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. THE FIRE ALARM DRAWINGS ARE INTENDED TO BE AN EXPRESSION OF THE DESIGN INTENT AND NOT ALL INCLUSIVE OF ELECTRICAL WORK REQUIRED.
2. COORDINATE AND SCHEDULE ALL FIRE ALARM AND ELECTRICAL WORK WITH THE OWNER'S GENERAL CONTRACTOR AND OWNER PRIOR TO STARTING WORK.
3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE FINAL DEVICE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER PRIOR TO INSTALLING RACEWAYS.
5. ALL EXPOSED RACEWAYS IN EMT CONDUIT.
6. REUSE EXISTING RACEWAYS & CABLING CONFORMING TO NEW FIRE ALARM PLAN.
7. FREE AIR CABLING ONLY IN CONCEALED CEILING SPACES.
8. ADD ALTERNATE #2: UNIT D & E GARAGE VENTILATION REQUIREMENTS.

FIRE ALARM PLAN NOTES:

1. REPLACE FIRE ALARM PULL STATION WITH NEW ADDRESSABLE DEVICE. REUSE EXISTING RACEWAYS & CABLING, IF CONFORMING TO NEW FA SYSTEM REQUIREMENT.
2. DISCONNECT AND REMOVE EXISTING FIRE ALARM HORNS, HORN/STROBES, CABLING, RACEWAY & RELATED BACK TO FIRST JCT BOX OR CONTROL PANEL. REMOVE ALL UNUSED CABLES & RACEWAYS NOT CONFORMING WITH NEW FA PLAN.
3. SHUT DOWN AIR HANDLER OPERATION UPON GENERAL FIRE ALARM ACTIVATION. COORDINATE CONTROL MODULE WIRING INTERFACE WITH HVAC TRADE.
4. NEW FIRE ALARM NOTIFICATION ALARM CIRCUIT POWER PANEL. ARRANGE FOR POWER FROM PANEL EP-1 (STANDBY) CKT #40 WITH BATTERY BACK-UP.





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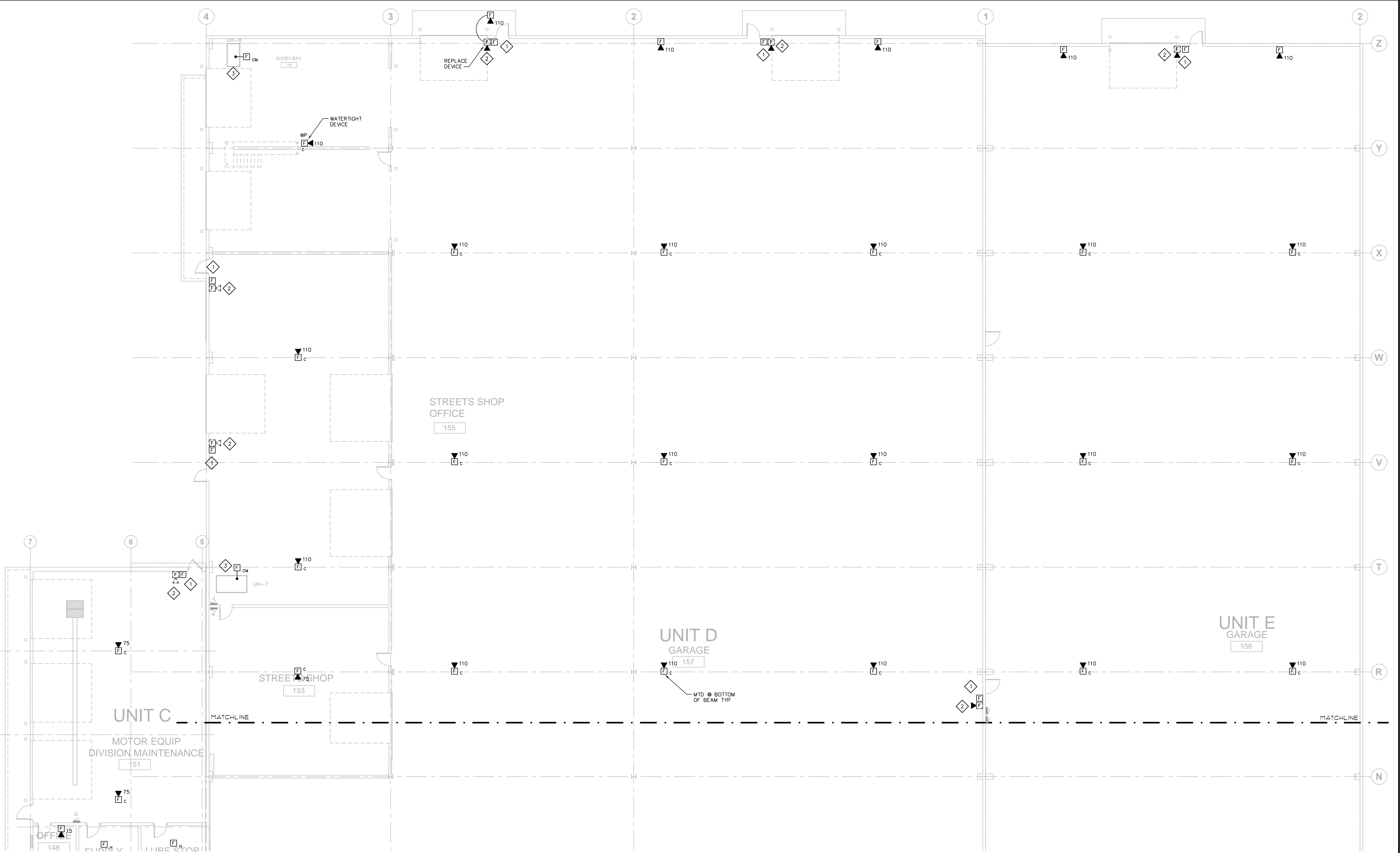
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UNIT C/D/E
NORTH -
FIRE ALARM
PLAN

PROJECT #: H1620

SHEET NUMBER

FA103



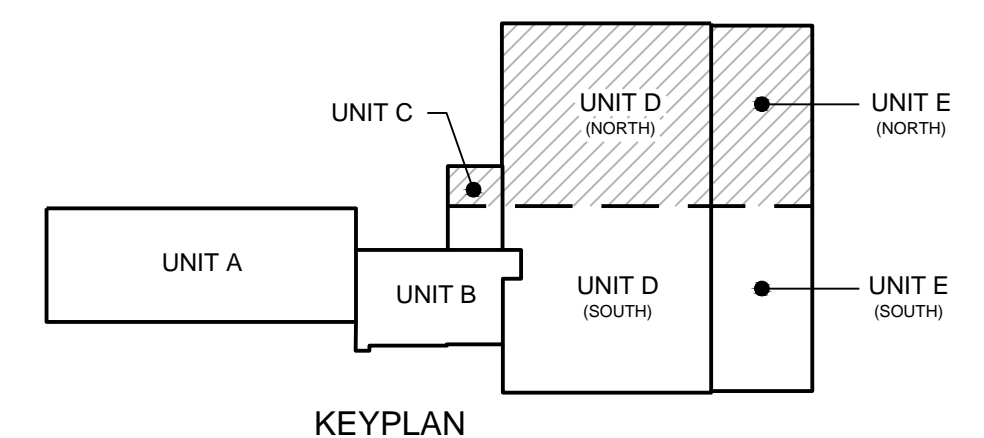
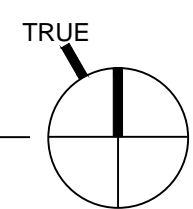
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3. REFER TO DIVISION 1 SPECIFICATIONS FOR RESTRICTED WORK SCHEDULE.
4. COORDINATE FINAL DEVICE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER PRIOR TO INSTALLING RACEWAYS.
5. ALL EXPOSED RACEWAYS IN EMT CONDUIT.
6. REUSE EXISTING RACEWAYS & CABLING CONFORMING TO NEW FIRE ALARM PLAN.
7. FREE AIR CABLING ONLY IN CONCEALED CEILING SPACES.

① UNIT C/D/E NORTH - FIRE ALARM PLAN
3/32" = 1'-0"

FIRE ALARM PLAN NOTES:

- ① REPLACE FIRE ALARM PULL STATION WITH NEW ADDRESSIBLE DEVICE. REUSE EXISTING RACEWAYS & CABLING, IF CONFORMING TO NEW FA SYSTEM REQUIREMENT.
- ② DISCONNECT AND REMOVE EXISTING FIRE ALARM HORNS, HORN/STROBES, CABLING, RACEWAY & RELATED BACK TO FIRST JCT BOX OR CONTROL PANEL. REMOVE ALL UNUSED CABLES & RACEWAYS NOT CONFORMING WITH NEW FA PLAN.
- ③ SHUT DOWN AIR HANDLER OPERATION UPON GENERAL FIRE ALARM ACTIVATION. COORDINATE CONTROL MODULE WIRING INTERFACE WITH HVAC TRADE.
- ④ NEW FIRE ALARM NOTIFICATION ALARM CIRCUIT POWER PANEL. ARRANGE FOR POWER FROM PANEL EP-1 (STANDBY) CKT #40 WITH BATTERY BACK-UP.



STRUCTURAL NOTES

LOADING

- DESIGNED IN ACCORDANCE WITH THE CURRENT WISCONSIN COMMERCIAL BUILDING CODE BASED ON THE 2015 INTERNATIONAL BUILDING CODE.
- DESIGN LOADS:
 - ROOF DEAD LOAD:
 - 2 PSF ROOF PANEL
 - 1 PSF INSULATION
 - 5 PSF PRIMARY AND SECONDARY
 - 7 PSF TOTAL ROOF DEAD LOAD
 - COLLATERAL GRAVITY LOAD:
 - 3 PSF MISC. MECHANICAL & EXISTING SOLAR ARRAYS
 - 4685 LB MAU UNIT
 - (2) 2300 LB SOLAR ARRAYS
 - ROOF LIVE LOAD:
 - 20 PSF REDUCIBLE
 - DESIGN SNOW LOAD: (BUILDING)
 - $P_g = 30$ PSF
 - $P_f = 0.7(C_e)(C_d)(I)(P_g) = 21.0$ PSF (30 PSF PER ORIGINAL STRUCTURAL DRAWINGS)
 - $C_e = 1.0$
 - $C_s = 1.0$
 - $C_t = 1.0$
 - $I = 1.0$

SEE PLAN FOR ADDITIONAL SNOW DRIFT LOADING PER ASCE "SNOW LOADS ON SOLAR-PANELED ROOFS"
- WIND DESIGN CRITERIA:
 - WIND SPEED = 115 MPH (ULTIMATE)
 - EXPOSURE = C
 - $I = 1.0$
 - $K_{zt} = 1.0$
 - $G_{Cp} = +/- .018$
- SEISMIC DESIGN CRITERIA
 - SEISMIC USE GROUP = I
 - $S_s = 10.5\%$; $S_1 = 4.4\%$
 - SITE CLASS = C
 - $S_{Dg} = 0.1220$; $S_{D1} = 0.0704$
 - SEISMIC DESIGN CATEGORY = B
 - SEISMIC RESISTING SYSTEM = STRUCTURAL STEEL
 - SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE DESIGN BASE SHEAR = 0.0373*W

GENERAL

- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN INDEPENDENT DESIGN PROFESSIONAL AND FURNISH ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER SEAL ON THESE DRAWINGS ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER AND ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, UNLESS NOTED SPECIFICALLY. INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

NEW WORK IN CONJUNCTION WITH EXISTING

- THE CONTRACTOR SHALL FIELD VERIFY ALL SIZES, DIMENSIONS, ELEVATIONS AND LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION.
- ALL DIMENSIONS INVOLVING NEW WORK TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR WITH ALL CORRECTIONS FURNISHED TO PROJECT ARCHITECT, ENGINEER AND SUBCONTRACTORS PRIOR TO THE FABRICATION OF ANY MATERIAL. THE VERIFIED DIMENSIONS SHALL APPEAR ON AND BE NOTED AS SUCH ON THE FIRST SET OF SHOP DRAWINGS.
- THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDING, INCLUDING THAT THE EXISTING BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE EXISTING STRUCTURE.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND THE ACTUAL FIELD CONDITIONS.
- ALL HOLES IN NEW CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. DO NOT OVER CUT OPENINGS – USE ZERO OVER CUT CONCRETE CHAIN SAW WHEN APPLICABLE.

STRUCTURAL STEEL FRAMING

- STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE AISC ASD 14TH EDITION STEEL CONSTRUCTION MANUAL.
- W-SHAPES SHALL CONFORM TO ASTM A992 ($F_y = 50$ KSI).
- ALL STRUCTURAL STEEL ANGLE AND CHANNEL SHAPES SHALL CONFORM TO ASTM A36 ($F_y = 36$ KSI) UNLESS NOTED OTHERWISE.
- PLATE STEEL SHALL CONFORM TO ASTM A36 ($F_y = 36$ KSI) UNLESS NOTED OTHERWISE TO BE 50 ksi.
- ALL SQUARE AND RECTANGULAR HSS SHALL CONFORM TO ASTM A500, GRADE B ($F_y = 46$ KSI).
- ALL ROUND HSS WITH A WALL THICKNESS GREATER THAN 5/8" (STEEL PIPE) SHALL CONFORM TO ASTM A53, GRADE B ($F_y = 35$ KSI).
- ALL SQUARE AND ROUND BARS SHALL BE $F_y = 50$ KSI.

- ALL SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWING SHALL BE SELECTED AND DETAILED BY THE FABRICATOR. ALL CONNECTIONS SHALL BE SELECTED FROM AISC ASD LOAD TABLES TO SUPPORT MAXIMUM LOADS SHOWN ON DRAWINGS OR FOR THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER PER AISC. DOUBLE ANGLE CONNECTIONS ARE PREFERRED WHEN POSSIBLE.
- ALL CONNECTION BOLTING IS TO BE WITH 3/4" DIAMETER A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
- ALL WELDING OF NEW STEEL TO BE WITH E70XX ELECTRODES.
- ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.
- ALL EXTERIOR EXPOSED STEEL SHALL BE PRIMED WITH A ZINC RICH PRIMER AND PAINTED WITH AN APPROPRIATE EXTERIOR PAINT. ALL PAINTING AND STEEL PREP SHALL BE IN CONFORMANCE WITH THE ARCHITECTURAL AND MANUFACTURES SPECIFICATIONS.
- ALL INSTALLED STEEL SHALL BE SMOOTH – HAZARD FREE.
- SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS.

MASONRY CONSTRUCTION

- MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI-530, ACI-530.1
- STABILITY OF THE MASONRY WALL(S) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL/SUB CONTRACTOR UNTIL THE WALLS ARE PROPERLY ATTACHED TO THE FRAMING SYSTEM.
- NET COMPRESSIVE STRENGTH FOR INDIVIDUAL MASONRY UNITS SHALL BE NOT LESS THAN 3050 PSI WHEN TESTED IN CONFORMANCE WITH ASTM C140 RESULTING IN A MINIMUM ALLOWABLE COMPRESSIVE STRENGTH OF MASONRY (F'_m) = 2000 PSI (PER TABLE 2105.2.2.1.2 OF THE CODE).
- MORTAR SHALL COMPLY WITH ASTM C 270 TYPE M OR S, 75% WATER RETENTION AND 12% AIR CONTENT.
- GROUT SHALL COMPLY WITH ASTM C 476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- ALL VERTICAL AND HORIZONTAL REINFORCING STEEL BARS IN MASONRY SHALL BE ASTM A615 GRADE 60.
- HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 FOR NORMAL WEIGHT UNITS. ALL CONCRETE MASONRY UNITS ON EXTERIOR WALLS, REGARDLESS OF EXTERIOR FINISHES, SHALL BE TYPE 1 (MOISTURE CONTROLLED BLOCK).
- UNLESS NOTED OTHERWISE ON PLANS PROVIDE 2X THE TYPICAL VERTICAL REINFORCING BAR IN THE FIRST FULL HEIGHT CELL EACH SIDE OF DOOR JAMBS, WINDOW OR WALL OPENINGS, CONTROL JOINTS OR OTHER DISCONTINUITIES, AND EDGE OF LINTEL BEARING.
- CELLS UNDER LINTEL BEAMS SPANNING 6'-0" OR MORE SHALL BE FULLY GROUTED WITH TYPICAL VERTICAL REINFORCING.
- ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID WITH 2500 PSI GROUT. GROUT LIFT HEIGHTS SHALL NOT EXCEED 4'-0". GROUT POUR HEIGHTS SHALL NOT EXCEED 24'-0". MECHANICAL CONSOLIDATION BETWEEN LIFTS IS REQUIRED. CLEAN OUT CELLS ARE REQUIRED AT THE BASE OF EACH GROUT POUR THAT EXCEEDS 5'-0".
- GROUT SHALL BE STOPPED 1.5" FROM COURSING JOINT TO CREATE A KEY AT THE POUR JOINT.
- REINFORCING BAR SUPPORTS ARE REQUIRED AT TOP, BOTTOM AND 10'-0" ON CENTER ALONG THE LENGTH OF THE BAR. REINFORCING BARS SHALL BE PLACED PRIOR TO GROUTING CELLS.
- HORIZONTAL REINFORCEMENT EMBEDDED IN GROUT SUCH AS LINTEL BEAMS SHALL HAVE A CLEAR THICKNESS OF GROUT BETWEEN THE MASONRY UNIT AND THE REINFORCEMENT OF 1/2".
- ALL BOLTS AND ANCHORS IN MASONRY SHALL BE GROUTED INTO POSITION OR BE INSTALLED IN SOLID GROUTED MASONRY AS NOTED ON PLAN. ANCHORS SHALL NOT BE INSTALLED IN UNGROUTED MASONRY UNLESS SPECIFICALLY SHOWN IN DETAILS.
- FOR VERTICAL WALL REINFORCING LAP ALL #4 AND #5 BARS 30". LAP VERTICAL BARS 36X DIAMETER U.N.O. (#5 = 30").

LIGHT GAGE COLD FORMED STEEL FRAMING

- ALL NON-LOAD BEARING LIGHT GAGE METAL FRAMING SHALL BE DESIGNED AND DETAILED BY THE SUPPLIER. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.
- ALL LIGHT GAGE STEEL SHALL MEET THE SPECIFICATIONS OF 2012 EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, AISI, SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- STUDS AND JOISTS SHALL BE GALVANIZED AND SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE CURRENT AISI SPECIFICATION.
- GALVANIZING SHALL MEET THE REQUIREMENTS OF ASTM A653.
- THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY DIETRICH INDUSTRIES SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY, THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION SHALL BE PROVIDED: I_x (in^4), S_x (in^3), AREA (in^2), R_x (in), F_y (KSI), RESISTING MOMENT ($in-lb$). ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
- ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.
- ALL WELDING OF LIGHT GAGE STEEL TO BE WITH E60XX ELECTRODES.
- SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED STEEL FRAMING AND ACCESSORY REQUIRED.

MISCELLANEOUS

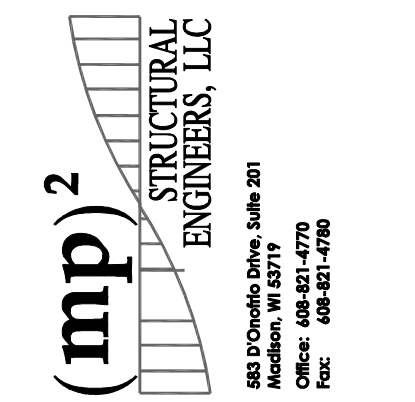
- ALL WINDOW FRAMES SHALL BE INSTALLED TO ALLOW FOR A MINIMUM OF L/600 OR 3/8 INCH VERTICAL DEFLECTION OF THE HEADER WHICHEVER IS LESS.
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER AND ARCHITECT FOR CLARIFICATION.
- EVERY EFFORT HAS BEEN MADE TO PROVIDE TO SCALE DRAWINGS, HOWEVER THE DRAWINGS ARE NOT NECESSARILY TO SCALE – USE GIVEN DIMENSIONS.

STRUCTURAL ABBREVIATION LEGEND

AB	ANCHOR BOLT	ID	INSIDE DIAMETER
AFF	ABOVE FINISH FLOOR	INSUL	INSULATION
AGG	AGGREGATE	INT	INTERIOR
ALUM	ALUMINUM	JT	JOINT
ALT	ALTERNATE	KB	KNEE BRACE
ARCH	ARCHITECT/ARCHITECTURAL	L	STEEL ANGLE DESIGNATION
B-B	BACK-TO-BACK	LG	LENGTH/LONG
BL	BUILDING LINE	LCMF	LIGHT GAGE METAL FRAMING
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLK	BLOCK	LLV	LONG LEG VERTICAL
BM	BEAM	LP	LOW POINT
BOT	BOTTOM	LVL	LAMINATED VENEER LUMBER
BRG	BEARING	MNF	MANUFACTURER
BS	BOTH SIDES	MAX	MAXIMUM
C	CHANNEL DESIGNATION	MASW	MASONRY BEARING WALL
CB	CATCH BASIN	MIN	MINIMUM
C/C	CENTER-TO-CENTER	MTL	METAL
CI	CAST IRON	NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NOM	NOMINAL
CJ	CONSTRUCTION JOINT	NTS	NOT TO SCALE
CL	CENTER LINE	N-S	NORTH-SOUTH DIRECTION
CLC	CELLING	OC	ON CENTER
CLJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CLR	CLEAR DISTANCE	OH	OVER HEAD
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	OS	ONE SIDE
CONC	CONCRETE	PEMB	PRE-ENGINEERED METAL BUILDING
CONN	CONNECTION	PERIM	PERIMETER
CONT	CONTINUOUS	FC	FLOOR CONTRACTOR
CONTR	CONTRACTOR	P/P	PRECAST/PRESTRESSED
D	DEPTH	P/P	POWDER DRIVEN FASTENER
DIA	DIAMETER	PL	STEEL PLATE DESIGNATION
DM	DIMENSION	P/T	POST TENSIONED
DN	DOWN	R	RADIUS
DTL	DETAIL	R/C	REINFORCED CONCRETE
DWG	DRAWING	RD	ROOF DRAIN
DWL	DOWEL	REIN	REINFORCING
EA	EACH	REQ'D	REQUIRED
EC	ELECTRICAL CONTRACTOR	SCHD	SCHEDULE
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SHT	SHEET
ELEV	ELEVATOR	SPA	SPACE/SPACES
ENG	ENGINEER	SPEC	SPECIFICATION
EQ	EQUAL	SQ	SQUARE
EW	EACH WAY	STL	STEEL
E-W	EAST-WEST DIRECTION	STR	STRUCTURAL
EXIST	EXISTING	TBE	TRUSS BEARING ELEVATION
EXP	EXPANSION	THK	THICK
EXT	EXTERIOR	TO	TOP OF
FB	FLANGE BRACE	TL	TOP OF LEDGE ELEVATION
FD	FLOOR DRAIN	TP	TOP OF PIER ELEVATION
FDN	FOUNDATION	TW	TOP OF WALL ELEVATION
FE	FIRE EXTINGUISHER	TOS	TOP OF STEEL ELEVATION
FF	FINISH FLOOR	TSL	TOP OF SLAB ELAVATION
F-F	FACE-TO-FACE	TYP	TYPICAL
FLG	FLANGE	UNO	UNLESS NOTES OTHERWISE
FUT	FUTURE	VERT	VERTICAL
FV	FIELD VERIFY	W	WIDTH
GA	GAUGE	W/	WITH
GALV	GALVANIZED	W/O	WITHOUT
GC	GENERAL CONTRACTOR	WCJ	WALL CONTROL JOINT
GL	GRID LINE	WD	WOOD
HC	HVAC CONTRACTOR	WF	WIDE FLANGE DESIGNATION
HK	HOOK	WP	WORKING POINT
HM	HOLLOW METAL	WSBW	WOOD STUD BEARING WALL
HORIZ	HORIZONTAL	WWF	WELDED WIRE FABRIC
HP	HIGH POINT		
HT	HEIGHT		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
HWS	HEADED WELDED STUD		



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- 05-15-2019 BID SET

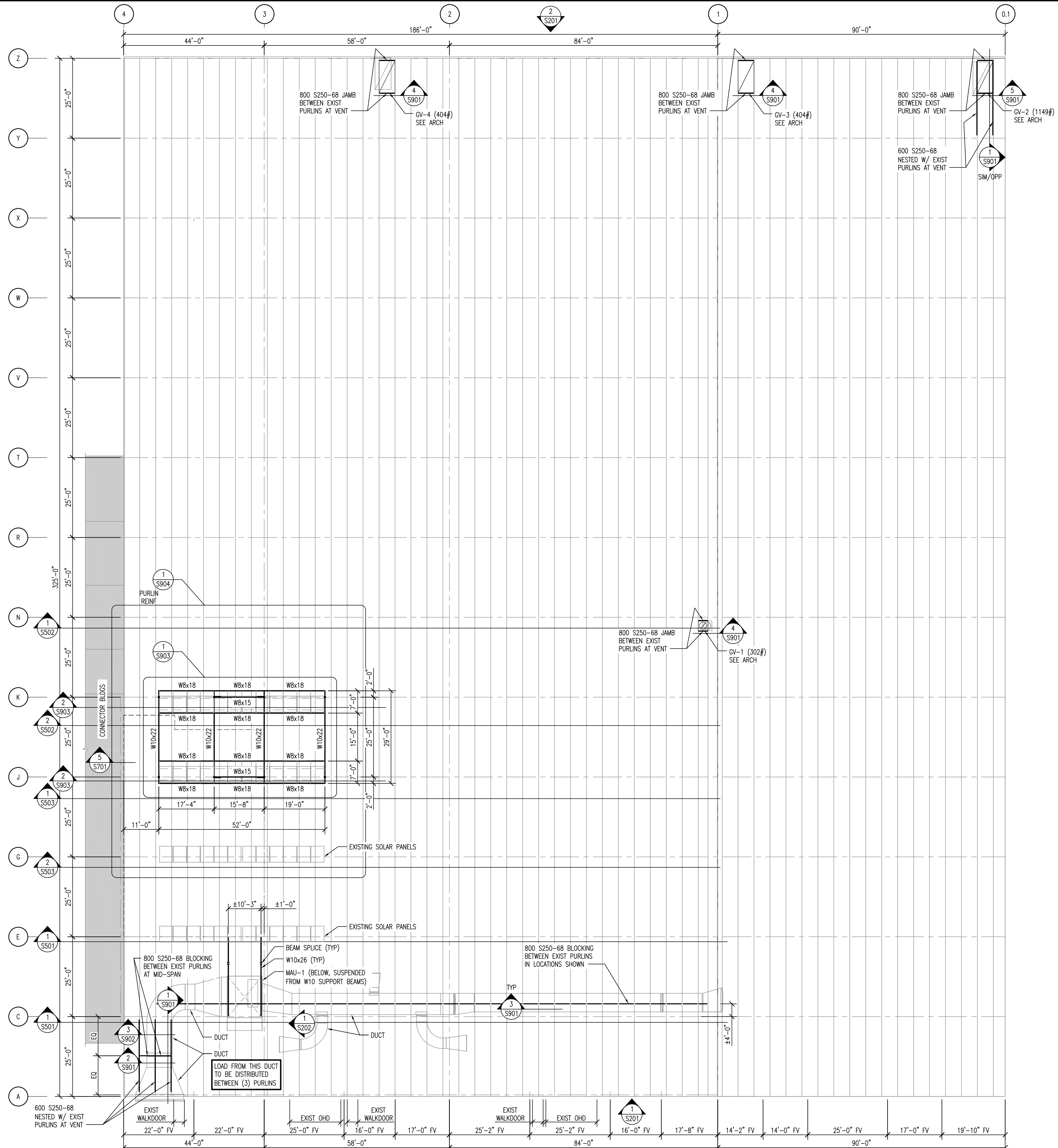
STRUCTURAL NOTES

PROJECT #: H1620
SHEET NUMBER

S001

PLAN NOTES

1. SEE SHEET S001 FOR ADDITIONAL NOTES.
2. SEE SHEET S902 DETAIL 2 FOR RECOMMENDED HANGER CONNECTION TO EXIST PURLIN.



1 ROOF FRAMING PLAN
SCALE: 1/16"=1'-0"



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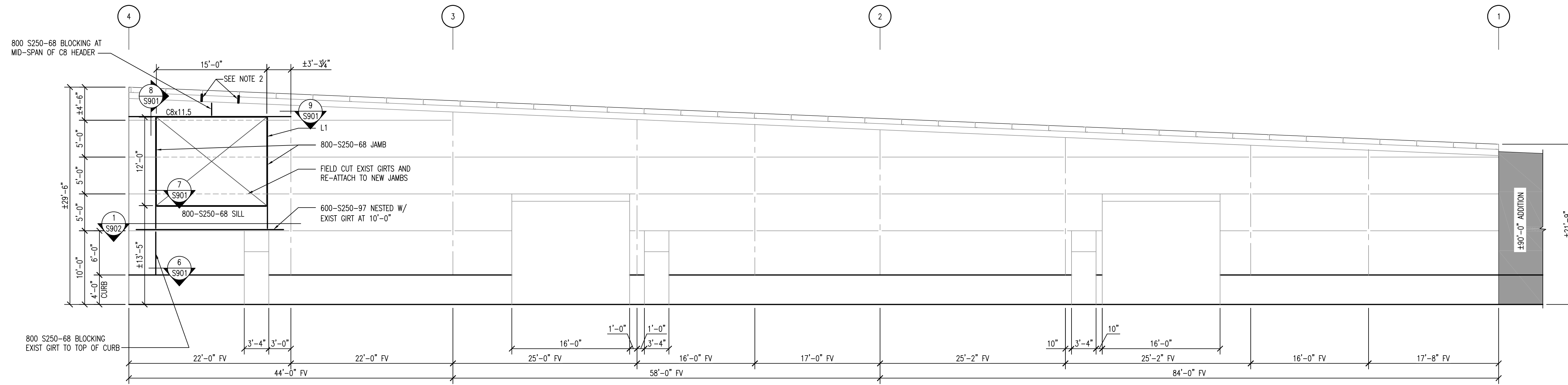
ROOF FRAMING PLAN

PROJECT #: H1620
SHEET NUMBER

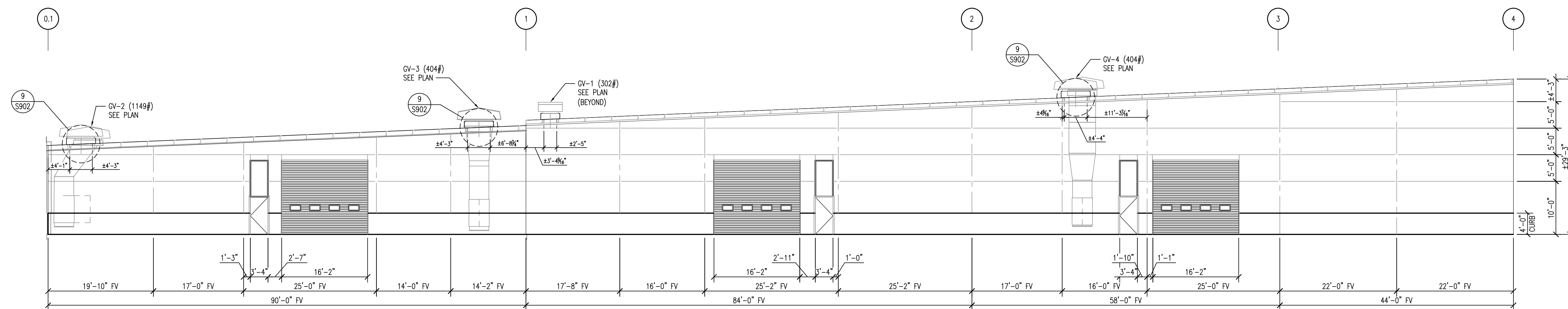
S101

PLAN NOTES

- SEE SHEET S001 FOR ADDITIONAL NOTES.
- ADD FLANGE BRACE AT LOCATIONS SHOWN. SEE DETAIL 8 ON PAGE S902.



1 WALL FRAMING PLAN AT LINE A (SOUTH)
SCALE: 1/8"=1'-0"



2 WALL FRAMING PLAN AT LINE Z (NORTH)
SCALE: 1/8"=1'-0"

CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

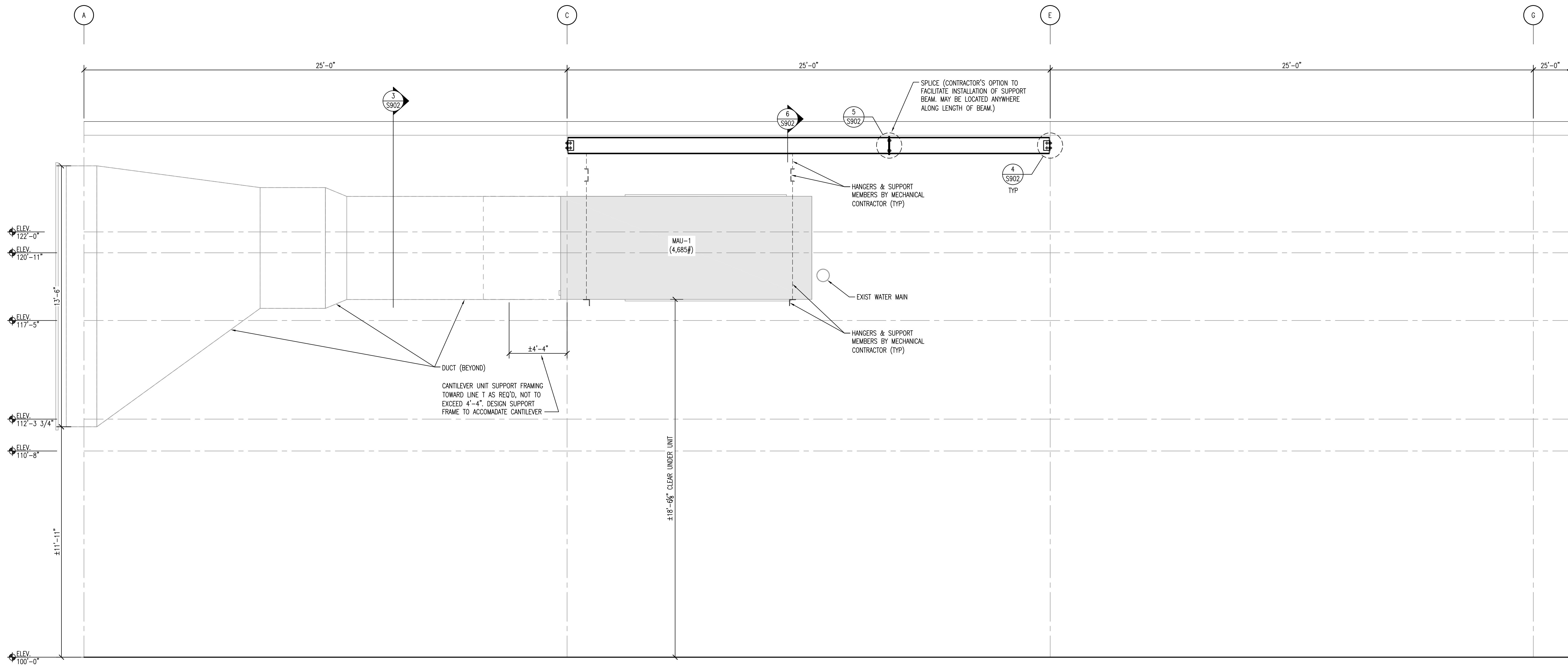
ISSUANCES:

- 02-01-2019 FOR CONSTRUCTION
- 02-28-2019 FOR CONSTRUCTION
- 05-15-2019 BID SET

WALL FRAMING
ELEVATIONS

PROJECT #: H1620
SHEET NUMBER

S201



1 ELEVATION AT MAU-1 / LARGE DUCT
S202 SCALE: 3/8"=1'-0"

CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

ISSUANCES:

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- 05-15-2019 BID SET

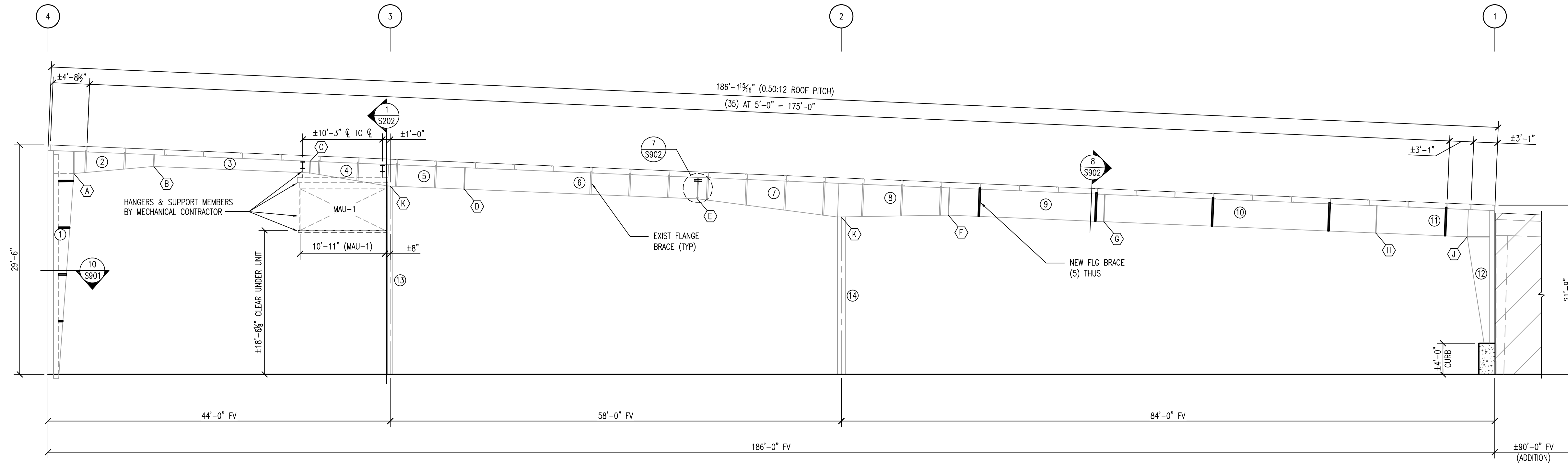
ENLARGED
ELEVATION

PROJECT #: H1620
SHEET NUMBER

S202

PLAN NOTES

1. SEE SHEET S501 FOR ADDITIONAL NOTES.



1 FRAME CROSS SECTION AT LINES C AND E
SCALE: 1/8"=1'-0"

FRAME MEMBER SIZE SCHEDULE

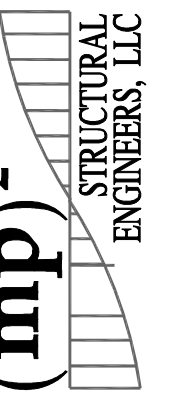
MEMBER I.D.	FLANGE (WIDTH x TK.)	DEPTH 1	DEPTH 2	APPROX. LENGTH
1	6.50 x 0.25	0'-8"	2'-7 1/2"	29'-3 1/8"
2	6.00 x 0.25	2'-10"	1'-6"	10'-0 1/2"
3	5.00 x 0.1875	1'-6"	1'-6"	20'-1"
4	5.50 x 0.25	1'-6"	2'-9"	10'-4 1/8"
5	5.50 x 0.25	2'-9"	2'-9"	9'-6 1/8"
6	5.00 x 0.25	2'-9"	2'-9"	30'-0"
7	9.00 x 0.50	2'-9"	4'-4"	18'-4 1/4"
8	9.00 x 0.50	4'-4"	3'-6"	13'-1 1/4"
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	8.00 x 0.25	2'-10"	8"	13'-8 1/4"
13	8.00 x 0.3125	8"	8"	24'-2 1/8"
14	10.00 x 0.3125	1'-0"	1'-0"	20'-2 1/8"

BOLT CONNECTION & PLATE SCHEDULE

CONNECTION I.D.	QUANTITY	BOLT DIA.	GRADE	PLATE TK.	ROWS OUT	ROWS IN
A	12	0.7500	A325	0.5000	5	1
B	4	0.7500	A325	0.5000	1	1
C	4	0.7500	A325	0.5000	1	1
D	4	0.7500	A325	0.5000	1	1
E	10	0.7500	A325	0.5000	4	1
F	4	0.7500	A325	0.5000	1	1
G	12	0.7500	A325	0.5000	1	5
H	18	0.7500	A325	0.5000	1	8
J	8	0.7500	A325	0.5000	2	2
K	4	0.5000	A325	0.3750	1	1



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Phone: (608) 288-9260
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Project No. H1620



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CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

ISSUANCES:

02-01-2019 FOR CONSTRUCTION
02-28-2019 FOR CONSTRUCTION
05-15-2019 BID SET

FRAME CROSS SECTION

PROJECT #: H1620
SHEET NUMBER

S501

PLAN NOTES

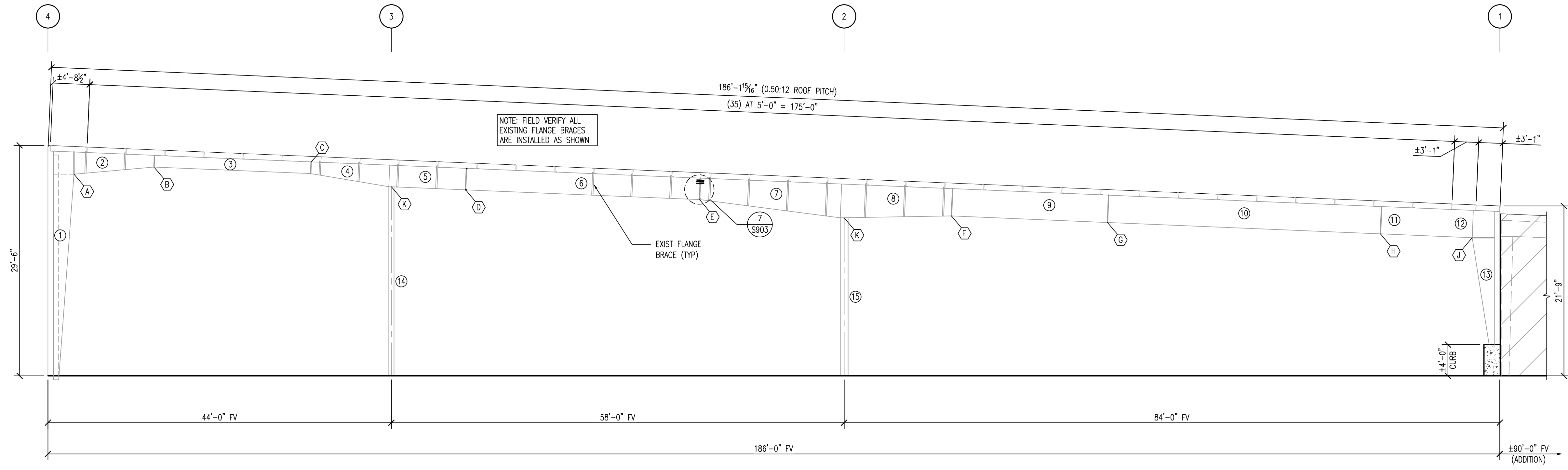
1. SEE SHEET S001 FOR ADDITIONAL NOTES.

FRAME MEMBER SIZE SCHEDULE

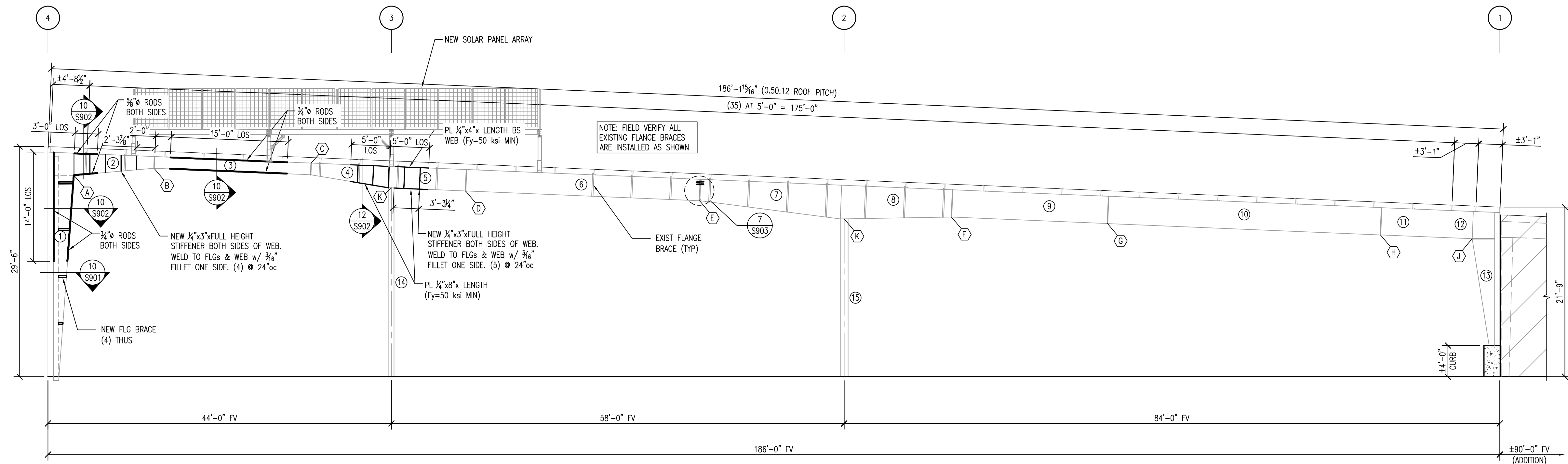
MEMBER I.D.	FLANGE (WIDTH x TK.)	DEPTH 1	DEPTH 2	APPROX. LENGTH
1	6.50 x 0.25	0'-8"	2'-7½"	29'-3¾"
2	6.00 x 0.25	2'-10"	1'-6"	10'-0½"
3	5.00 x 0.1875	1'-6"	1'-6"	20'-1"
4	5.50 x 0.25	1'-6"	2'-9"	10'-4¾"
5	5.50 x 0.25	2'-9"	2'-9"	9'-8¾"
6	5.00 x 0.25	2'-9"	2'-9"	30'-0"
7	9.00 x 0.50	2'-9"	4'-4"	18'-4¾"
8	9.00 x 0.50	4'-4"	3'-6"	13'-1¼"
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	8.00 x 0.25	2'-10"	8"	13'-8¼"
14	8.00 x 0.3125	8"	8"	24'-2¾"
15	10.00 x 0.3125	1'-0"	1'-0"	20'-2½"

BOLT CONNECTION & PLATE SCHEDULE

CONNECTION I.D.	QUANTITY	BOLT DIA.	GRADE	PLATE TK.	ROWS OUT	ROWS IN
A	12	0.7500	A325	0.5000	5	1
B	4	0.7500	A325	0.5000	1	1
C	4	0.7500	A325	0.5000	1	1
D	4	0.7500	A325	0.5000	1	1
E	10	0.7500	A325	0.5000	4	1
F	4	0.7500	A325	0.5000	1	1
G	12	0.7500	A325	0.5000	1	5
H	18	0.7500	A325	0.5000	1	8
J	8	0.7500	A325	0.5000	2	2
K	4	0.5000	A325	0.3750	1	1



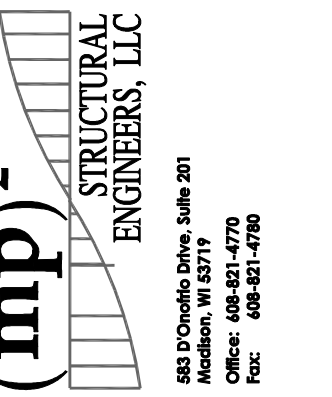
1 FRAME CROSS SECTION AT LINE N
SCALE: 1/8"=1'-0"



2 FRAME CROSS SECTION AT LINE K
SCALE: 1/8"=1'-0"



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CITY OF MADISON
EAST STREET OFFICE REMODEL
4602 SYCAMORE AVENUE
MADISON, WI 53704

ISSUANCES:

- 02-01-2019 FOR CONSTRUCTION
- 02-28-2019 FOR CONSTRUCTION
- 05-15-2019 BID SET

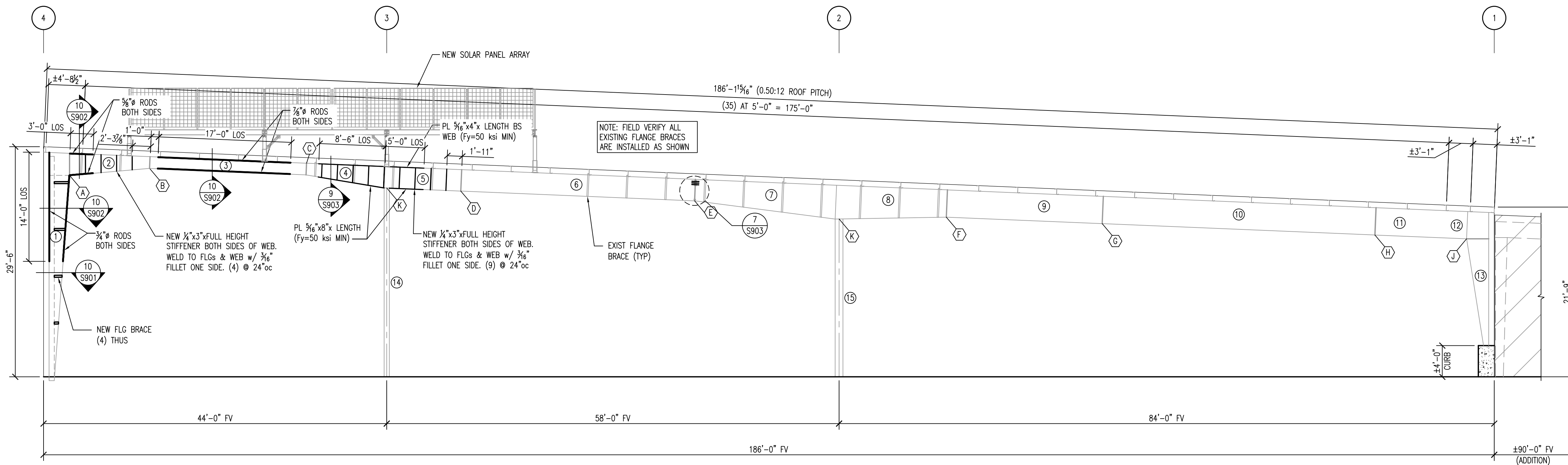
FRAME CROSS SECTION

PROJECT #: H1620
SHEET NUMBER

S502

PLAN NOTES

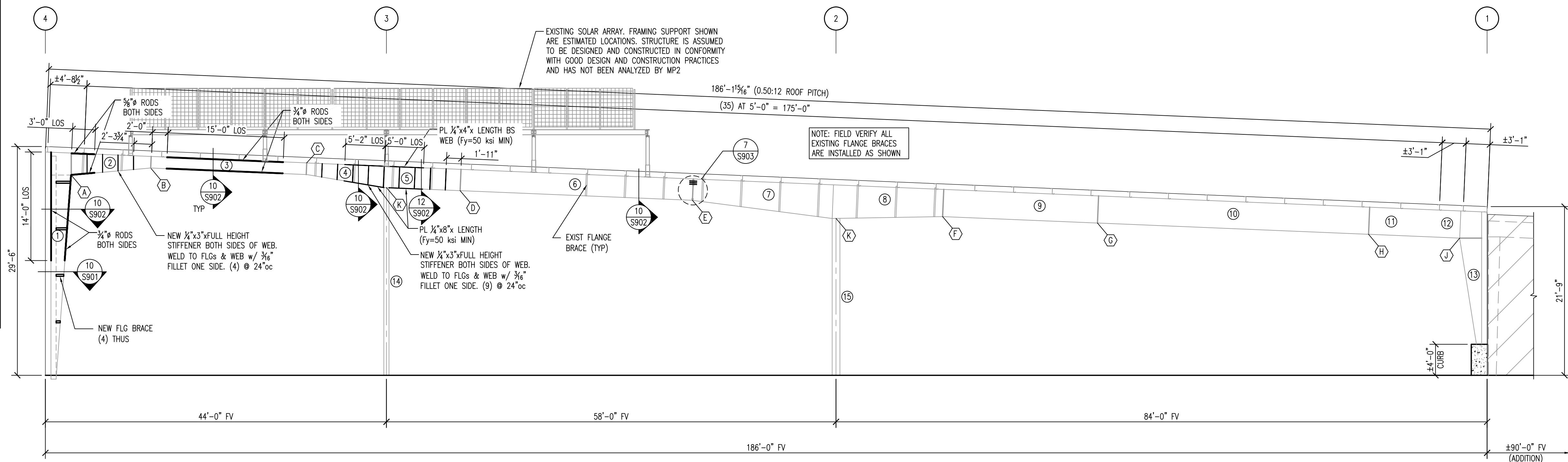
1. SEE SHEET S001 FOR ADDITIONAL NOTES.



1 FRAME CROSS SECTION AT LINE J
SCALE: 1/8"=1'-0"

FRAME MEMBER SIZE SCHEDULE				
MEMBER I.D.	FLANGE (WIDTH x TK.)	DEPTH 1	DEPTH 2	APPROX. LENGTH
1	6.50 x 0.25	0'-8"	2'-7 1/2"	29'-3 3/8"
2	6.00 x 0.25	2'-10"	1'-6"	10'-0 1/2"
3	5.00 x 0.1875	1'-6"	1'-6"	20'-1"
4	5.50 x 0.25	1'-6"	2'-9"	10'-4 3/8"
5	5.50 x 0.25	2'-9"	2'-9"	9'-6 1/4"
6	5.00 x 0.25	2'-9"	2'-9"	30'-0"
7	9.00 x 0.50	2'-9"	4'-4"	18'-4 3/4"
8	9.00 x 0.50	4'-4"	3'-6"	13'-11 1/4"
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	8.00 x 0.25	2'-10"	8"	13'-8 1/4"
14	8.00 x 0.3125	8"	8"	24'-2 3/8"
15	10.00 x 0.3125	1'-0"	1'-0"	20'-2 3/8"

BOLT CONNECTION & PLATE SCHEDULE						
CONNECTION I.D.	QUANTITY	BOLT DIA.	GRADE	PLATE TK.	ROWS OUT	ROWS IN
A	12	0.7500	A325	0.5000	5	1
B	4	0.7500	A325	0.5000	1	1
C	4	0.7500	A325	0.5000	1	1
D	4	0.7500	A325	0.5000	1	1
E	10	0.7500	A325	0.5000	4	1
F	4	0.7500	A325	0.5000	1	1
G	12	0.7500	A325	0.5000	1	5
H	18	0.7500	A325	0.5000	1	8
J	8	0.7500	A325	0.5000	2	2
K	4	0.5000	A325	0.3750	1	1



2 FRAME CROSS SECTION AT LINE G
SCALE: 1/8"=1'-0"

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MADISON, WI 53704

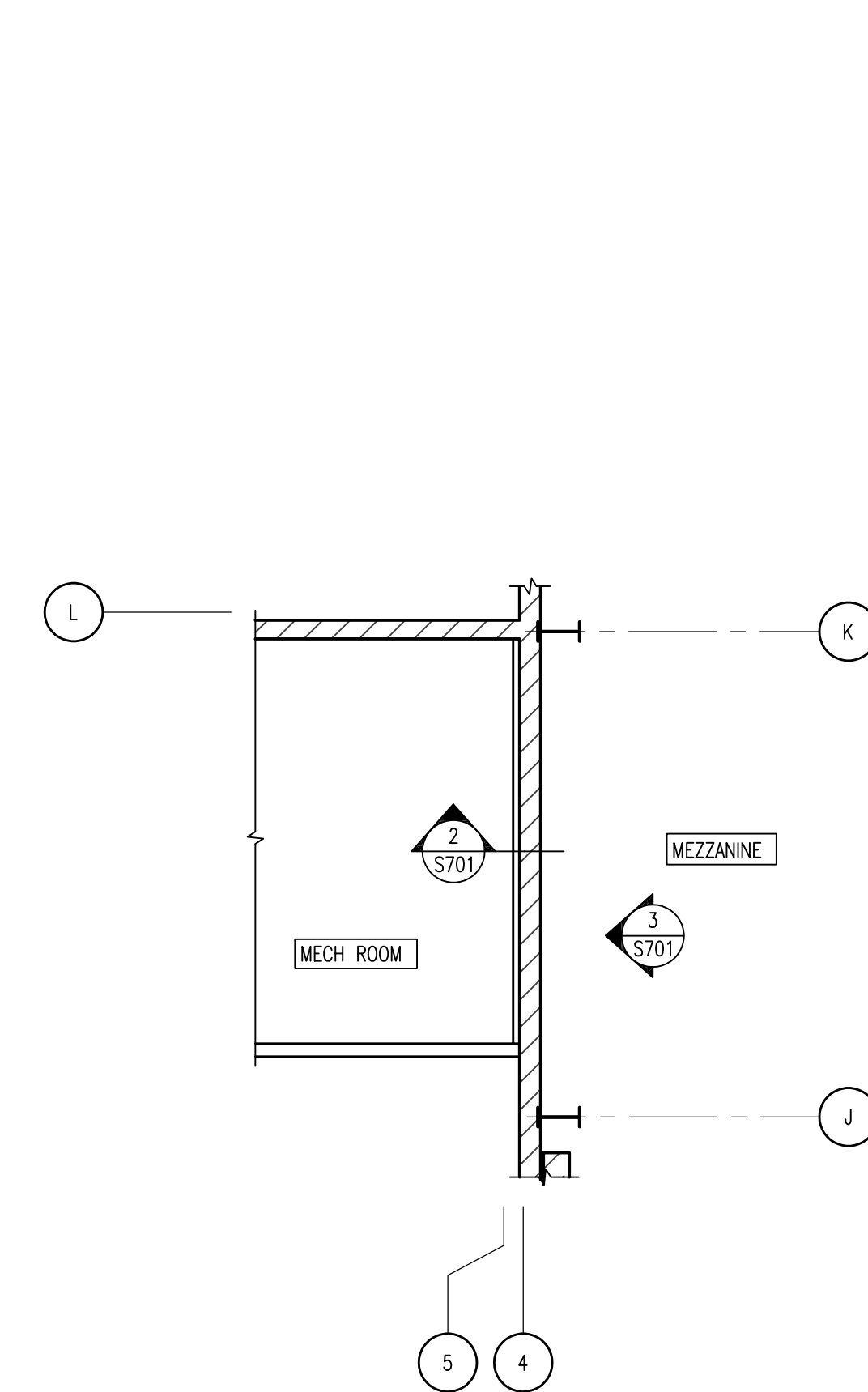
ISSUANCES:

- 02-01-2019 FOR CONSTRUCTION
- 02-28-2019 FOR CONSTRUCTION
- 05-15-2019 BID SET

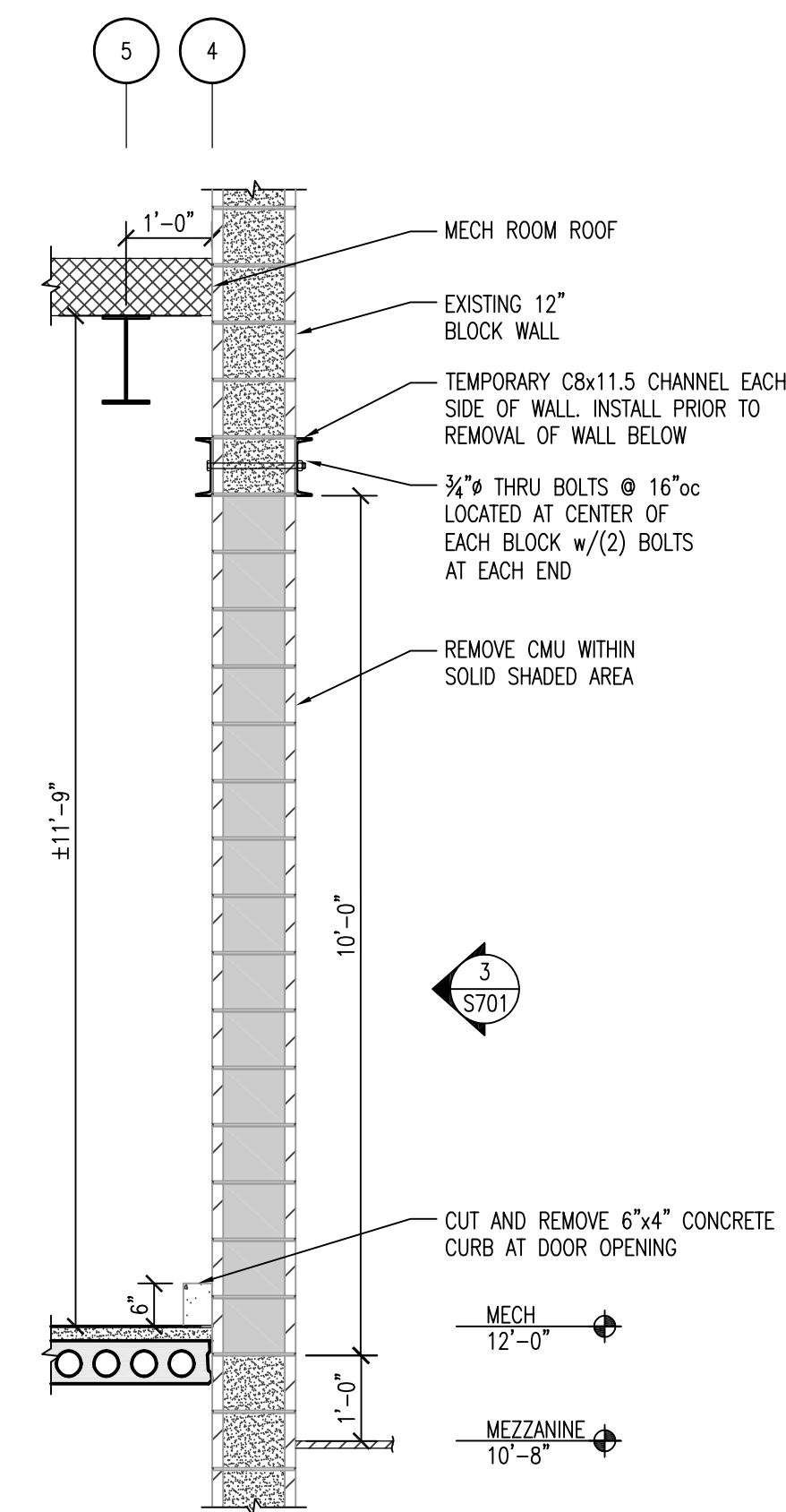
FRAME CROSS SECTION

PROJECT #: H1620
SHEET NUMBER

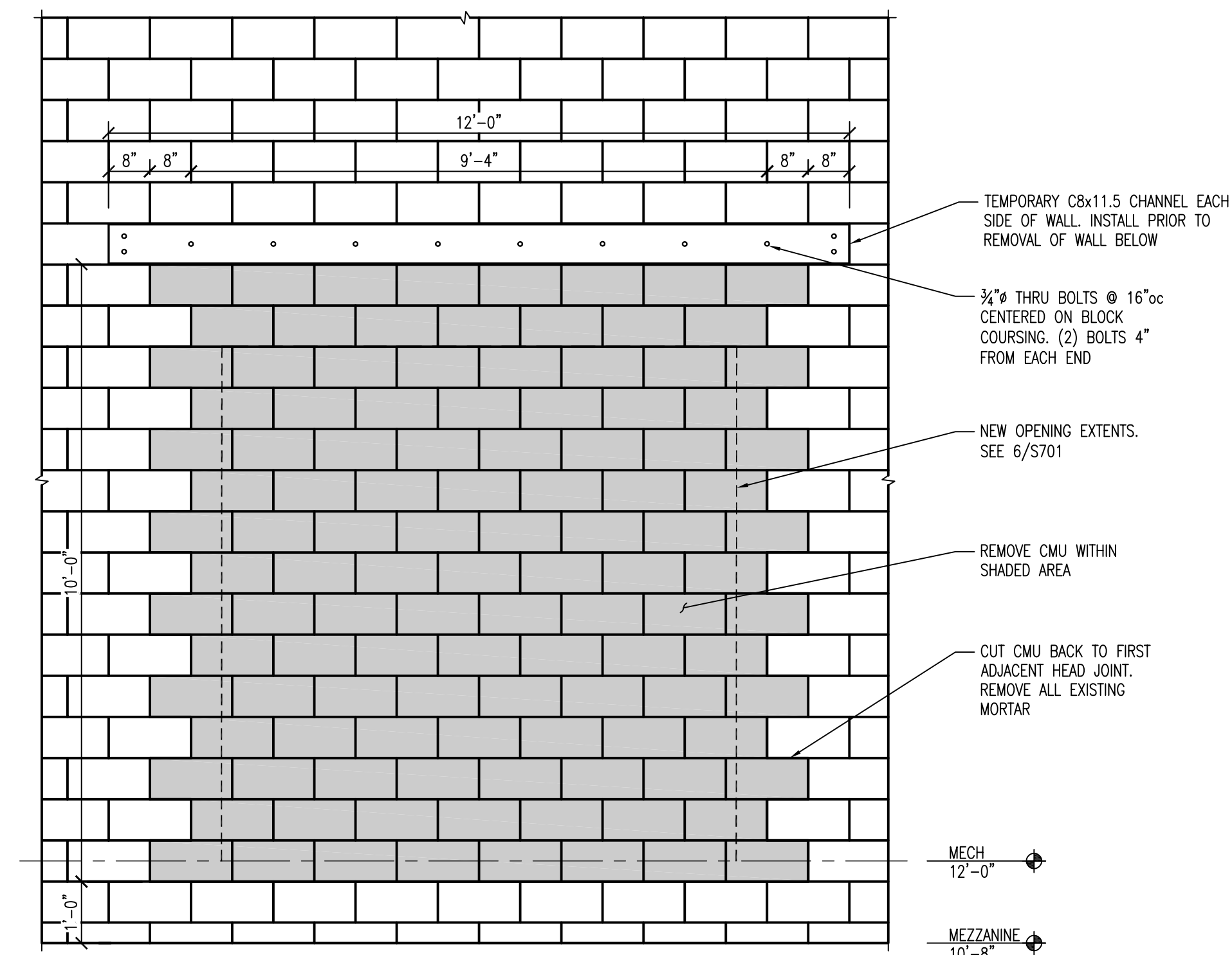
S503



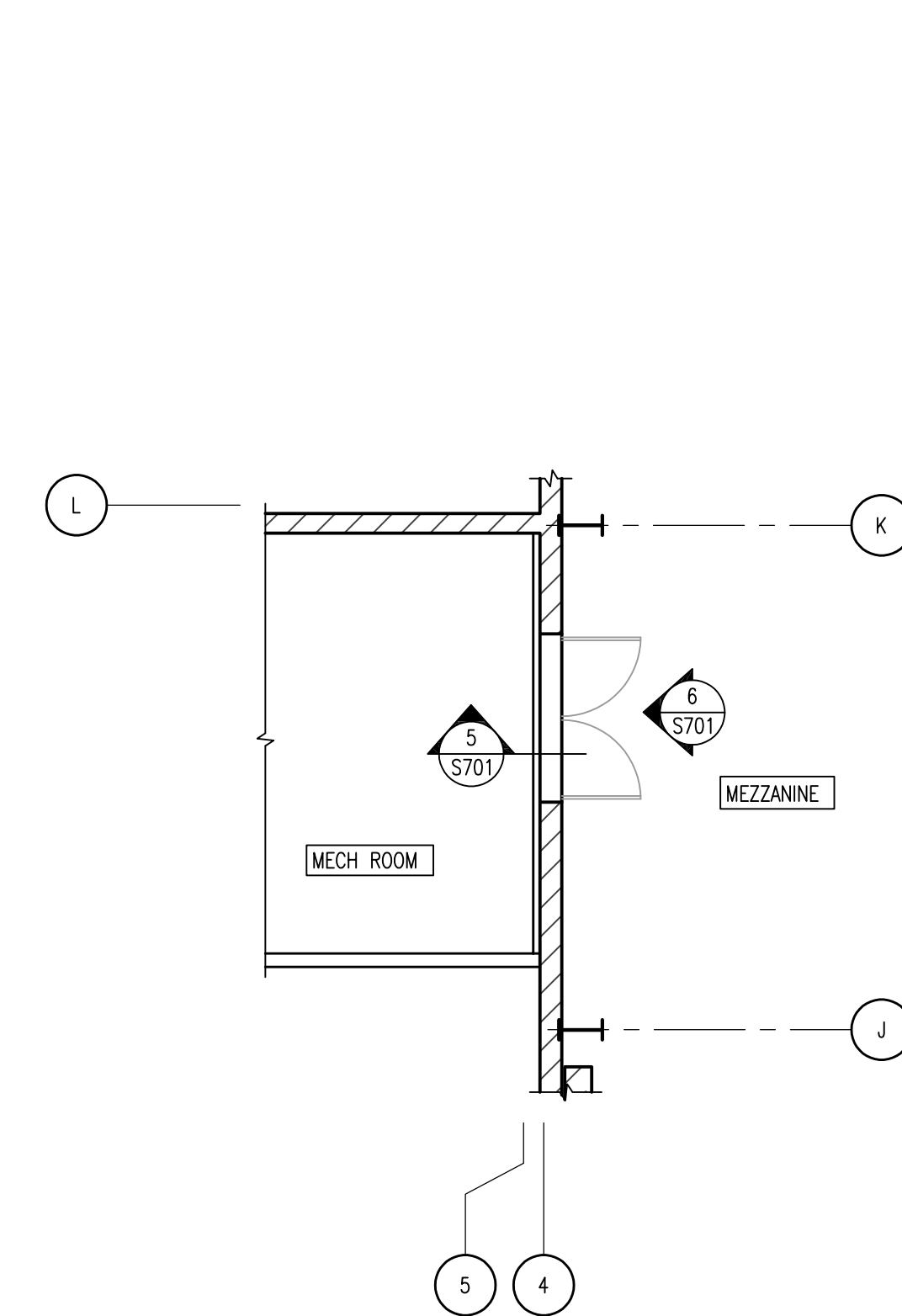
1 EXISTING PLAN
SCALE: 1/8"=1'-0"



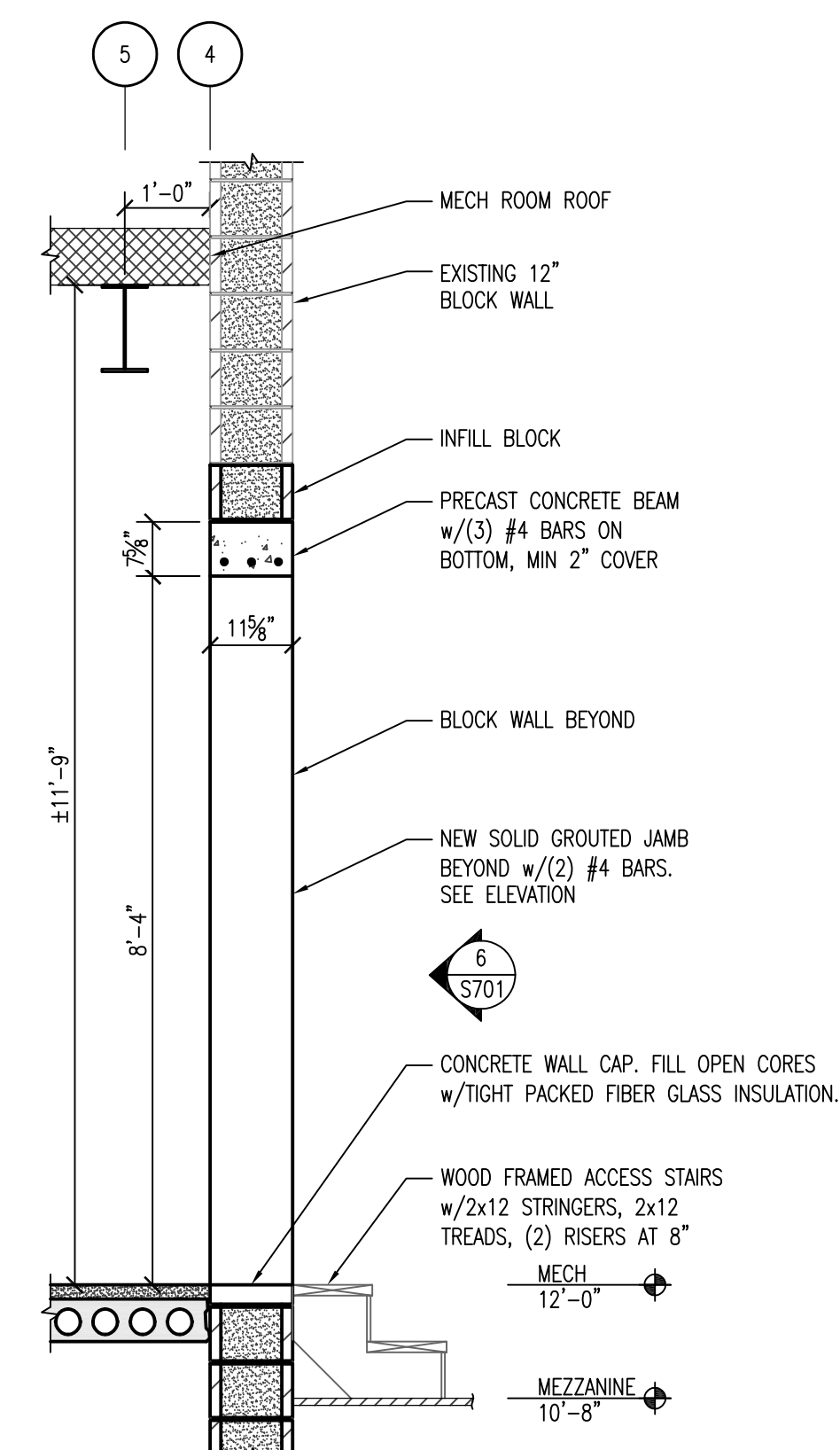
2 DEMO WALL SECTION
SCALE: 1/2"=1'-0"



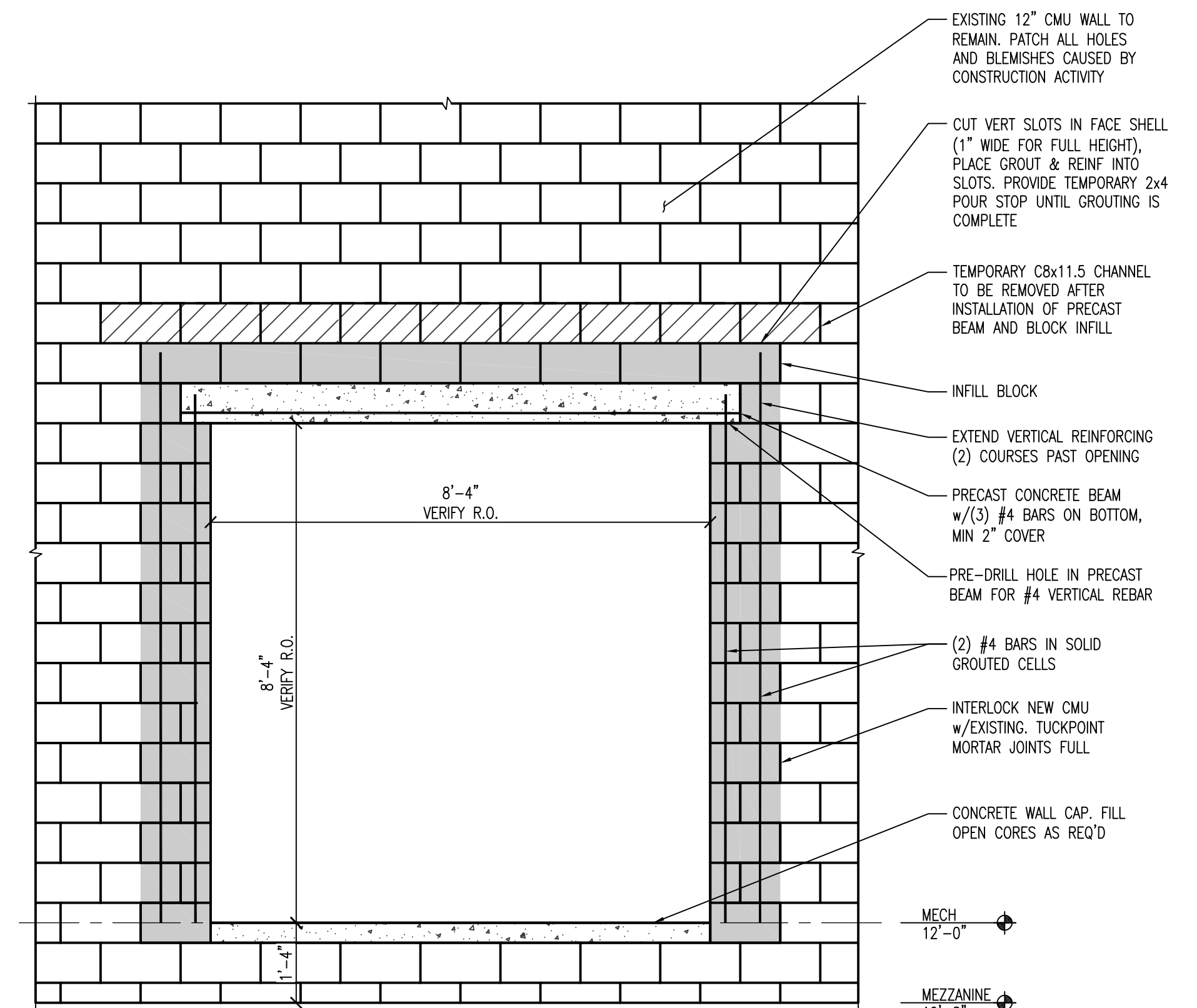
3 DEMO WALL ELEVATION
SCALE: 1/2"=1'-0"



4 NEW PLAN
SCALE: 1/8"=1'-0"



5 NEW WALL SECTION
SCALE: 1/2"=1'-0"



6 NEW WALL ELEVATION
SCALE: 1/2"=1'-0"

MATERIAL DESIGN PROPERTIES:

CONCRETE:
PRECAST $f'_c = 4,000$ PSI

REINFORCING STEEL:
BARS $F_y = 60,000$ PSI

STRUCTURAL MASONRY: SEE NOTES ON S001

MASONRY:

1. FIELD VERIFY EXISTING CMU COURSING
2. ALL CMU SHALL MEET REQUIRED FIRE RESISTANCE RATING OF THE EXISTING WALL. VERIFY REQUIREMENTS WITH OWNER.
3. END CELLS AT OPENING SHALL BE FILLED WITH CONCRETE GROUT. COURSE AGGREGATE SHALL BE PEA GRAVEL.

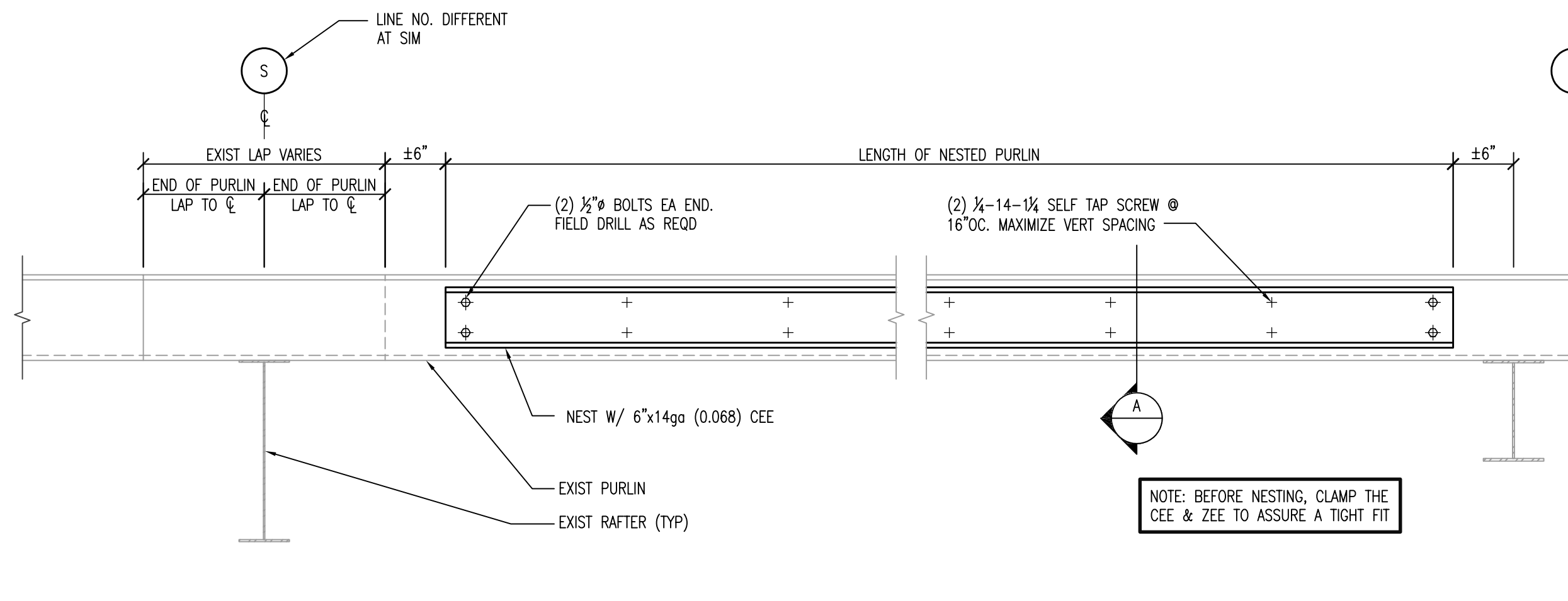
ISSUANCES:

02-01-2019 FOR CONSTRUCTION
02-28-2019 FOR CONSTRUCTION
05-15-2019 BID SET

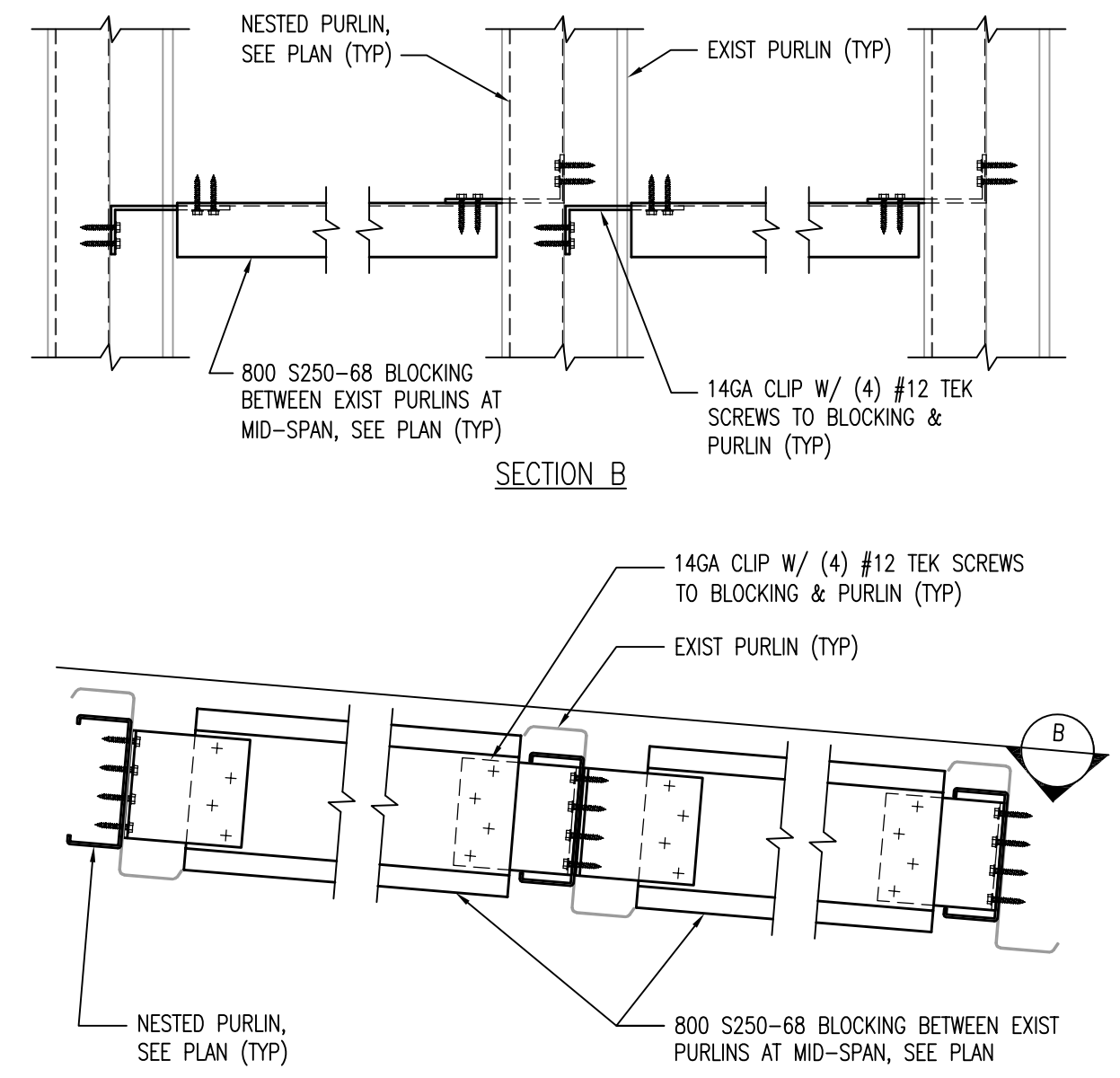
**MASONRY
DETAILS**

PROJECT #: H1620
SHEET NUMBER

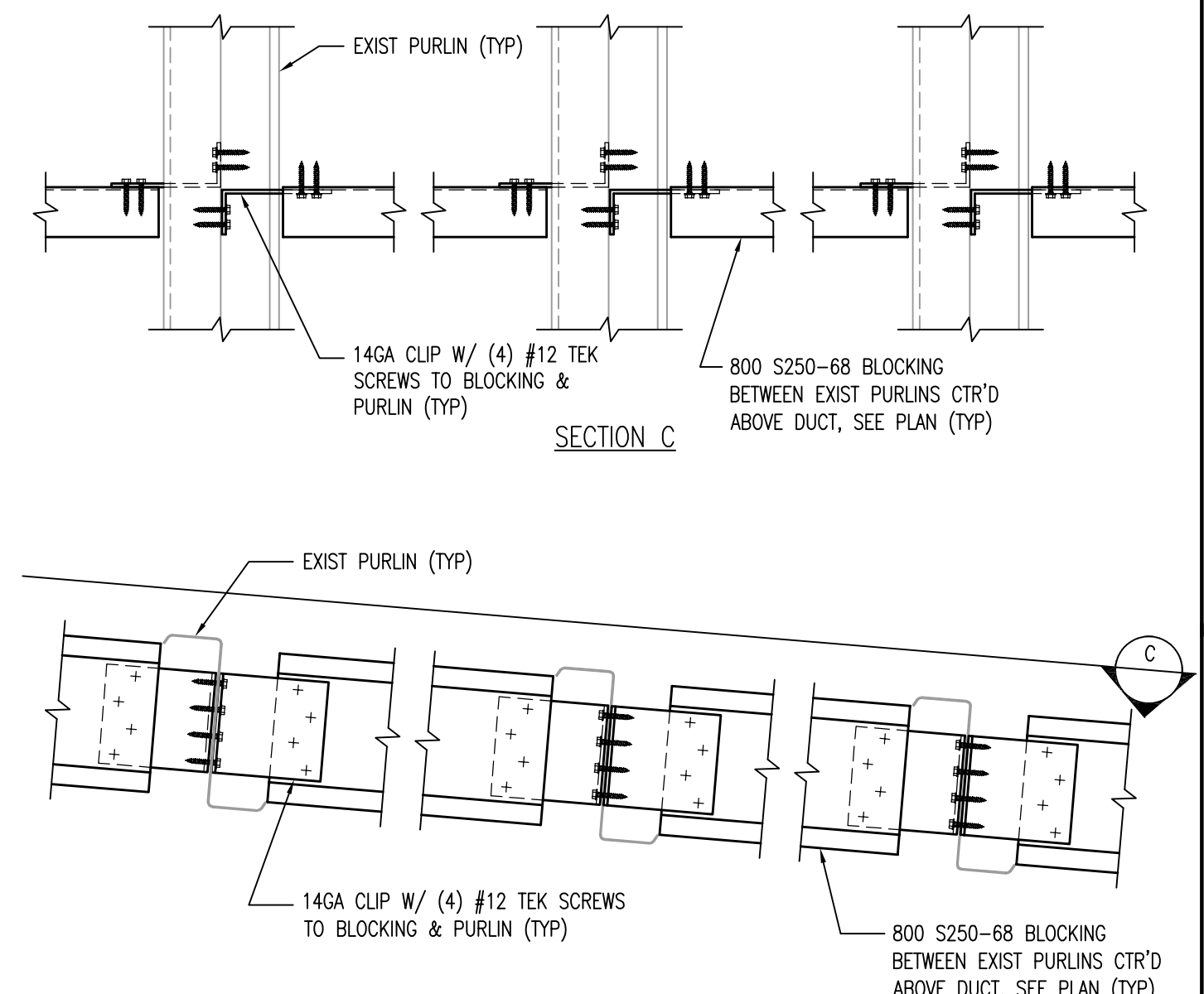
S701



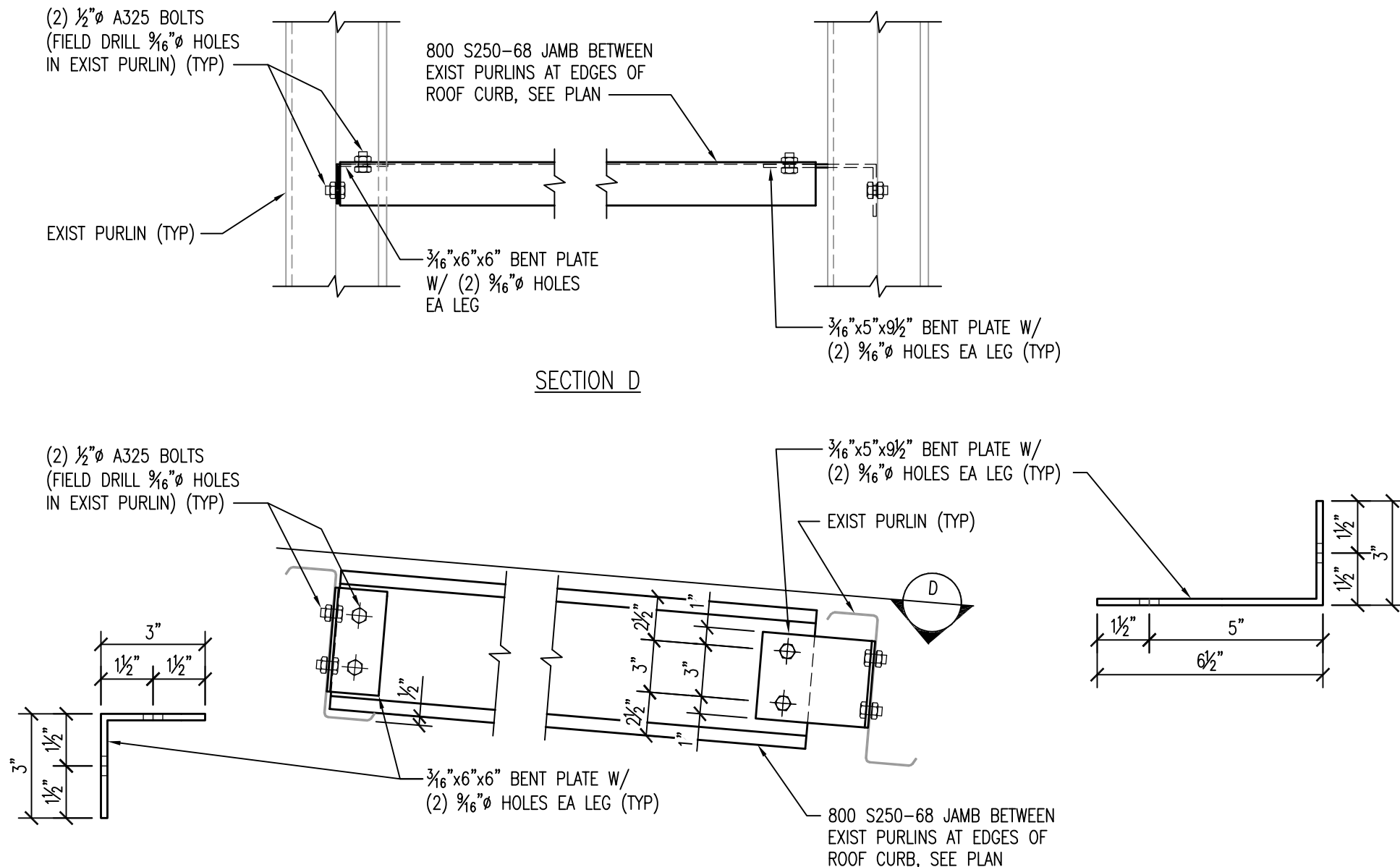
1 PURLIN STRENGTHENING @ CENTER OF BAY
 SCALE: NTS



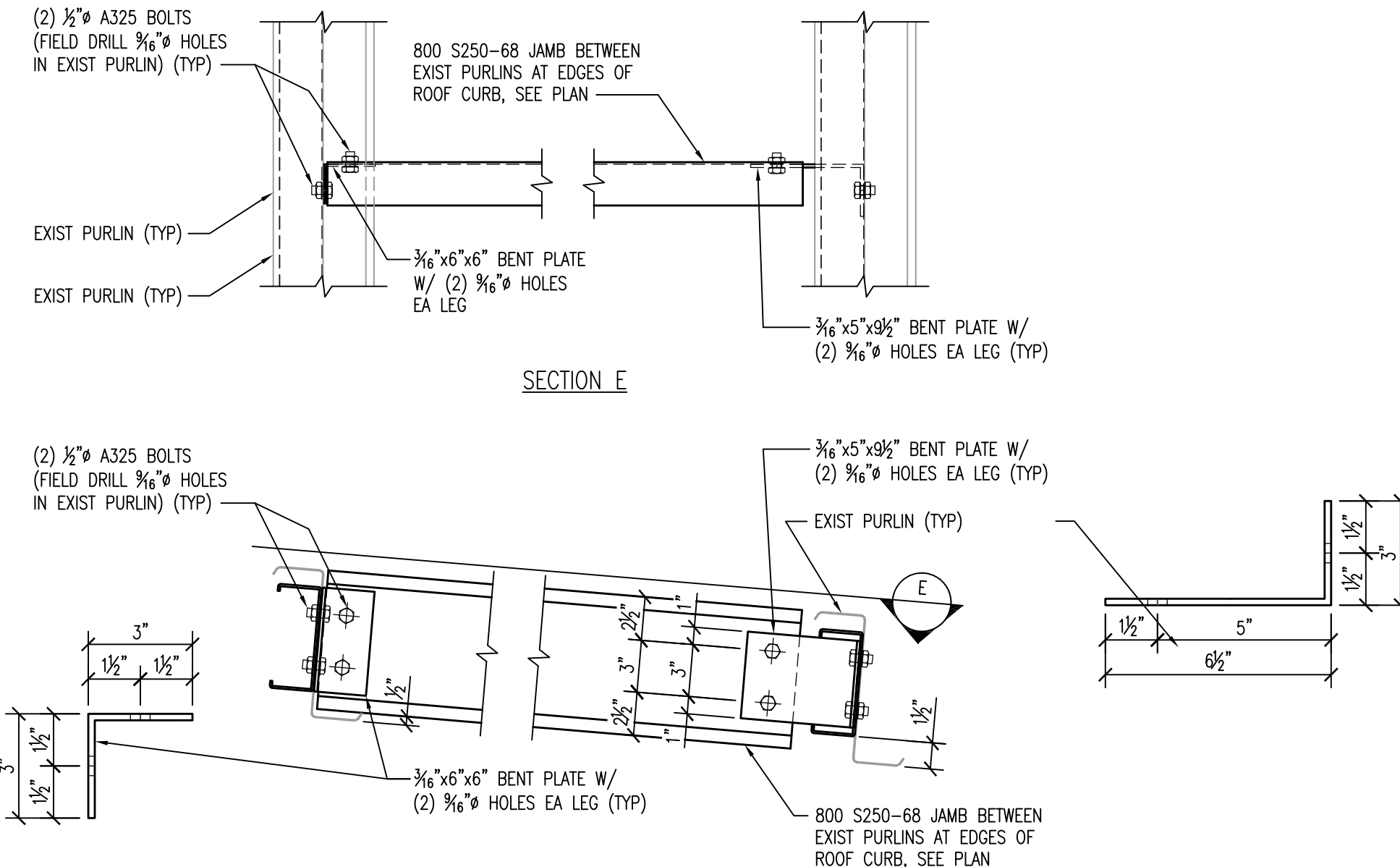
2 PURLIN BLOCKING
 SCALE: 1 1/2"=1'-0"



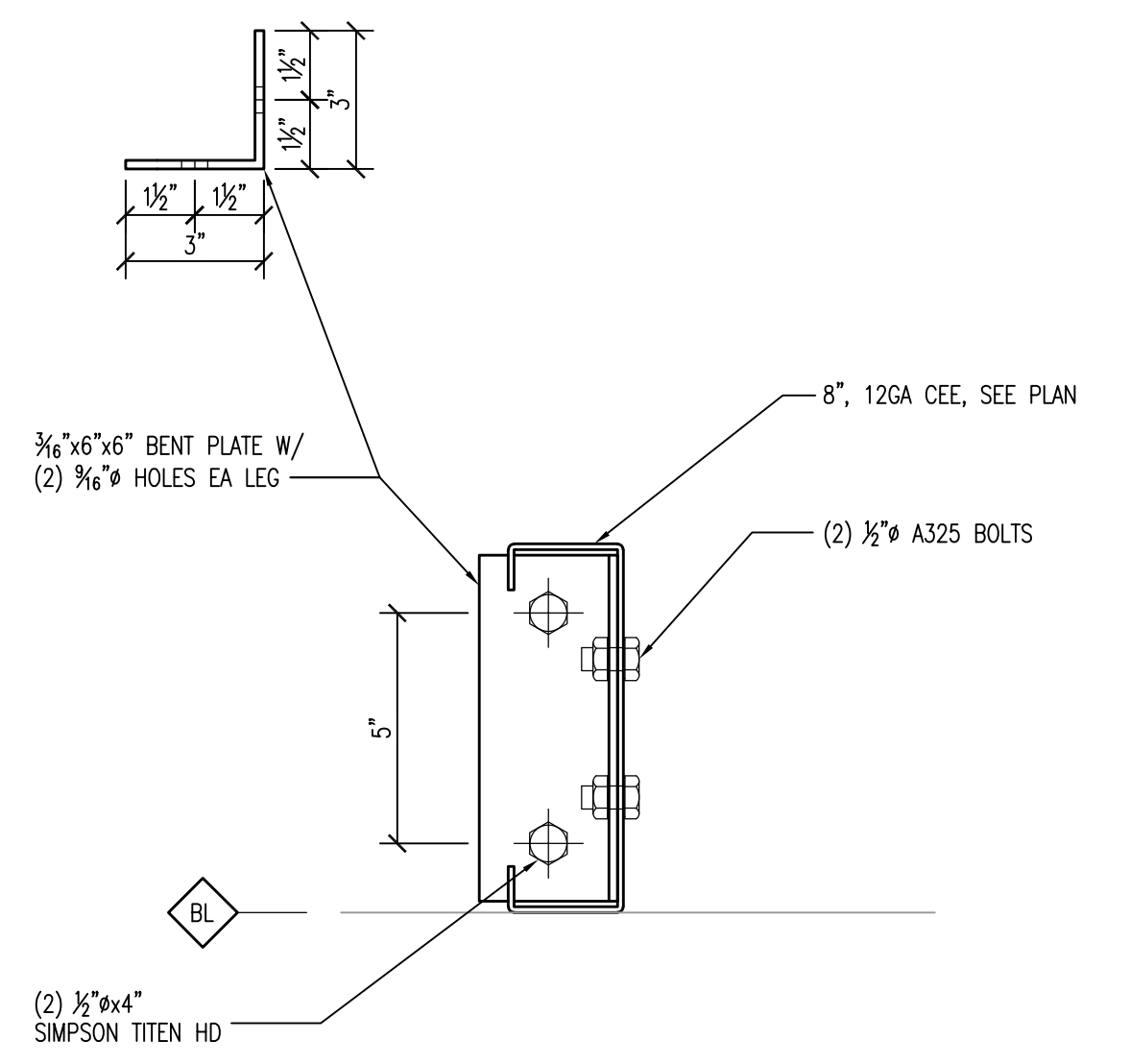
3 PURLIN BLOCKING
 SCALE: 1 1/2"=1'-0"



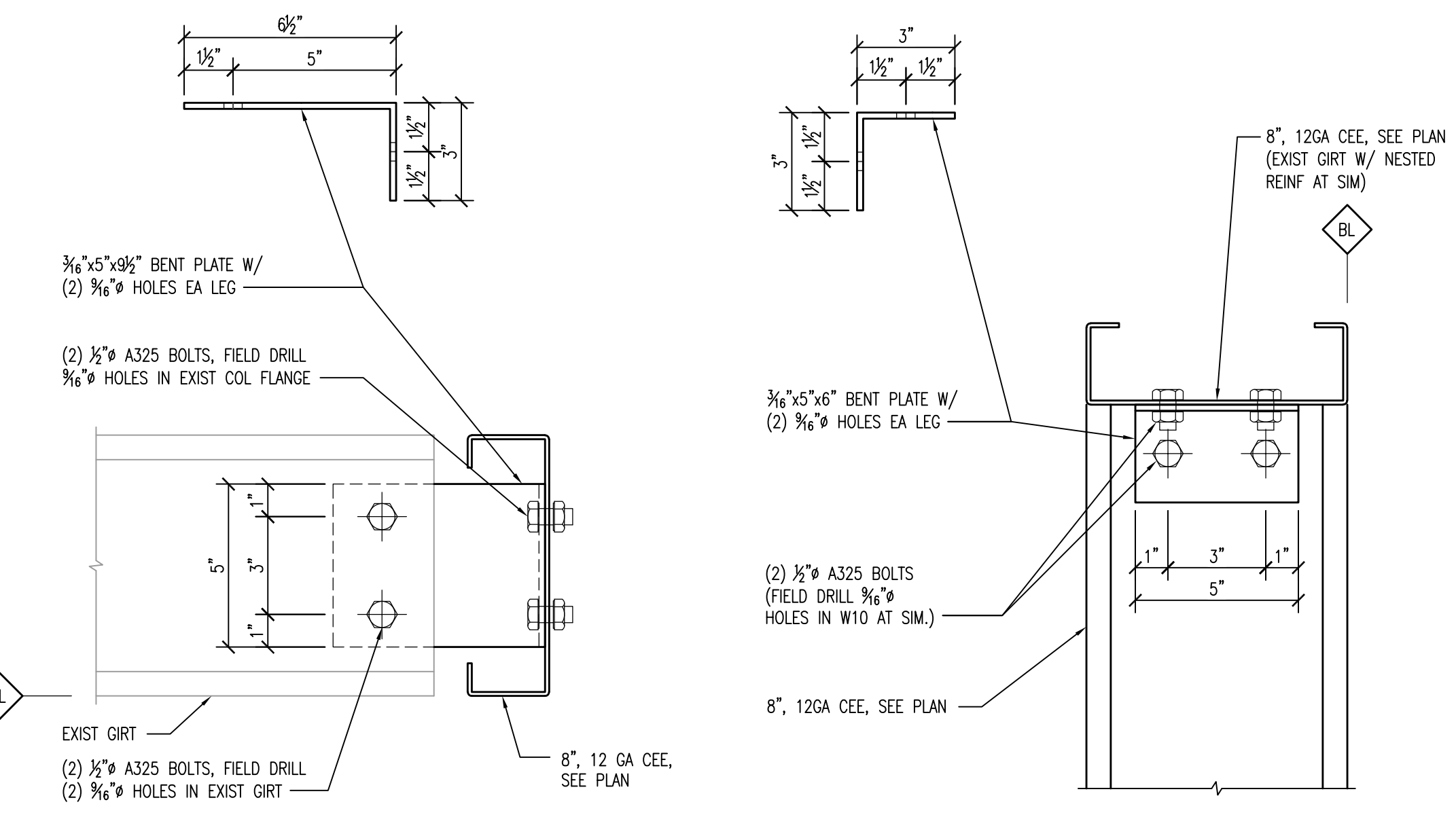
4 ROOF OPENING JAMB DETAIL
 SCALE: 1 1/2"=1'-0"



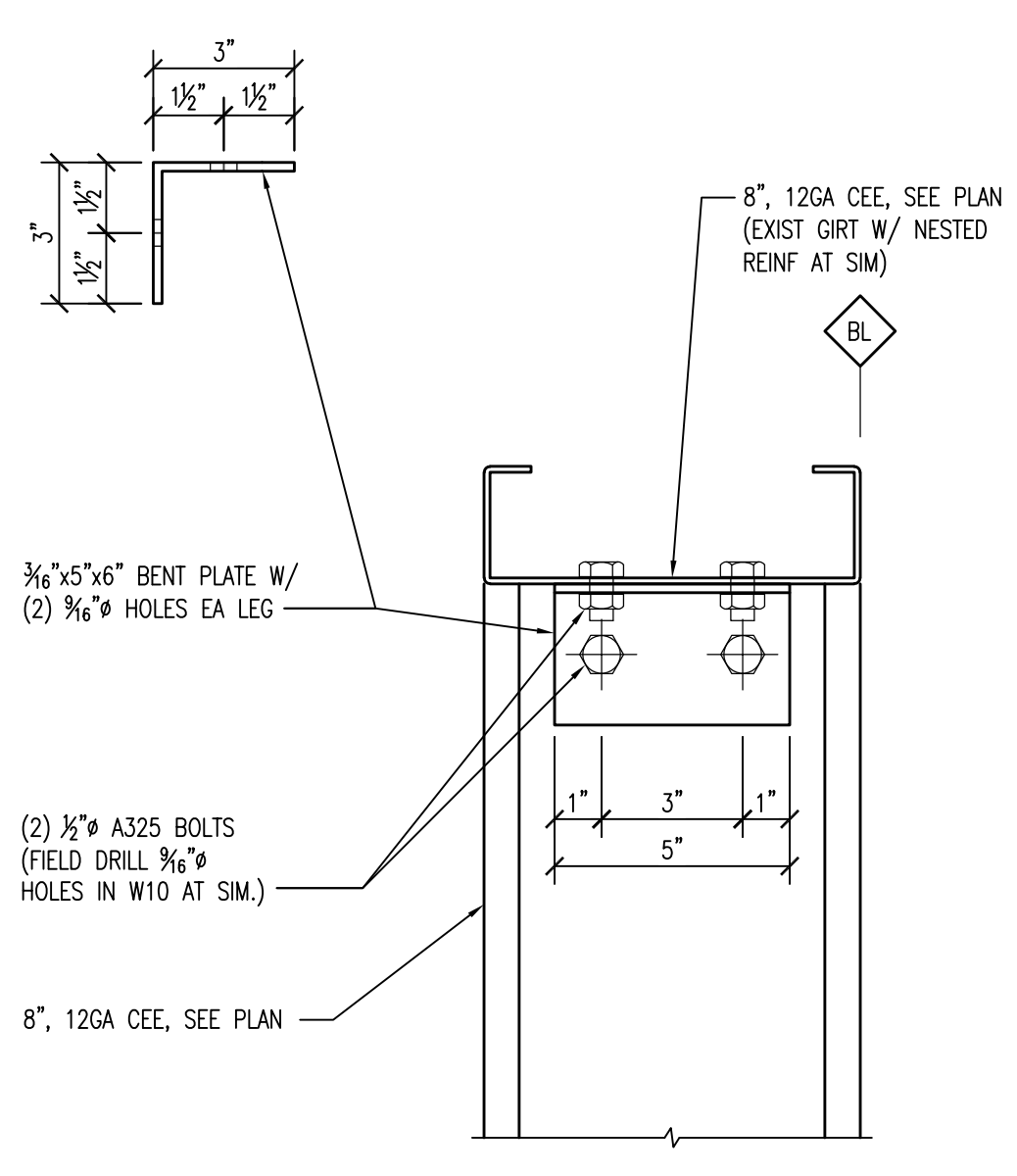
5 ROOF OPENING JAMB DETAIL
 SCALE: 1 1/2"=1'-0"



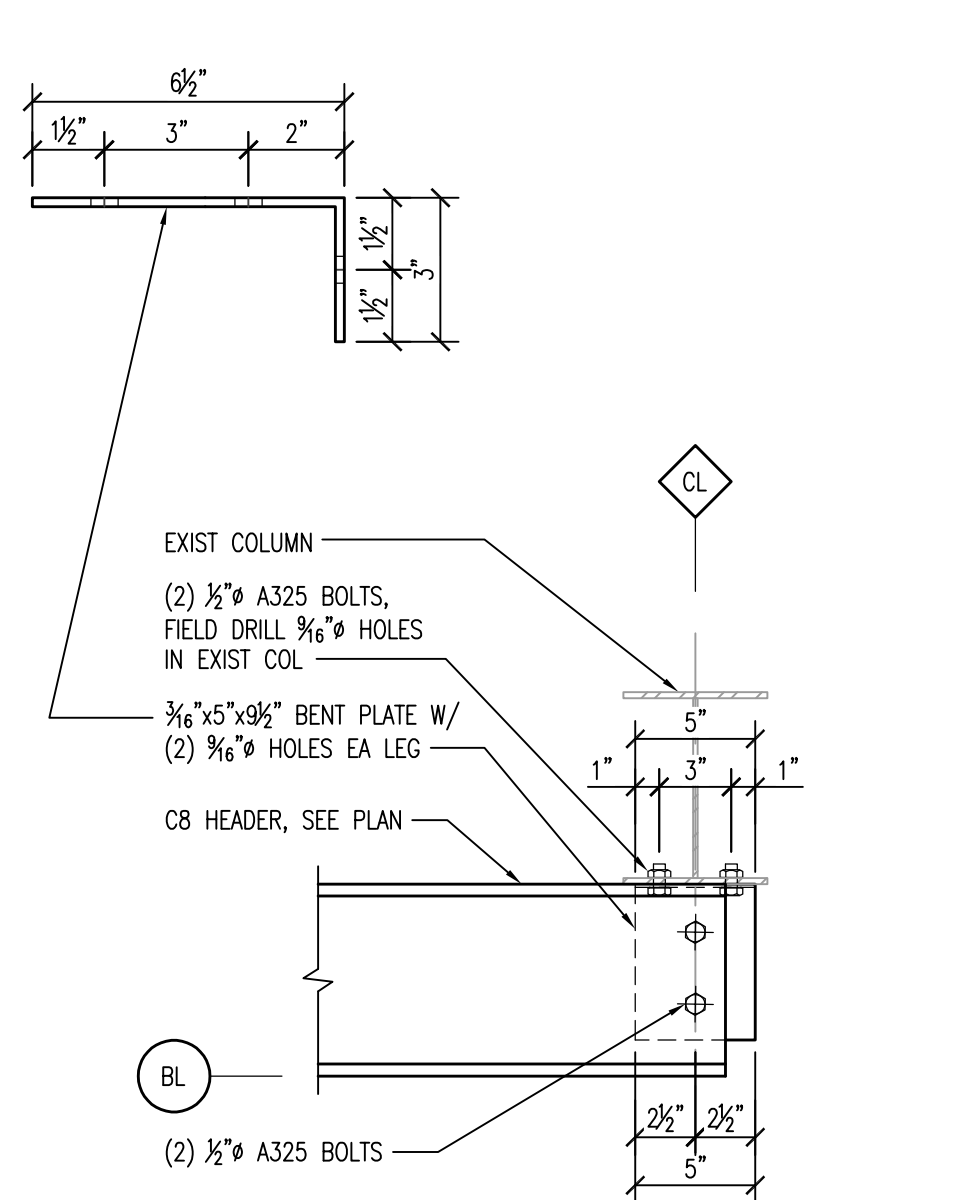
6 TYPICAL CONNECTION AT BASE OF JAMB
 SCALE: 3"=1'-0"



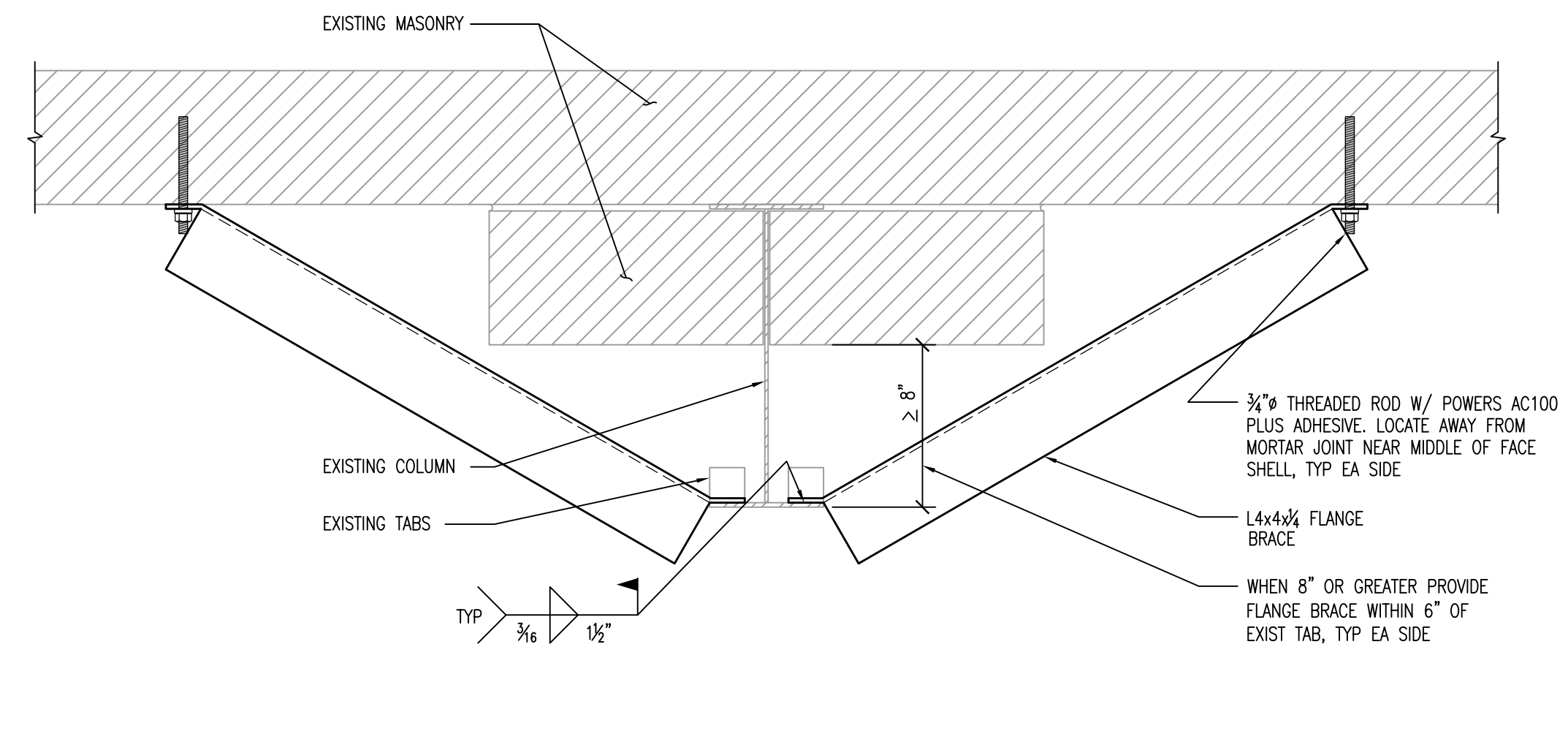
7 TYPICAL EXIST GIRTS TO NEW JAMB CONNECTION
 SCALE: 3"=1'-0"



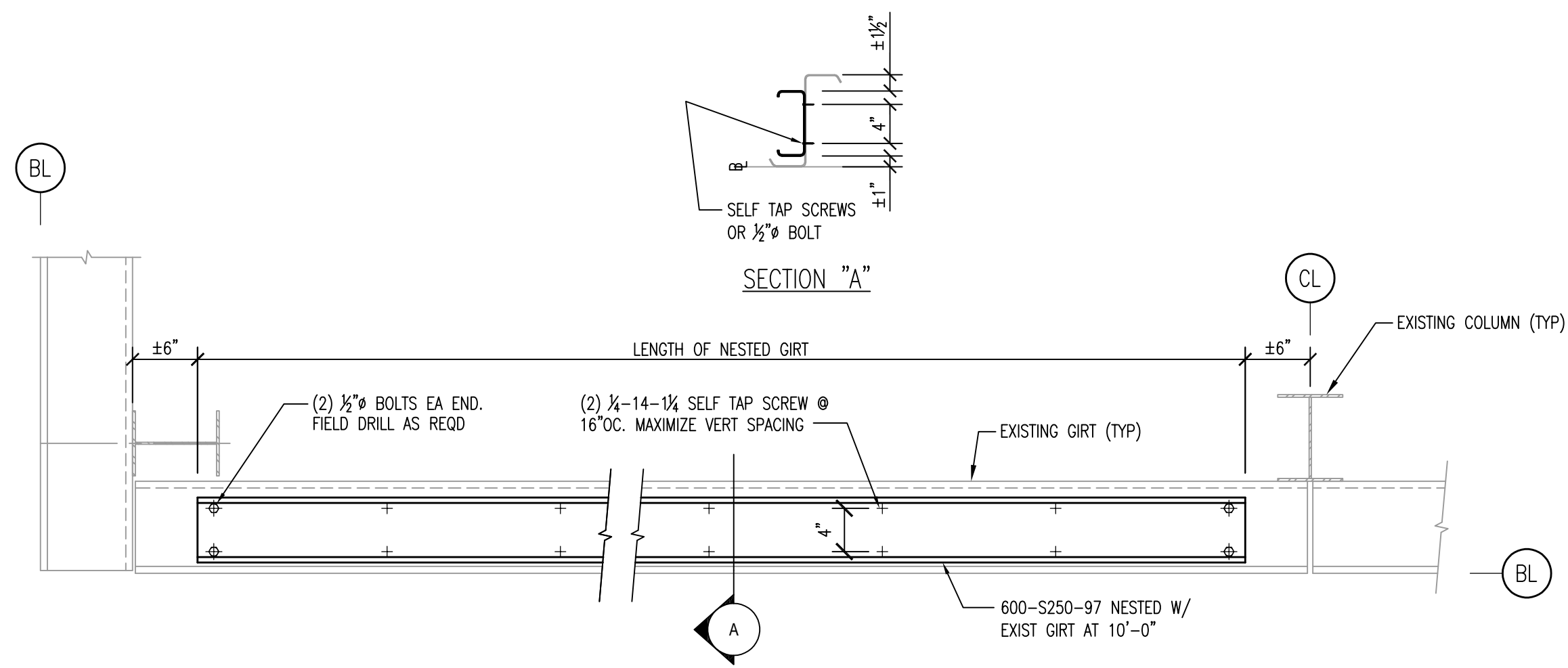
8 TYPICAL JAMB TO HEADER CONNECTION
 SCALE: 3"=1'-0"



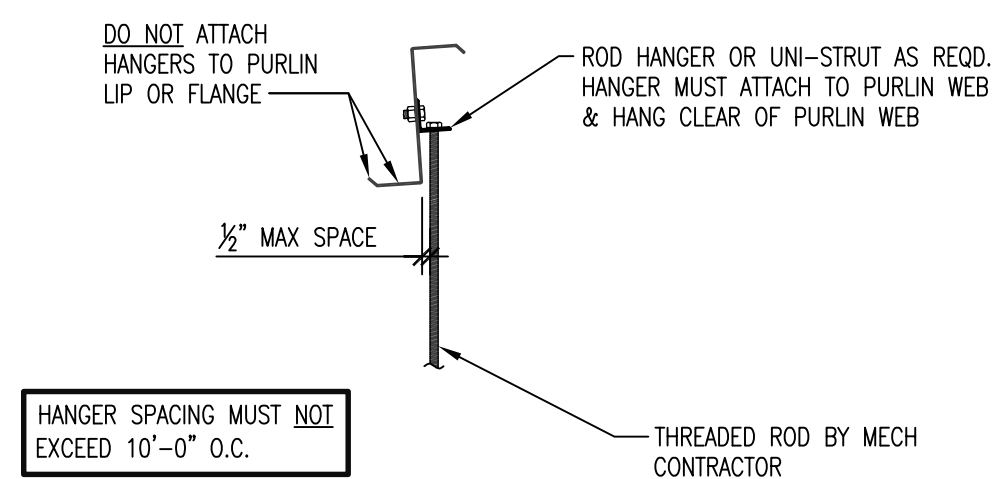
9 HEADER CONNECTION TO EXIST COLUMN
 SCALE: 1 1/2"=1'-0"



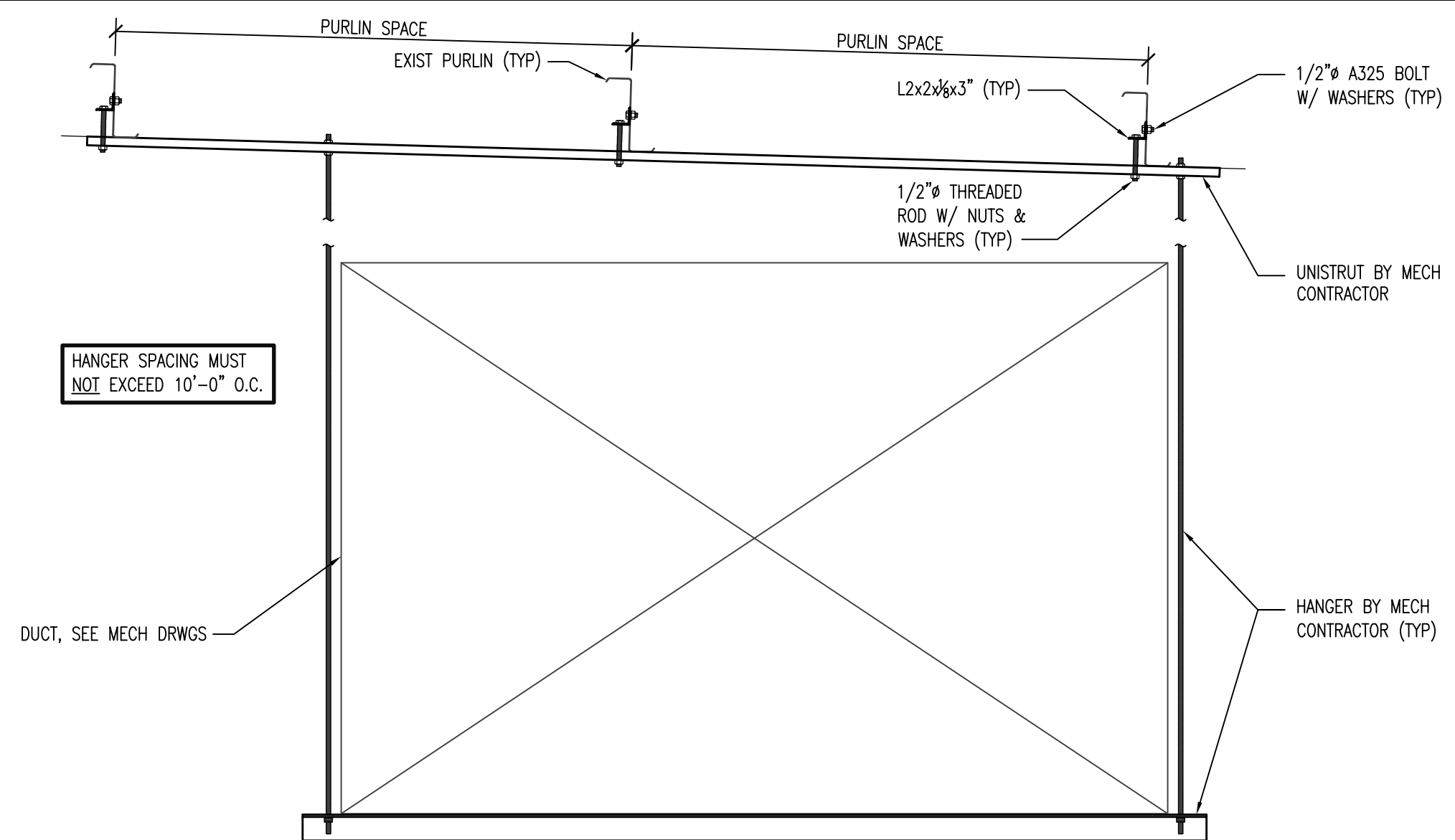
10 NEW FLANGE BRACES ON EXISTING COLUMN
 SCALE: 1 1/2"=1'-0"



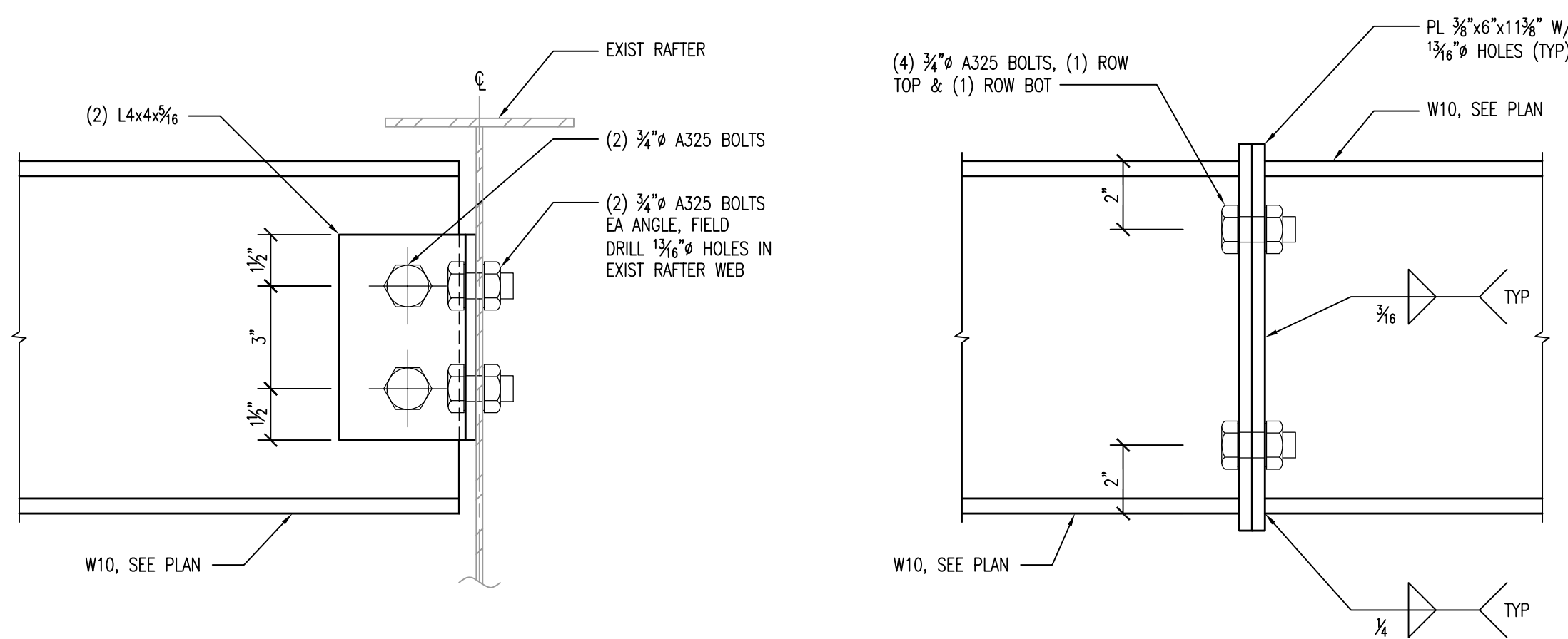
1 GIRT STRENGTHENING
S902 SCALE: 1"=1'-0"



2 RECOMMENDED HANGER CONNECTION
S902 SCALE: 1"=1'-0"

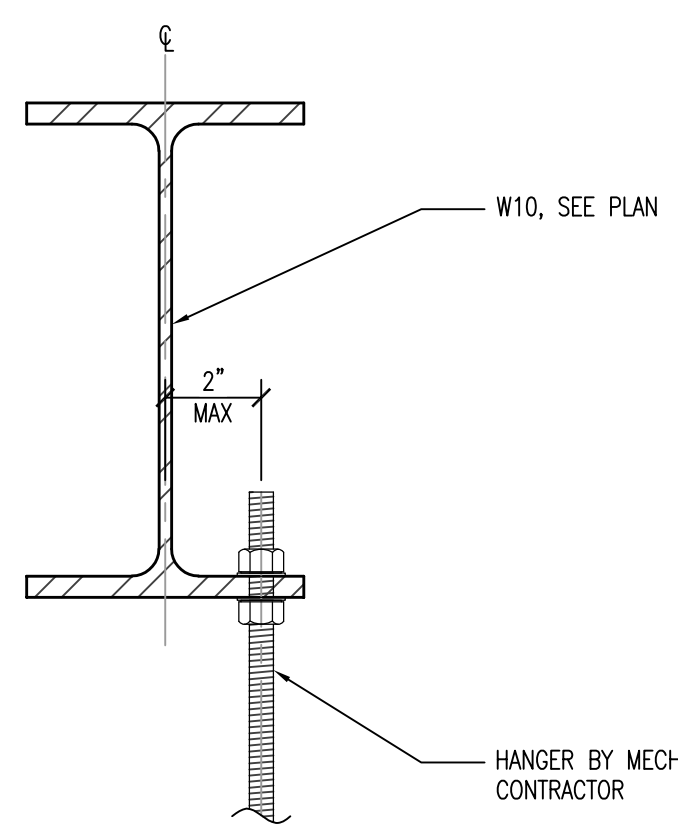


3 RECOMMENDED HANGER CONNECTION W/ UNISTRUT
S902 SCALE: 3/4"=1'-0"

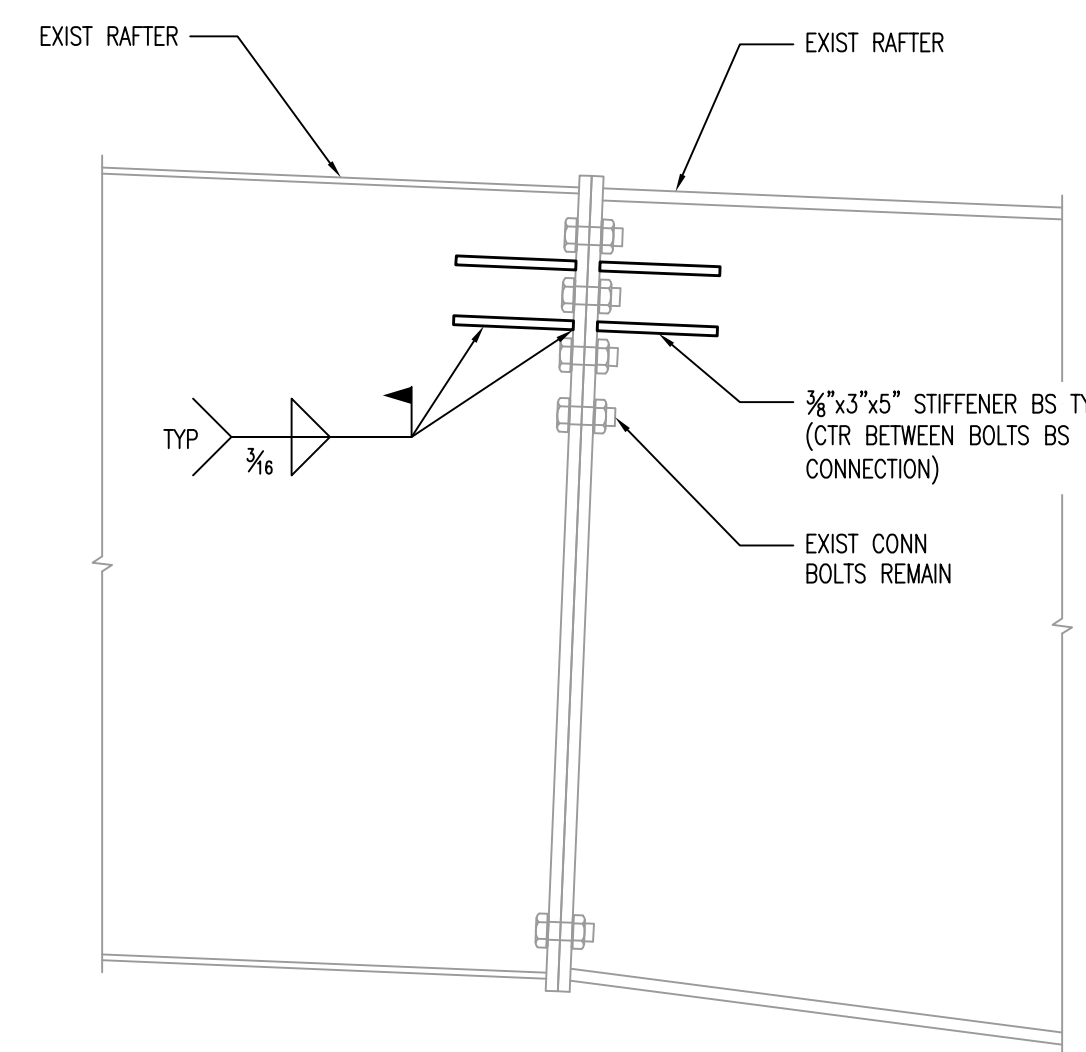


4 SECTION AT W10 SUPPORT BEAM CONN. TO EXIST RAFTER
S902 SCALE: 3"=1'-0"

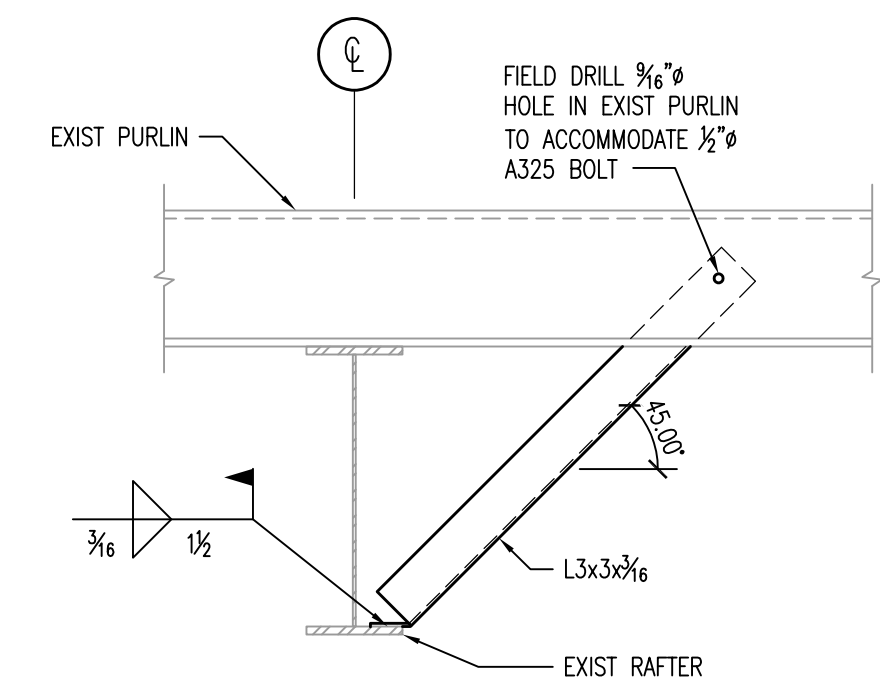
5 W10 SUPPORT BEAM SPLICE CONN.
S902 SCALE: 3"=1'-0"



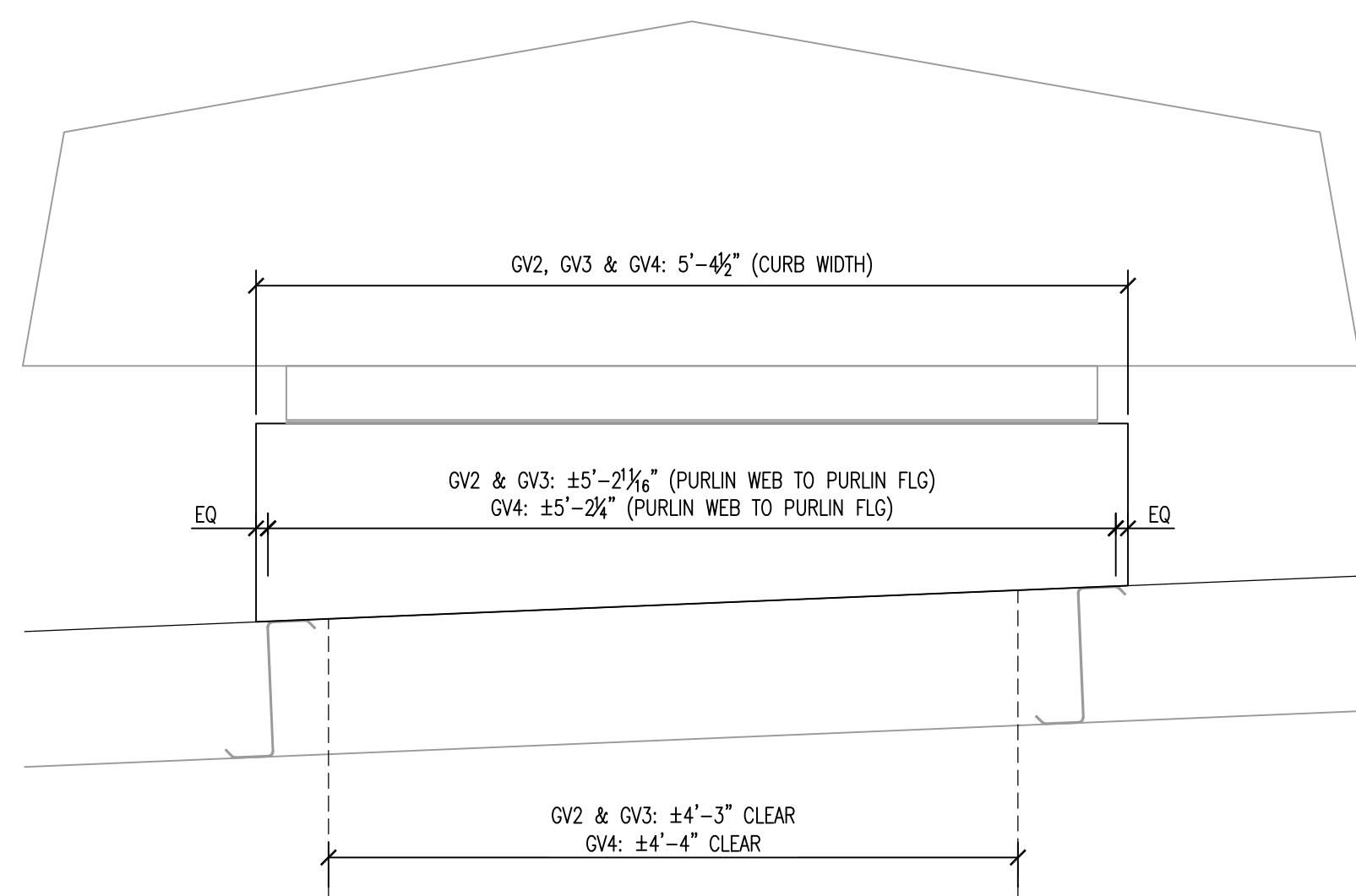
6 SECTION AT MECH HANGER TO W10 SUPPORT BEAM
S902 SCALE: 3"=1'-0"



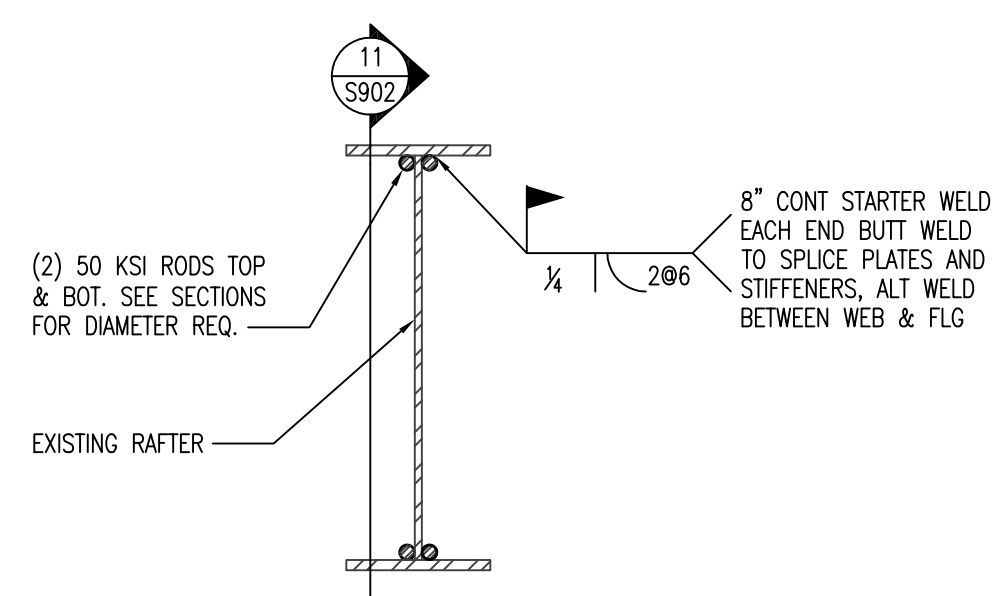
7 CONNECTION STRENGTHENING DETAIL
S902 SCALE: 1 1/2"=1'-0"



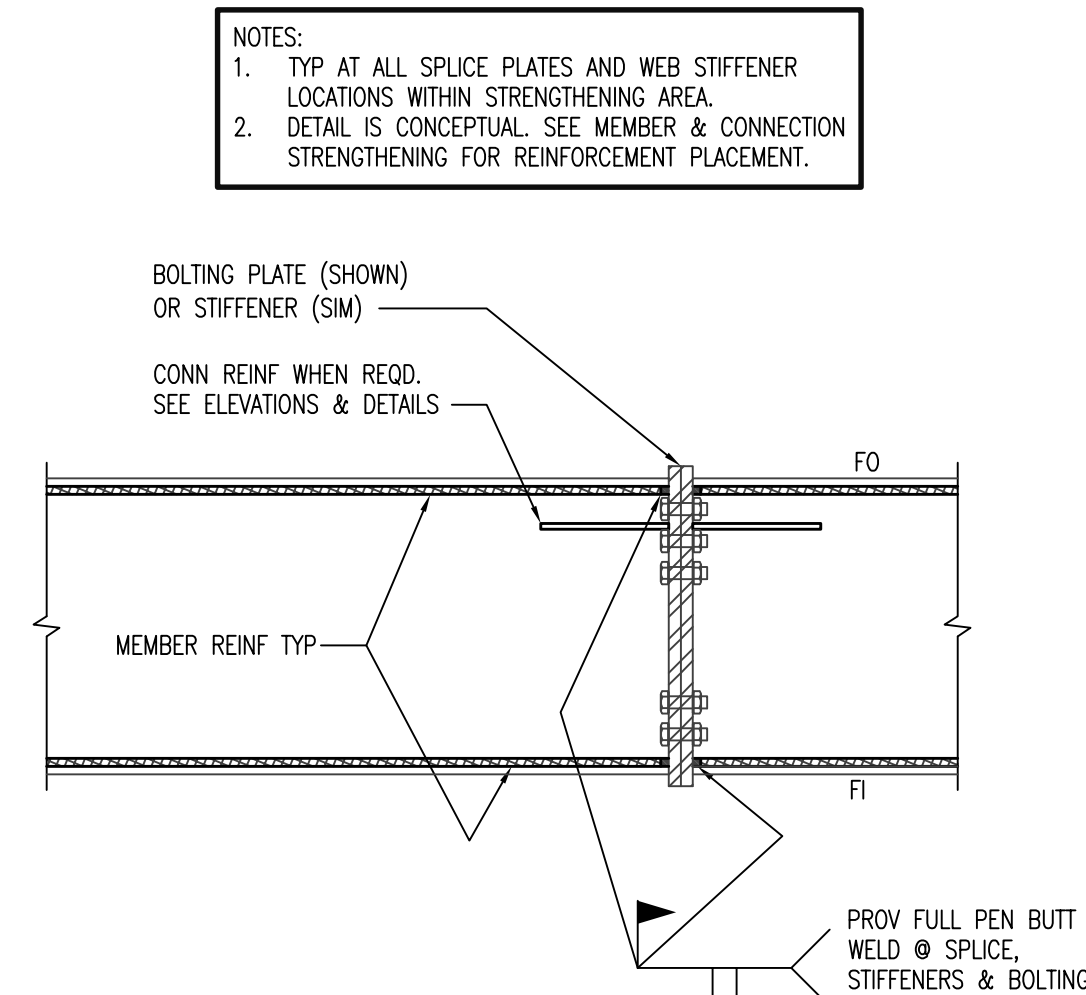
8 ADDITIONAL FLANGE BRACE DETAIL AT RAFTER
S902 SCALE: 1"=1'-0"



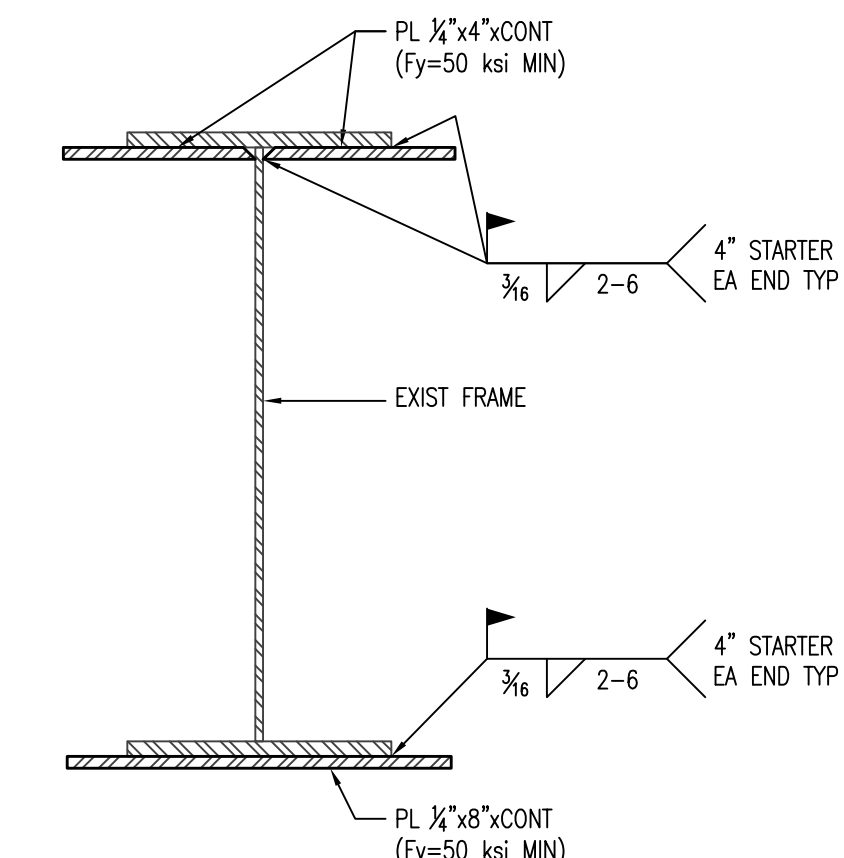
9 CURB LOCATION DETAIL
S902 SCALE: 1"=1'-0"



10 SECTION
S902 SCALE: 1 1/2"=1'-0"

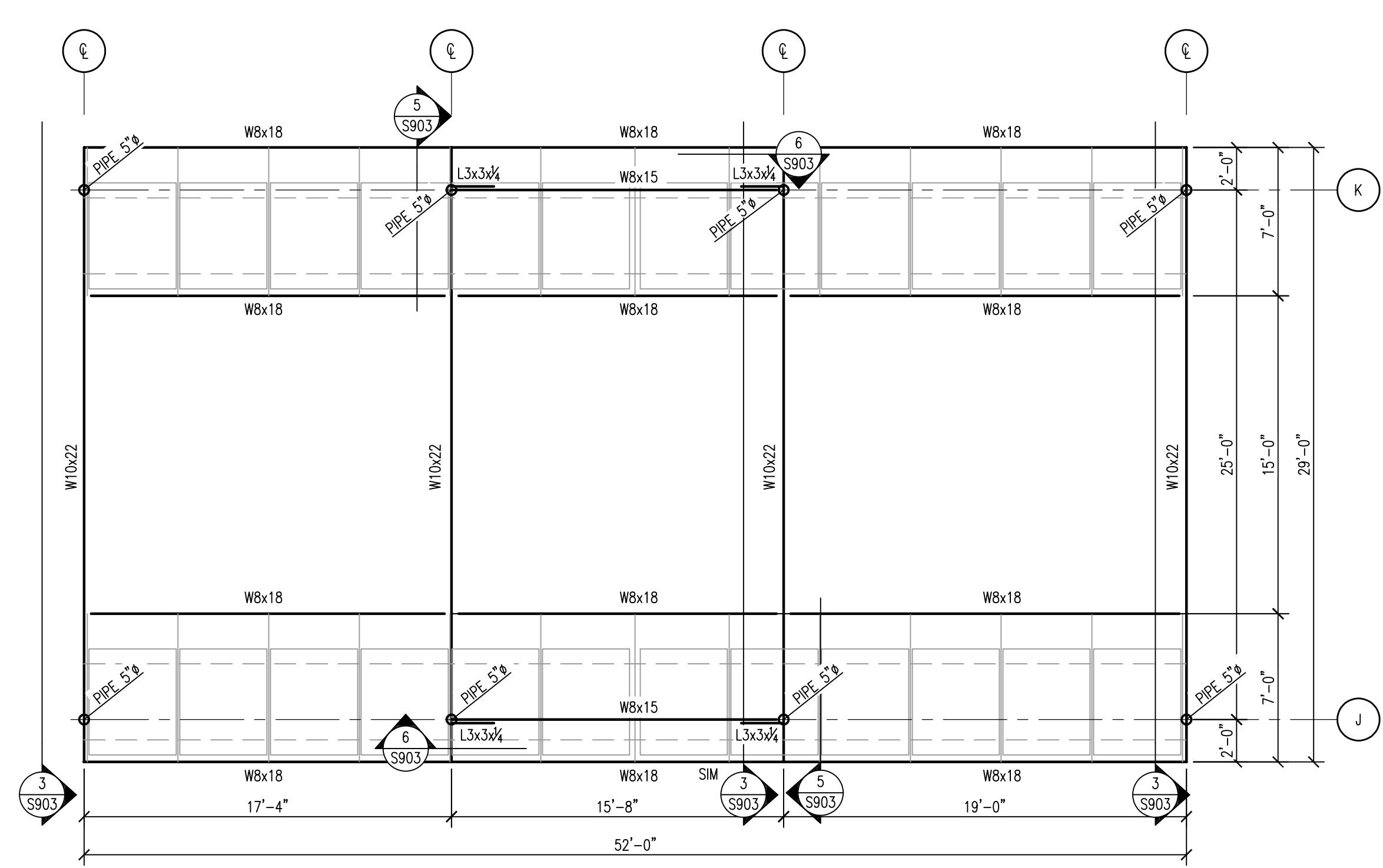


11 SECTION
S902 SCALE: 1"=1'-0"

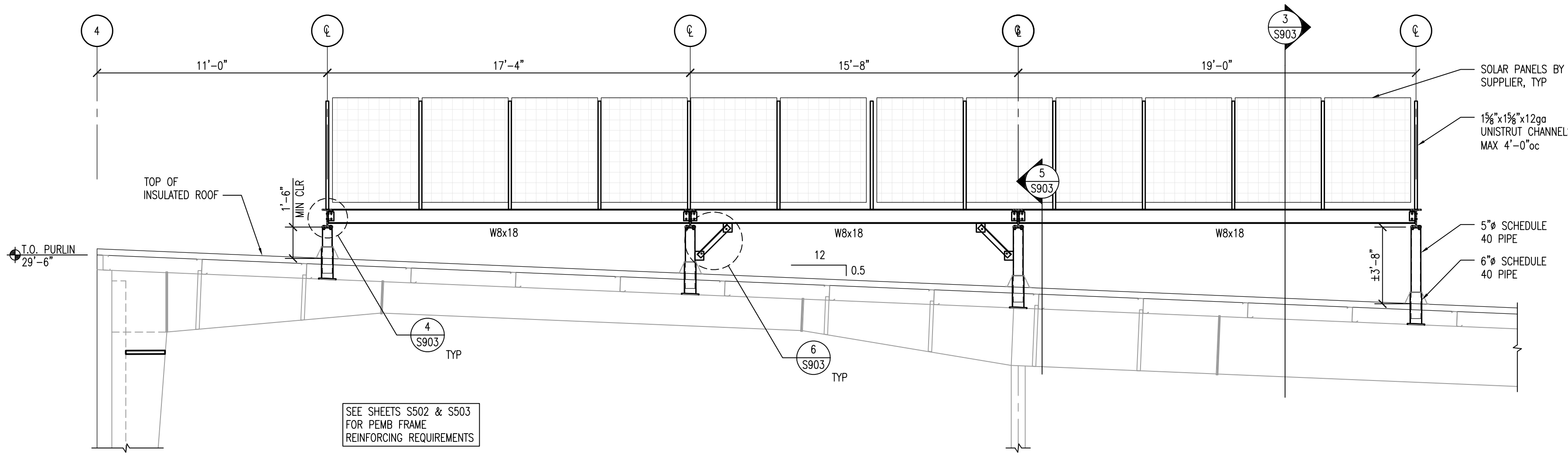


NOTE:
1. START & STOP REINFORCING AT SPLICE PLATES & WEB STIFFENERS.
2. UNINSTALL EXISTING FLANGE BRACES AND PURLIN CONNECTIONS AS REQUIRED TO ACCOMMODATE INSTALLATION OF COVER PLATES. FIELD DRILL 3/8" HOLE IN COVER PLATES AS REQUIRED.

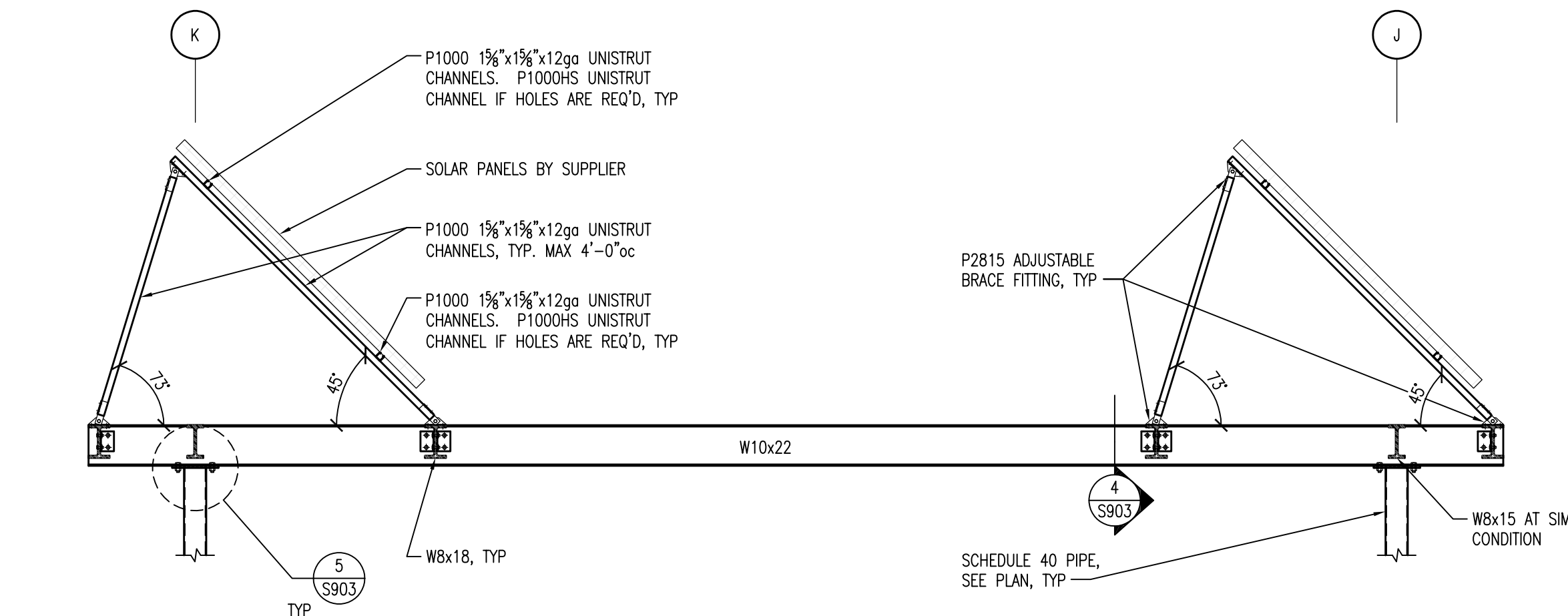
12 FRAME STRENGTHENING
S902 SCALE: 3"=1'-0"



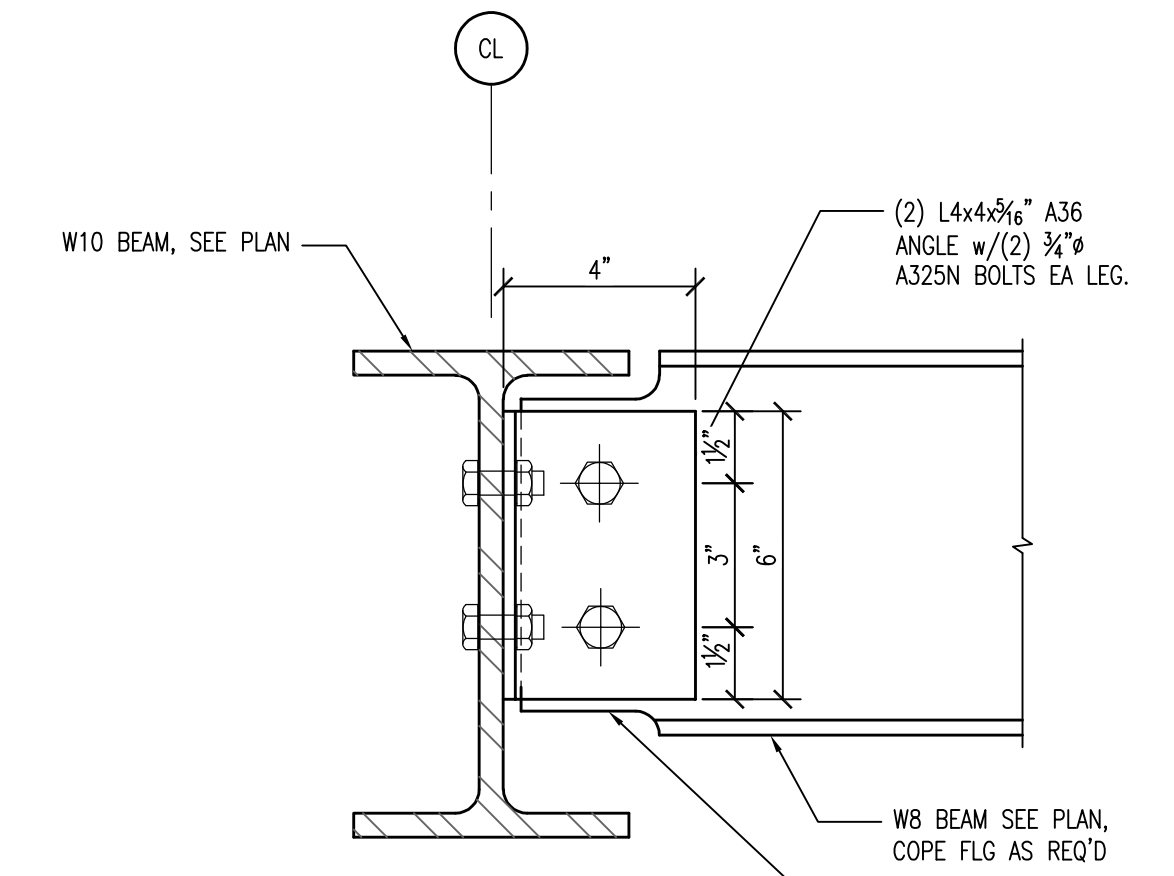
1 SOLAR PANEL STEEL FRAMING PLAN
S903 SCALE: 3/16"=1'-0"



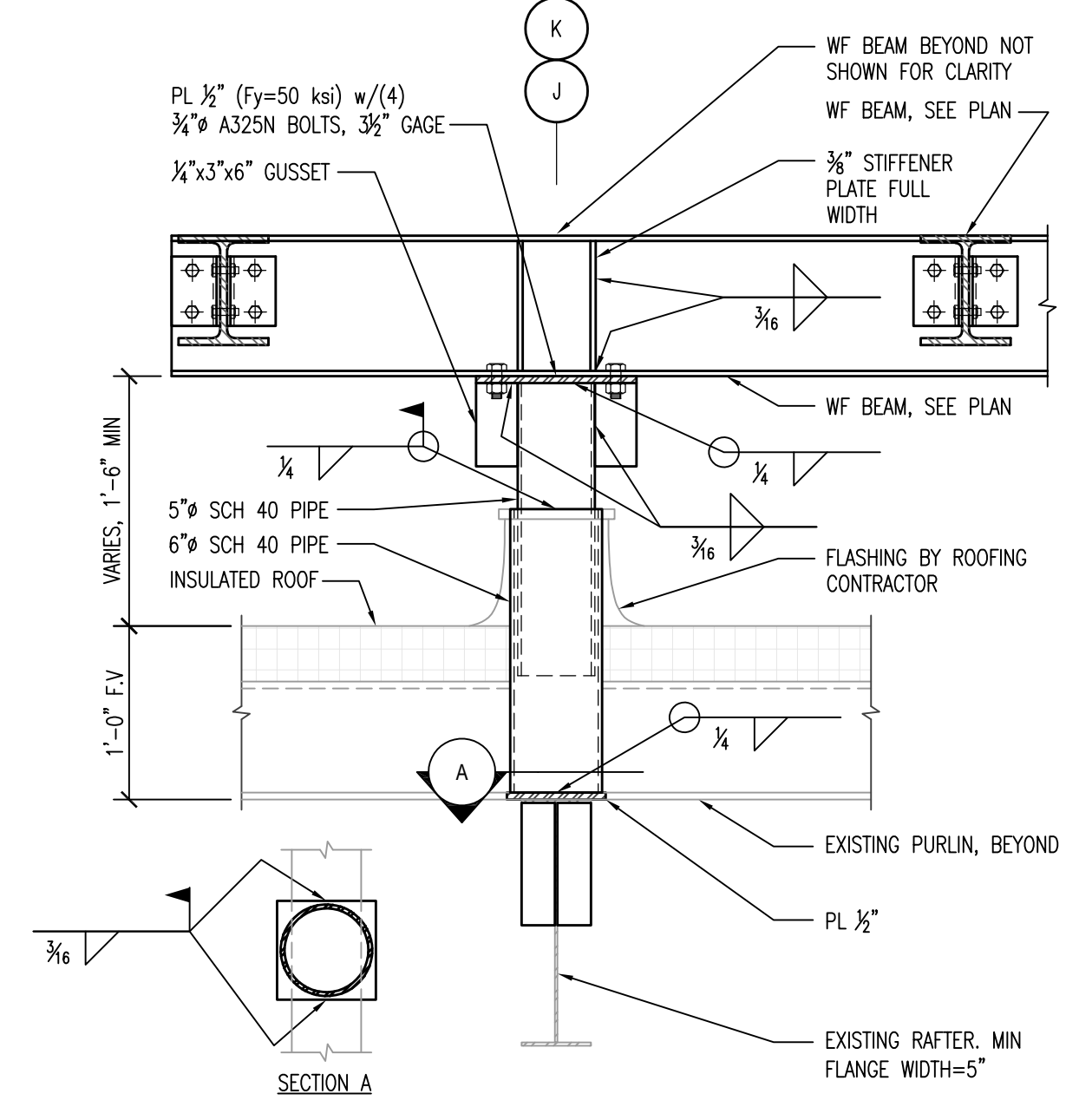
2 FRAMING SECTION AT J AND K
S903 SCALE: 1/4"=1'-0"



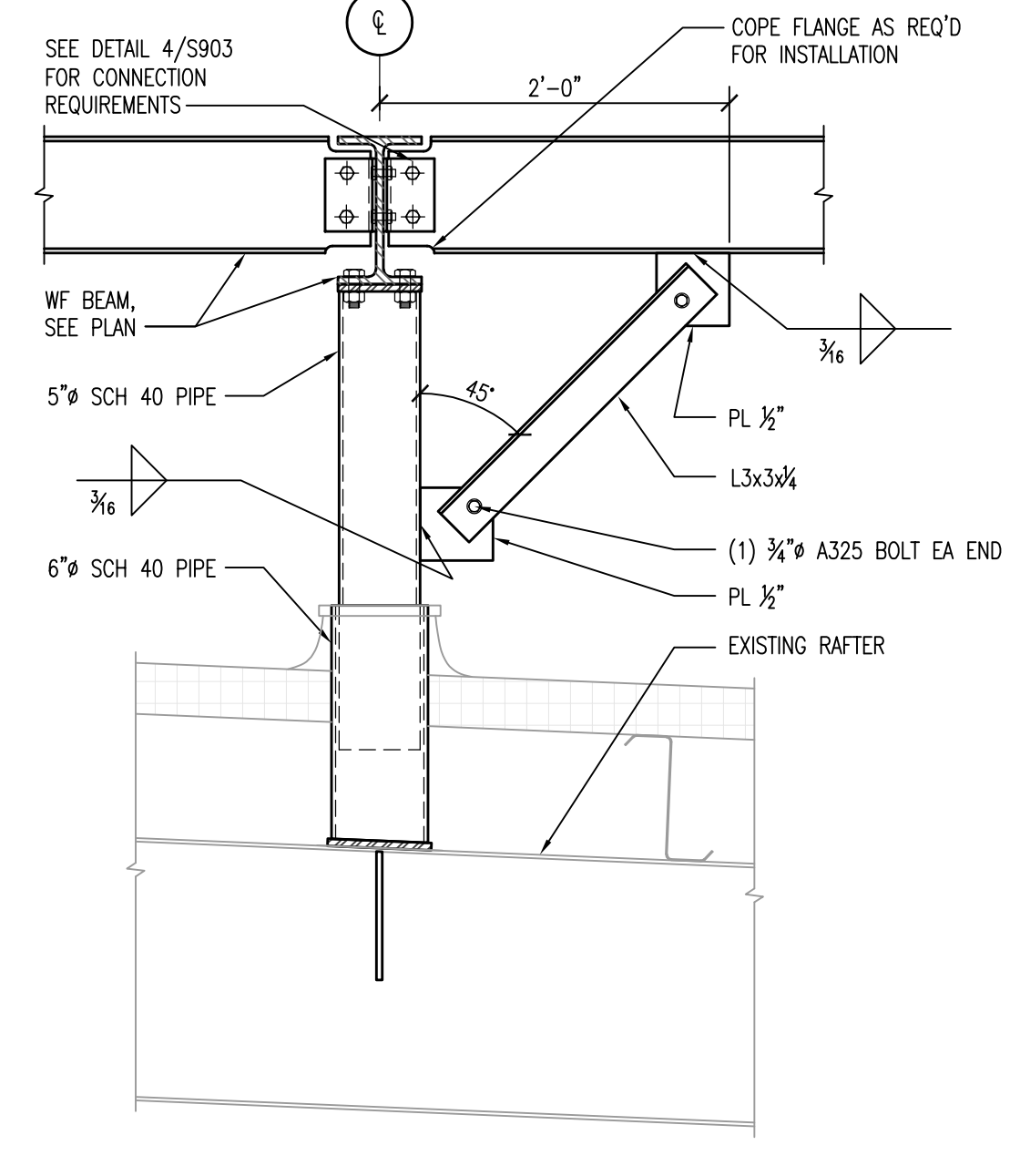
3 SOLAR PANEL SECTION
S903 SCALE: 3/8"=1'-0"



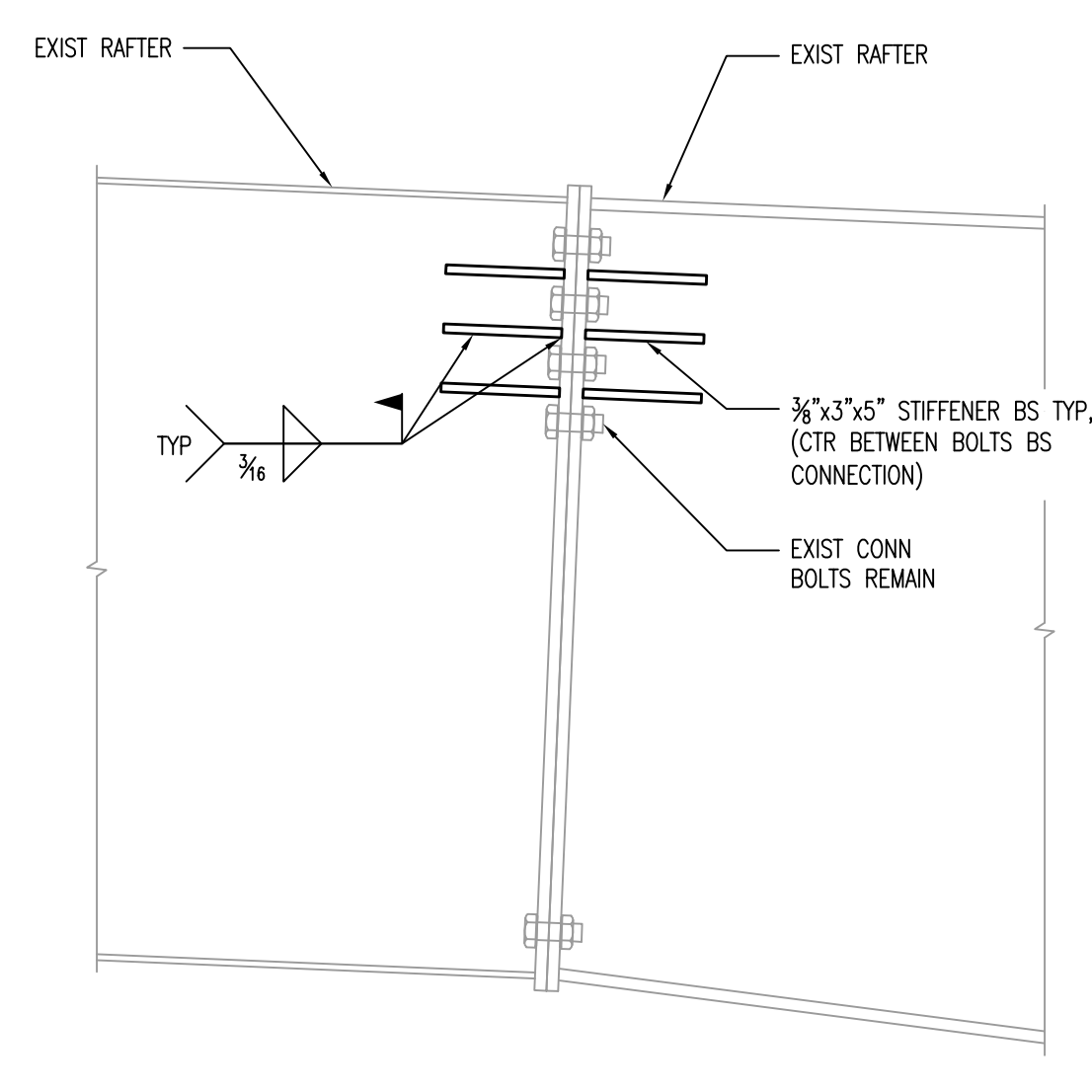
4 TYP W8 TO W10 CONN
S903 SCALE: 3"=1'-0"



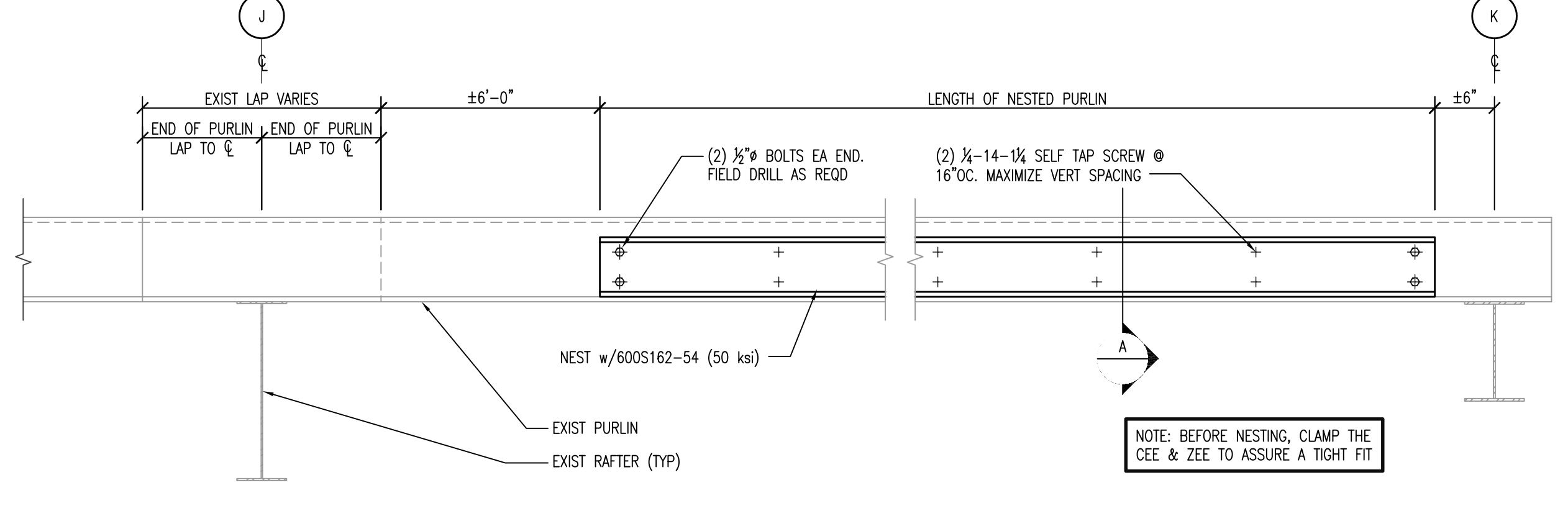
5 PIPE SUPPORT DETAIL
S903 SCALE: 1"=1'-0"



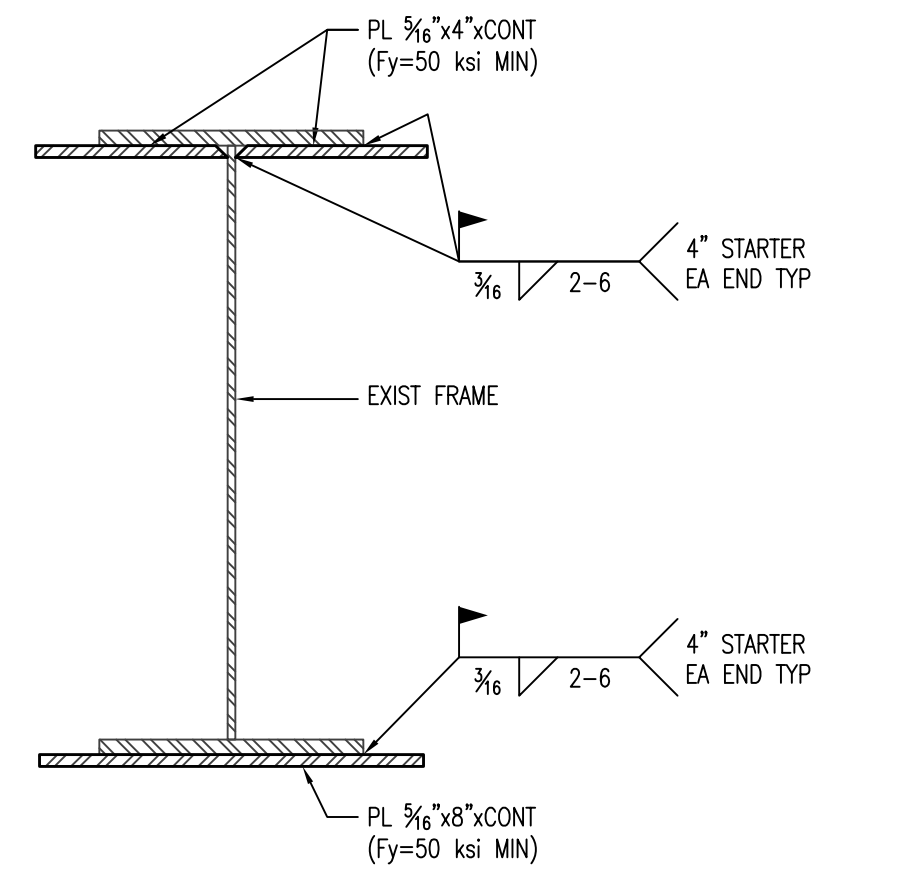
6 ANGLE BRACING
S903 SCALE: 1"=1'-0"



7 CONNECTION STRENGTHENING DETAIL
S903 SCALE: 1 1/2"=1'-0"



8 PURLIN STRENGTHENING @ CENTER OF BAY
S903 SCALE: NTS



9 FRAME STRENGTHENING
S903 SCALE: 3"=1'-0"

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EAST STREET OFFICE REMODEL

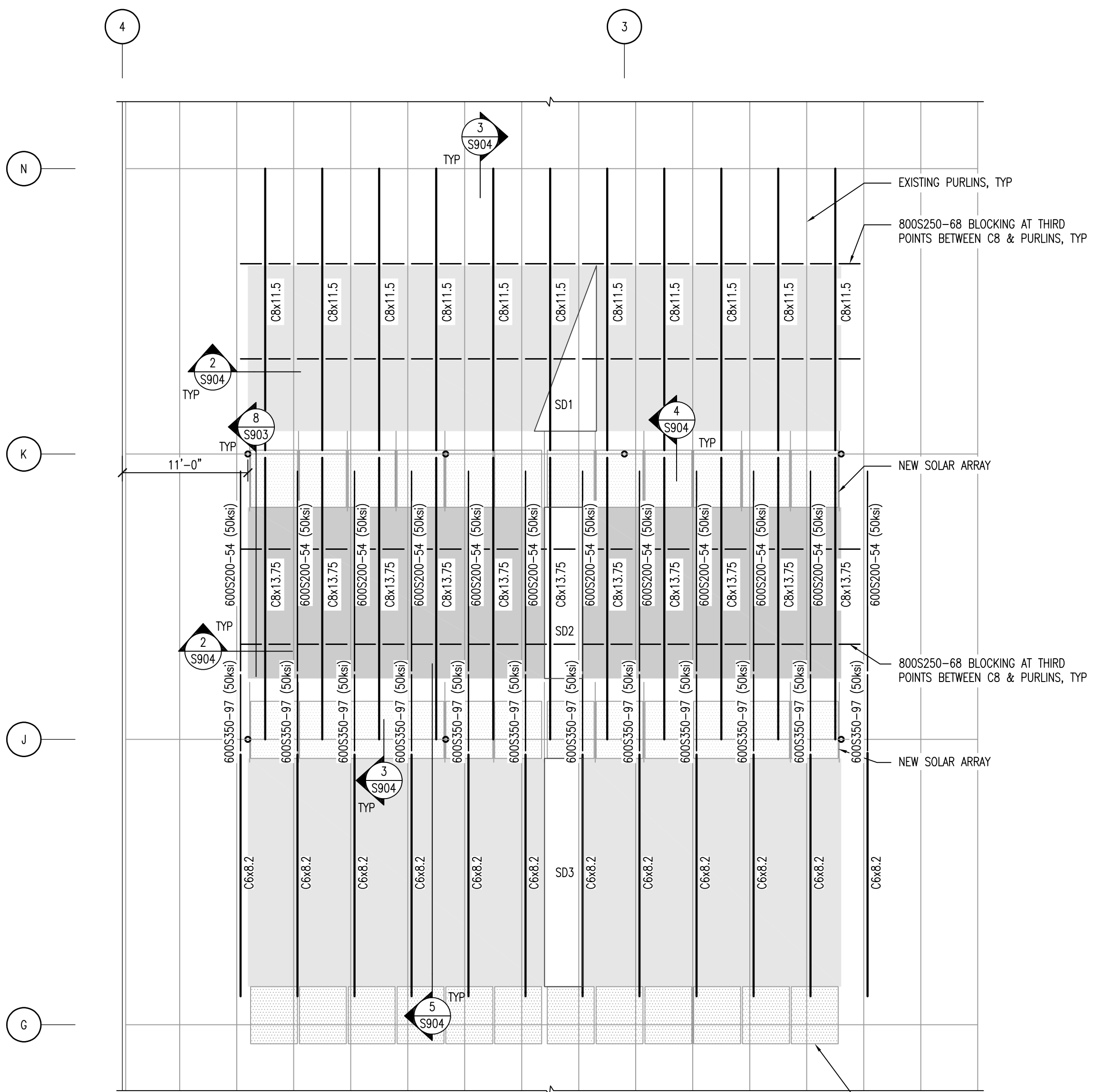
4602 SYCAMORE AVENUE
MADISON, WI 53704

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02-28-2019 FOR CONSTRUCTION
05-15-2019 BID SET

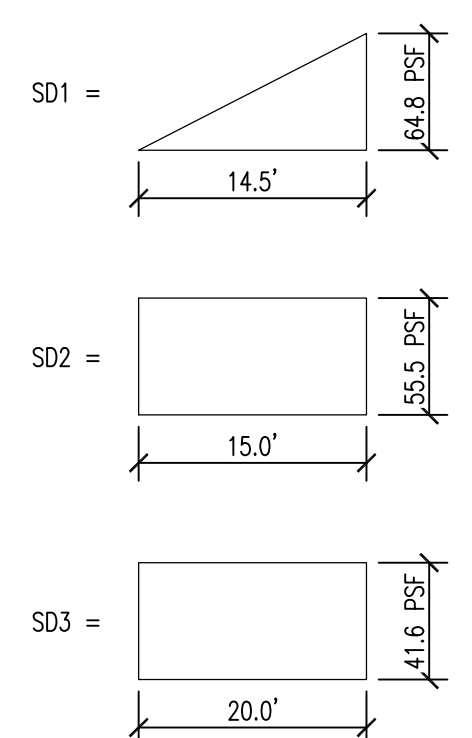
STEEL DETAILS

PROJECT #: H1620
SHEET NUMBER
S903



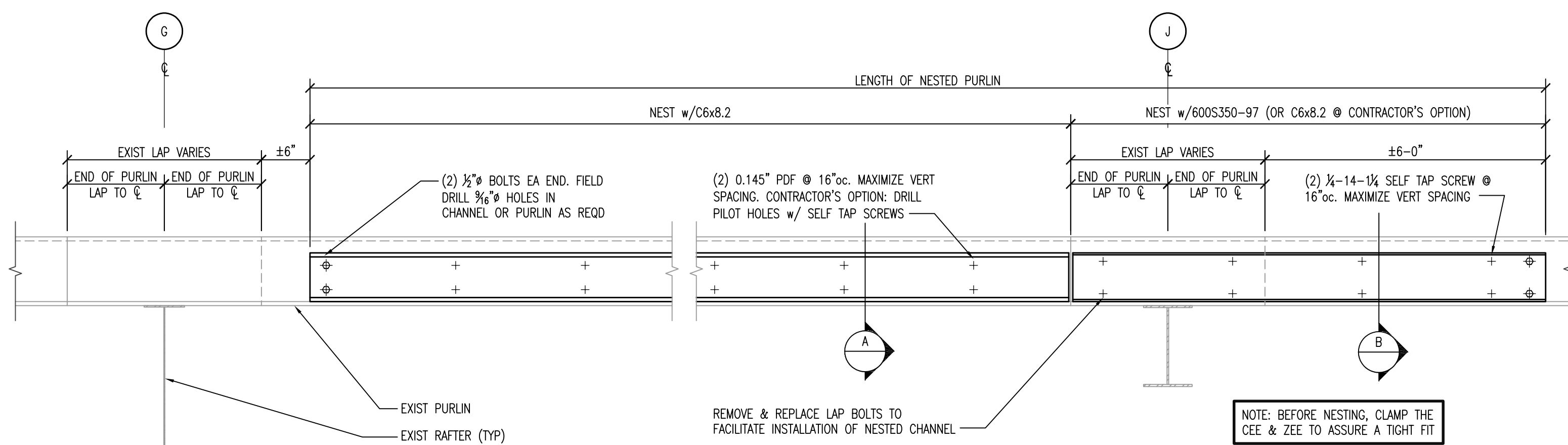
SNOW LOADING DIAGRAM

- NOTES:
 1) SNOW DRIFT SUPERIMPOSED ON ROOF UNIFORM/BASE SNOW
 2) SNOW DRIFT DETERMINED USING ASCE SNOW LOADS ON SOLAR-PANELED ROOFS



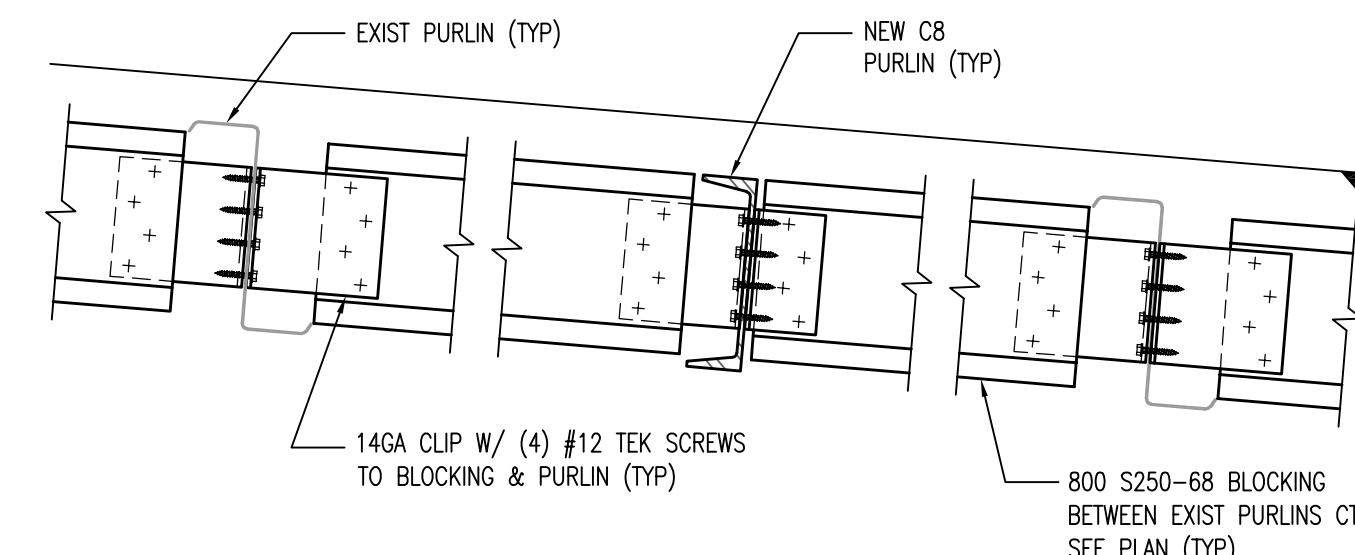
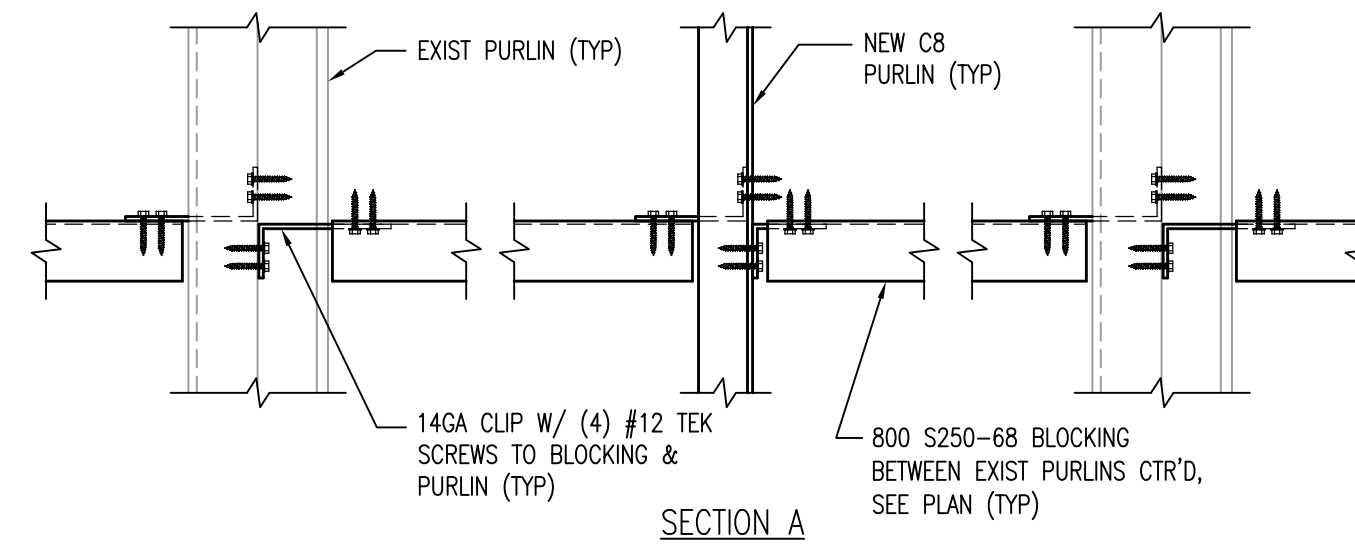
1 PURLIN REINFORCING FRAMING PLAN

S904 SCALE: 1/8"=1'-0"



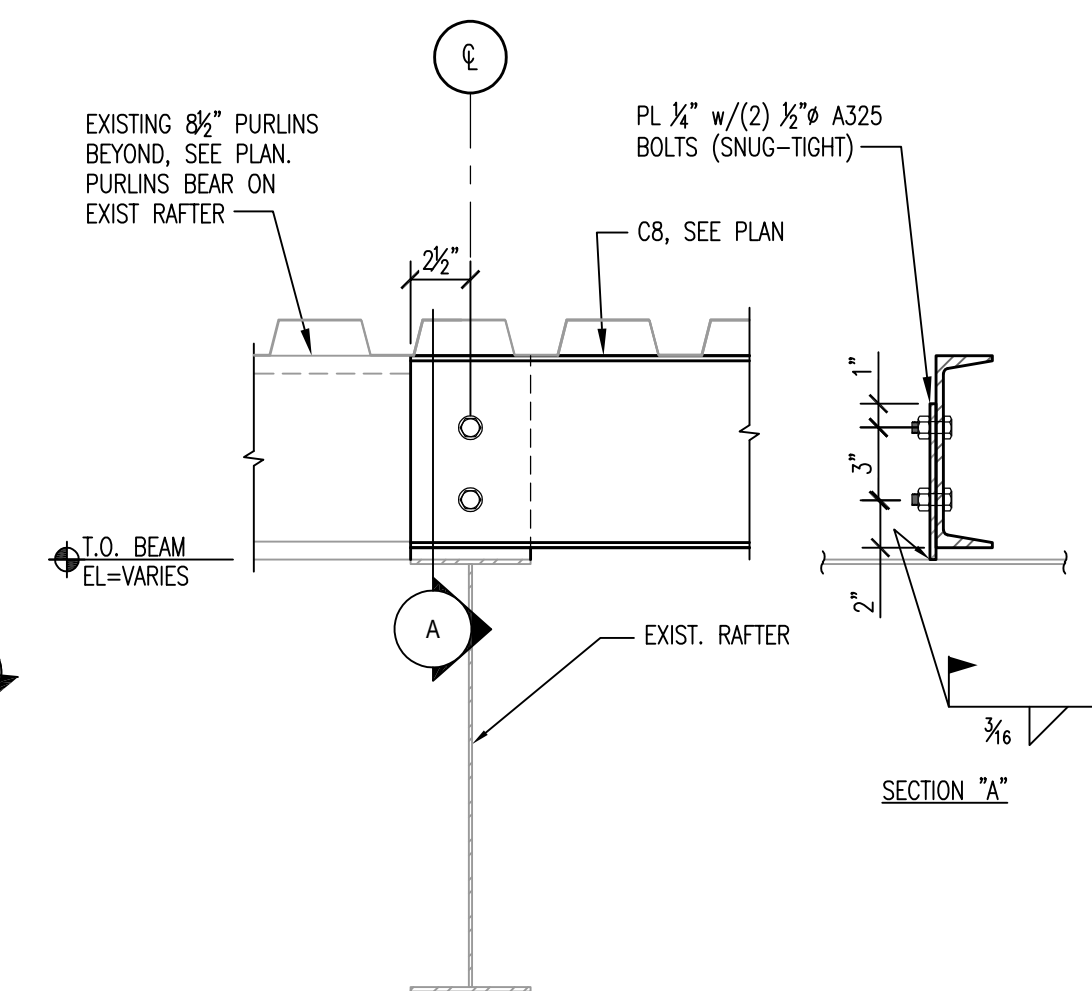
5 PURLIN STRENGTHENING @ CENTER OF BAY

S904 SCALE: NTS



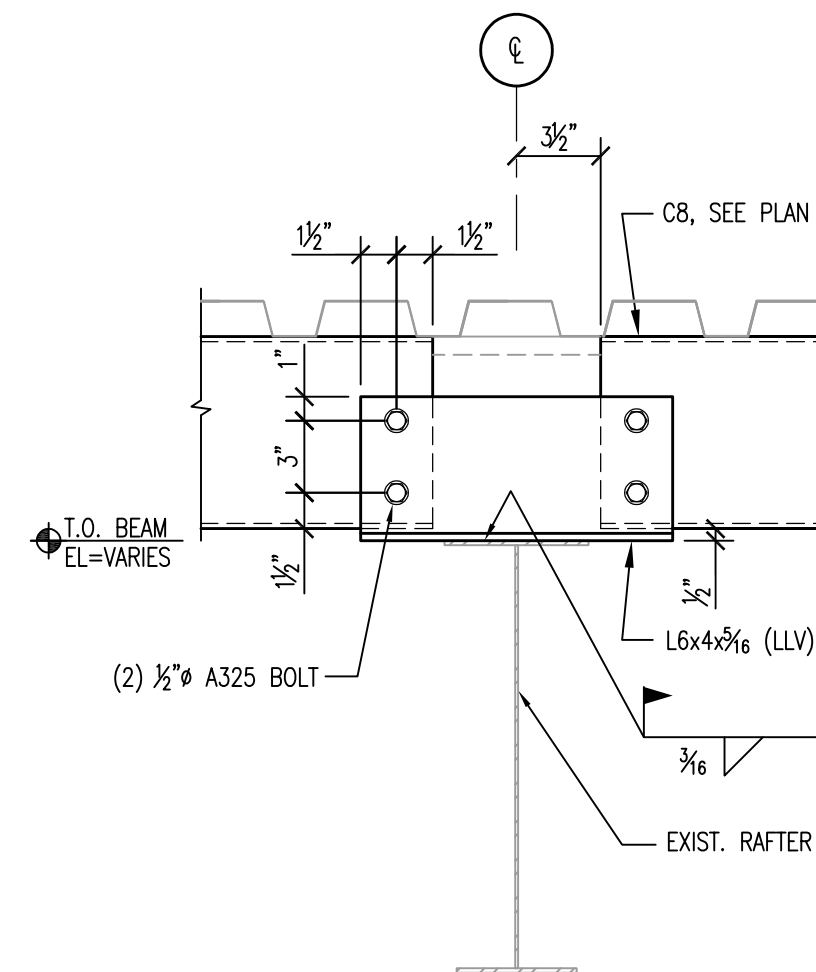
2 PURLIN BLOCKING

S904 SCALE: 1 1/2"=1'-0"



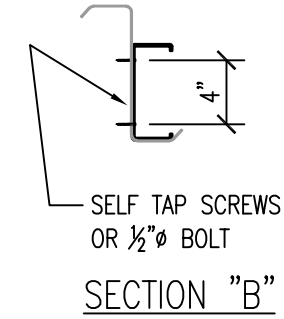
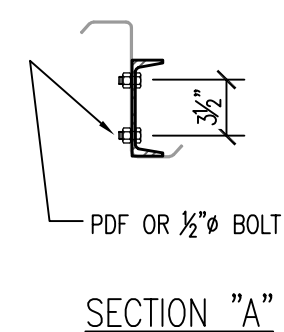
3 C8 PURLIN TO RAFTER

S904 SCALE: 1 1/2"=1'-0"



4 C8 PURLINS TO RAFTER

S904 SCALE: 1 1/2"=1'-0"



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