

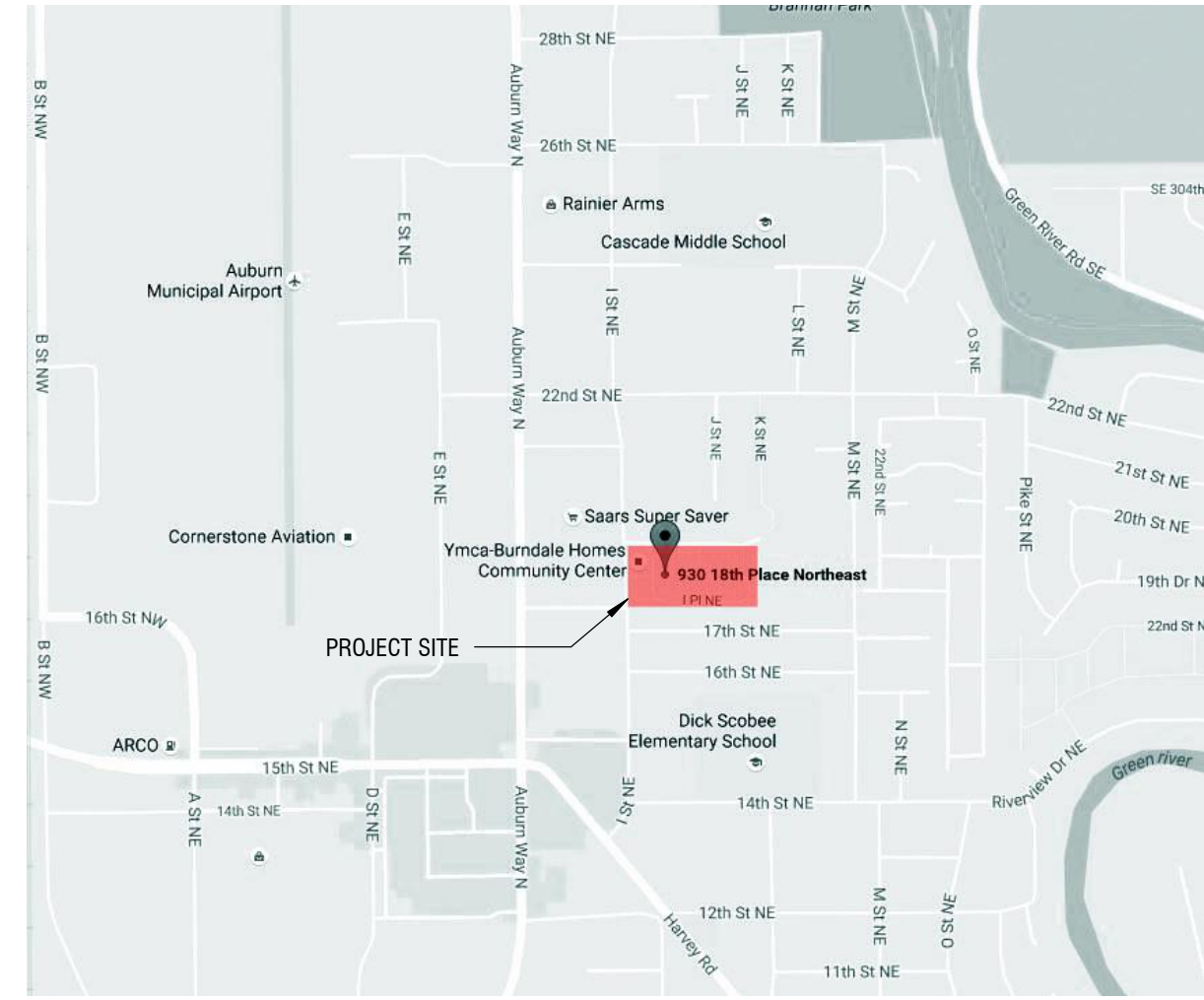
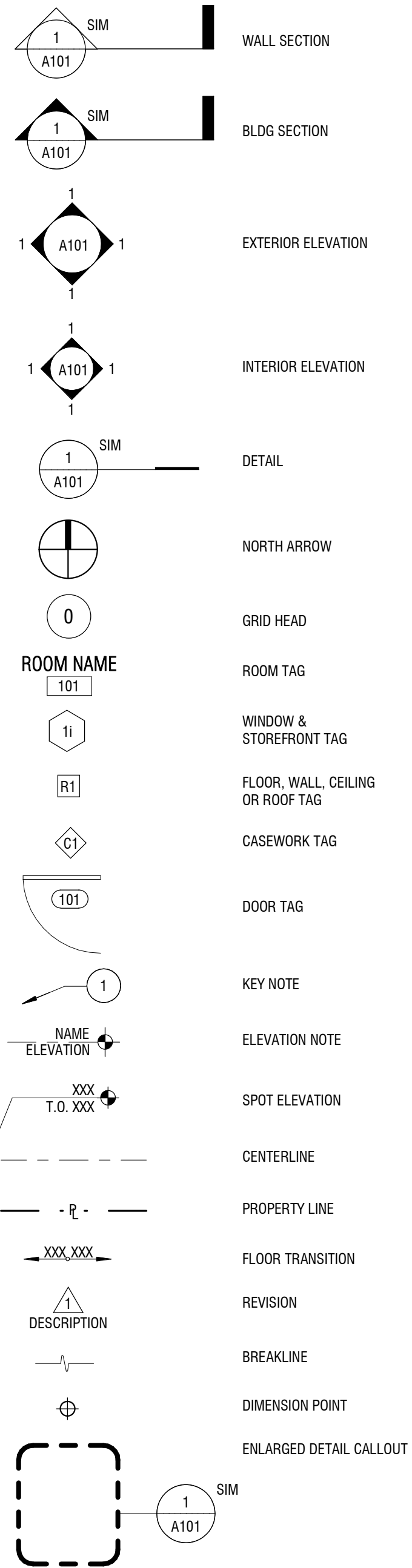
KCHA BURNDALE HOMES OFFICE TI & BUILDING



ABBREVIATIONS

Table of abbreviations for architectural symbols and materials, including categories like AND, ANGLE, AT, DIAMETER, etc.

DRAFTING SYMBOLS



GENERAL NOTES

- 1. WHERE CONFLICTS OCCUR, THE SCOPE OF WORK TAKES PRECEDENCE OVER SPECIFICATIONS, AND SPECIFICATIONS TAKE PRECEDENCE OVER THE DRAWINGS.
2. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES AND SYMBOLS.
3. MATERIALS, ASSEMBLIES AND NOTED ITEMS ARE NEW UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY CONDITIONS. NOTIFY THE ARCHITECT OF ANY CONDITIONS INCONSISTENT WITH THE INTENT OF THE DRAWINGS PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.

- CODE:
1. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, WHICH INCLUDE THE MOST CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS, INTERNATIONAL MECHANICAL CODE (IMC), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL FIRE CODE (IFC), AND WASHINGTON STATE ENERGY CODE (WEC).
2. REFER TO WINDOW SCHEDULE FOR WINDOW SIZES AND TYPES. ALL GLAZING WITHIN 18" OF INTERIOR FLOOR, EXTERIOR WALKING SURFACE OR WITHIN 24" OF A DOOR IN ANY POSITION TO BE TEMPERED GLASS UNLESS INDICATED OTHERWISE.
3. MECHANICAL, ELECTRICAL AND PLUMBING PERMITS TO BE APPLIED FOR UNDER SEPARATE APPLICATION BY CONTRACTOR.
4. PROVIDE FIREBLOCKS AND DRAFTSTOPS PER IBC.
5. PROVIDE CLOSURE MEETING THE REQUIREMENT OF GOVERNING FIRE AUTHORITIES BETWEEN FIRE RATED FLOORS, SHAFTS AND BUILDING PARTITIONS AND PENETRATING DUCTS, PIPES, CONDUIT, MECHANICAL, ELECTRICAL, AND OTHER ITEMS.
6. RECESSES LOCATED WITHIN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE REQUIRED FIRE RATING OF THE PARTITION.
7. EXISTING FIRE EXTINGUISHERS AND CABINETS ARE NOT SHOWN ON PLANS. PROTECT EXISTING FIRE EXTINGUISHERS AND CABINETS (RECESSED OR SURFACE MOUNTED) FROM DAMAGE.

- HAZMAT:
1. HAZARDOUS MATERIAL REMOVAL & DISPOSAL: BEFORE BEGINNING ANY DEMOLITION OR OTHER WORK, COMPLY WITH DOCUMENTS PREPARED BY THE OWNER'S HAZARDOUS MATERIALS CONSULTANT. THIS APPLIES TO DEMOLITION, DISPOSAL AND CONSTRUCTION OPERATIONS ASSOCIATED WITH THE PROJECT. THE CONTRACTOR WILL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IF MATERIALS SUSPECTED OF BEING HAZARDOUS, AND NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED IN THE COURSE OF THE CONTRACTOR'S WORK.

- DEMOLITION:
1. WHERE ITEMS ARE INDICATED ON PLANS TO BE DEMOLISHED, IT SHALL MEAN THE COMPLETE REMOVAL AND DISPOSAL OF THE ITEM INDICATED UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE HAZARDOUS MATERIALS ABATEMENT, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CUTTING AND PATCHING WORK.
2. "REMOVE" MEANS TO COMPLETELY AND PERMANENTLY REMOVE FROM THE PROJECT.

- DIMENSIONS:
1. DO NOT SCALE DRAWINGS.
2. VERIFY DIMENSIONS SHOWN ON DRAWINGS. USE ONLY DIMENSIONS INDICATED. PRIOR TO STARTING OR CONTINUING WORK, NOTIFY ARCHITECT OF DISCREPANCIES OR CONDITIONS INCONSISTENT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
3. DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD, UNLESS OTHERWISE NOTED.
4. FINISHED SURFACE OF INFILL OR EXTENSIONS OF EXISTING PARTITIONS SHALL ALIGN WITH ADJACENT EXISTING SURFACES UNLESS OTHERWISE NOTED.
5. VERTICAL DIMENSIONS ARE MEASURED FROM STRUCTURAL SLAB, TOP OF STEEL OR TOP OF SHEATHING, UNLESS NOTED OTHERWISE.
6. DOORS NOT LOCATED BY DIMENSION ON PLANS SHALL BE SIX INCHES FROM FACE OF ADJOINING PARTITION TO HINGE EDGE OF DOOR OPENING. PROVIDE MINIMUM 18" CLEAR FROM FACE OF ADJOINING PARTITION OR OTHER OBSTRUCTION TO JAMB EDGE OF DOOR OPENING, UNLESS OTHERWISE NOTED. NOTIFY ARCHITECT IF REQUIRED CLEARANCES ARE NOT AVAILABLE.
7. WINDOWS ARE DIMENSIONED TO CENTERLINE OF OPENING WITHIN FRAMED WALLS AND TO MASONRY OPENING WITHIN MASONRY WALLS, UNLESS OTHERWISE NOTED.

- COORDINATION:
1. COORDINATE ALL OPERATIONS WITH OWNER, SUCH AS AREAS USED FOR MATERIAL STORAGE, ACCESS TO AND FROM THE SITE, TIMING OF WORK AND REQUIREMENTS OF NOISE ORDINANCE. INSTALL DUST AND NOISE BARRIERS AS REQUIRED TO PROTECT EXISTING ADJACENT BUILDINGS AND OCCUPANTS AND TO MAINTAIN AN ENVIRONMENT SUITABLE TO PERMIT CONTINUED OCCUPANCY OF SUBJECT AND ADJACENT BUILDINGS.
2. REVIEW DEMOLITION DRAWINGS. PATCH AND REPAIR ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK.
3. VERIFY LOCATIONS OF EXISTING UTILITIES. CAP, MARK AND PROTECT AS NECESSARY TO COMPLETE THE WORK.
4. REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROVIDE ROUGH-INS THROUGH SLABS, BEAMS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, PIPES, CONDUITS, JUNCTION BOXES, CABINETS AND EQUIPMENT. VERIFY SIZE AND LOCATION BEFORE PROCEEDING WITH WORK. COORDINATE WITH INSTALLATION REQUIREMENTS. PATCH AND REPAIR EXISTING SURFACES AS NECESSARY TO COMPLETE WORK.
5. COORDINATE AND PROVIDE REQUIRED PENETRATIONS AND PATCHING WITH INDIVIDUAL SUBCONTRACTORS TO SUIT NEW WORK.
6. CONTRACTOR TO OBTAIN AND VERIFY ROUGH-IN DIMENSION REQUIREMENTS FOR CABINETRY, EQUIPMENT, ACCESSORIES AND THE LIKE INCLUDING THOSE DESIGNATED FOIC AND FOID. CONTRACTOR TO PROVIDE BACKING, BLOCKING, SUPPORT AS REQUIRED FOR INSTALLATION. CONTRACTOR TO COORDINATE POWER, DATA, COMMUNICATIONS AND SECURITY REQUIREMENTS FOR FOIC AND FOID EQUIPMENT WHERE SERVICES ARE REQUIRED. INCLUDE STUD OUTS AND CONNECTIONS. VERIFY AND COORDINATE DIMENSIONS OF FOIC AND FOID ITEMS PRIOR TO PROCEEDING WITH WORK. INCLUDE STUD OUTS FOR FUTURE WORK.
7. PIPING, CONDUITS, DUCTS, ETC. SHALL BE CONCEALED IN WALLS, CHASES, ABOVE SUSPENDED CEILINGS, BELOW FLOORS OR BE FURRED-IN IN ROOMS WITH EXISTING CEILINGS, UNLESS OTHERWISE NOTED. DO NOT CONCEAL PIPING, CONDUITS, DUCTS, ETC. IN ELECTRICAL, MECHANICAL, AND COMMUNICATION ROOMS.
8. CAREFULLY COORDINATE MECHANICAL, ELECTRICAL, AND BUILDING SYSTEM INSTALLATIONS WITH EXISTING STRUCTURE AND BUILDING SYSTEMS.
9. REFER TO LIGHTING PLAN AND ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES AND LOCATIONS. COORDINATE AND REVIEW DEVICE LOCATIONS WITH OWNER IN FIELD PRIOR TO ROUGH-IN.



EXISTING BUILDING PHOTO

PROJECT INFORMATION

PROJECT OWNER: KING COUNTY HOUSING AUTHORITY (KCHA)
PROJECT MANAGER: AMY KURTZ
PROJECT ADDRESS: 930 18TH PLACE NE AUBURN, WA 98002
SCOPE DESCRIPTION: EXTERIOR ENVELOPE UPGRADES INCLUDING REPLACEMENT OF EXTERIOR SIDING, TRIM, WEATHER PROOFING, WINDOWS, DOORS, ROOFING, AND LIGHTING, INTERIOR IMPROVEMENTS INCLUDING RECONFIGURATION OF PARTITIONS, MINIMAL STRUCTURAL WORK, AND MECHANICAL, ELECTRICAL, AND DATA.

SHEET INDEX

Table listing sheet numbers and descriptions, including COVER SHEET, CODE ANALYSIS, SITE PLAN, DEMO PLANS, FIRST FLOOR PLAN & ROOF PLAN, etc.

DESIGN TEAM

ARCHITECT: SHKS ARCHITECTS 1050 NORTH 38TH ST SEATTLE, WA 98103 TEL: 206.675.9151 CONTACT: LEVI JETTE EMAIL: LEVIJ@SHKSARCHITECTS.COM
ELECTRICAL ENGINEER: CASE ENGINEERING 19515 NORTH GREEK PARKWAY, SUITE 302 BOTHELL, WA 98011 TEL: 425-402-8400 CONTACT: MICHAEL CASE EMAIL: MICHAEL@CASEENG.COM
MECHANICAL ENGINEER: THE GREENBUSCH GROUP 1900 W. NICKERSON ST, STE. 201 SEATTLE, WA 98119 TEL: 206.378.0569 CONTACT: RICHARD FREDERICK EMAIL: RICHARDF@GREENBUSCH.COM
STRUCTURAL ENGINEER: PCS STRUCTURAL SOLUTIONS 1011 WESTERN AVENUE, SUITE 810 SEATTLE, WA 98104 TEL: 206.292.5076 CONTACT: DAN TAPPEL EMAIL: DTAPPEL@PCS-STRUCTURAL.COM

APPLICABLE CODES

- AUBURN MUNICIPAL CODE
2018 INTERNATIONAL BUILDING CODE W/ WASHINGTON STATE AMENDMENTS
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN & ANSI A117.1
2018 EXISTING BUILDING CODE
2018 WASHINGTON STATE ENERGY CODE
2018 UNIFORM PLUMBING CODE
2018 INTERNATIONAL FIRE CODE
2018 NATIONAL ELECTRIC CODE
ALL CODES ADOPTED AND AMENDED BY THE STATE BUILDING CODE COUNCIL

DEFERRED PERMITS

- FIRE ALARM
ELECTRICAL
MECHANICAL
PLUMBING

KCHA BURNDALE HOMES OFFICE TI & ENVELOPE

BID SET

930 18TH PLACE NE AUBURN, WA 98002

Drawn by: KL
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Revisions:
No. Date Remarks
1 9/22/2023 Revision 1

COVER SHEET A0.0



COMMON PATH OF EGRESS TRAVEL			
Level	PATH NAME	PATH LENGTH	
FIRST FLOOR	COMMON PATH 1	25' - 10"	
FIRST FLOOR	COMMON PATH 2	46' - 11"	

TABLE 1006.2.1 MAX COMMON PATH OF EGRESS TRAVEL DISTANCE
GROUP B, WITHOUT SPRINKLER SYSTEM: 75 FT
GROUP S-1, WITHOUT SPRINKLER SYSTEM: 75 FT

FLOOR EXIT ACCESS TRAVEL DISTANCE			
LEVEL	PATH NAME	PATH LENGTH	
FIRST FLOOR	EXIT PATH 1	55' - 5"	
FIRST FLOOR	EXIT PATH 2	66' - 9"	

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
MAXIMUM TRAVEL DISTANCE:
GROUP B, WITHOUT SPRINKLER: 200 FT
GROUP S-2, WITHOUT SPRINKLER: 300 FT

FLOOR EXIT ACCESS DOORWAY ARRANGEMENT DISTANCE 1			
DIAGONAL NAME	DIAGONAL LENGTH	1/3 OF DIAGONAL LENGTH (SPRINKLERED)	1/2 OF DIAGONAL LENGTH (UNSPRINKLERED)
DIAGONAL 1	75' - 10"	25' - 3"	37' - 11"

FLOOR OCCUPANT LOAD TABULATION PER 2018 IBC								
MARK	NAME	USE & OCCUPANCY CLASSIFICATION	FUNCTION OF SPACE PER TABLE 1004.5	OCCUPANT LOAD FACTOR	AREA NSF/GSF	AREA	CALC OCCUPANTS	COMMENTS
101	MAINTENANCE	S-2	Accessory Storage Areas, Mechanical Equipment Room	300	Gross	306 SF	2.0	
102	GARAGE	S-2	Accessory Storage Areas, Mechanical Equipment Room	300	Gross	413 SF	2.0	
105	CONFERENCE	B	Assembly Unconcentrated (tables and chairs)	15	Net	208 SF	14.0	
106	MGMT OFFICE	B	Business Areas	150	Gross	118 SF	1.0	
111	MEETING	B	Assembly Unconcentrated (tables and chairs)	15	Net	143 SF	10.0	
112	RECEPTION	B	Business Areas	150	Gross	341 SF	3.0	
113	OFFICE	B	Business Areas	150	Gross	1396 SF	10.0	
114	BREAK	B	Business Areas	150	Gross	227 SF	2.0	
						3151 SF	44.0	

ZONING ANALYSIS

PARCEL NUMBER: 0001000083
 LEGAL DESCRIPTION: BRANNAN W DC # 37 BEG ON W LN OF DC 1485 FT N FR SW COR THOF TH E PLL S LN THOF 625.44 FT TO TPOB TH CONTG E 814.96 FT TH N PLL SD W LN 353.84 FT TH W PLL SD S LN 828.47 FT TH SELY 354 FT ML TO TPOB LESS POR FOR STS
 LOT AREA: 263,796 (6.1 ACRES)
 ZONE: R-20
 CONSTRUCTION TYPE: V-B
 CURRENT USE: B OCCUPANCY OFFICE, RESTROOMS
 S-2 OCCUPANCY LOW-HAZARD STORAGE
 YEAR BUILT: 1971
 (E) BLDG AREA: 3,376 SF (NO CHANGE)
 (E) LOT COVERAGE: 3,376 SF (NO CHANGE)
 (E) BLDG HEIGHT: 18' 6" (NO CHANGE)
 (E) STORIES: 1
 REQUIRED SETBACKS: NO CHANGE

PARKING

REQUIRED PARKING: PER AUBURN MUNICIPAL CODE 18.52.020, 2 SPACES PER 1000 SF REQUIRED FOR FOR B OCCUPANCY.
 PROVIDED PARKING: 8 SPACES MIN, 1 ACCESSIBLE MIN
 (E) PROVIDED PARKING: 18 STANDARD, 3 ACCESSIBLE (NO CHANGE)

INTERNATIONAL EXISTING BUILDING CODE ANALYSIS

CHAPTER 6 CLASSIFICATION OF WORK

604.1 LEVEL 3 ALTERATION
 PROJECT QUALIFIES AS A LEVEL 3 ALTERATION: WORK AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA.

WORK AREA: 3,376 SF
 BUILDING AREA: 3,376 SF
 WORK AREA = 100% OF BUILDING AREA

BUILDING ELEMENTS WITHIN THE WORK AREA TO COMPLY WITH SBC PROVISIONS.

CHAPTER 9 ALTERATIONS - LEVEL 3

907.1 ENERGY CONSERVATION
 LEVEL 3 ALTERATIONS TO EXISTING BUILDING DO NOT REQUIRE THE ENTIRE BUILDING TO COMPLY WITH THE ENERGY REQUIREMENTS OF THE IECC. THE ALTERATIONS SHALL CONFORM TO THE ENERGY REQUIREMENTS AS THEY RELATE TO NEW CONSTRUCTION ONLY.

INTERNATIONAL BUILDING CODE ANALYSIS WITH WA STATE AMENDMENTS AS ADOPTED

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

TABLE 506.2 ALLOWABLE AREA FACTOR
 B OCCUPANCY, NON-SPRINKLERED, TYPE V-B = 9000 SF

TABLE 508.3 NONSEPARATED OCCUPANCIES
 TOTAL AREA OF THE BUILDING IS LESS THAN THE ALLOWABLE AREA FOR NON-SPRINKLERED B OCCUPANCY (MOST RESTRICTIVE OCCUPANCY IN PROJECT), BUILDING IS THEREFORE CONSIDERED NONSEPARATED.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

718.4 DRAFTSTOPPING IN ATTICS
 DRAFTSTOPPING REQUIRED TO SUBDIVIDE ATTICS AREAS THAT EXCEED 3000 SF. PROJECT ATTIC AREA = 2971 SF, NO DRAFTSTOP REQUIRED.

CHAPTER 9 FIRE PROTECTION SYSTEMS

903 AUTOMATIC SPRINKLER SYSTEMS
 SPRINKLERS NOT REQUIRED FOR B OCCUPANCY. SPRINKLERS NOT REQUIRED FOR S-2 OCCUPANCY.

TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

ONE FIRE EXTINGUISHER PER 1,500 SF
 75 FEET MAX TRAVEL DISTANCE TO EXTINGUISHER
 AREA OF WORK: 3,376 SF

3 FIRE EXTINGUISHER CABINETS TO BE INSTALLED.

CHAPTER 10 MEANS OF EGRESS

TABLE 1006.3.1 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY
 < 500 OCCUPANTS PER STORY: 2 EXITS PER STORY

1007.1.1 EXIT SEPARATION
 SEPARATION DISTANCE SHALL NOT BE LESS THAN 1/2 THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1010.1.1 MINIMUM WIDTH OF EGRESS DOOR
 32" CLEAR

1010.1.3 DOOR OPENING FORCE
 FORCE FOR PUSHING OR PULLING INTERIOR EGRESS DOORS SHALL NOT EXCEED 5 POUNDS. OTHER DOORS, 15 POUNDS FOR DOOR LATCH.

1010.1.7 THRESHOLDS
 NO MORE THAN 1/2 INCH. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4 INCH AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1

1010.1.9.1 DOOR HARDWARE
 HARDWARE SHALL BE COMPLIANT WITH ICC A117.1.

CHAPTER 11 ACCESSIBILITY

1101.2 DESIGN
 BUILDING AND FACILITIES SHALL BE DESIGNED IN ACCORDANCE WITH THIS CODE AND ICC A117.1. SEE SHEET A0.2 FOR ACCESSIBILITY DIAGRAMS PER ICC A117.1 APPLICABLE TO THIS PROJECT.

CHAPTER 24 GLASS AND GLAZING

SAFETY GLAZING TO BE PROVIDED PER IBC 2406. SEE SHEET A5.0 FOR SAFETY GLAZING LOCATIONS.

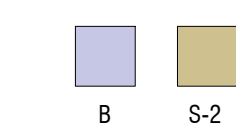
CHAPTER 29 PLUMBING SYSTEMS

TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES
 WATERCLOSETS REQUIRED: 2 (1 PER 25 FOR THE FIRST 50)
 WATER CLOSETS PROVIDED: 3

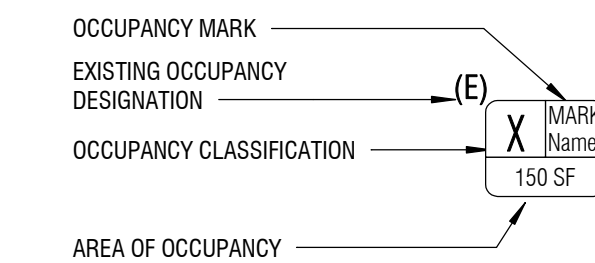
LAVATORIES REQUIRED: 2 (1 PER 40 FOR THE FIRST 80)
 LAVATORIES PROVIDED: 3

DRINKING FOUNTAINS REQUIRED: 1 (1 PER 150)
 DRINKING FOUNTAINS PROVIDED: 2

OCCUPANCY CLASSIFICATION LEGEND



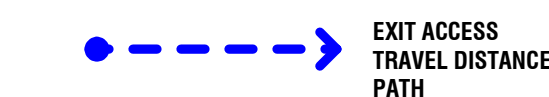
OCCUPANCY TAG LEGEND



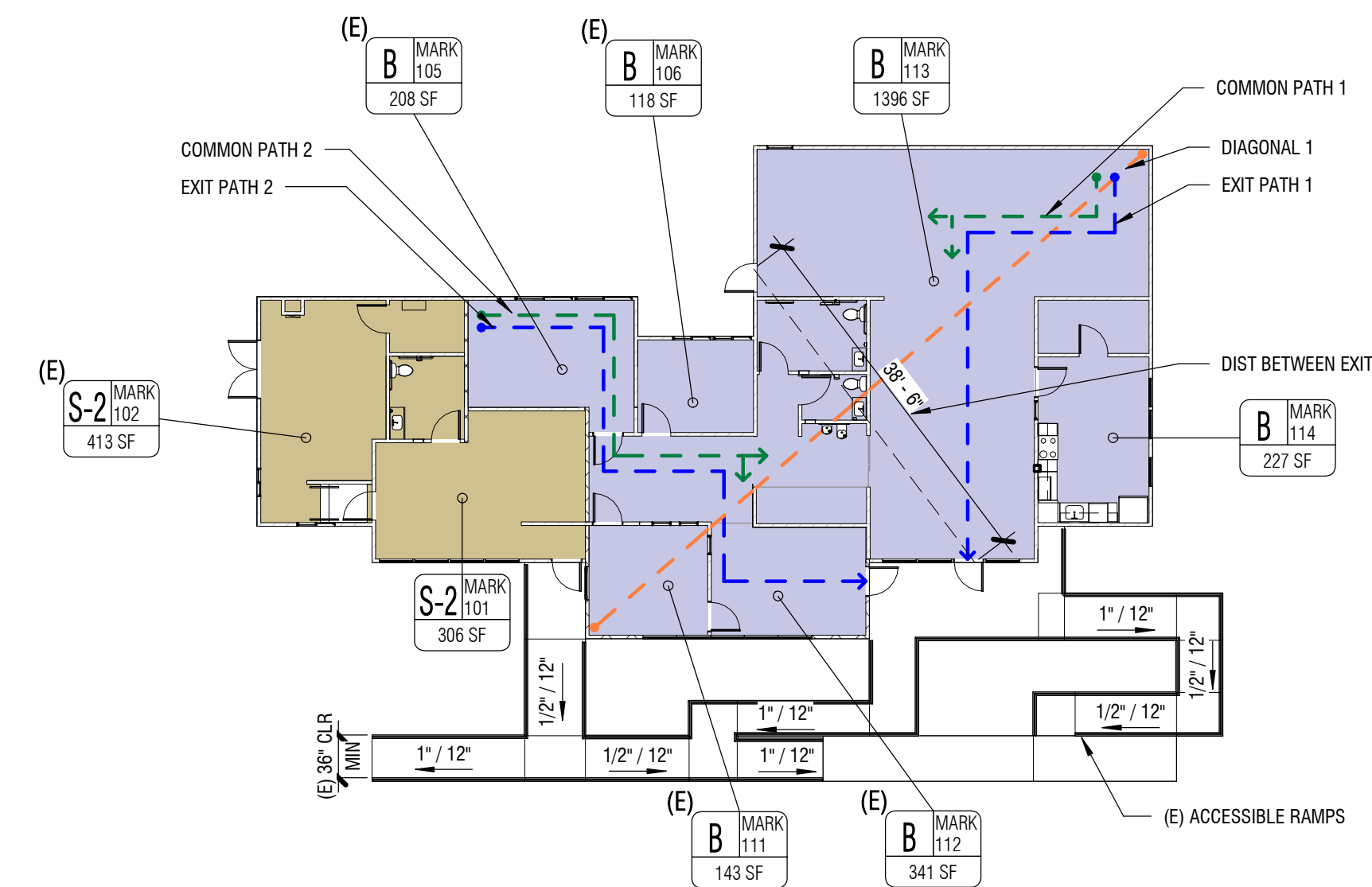
COMMON PATH OF EGRESS TRAVEL:
 DISTANCE A PERSON HAS TO TRAVEL BEFORE THEY HAVE A CHOICE OF GOING IN 2 DIRECTIONS



MAX TRAVEL DISTANCE:



EGRESS:



1 FIRST FLOOR
 1/16" = 1'-0"

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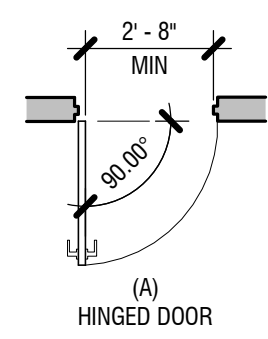


FIGURE 404.2.3
CLEAR WIDTH OF DOORWAYS

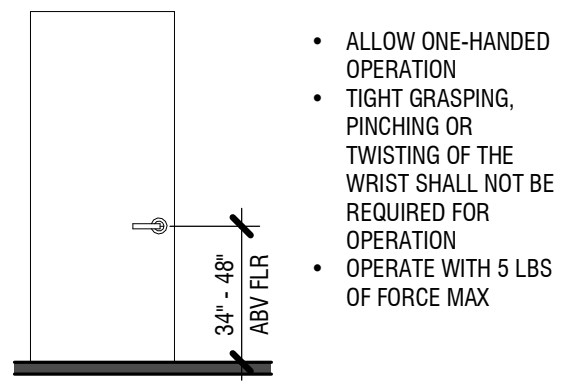
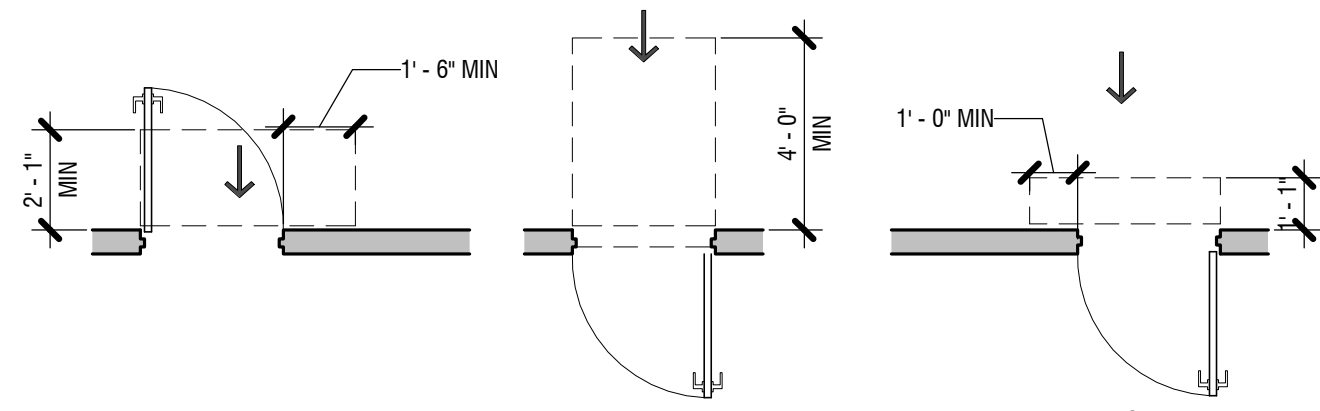


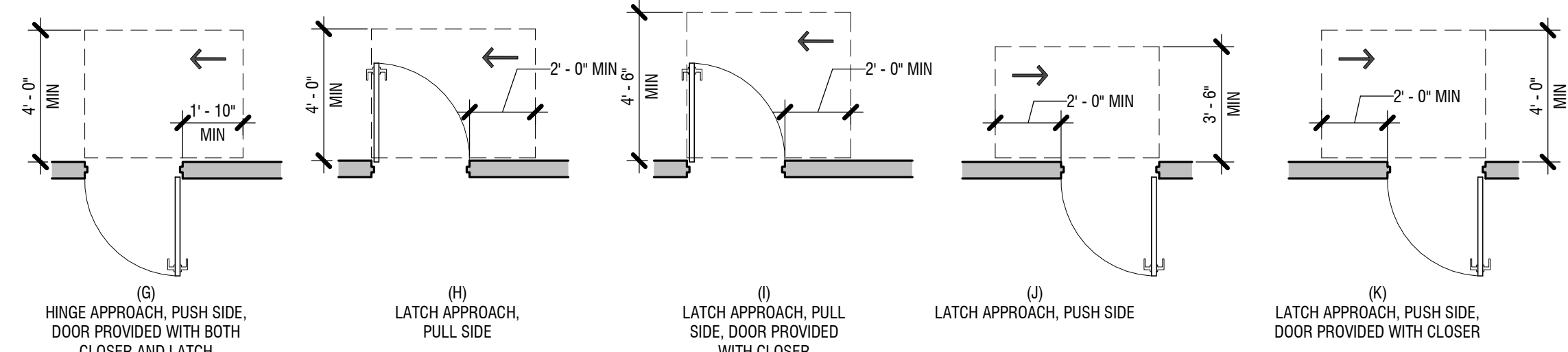
FIGURE 404.2.7
DOOR/GATE HARDWARE



(A) FRONT APPROACH, PULL SIDE

(B) FRONT APPROACH, PUSH SIDE

(C) FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



(G) HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

(H) LATCH APPROACH, PULL SIDE

(I) LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER

(J) LATCH APPROACH, PUSH SIDE

(K) LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

FIGURE 404.2.4.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

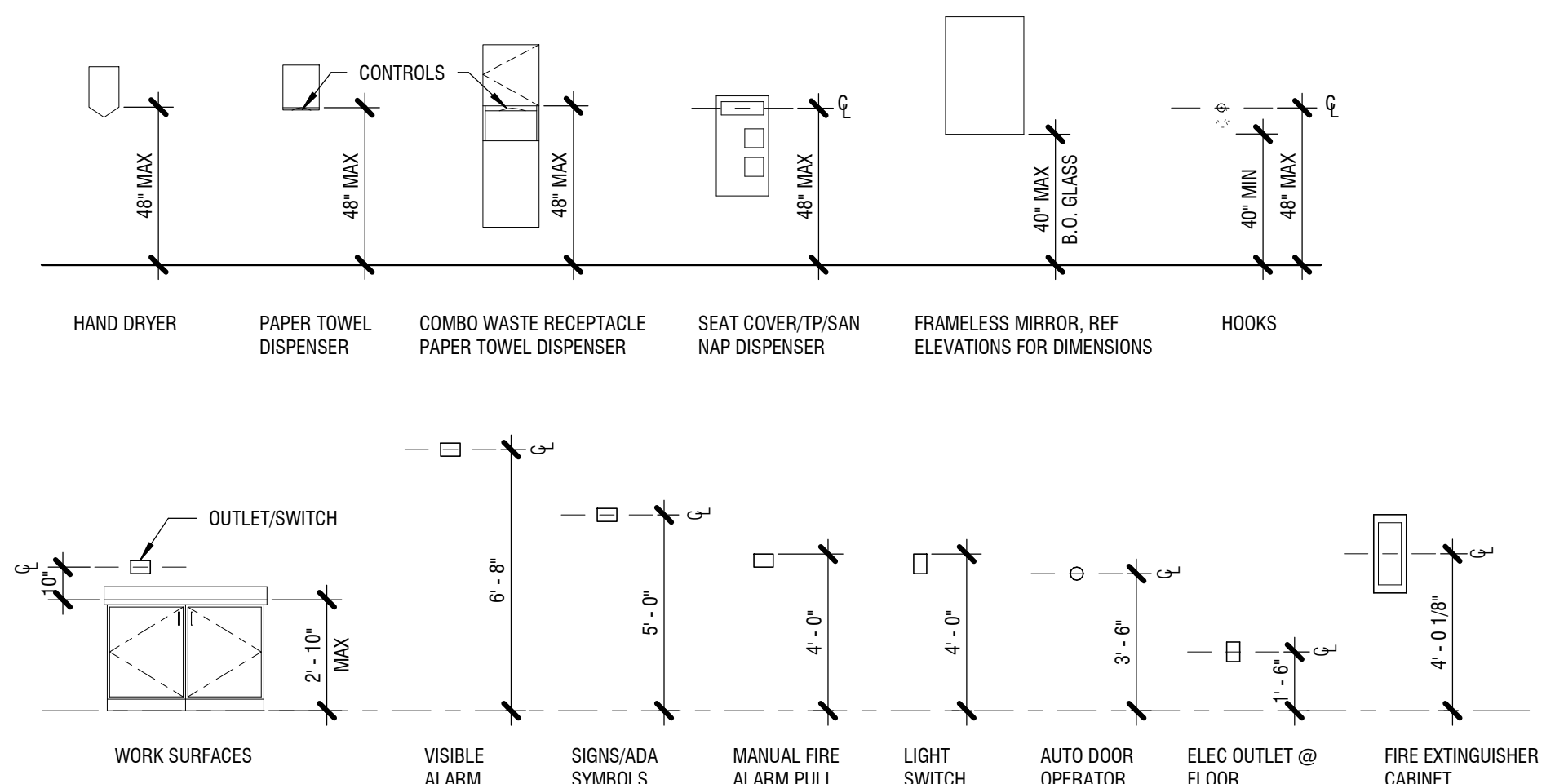


FIGURE 404.2.4.2
SIGNALS, OPERATORS, AND SURFACE HEIGHTS

1 ACCESSIBLE ROUTES
1/4" = 1'-0"

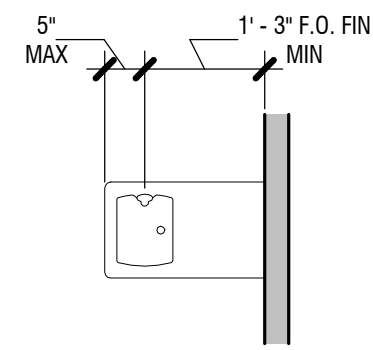


FIGURE 602.5
DRINKING FOUNTAIN SPOUT LOCATION

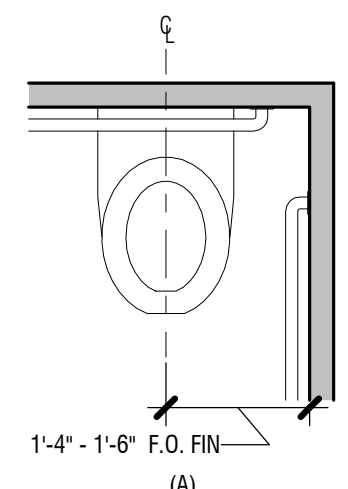


FIGURE 604.2
WATER CLOSET LOCATION

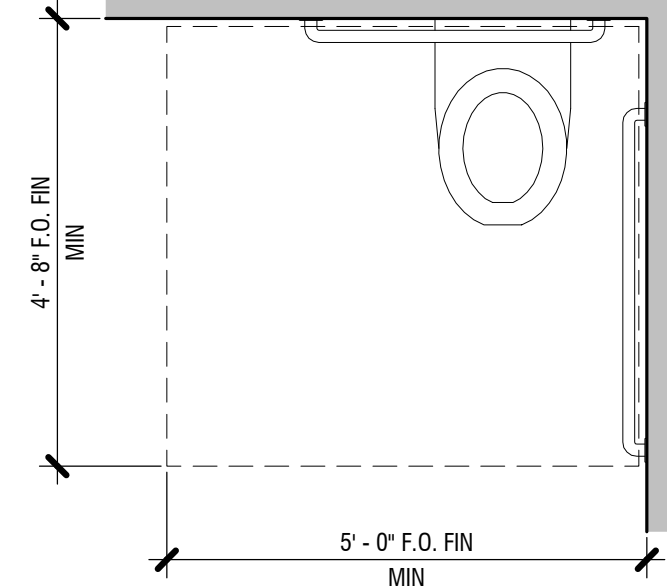


FIGURE 604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

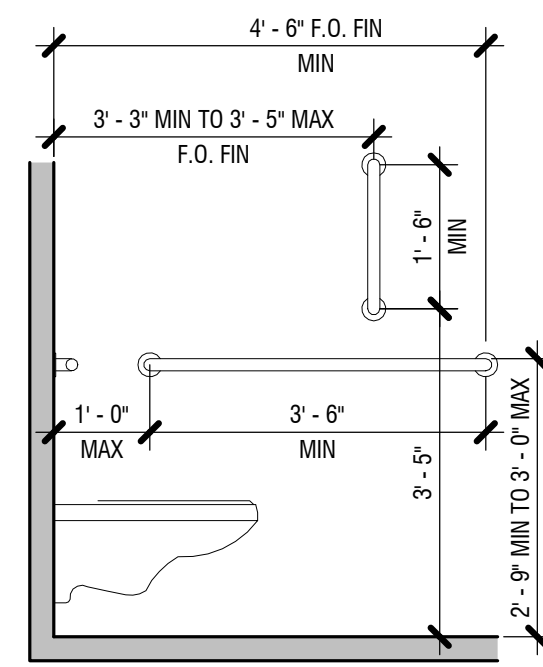


FIGURE 604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS

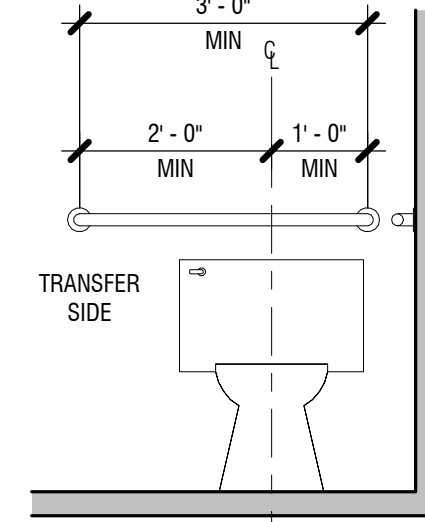


FIGURE 604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS

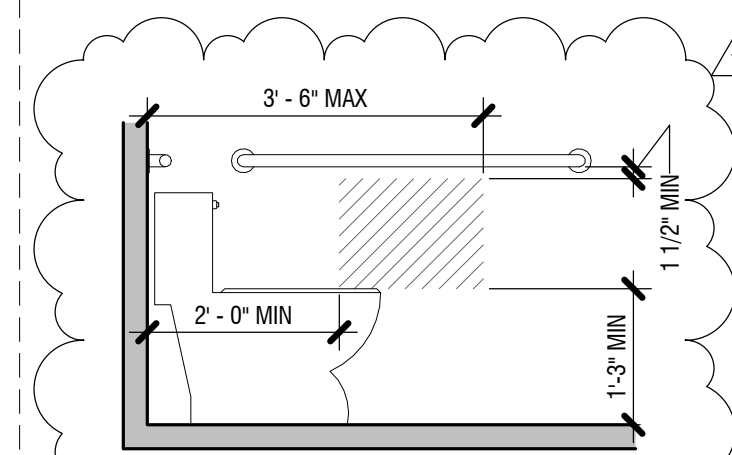
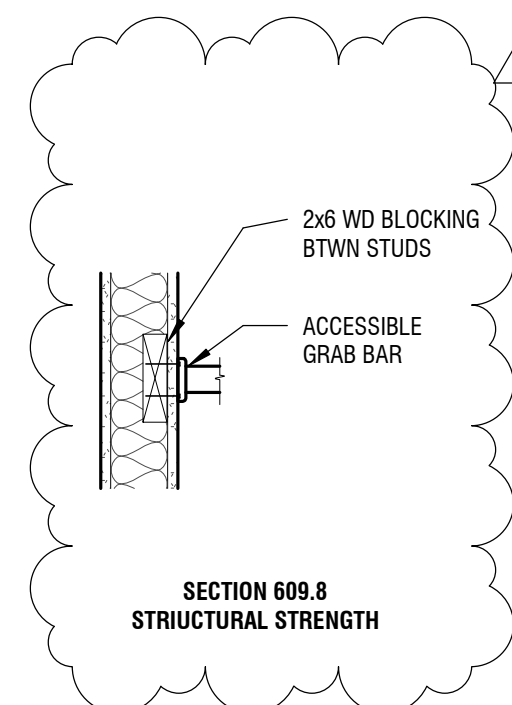


FIGURE 604.7
DISPENSER OUTLET LOCATIONS



SECTION 609.8
STRUCTURAL STRENGTH

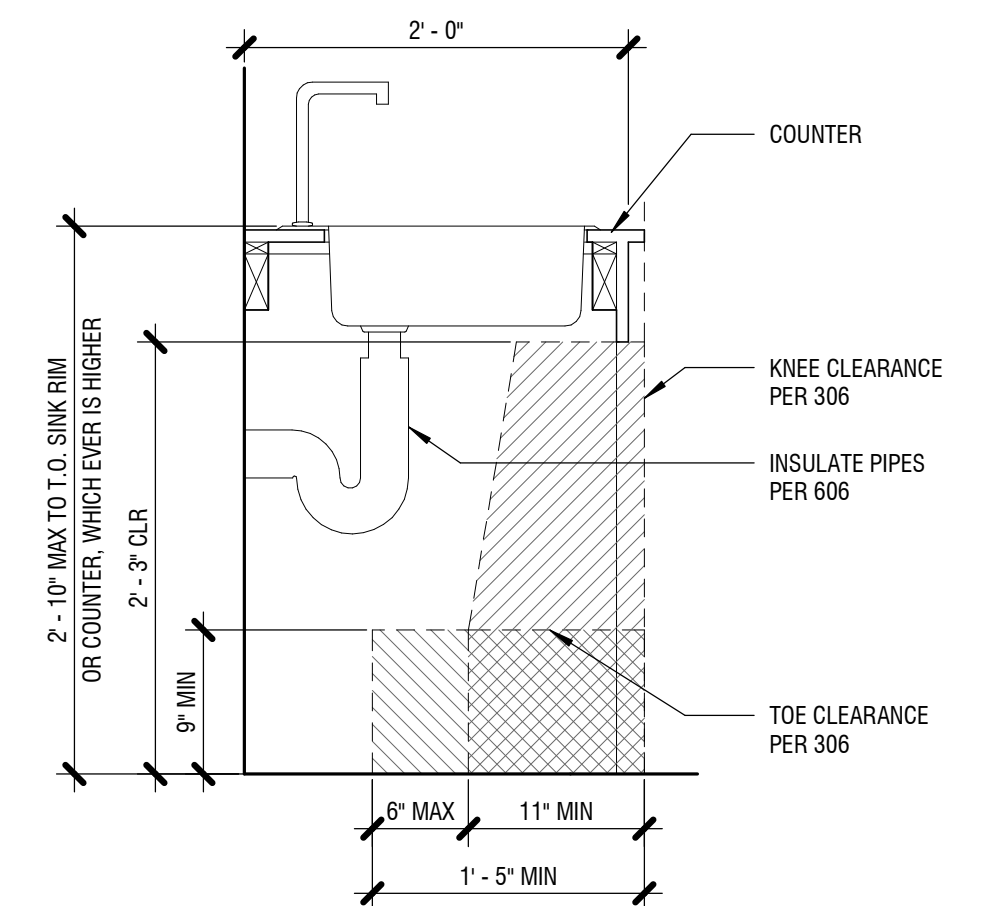


FIGURE 604.8
ACCESSIBLE SINK
1" = 1'-0"

3 PLUMBING ELEMENTS
1/2" = 1'-0"

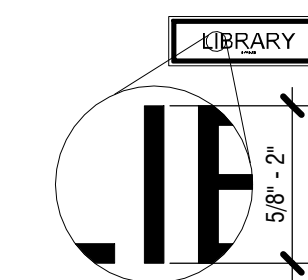


FIGURE 703.2.5
HEIGHT OF RAISED CHARACTERS

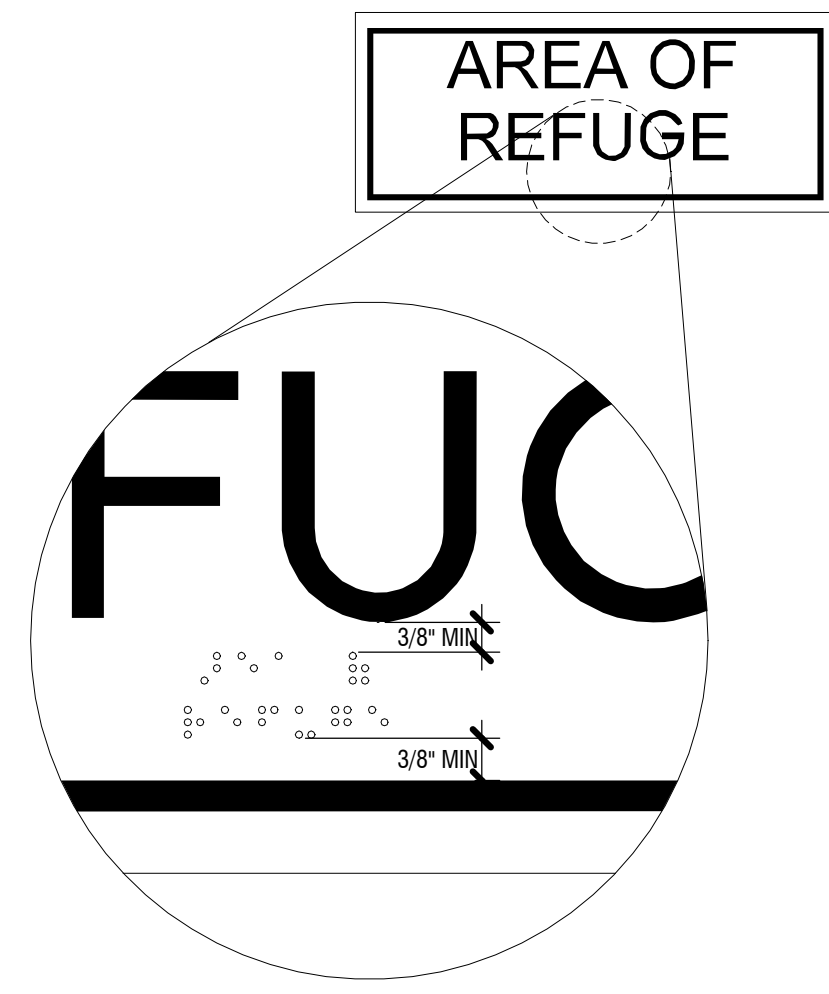


FIGURE 703.3.2
POSITION OF BRAILLE

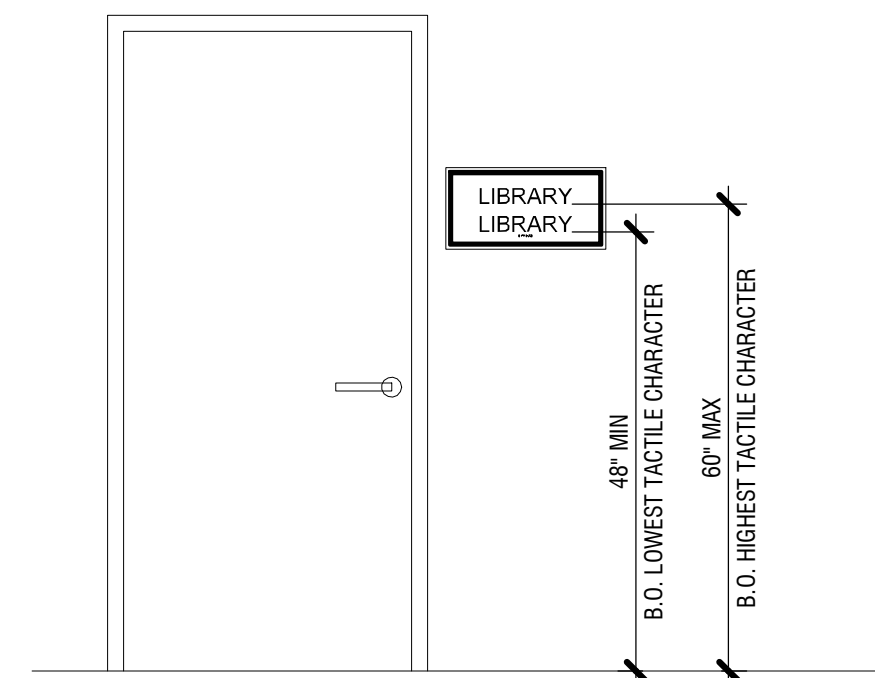


FIGURE 703.4.1
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

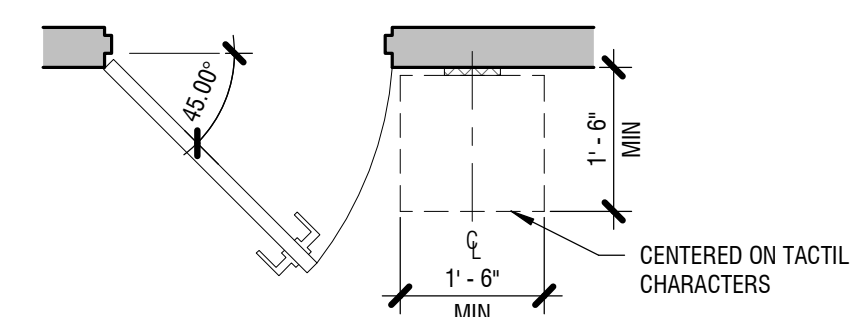


FIGURE 703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

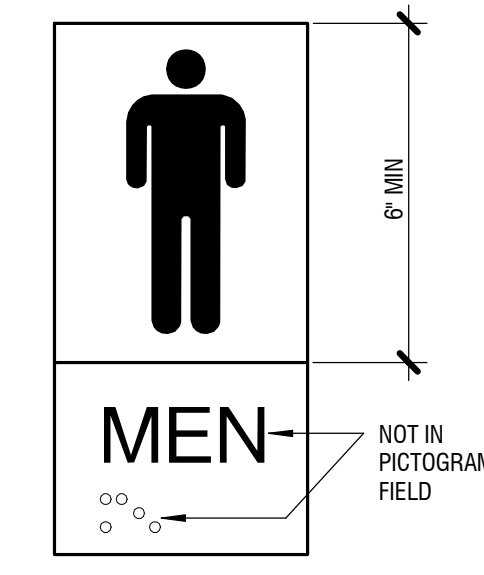


FIGURE 703.5
PICTOGRAM FIELD



SECTION 703.7.2
SYMBOLS

5 COMMUNICATION ELEMENTS AND FEATURES
1/2" = 1'-0"

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ENVELOPE

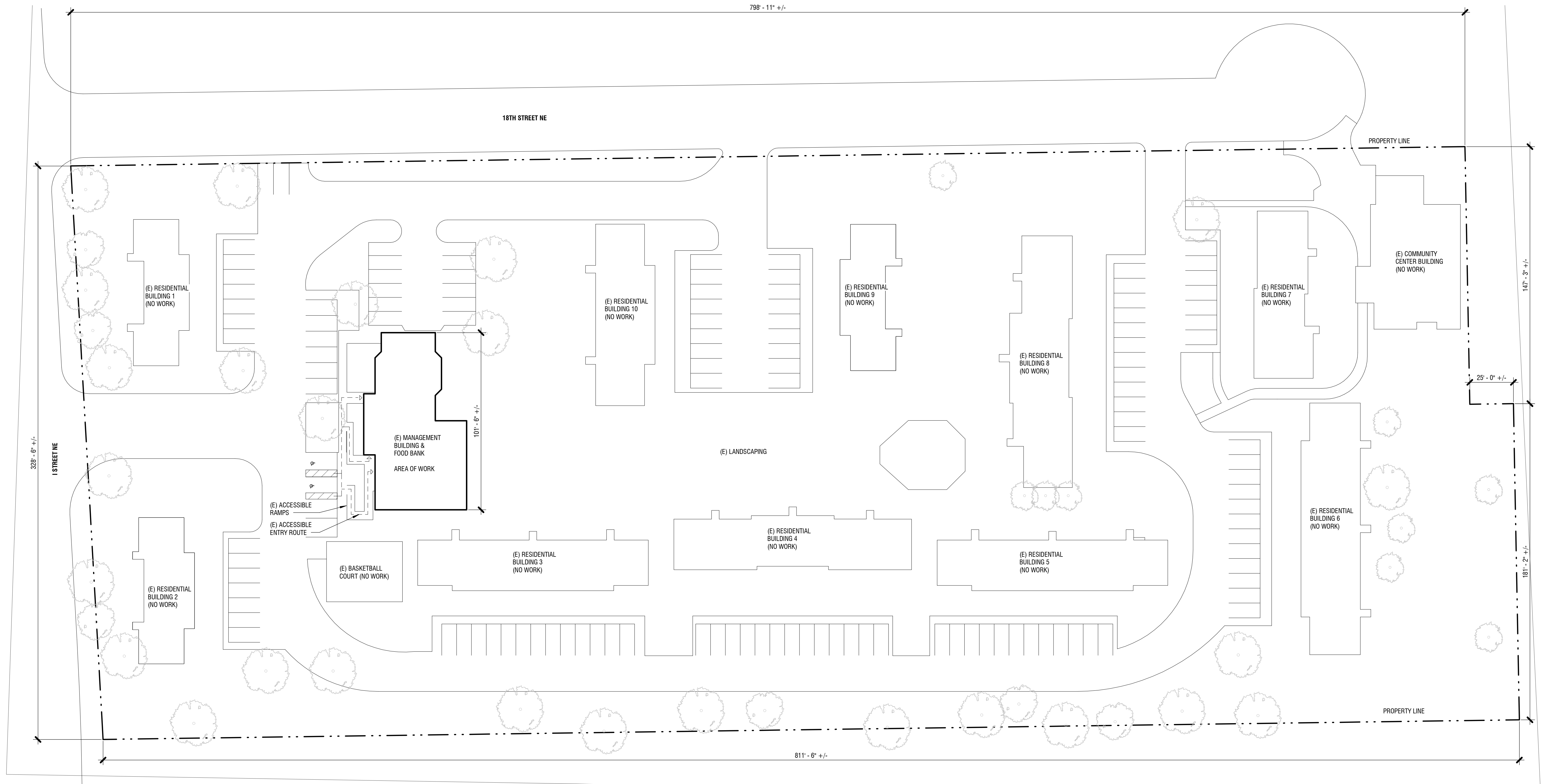
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CODE ANALYSIS
A0.2



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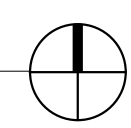
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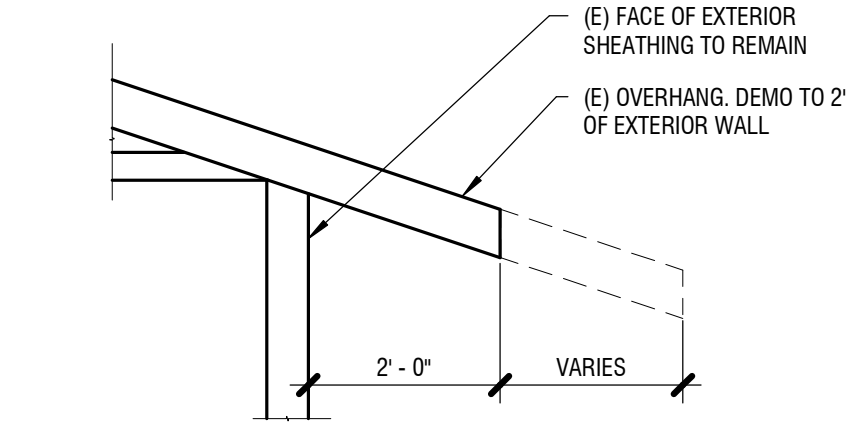
930 18TH PLACE NE
AUBURN, WA 98002

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Checked by: LJ
Date: 8/17/2023
Scale: 1" = 30'-0"

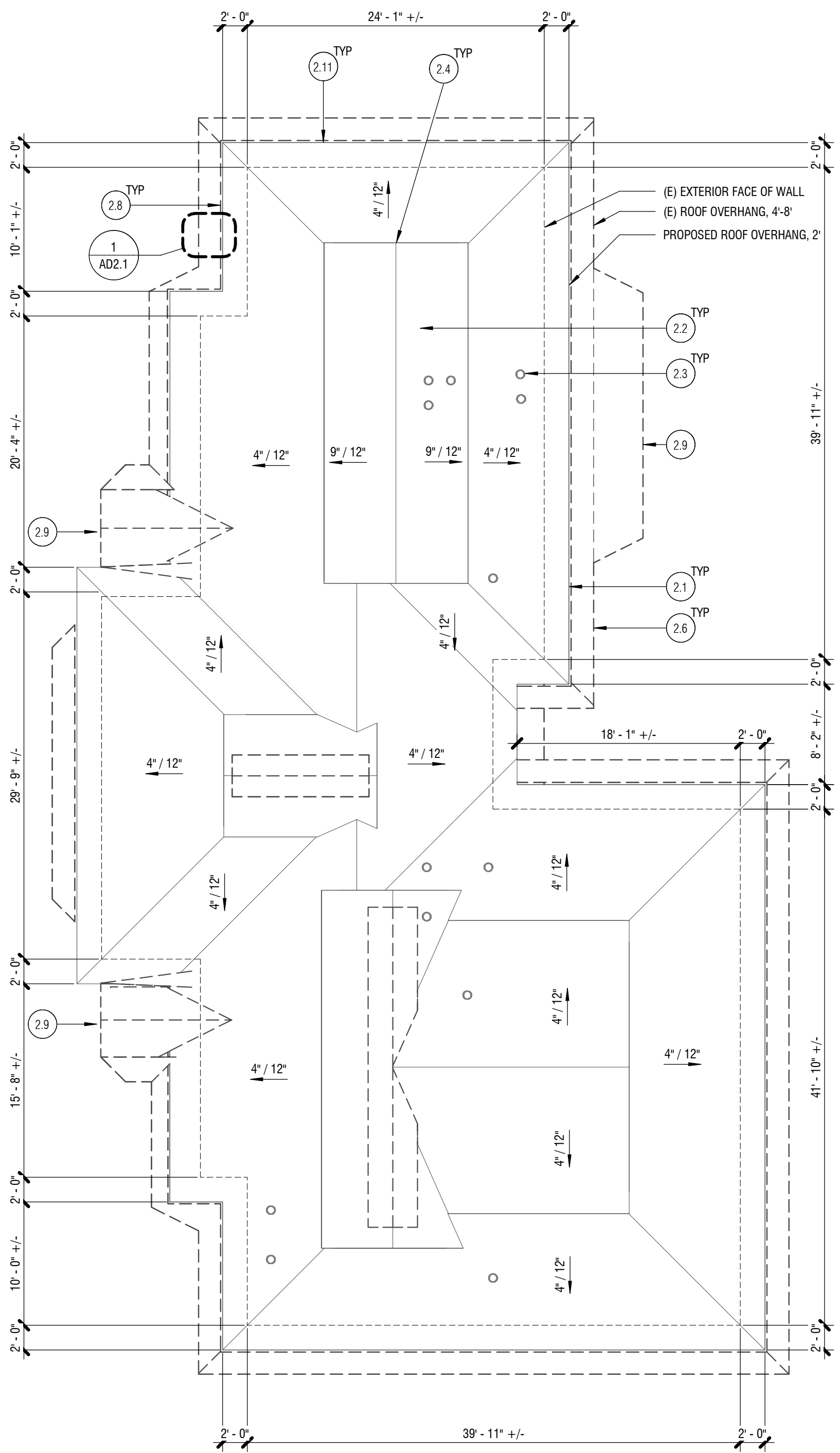
Revisions:
No. Date Remarks

1 SITE PLAN
1" = 30'-0"

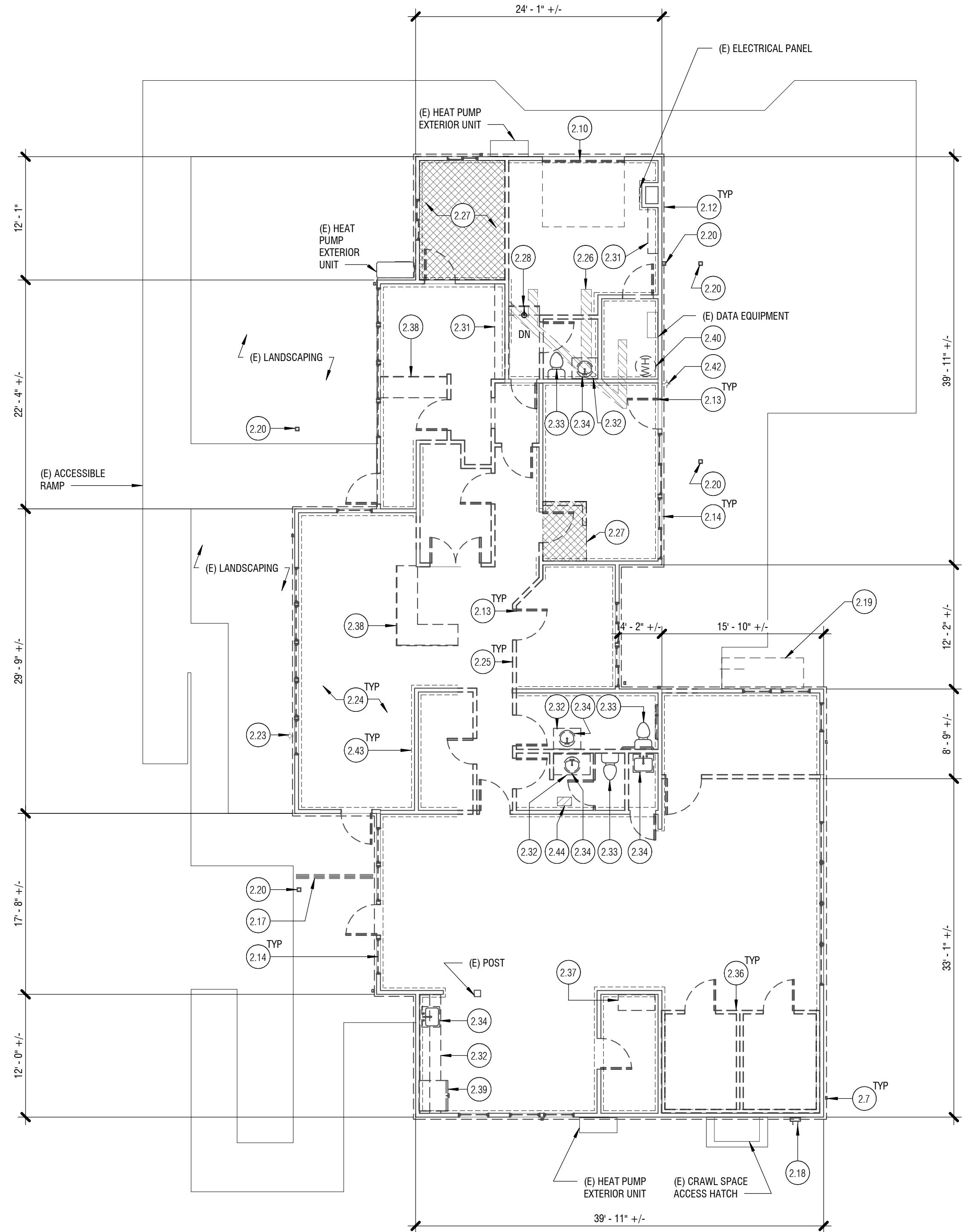
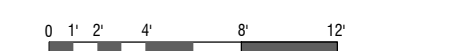




1 DEMO SECTION - ROOF OVERHANG
1/2" = 1'-0"



2 DEMO ROOF PLAN
1/8" = 1'-0"



3 DEMO FIRST FLOOR PLAN
1/8" = 1'-0"



DEMO LEGEND:

(---)	DEMOLISH
(---)	(E) WALL
(Hatched)	DEMOLISH (E) FLOOR TO (E) SLAB ON GRADE
(Hatched)	DEMOLISH (E) SLAB ON GRADE TO ACCESS (E) PLUMBING

DEMO PLAN GENERAL NOTES:
1. DEMO (E) GWB AT INTERIOR WALLS, PARTITIONS AND CEILINGS.

KEYNOTE LEGEND

MARK	KEYNOTE TEXT
2.1	DEMO (E) ROOFING, AND (E) FLASHING. REMOVE AND REPLACE DAMAGED SHEATHING. FOR BID, ASSUME 25% OF SHEATHING TO BE REPLACED.
2.2	DEMO (E) RIDGE VENT AND ASSOCIATED FRAMING
2.3	DEMO (E) ROOF VENT COVER
2.4	DEMO (E) GABLE FACE VENT COVER
2.6	DEMO (E) GUTTER
2.7	DEMO (E) DOWNSPOUT
2.8	DEMO (E) EAVE TO 2' FROM FACE OF (E) WALL
2.9	DEMO (E) AWNING AND STRUCTURE
2.10	DEMO (E) ROLL-UP DOOR, TRACK AND ACCESSORIES
2.11	DEMO (E) SOFFIT AT EAVE
2.12	DEMO (E) SIDING, (E) WEATHER BARRIER, AND (E) TRIM. REMOVE AND REPLACE DAMAGED SHEATHING. FOR BID, ASSUME 25% OF SHEATHING TO BE REPLACED.
2.13	DEMO (E) DOOR INCLUDING (E) DOOR FRAME, (E) DOOR HARDWARE, (E) DOOR THRESHOLD, AND (E) INTERIOR TRIM
2.14	DEMO (E) WINDOW INCLUDING (E) EXTERIOR AND INTERIOR TRIM, AND (E) WINDOW TREATMENTS
2.17	DEMO (E) METAL GUARDRAIL
2.18	DEMO (E) GAS METER, CAP (E) PIPING PER MECH
2.19	DEMO (E) REFRIGERATION EQUIPMENT AND ASSOCIATED CONDUIT
2.20	DEMO (E) POST
2.23	DEMO (E) HOSE BIBB
2.24	DEMO (E) CARPET AND (E) BASE
2.25	DEMO (E) PARTITION
2.26	DEMO (E) APPROX EXTENT OF SLAB DEMO FOR PLUMBING, PER MECH
2.27	DEMO (E) FRAMED FLOOR TO (E) CONC SLAB ON GRADE
2.28	DEMO (E) STAIR AND HANDRAIL
2.31	DEMO (E) CASEWORK
2.32	DEMO (E) COUNTERTOP AND (E) CASEWORK
2.33	DEMO (E) TOILET FIXTURE, (E) PIPING TO BE REROUTED
2.34	DEMO (E) SINK FIXTURE, (E) PIPING TO BE REROUTED
2.36	DEMO (E) WALK-IN COOLER, BY OTHERS
2.37	DEMO (E) HVAC UNIT PER MECH
2.38	DEMO (E) RECEPTION DESK
2.39	DEMO (E) REFRIGERATOR
2.40	DEMO (E) WATER HEATER
2.42	DEMO (E) PLUMBING
2.43	DEMO (E) GWB AT INTERIOR WALLS AND PARTITIONS
2.44	DEMO (E) FLOOR REGISTER

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DEMO PLANS
AD2.1

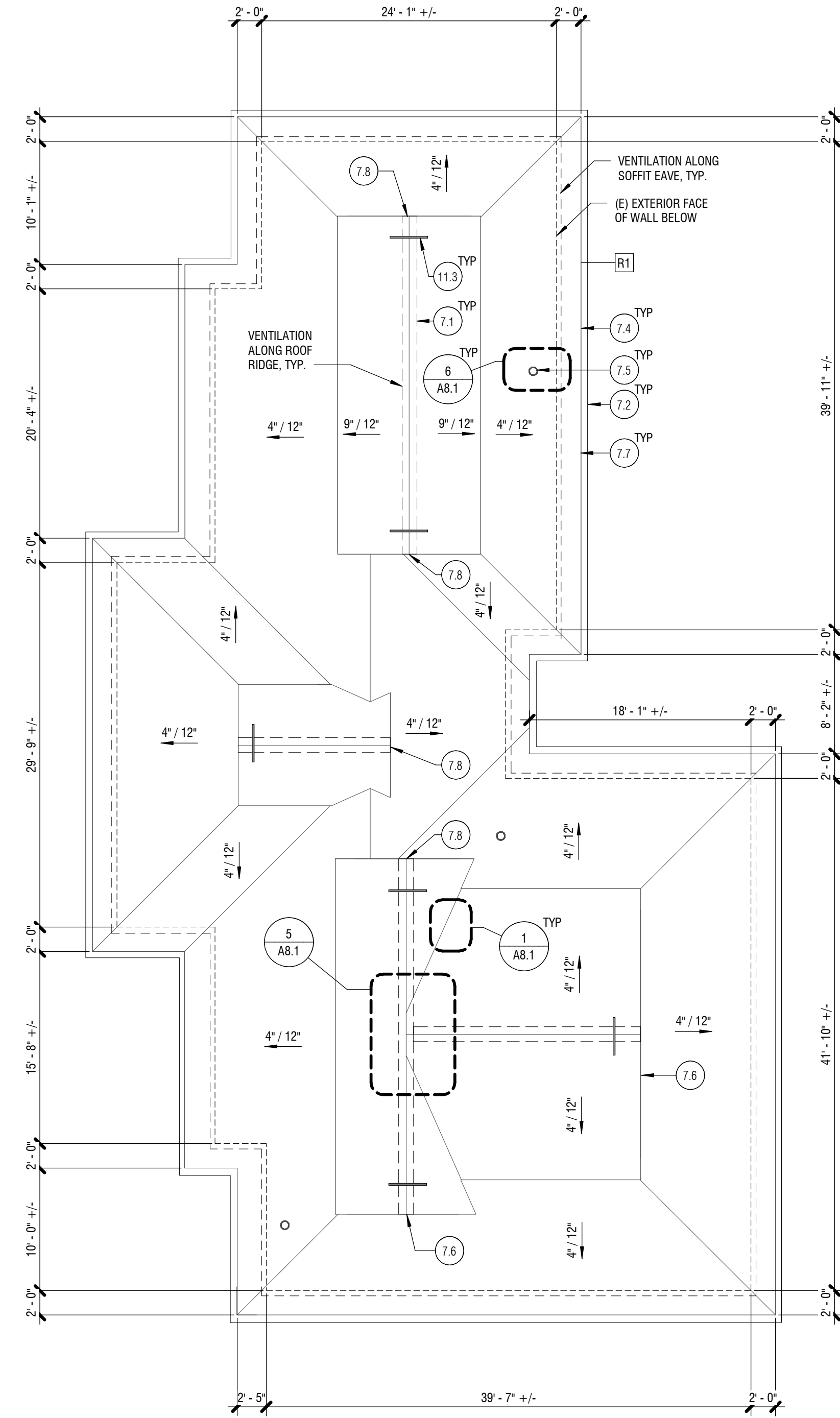


IBC 1202.2- ROOF VENTILATION:

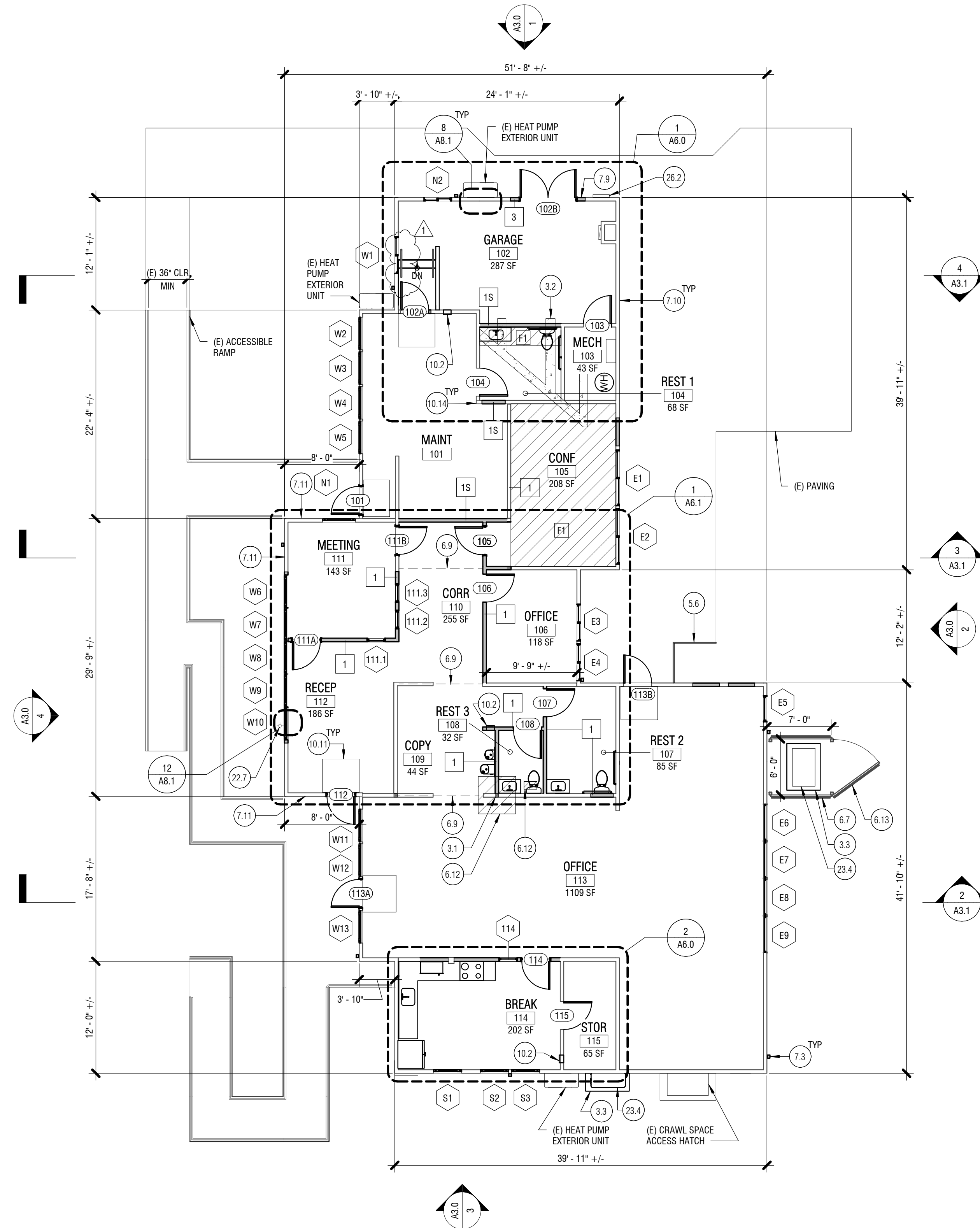
ROOF
AREA = 3,496 SF = 503,424 SQ. IN.
1/150 X 503,424 SQ. IN. = 3,356 SQ. IN. NFVA

REQUIRED RIDGE VENT AREA = 50% X 3,356 SQ. IN. = 1,678 SQ. IN. NFVA
PROPOSED RIDGE VENT: COR-A-VENT V-600 = 20 SQ. IN. NFVA PER LF
1,678 SQ. IN. NFVA / 20 SQ. IN. NFVA PER LF = **84 LF NEEDED (~87 LF PROVIDED)**

REQUIRED INTAKE VENT AREA @ EAVE = 1,678 SQ. IN. NFVA
PROPOSED EAVE VENT: COR-A-VENT S400 = 10 SQ. IN. NFVA PER LF
1,678 SQ. IN. NFVA / 10 SQ. IN. NFVA PER LF = **168 LF NEEDED (~263 LF PROVIDED)**



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



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



PLAN LEGEND

- (E) WALL
- WALL
- FRAMED FLOOR
- CONC FLOOR PATCH
- ACCESSIBILITY CLEARANCE

GENERAL NOTES
1. CONTRACTOR TO COORDINATE AND PROVIDE POWER TO OWNER FURNITURE SYSTEMS PER ELEC.

KEYNOTE LEGEND

MARK	KEYNOTE TEXT
3.1	CONC FOOTING AT CRAWLSPACE PER STRUCT
3.2	PATCH CONC SLAB
3.3	CONCRETE HOUSEKEEPING PAD PER MECH
5.6	METAL GUARDRAIL
6.7	FENCE, CEDAR HORIZONTAL PLANKS ON TREATED FRAMING
6.9	BEAM ABOVE CEILING PER STRUCT
6.12	FLOOR SHEATHING PER STRUCT
6.13	GATE TO MATCH FENCE
7.1	ROOF RIDGE VENT
7.2	METAL GUTTER
7.3	METAL DOWNSPOUT
7.4	SOFFIT, VENTED
7.5	ROOF VENT, PER MECH
7.6	LOUVER GABLE FACE VENT, PER MECH
7.7	REPLACE DAMAGED SHEATHING WITH 1/2" CDX PLYWOOD. PROVIDE UNIT PRICING FOR BID, ASSUME 25% OF SHEATHING TO BE REPLACED.
7.8	INFILL OPENING AT DEMO'D GABLE END VENTS
7.9	INFILL FRAMING TO ROUGH OPENING OF PROPOSED DOOR
7.10	FIBER CEMENT LAP SIDING
7.11	FIBER CEMENT PANEL
10.2	FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER
10.11	DOOR MAT, FOIO
10.14	CORNER GUARDS AT GWB CORNERS THROUGHOUT
11.3	ROOF ANCHOR (6). VERIFY QUANTITY AND LOCATION PER MFR RECS.
22.7	HOSE BIBB
23.4	OUTDOOR UNIT PER MECH
26.2	EV CHARGING STATION

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1	9/22/2023	Revision 1	

FIRST FLOOR
PLAN & ROOF
PLAN

A2.1.1



SIGNAGE SCHEDULE		
MARK	TYPE	COUNT
S1	EXTERIOR: BUILDING NAME & ADDRESS	1
S2	EXTERIOR: PUBLIC ENTRY	1
S3	EXTERIOR: STAFF-ONLY ENTRY	4
S4	INTERIOR: FIRE EXTINGUISHER	3
S5	INTERIOR: ACCESSIBLE RESTROOM, ALL GENDERS	2
S6	INTERIOR RESTROOM, ALL GENDERS	1
S7	INTERIOR: ROOM SIGNAGE	8

GENERAL NOTES
1. SIGNAGE PER OWNER'S STANDARDS.

RM#	ROOM NAME	FLOOR		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING	
		MATL	BASE	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN
101	MAINT	RES	RES	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1
102	GARAGE	(E) CONC	RES	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1
103	MECH	(E) CONC	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
104	REST 1	RES	RES	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1
105	CONF	CPT	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
106	OFFICE	CPT	RES	GWB	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
107	REST 2	RES	RES	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1
108	REST 3	RES	RES	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB, FRP UP TO 48"	PNT-1	GWB	PNT-1
109	COPY	CPT	RES	GWB	PNT-1	-	-	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
110	CORR	CPT	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
111	MEETING	CPT	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
112	RECEP	CPT	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
113	OFFICE	CPT	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
114	BREAK	RES	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1
115	STOR	RES	RES	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1

INTERIOR PAINT LEGEND
PNT-1: FIELD PAINT
BENJAMIN MOORE WHITE DOVE OC-17
PNT-2: DOOR, WINDOW, AND RELITE FRAMES
BENJAMIN MOORE STARDUST 2108-40

FLOOR FINISH LEGEND

- CARPET TILE
- RESILIENT FLOORING
- SEAL (E) CONCRETE

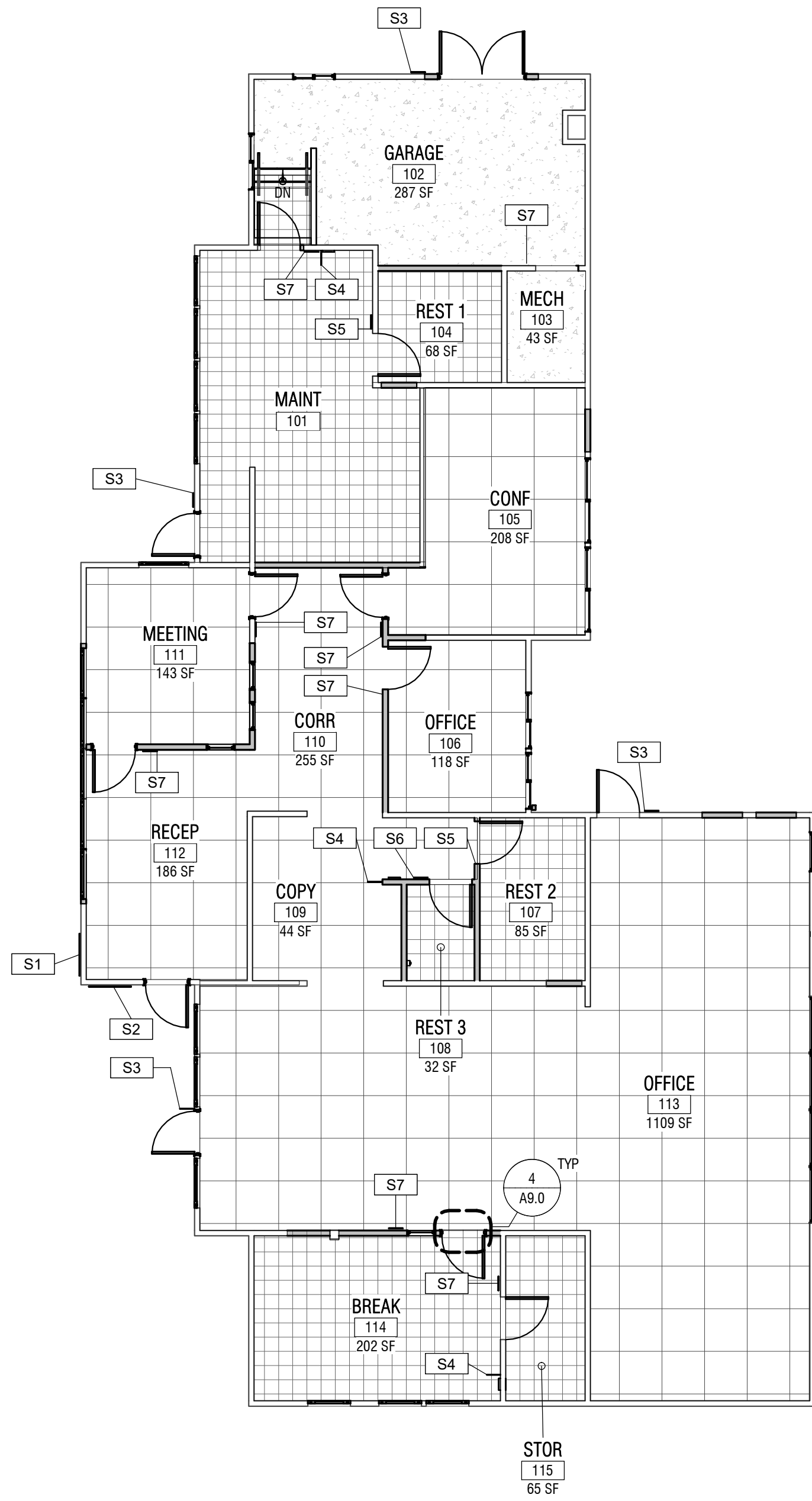
RCP LEGEND

- VAULTED CEILING
- GWB
- ATTIC ACCESS HATCH
- SUPPLY DIFFUSER, PER MECH
- RETURN GRILLE, PER MECH
- INDOOR UNIT, PER MECH

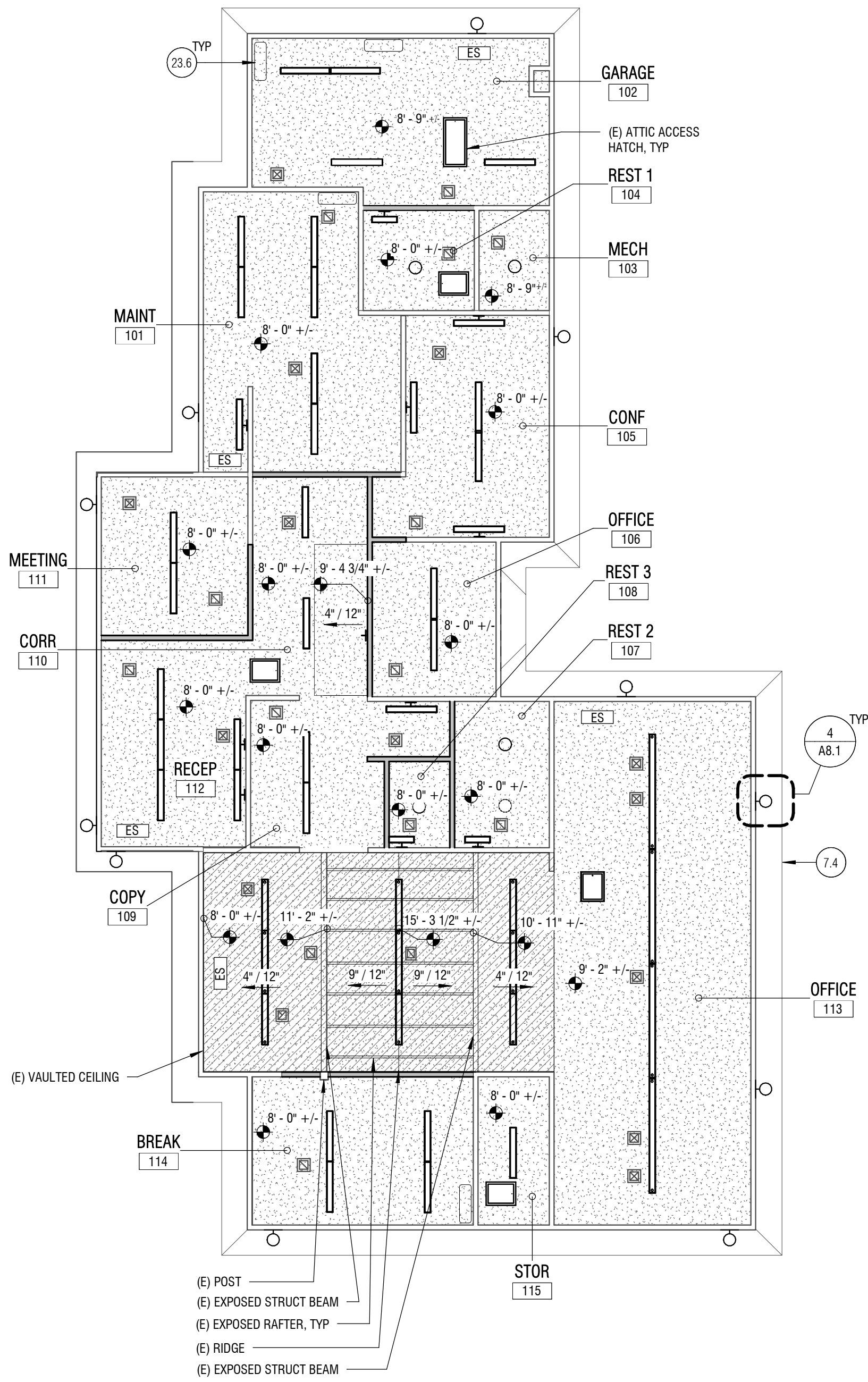
- SURFACE MOUNTED LIGHTING FIXTURE, PER ELEC
- PENDANT LIGHTING FIXTURE, PER ELEC
- WALL MOUNTED LIGHTING FIXTURE, PER ELEC
- SURFACE MOUNTED LIGHTING FIXTURE, PER ELEC
- WALL MOUNTED EXTERIOR LIGHTING FIXTURE, PER ELEC
- EXIT SIGN, PER ELEC

GENERAL NOTES
1. CENTER LIGHTING FIXTURES IN ROOM UNLESS OTHERWISE NOTED.

KEYNOTE LEGEND	
MARK	KEYNOTE TEXT
7.4	SOFFIT, VENTED
23.6	INDOOR UNIT PER MECH



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



2 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



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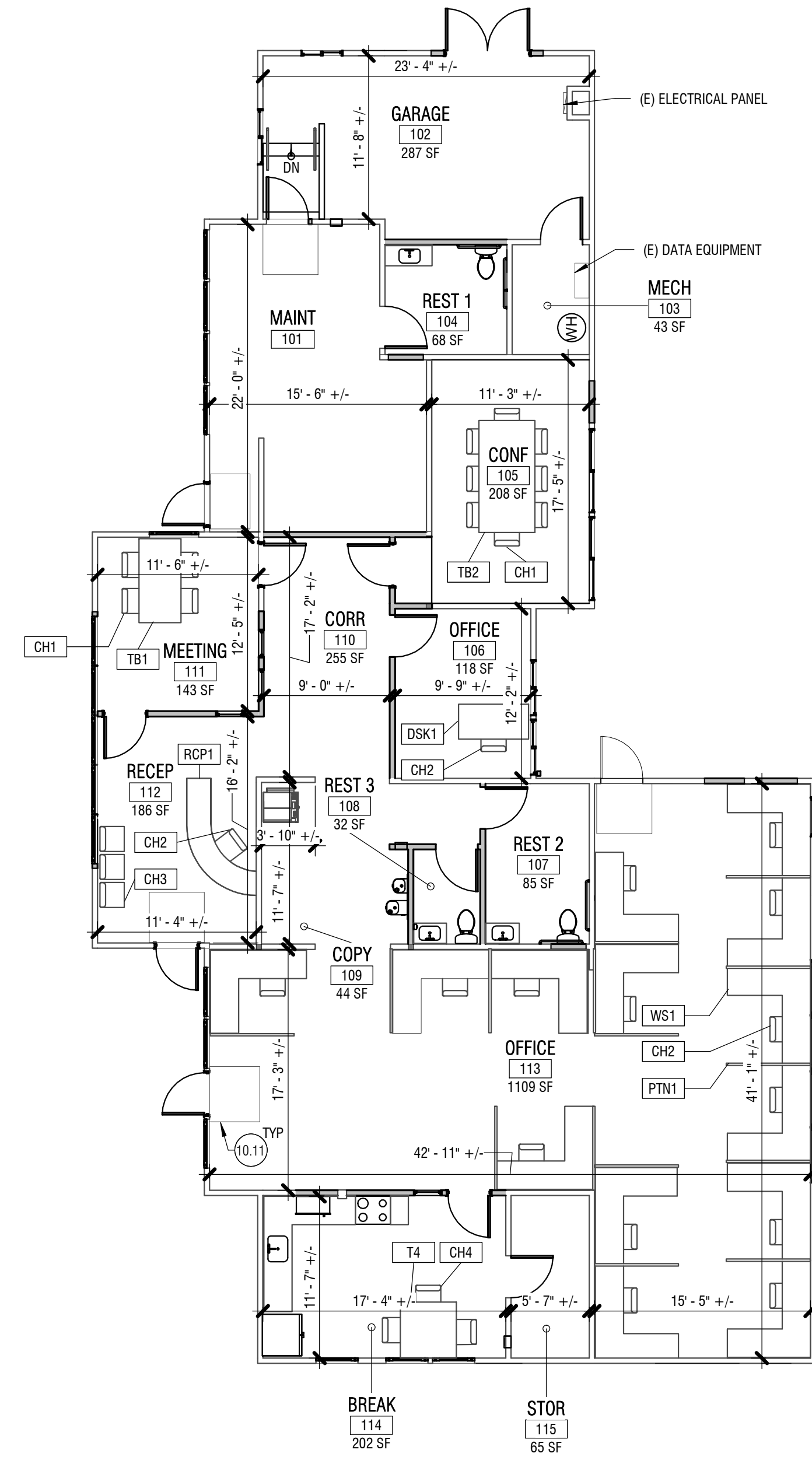
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FIRST FLOOR
FINISH PLAN &
RCP

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FURNITURE SCHEDULE BY ROOM			
MARK	TYPE	COUNT	COMMENTS
105 CONF			
CH1	MEETING CHAIR	8	FOIO
TB2	CONFERENCE TABLE	1	FOIO, 4' WIDTH x 6' LENGTH
106 OFFICE			
CH2	OFFICE CHAIR	1	FOIO
DSK1	OFFICE DESK	1	FOIO
111 MEETING			
CH1	MEETING CHAIR	4	FOIO
TB1	MEETING TABLE	1	FOIO, 3' WIDTH x 6' LENGTH
112 RECEPTION			
CH2	OFFICE CHAIR	1	FOIO
CH3	RECEPTION / WAITING CHAIR	3	FOIO
RCP1	RECEPTION DESK	1	FOIO
113 OFFICE			
CH2	OFFICE CHAIR	14	FOIO
PTN1	PARTITION 1	15	6' LENGTH
WS1	WORK STATION	14	FOIO, 7' WIDTH x 6' LENGTH
114 BREAK			
CH4	BREAK CHAIR	3	FOIO
T4	BREAK ROOM TABLE	1	FOIO, 4' WIDTH x 4' LENGTH

GENERAL NOTES
1. CONTRACTOR TO COORDINATE AND PROVIDE POWER TO OWNER FURNITURE SYSTEMS PER ELEC.

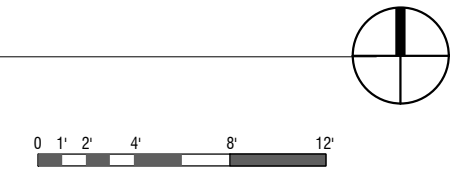
KEYNOTE LEGEND	
MARK	KEYNOTE TEXT
10.11	DOOR MAT, FOIO

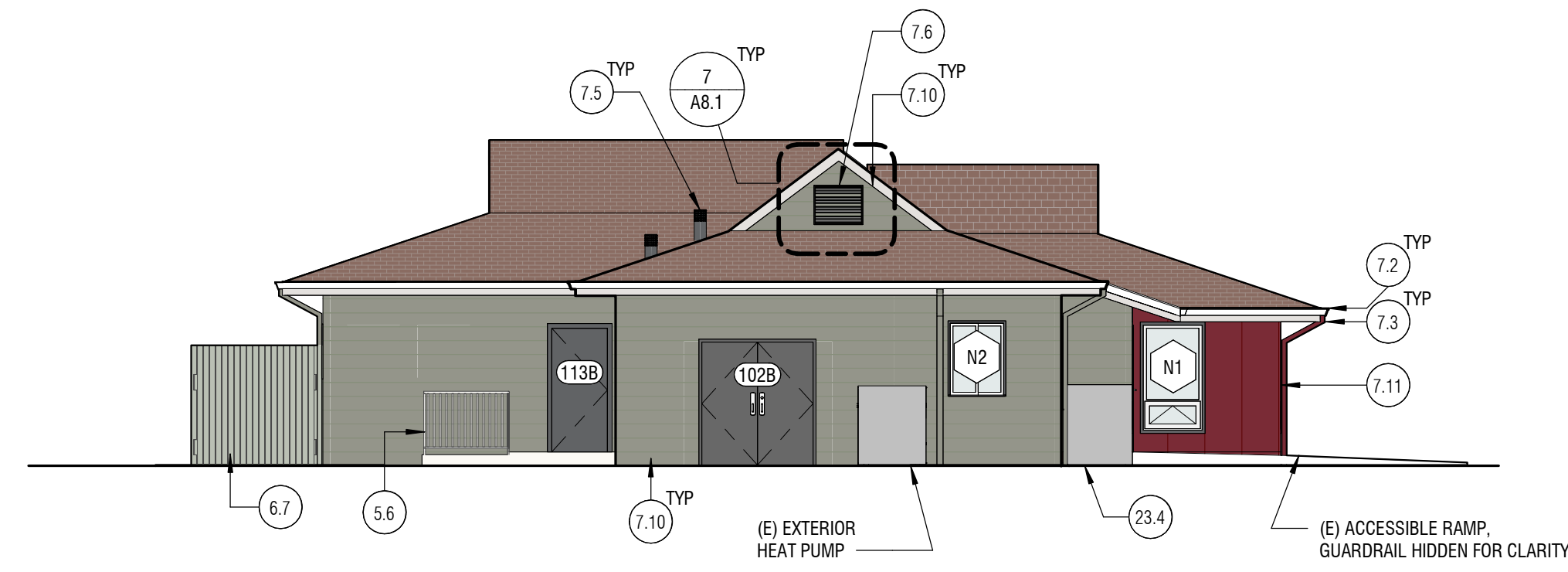
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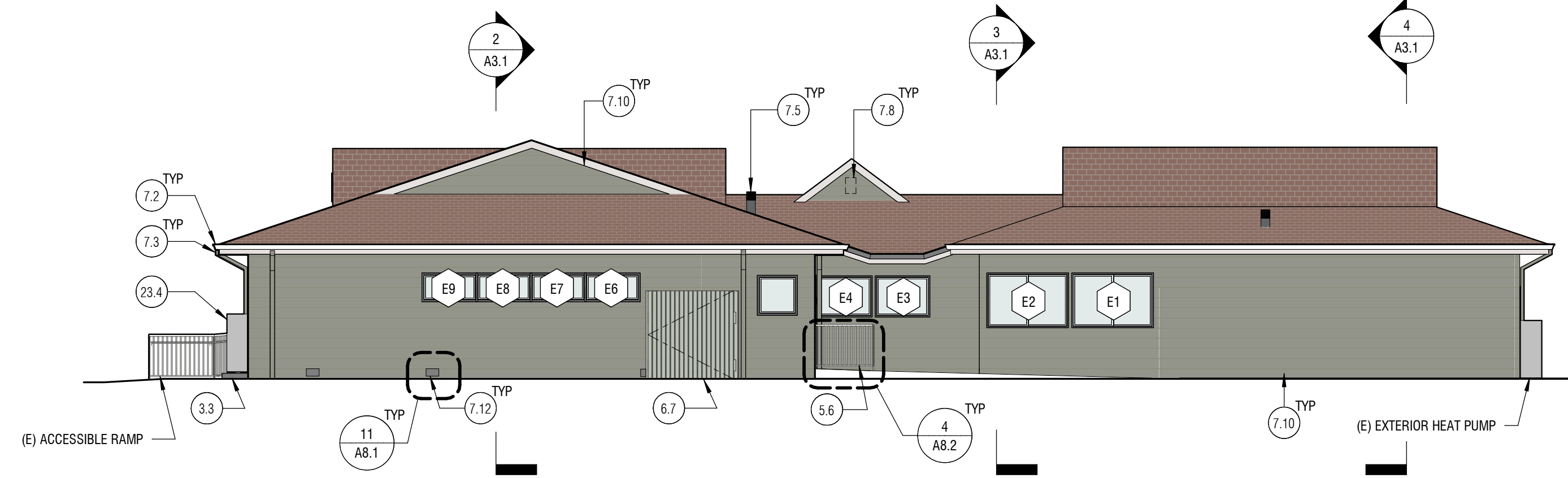
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2 FIRST FLOOR FF&E PLAN
1/8" = 1'-0"

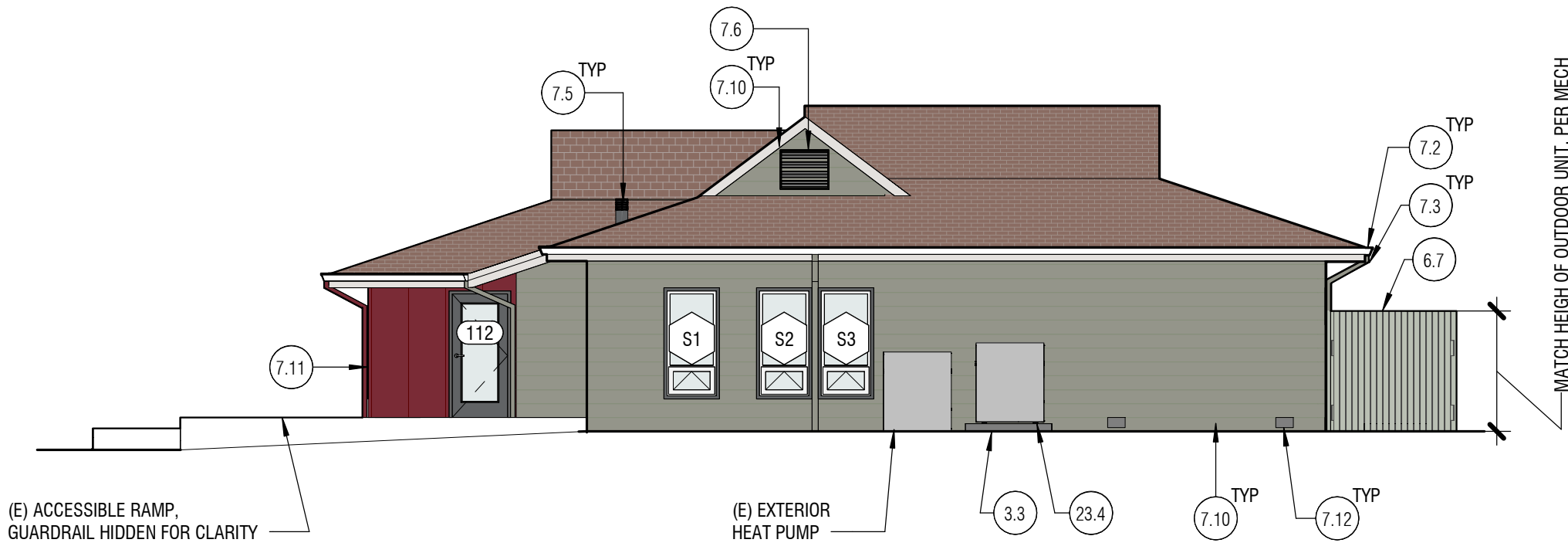




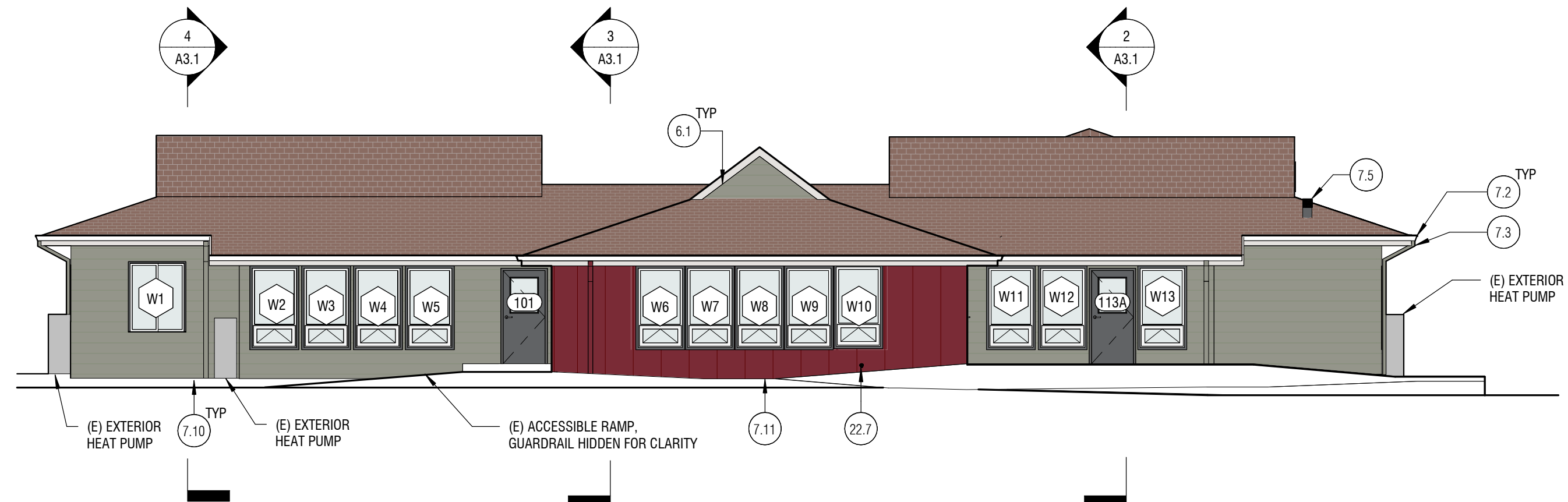
1 NORTH ELEVATION
1/8" = 1'-0"



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



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



4 WEST ELEVATION
1/8" = 1'-0"

ELEVATION FINISH LEGEND

	PNT-3: FIELD PAINT ON FIBER CEMENT LAP SIDING BENJAMIN MOORE DESERT TWILIGHT 2137-40
	PNT-4: ROOF TRIM BENJAMIN MOORE BRUTON WHITE CW-710
	PNT-5: WINDOW & DOOR TRIM BENJAMIN MOORE GRAY 2121-10
	PNT-6: ACCENT COLOR ON FIBER CEMENT PANEL BENJAMIN MOORE BRICK RED 2084-10

KEYNOTE LEGEND

MARK	KEYNOTE TEXT
3.3	CONCRETE HOUSEKEEPING PAD PER MECH
5.6	METAL GUARDRAIL
6.1	FIBER CEMENT SIDING
6.7	FENCE, CEDAR HORIZONTAL PLANKS ON TREATED FRAMING
7.2	METAL GUTTER
7.3	METAL DOWNSPOUT
7.5	ROOF VENT, PER MECH
7.6	LOUVER GABLE FACE VENT, PER MECH
7.8	INFILL OPENING AT DEMO'D GABLE END VENTS
7.10	FIBER CEMENT LAP SIDING
7.11	FIBER CEMENT PANEL
7.12	CRAWLSPACE VENT COVER
22.7	HOSE BIBB
23.4	OUTDOOR UNIT PER MECH

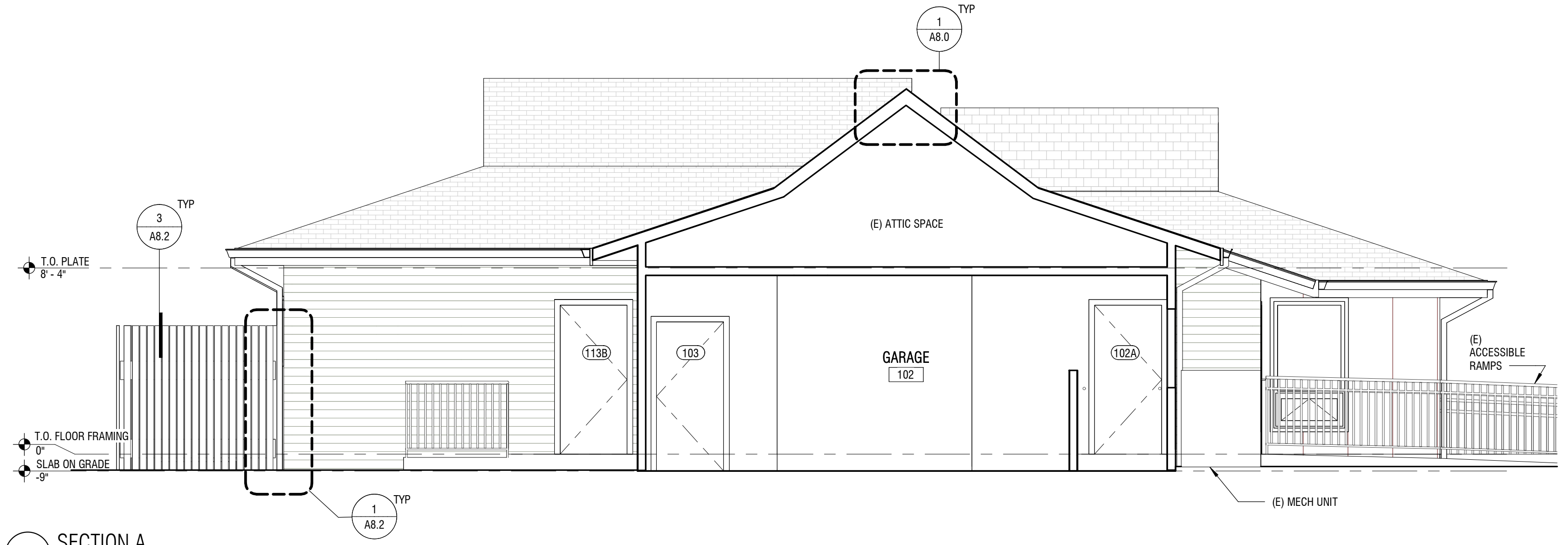
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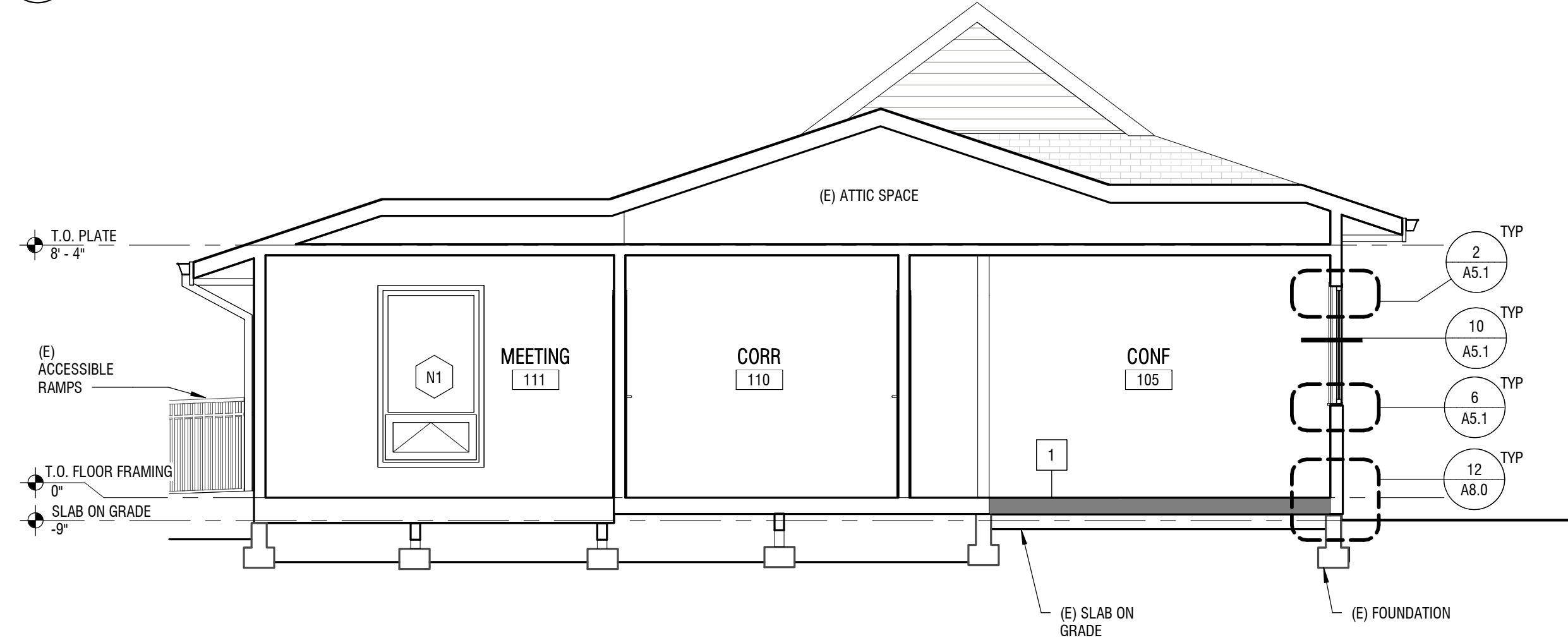
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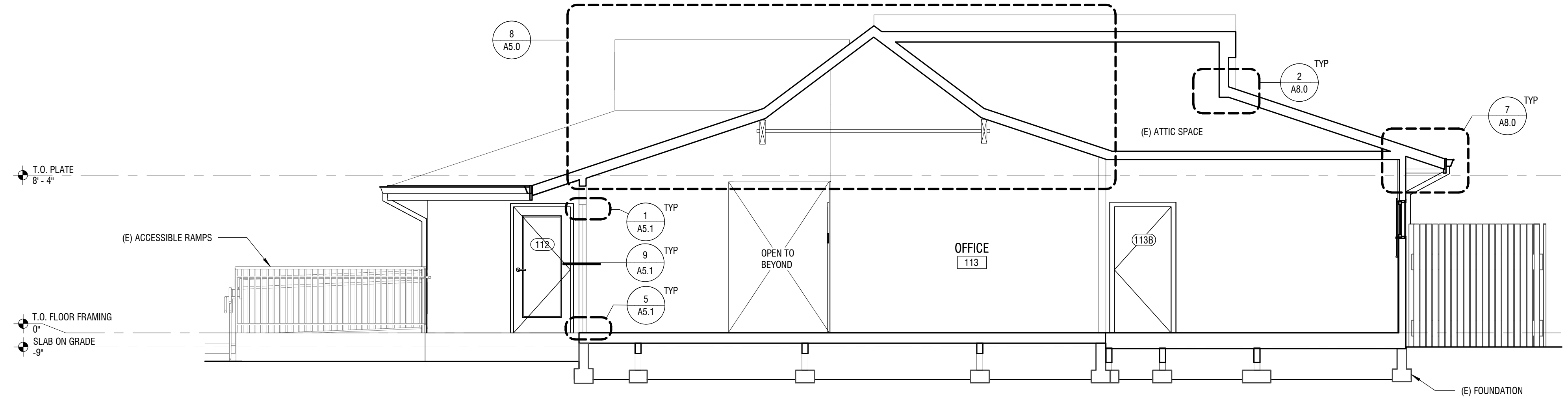
EXTERIOR
ELEVATIONS
A3.0



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



3 SECTION B
1/4" = 1'-0"



2 SECTION C
1/4" = 1'-0"

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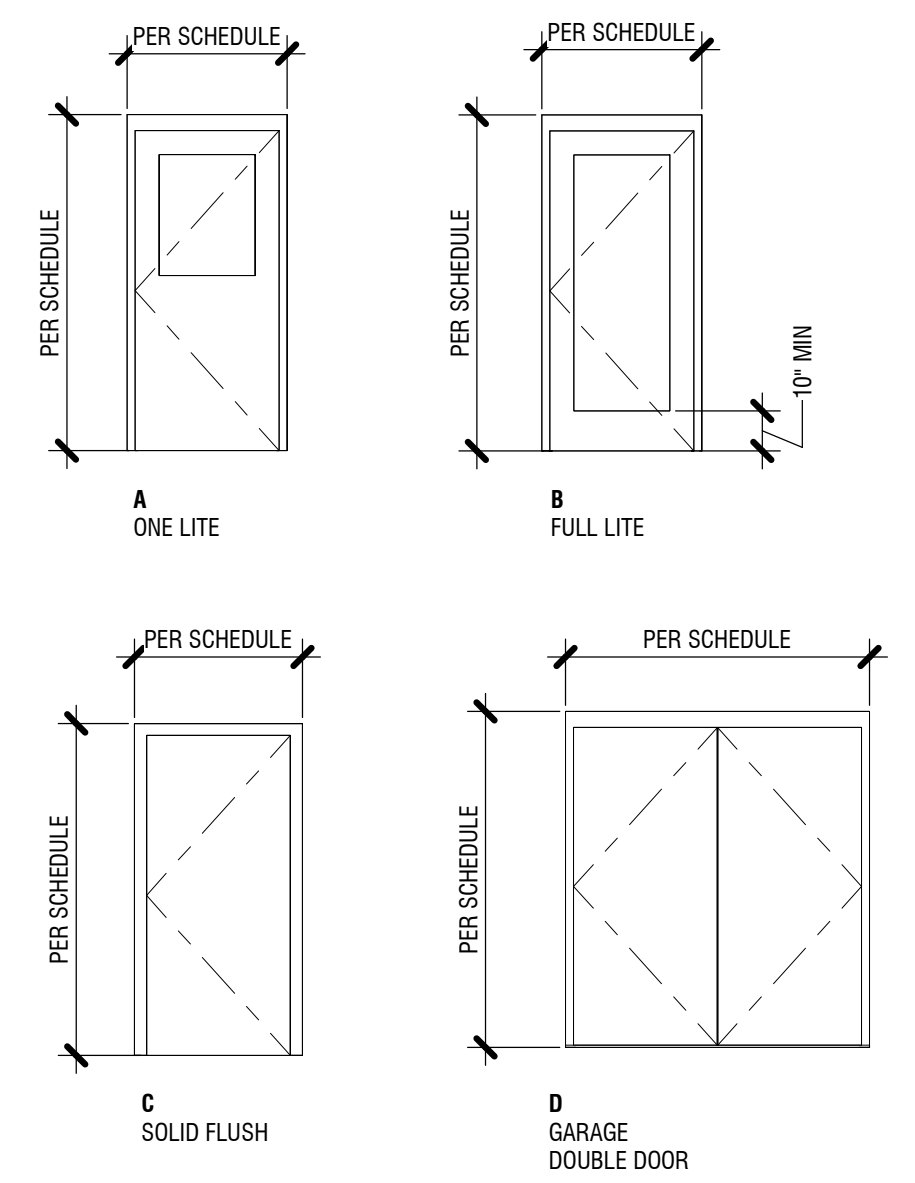
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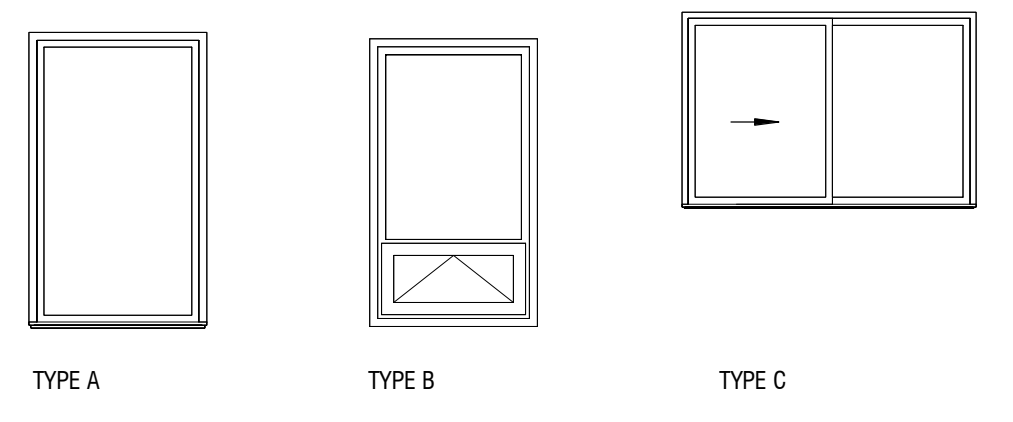
BUILDING
SECTIONS

A3.1



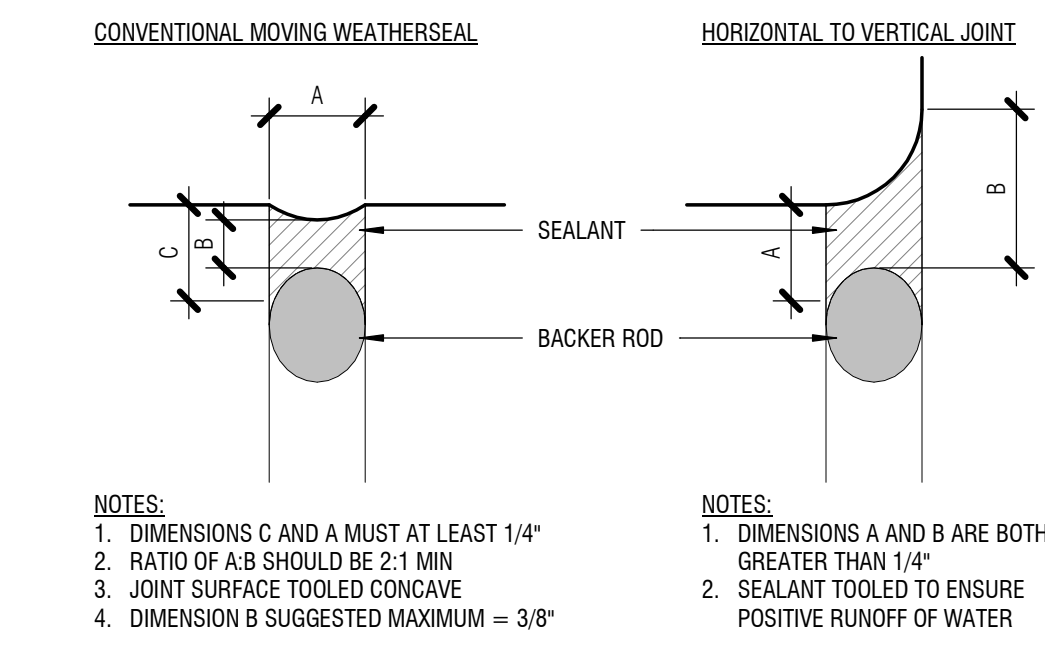
DOOR SCHEDULE						
MARK	Type	LEAF SIZE		DOOR		COMMENTS
		W	H	MATERIAL	FINISH	
101	A	3'-0"	6'-8"	FIBERGLASS	PNT	SAFETY GLAZING, ELECTRONIC LOCK
102A	C	3'-0"	6'-8"	WOOD	STAIN	
102B	D	6'-0"	6'-8"	FIBERGLASS	PNT	
103	C	3'-0"	6'-8"	WOOD	STAIN	LOUVERED DOOR OPENING IN UPPER PORTION OF DOOR, 130 SQ IN MIN
104	C	3'-0"	6'-8"	WOOD	STAIN	
105	B	3'-0"	6'-8"	WOOD	STAIN	SAFETY GLAZING
106	C	3'-0"	6'-8"	WOOD	STAIN	
107	C	3'-0"	6'-8"	WOOD	STAIN	
108	C	3'-0"	6'-8"	WOOD	STAIN	
111A	B	3'-0"	6'-8"	WOOD	STAIN	SAFETY GLAZING
111B	B	3'-0"	6'-8"	WOOD	STAIN	SAFETY GLAZING
112	B	3'-0"	6'-8"	FIBERGLASS	PNT	SAFETY GLAZING, ELECTRONIC LOCK
113A	A	3'-0"	6'-8"	FIBERGLASS	PNT	SAFETY GLAZING, ELECTRONIC LOCK
113B	C	3'-0"	6'-8"	FIBERGLASS	PNT	
114	B	3'-0"	6'-8"	WOOD	STAIN	SAFETY GLAZING
115	C	3'-0"	6'-8"	WOOD	STAIN	

- GENERAL NOTES**
1. VERIFY EXISTING OPERABLE DIRECTIONS AND PROVIDE DOORS TO MATCH.
 2. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING OPENING DIMENSIONS AFTER OPENING MODIFICATIONS.
 3. GLAZING SHALL BE LABELED AND NFRC CERTIFIED PER MFR, AND HAVE A U-VALUE OF 0.3 OR BETTER, PER MFR, TYP. DOORS TO BE R-5 OR BETTER.
 4. PROVIDE CONTINUOUS AIR SEAL AT EXTERIOR DOORS.
 5. ALL GLAZING WITHIN 18" OF INTERIOR FLOOR, EXTERIOR WALKING SURFACE OR WITHIN 24" OF A DOOR IN ANY POSITION TO BE TEMPERED GLASS.

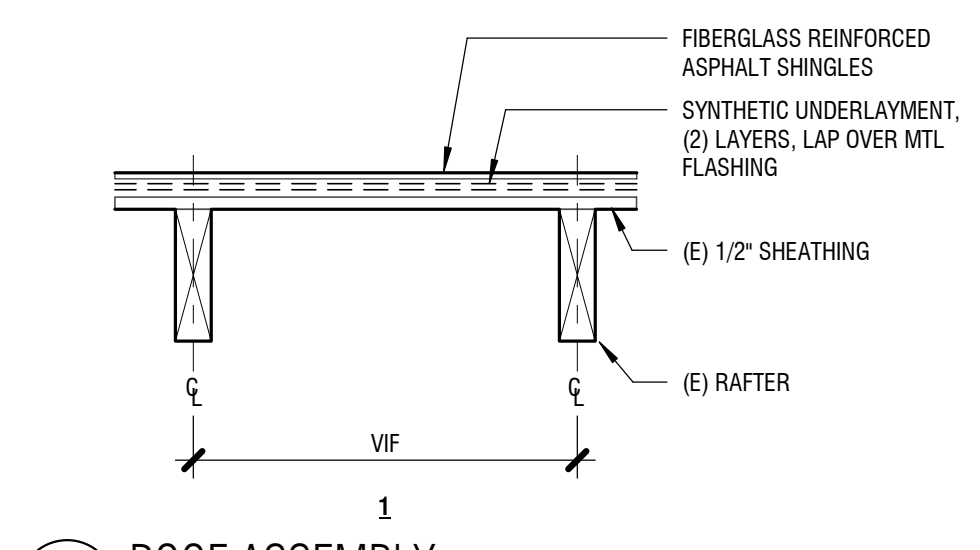


WINDOW SCHEDULE									
MARK	TYPE	WIDTH	HEIGHT	AREA	U-VALUE	SHGC	OPERATION	COMMENTS	
E1	C	6'-0"	4'-0"	24 SF	0.30	0.46	SLIDER		
E2	C	6'-0"	4'-0"	24 SF	0.30	0.46	SLIDER		
E3	C	4'-0"	3'-0"	12 SF	0.30	0.46	SLIDER		
E4	C	4'-0"	3'-0"	12 SF	0.30	0.46	SLIDER		
E5	A	2'-10"	2'-10"	8 SF	0.30	0.46	FIXED		
E6	A	4'-0"	2'-0"	8 SF	0.30	0.46	FIXED		
E7	A	4'-0"	2'-0"	8 SF	0.30	0.46	FIXED		
E8	A	4'-0"	2'-0"	8 SF	0.30	0.46	FIXED		
E9	A	4'-0"	2'-0"	8 SF	0.30	0.46	FIXED		
N1	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS, PRIVACY FILM	
N2	C	3'-0"	4'-0"	12 SF	0.30	0.46	SLIDER		
S1	B	3'-0"	6'-0"	18 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
S2	B	3'-0"	6'-0"	18 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
S3	B	3'-0"	6'-0"	18 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W1	C	4'-0"	5'-0"	20 SF	0.30	0.46	SLIDER		
W2	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W3	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W4	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W5	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W6	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS, PRIVACY FILM	
W7	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS, PRIVACY FILM	
W8	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W9	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W10	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W11	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W12	A	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	
W13	B	3'-6"	6'-0"	21 SF	0.30	0.46	LOWER AWNING	SAFETY GLASS	

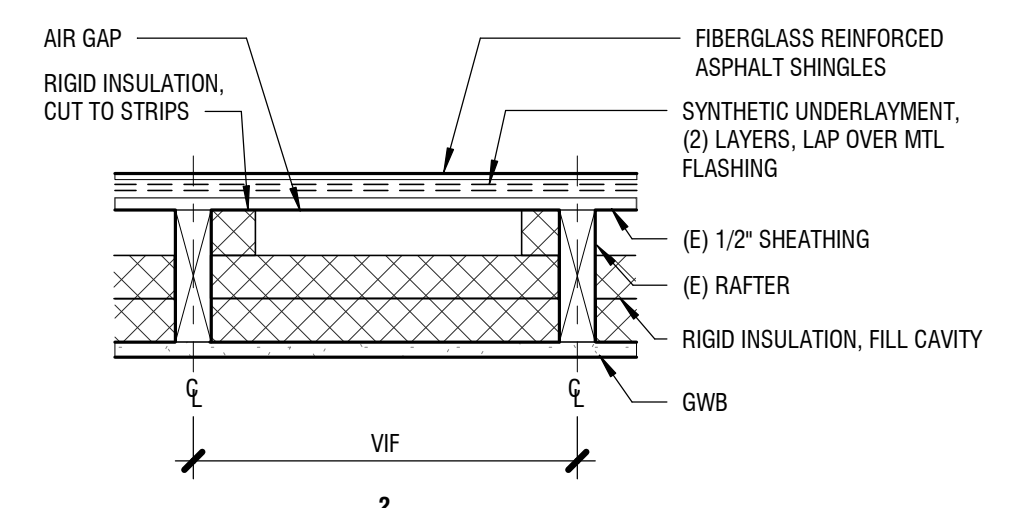
- NOTES:**
1. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS.
 2. AT OPERABLE WINDOWS, OPERABLE SASH TO MATCH EXISTING WINDOWS.
 3. ALL GLAZING SHALL BE LABELED & NFRC CERTIFIED PER MFR. ALL GLAZING WITHIN 18" OF INTERIOR FLOOR/ EXTERIOR WALKING SURFACE OR WITHIN 24" OF A DOOR IN ANY POSITION TO BE TEMPERED.
 4. ALL GLAZING SHALL HAVE A U-VALUE OF 0.30 OR BETTER, PER MFR, TYP.
 5. ALL GLAZING SHALL BE LABELED & NFRC CERTIFIED PER MFR, AND HAVE A U-VALUE OF 0.3 OR BETTER, PER MFR, TYP.
 6. SCREENS TO BE PROVIDED WITH ALL OPERABLE WINDOWS.
 7. MANUAL ROLLER SHADES TO BE PROVIDED AT ALL WINDOWS.



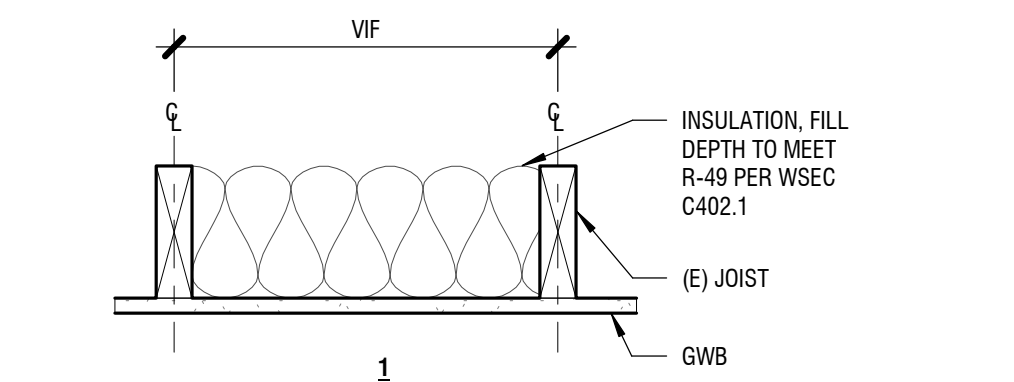
5 SEALANT JOINT & BACKER ROD
3" = 1'-0"



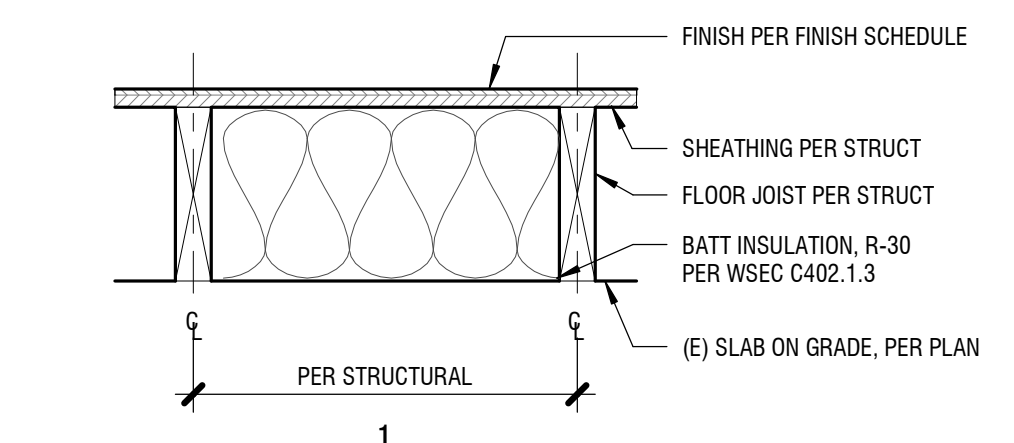
6 ROOF ASSEMBLY
1 1/2" = 1'-0"



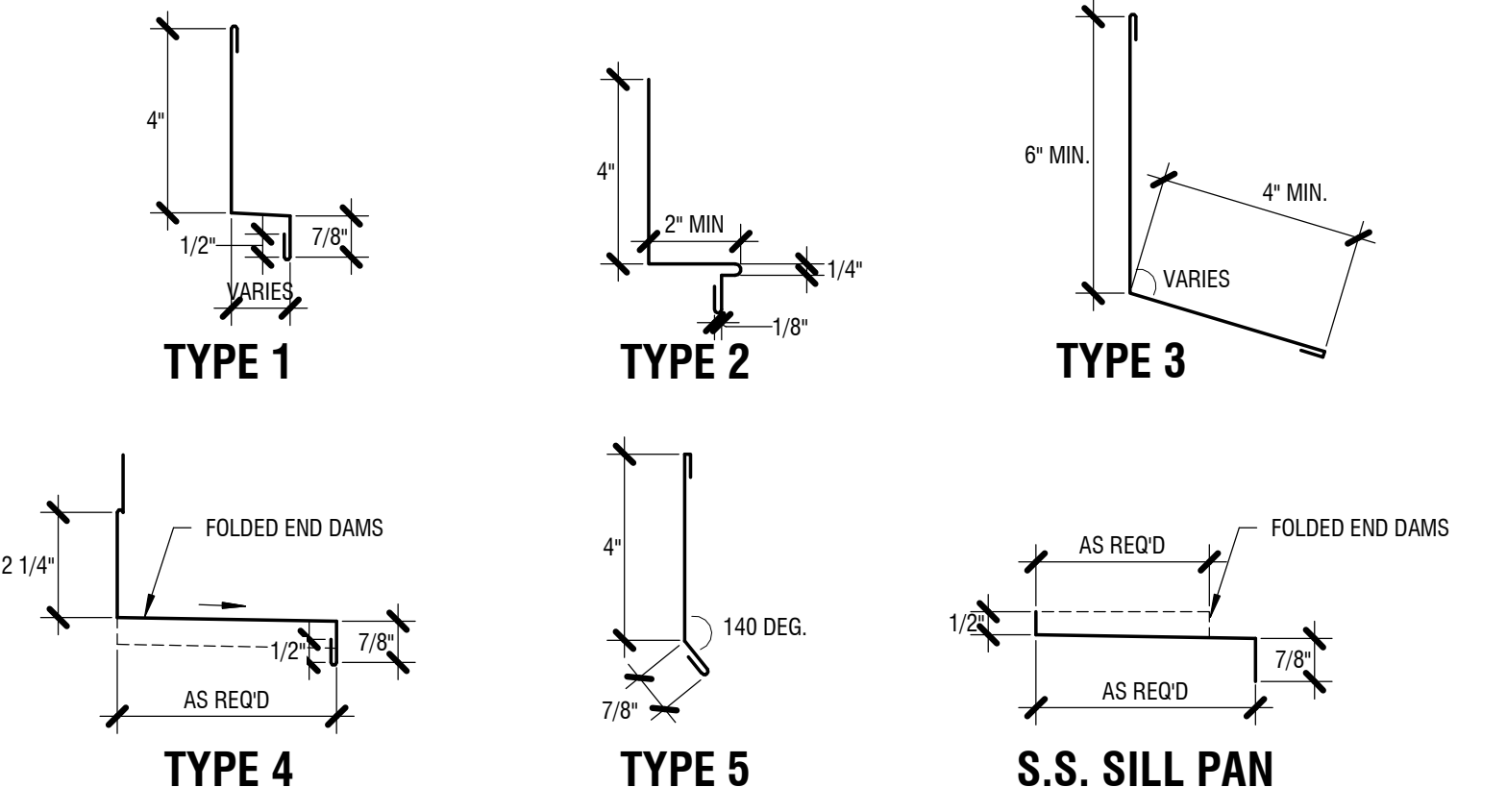
8 ROOF ASSEMBLY AT VAULTED CEILING
1 1/2" = 1'-0"



10 CEILING ASSEMBLY
1 1/2" = 1'-0"

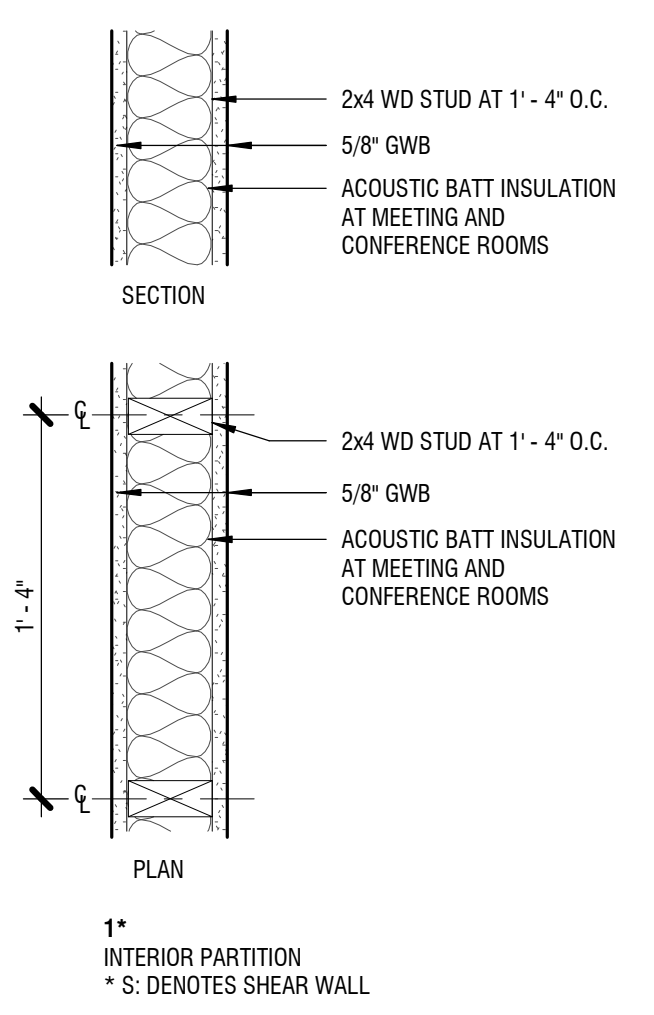
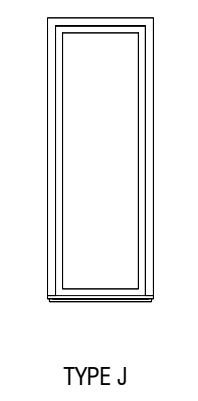


14 FLOOR ASSEMBLY
1 1/2" = 1'-0"

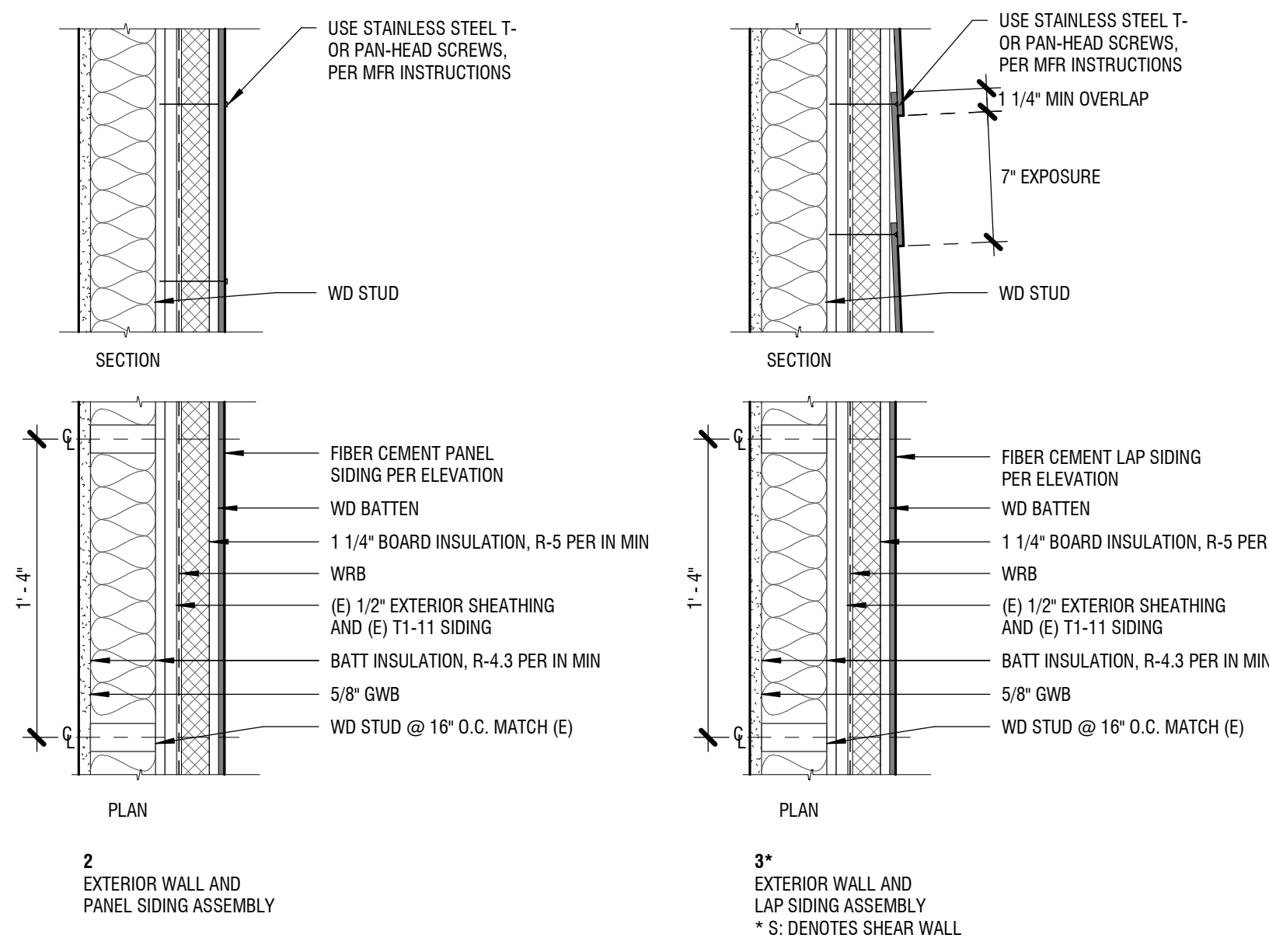


13 FLASHING TYPES
3" = 1'-0"

RELITE SCHEDULE									
MARK	TYPE	WIDTH	HEIGHT	AREA	OPERATION	COMMENTS			
111.1	J	2'-0"	5'-0"	12 SF	FIXED	SAFETY GLASS			
111.2	J	2'-0"	5'-0"	12 SF	FIXED	SAFETY GLASS			
111.3	J	2'-0"	5'-0"	12 SF	FIXED	SAFETY GLASS			
114	J	2'-0"	5'-0"	12 SF	FIXED	SAFETY GLASS			



15 WALL TYPES AND ASSEMBLIES & SIDING ASSEMBLY
1 1/2" = 1'-0"



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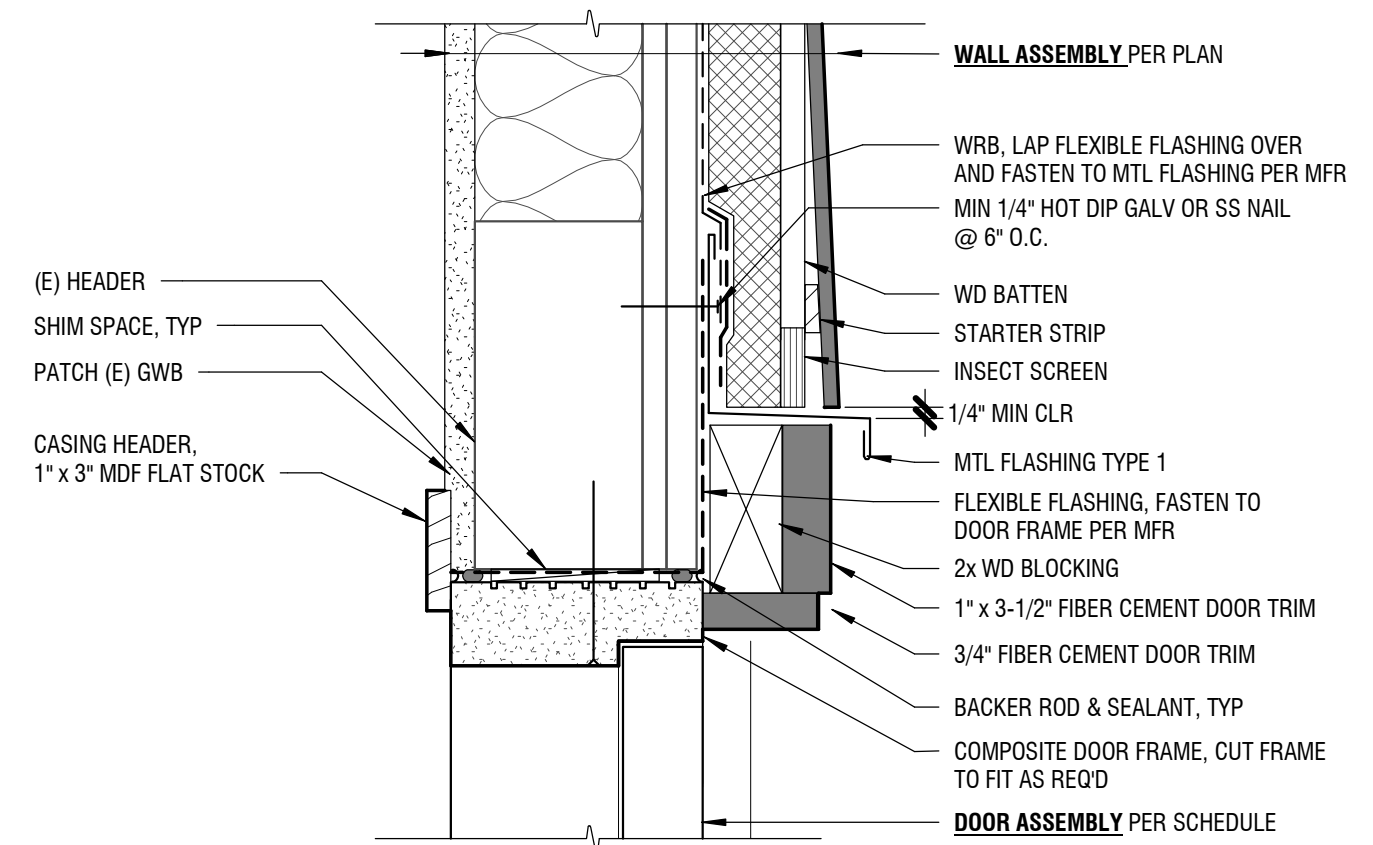
930 18TH PLACE NE
AUBURN, WA 98002

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Date: 8/17/2023
Scale: As indicated

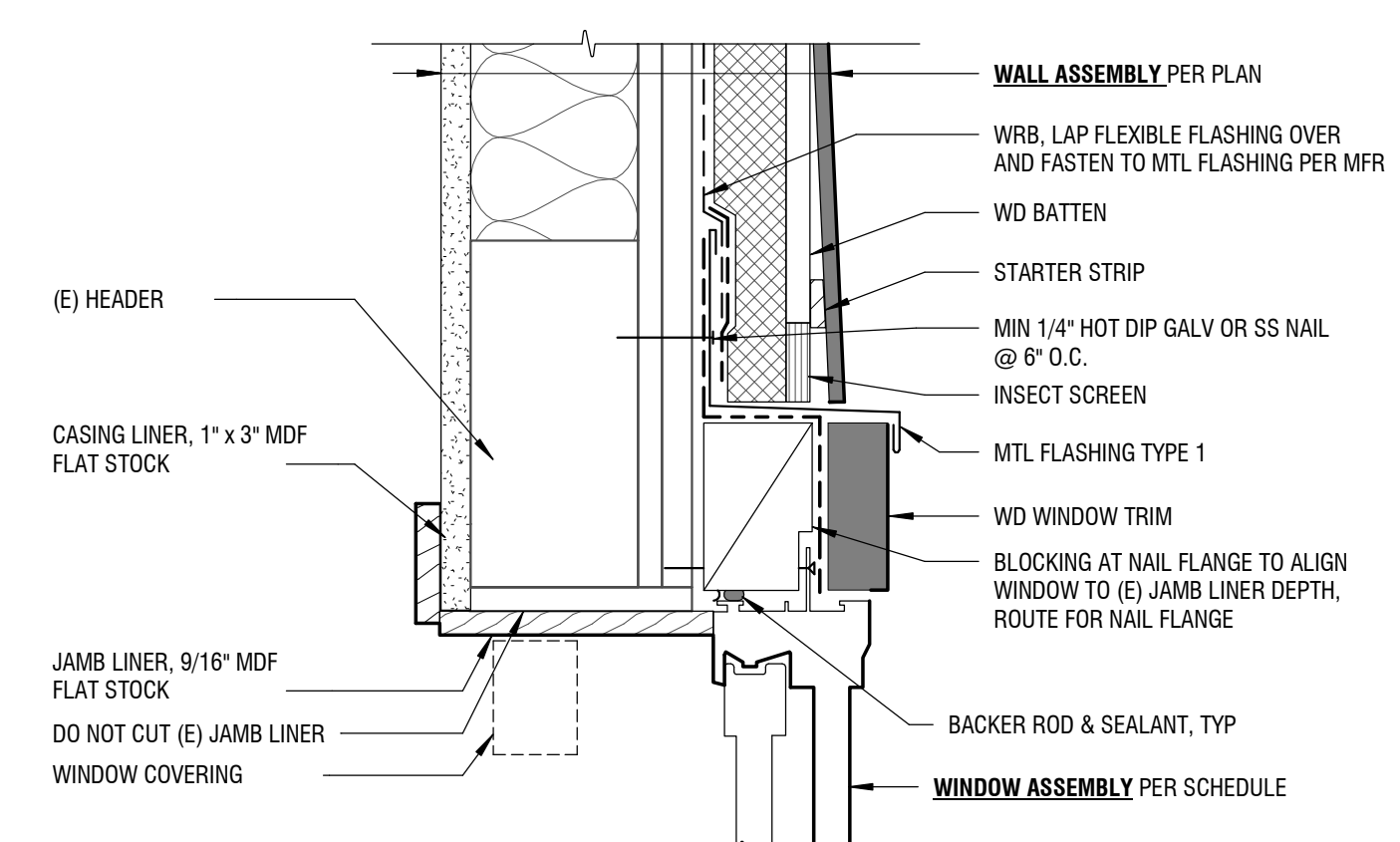
Revisions:
No. Date Remarks
1 9/22/2023 Revision 1

SCHEDULES &
ASSEMBLIES

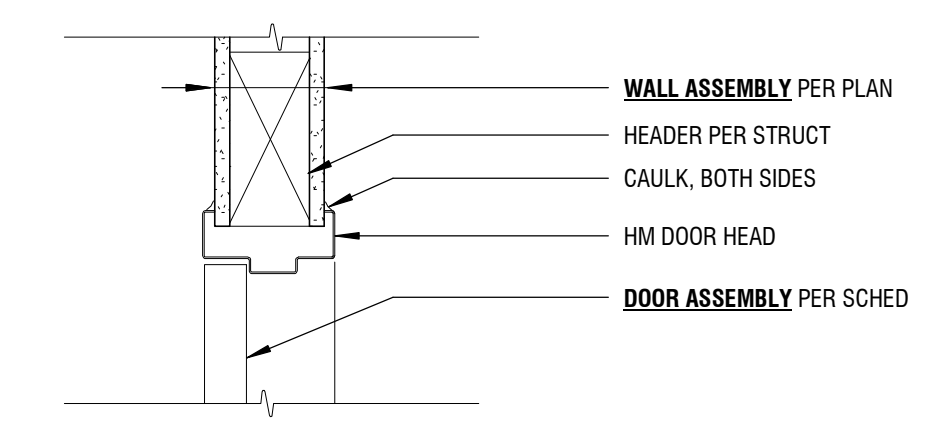
A5.0



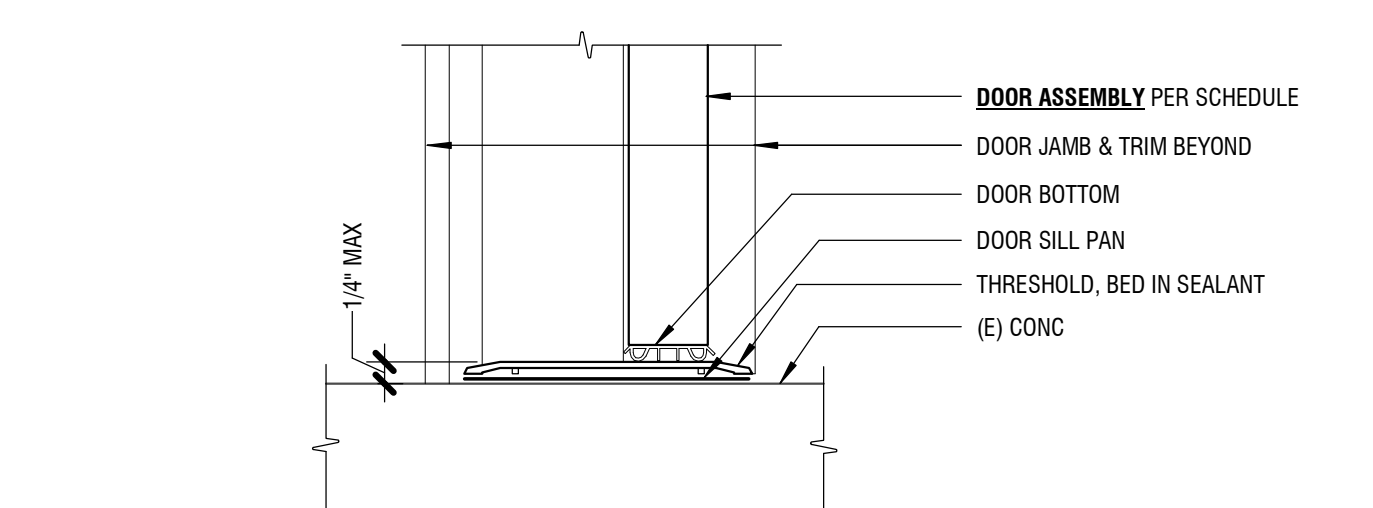
1 OUTSWING DOOR HEAD
3\"/>



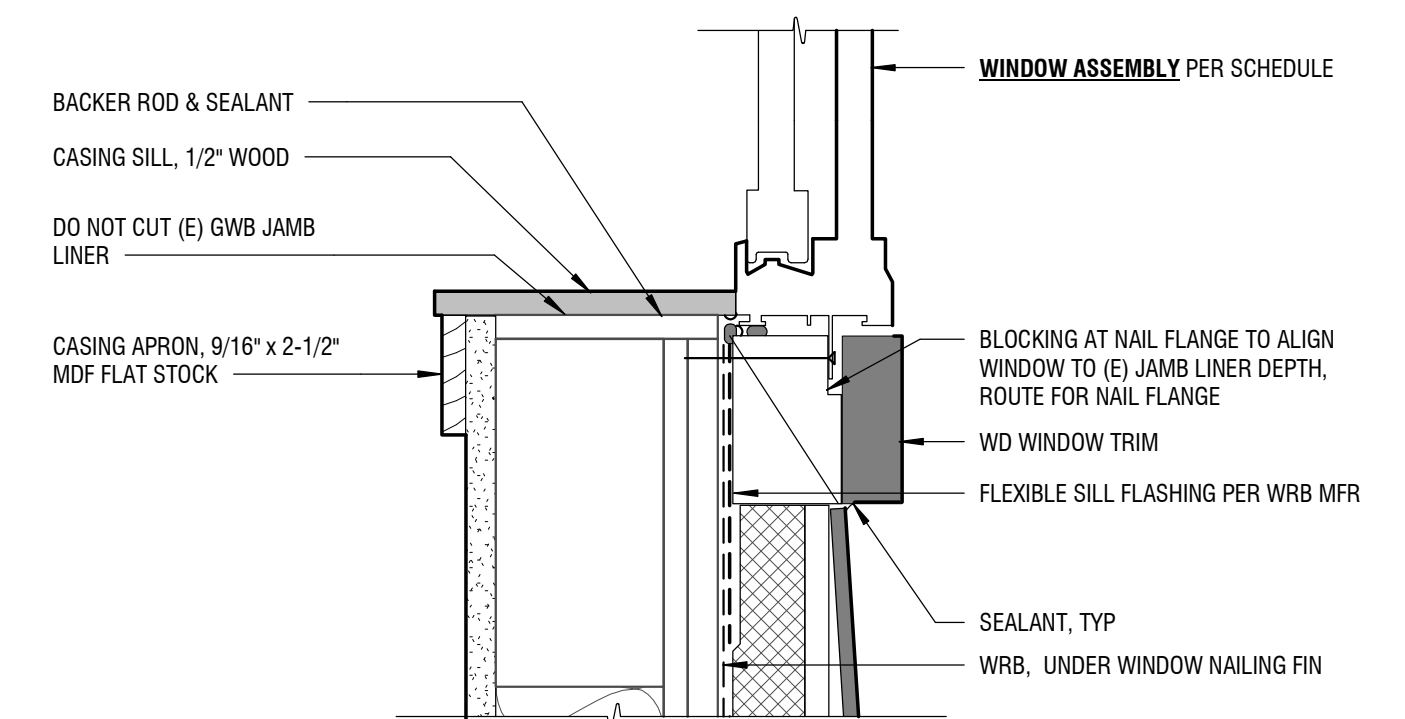
2 WINDOW HEADER
3\"/>



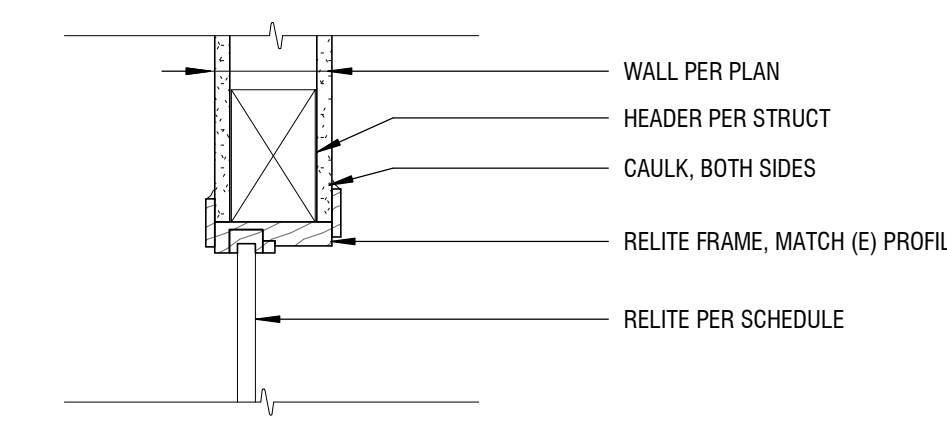
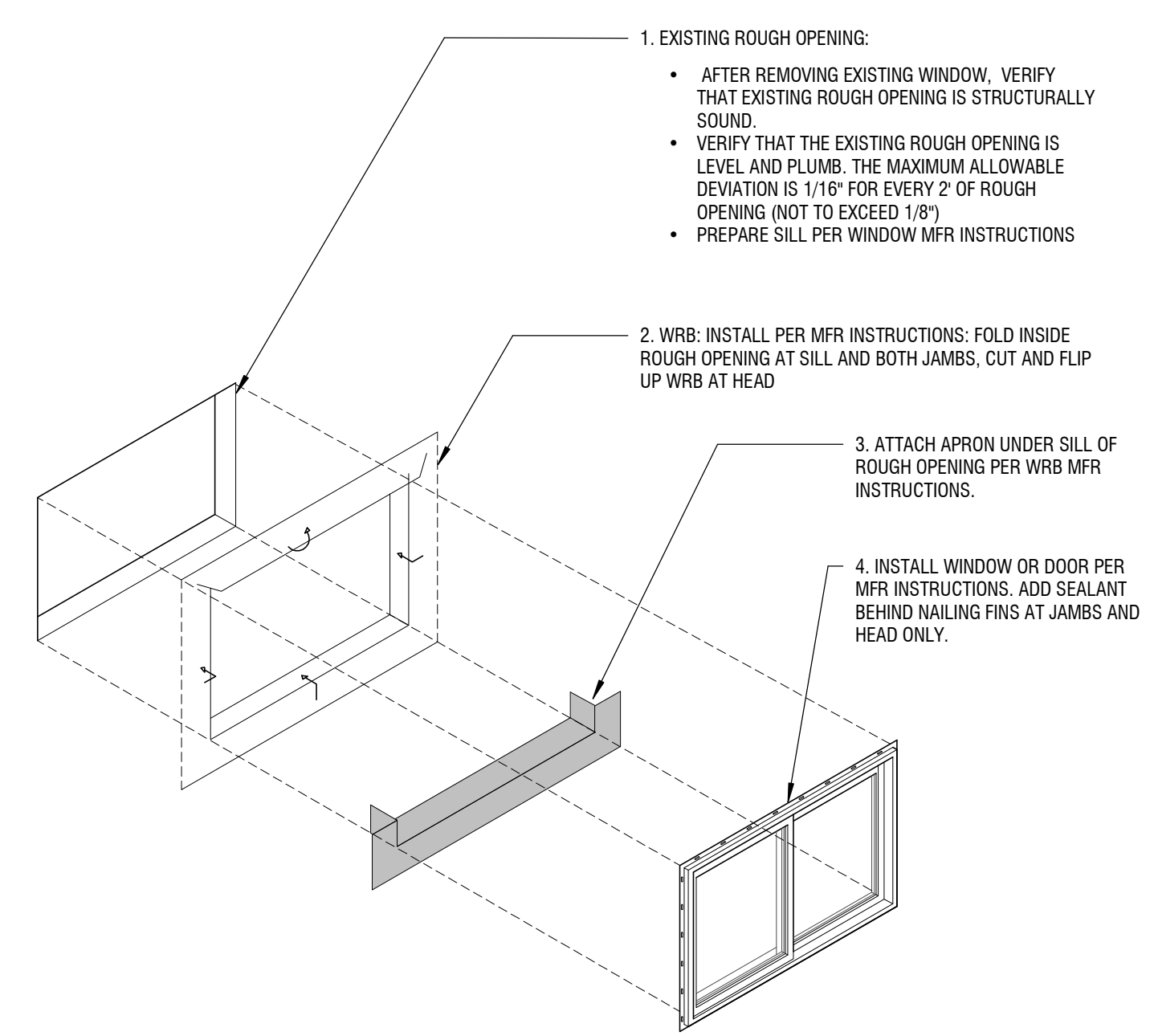
4 INTERIOR DOOR HEAD DETAIL
1 1/2\"/>



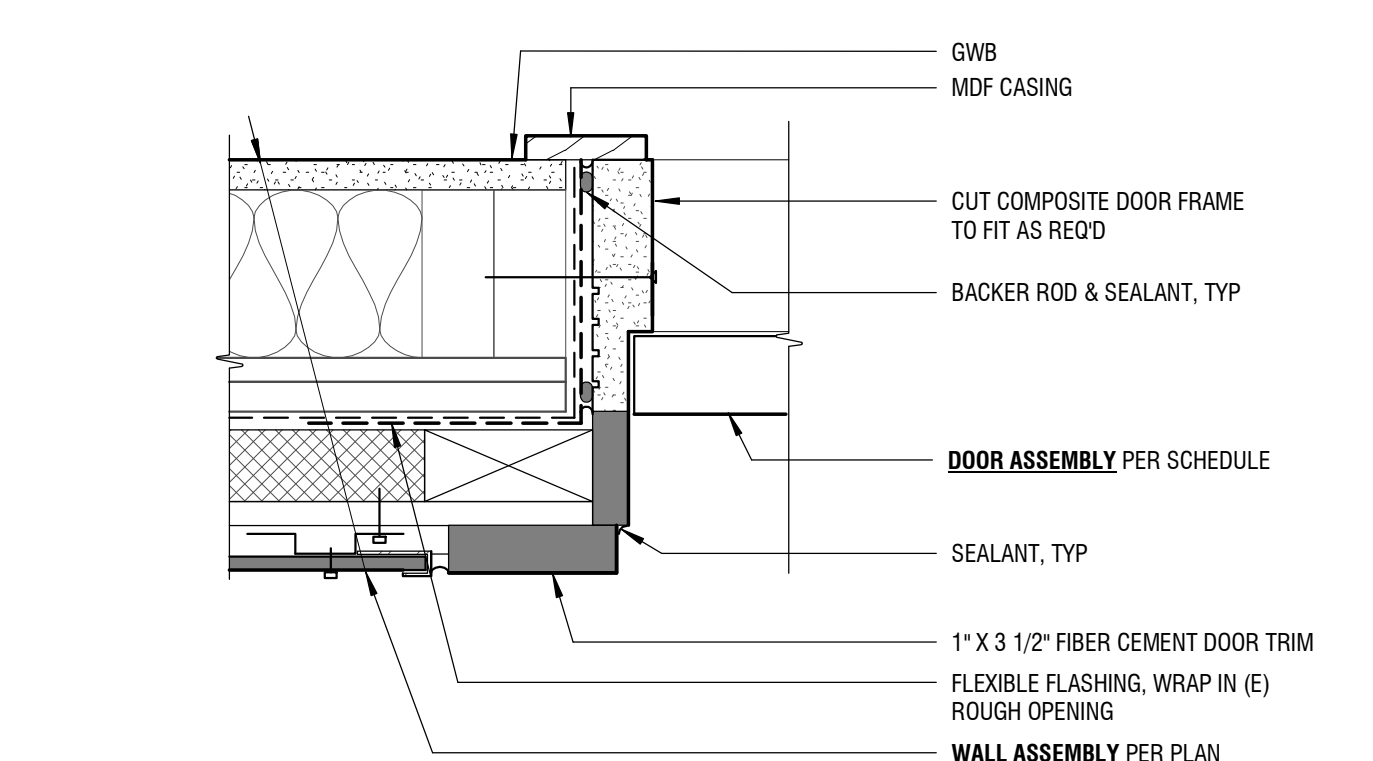
5 OUTSWING DOOR SILL
3\"/>



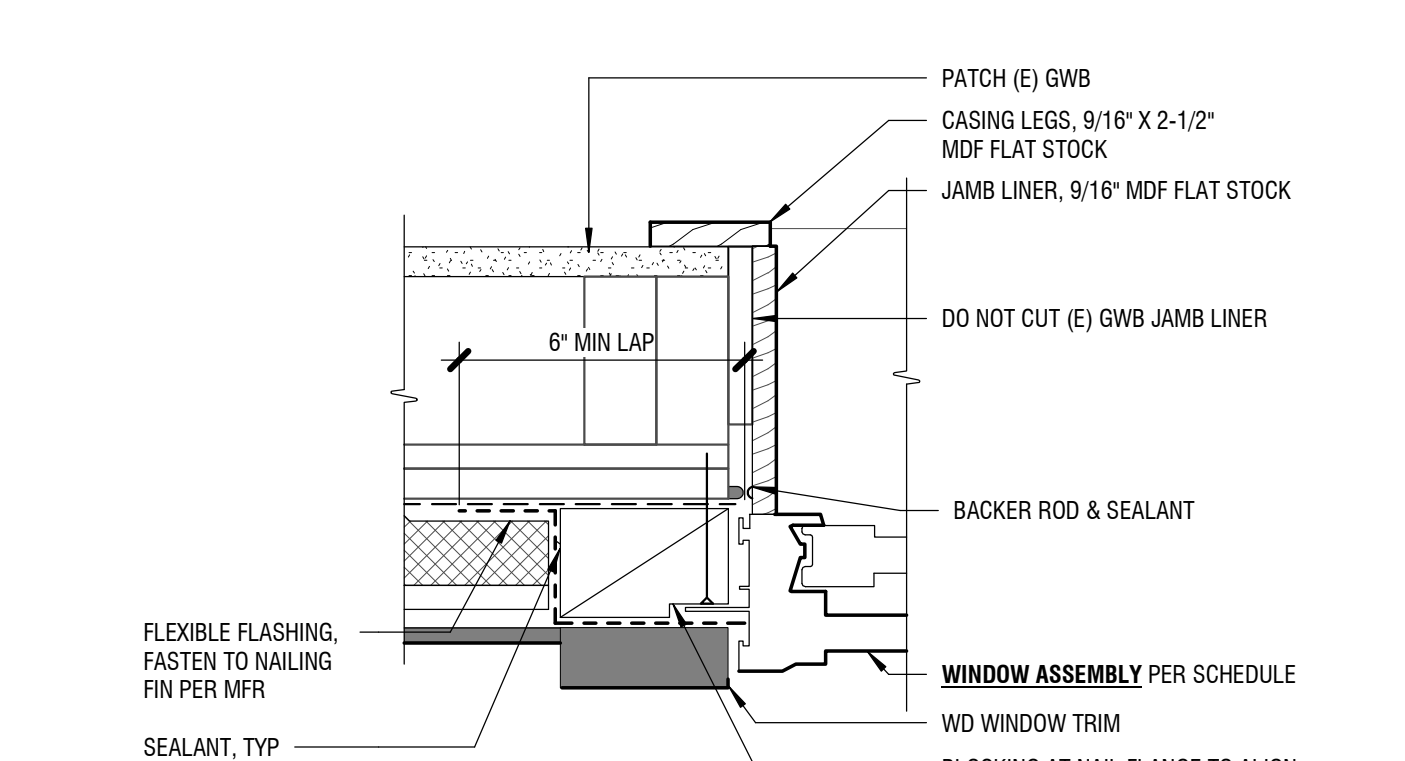
6 WINDOW SILL
3\"/>



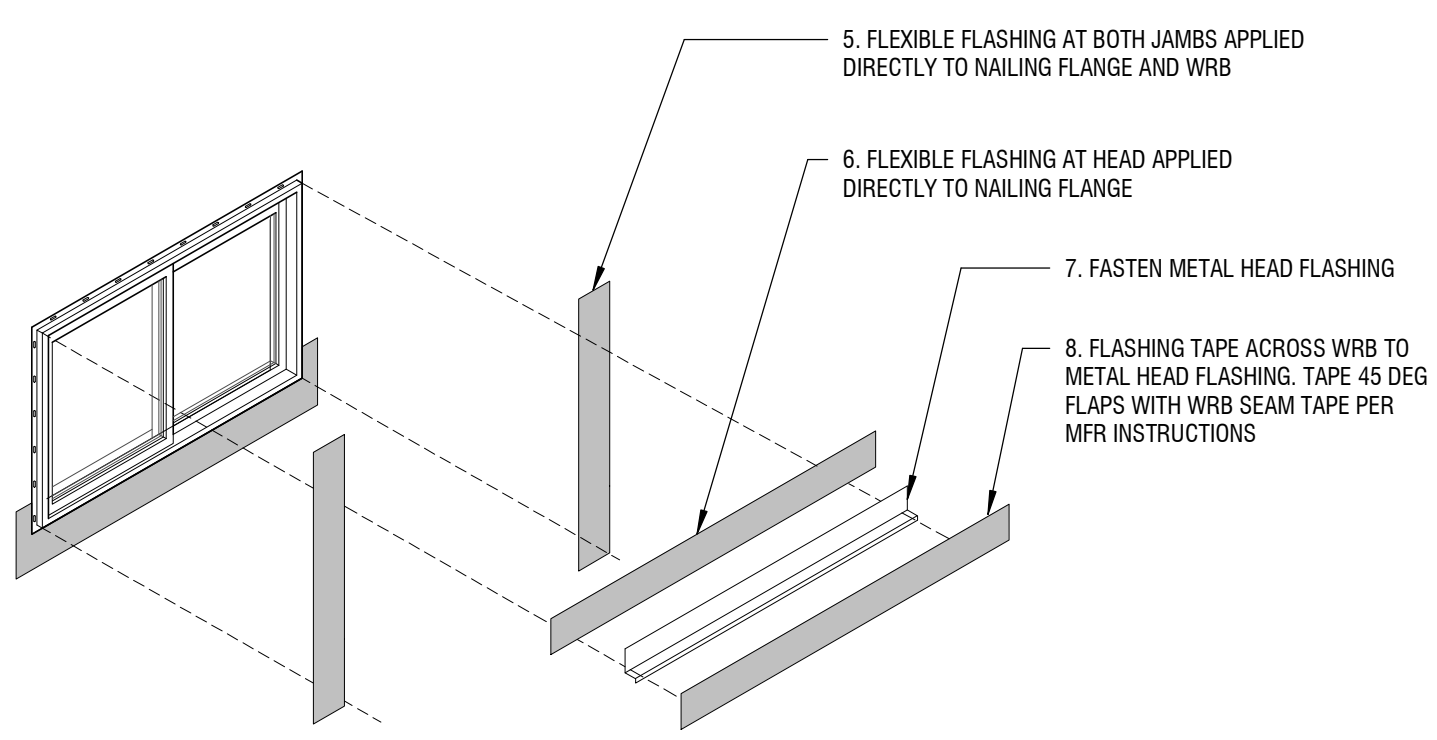
8 RELITE HEAD DETAIL
1 1/2\"/>



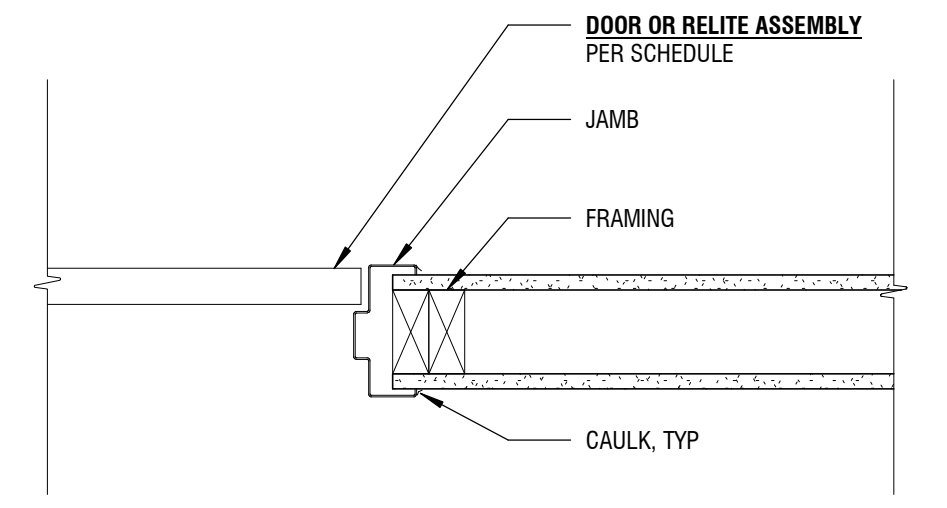
9 OUTSWING DOOR JAMB
3\"/>



10 WINDOW JAMB
3\"/>



11 WINDOW ASSEMBLY
3/8\"/>



12 INTERIOR DOOR & RELITE JAMB DETAIL
1 1/2\"/>

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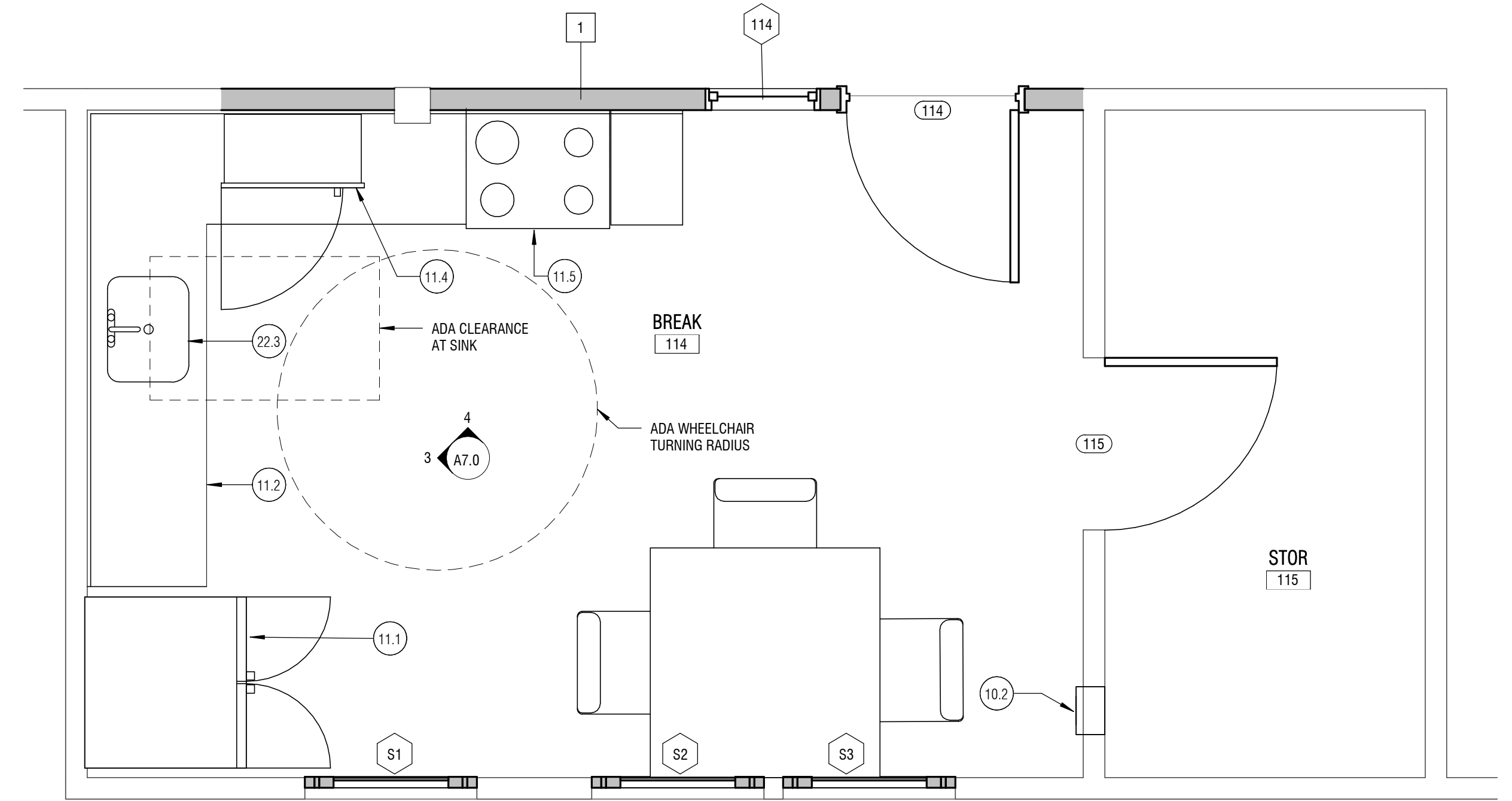
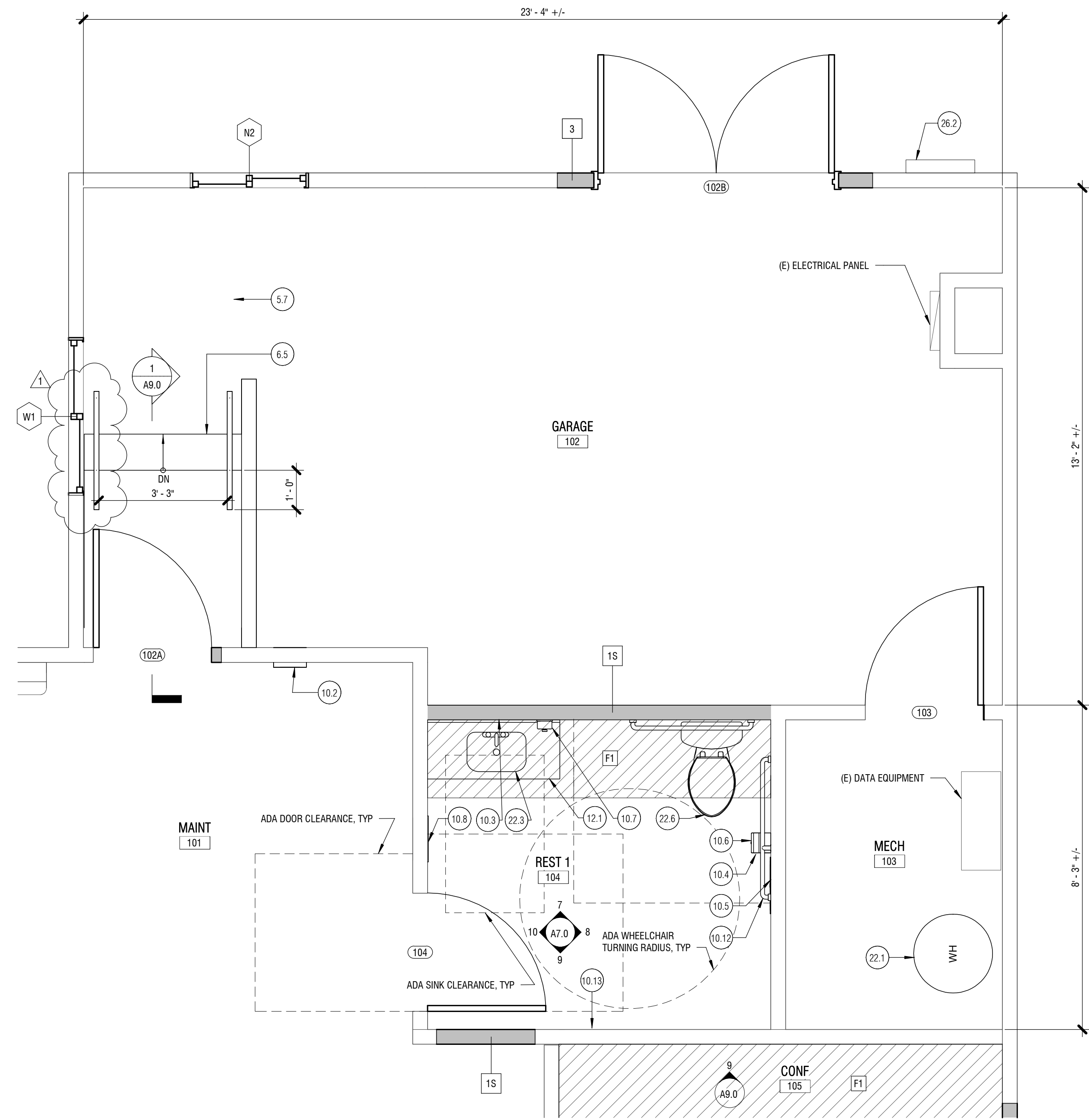
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930 18TH PLACE NE
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Revisions:
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DOOR & WINDOW
ASSEMBLIES
A5.1

9/22/2023 9:17 PM



2 ENLARGED FLOOR PLAN - BREAK ROOM
1/2" = 1'-0"

PLAN LEGEND

- (E) WALL
- WALL
- FRAMED FLOOR
- CONC FLOOR PATCH
- ACCESSIBILITY CLEARANCE

GENERAL NOTES
1. REFER TO SHEET A0.2 FOR ADA REQUIREMENTS.

MARK	KEYNOTE TEXT
5.7	STEEL PIPE HANDRAIL, WALL MOUNTED
6.5	WOOD STAIR ASSEMBLY, NON-SLIP SURFACE
10.2	FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER
10.3	MIRROR
10.4	TOILET PAPER DISPENSER
10.5	RECESSED SEAT COVER DISPENSER
10.6	RECESSED SANITARY NAPKIN WASTE RECEPTACLE
10.7	SOAP DISPENSER
10.8	RECESSED COMBINATION PAPER TOWEL/WASTE RECEPTACLE
10.12	GRAB BARS
10.13	HOOK
11.1	REFRIGERATOR/FREEZER, FOIO
11.2	ADA COMPLIANT DISHWASHER, FCIC
11.4	MICROWAVE, FOIO
11.5	34" HEIGHT ADA COMPLIANT OVEN RANGE, INSTALL FOR FUTURE POWER HOOK-UP, FCIC
12.1	COUNTERTOP
22.1	WATER HEATER PER MECH
22.3	SINK PER MECH
22.6	TOILET PER MECH
26.2	EV CHARGING STATION

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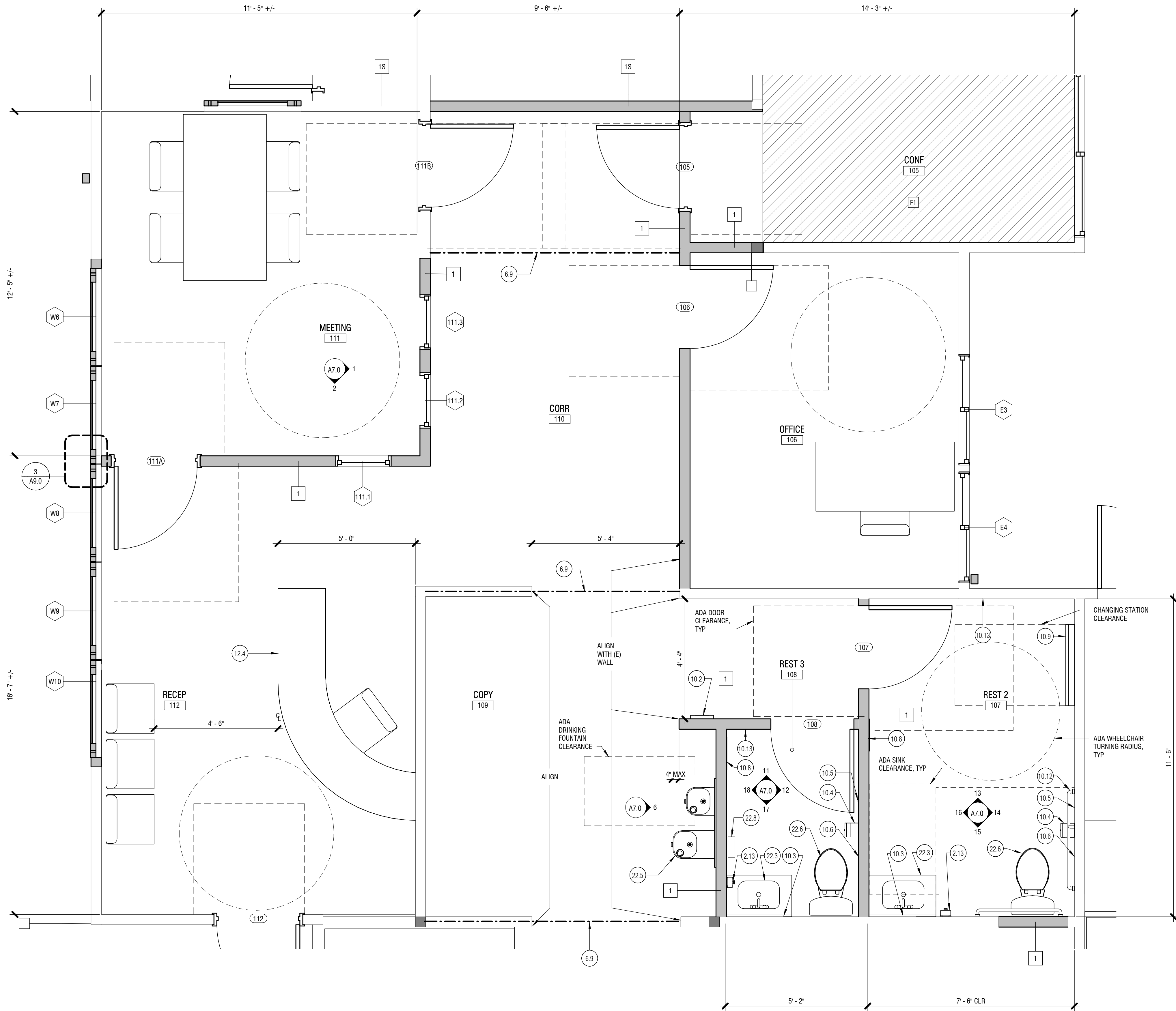
BID SET

930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: KL
Checked by: LJ
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Revisions:	No.	Date	Remarks
1	9/22/2023		Revision 1

ENLARGED
PLANS
A6.0



- PLAN LEGEND**
- (E) WALL
 - WALL
 - FRAMED FLOOR
 - CONC FLOOR PATCH
 - ACCESSIBILITY CLEARANCE

GENERAL NOTES
1. REFER TO SHEET A0.2 FOR ADA REQUIREMENTS.

KEYNOTE LEGEND

MARK	KEYNOTE TEXT
2.13	DEMO (E) DOOR INCLUDING (E) DOOR FRAME, (E) DOOR HARDWARE, (E) DOOR THRESHOLD, AND (E) INTERIOR TRIM
6.9	BEAM ABOVE CEILING PER STRUCT
10.2	FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER
10.3	MIRROR
10.4	TOILET PAPER DISPENSER
10.5	RECESSED SEAT COVER DISPENSER
10.6	RECESSED SANITARY NAPKIN WASTE RECEPTACLE
10.8	RECESSED COMBINATION PAPER TOWEL/WASTE RECEPTACLE
10.9	BABY CHANGING TABLE
10.12	GRAB BARS
10.13	HOOK
12.4	RECEPTION DESK, FOIO
22.3	SINK PER MECH
22.5	DRINKING FOUNTAIN PER MECH
22.6	TOILET PER MECH
22.8	FLOOR CLEANOUT, PER MECH

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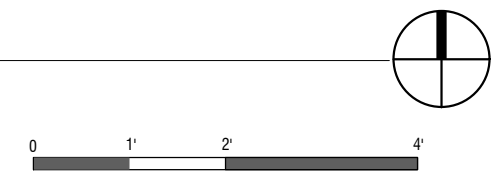
930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: KL
Checked: LJ
Date: 8/17/2023
Scale: As indicated
Revisions:
No. Date Remarks

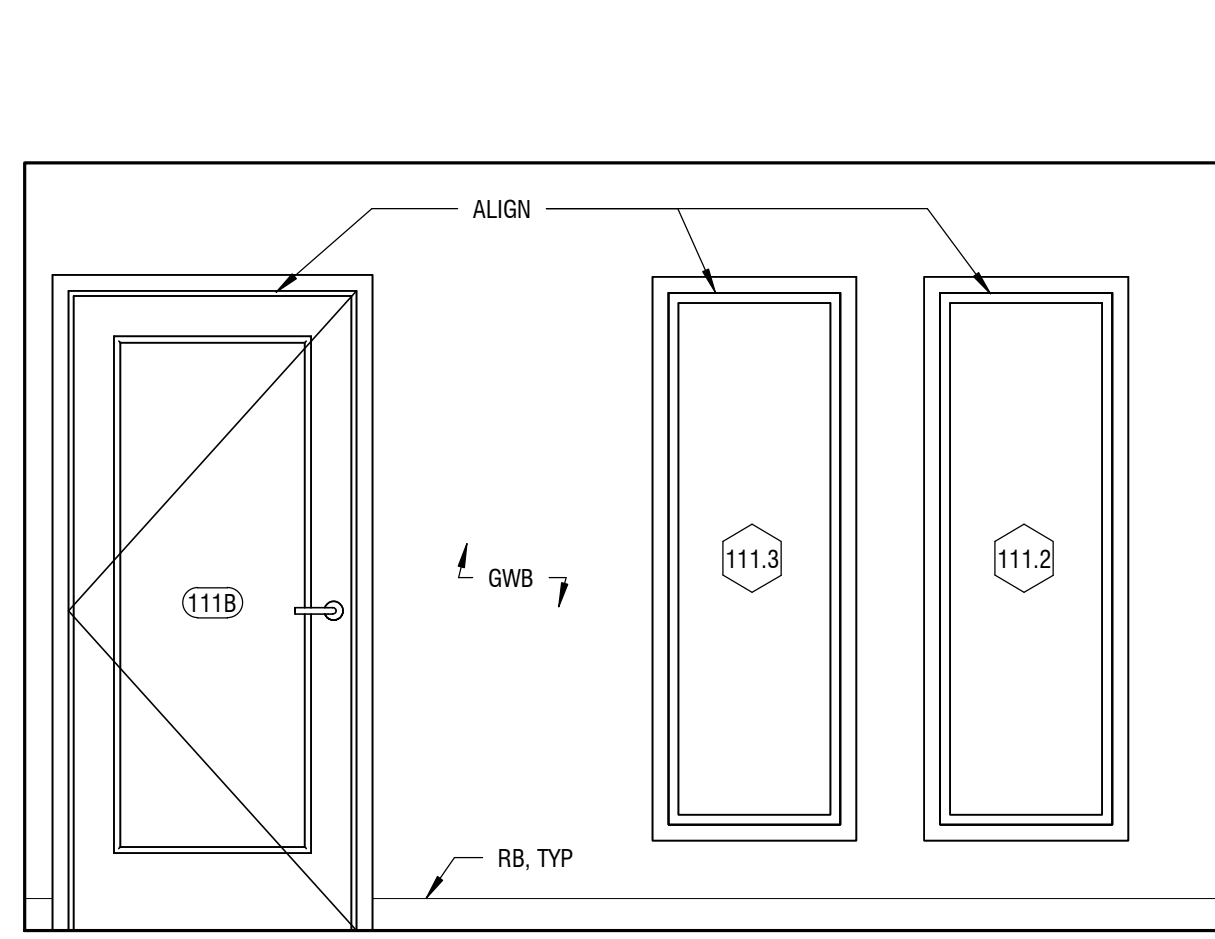
1 ENLARGED FLOOR PLAN - CENTRAL
1/2" = 1'-0"

ENLARGED PLAN
A6.1

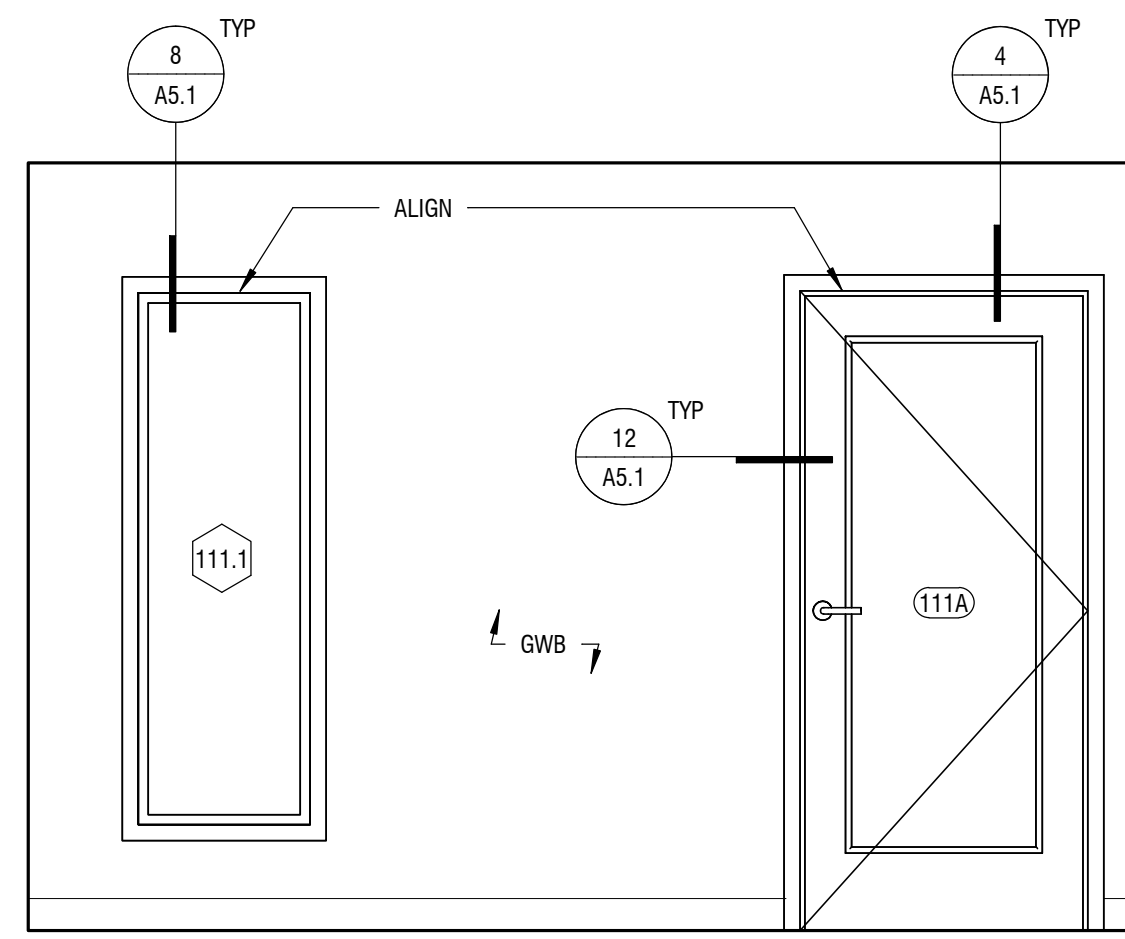
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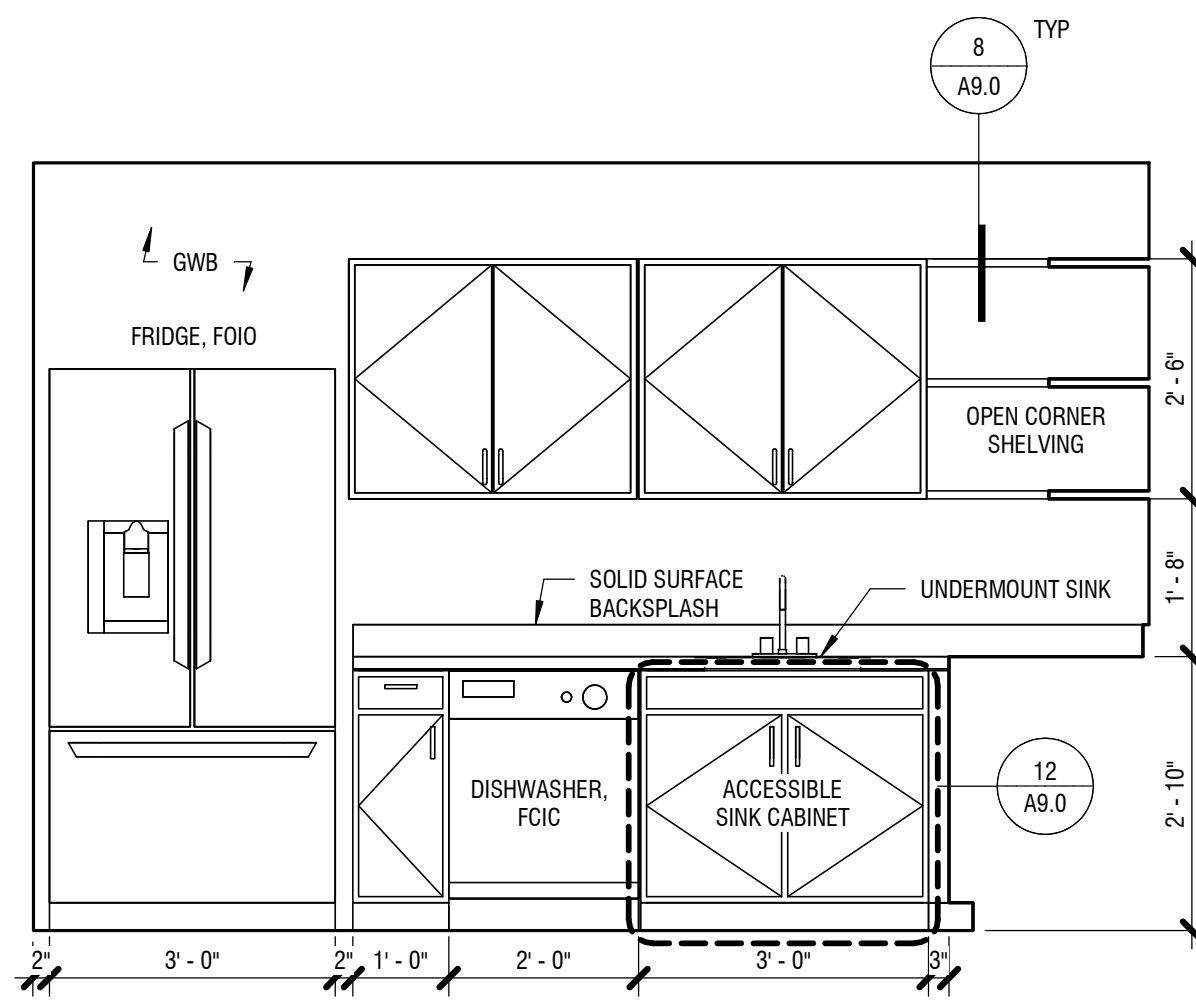
GENERAL NOTES
1. REFER TO SHEET A0.2 FOR ADA REQUIREMENTS.



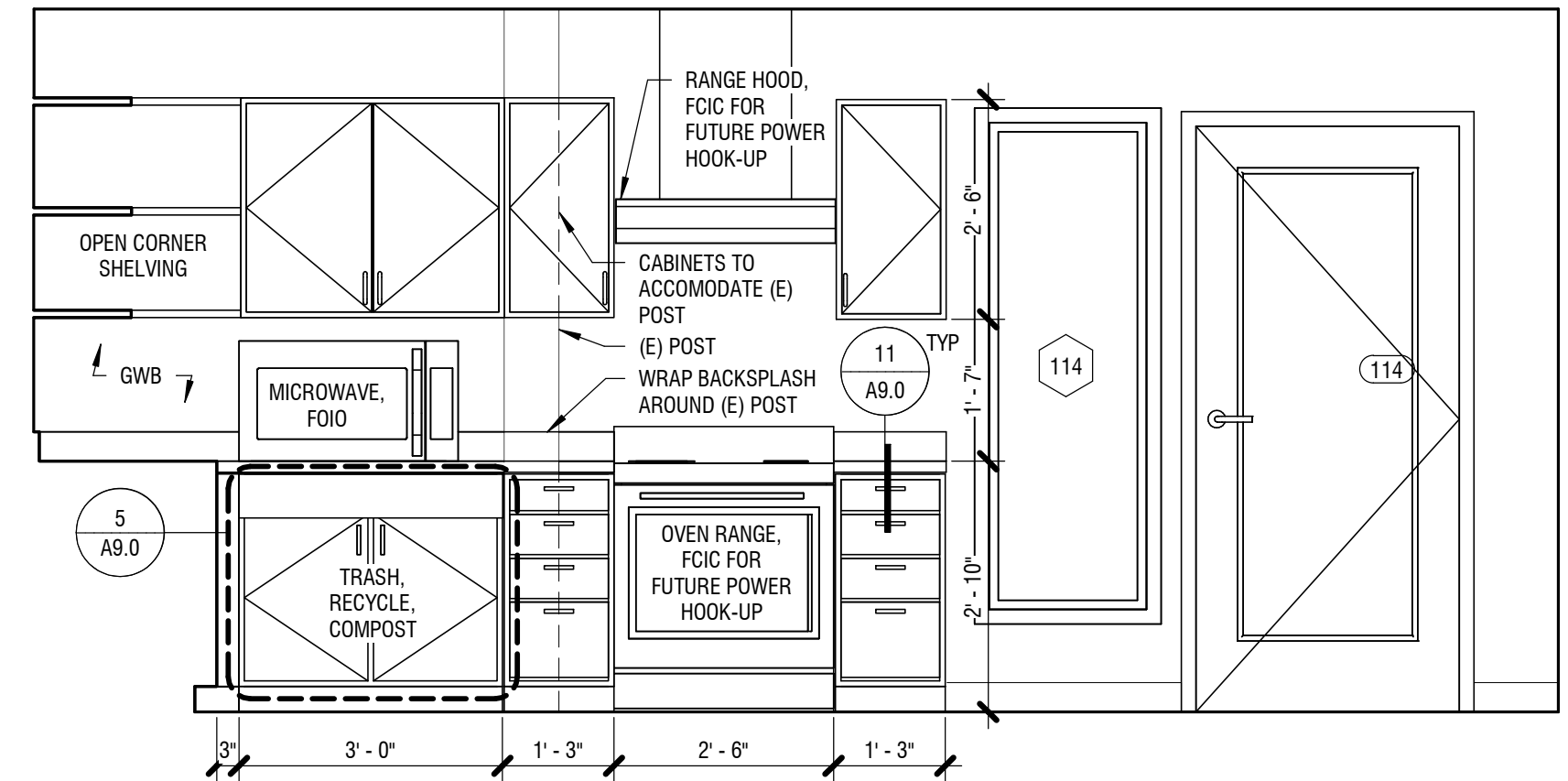
1 111 - MEETING ROOM EAST
1/2" = 1'-0"



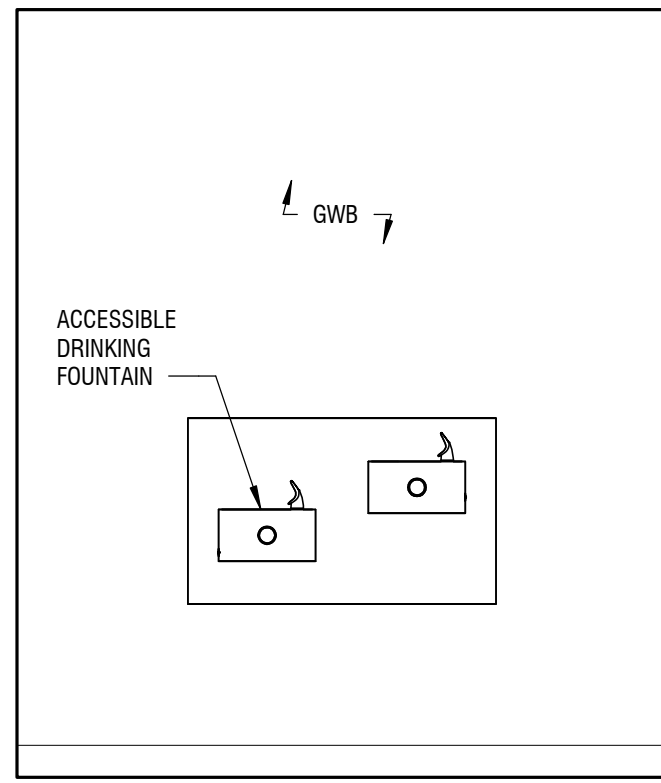
2 111 - MEETING ROOM SOUTH
1/2" = 1'-0"



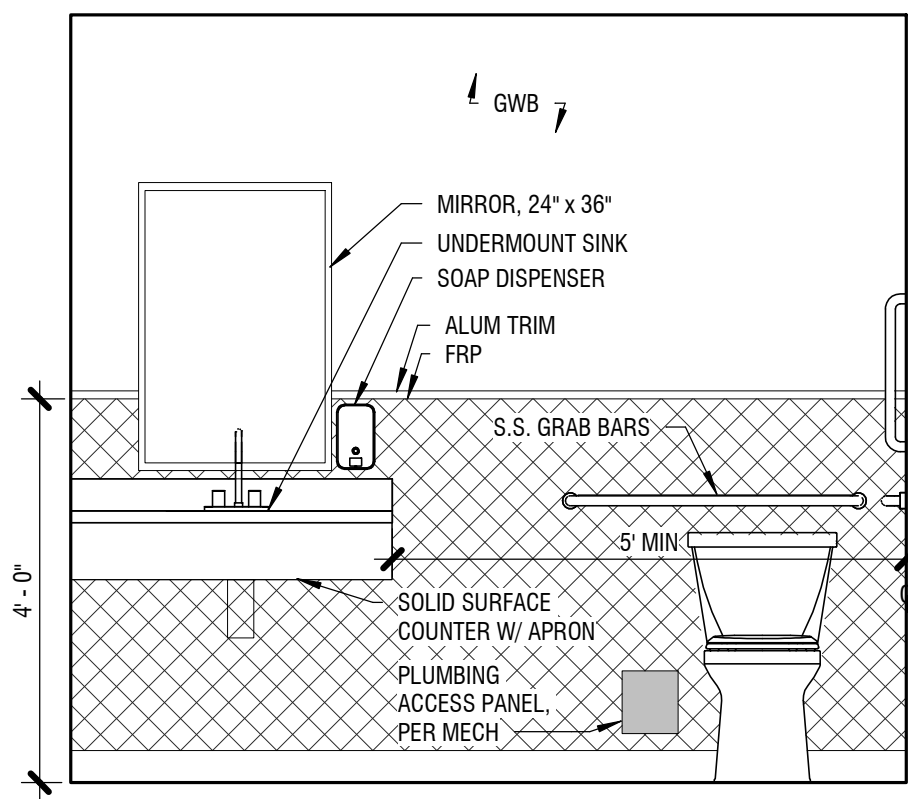
3 114 - BREAK ROOM WEST
1/2" = 1'-0"



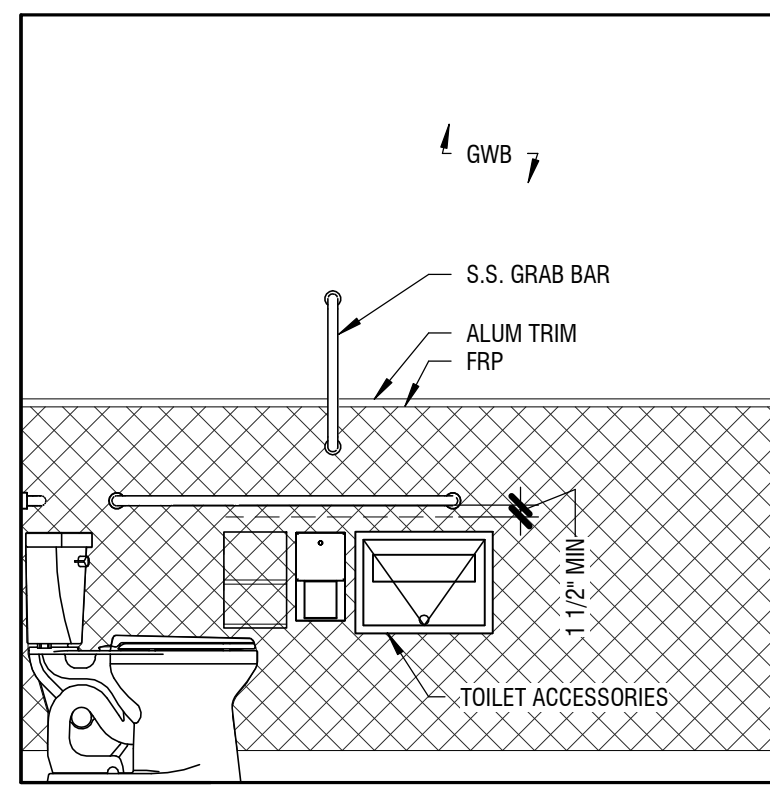
4 114 - BREAK ROOM NORTH
1/2" = 1'-0"



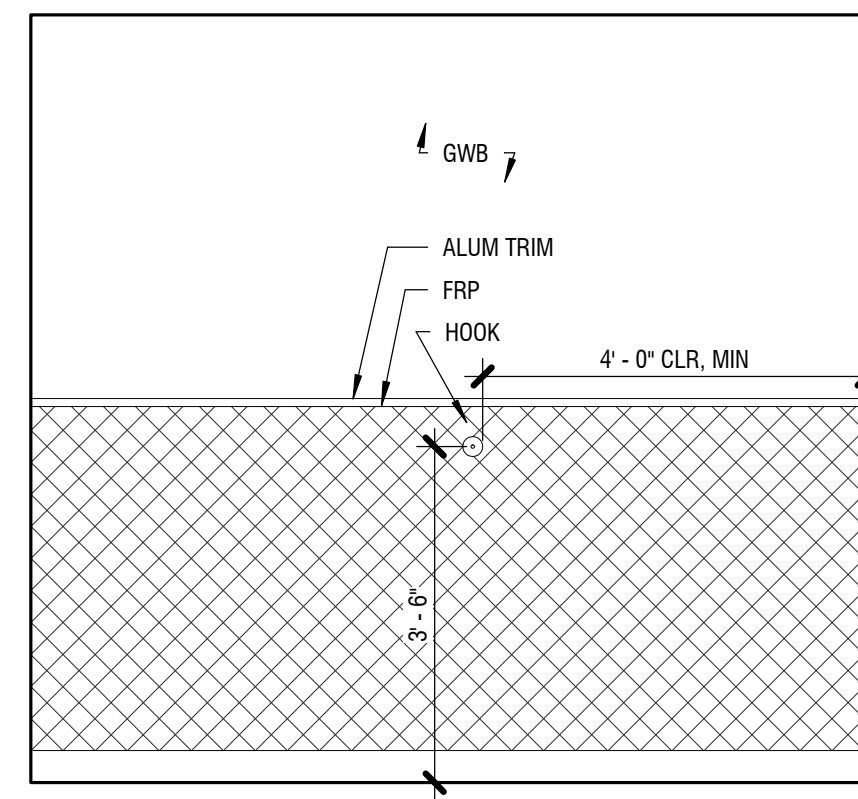
6 110 - DRINKING FOUNTAIN
1/2" = 1'-0"



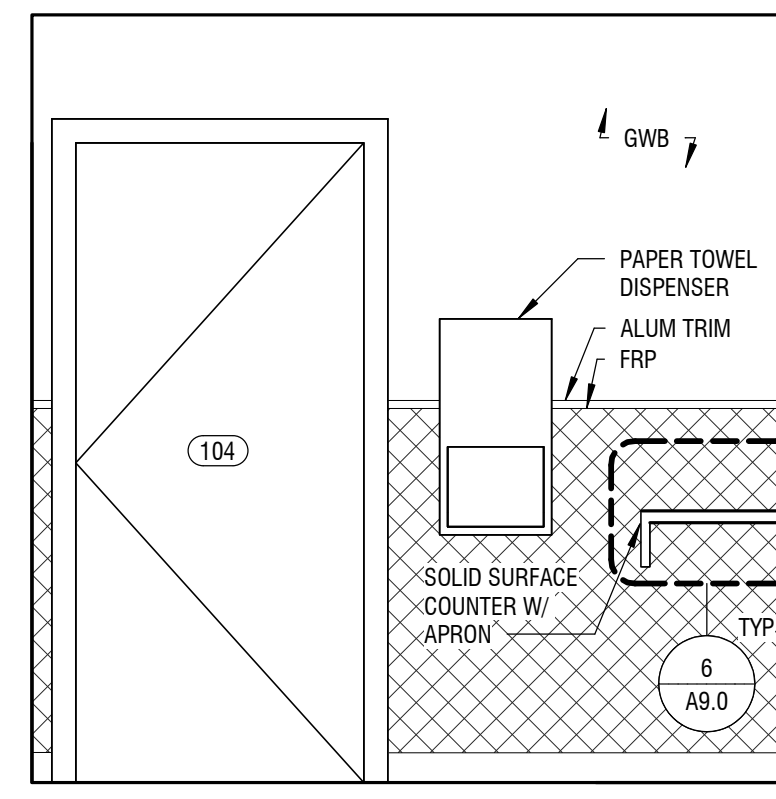
7 104 - ACCESSIBLE REST. 1 NORTH
1/2" = 1'-0"



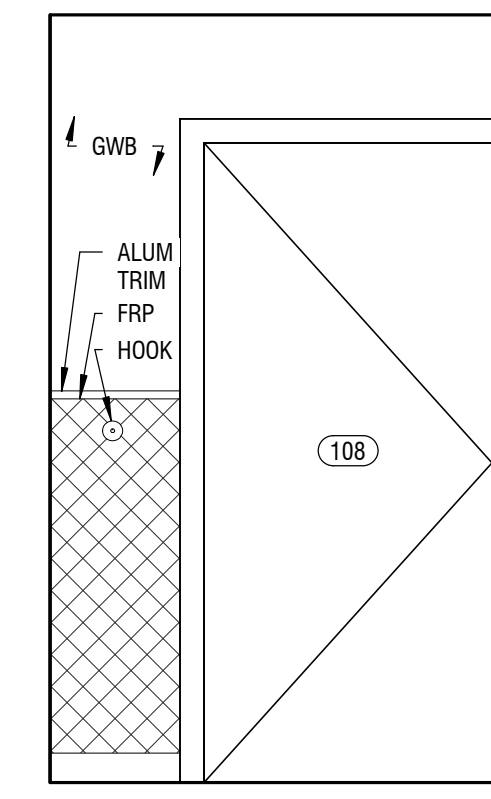
8 104 - ACCESSIBLE REST. 1 EAST
1/2" = 1'-0"



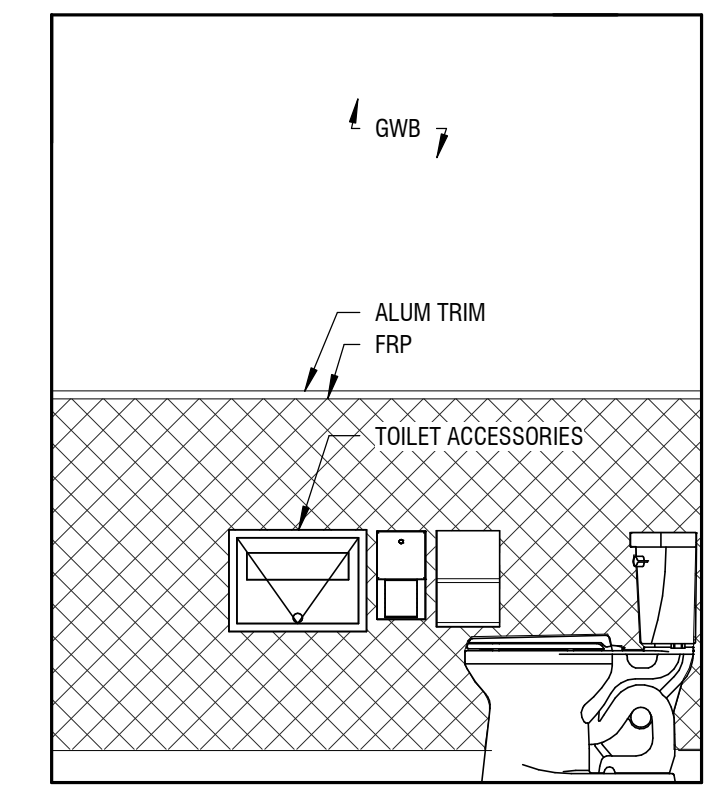
9 104 - ACCESSIBLE RESTROOM 1 SOUTH
1/2" = 1'-0"



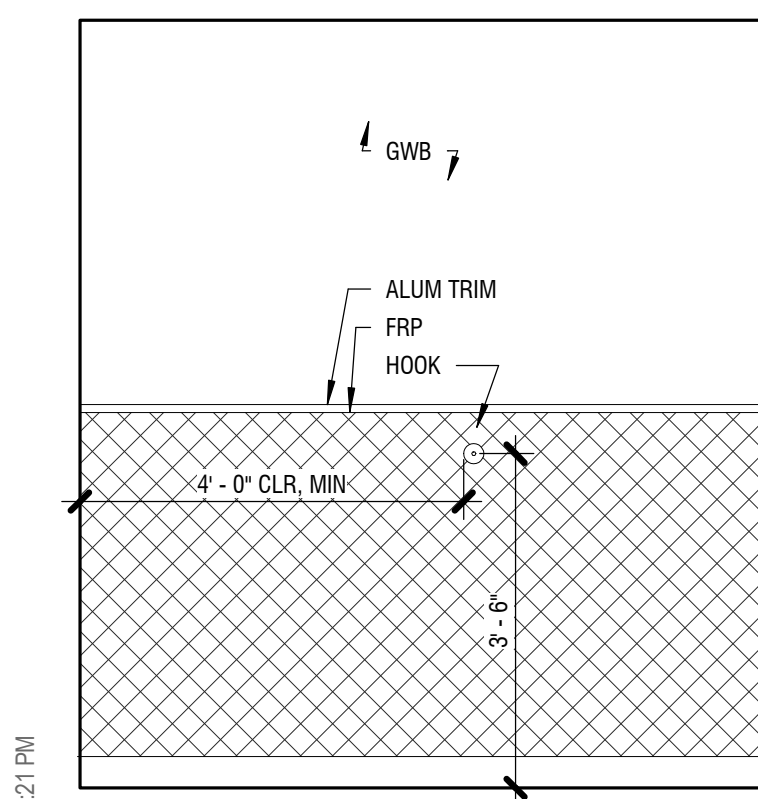
10 104 - ACCESSIBLE RESTROOM 1 WEST
1/2" = 1'-0"



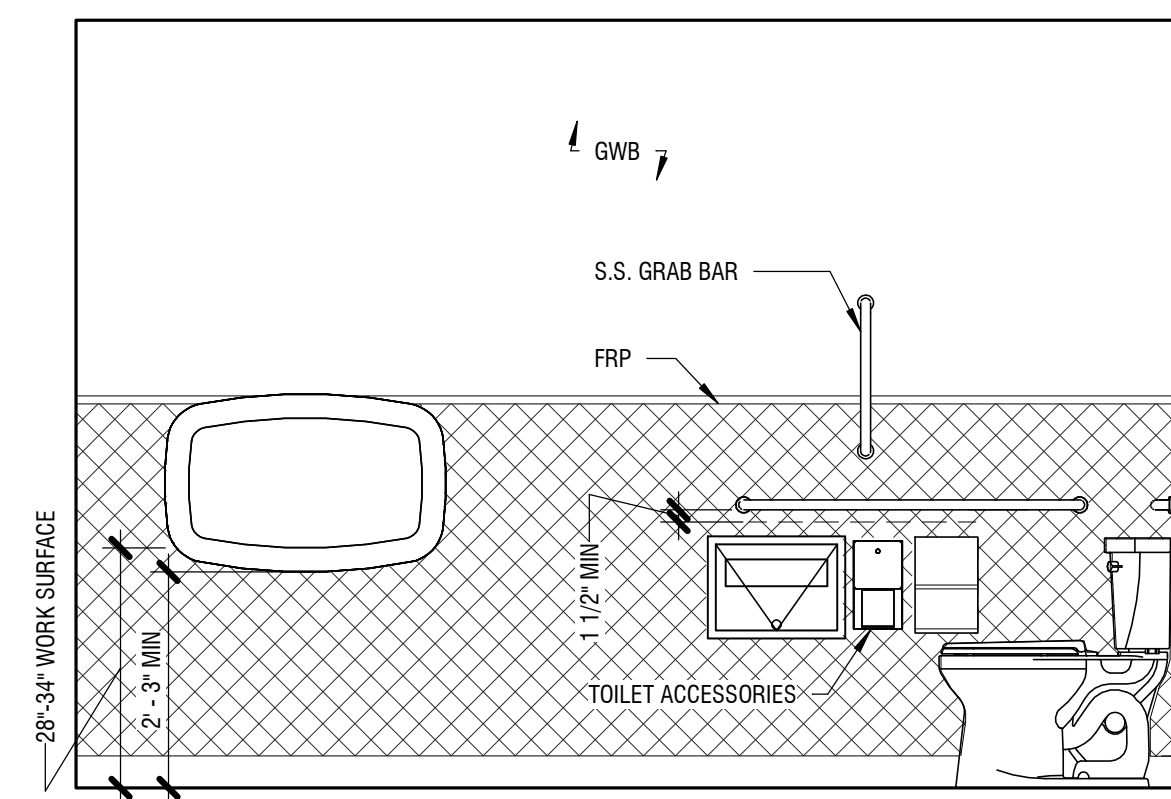
11 108 - REST. 3 NORTH
1/2" = 1'-0"



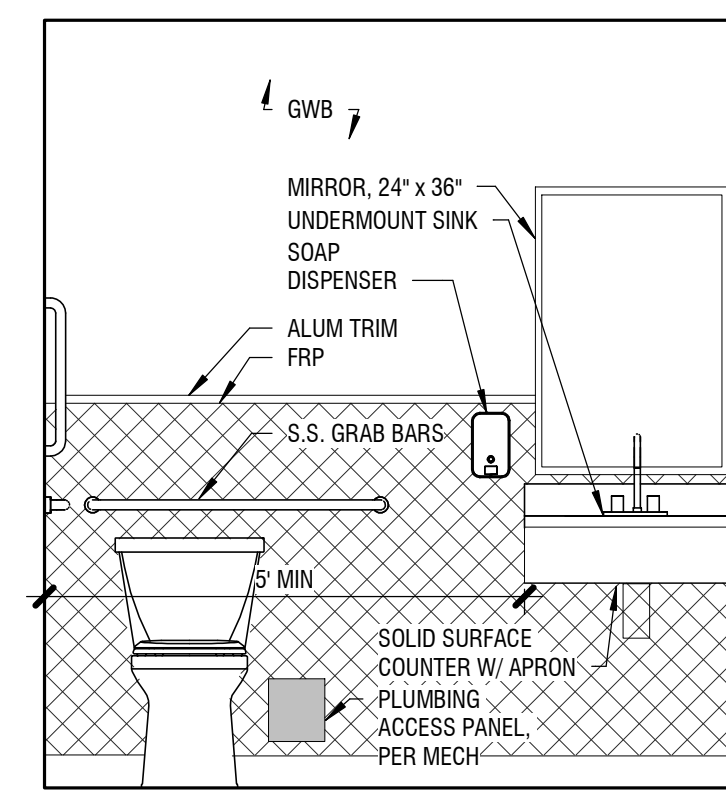
12 108 - REST. 3 EAST
1/2" = 1'-0"



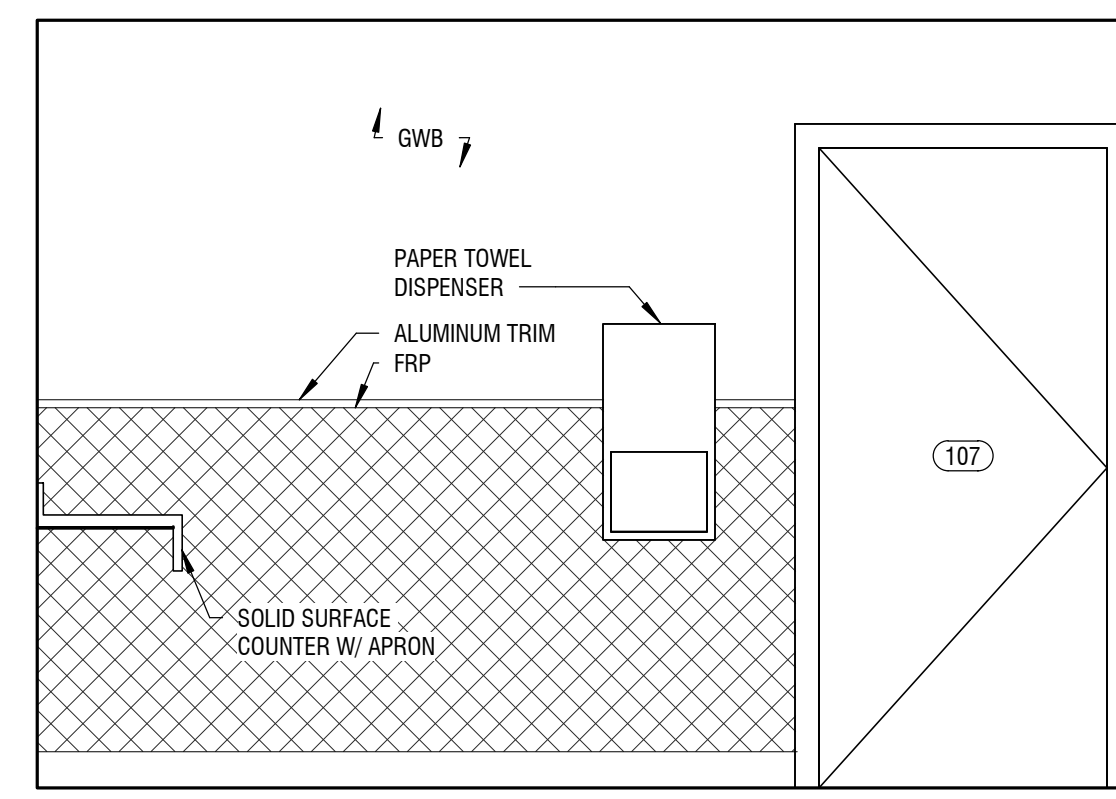
13 107 - ACCESSIBLE REST. 2 NORTH
1/2" = 1'-0"



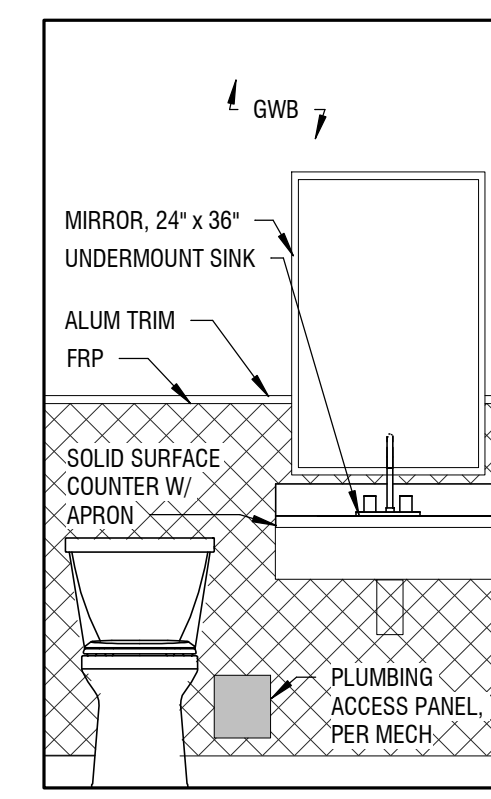
14 107 - ACCESSIBLE REST. 2 EAST
1/2" = 1'-0"



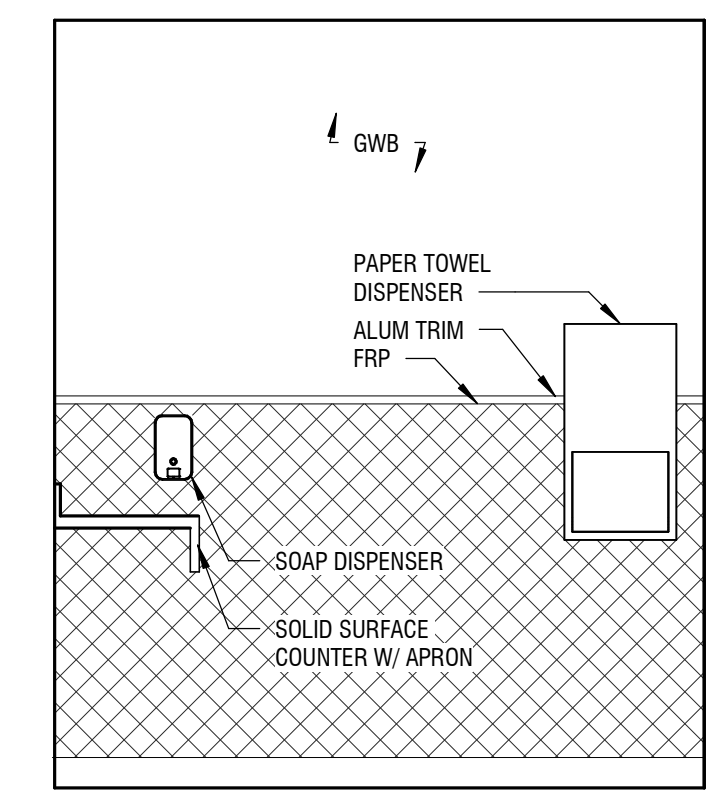
15 107 - ACCESSIBLE REST. 2 SOUTH
1/2" = 1'-0"



16 107 - ACCESSIBLE REST. 2 WEST
1/2" = 1'-0"



17 108 - REST. 3 SOUTH
1/2" = 1'-0"



18 108 - REST. 3 WEST
1/2" = 1'-0"

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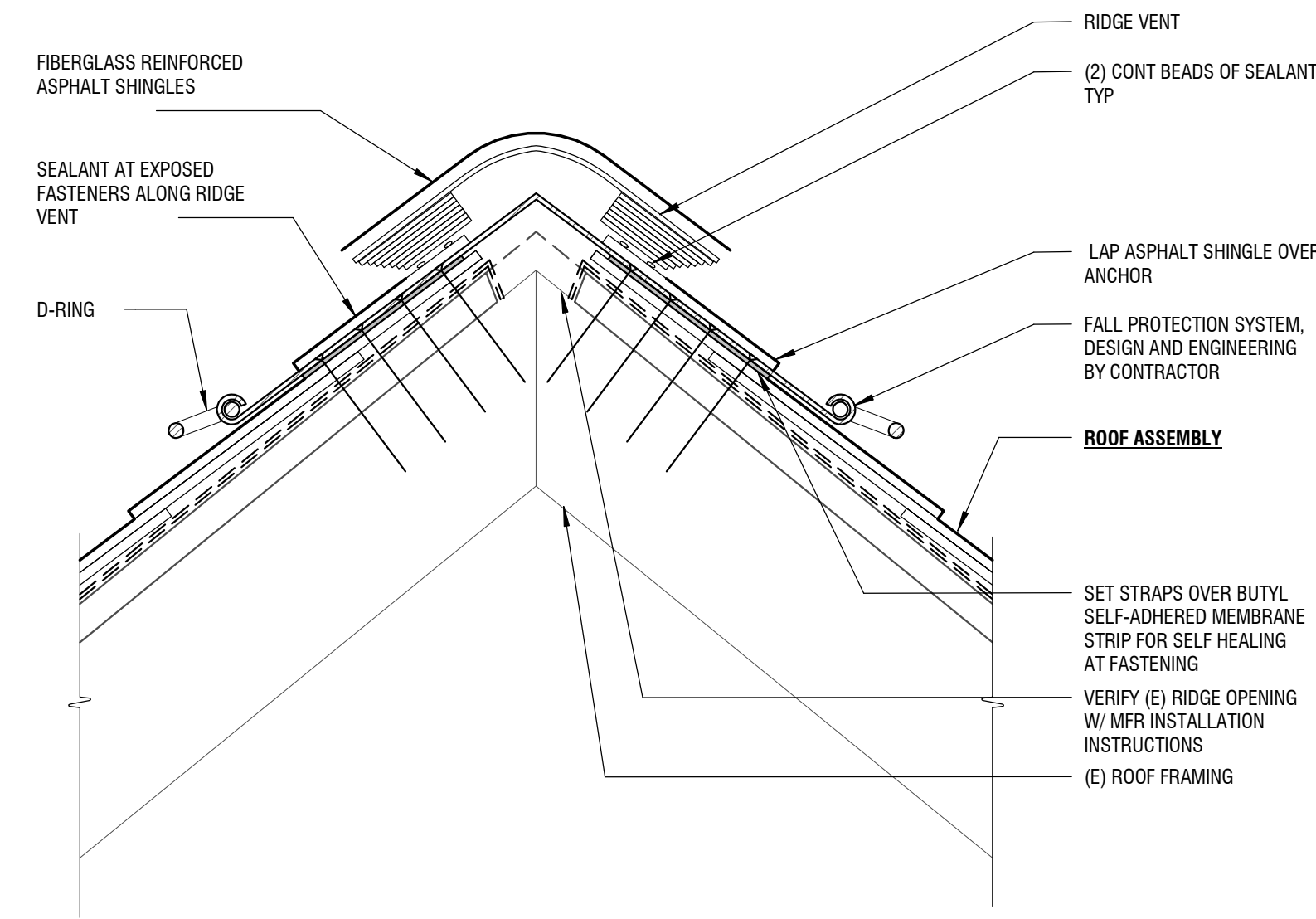
930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: KL
Checked: LJ
Date: 8/17/2023
Scale: 1/2" = 1'-0"

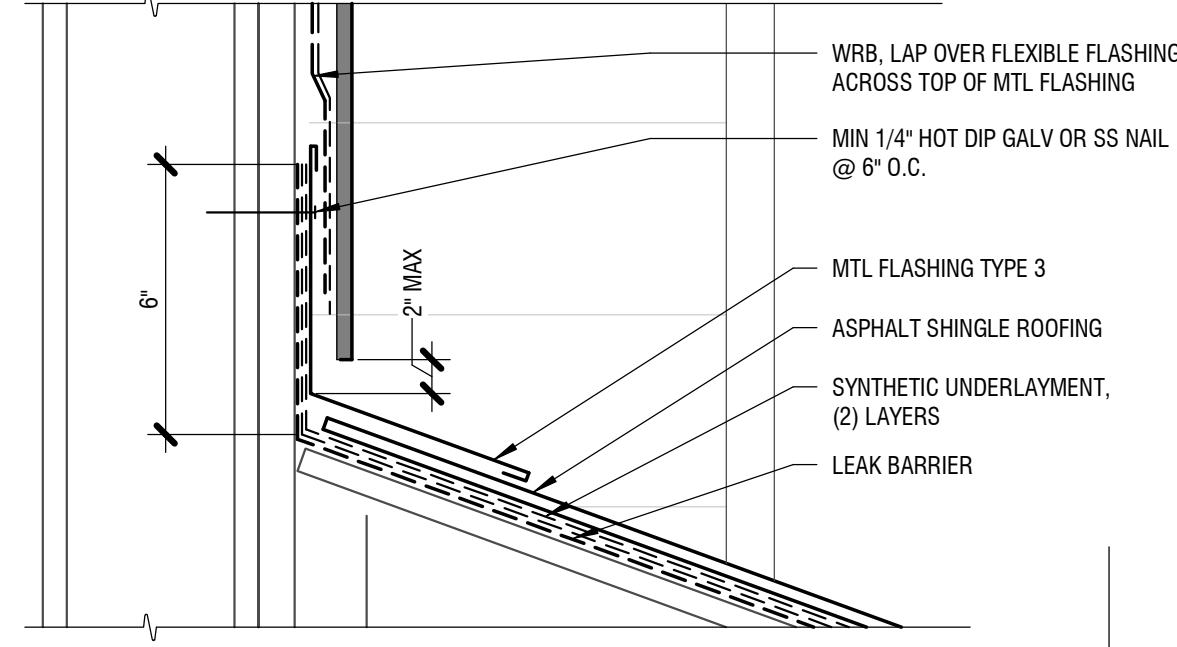
Revisions:
No. Date Remarks

INTERIOR
ELEVATIONS
A7.0

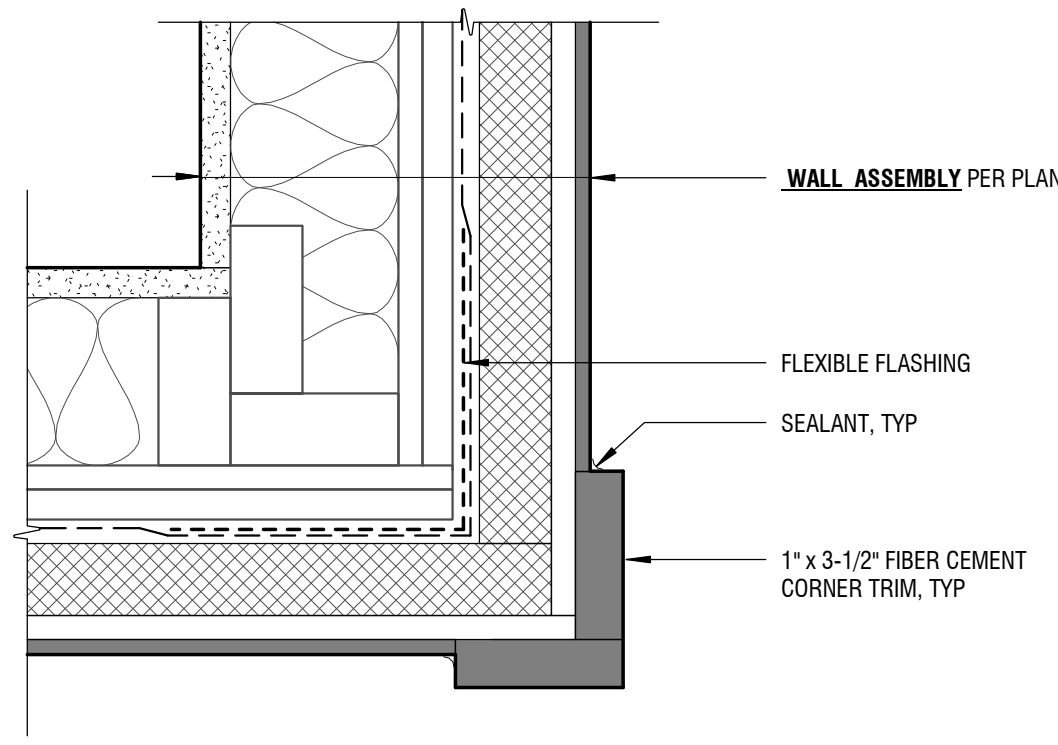
9/22/2023 1:09:21 PM



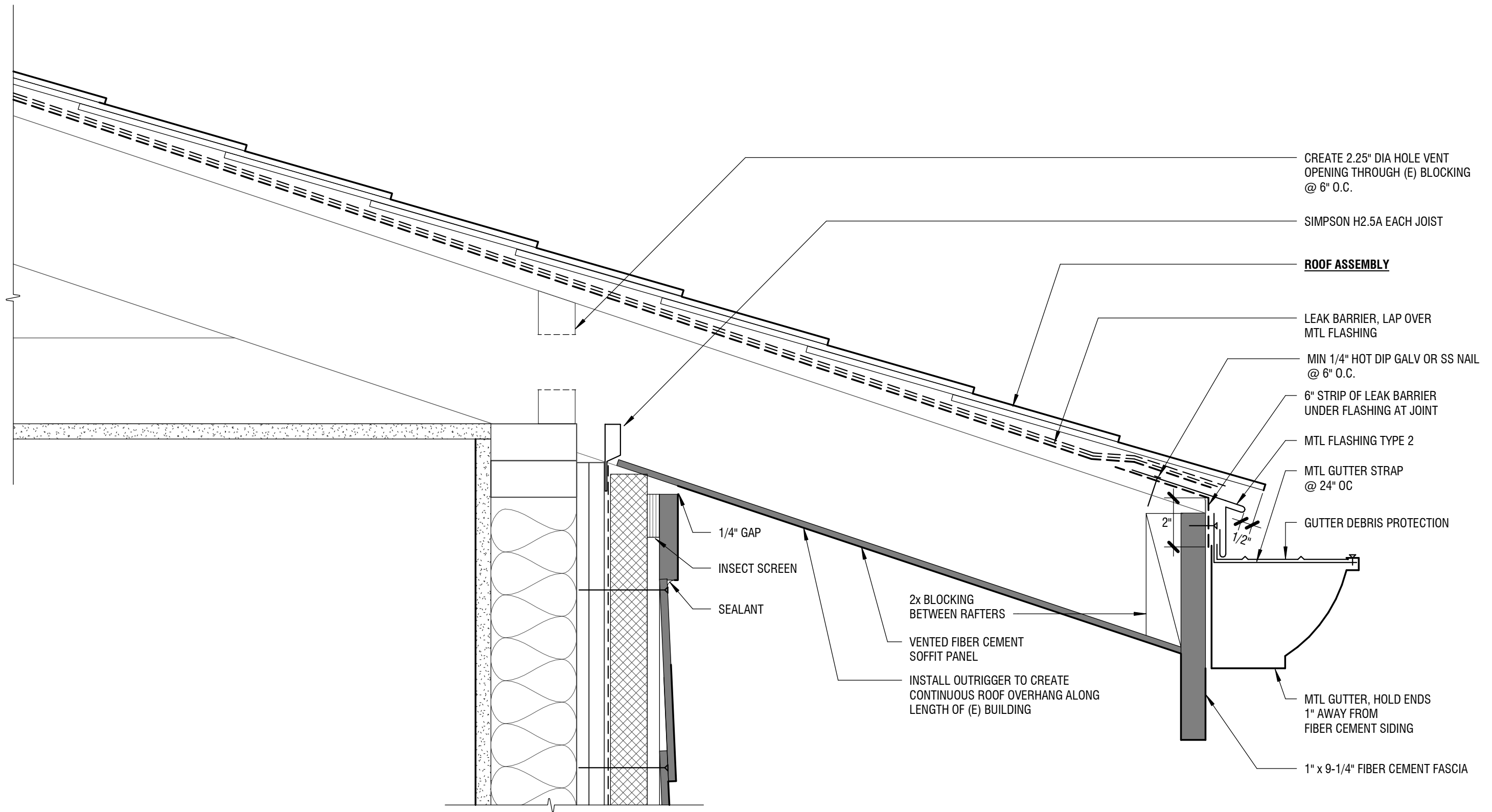
1 RIDGE VENT & FALL PROTECTION SYSTEM
3" = 1'-0"



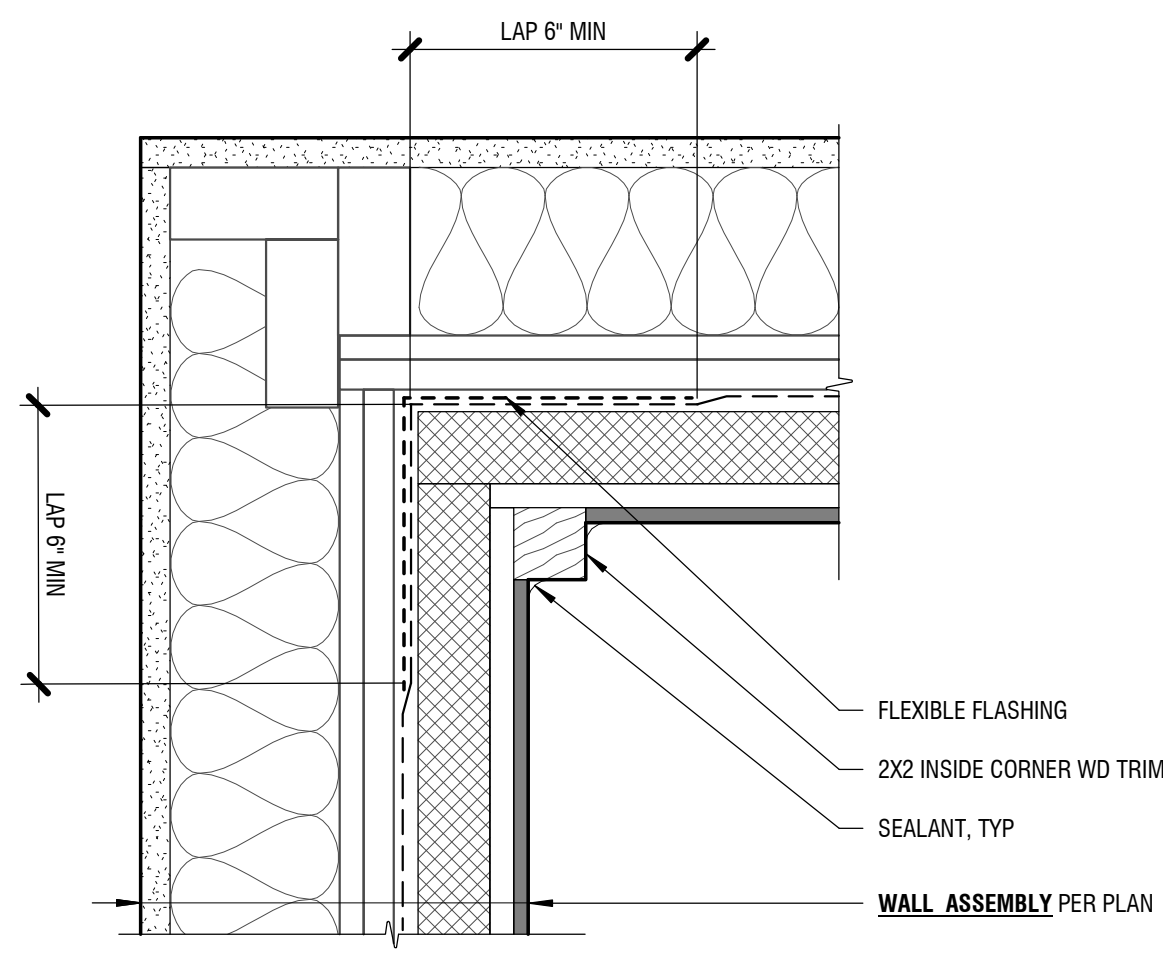
2 GABLE FACE TO ROOF TRANSITION
3" = 1'-0"



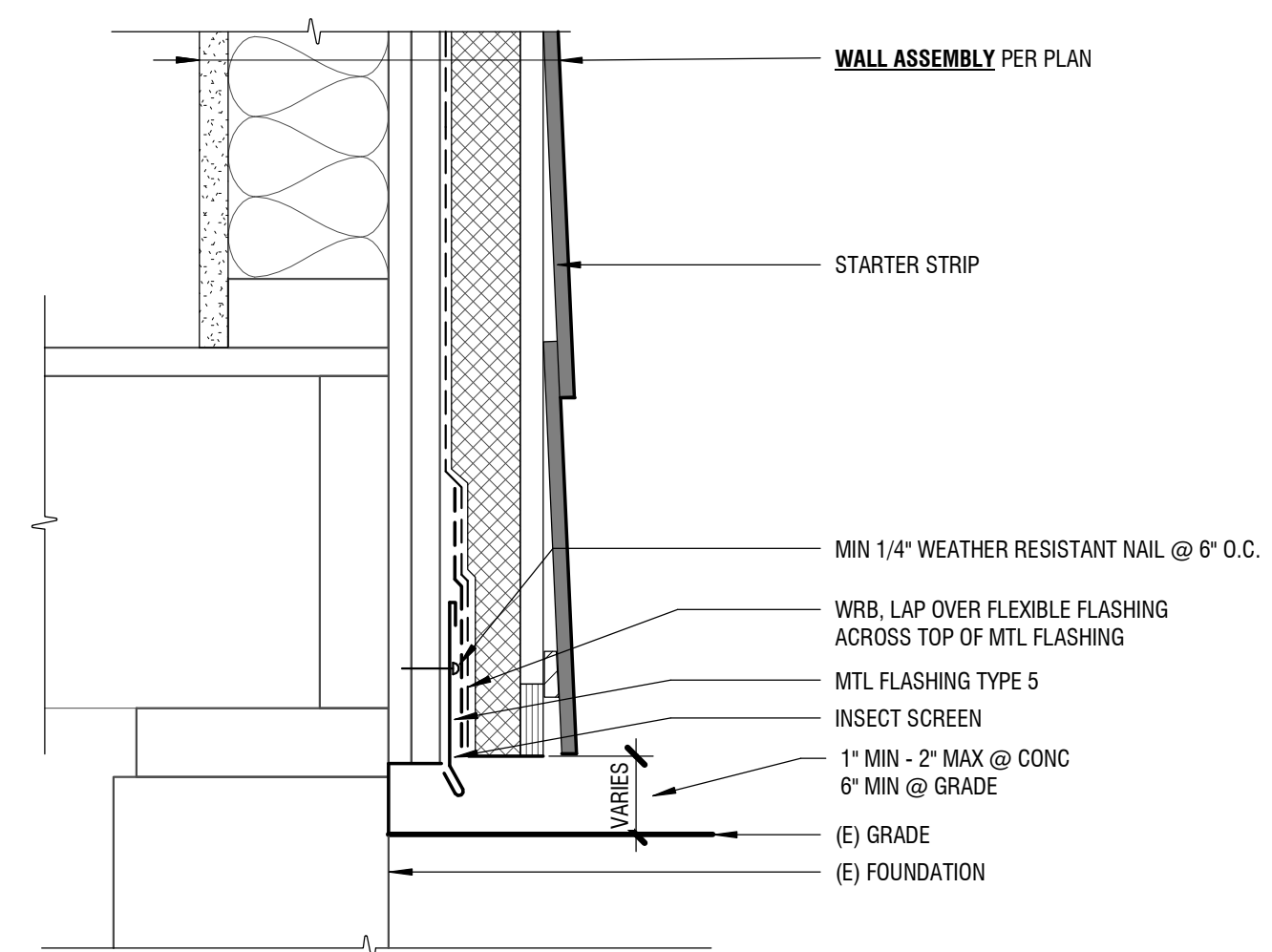
6 OUTSIDE CORNER
3" = 1'-0"



7 ROOF EAVE OVERHANG & GUTTER
3" = 1'-0"



10 INSIDE CORNER
3" = 1'-0"



12 WALL TO BASE
3" = 1'-0"

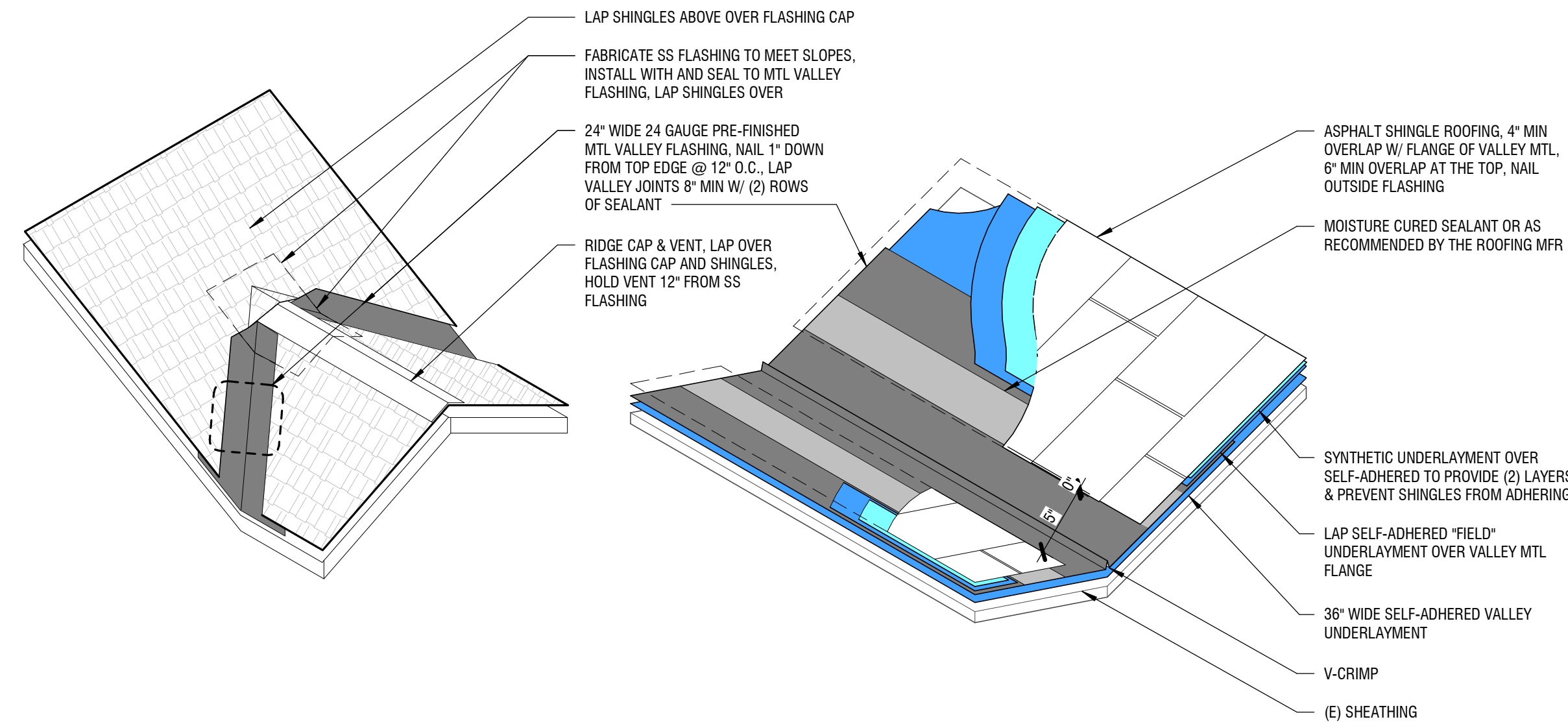
KCHA
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HOMES
OFFICE TI &
ENVELOPE

BID SET

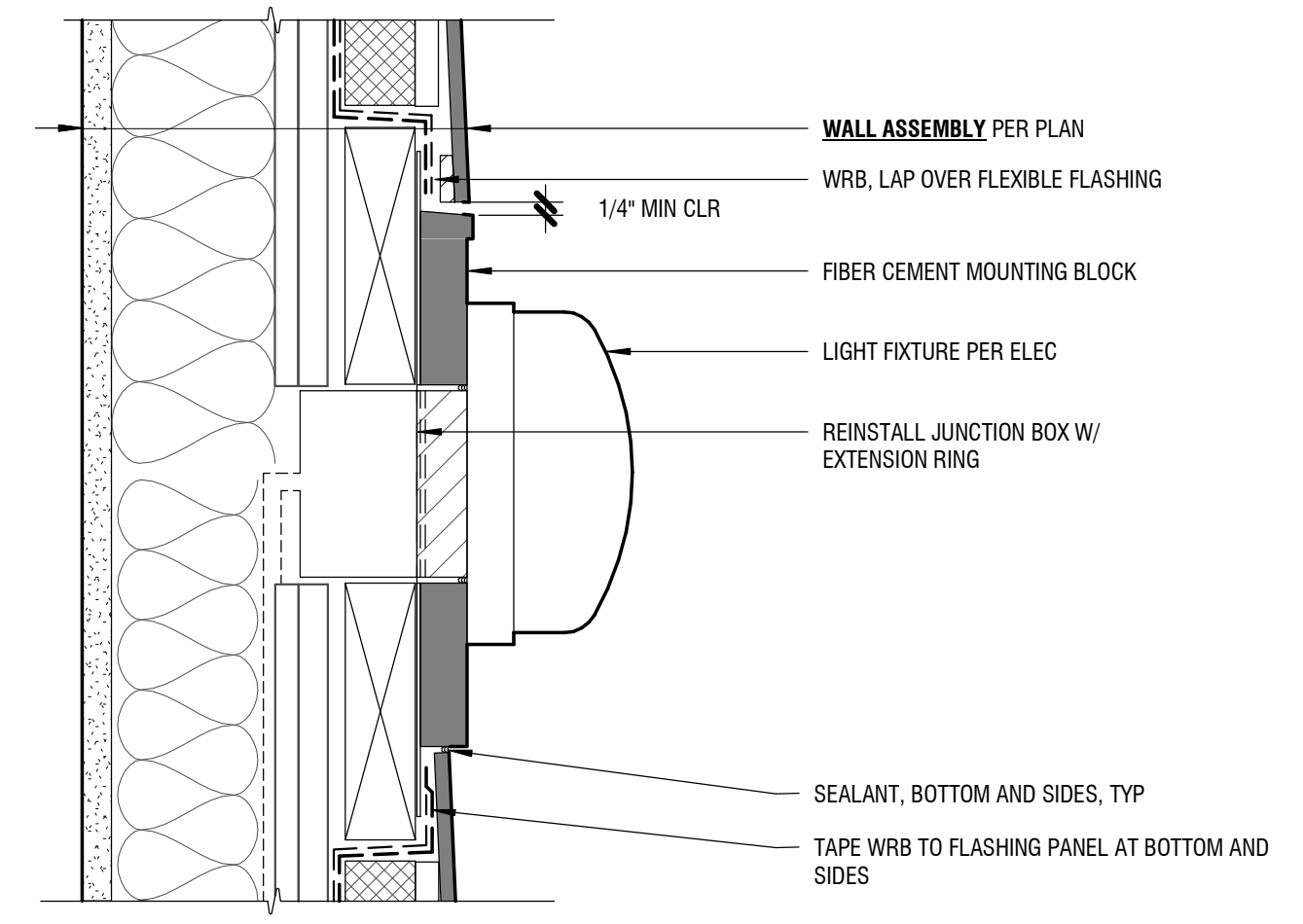
930 18TH PLACE NE
AUBURN, WA 98002

Drawn by:	KL	
Checked:	LJ	
Date:	8/17/2023	
Scale:	3" = 1'-0"	
Revisions:		
No.	Date	Remarks

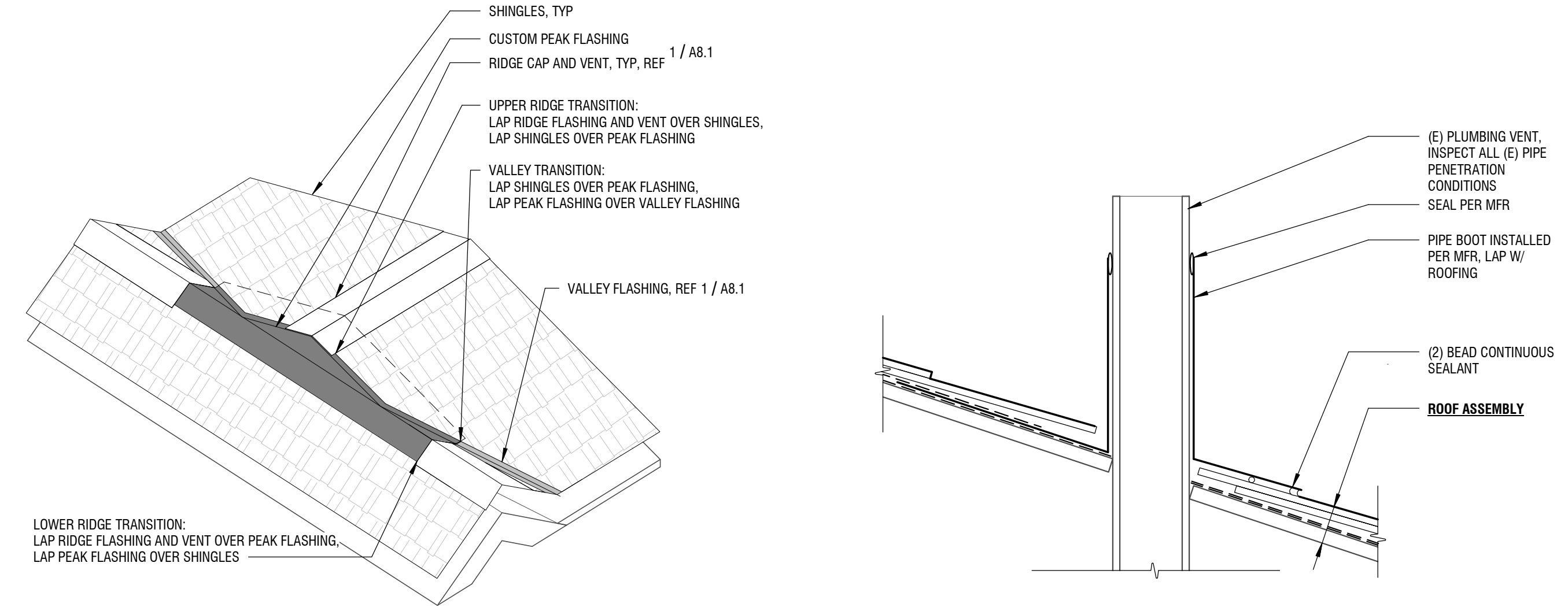
EXTERIOR
DETAILS
A8.0



1 VALLEY FLASHING TRANSITION
NTS

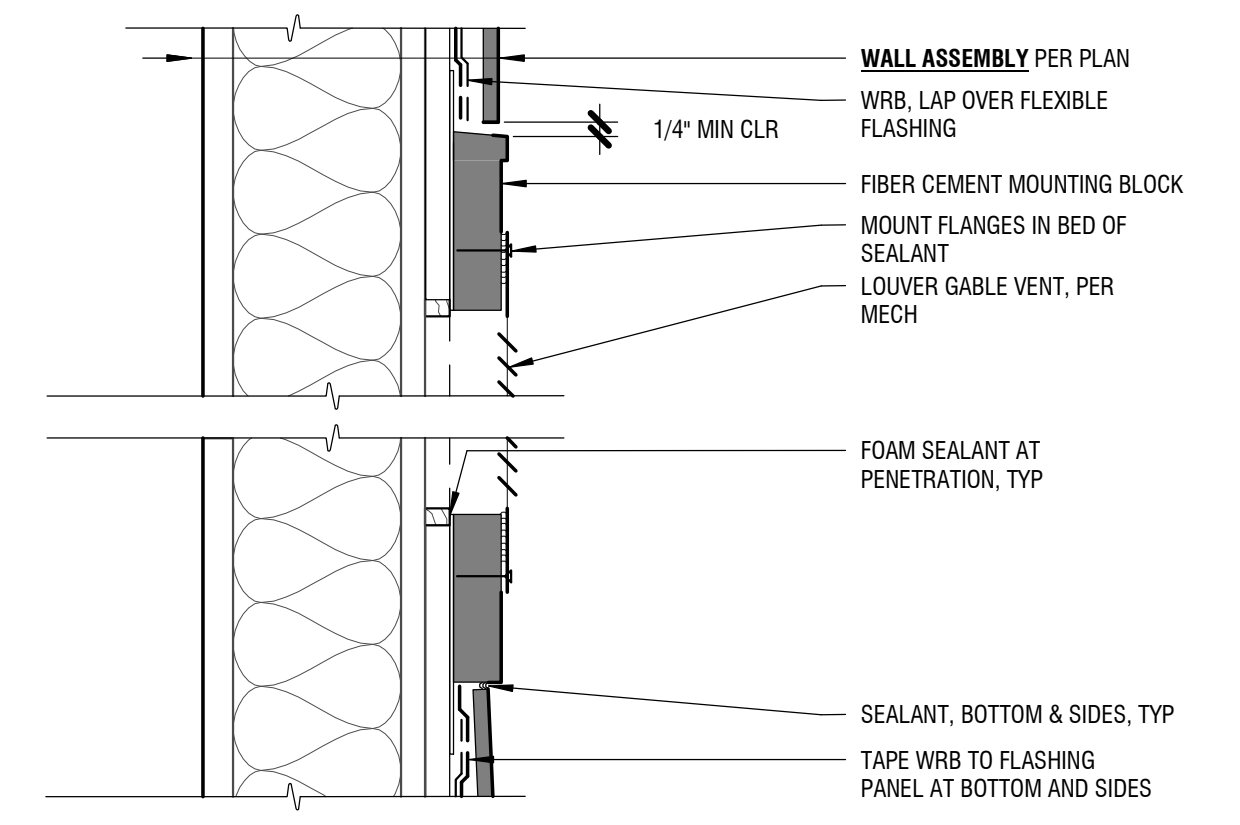


4 WALL-MOUNTED LIGHTING FIXTURE
3" = 1'-0"

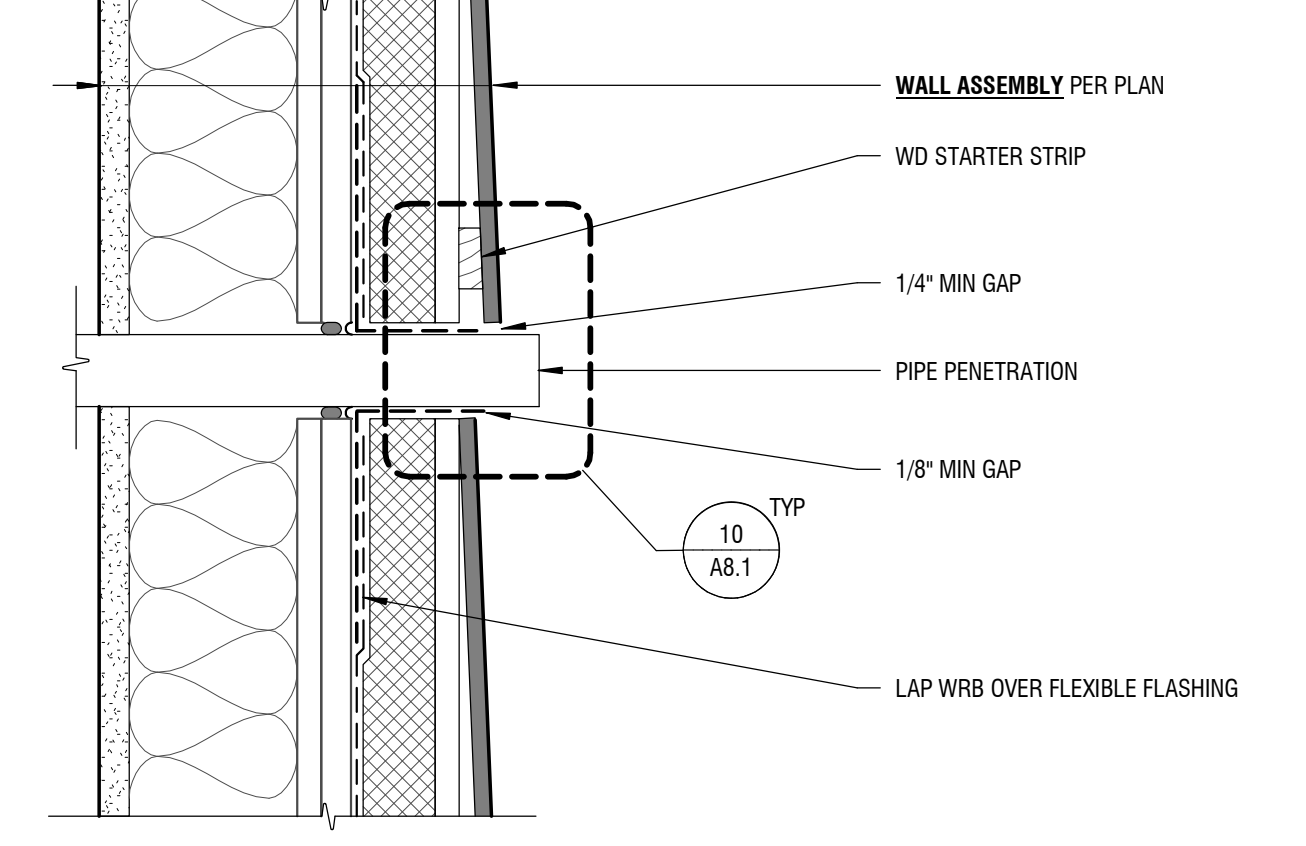


5 FLASHING AT RAISED ROOF PEAK

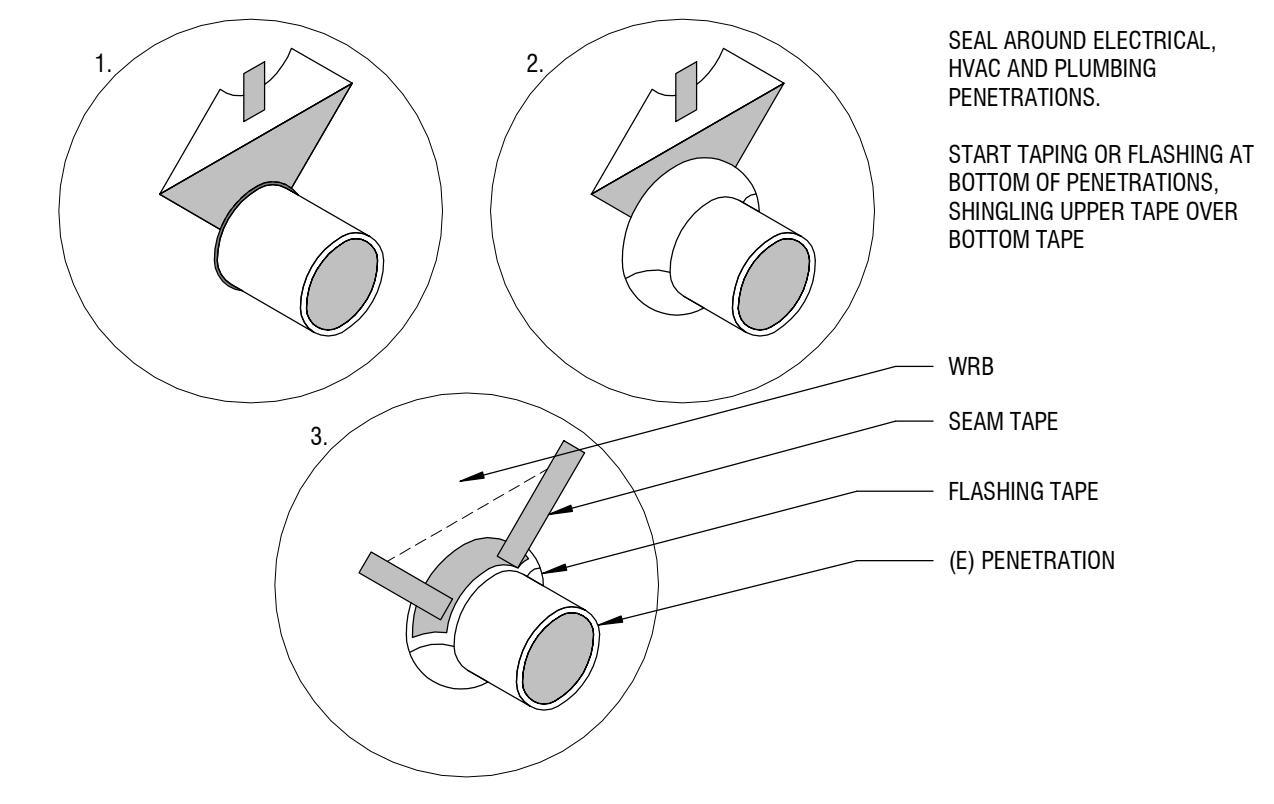
6 PLUMBING VENT FLASHING
3" = 1'-0"



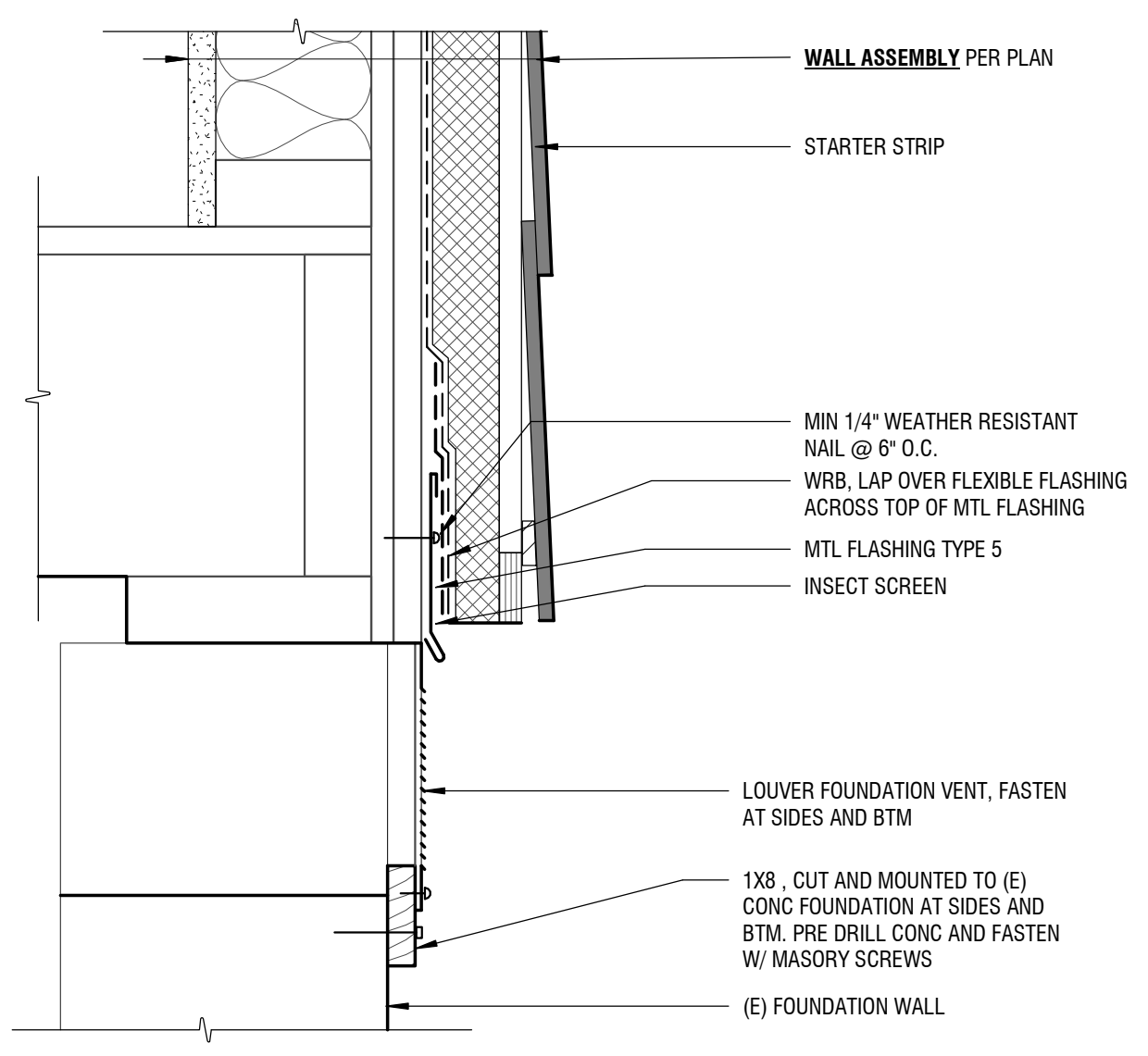
7 GABLE FACE VENT
3" = 1'-0"



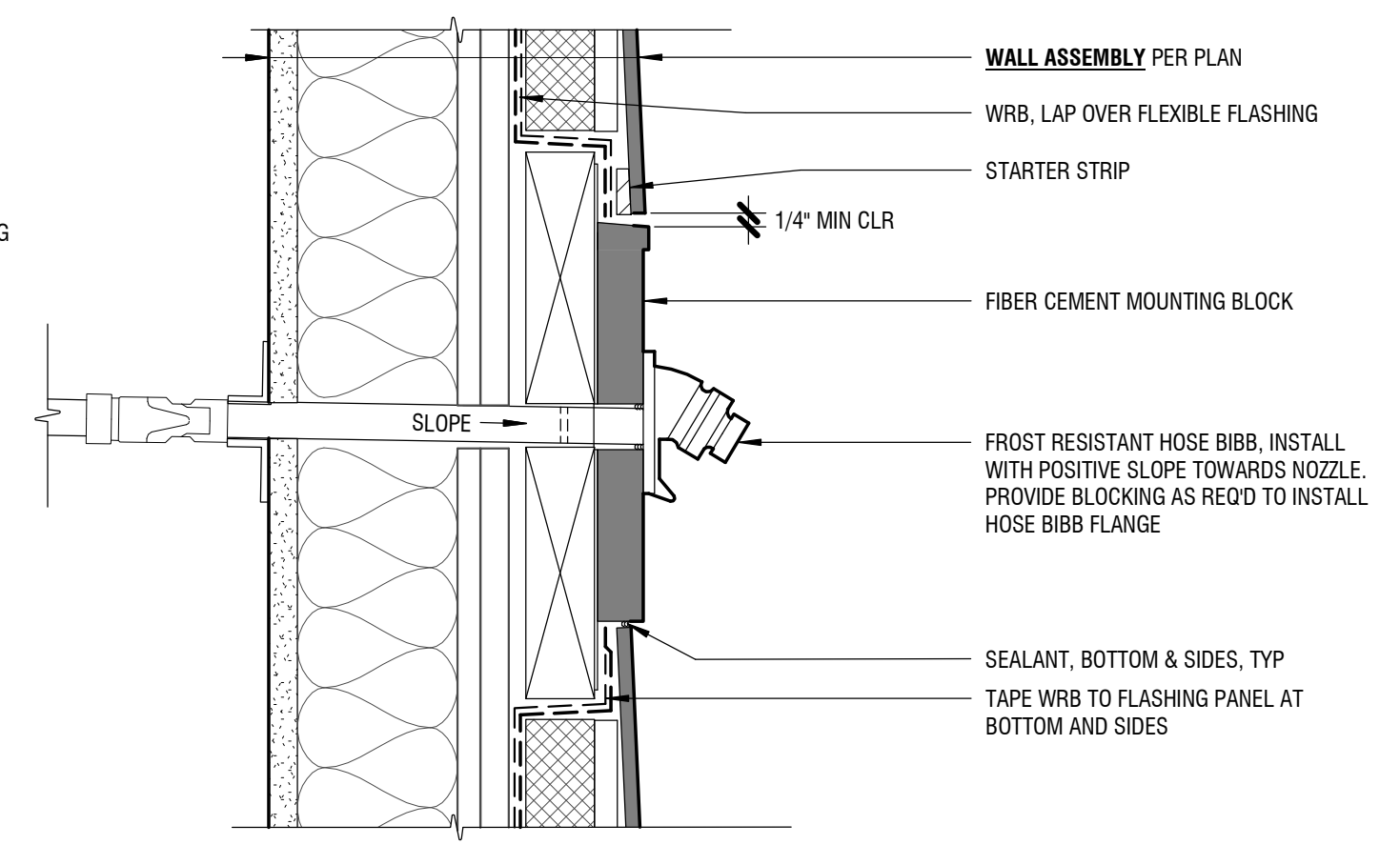
8 PIPE PENETRATION AT LAP SIDING
3" = 1'-0"



10 FLASHING PENETRATION
3" = 1'-0"



11 CRAWLSPACE VENT
3" = 1'-0"



12 HOSE BIBB PIPE PENETRATION
3" = 1'-0"

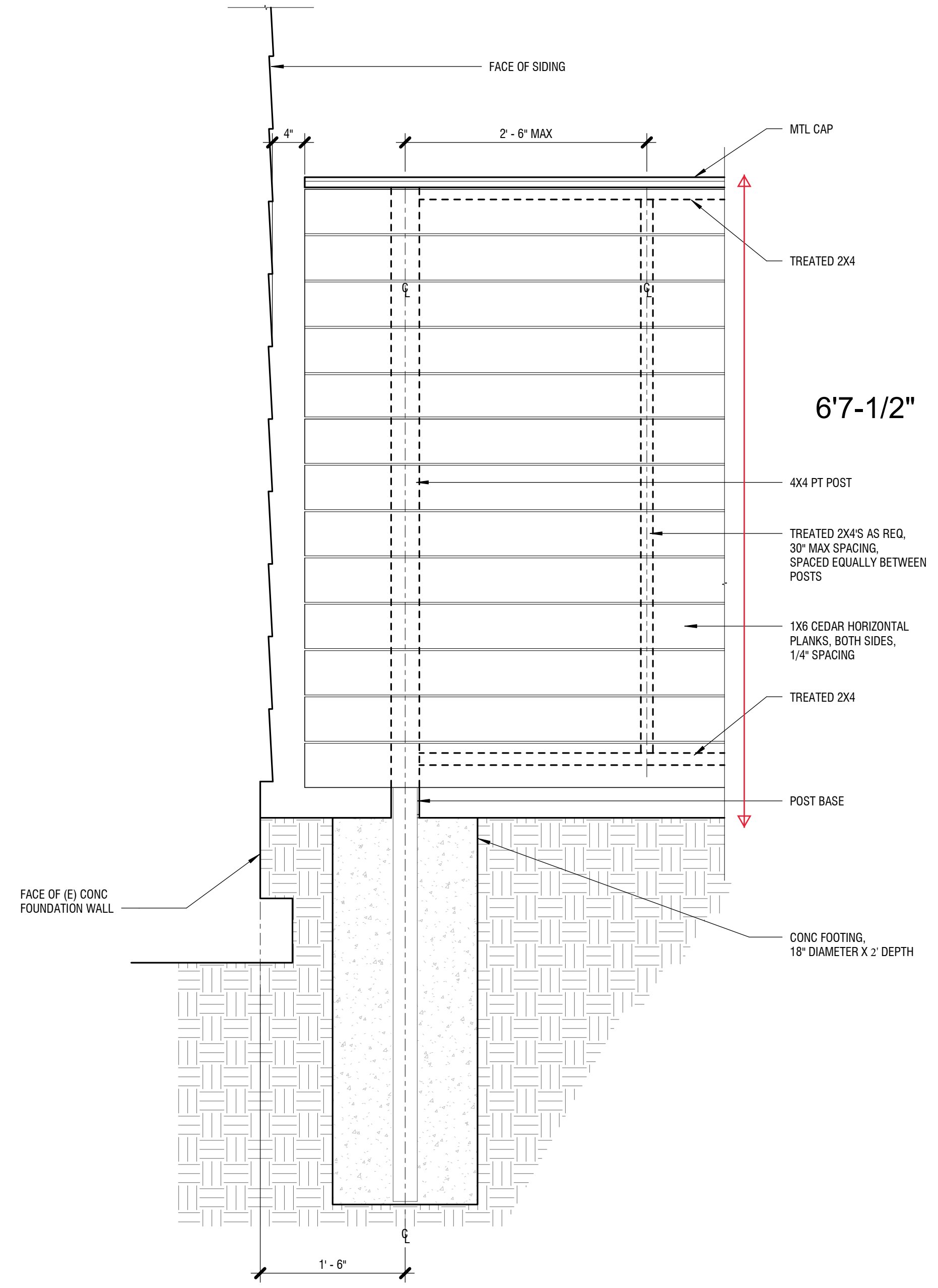
KCHA
BURDALE
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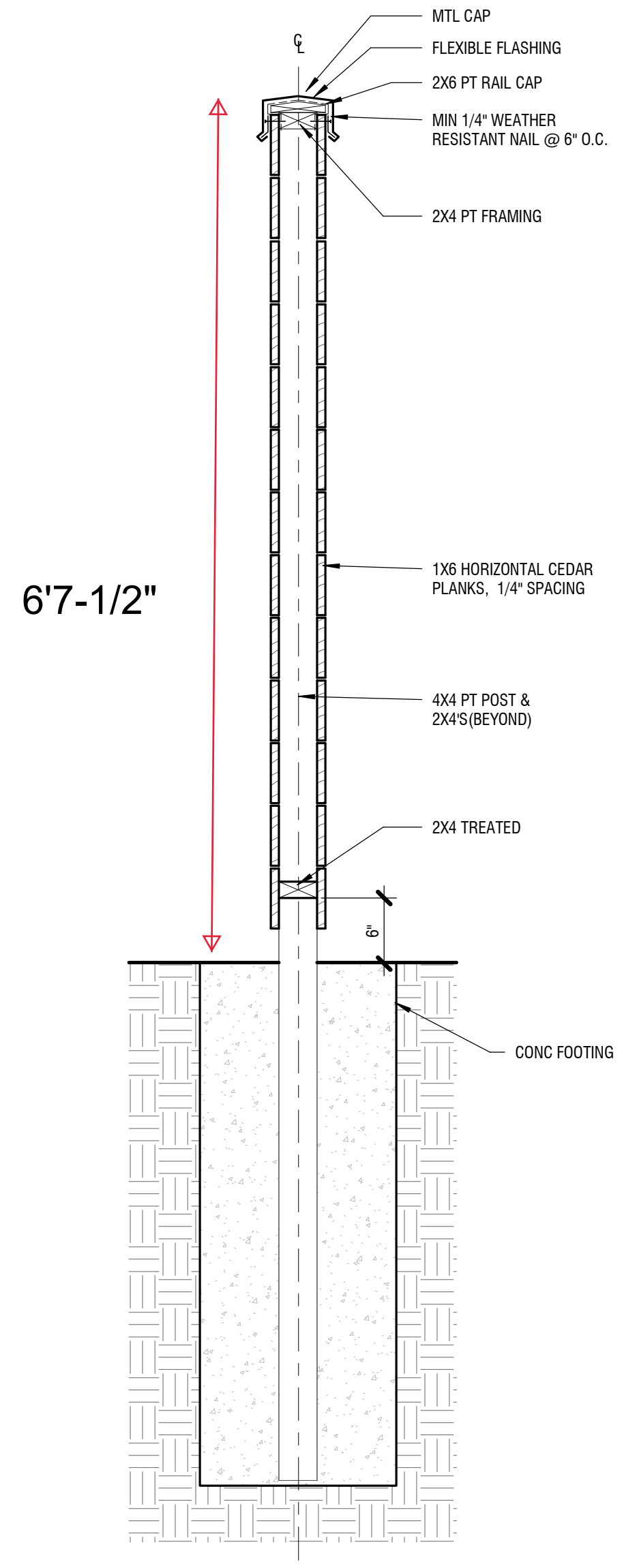
930 18TH PLACE NE
AUBURN, WA 98002

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Date:	8/17/2023	
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Revisions:		
No.	Date	Remarks

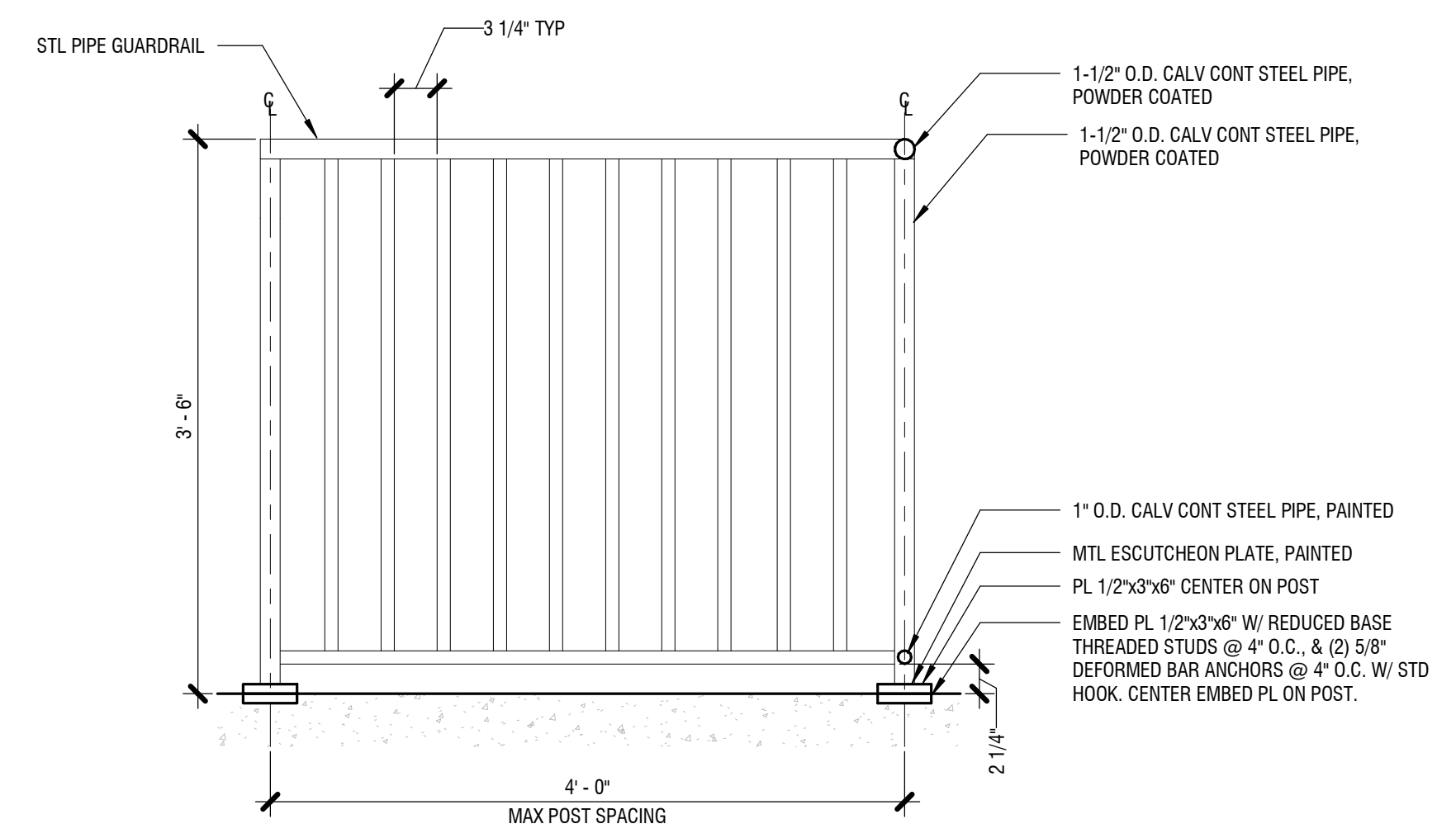
EXTERIOR
DETAILS
A8.1



1 FENCE WALL DETAIL
1" = 1'-0"



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



4 EXTERIOR GUARDRAIL DETAIL
1" = 1'-0"

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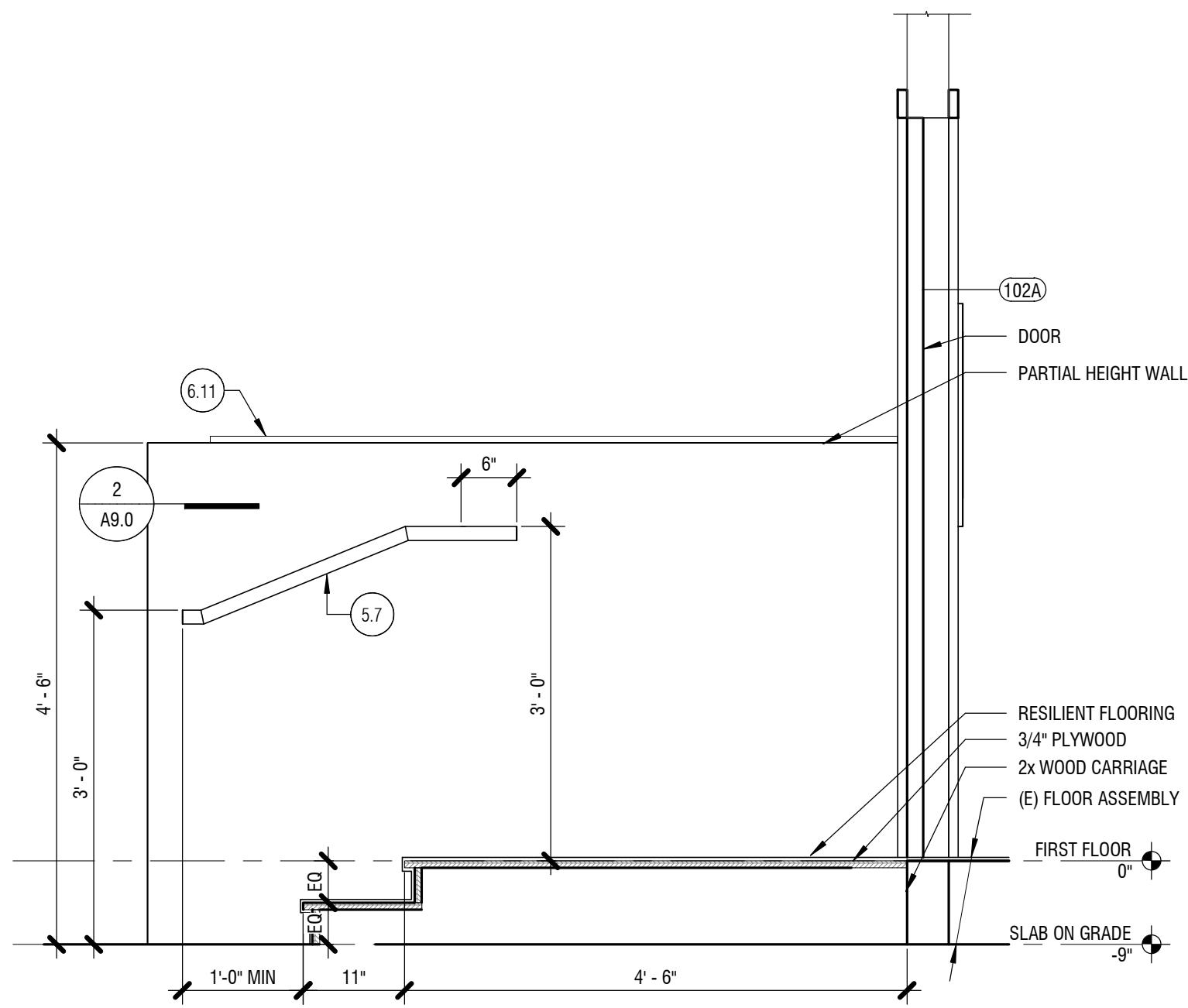
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Checked: LJ
Date: 8/17/2023
Scale: 1" = 1'-0"
Revisions:
No. Date Remarks

EXTERIOR
DETAILS

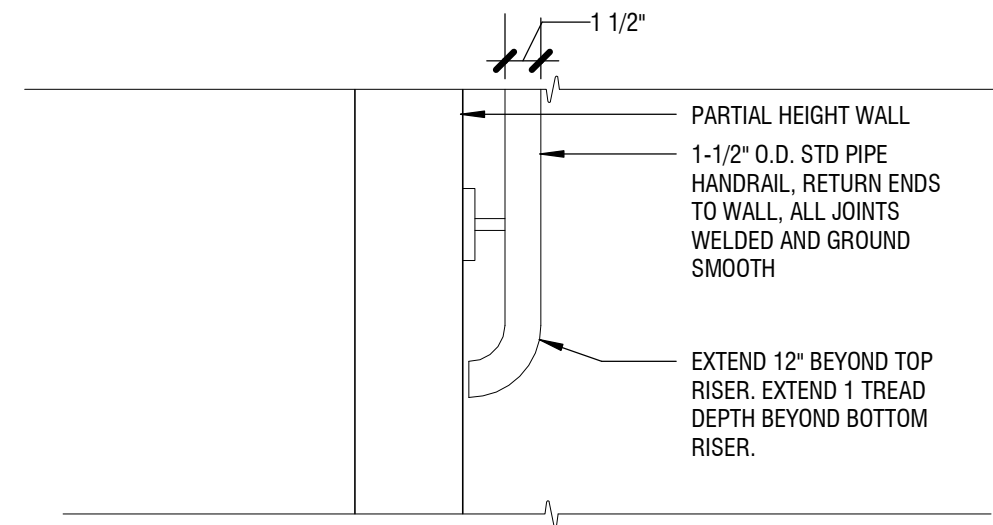
A8.2



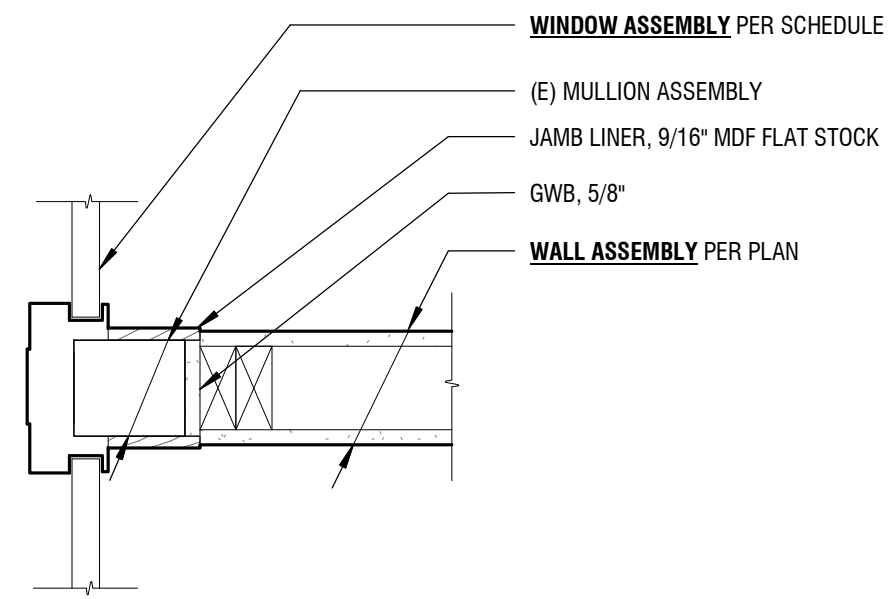
MARK	KEYNOTE TEXT
5.7	STEEL PIPE HANDRAIL, WALL MOUNTED
6.11	WOOD CAP



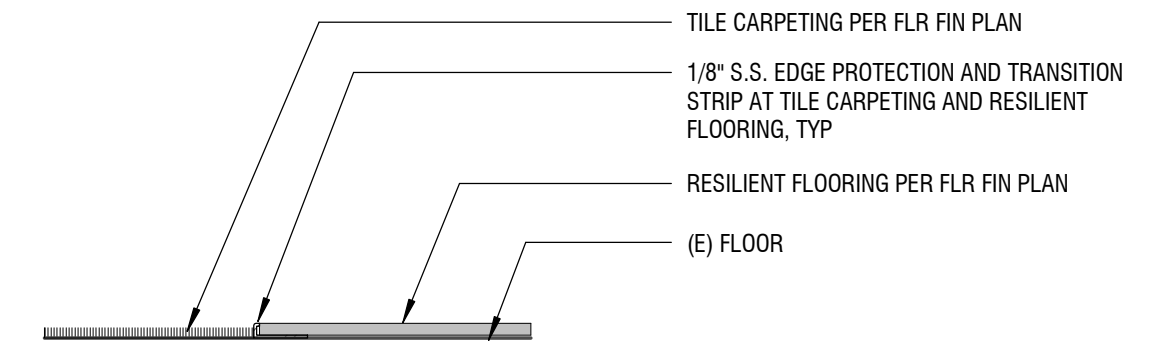
1 STAIR SECTION
3/4" = 1'-0"



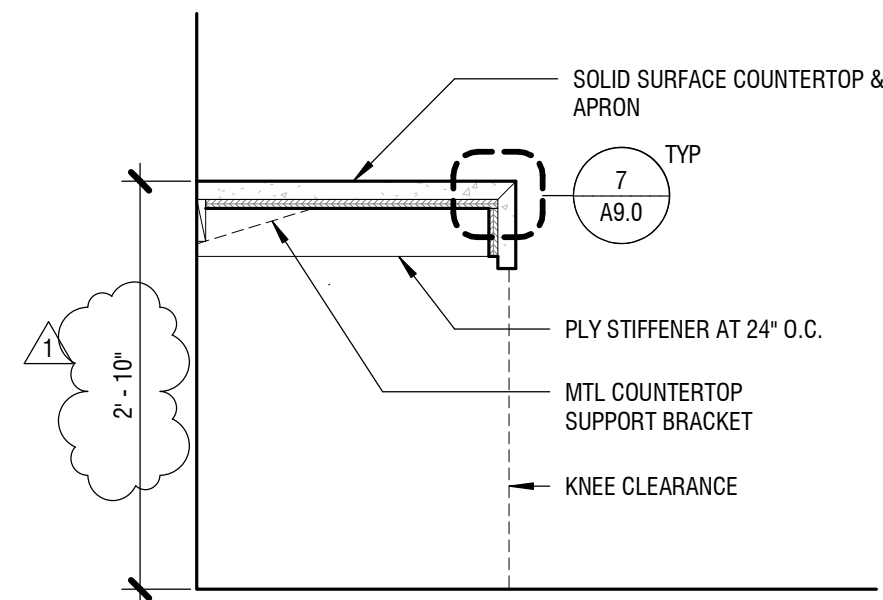
2 HANDRAIL DETAIL
1 1/2" = 1'-0"



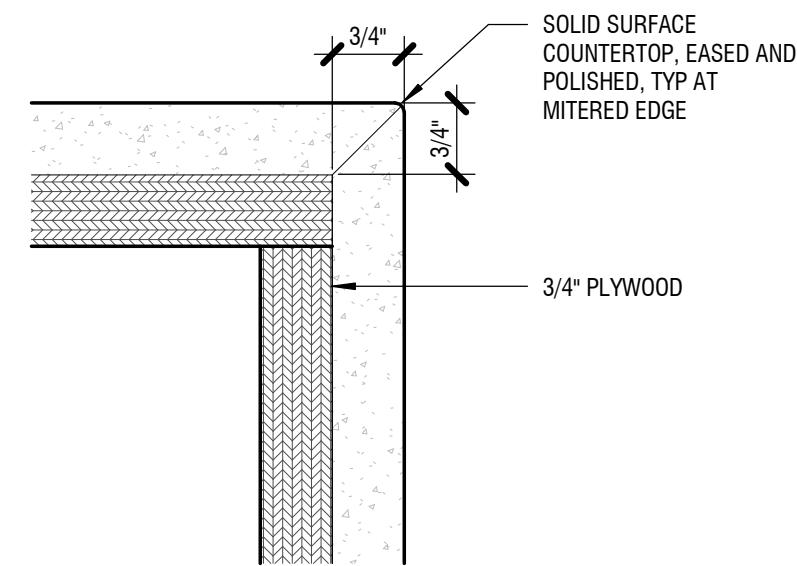
3 PARTITION CONNECTION BETWEEN WINDOWS
1 1/2" = 1'-0"



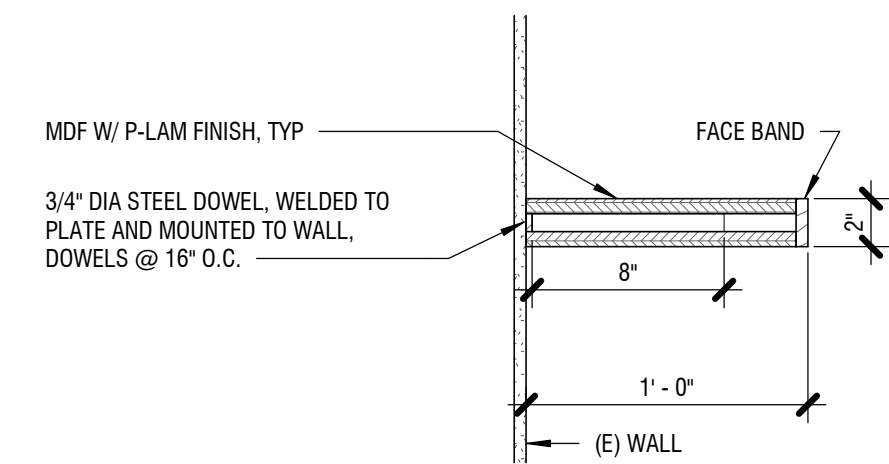
4 TRANSITION - TILE CARPET TO RESILIENT TILE
3" = 1'-0"



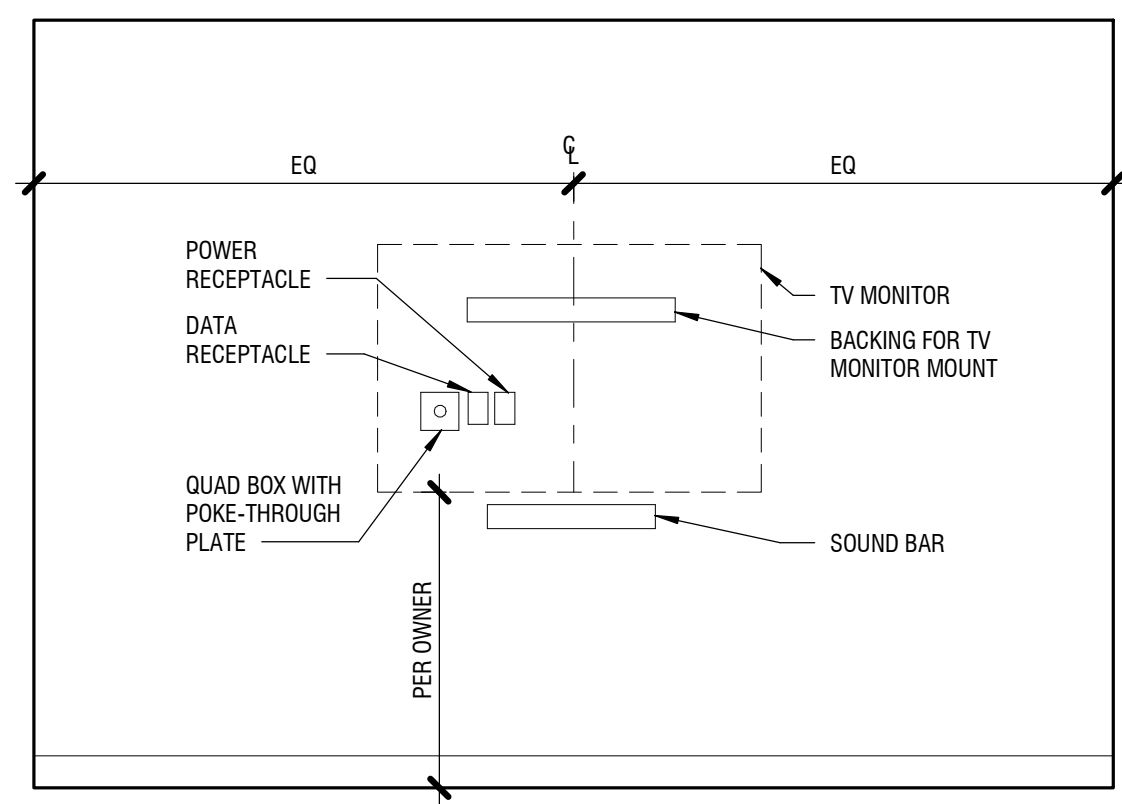
6 RESTROOM COUNTERTOP SECTION
3/4" = 1'-0"



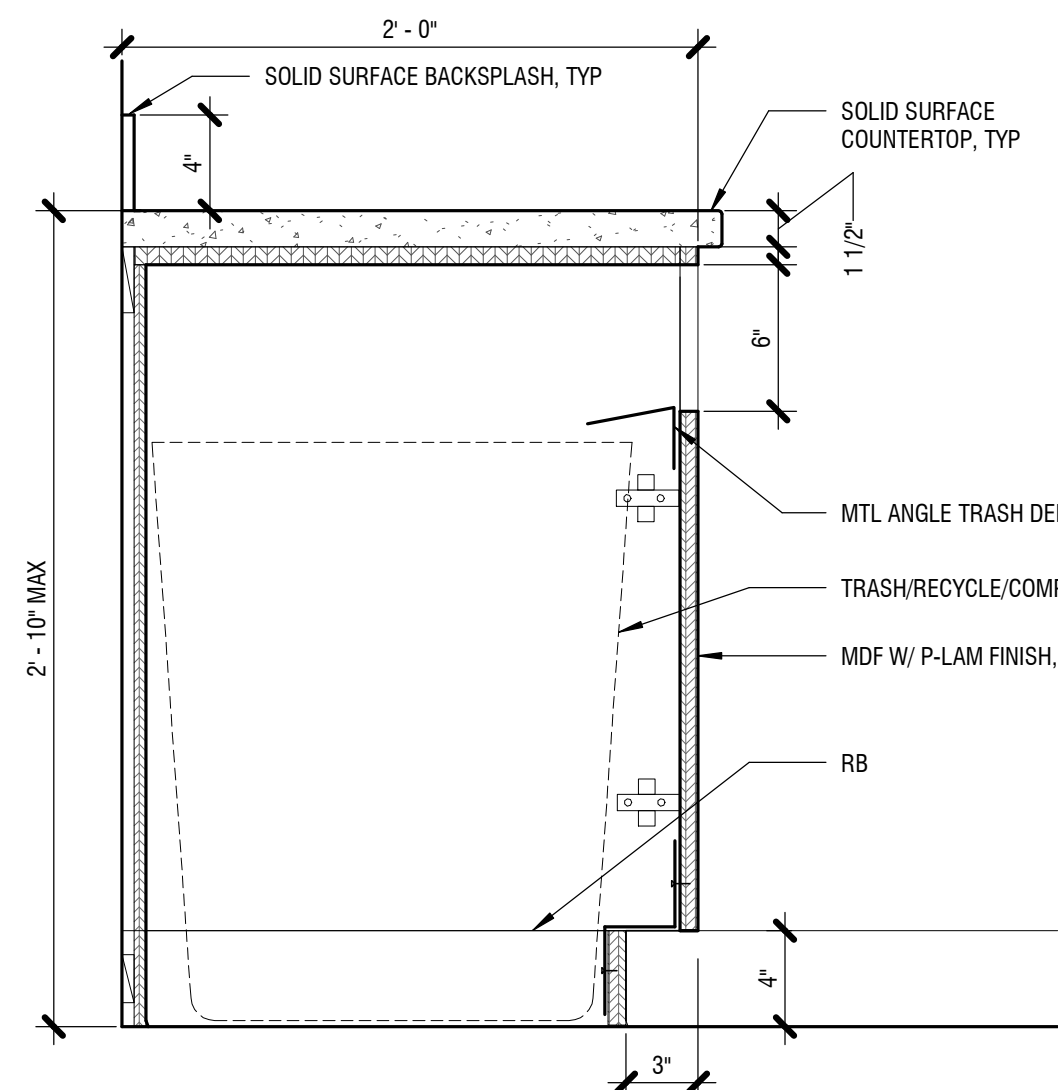
7 RESTROOM COUNTERTOP EDGE AT APRON
6" = 1'-0"



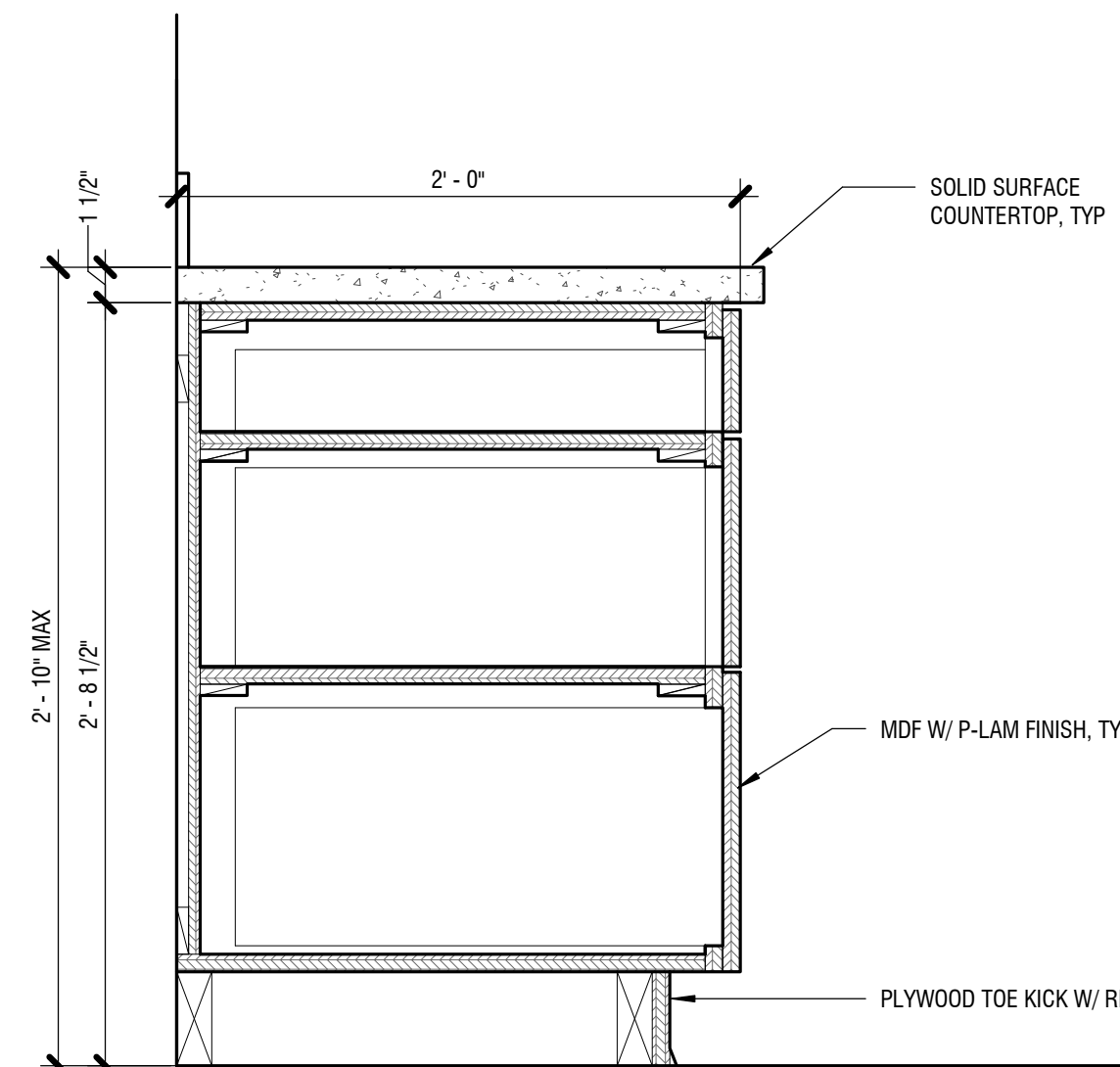
8 FLOATING SHELF
1 1/2" = 1'-0"



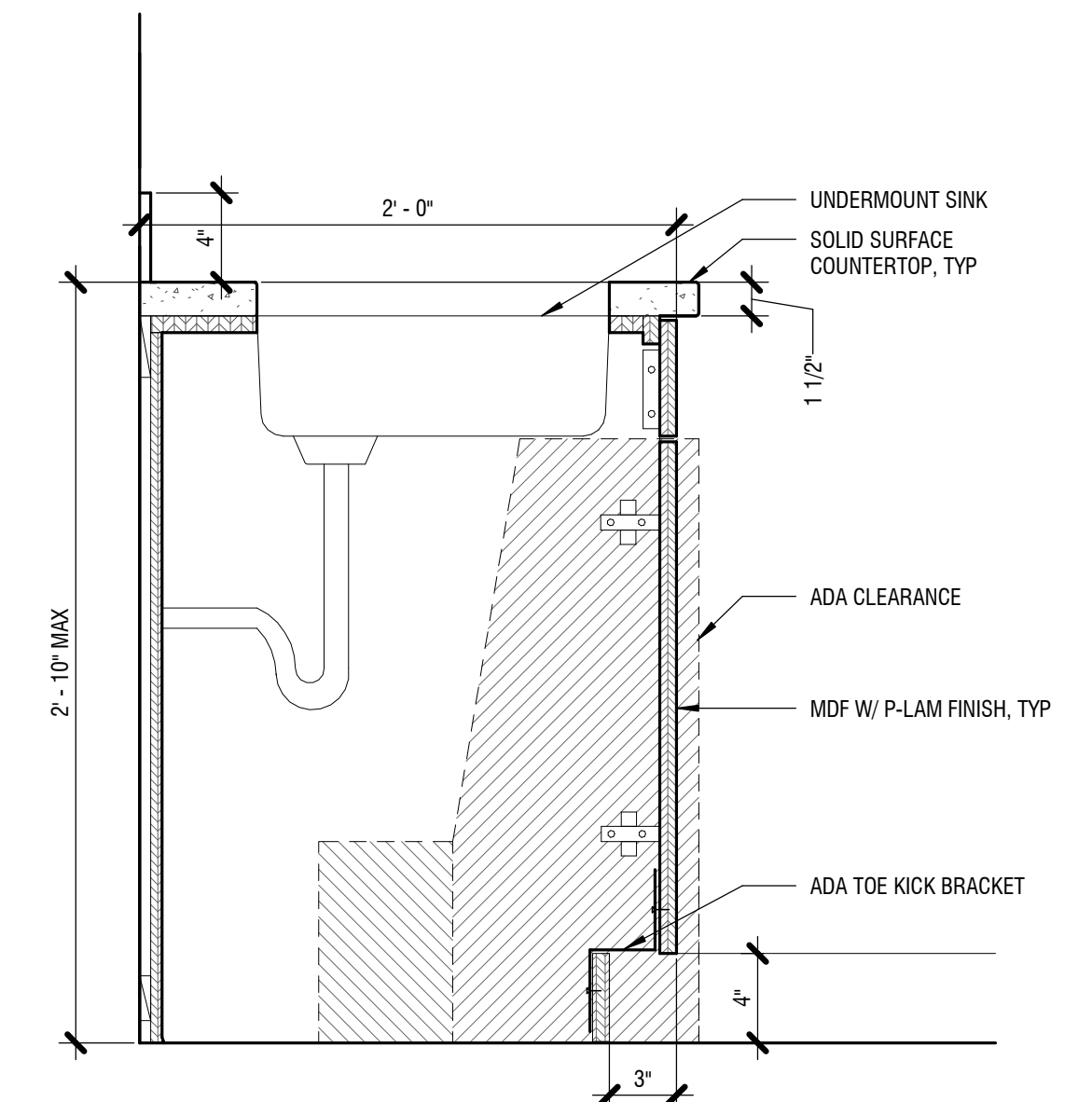
9 105 - CONFERENCE ROOM NORTH - AV ELEVATION
1/2" = 1'-0"



5 TRASH/RECYCLE/COMPOST CASEWORK SECTION
1 1/2" = 1'-0"



11 TYP CASEWORK SECTION
1 1/2" = 1'-0"



12 ADA SINK CASEWORK SECTION
1 1/2" = 1'-0"

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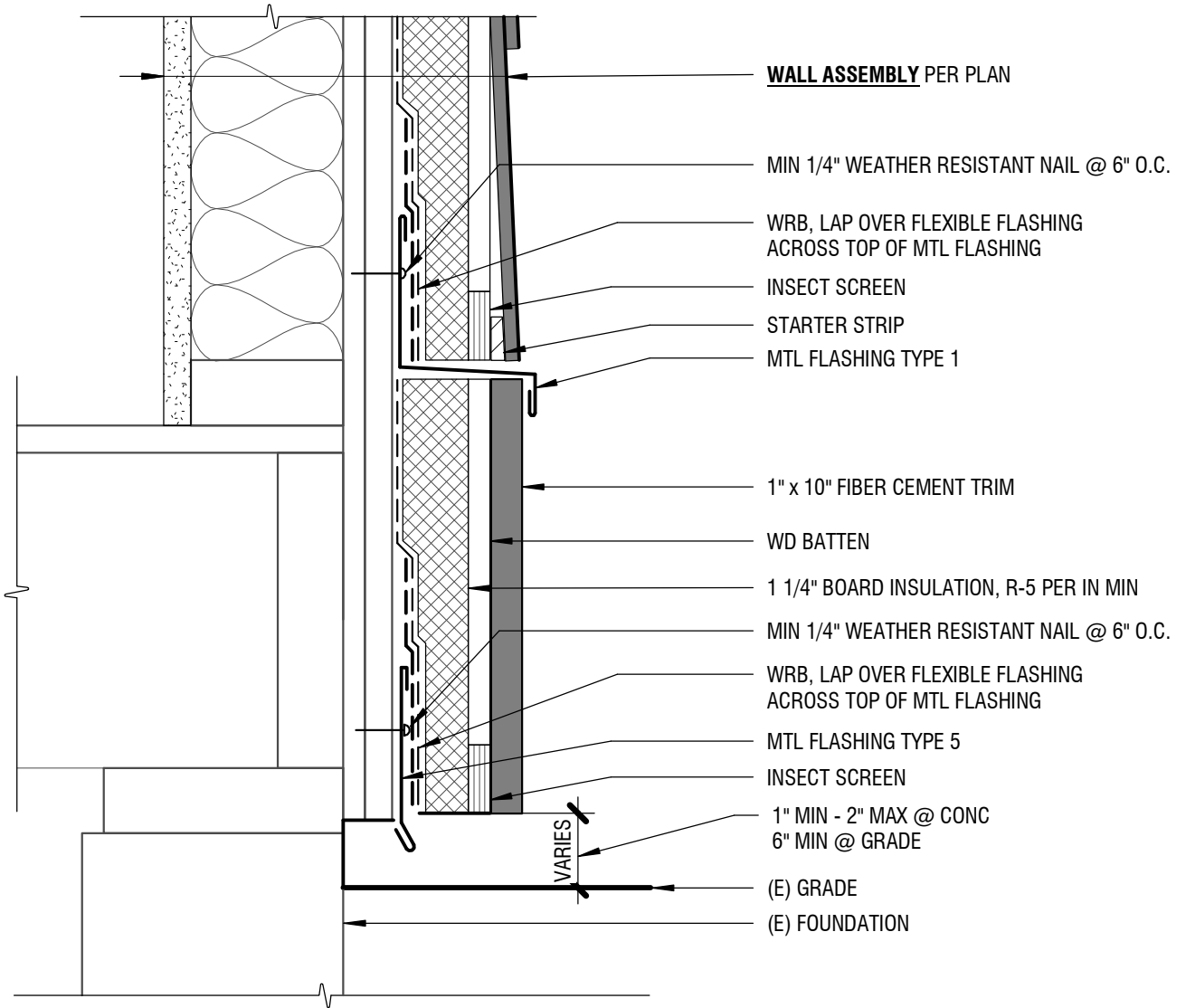
BID SET

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No. Date Remarks
1 9/22/2023 Revision 1

INTERIOR
DETAILS
A9.0



11/7/2023 8:52:49 AM

SHKS ARCHITECTS

KCHA BURNDALE HOMES OFFICE TI & ENVELOPE

WALL TO BASE WITH TRIM

Scale: 3" = 1'-0"

Date: 11/7/2023

1050 N. 38th St.

Seattle, WA 98103

PH: 206.675.9151

www.shksarchitects.com

ASK-01

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING...

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK.

DESIGN CRITERIA

VERTICAL LOADS

Table with 5 columns: AREA, DESIGN DEAD LOAD, LIVE LOAD (1), PARTITION LOAD, CONCENTRATED LOADS

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.11.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF) - RAIN ON SNOW FOR FLAT ROOFS NOT REQUIRED BASED ON ROOF SLOPES

Pg = 20 PSF = GROUND SNOW LOAD Pf = 0.7CeCt1sPg = FLAT ROOF SNOW LOAD Ps = CsPf = SLOPED ROOF SNOW LOAD Is = 1.0 Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION.

LATERAL FORCE RESISTING SYSTEM: ALL MEMBERS AND CONNECTIONS REFERRED TO AS LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL COMPLY WITH REQUIREMENTS OF THE SEISMIC FORCE RESISTING SYSTEM AND THE WIND FORCE RESISTING SYSTEM SET FORTH IN THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704 AND 1705, AND AS NOTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = C - BASIC WIND SPEED, (3 SEC. GUST), VULT = 98 MPH - RISK CATEGORY PER IBC TABLE 1604.5 = II - TOPOGRAPHIC FACTOR KzT = 1.0 - INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18 - COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

Table with 6 columns: EFFECTIVE WIND AREA, POSITIVE PRESSURES (PSF), NEGATIVE PRESSURES (PSF), ZONE 3, 1, 2r, 2e, 3

Table with 5 columns: EFFECTIVE WIND AREA, POSITIVE PRESSURE (PSF), NEGATIVE PRESSURE (PSF), ZONE 2, 4, 5

Table with 5 columns: EFFECTIVE WIND AREA, NEGATIVE PRESSURE (PSF), ZONE 3, 1, 2r, 2e, 3

- 1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES. 2. WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 FOR ASCE 7-16 IN LOW RISE BUILDINGS. 3. ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = CsW

WHERE Cs = (Sps / Re); WITH

Cs MINIMUM = 0.044 SpsIe ≥ 0.01 OR Cs MINIMUM = (0.5S1 / Re) FOR S1 > 0.6g

Cs MAXIMUM = T((R1 / Re)) FOR T ≤ TL OR Cs MAXIMUM = (SpsTL / T^2)((R1 / Re)) FOR T > TL

SEISMIC IMPORTANCE FACTOR, Ie = 1.0 RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II SPECTRAL RESPONSE ACCELERATIONS Ss = 1.279 & S1 = .438 SITE CLASS PER TABLE 20.3-1 = D - DEFAULT DESIGN SPECTRAL RESPONSE ACCELERATIONS Sps = 1.023 & Sp1 = 0.544 SEISMIC DESIGN CATEGORY = D W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 101 KIPS ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE SEISMIC FORCE-RESISTING SYSTEM PER TABLE 12.2-1: LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE RESPONSE MODIFICATION FACTOR, R = 6.5 OVERSTRENGTH FACTOR, Ω = 2.5 DEFLECTION AMPLIFICATION FACTOR, Cd = 6.5 Cs = 0.157 DESIGN BASE SHEAR V = 15.8 KIPS REDUNDANCY FACTOR PER 12.3.4, ρ = 1.0

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA VALUES ARE ASSUMED

ALLOWABLE SOIL BEARING PRESSURE: 1000 PSF (ASSUMED PER CITY OF AUBURN CODE AND DESIGN REQUIREMENTS)

ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE (ASSUMED) ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE (ASSUMED) PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5) (ASSUMED) COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5) (ASSUMED) *1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING STATIC DIFFERENTIAL SETTLEMENT: 3/4" MAX OVER 50 FEET (ASSUMED).

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (fc= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO (% PASSING U.S. NO. 200 SIEVE) / (% PASSING U.S. NO. 40 SIEVE) = 2/3 MAX.

CONCRETE

CAST-IN-PLACE CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE II PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

SHOTCRETE: SHALL CONFORM TO IBC SECTION 1908.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN 5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

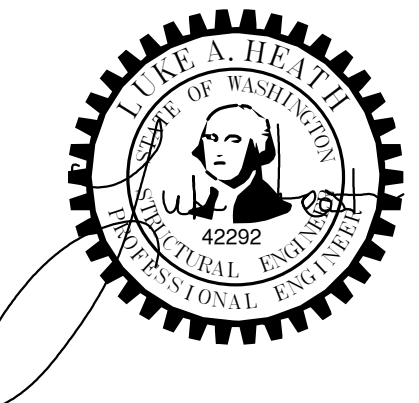
Table with 6 columns: ITEM, DESIGN fc (PSI) (AT 28 DAYS U.N.O.), MAX. W/C RATIO, MIN. FLYASH OR SLAG (PCY), AGGREGATE GRADING ASTM AASHTO, NOTES

CONCRETE MIX NOTES

- 1. SAND - CEMENT CONCRETE GROUT

Table with 2 columns: SHEET NUMBER, SHEET DESCRIPTION

1050 N. 36th St. Seattle, WA 98103 PH 206.675.9151 www.shksarchitects.com

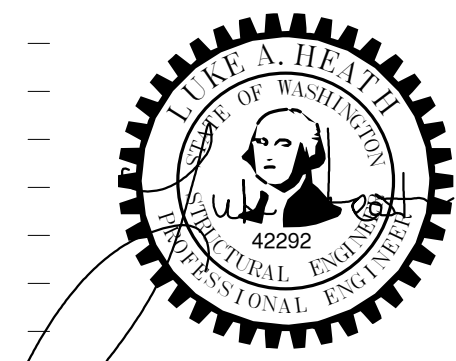


KCHA BURNDALE HOMES OFFICE TI & ENVELOPE

BID SET

930 18TH PLACE NE AUBURN, WA 98002

Drawn by: SSO Checked: LAH Date: 8/17/2023 Scale: 12" = 1'-0" Revisions: No. Date Remarks



BID SET

930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: SSO
Checked: LAH
Date: 8/17/2023
Scale: 1/2" = 1'-0"

Revisions:
No. Date Remarks

STRUCTURAL COMPOSITE LUMBER (SCL): SHALL BE MANUFACTURED BY REDBUILT LLC., OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS CONFORMING TO A CURRENT EVALUATION REPORT.

MINIMUM DESIGN VALUES:

- 1. 2x SCL: Fb = 1700 PSI, Fv = 285 PSI, E = 1300 KSI
2. 1-3/4" SCL: Fb = 2600 PSI, Fv = 285 PSI, E = 1800 KSI
3. 3-1/2" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
4. 5-1/4" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
5. RIMBOARD: APA/EWS PERFORMANCE RATED RIM (PRR-401)

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

PRESERVATIVE TREATED WOOD REQUIREMENTS:

TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED.

Table with columns: EXPOSURE, APPLICATION, SPECIFIED MATERIAL, PRESERVATIVE TREATMENT (1), CONNECTORS & FASTENERS (2)(3). Rows include FOUNDATION SILL PLATES, FRAMING, DECKING, POSTS & LEDGERS, and BEAMS & COLUMNS.

- 1. CCA: CHROMATED COPPER ARSENATE NOT PERMITTED; SBX: DOT SODIUM BORATE; ACQ: ALKALINE COPPER QUAT; CBA & CA: COPPER AZOLE.
2. CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAPS AND BASES, ETC.
3. G60, G90 & G185 PER ASTM A653 FOR COLD-FORMED STEEL CONNECTORS.
4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE...

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS.

WOOD SHRINKAGE AND CONSOLIDATION: SHRINKAGE OF WOOD MEMBERS AND CONSOLIDATION OF BEARING WALLS IS EXPECTED FROM TIME OF FRAMING UNTIL AFTER BUILDING IS PUT IN SERVICE.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

Table with columns: NO., STRUCTURAL ENGR., BLDG. DEPT. Rows include CONCRETE MIX DESIGNS, GLU-LAMINATED MEMBERS, and CONTRACTOR'S STATEMENT OF RESPONSIBILITY.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

Table: REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE). Columns include BAR SIZE, MINIMUM LAP SPLICE LENGTHS, MINIMUM DEVELOPMENT LENGTHS, MINIMUM EMBEDMENT LENGTH.

SPLICE TABLE NOTES:

- 1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ----- 3"
EXPPOSED TO WEATHER OR EARTH ----- 2"

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER (LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3G (ICC-ESR-4057) OR PRE-APPROVED EQUAL.
- EXPANSION ANCHORS: KWIKBOLT T22 (ICC ESR-4266) BY HILTI, INC., OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC., OR PRE-APPROVED EQUAL.

CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON NAILS WITH THE FOLLOWING PROPERTIES:

Table with columns: PENNYWEIGHT, DIAMETER (INCHES), LENGTH (INCHES). Rows include 8d, 10d, 16d, 20d.

WOOD SHEATHING (STRUCTURAL): SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY. SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS PERFORMANCE CATAGORY 3/4" OR THICKER.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS.

FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSOC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)

- 1. 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
2. EXTERIOR STUDS. INTERIOR BEARING WALLS AND 4x COLUMNS. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc= 1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
3. INTERIOR NON-BEARING STUD WALLS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
4. THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
5. UTILITY & STANDARD GRADES NOT PERMITTED.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS. DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

Table: FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1. Columns include ITEM, CLASS OF FINISH. Rows include ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O., ALL SURFACES RECEIVING A COURSE TEXTURED COATING, ALL OTHER SURFACES.

COLD WEATHER PLACEMENT:

- 1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

Table with columns: CONDITION OF PLACEMENT AND CURING, WALLS & SLABS, FOOTINGS. Rows include MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, MAX. ALLOWABLE GRADUAL DROP IN TEMP.

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN 0.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY.

- 1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

EMBEDDED ITEMS

- 1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		
CONCRETE	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 17.8.2 MFR EVAL REPORT
	TESTING OF MATERIALS		X		IBC 1705.3.2
WOOD FRAMING	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST					
⊙	AT	F.S.	FAR SIDE	T#B	TOP & BOTTOM
A.B.	ANCHOR BOLT	FTG	FOOTING	T#G	TONGUE AND GROOVE
ADD'L	ADDITIONAL	GA.	GAGE/GAUGE	THR'D	THREADED
A.F.F.	ABOVE FINISH FLOOR	GALV.	GALVANIZED	T.O.F.	TOP OF FOOTING
ALT.	ALTERNATE	GL.	GLULAM	T.O.S.	TOP OF STEEL
ARCH.	ARCHITECTURAL	GR.	GRADE	TRT'D	TREATED
BLD'G	BUILDING	GWB	GYPSON WALL BOARD	TYP.	TYPICAL
BLK'G	BLOCKING	HDR	HEADER	U.N.O.	UNLESS NOTED OTHERWISE
BM	BEAM	HGR	HANGER	U.T.	ULTRASONIC TESTED
B.O.F.	BOTTOM OF FOOTING	HORIZ.	HORIZONTAL	VERT.	VERTICAL
BOT.	BOTTOM	HSS	HOLLOW STRUCTURAL SECTION	W	WITH
BRB	BUCKLING RESTRAINED BRACE	HT	HEIGHT	W.P.	WORK POINT
BRG	BEARING	INT.	INTERIOR	WT	WEIGHT
BTWN	BETWEEN	JST	JOIST	W.W.R.	WELDED WIRE REINFORCING
B.U.	BUILT UP	JT	JOINT		
(C=)	CAMBER	L	ANGLE		
CANT.	CANTILEVER	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM		
CFS	COLD-FORMED STEEL	L.L.	LIVE LOAD		
C.J.	CONTROL/CONSTRUCTION JOINT	LLH	LONG LEG HORIZONTAL		
℄	CENTERLINE	LLV	LONG LEG VERTICAL		
CLR.	CLEARANCE	LOC.	LOCATION		
CMU	CONCRETE MASONRY UNIT	LSL	LAMINATED STRAND LUMBER		
COL.	COLUMN	LVL	LAMINATED VENEER LUMBER		
CONC.	CONCRETE	MAX.	MAXIMUM		
CONN.	CONNECTION	M.B.	MACHINE BOLT		
CONST.	CONSTRUCTION	MECH.	MECHANICAL		
CONT.	CONTINUOUS	MEZZ.	MEZZANINE		
CONTR.	CONTRACTOR	MFR	MANUFACTURER		
COORD.	COORDINATE	MIN.	MINIMUM		
C.P.	COMPLETE PENETRATION	MISC.	MISCELLANEOUS		
CTR'D	CENTERED	MTL	METAL		
C.Y.	CUBIC YARD	N.F.	NEAR FACE		
DBL.	DOUBLE	N.S.	NEAR SIDE		
DCW	DEMAND CRITICAL WELD	NTS	NOT TO SCALE		
D.F.	DOUGLAS FIR	O.C.	ON CENTER		
DIA. OR Ø	DIAMETER	OPNG	OPENING		
DIAG.	DIAGONAL	OPP.	OPPOSITE		
DIM.	DIMENSION	P.A.F.	POWDER ACTUATED FASTENER		
D.L.	DEAD LOAD	PERP.	PERPENDICULAR		
DWG	DRAWING	PL	PLATE		
DWL	DOWEL	P.P.	PARTIAL PENETRATION		
(E)	EXISTING	P.P.T.	PRESERVATIVE PRESSURE TREATED		
EA.	EACH	P.S.F.	POUNDS PER SQUARE FOOT		
E.F.	EACH FACE	PSL	PARALLAM		
EL.	ELEVATION	P.T.	POST TENSION		
ELEV.	ELEVATOR	PW.	PLYWOOD		
ENGR	ENGINEER	REINF.	REINFORCEMENT		
EQ.	EQUAL	REQ'D	REQUIRED		
E.W.	EACH WAY	SCHED.	SCHEDULE		
EXP.	EXPANSION	SCL	STRUCTURAL COMPOSITE LUMBER		
EXT.	EXTERIOR	SHT'G	SHEATHING		
FDN	FOUNDATION	SIM.	SIMILAR		
F.F.	FAR FACE	S.O.G.	SLAB ON GRADE		
FLR	FLOOR	SQ.	SQUARE		
F.O.M.	FACE OF MASONRY	STD	STANDARD		
F.O.S.	FACE OF STUD	STIFF.	STIFFENER		
FRMG	FRAMING	STL	STEEL		
F.R.T.	FIRE RETARDANT TREATED	STRUCT.	STRUCTURAL		

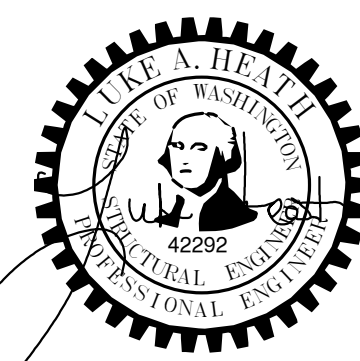


KCHA
BURDALE
HOMES
OFFICE TI &
ENVELOPE

BID SET

930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: SSO
Checked: LAH
Date: 8/17/2023
Scale: 12" = 1'-0"
Revisions:
No. Date Remarks



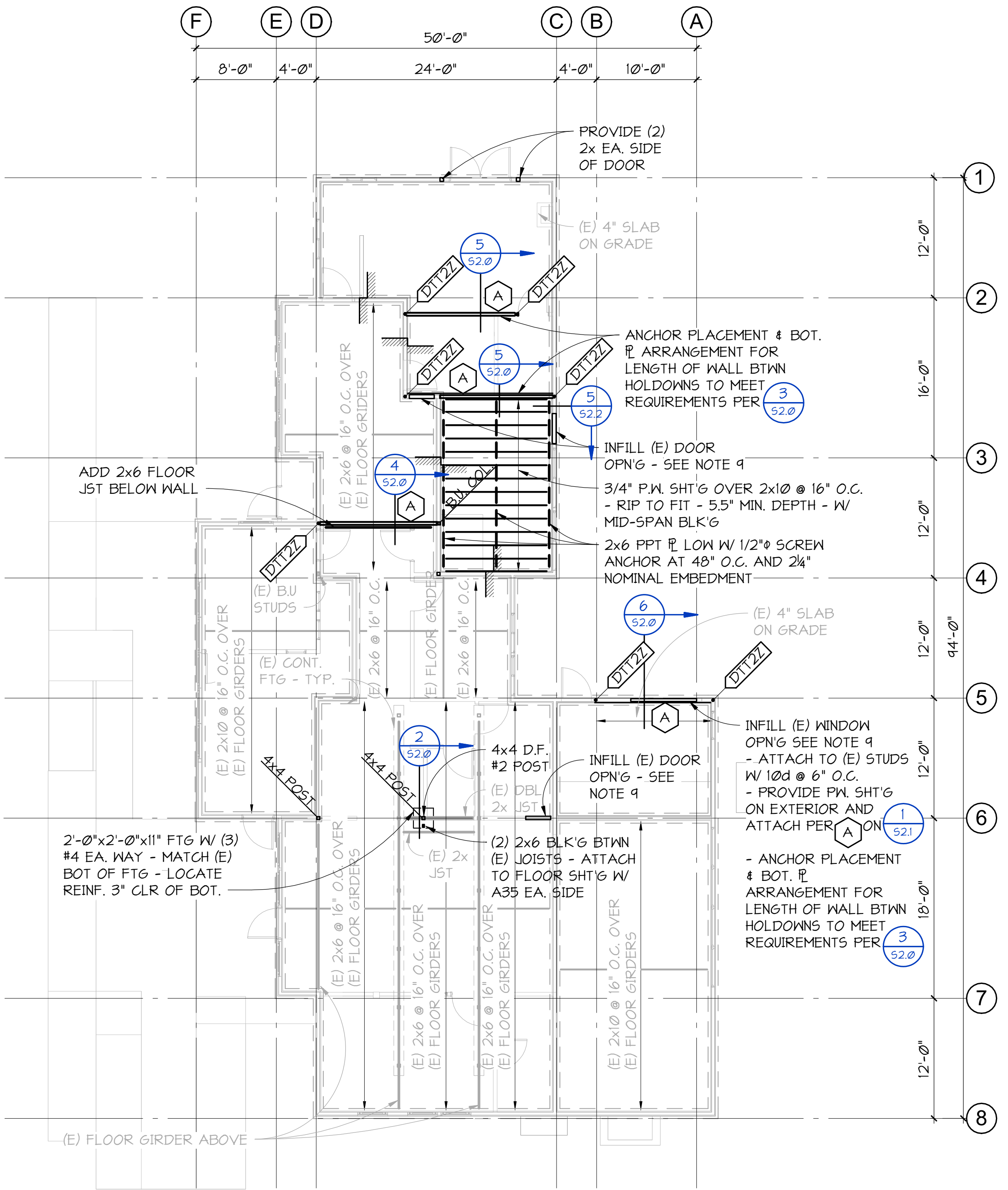
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930 18TH PLACE NE
AUBURN, WA 98002

Drawn by:	SSO	
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Scale:	1/8" = 1'-0"	
Revisions:		
No.	Date	Remarks

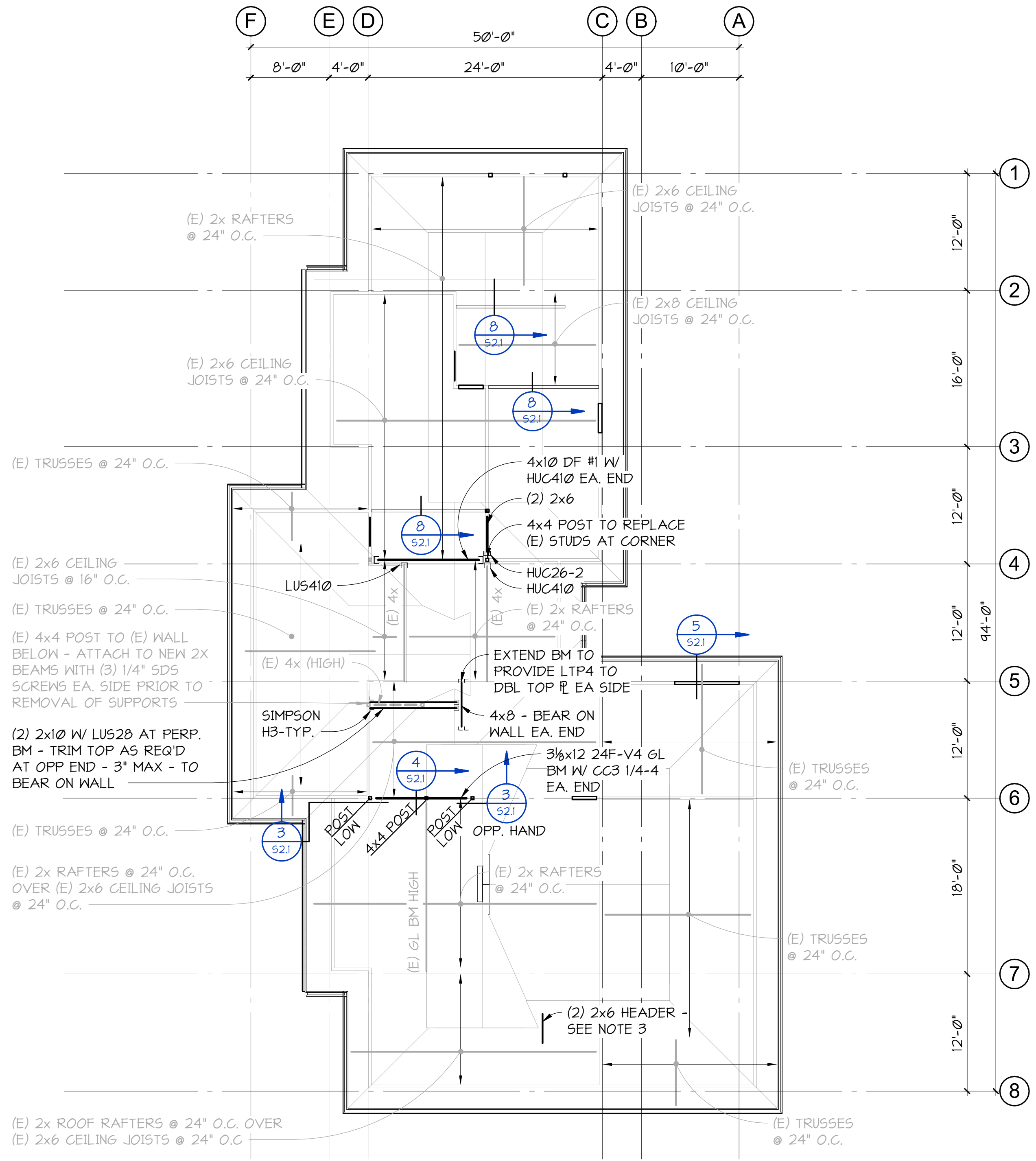
FRAMING PLANS
S1.1



1 FOUNDATION PLAN
S1.1 1/8" = 1'-0"

FOUNDATION AND GRADE NOTES

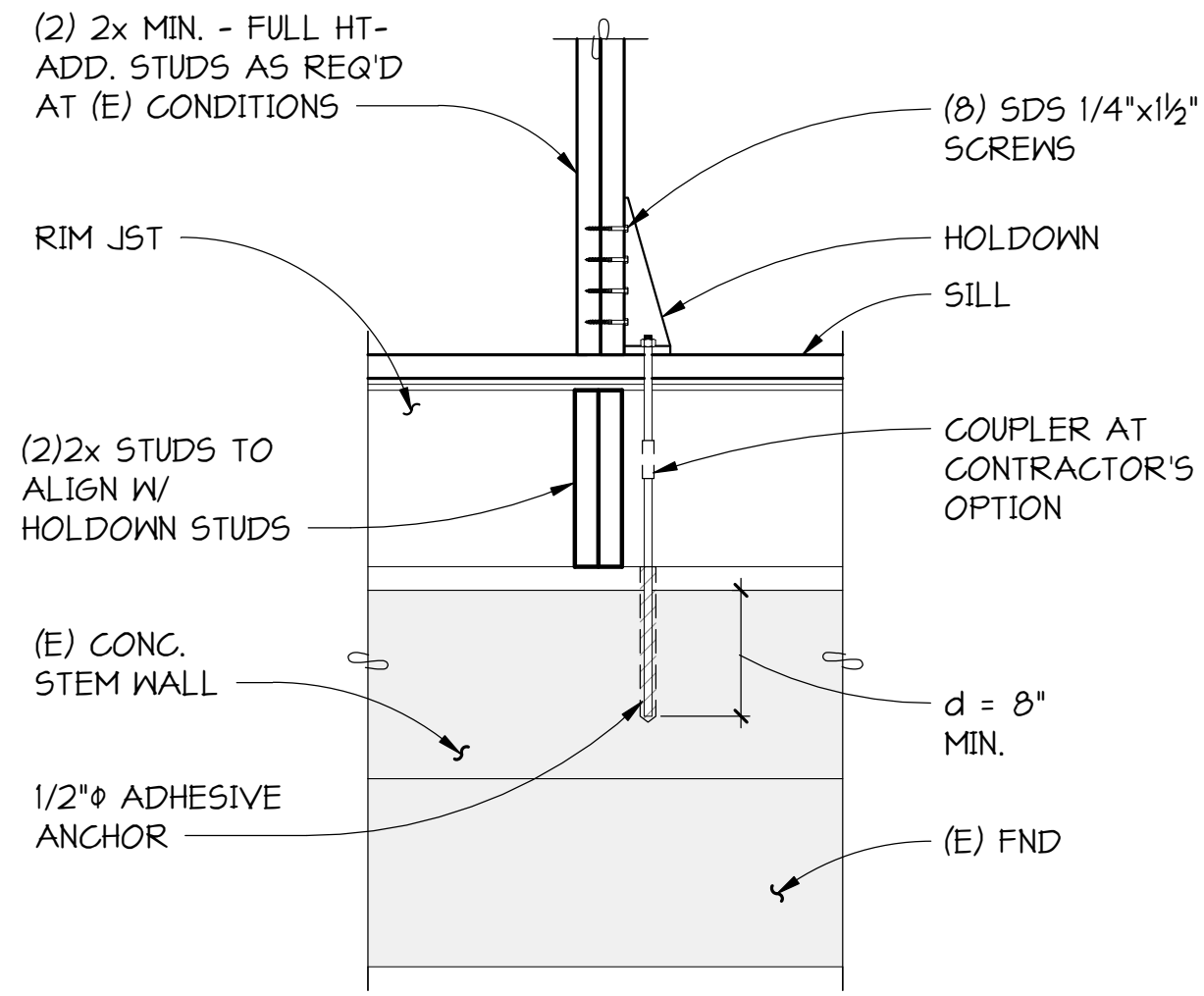
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = TOP OF SLAB = 0'-0" UNLESS NOTED OTHERWISE.
- INDICATES (E) CONCRETE STEM WALL.
- INDICATES (E) CONTINUOUS CONCRETE WALL FOOTING.
- INDICATES WOOD STUD BUILT-UP COLUMN. SEE 6/52.1 FOR TYPICAL DETAIL.
- FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE 52.1 FOR TYPICAL DETAIL.
- INDICATES WOOD SHEAR WALL TYPE. SEE 1/52.1 FOR SCHEDULE. AT EXISTING STUD WALL ADD STUDS AS REQUIRED FOR PANEL JOINT LAYOUT.
- INDICATES HOLD-DOWN. SEE 1/52.0.
- COORDINATE DEMOLITION OF FINISHES WITH ARCHITECT AND MECHANICAL ENGINEER.
- INFILL EXISTING DOORS AND WINDOWS AS REQUIRED - SEE SHEET S2.2 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ANCHOR PLACEMENT AND BOTTOM PLATE ARRANGEMENT AT DOOR INFILL AT EXTERIOR WALL OR OVER EXISTING STEM WALL TO MEET REQUIREMENTS PER 3/52.0.



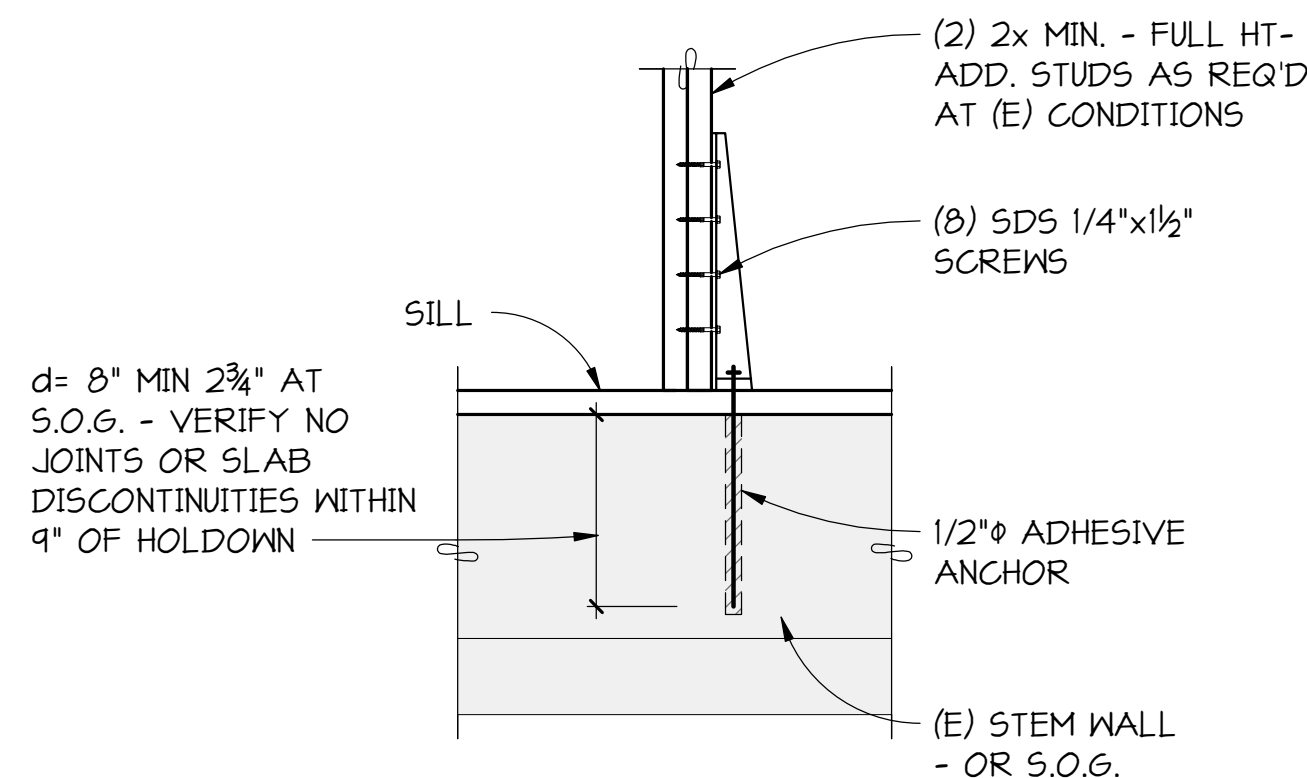
2 ROOF FRAMING PLAN
S1.1 1/8" = 1'-0"

ROOF FRAMING NOTES

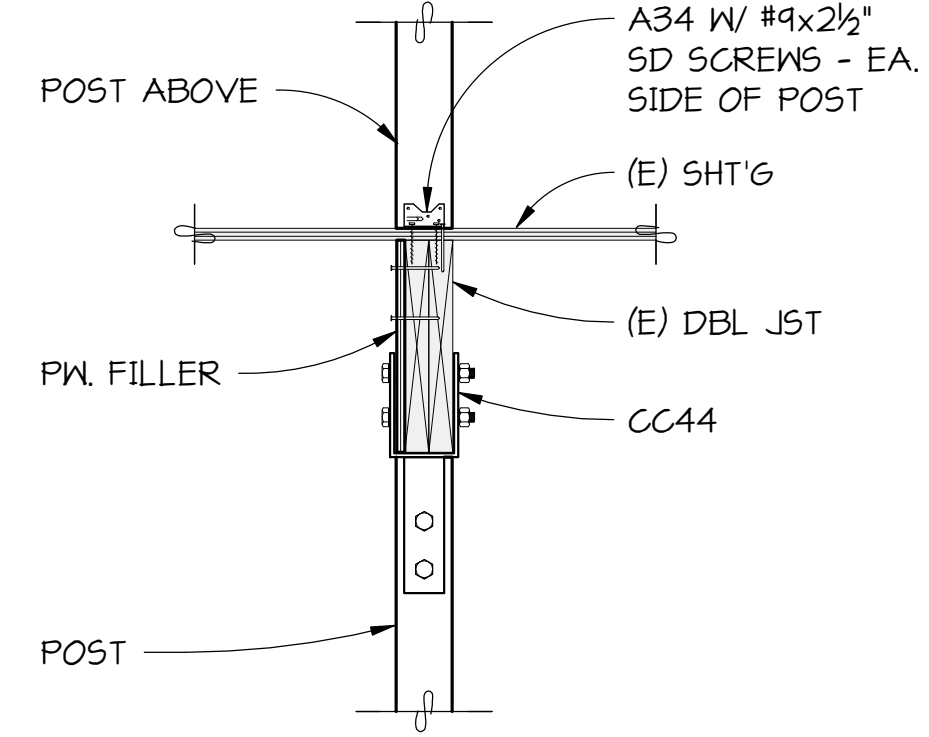
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- INDICATES WALL EXTENDING TO ROOF STRUCTURE.
- INDICATES TYPICAL HEADER IN WALL. SEE 1/52.1.



TYPICAL HOLDDOWN AT EXISTING FLOOR JOIST



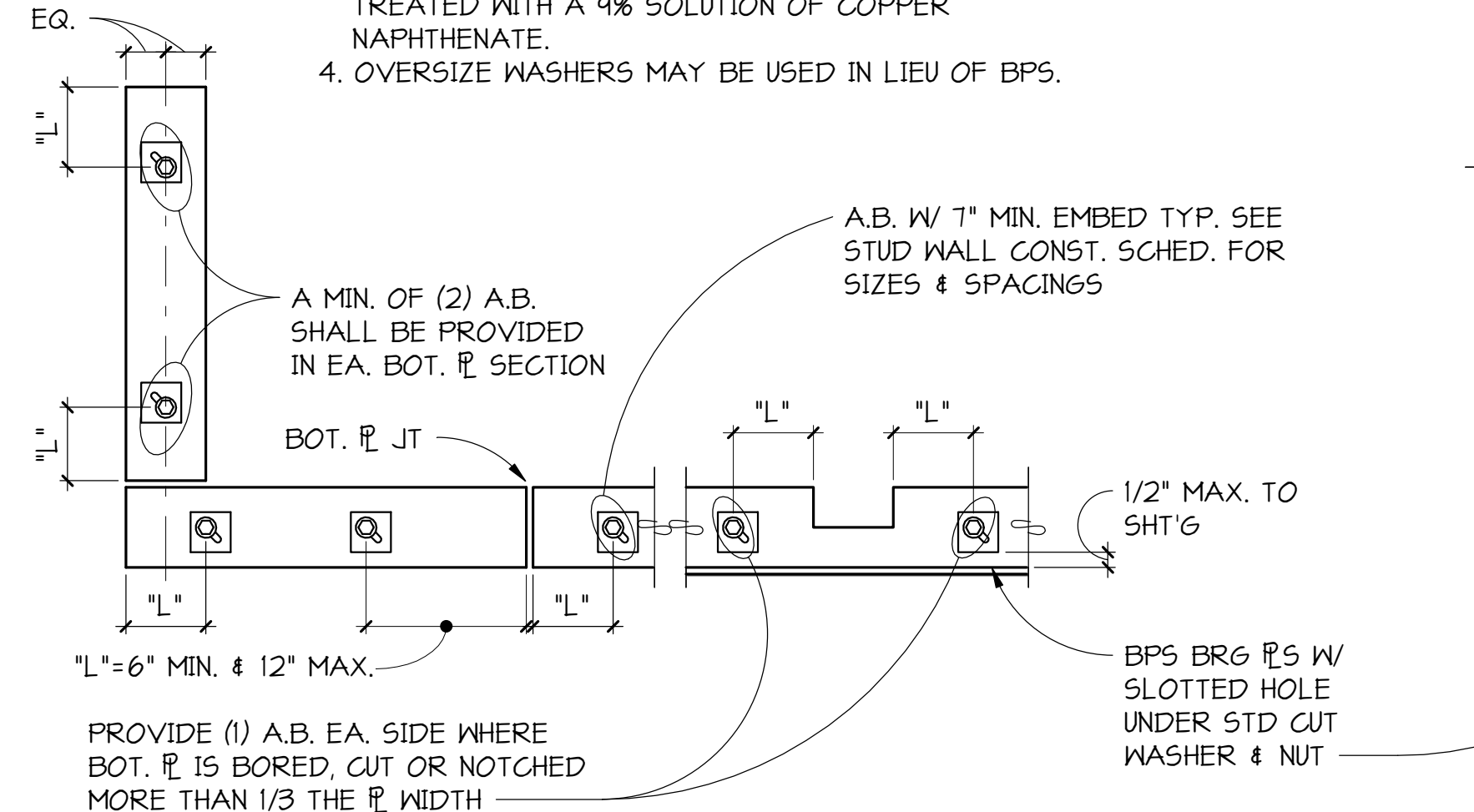
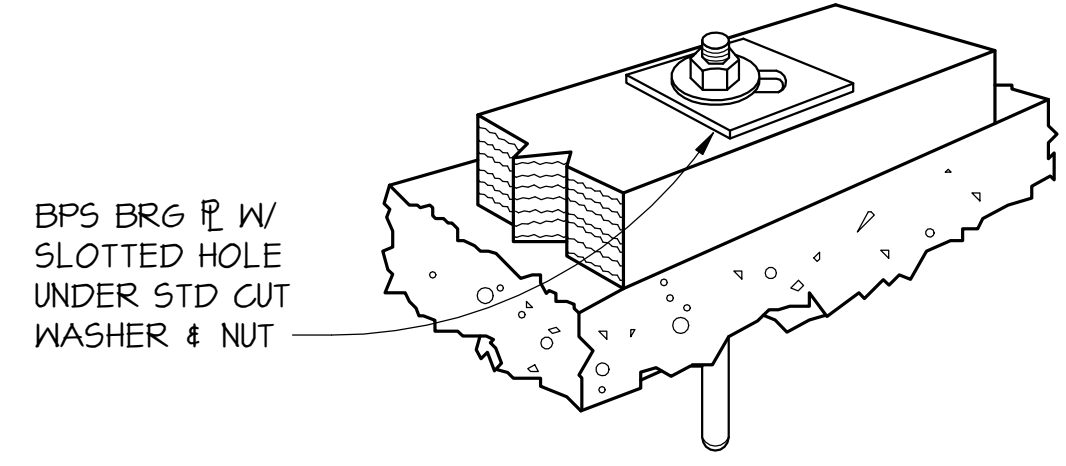
TYPICAL HOLDDOWN AT EXISTING FOUNDATION



2 SECTION
5/2.0 1" = 1'-0"

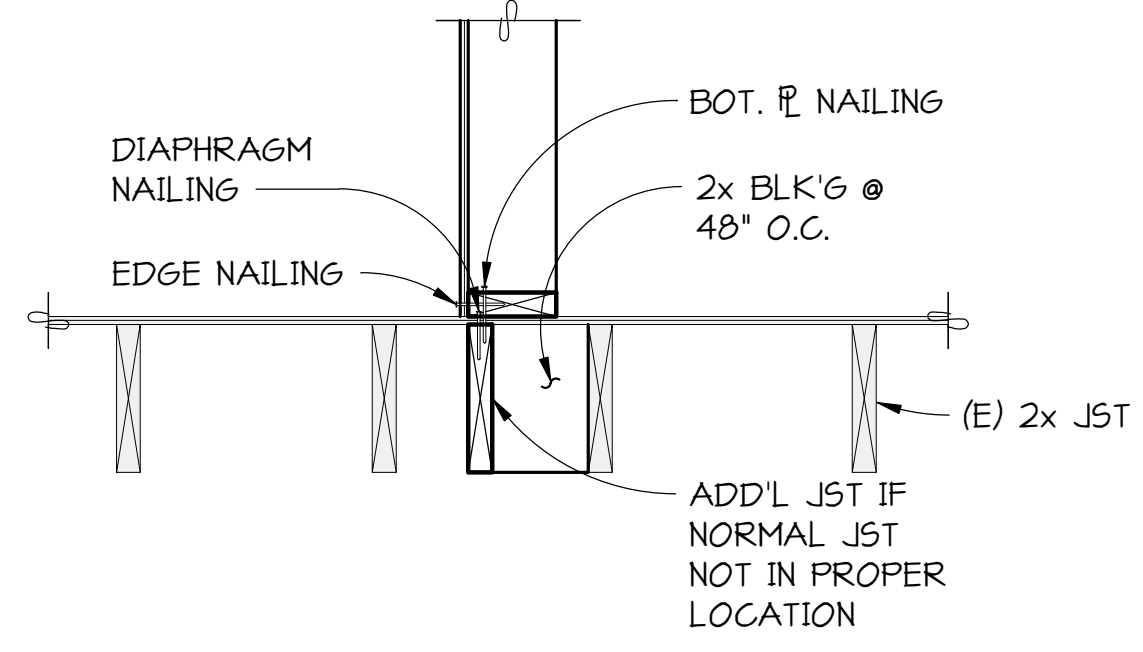
1 SECTION
5/2.0 1" = 1'-0"

- NOTES:
- BOTTOM SILL PLATE SHALL BE PRESERVATIVE PRESSURE TREATED. SEE GENERAL NOTES FOR GALVANIZED REQUIREMENTS FOR CONNECTORS AND FASTENERS.
 - HOLES IN BOTTOM PLATE SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
 - HOLES, CUTS, AND NOTCHES IN 3x OR 4x PRESERVATIVE PRESSURE PLATES SHALL BE TREATED WITH A 4% SOLUTION OF COPPER NAPHTHENATE.
 - OVERSIZE WASHERS MAY BE USED IN LIEU OF BPS.



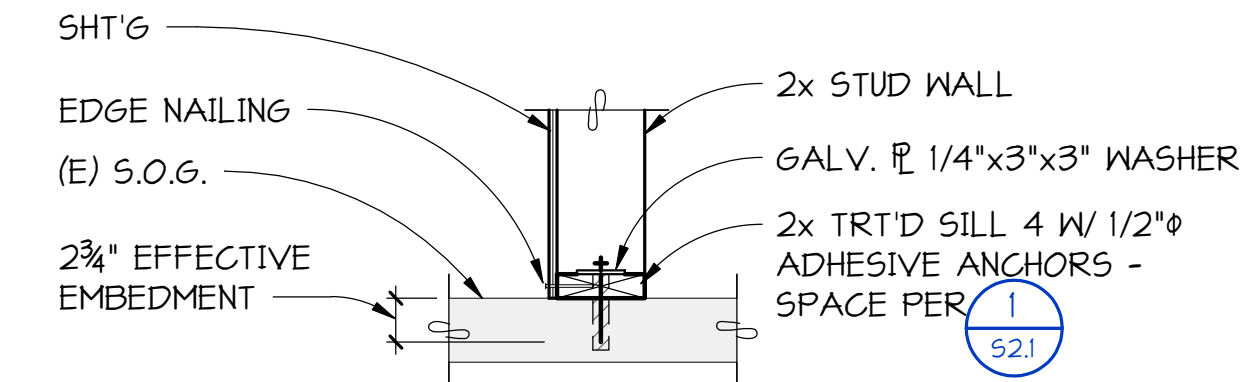
TYPICAL BOTTOM PLATE ANCHORAGE

3 DETAIL
5/2.0 NO SCALE

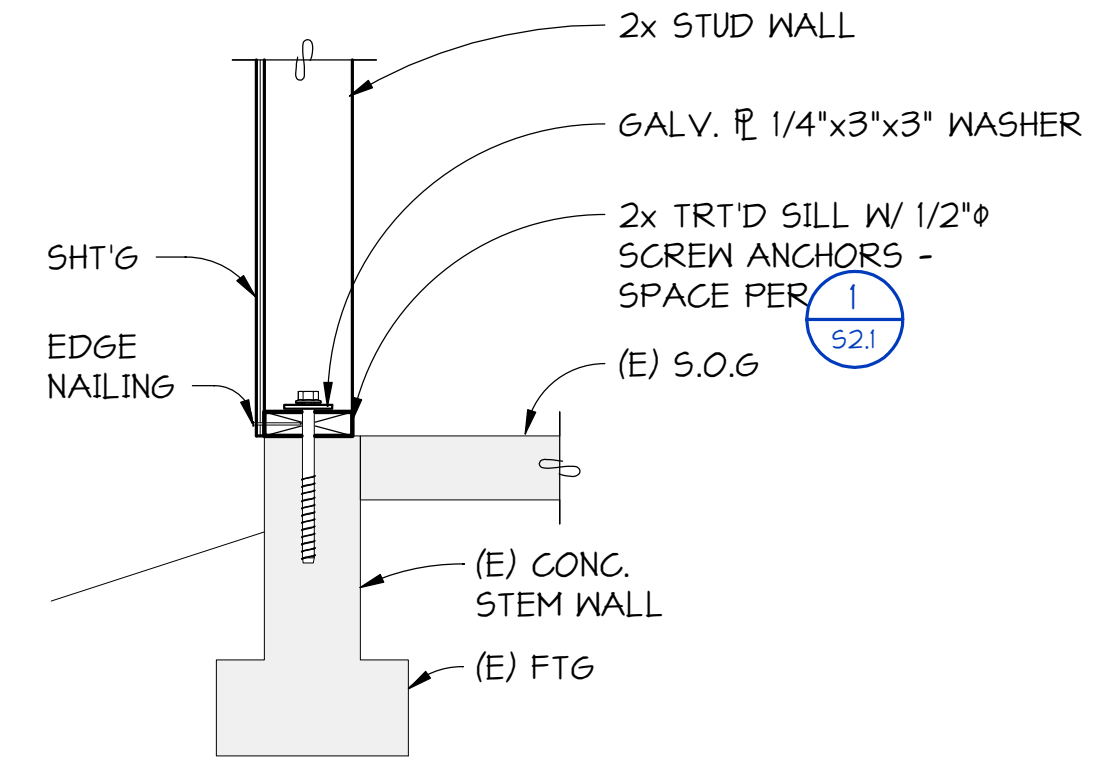


TYPICAL AT SHEAR WALL PARALLEL TO JOIST

4 SECTION
5/2.0 NO SCALE



5 SECTION
5/2.0 1" = 1'-0"



6 SECTION
5/2.0 1" = 1'-0"

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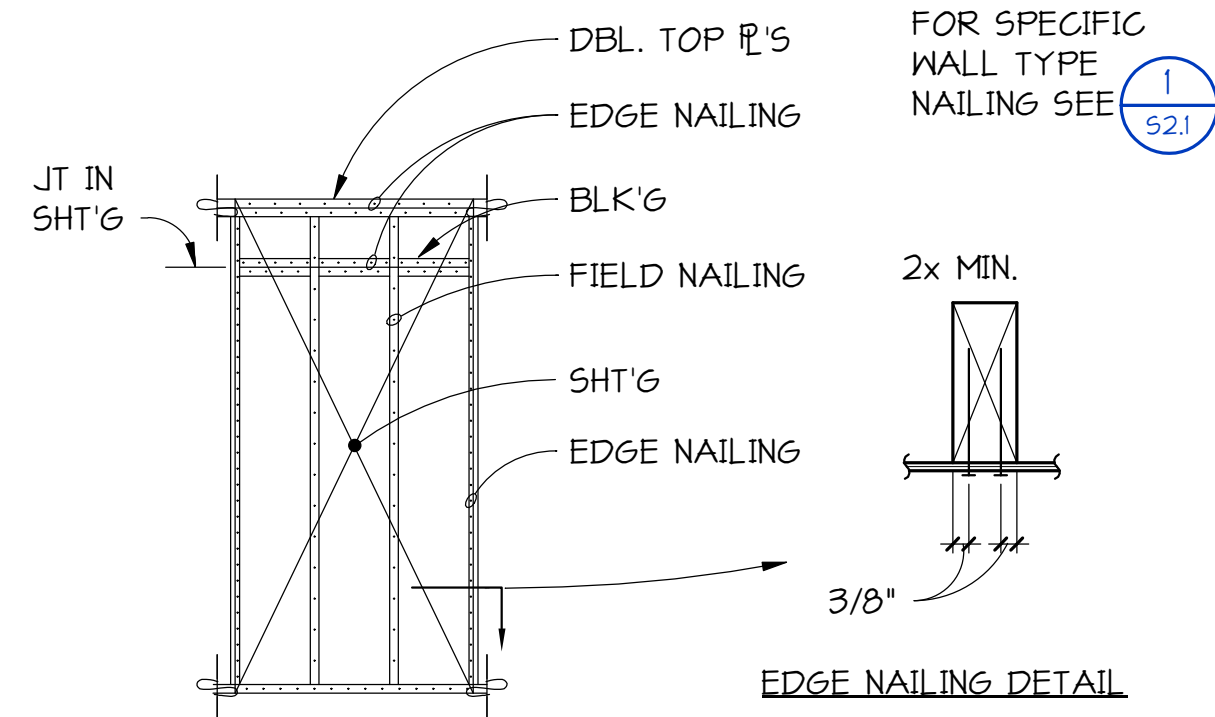
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STUD WALL CONSTRUCTION SCHEDULE										
TABLE 1 - SHEAR WALL REQUIREMENTS										
MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING NAILS NOTE 2	EDGE NAILING ON CENTER	EDGE FRAMING NOTE 5	FIELD NAILING ON CENTER	BOTTOM PLATE NOTE 6	BOTTOM PLATE NAILING	GALV. 1/2" ANCHOR BOLT SPACING NOTE 7	RIM/BLOCKING CONNECTOR TO TOP PLATE BELOW
A	15/32"	(1)	8d	6"	2x	12"	2x	16d @ 8" O.C.	32"	A35 @ 24" O.C.

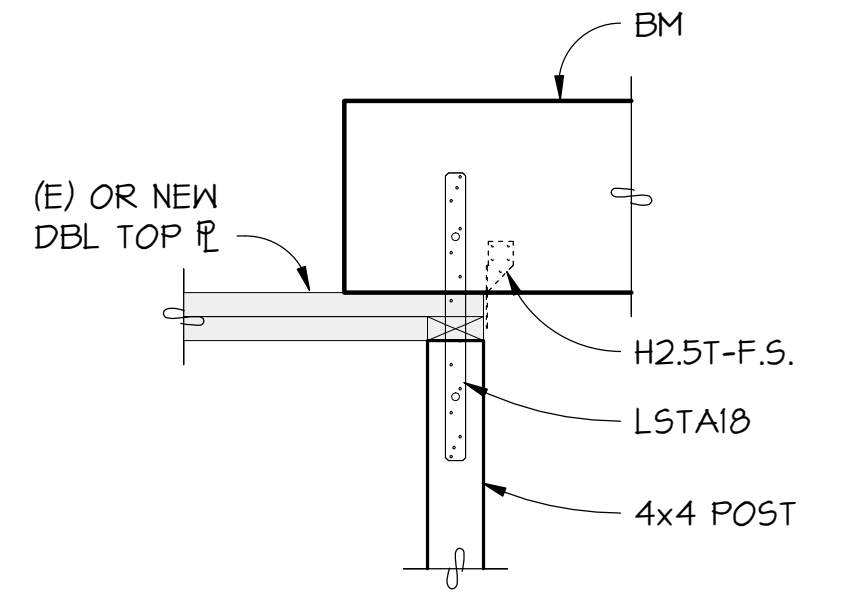
- NOTES:**
- (X) INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x4 MIN. AT 16" ON CENTER. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 8d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD. STUD SIZE SHALL MATCH EXISTING AT INFILL OR SHEATHING OVER EXISTING WALL FRAMING.
 - ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS, AND HOLDOWN ANCHORED STUDS.
 - WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 6/52.1 FOR BEAM PERPENDICULAR TO WALL.
 - SEE 7/52.1 FOR BEAM PARALLEL TO WALL.
 - PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 2/52.1 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
 - 3x BOTTOM PLATE WHERE INDICATED.
 - ALL ANCHOR BOLTS SHALL HAVE A GALVANIZED 3"x3"x1/4" PL WASHER - AT EXISTING SLAB ON GRADE PROVIDE 1/2" DIAMETER ADHESIVE ANCHORS WITH 2 3/4" EFFECTIVE EMBEDMENT - AT EXISTING STEM WALL PROVIDE 1/2" DIAMETER BY 6" HILTI Kwik-Hus EZ OR APPROVED EQUAL.



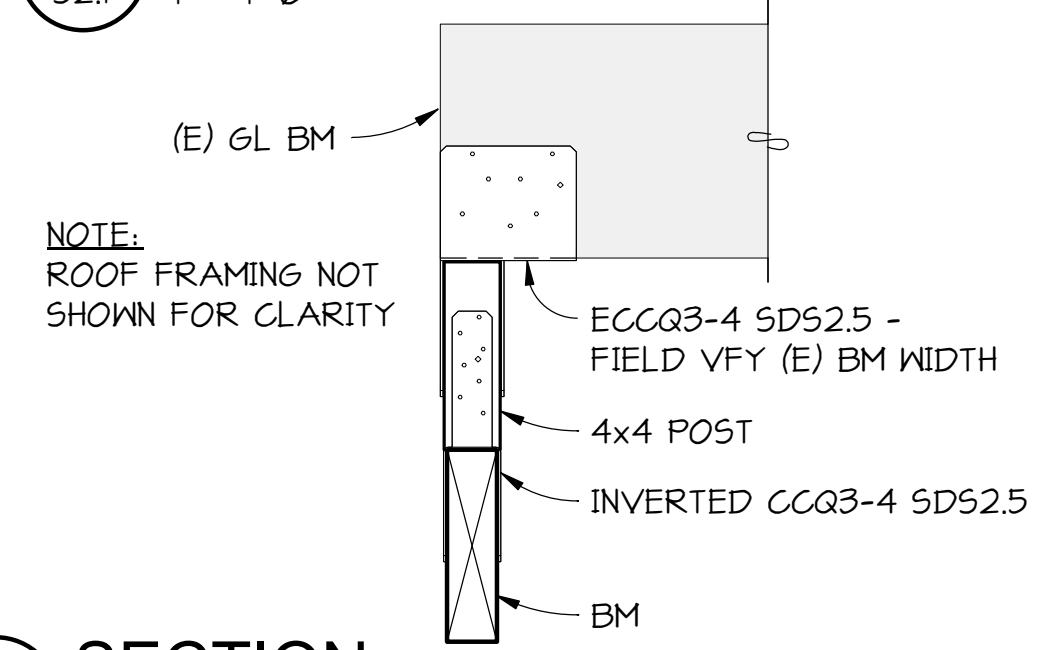
- NOTES:**
- PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
 - SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER UNLESS IT OCCURS AT A SPECIFIED DOUBLE MEMBER.
 - EDGE NAILING APPLIES TO AREAS INDICATED AND AT HOLDOWN ANCHORED STUDS.

TYPICAL SHEARWALL NAILING

NOTE:
CONNECTORS SHOWN ARE IN ADDITION TO MINIMUM NAILING
- (E) ROOF FRAMING NOT SHOWN FOR CLARITY.



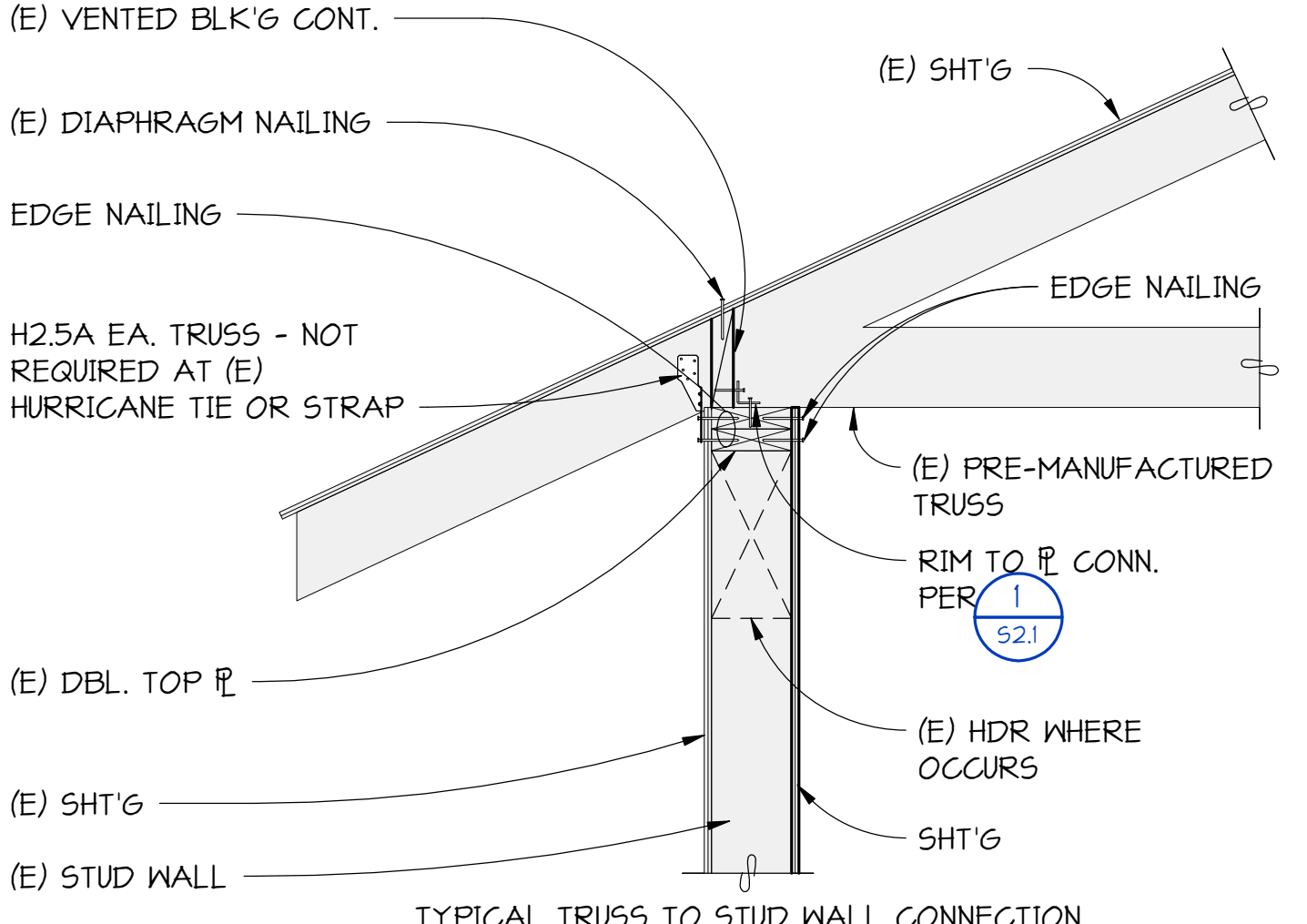
SECTION 3
1" = 1'-0"



SECTION 4
1" = 1'-0"

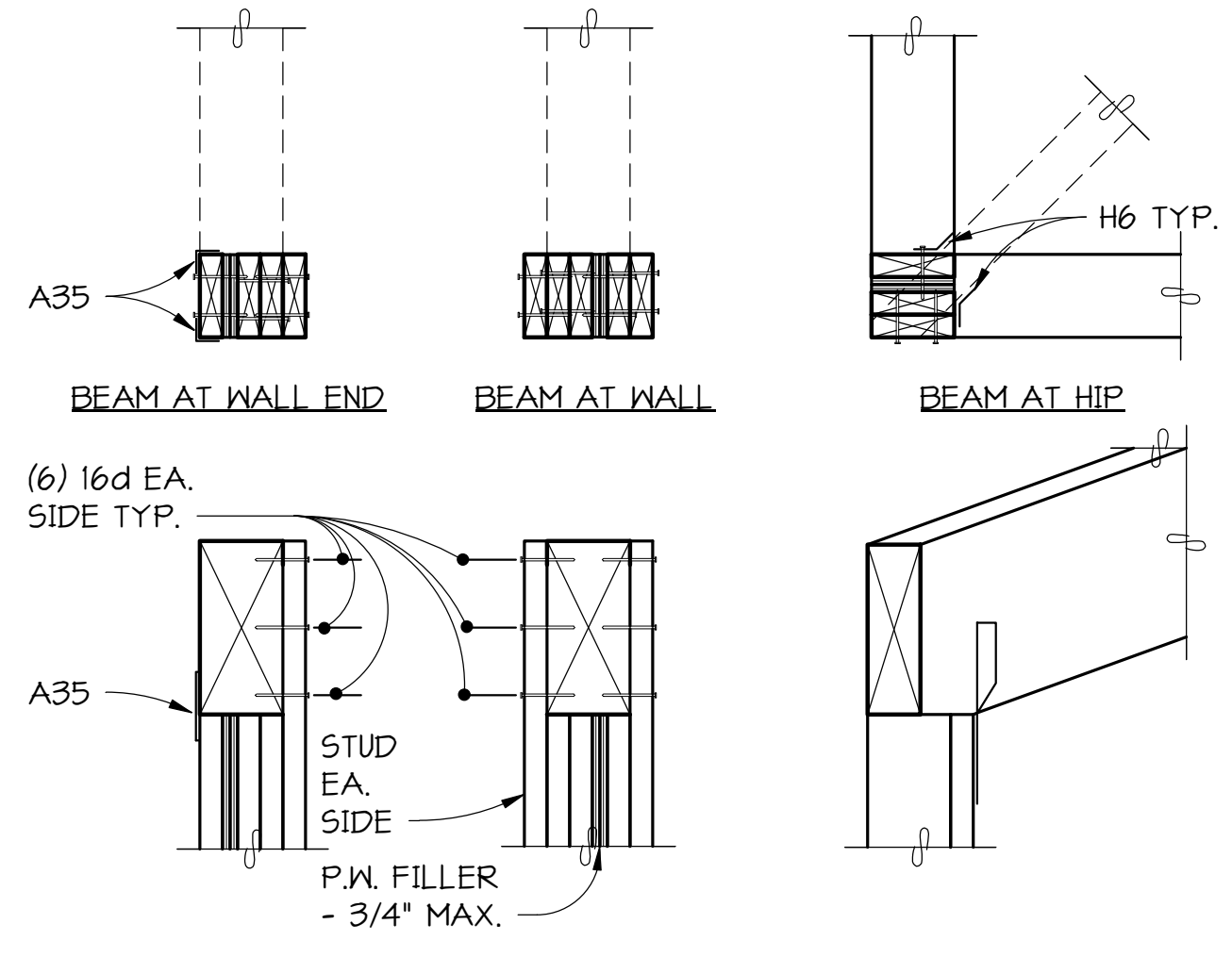
NOTE:
ROOF FRAMING NOT SHOWN FOR CLARITY

SCHEDULE 1
NO SCALE



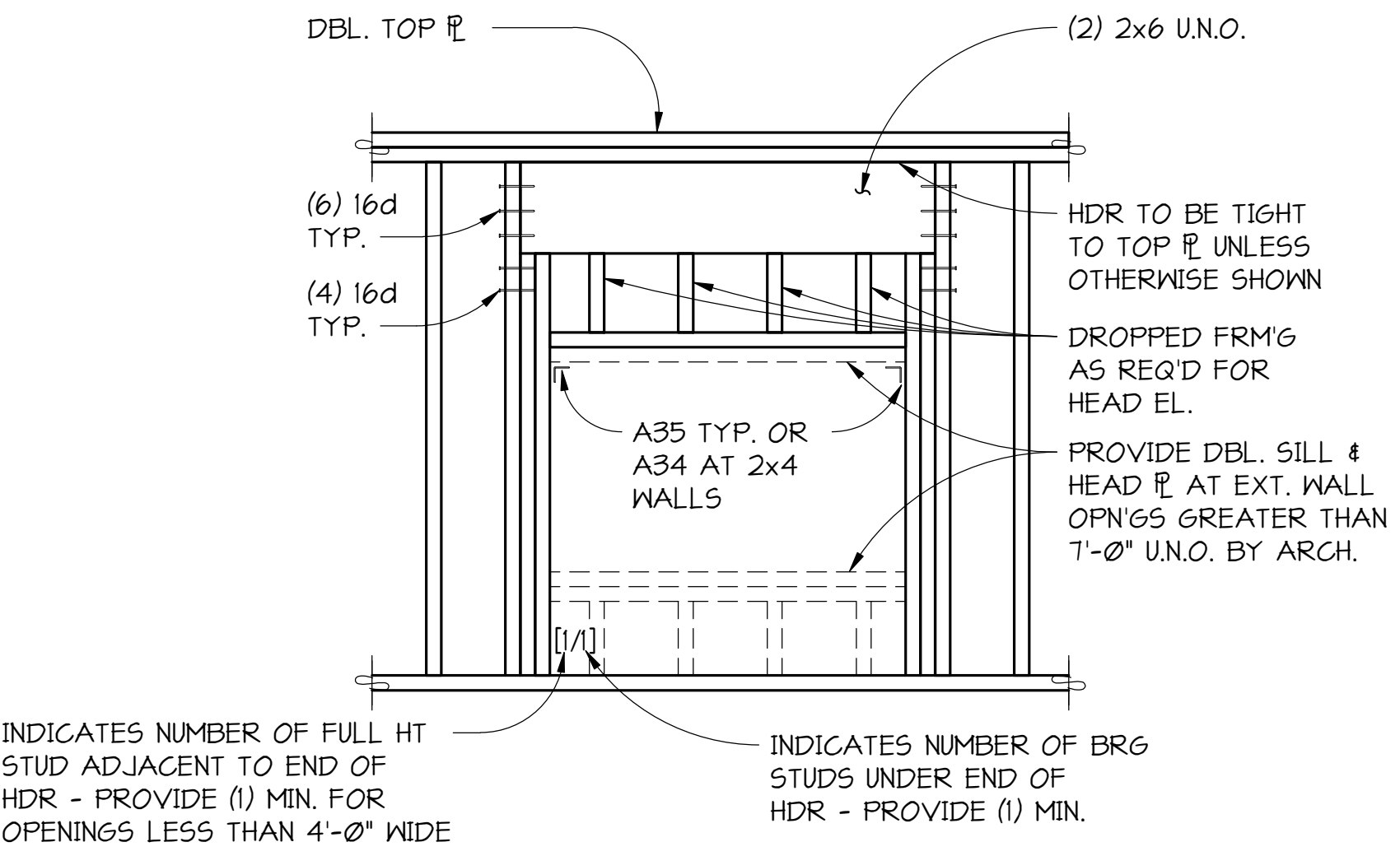
TYPICAL TRUSS TO STUD WALL CONNECTION

SCHEDULE 2
NO SCALE



TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

SECTION 4
1" = 1'-0"

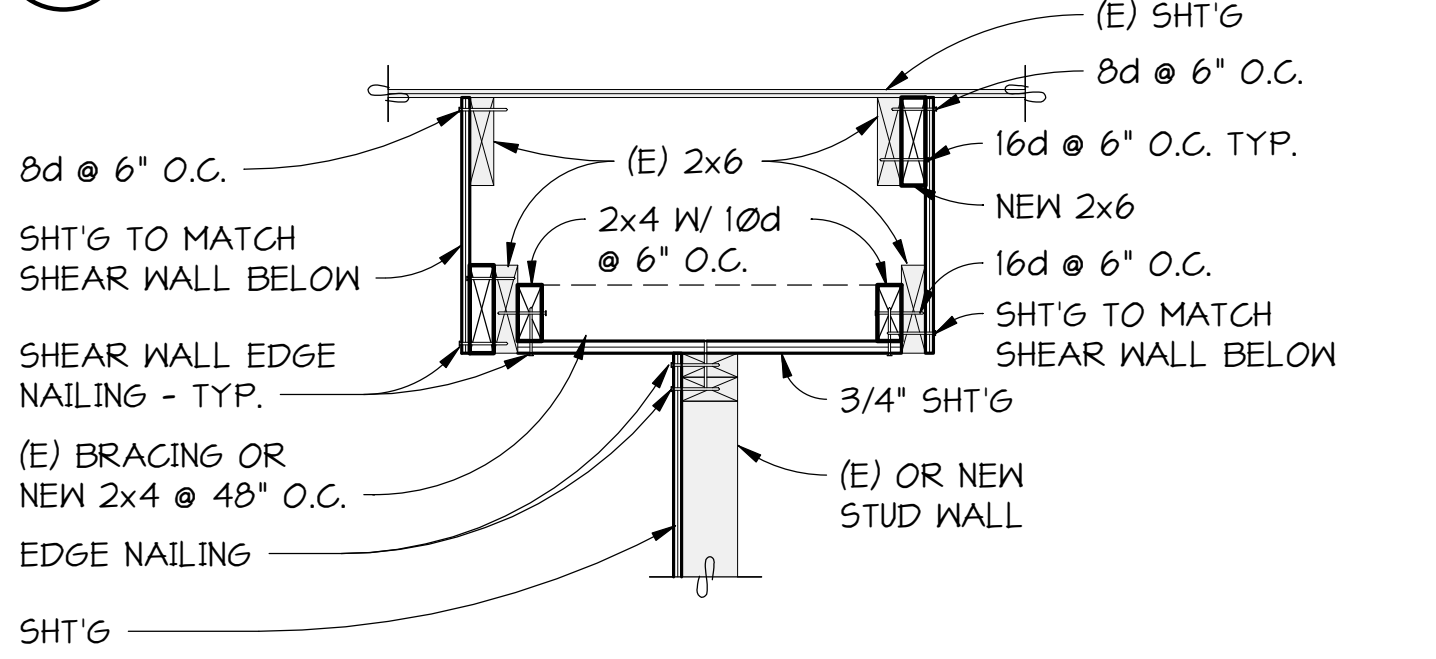


INDICATES NUMBER OF FULL HT STUD ADJACENT TO END OF HDR - PROVIDE (1) MIN. FOR OPENINGS LESS THAN 4'-0" WIDE

INDICATES NUMBER OF BRG STUDS UNDER END OF HDR - PROVIDE (1) MIN.

TYPICAL STUD WALL CONSTRUCTION AT HEADER

SECTION 5
NO SCALE



SECTION 8
1" = 1'-0"

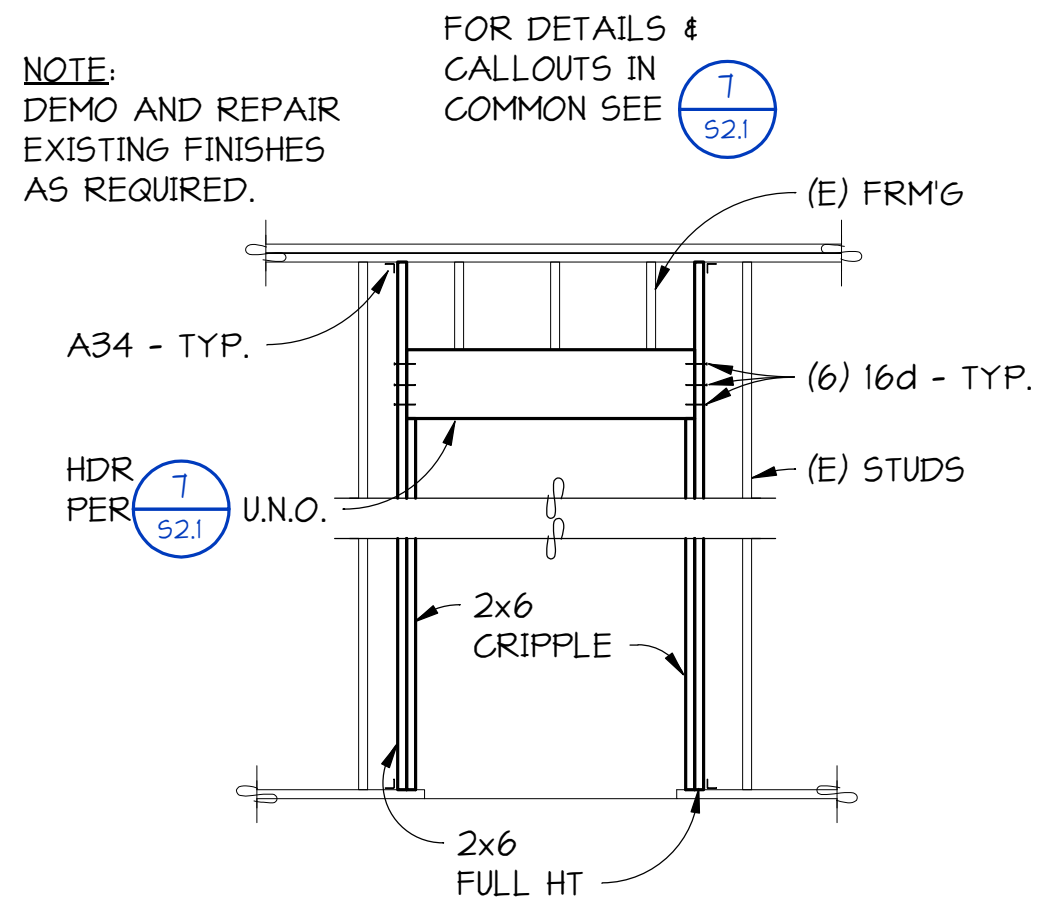
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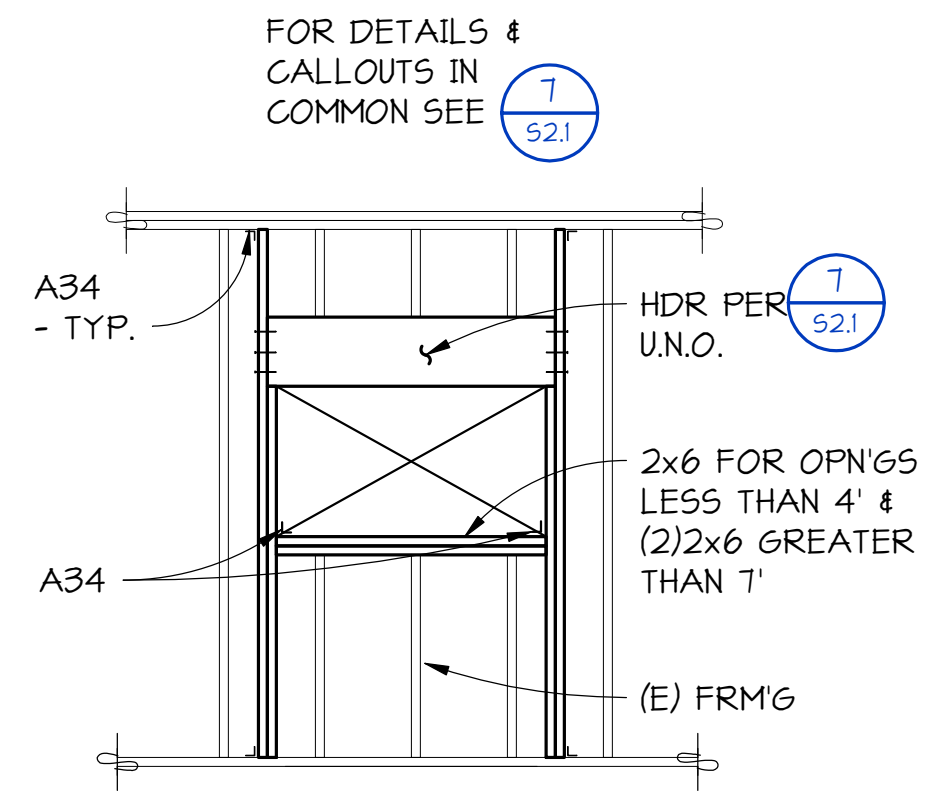
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DETAILS
S2.1



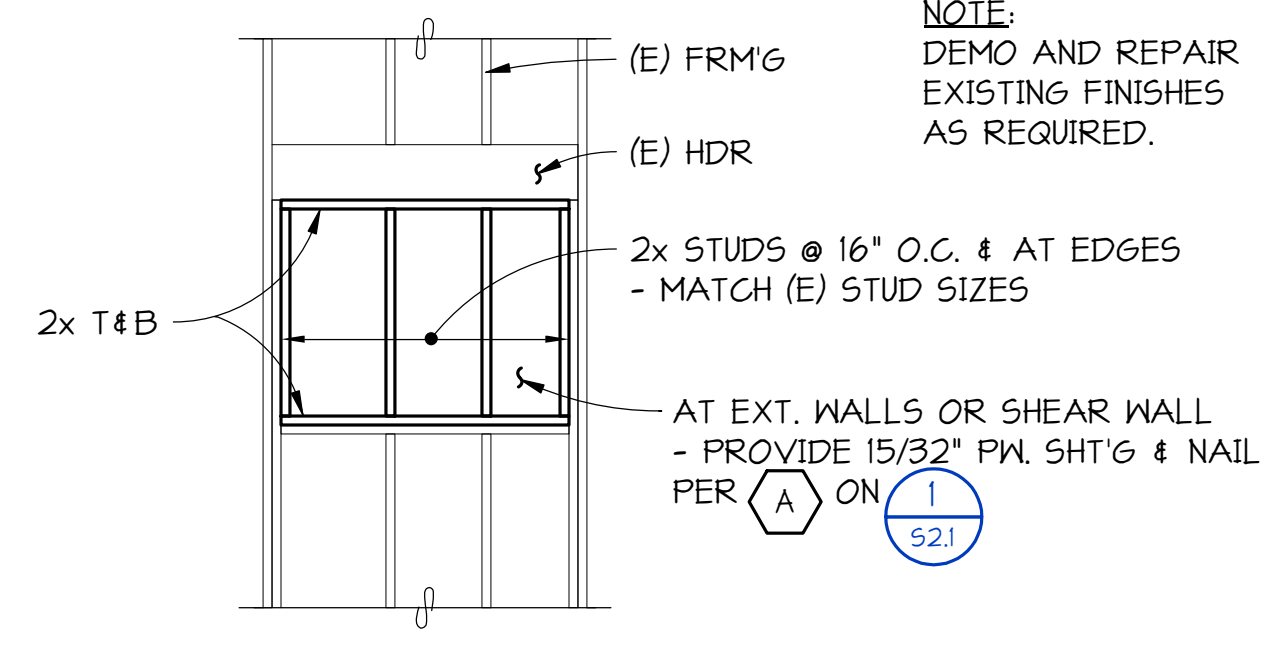
1
52.2
TYPICAL NEW DOOR OPENING IN EXISTING WALL
3/8" = 1'-0"



2
52.2
TYPICAL NEW OPENING IN EXISTING WALL
3/8" = 1'-0"

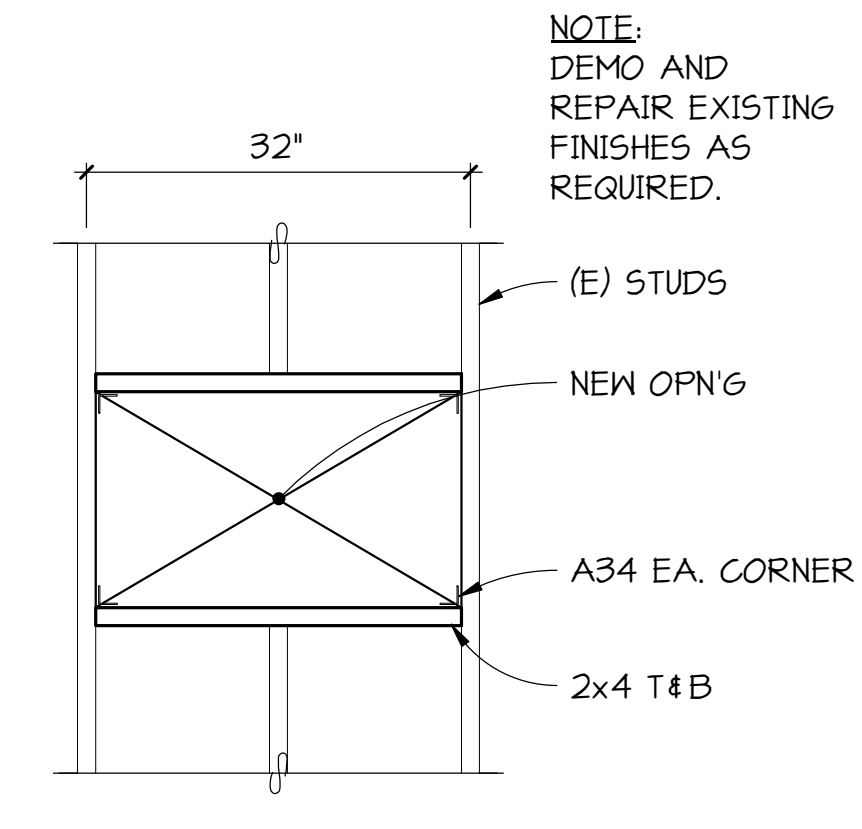
NOTES:
1. FOR DUCTS IN BEARING WALL AND OR SHEAR WALL.
2. FOR DUCTS IN NON-BEARING WALL WITH OPENING LESS THAN 32" WIDE - SEE 4/52.2.

NOTE:
DEMO AND REPAIR EXISTING FINISHES AS REQUIRED.



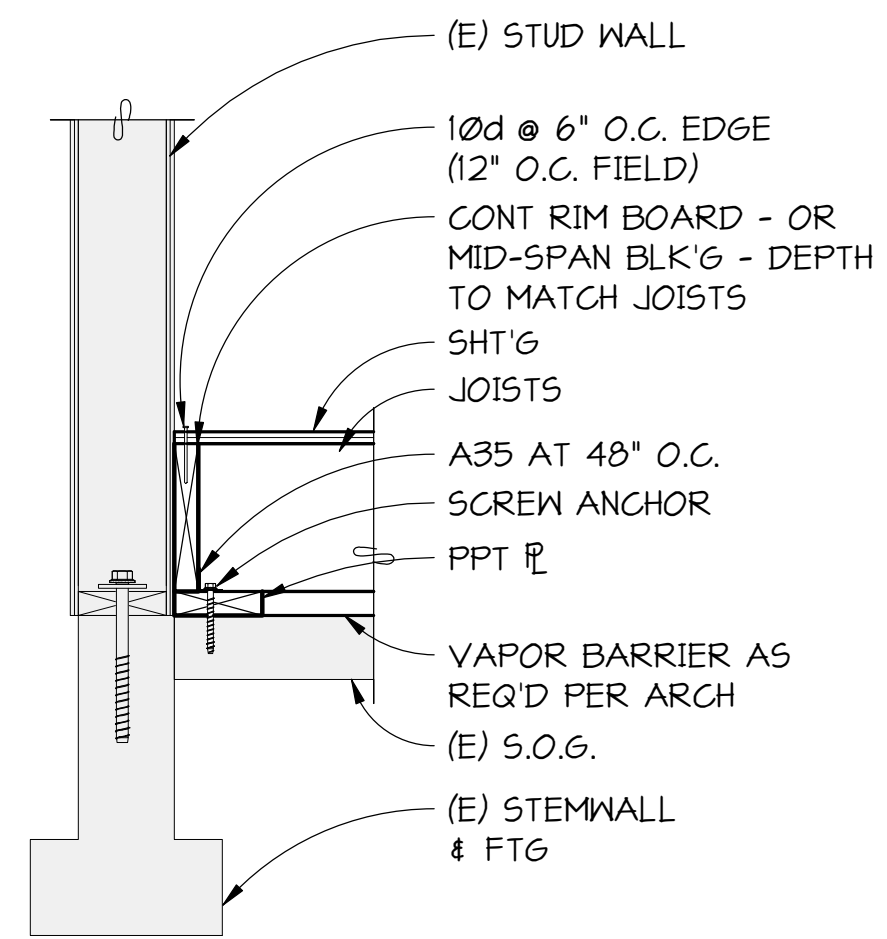
3
52.2
TYPICAL INFILL OF EXISTING OPENING
3/8" = 1'-0"

NOTE:
DEMO AND REPAIR EXISTING FINISHES AS REQUIRED.



4
52.2
TYPICAL NEW OPENING IN EXISTING NON-BEARING WALL LESS THAN 32"
3/4" = 1'-0"

NOTE:
DEMO AND REPAIR EXISTING FINISHES AS REQUIRED.



5
52.2
SECTION
1" = 1'-0"

KCHA
BURDALE
HOMES
OFFICE TI &
ENVELOPE

BID SET

930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: SSO
Checked: LAH
Date: 8/17/2023
Scale: As indicated
Revisions:
No. Date Remarks

2018 WASHINGTON STATE ENERGY CODE NOTES

1. PROVIDE RECORD DOCUMENTS IN ACCORDANCE WITH SECTION C103.6.1. PROVIDE OPERATION AND MAINTENANCE MANUALS IN ACCORDANCE WITH SECTION C103.6.2. PROVIDE THE OWNER WITH THE COMPLIANCE DOCUMENTS REQUIRED BY SECTION C103.6.3. REFER ALSO TO THE PROJECT SPECIFICATIONS FOR ALL CLOSEOUT AND RECORD DOCUMENT REQUIREMENTS. THE DRAWINGS SHALL INDICATE, AT A MINIMUM, THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, AS-BUILT CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATE, EQUIPMENT TAGS, AND FIELD VERIFIED DIMENSIONS.
2. PROVIDE OWNER TRAINING PER SECTION C103.6.4 AND AS REQUIRED BY THE PROJECT SPECIFICATIONS. OWNER TRAINING MUST TAKE PLACE BEFORE OWNER OCCUPANCY BUT CAN TAKE PLACE AFTER SUBSTANTIAL COMPLETION HAS BEEN APPROVED.
3. SEAL, GASKET, OR WEATHER STRIP ALL ACCESS DOORS AND PANELS THAT OPEN FROM CONDITIONED SPACES TO UNCONDITIONED SPACES AND PER SECTION C402.5.4.
4. PROVIDE VARIABLE SPEED DRIVES FOR ALL FAN AND PUMP MOTORS GREATER THAN OR EQUAL TO 7.5 HP PER SECTION C403.2.3.
5. HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLE C403.3.2(1)A THROUGH C403.3.2(12) OF THE WASHINGTON STATE ENERGY CODE AND AS INDICATED ON THE CONTRACT DOCUMENTS.
6. MECHANICAL SYSTEM EQUIPMENT SIZING COMPLIES WITH ENERGY CODE COMPLIANCE LIMITS SECTION C403.3.1.
7. PROVIDE EACH ZONE WITH THERMOSTATIC CONTROLS PER SECTION C403.4, AS REQUIRED BY THE PLANS, SPECIFICATIONS, AND TO FULFILL THE SEQUENCE OF OPERATIONS.
8. PROVIDE DEAD BAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.4.1.2 OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES. PROVIDE LIMIT SWITCHES PER SECTION C403.4.1.3. PROVIDE OFF HOUR CONTROLS (SETBACK, AUTOMATIC START/STOP, OFF HOUR SCHEDULING, ETC.) PER SECTION C403.4.2.
9. SIMULTANEOUS HEATING AND COOLING TO INDIVIDUAL ZONES SHALL BE PROHIBITED AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES EXCEPT AS PERMITTED BY THE WASHINGTON STATE ENERGY CODE AND APPROVED BY THE BUILDING OFFICIAL.
10. PROVIDE RELAYS AND CONTROLS CAPABLE OF DISABLING THE HEATING/COOLING, OR RESETTING THE ZONE TEMPERATURES, PER SECTION C403.4.1.6 WHERE AN OPERABLE DOOR OPEN FROM A CONDITIONED SPACE TO THE OUTDOORS.
11. THE HVAC SYSTEM AND ITS CONTROLS SHALL ALLOW ECONOMIZER OPERATION AS THE FIRST STAGE OF COOLING WHENEVER MECHANICAL COOLING IS REQUIRED. AIR AND WATER ECONOMIZERS SHALL BE CAPABLE OF PROVIDING PARTIAL COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED TO MEET THE REMAINDER OF THE COOLING LOAD. REFER TO CONTROL SEQUENCES FOR MORE INFORMATION.
12. INSULATE PIPE PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.3 AND PER TABLE C403.10.3.

TABLE C403.10.3 – MINIMUM PIPE INSULATION THICKNESS (INCHES)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU x IN/(H x FT² x F)	MEAN RATING TEMPERATURE, F	<1"	1" TO < 1-1/2"	1-1/2" TO < 4"	4" TO <8"	≥8"
>350	0.32–0.34	250	4.5	5.0	5.0	5.0	5.0
251–350	0.29–0.32	200	3.0	4.0	4.5	4.5	4.5
201–250	0.27–0.30	150	2.5	2.5	2.5	3.0	3.0
141–200	0.25–0.29	125	1.5	1.5	2.0	2.0	2.0
105–140	0.21–0.28	100	1.0	1.0	1.5	1.5	1.5
40–60	0.21–0.27	75	0.5	0.5	1.0	1.0	1.0
<40	0.20–0.26	75	0.5	1.0	1.0	1.0	1.5

NOTE: REFER TO 2018 WSEC FOR TABLE FOOTNOTES.

13. INSULATE ALL DUCT WORK PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.1 AND PER TABLE C403.10.1.1 AND C403.10.1.2.

TABLE C403.10.1.1 – OUTDOOR AIR DUCTWORK INSULATION

DUCT SYSTEM	DUCT LOCATION AND USE	CLIMATE ZONE	AIRFLOW	MINIMUM INSTALLED DUCT INSULATION R-VALUE
OUTDOOR AIR	INSIDE CONDITIONED SPACE AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER	4C AND 5B	≥2800 CFM	R–16
OUTDOOR AIR	INSIDE CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER TO HVAC UNIT OR ROOM	4C	≥2800 CFM	R–8
OUTDOOR AIR	INSIDE CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER TO HVAC UNIT OR ROOM	5B	≥2800 CFM	R–12
OUTDOOR AIR	INSIDE CONDITIONED SPACE	4C AND 5B	<2800 CFM	R–7

NOTE: REFER TO 2018 WSEC FOR TABLE FOOTNOTES.

TABLE C403.10.1.2 – SUPPLY, RETURN AND RELIEF AIR DUCTWORK INSULATION

DUCT SYSTEM	DUCT LOCATION AND USE	CLIMATE ZONE	R-VALUE
SUPPLY AIR OR RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER)	4C	R–8
SUPPLY AIR OR RETURN AIR	OUTSIDE THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER)	5B	R–12
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE (ENCLOSED BUT NOT IN THE BUILDING CONDITIONED ENVELOPE)	4C AND 5B	R–6
SUPPLY AIR OR RETURN AIR	UNCONDITIONED SPACE WHERE THE DUCT CONVEYS AIR THAT IS WITHIN 15F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE	4C AND 5B	R–3.3
SUPPLY AIR OR RETURN AIR	WHERE LOCATED IN A BUILDING ENVELOPE ASSEMBLY	4C AND 5B	R–16
SUPPLY AIR	WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55F OR GREATER THAN 105F	4C AND 5B	R–3.3
SUPPLY AIR	WITHIN CONDITIONED SPACE THAT THE DUCT DIRECTLY SERVES WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55F OR GREATER THAN 105F	4C AND 5B	NONE
SUPPLY AIR	WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS 55F OR GREATER AND 105F OR LESS	4C AND 5B	NONE
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	4C	R–8
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	5B	R–12
RETURN OR EXHAUST AIR	CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	4C AND 5B	R–16

NOTE: REFER TO 2018 WSEC FOR TABLE FOOTNOTES.

14. ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.10.2. DUCT TAPE NOT ALLOWED.

15. DUCTWORK STATIC PRESSURE CLASSES:

DUCTWORK PRESSURE CLASSES	
PRESSURE CLASS	WATER COLUMN OF ASSOCIATED EQUIPMENT
"LOW PRESSURE"	UP TO 2 INCHES
"MEDIUM PRESSURE"	GREATER THAN 2 INCHES TO LESS THAN 3 INCHES
HIGH PRESSURE"	3 INCHES AND ABOVE

16. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2.1 AND C408.2.2.2 AND AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE ALL BALANCING DEVICES NEEDED TO ADJUST EQUIPMENT TO THE DESIGN FLOW VALUES INDICATED ON THE PLANS AND SCHEDULES.

17. PROVIDE ISOLATION VALVES FOR ALL EQUIPMENT CONNECTED TO FLUID PIPING.

18. HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2. CONTRACTOR SHALL HIRE A BALANCE SPECIALIST AND PROVIDE RESOURCES TO SUPPORT THE REQUIRED BALANCING ACTIVITIES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

19. CONTRACTOR SHALL PROVIDE COMMISSIONING AND REPORT OF COMMISSIONING SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS AND ACCEPTANCE. SUBMIT COMMISSIONING COMPLIANCE CHECKLIST TO BUILDING OFFICIAL UPON COMPLETION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

20. PROVIDE CLASS I MOTORIZED SHUTOFF DAMPERS AT ALL LOCATIONS REQUIRED BY SECTION C403.7.8.1.

21. DAMPERS SHALL COMPLY WITH SECTION C403.7.8.3, INCLUDING DAMPERS INTEGRAL TO HVAC EQUIPMENT, AND SHALL HAVE A MAXIMUM LEAKAGE RATE WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500D OF (AT 1.0 INCH W.G.):
 MOTORIZED DAMPERS: 4 CFM/FT² OF DAMPER AREA.
 NON–MOTORIZED DAMPERS: 20 CFM/FT² OF DAMPER AREA.
 NON–MOTORIZED DAMPERS SMALLER THAN 24 INCHES IN EITHER DIMENSION: 40 CFM/FT² OF DAMPER AREA.

22. ALL DUCT SYSTEMS SHALL BE SEALED TO A LEAKAGE RATE NOT TO EXCEED 4 PERCENT OF THE FAN FLOW IF THE DUCT SYSTEM: IS CONNECTED TO A HIGH–PRESSURE OR MEDIUM–PRESSURE PIECE OF AIR MOVING EQUIPMENT; OR HAS ANY DUCT SURFACE AREA LOCATED IN ANY UNCONDITIONED SPACE. THE LEAKAGE RATE SHALL BE CONFIRMED THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING, IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.

2018 WASHINGTON STATE MECHANICAL CODE (IMC AMENDMENTS) NOTES

1. ALL EQUIPMENT SHALL BE PROVIDED WITH PERMANENT FACTORY APPLIED NAMEPLATES PER SECTION 301.9. REFER TO SPECIFICATIONS FOR PROJECT SPECIFIC LABELING REQUIREMENTS.
2. ALL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 303 WHEN INSTALLED IN A LOCATION NOT AS SHOWN ON THE DESIGN PLANS.
3. ALL PIPING SHALL BE SUPPORTED PER TABLE 305.4.

TABLE 305.4 – PIPING SUPPORT SPACING*

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FT)	MAXIMUM VERTICAL SPACING (FT)
ABS PIPE	4	10 ^o
ALUMINUM PIPE AND TUBING	10	15
CAST IRON PIPE ^b	5	15
COPPER OR COPPER–ALLOY PIPE	12	10
COPPER OR COPPER–ALLOY TUBING	8	10
CPVC PIPE OR TUBING, 1 INCH AND SMALLER	3	10 ^o
CPVC PIPE OR TUBING, 1 1/4 INCHES AND LARGER	4	10 ^o
LEAD PIPE	CONTINUOUS	4
PB PIPE OR TUBING	2–2/3 (32 INCHES)	4
PE–RT 1 INCH AND SMALLER	2–2/3 (32 INCHES)	10 ^o
PE–RT 1 1/4 INCHES AND LARGER	4	10 ^o
PEX TUBING 1 INCH AND SMALLER	2–2/3 (32 INCHES)	10 ^o
PEX TUBING 1 1/4 INCHES AND LARGER	4	10 ^o
POLYPROPYLENE (PP) PIPE OR TUBING, 1 INCH AND SMALLER	2–2/3 (32 INCHES)	10 ^o
POLYPROPYLENE (PP) PIPE OR TUBING, 1 1/4 INCHES AND LARGER	4	10 ^o
PVC PIPE	4	10 ^o
STEEL TUBING	8	10
STEEL PIPE	12	15

TABLE FOOTNOTES:

- SEE SECTION 301.18.
- THE MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10 FT. WHERE 10–FOOT LENGTHS OF PIPE ARE INSTALLED.
- MID–STORY GUIDE.

4. PROVIDE EQUIPMENT WITH SERVICE AND INSTALLATION CLEARANCES PER MANUFACTURER’S WRITTEN INSTRUCTIONS. ALL EQUIPMENT SHALL BE INSTALLED WITH A LEVEL WORKING SPACE NOT LESS THAN 30 INCH BY 30 INCH ON THE MAINTENANCE SIDE OF THE EQUIPMENT PER SECTION 306.1 WHERE SMALLER AREAS ARE NOTED BY THE MANUFACTURER’S GUIDES.
5. ROUTE ALL CONDENSATE PIPING PER PLAN AND AT SIZE SHOWN ON PLAN. WHERE NOT SHOWN ON PLAN, CONDENSATE SHALL BE ROUTED TO THE NEAREST FIXTURE TAILPIECE AND SHALL BE SIZED PER TABLE 307.2.2. WHERE OVERFLOW OF THE PRIMARY CONDENSATE MAY CAUSE DAMAGE TO BUILDING COMPONENTS, PROVIDE AN AUXILIARY AND SECONDARY DRAIN SYSTEM PER SECTION 307.2.3.

TABLE 307.2.2 – CONDENSATE DRAIN SIZING

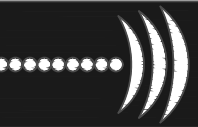
EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS OF REFRIGERATION	3/4 INCH
OVER 20 TONS TO 40 TONS OF REFRIGERATION	1 INCH
OVER 40 TONS TO 90 TONS OF REFRIGERATION	1–1/4 INCH
OVER 90 TONS TO 125 TONS OF REFRIGERATION	1–1/2 INCH
OVER 125 TONS TO 250 TONS OF REFRIGERATION	2 INCH

6. PROVIDE ALL CONDENSATE LINES WITH TRAPS PER SECTION 307.2.4. DUCTLESS SPLIT SYSTEMS SHALL BE PROVIDED WITH AN INLINE CHECK VALVE PER SECTION 307.2.4.1. CONSULT THE MANUFACTURER’S WRITTEN INSTRUCTIONS FOR INSTALLATION OF TRAPS ON EQUIPMENT CONDENSATE DRAINS.
7. MAINTAIN CLEARANCE TO/FROM OUTSIDE AIR INTAKES PER SECTION 401.4.
8. MAINTAIN CLEARANCE TO/FROM EXHAUST AIR OPENINGS PER SECTION 501.3.1.
9. ALL EQUIPMENT LOCATED IN PLENUMS SHALL BE RATED FOR USE IN PLENUMS.

SHKS ARCHITECTS

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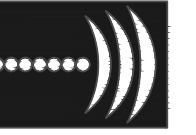
KCHA BURNDALE HOMES OFFICE TI & ENVELOPE

BID SET

930 18TH PLACE NE AUBURN, WA 98002

Drawn by: JA/JZ
Checked: RF
Date: 8/17/2023
Scale: AS NOTED
Revisions:
No. Date Remarks

MECHANICAL NOTES
M0.2



ENERGY RECOVERY VENTILATOR SCHEDULE

BASIS OF DESIGN			SUPPLY DATA				EXHAUST DATA				ENERGY RECOVERY DATA				ELECTRICAL DATA			PHYSICAL DATA				NOTES		
TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	ESP (IN W.C.)	MOTOR TYPE	POWER (HP)	FILTER EFF.	AIRFLOW (CFM)	ESP (IN W.C.)	MOTOR TYPE	POWER (HP)	FILTER EFF.	MODEL	TYPE	SENS. EFF.	TOT. EFF.	MCA	MOCP	VOLT/PH	LENGTH	WIDTH		HEIGHT	WEIGHT (LBS)
HRV-1	RENEWAIRE	HE1XINH	835	0.8	ECM - DIRECT	1/2	MERV-8	835	0.8	ECM - DIRECT	1/2	MERV-8	L125-G5	FIXED-PLATE	69%	62%	10.8	15.0	230VAC/1PH	4' - 8 3/4"	1' - 9 3/4"	3' - 2 3/8"	278	1 - 6

NOTES:
 1. PROVIDE WITH OPTION FOR FACTORY SUPPLIED INTEGRAL FACE AND BYPASS DAMPERS FOR ECONOMIZER FUNCTIONALITY.
 2. FACTORY STANDARD 24 VAC TRANSFORMER/RELAY PACKAGE. PROVIDE POWER AND CONTROLS CONNECTION TO MOTORIZED DAMPERS MD-ERV-OA, AND MD-ERV-EXH.
 3. FACTORY STANDARD DRY-BULB TEMPERATURE CONTROLS PACKAGE FOR INTEGRAL BYPASS DAMPER.
 4. FACTORY STANDARD CROSS-CORE DIFFERENTIAL PRESSURE PORTS.
 5. FACTORY STANDARD NON-FUSED DISCONNECT.
 6. FACTORY STANDARD INTEGRATED CONTROLS WITH INDIVIDUAL FAN MODULATING CAPABILITIES.

2018 WSMC VENTILATION SCHEDULE

SPACE DATA			PRESCRIPTIVE REQUIREMENTS								CODE REQ.		DESIGN		SERVICE		NOTES
TAG	NAME	2018 WSMC OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	OCC. DENSITY (#/1000SF)	CODE OCC. (#)	DESIGN OCC. (#)	OCC.-OA RATE (CFM/#)	AREA-OA RATE (CFM/SF)	AREA-EA RATE (CFM/SF)	FYT-EA RATE (CFM/#)	OA (CFM)	EXH (CFM)	OA (CFM)	EXH (CFM)	OA SYSTEM	EXH SYSTEM	
101	MAINTENANCE	STORAGE - WAREHOUSES	310	--	--	--	--	0.06	--	--	19	0	75	25	HRV-1	HRV-1	
102	GARAGE	STORAGE - REPAIR GARAGES	295	--	--	--	--	0.75	--	--	0	220	300	220	HRV-1	HRV-1	
103	MECH	--	45	--	--	--	--	--	--	--	0	0	0	80	HRV-1	HRV-1	4
104	RESTROOM 1	PUBLIC SPACES - TOILET ROOMS	70	--	--	--	--	--	--	50	0	50	0	50	HRV-1	HRV-1	5
105	CONFERENCE	OFFICES - CONFERENCE ROOM	210	50	11	8	5	0.06	--	--	53	0	55	55	HRV-1	HRV-1	2
106	OFFICE	OFFICES - OFFICE SPACES	120	5	1	1	5	0.06	--	--	12	0	15	15	HRV-1	HRV-1	
107	RESTROOM 2	PUBLIC SPACES - TOILET ROOMS	85	--	--	--	--	--	--	50	0	50	50	50	HRV-1	HRV-1	5
108	RESTROOM 3	PUBLIC SPACES - TOILET ROOMS	35	--	--	--	--	--	--	50	0	50	50	50	HRV-1	HRV-1	5
109	COPY	WORKROOMS - COPY, PRINTING ROOMS	40	4	1	1	5	0.06	0.5	--	7	20	20	20	HRV-1	HRV-1	
110	CORRIDOR	PUBLIC SPACES - NON-GROUP R CORRIDOR	260	--	--	--	--	0.06	--	--	16	0	20	20	HRV-1	HRV-1	
111	MEETING	OFFICES - CONFERENCE ROOM	145	50	7	4	5	0.06	--	--	29	0	30	30	HRV-1	HRV-1	2
112	RECEPTION	OFFICES - RECEPTION AREAS	185	30	6	3	5	0.06	--	--	26	0	30	30	HRV-1	HRV-1	
113	OFFICE	OFFICE - OFFICE SPACES	1105	5	6	15	5	0.06	--	--	141	0	150	150	HRV-1	HRV-1	3
114	BREAK	OFFICES - KITCHENETTES	210	25	5	6	5	0.06	0.3	--	43	0	45	205	HRV-1	HRV-1	1, 2
115	STORAGE	--	65	--	--	--	--	--	--	--	0	0	0	0	HRV-1	HRV-1	4
TOTALS:			3180		36	38					345	390	840	1000			

NOTES:
 1. KITCHENETTE CONTAINS A DOMESTIC COOKING RANGE, USED FOR BOILING, STEAMING, AND RE-HEATING. A DOMESTIC RANGE HOOD (160 CFM) WITH MANUAL TIMED WALL-SWITCH IS PROVIDED, AS WELL AS GENERAL EXHAUST (45 CFM).
 2. SPACE HAS LESS THAN 500 SQUARE FEET OF FLOOR AREA. DEMAND CONTROL VENTILATION IS NOT REQUIRED PER 2018 WSEC SECTION C403.7.1.
 3. SPACE HAS AN OCCUPANCY DENSITY OF LESS THAN 25 OCCUPANTS PER 1,000 SQUARE FEET. DEMAND CONTROL VENTILATION IS NOT REQUIRED PER 2018 WSEC SECTION C403.7.1.
 4. SPACE IS A SMALL CLOSET WITH NO CONTINUOUS OCCUPANCY. NO OUTSIDE AIR VENTILATION IS PROVIDED.
 5. SPACE IS CONTINUOUSLY EXHAUSTED WHILE OCCUPIED. LOWER EXHAUST AIRFLOW RATE USED PER FOOTNOTE E OF 2018 WSMC TABLE 403.3.1.1.

LOUVER SCHEDULE

BASIS OF DESIGN				OPERATING DATA				PHYSICAL DATA				NOTES	
TAG	SERVICE	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	FREE AREA (SF)	FREE AREA VEL. (FPM)	PRESS. DROP (IN W.C.)	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)		WEIGHT (LBS)
L-ERV-OA	ERV-1 OA INTAKE	RUSKIN	ELF15J	ALUMINUM, STATIONARY, NON-DRAINABLE	840	2.85	294.7	0.02	36	24	1.5	15	1, 2, 3, 4, 5
L-ERV-EXH	ERV-1 EXHAUST	RUSKIN	ELF15J	ALUMINUM, STATIONARY, NON-DRAINABLE	840	2.85	294.7	0.02	36	24	1.5	15	1, 2, 3, 4, 5
L-KEF-EXH	KEF-1 EXHAUST	RUSKIN	ELF15J	ALUMINUM, STATIONARY, NON-DRAINABLE	160	0.58	275.9	0.02	12	18	1.5	4	1, 2, 3, 4, 5

NOTES:
 1. COORDINATE FINAL INSTALLATION DIMENSIONS WITH ARCHITECT. PROVIDE MANUFACTURER'S BLANK-OFF PANEL AS REQUIRED.
 2. FINISH TO MATCH EXISTING ARCHITECTURE.
 3. FIELD FABRICATE LOUVER PLENUM PER PLUMBING DETAILS.
 4. PROVIDE OPTION FOR MANUFACTURER'S EXTENDED SILL TO MATCH EXISTING EXTERIOR WALL DEPTH.
 5. PROVIDE OPTION FOR MANUFACTURER SUPPLIED UNIVERSAL SLEEVE, BIRD SCREEN, AND DRIP CAP.

ELECTRIC DUCT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE	AIRFLOW (CFM)	PRESS. DROP (IN W.C.)	EAT (°F)	LAT (°F)	HEATING CAP. (kW)	VOLT/PH	NOTES
EDH-1	RENEWAIRE	EK	14 x 14	835	0.07	52.98	70	4.5	240VAC/1PH	1, 2, 3, 4, 5

NOTES:
 1. FACTORY STANDARD AUTOMATIC LIMIT SWITCH, MANUAL RESET LIMIT SWITCH, AND NON-ADJUSTABLE AIRFLOW SWITCH.
 2. FACTORY PROVIDED DISCONNECT SWITCH.
 3. PROVIDE FLANGE MOUNT OPTION.
 4. PROVIDE DUST TIGHT GASKETED COVER.
 5. PROVIDE (4) STAGE ELECTRONIC STEP CONTROLLER AND OTHER REQUIRED ACCESSORIES TO MODULATE HEATER OUTPUT.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW RANGE (CFM)	NOMINAL SIZE (IN)	CORE SIZE	BRANCH SIZE	PRESSURE DROP (IN W.C.)	THROW50 (FT)	NC	NOTES
SD-1	SUPPLY	PRICE	SMCD	CEILING MOUNTED DIFFUSER WITH MODULAR CORE CONFIGURATIONS FOR ADJUSTABLE DISCHARGE PATTERNS. 4-WAY PATTERN. STEEL CONSTRUCTION.	0-125	6 x 6	--	6" φ	0.057	12	<15	2
					300-325	12 x 12	--	10" φ	0.020	15	<15	2
					400	12 x 12	--	10" φ	0.036	19	<15	2
SG-1	SUPPLY	PRICE	520	DOUBLE DEFLECTION GRILLE IN STEEL WITH 3/4" BLADE SPACING. BLADES ALIGNED IN VERTICAL DIRECTION.	45 - 50	6 x 5	0.15 SF	6" φ	0.014	12	<15	2
SG-2	SUPPLY	PRICE	SGD	SPIRAL/OVAL DUCT MOUNTED GRILLE IN STEEL WITH OPEN CELL FOAM INLET GASKET AND CLOSED CELL FOAM END GASKET, DOUBLE DEFLECTION CORE WITH 3/4" SQ GRID BLADE SPACING (FRONT BLADES ALIGNED TO SHORT DIMENSION). PROVIDE WITH OPTIONAL STEEL OPPOSED BLADE DAMPER. PROVIDE GRILLES NOT LOCATED AT THE ENDS OF BRANCHES WITH OPTIONAL AIR SCOOP.	255	16x4	0.34 SF	--	0.095	29/23/15	20	1
					300	20x4	0.46 SF	--	0.080	32/26/17	20	1
EG-1	RETURN EXHAUST	PRICE	80	CEILING MOUNTED EGG CRATE STYLE RETURN GRILLE WITH HEAVY GAUGE ALUMINUM GRID CORE. 1/2" GRID SPACING WITH 0° DEFLECTION. PROVIDE FIELD FABRICATED PLENUMS.	0 - 100	6 x 6	0.18 SF	6" φ	0.047	--	< 15	2
					150 - 220	12 x 6	0.39 SF	8" φ	0.042	--	< 15	2
					550	12 x 12	0.90 SF	12" φ	0.066	--	15	2
					600	18 x 8	0.90 SF	12" φ	0.066	--	15	2

GENERAL NOTES:
 A. COORDINATE FINISH WITH ARCHITECT.
 B. REFER TO ARCHITECTURAL RCP FOR CEILING CONDITION AND PROVIDE REQUIRED MOUNTING CONFIGURATION.

NOTES:
 1. THROW DATA REPORTED FOR 0°, 22.5°, AND 45° DEFLECTION.
 2. THROW DATA REPORTED FOR 0° DEGREE DEFLECTION ONLY.



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MECHANICAL
SCHEDULES AND
CALCULATIONS
M0.3



AIR-SOURCE HEAT PUMP INDOOR UNIT SCHEDULE

BASIS OF DESIGN						FAN DATA					COOLING DATA			HEATING DATA			ELECTRICAL DATA			PHYSICAL DATA			SOUND PRESS. (dBA)	NOTES	
TAG	MANUFACTURER	MODEL	TYPE	OUTDOOR UNIT	BRANCH CONTROLLER	AIRFLOW (CFM)	DUCTED ESP (IN W.C.)	FILTER EFF.	MOTOR DRAW	MOTOR SIZE (HP)	CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	MCA	MOCP	VOLT/PH	WIDTH	DEPTH	HEIGHT			WEIGHT (LBS)
IDU-1A	DAIKIN	MSZ-GL06NA	DUCTLESS WALL-MOUNTED	ODU-1	BB-1	399	--	--	30 W	--	6,000	80.0	67.0	7,200	70.0	60.0	1.00	15.0	230VAC/1PH	31 7/16"	9 1/8"	11 5/8"	22	43	2, 4, 5, 6
IDU-1B	DAIKIN	MSZ-GL06NA	DUCTLESS WALL-MOUNTED	ODU-1	BB-1	399	--	--	30 W	--	6,000	80.0	67.0	7,200	70.0	60.0	1.00	15.0	230VAC/1PH	31 7/16"	9 1/8"	11 5/8"	22	43	1, 3, 4, 5, 6
IDU-2	DAIKIN	MUZ-GL12NA	DUCTLESS WALL-MOUNTED	ODU-2	--	406	--	--	30 W	--	12,000	80.0	67.0	14,400	70.0	60.0	1.00	15.0	230VAC/1PH	31 7/16"	9 1/8"	11 5/8"	22	45	2, 4, 5, 6
IDU-3	DAIKIN	PVA-A36AA7	DUCTED MULTI-POSITION AHU	ODU-3	--	1,125	0.80	--	430 W	--	33,000	80.0	67.0	38,000	70.0	60.0	5.50	15.0	230VAC/1PH	33 1/16"	13"	34 5/8"	121	45	1, 4, 5, 6
IDU-4	DAIKIN	MSZ-GL18NA	DUCTLESS WALL-MOUNTED	ODU-4	--	646	--	--	30 W	--	18,000	80.0	67.0	22,000	70.0	60.0	1.00	15.0	230VAC/1PH	36 5/16"	9 13/16"	12"	28	49	4, 5, 6
IDU-5A	DAIKIN	PLFY08NFMU-E	22x22 4-WAY VRF CEILING CASSETTE	ODU-5	BCC-1	335	--	--	50 W	--	12,000	80.0	67.0	13,500	70.0	60.0	0.30	15.0	230VAC/1PH	22 7/16"	22 7/16"	8 3/16"	29	34	4, 5, 7
IDU-5B	DAIKIN	PLFY05NFMU-E	22x22 4-WAY VRF CEILING CASSETTE	ODU-5	BCC-1	280	--	--	50 W	--	8,000	80.0	67.0	9,000	70.0	60.0	0.30	15.0	230VAC/1PH	22 7/16"	22 7/16"	8 3/16"	29	33	4, 5, 7
IDU-5C	DAIKIN	PLFY05NFMU-E	22x22 4-WAY VRF CEILING CASSETTE	ODU-5	BCC-1	280	--	--	50 W	--	8,000	80.0	67.0	9,000	70.0	60.0	0.30	15.0	230VAC/1PH	22 7/16"	22 7/16"	8 3/16"	29	33	4, 5, 7
IDU-5D	DAIKIN	PLFY08NFMU-E	22x22 4-WAY VRF CEILING CASSETTE	ODU-5	BCC-1	335	--	--	50 W	--	12,000	80.0	67.0	13,500	70.0	60.0	0.30	15.0	230VAC/1PH	22 7/16"	22 7/16"	8 3/16"	29	34	4, 5, 7

NOTES:

- EXISTING UNIT TO BE RELOCATED. PROVIDE NEW REFRIGERANT LINE SET, SIZED PER MANUFACTURER'S REQUIREMENTS.
- EXISTING UNIT TO BE SALVAGED AND REINSTALLED AT SAME LOCATION. PROVIDE NEW REFRIGERANT LINE SET, SIZED PER MANUFACTURER'S REQUIREMENTS. INSPECT UNIT AND PERFORM REQUIRED CLEANING AND MAINTENANCE PER MANUFACTURER'S RECOMMENDATIONS.
- EQUIPMENT POWERED VIA CONNECTION TO OUTDOOR UNIT. PROVIDE CONNECTION PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ELECTRICAL TO PROVIDE DISCONNECT SWITCH.
- PROVIDE REFRIGERANT PIPING AND CONTROL WIRING CONNECTIONS TO BRANCH CONTROLLER AND OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE NEW THERMOSTATIC CONTROLS FOR NEW AND EXISTING UNITS.
- PROVIDE BLUE DIAMOND (ADVANCED) MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR AS REQUIRED. COORDINATE 230VAC/1PH POWER SUPPLY WITH ELECTRICAL. ROUTE CONDENSATE DRAIN TO NEAREST SINK TAILPIECE OR ACCEPTABLE FLOOR RECEPTACLE.
- PROVIDE WITH DELUXE MA REMOTE CONTROLLER (DAIKIN #PAR-40MAAU) AND INSTALL AT LOCATIONS INDICATED ON PLANS PER MANUFACTURER'S INSTRUCTIONS.

AIR-SOURCE HEAT PUMP OUTDOOR UNIT SCHEDULE

BASIS OF DESIGN						COOLING DATA					HEATING DATA				REFRIGERANT DATA			ELECTRICAL DATA			PHYSICAL DATA				SOUND PRESS. (dBA)	NOTES
TAG	MANUFACTURER	MODEL	TYPE	CONNECTED UNITS	RATED CAP. (BTU/H)	CONN. CAP. (BTU/H)	OAT DB (°F)	OAT WB (°F)	EER	SEER	CAP. (BTU/H)	CONN. CAP. (BTU/H)	OAT DB (°F)	COP	TYPE	CHARGE (LBS. - OZ.)	MCA	MOCP	VOLT/PH	WIDTH	DEPTH	HEIGHT	WEIGHT (LBS)			
ODU-1	DAIKIN	MXZ-4C36NAHZ	MULTISPLIT INVERTER	2	36,000	36,000	95.0	75.0	14.0	19.1	45,000	45,000	47.0	3.95	R-410A	10 - 9	42.0	50.0	230VAC/1PH	41 11/32"	13"	52 11/16"	276	53	1	
ODU-2	DAIKIN	MXZ-3C24NAHZ2	MULTISPLIT INVERTER	1	22,000	22,000	95.0	75.0	13.5	19.0	25,000	25,000	47.0	4.25	R-410A	8 - 13	30.5	40.0	230VAC/1PH	37 13/32"	13"	41 17/64"	189	58	1	
ODU-3	DAIKIN	PUZ-HA36NHA5	SINGLE-ZONE SPLIT	1	33,000	33,000	95.0	75.0	12.5	17.8	38,000	38,000	47.0	3.66	R-410A	12 - 0	28.0	40.0	230VAC/1PH	37 3/8"	13"	53 1/8"	265	53	1	
ODU-4	DAIKIN	MUZ-GL18NA	SINGLE-ZONE SPLIT	1	22,000	22,000	95.0	75.0	13.4	20.5	25,000	25,000	47.0	3.77	R-410A	3 - 9	14.0	15.0	230VAC/1PH	33 1/16"	13"	34 5/8"	121	55		
ODU-5	DAIKIN	PURY-EP72TNU-A	VRF HEAT PUMP	4	72,000	40,000	95.0	75.0	13.4/15.4	24.5/31.2	80,000	45,000	47.0	3.81/4.37	R-410A	11 - 7	23.0	35.0	230VAC/1PH	36 1/4"	29 3/16"	71 5/8"	519	56.5		

NOTES:

- EXISTING UNIT TO BE SALVAGED AND REINSTALLED AT SAME LOCATION. PROVIDE INSPECTION AND PERFORM REQUIRED CLEANING AND MAINTENANCE PER MANUFACTURER'S RECOMMENDATIONS.

MULTI-ZONE HEAT PUMP BRANCH CONTROLLER SCHEDULE

BASIS OF DESIGN						CONN. DATA			ELECTRICAL DATA				PHYSICAL DATA				SOUND PRESS. (dBA)	NOTES
TAG	TYPE	MANUFACTURER	MODEL	SERVICE	CONNECTED UNITS	PORTS	SINGLE PORT CAP. (BTU/H)	INPUT POWER (W)	MCA	MOCP	VOLT/PH	WIDTH	DEPTH	HEIGHT	WEIGHT (LBS)			
BB-1	BRANCH BOX ENCLOSURE	MITSUBISHI	PAC-MKA30BC	ODU-1	2	3	36,000	3	0.05	20	230VAC/1PH	17 23/32"	11 1/32"	6 11/16"	21.8			
BCC-1	VRF BRANCH CIRCUIT CONTROLLER (SINGLE BRANCH)	MITSUBISHI	CMB-P108NU-J1	ODU-5	4	8	54,000	690	0.90	20	230VAC/1PH	23 1/2"	9 7/8"	15 11/16"	58	59		

NOTES:

- EXISTING UNIT TO REMAIN. VERIFY LOCATION IN FIELD AND PROVIDE INSPECTION. PERFORM REQUIRED MAINTENANCE PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE PORT ADAPTERS AS REQUIRED FOR RERIPING RELOCATED INDOOR UNITS.
- PROVIDE ADDITIONAL LENGTH OF MANUFACTURER'S CONTROL WIRE FOR CONNECTION TO INDOOR UNITS AND CONNECTION TO OUTDOOR UNITS AS REQUIRED.
- POWER SUPPLIED VIA CONTROL CABLE CONNECTION TO OUTDOOR UNIT. COORDINATE WITH ELECTRICAL TO PROVIDE DISCONNECT SWITCH.
- PROVIDE BLUE DIAMOND (ADVANCED) MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR (MITSUBISHI #X87-721) RATED FOR 230VAC/1PH

MOTORIZED DAMPER SCHEDULE

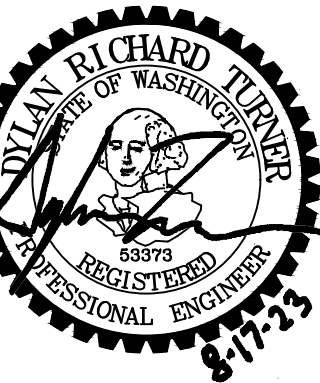
BASIS OF DESIGN				CLASSIFICATION			ACTUATOR DATA						NOTES
TAG	MANUFACTURER	MODEL	SERVICE	TYPE	ALLOWABLE LEAKAGE	MANUFACTURER	MODEL	TYPE	FAILURE MODE	VOLT			
MD-ERV-OA	RUSKIN		ERV-1 OA INTAKE	AUTOMATIC SHUTOFF	SMACNA CLASS 1	RUSKIN	RUS-L24-MOD	SPRING-RETURN ACTUATOR	FAIL CLOSED	24VDC	1,2		
MD-ERV-EXH	RUSKIN		ERV-1 EXHAUST	AUTOMATIC SHUTOFF	SMACNA CLASS 1	RUSKIN	RUS-L24-MOD	SPRING-RETURN ACTUATOR	FAIL CLOSED	24VDC	1,2		

NOTES:

- POWER SHALL BE PROVIDED BY EQUIPMENT SERVICED.
- EQUIPMENT SHALL BE CONTROLLED DIRECTLY BY EQUIPMENT SERVED.

EXHAUST FAN SCHEDULE

MARK	SERVES	CFM	EXT. S.P. IN. W.G.	WEIGHT LBS.	INLET DBA (DB)	ELECTRICAL			REMARKS
						HP	VOLTS	PH.	
KEF-1	BREAK ROOM 114	160	0.25	14	56	1/5	115	1	UNDER-CABINET DOMESTIC RANGE HOOD, SUMMIT ADAH1630SS OR APPROVED EQUAL. COORDINATE COLOR AND FINISH WITH ARCHITECT. PROVIDE WITH BACKDRAFT DAMPER, WASHABLE GREASE FILTER, TIMER WALL SWITCH. *NOTE: THE COOKING EQUIPMENT WILL BE RESIDENTIAL TYPE, USED FOR NON-COMMERCIAL COOKING (BOILING, STEAMING, WARMING).



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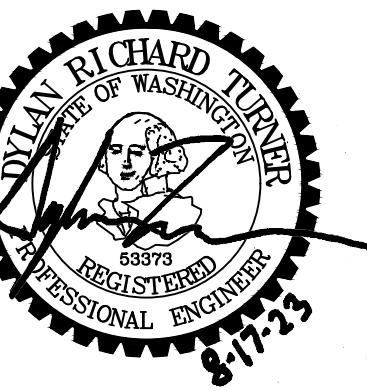
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DRAWING NOTES:

- EXTENT OF DEMOLITION IS DIAGRAMMATIC.
- EXISTING ROUTING AND SIZING OF PIPING AND DUCTWORK IS UNCERTAIN. SIZES AND CONFIGURATIONS SHOWN ARE BASED UPON RECORD DRAWINGS. FIELD-VERIFY EXISTING CONFIGURATION PRIOR TO DEMOLITION. CONTACT THE OWNER IF ANY EXISTING EQUIPMENT IS FOUND THAT IS NOT SHOWN ON THE PLANS.
- ALL DUCTWORK IN THE ATTIC IS TO BE REMOVED. SEE ADDITIONAL NOTES BELOW.

FLAG NOTES:

- REMOVE EXISTING SPLIT-SYSTEM INDOOR UNIT AND SALVAGE FOR REINSTALLATION AT NEW LOCATION.
- REMOVE EXISTING GAS-FIRED DOMESTIC WATER HEATER, ASSOCIATED FLUE PIPING, GAS PIPING AND VALVES.
- REMOVE EXISTING NATURAL GAS PIPING FROM THE BUILDING, INCLUDING ATTIC AND CRAWLSPACE, AND CAP NATURAL GAS SUPPLY AT THE METER.
- REMOVE EXISTING DIFFUSERS AND RETURN GRILLES AND ASSOCIATED DUCTWORK IN THE ATTIC. INFILL, PATCH, AND PAINT OPENINGS IN CEILING. TYP. OF ALL CEILING DIFFUSERS AND RETURNS.
- REMOVE EXISTING FLOOR REGISTER. INFILL AND PATCH FLOOR AT PENETRATION LOCATION.
- REMOVE EXISTING THERMOSTAT.
- REMOVE EXISTING REFRIGERATION UNITS AND ASSOCIATED ODU'S, AND ASSOCIATED LINES.
- APPROXIMATE LOCATION OF EXISTING DISTRIBUTION BOX IN THE ATTIC. REVIEW CONDITION WITH OWNER AND ARCHITECT/ENGINEER FOR POTENTIAL SALVAGE/RE-USE. FOR BIDDING, ASSUME UNIT IS TO BE REMOVED ALONG WITH ASSOCIATED PIPING AND DUCTWORK.
- REMOVE EXISTING EQUIPMENT TO ACCOMMODATE RENOVATION WORK, SALVAGE AND REINSTALL AT SAME LOCATION.

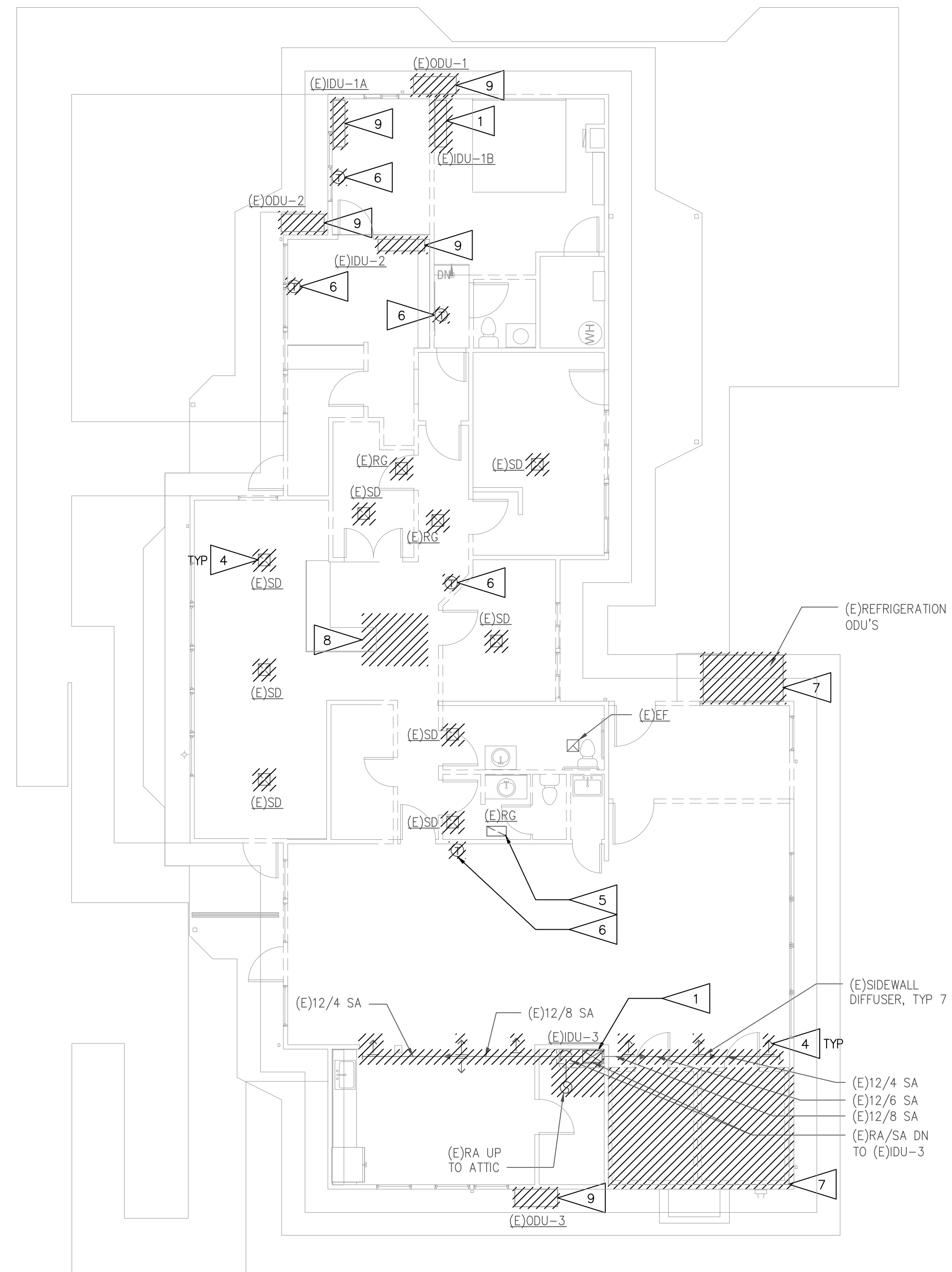


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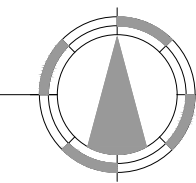
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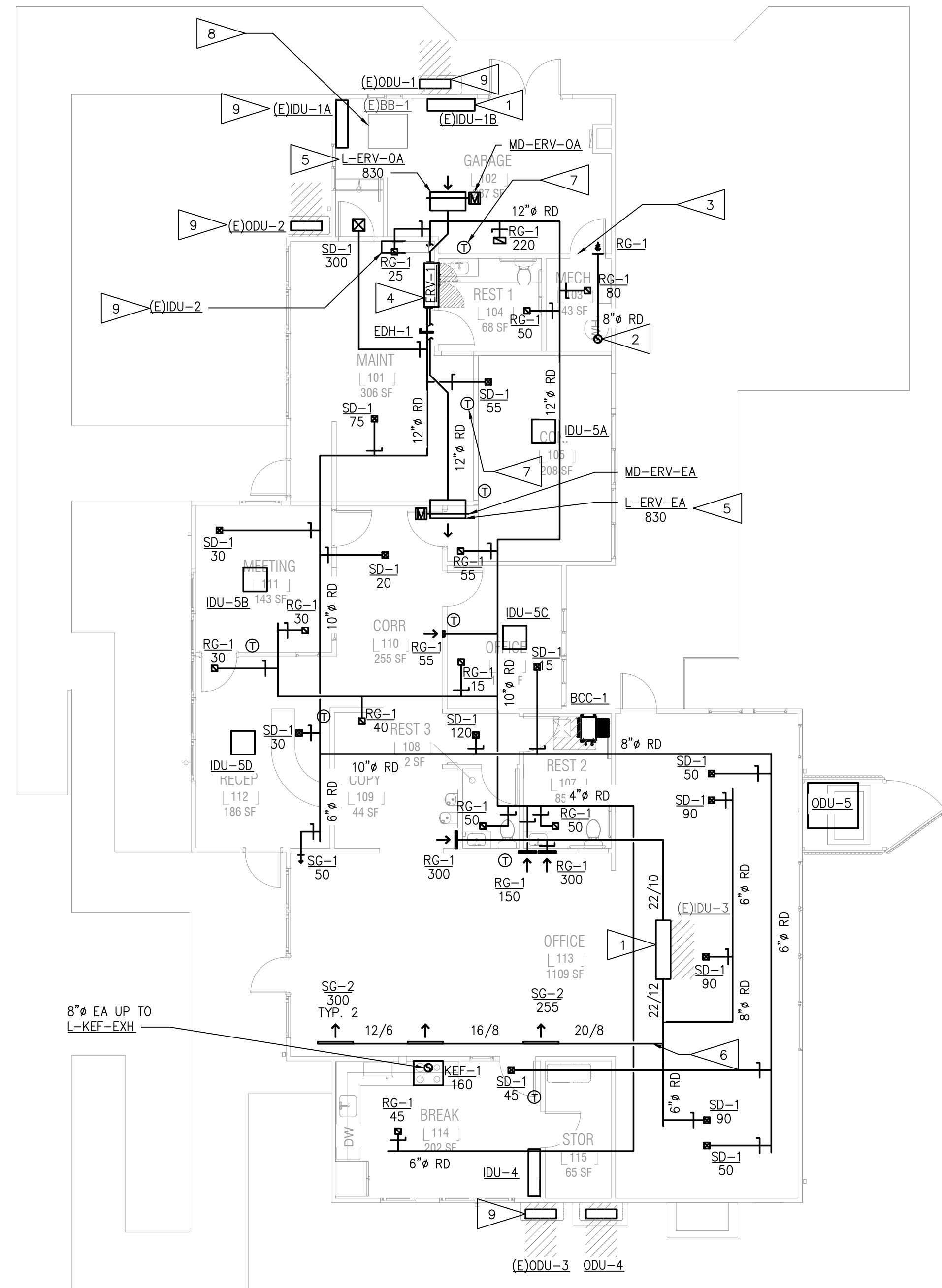
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1 MECHANICAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"





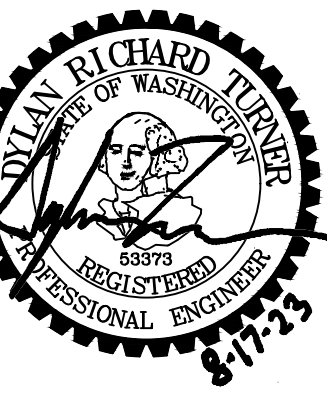
1 FIRST FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

- DUCTWORK IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION. ALL DUCTWORK SHOWN IS TO BE NEW, AND INSULATED PER WASHINGTON STATE ENERGY CODE REQUIREMENTS.
- TAKEOFF SIZES PER GRILLE, REGISTER, AND DIFFUSER SCHEDULE.
- COORDINATE WITH ARCHITECT TO PROVIDE ACCESS TO EQUIPMENT AND CONTROL DEVICES PER MANUFACTURER'S REQUIREMENTS WHEN LOCATED ABOVE HARD CEILING.
- ALL WORK TO COMPLY WITH RELEVANT DETAILS ON SHEETS M3.1 AND M3.2.
- REFRIGERANT PIPING OMITTED FOR VISUAL CLARITY. COORDINATE ROUTING AND CONNECT EQUIPMENT AS NECESSARY TO PROVIDE A COMPLETE, FUNCTIONING SYSTEM.

FLAG NOTES:

- REINSTALL SALVAGED IDU AT NEW LOCATION. ROUTE PIPING, POWER AND CONTROL WIRING THROUGH ATTIC. EXTEND AS REQUIRED TO RECONNECT TO UNIT AT NEW LOCATION. PROVIDE WITH NEW THERMOSTAT.
- COORDINATE WITH PLUMBING TO PROVIDE 8" DUCT TO SUPPLY INTAKE AIR FOR HPHWH-1. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- COORDINATE DOOR UNDERCUT OR LOUVERED DOOR OPENING WITH ARCHITECT PER HPHWH-1'S MANUFACTURER'S REQUIREMENTS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL 12" RD BYPASS DUCTWORK AND FACTORY SUPPLIED DAMPERS PER ERV-1'S MANUFACTURER'S INSTRUCTIONS. THIS SCOPE HAS BEEN OMITTED FROM THE DRAWINGS FOR VISUAL CLARITY.
- LOUVERS TO BE INSTALLED ON GABLE ENDS OF ROOF. LOCATE LOUVERS IN COMPLIANCE WITH CLEARANCE REQUIREMENTS PER 2018 WSMC. REFER TO M2.2 FOR ADDITIONAL INFORMATION.
- TRANSITION TO FLAT OVAL SIZE BEFORE ENTERING OPEN CEILING AREA.
- PROVIDE NEW WALL MOUNTED REMOTE TEMPERATURE SENSOR AND CONTROL UNIT FOR EXISTING EQUIPMENT. EXTEND CONTROL WIRING AS REQUIRED TO CONNECT TO EXISTING EQUIPMENT.
- (E)BRANCH BOX LOCATION AND CONNECTIONS TO BE VERIFIED IN FIELD.
- REINSTALL SALVAGED IDU OR ODU AT EXISTING LOCATION. PROVIDE WITH NEW REFRIGERANT PIPING AND NEW THERMOSTATIC CONTROLS.



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FIRST FLOOR
HVAC PLAN
M2.1

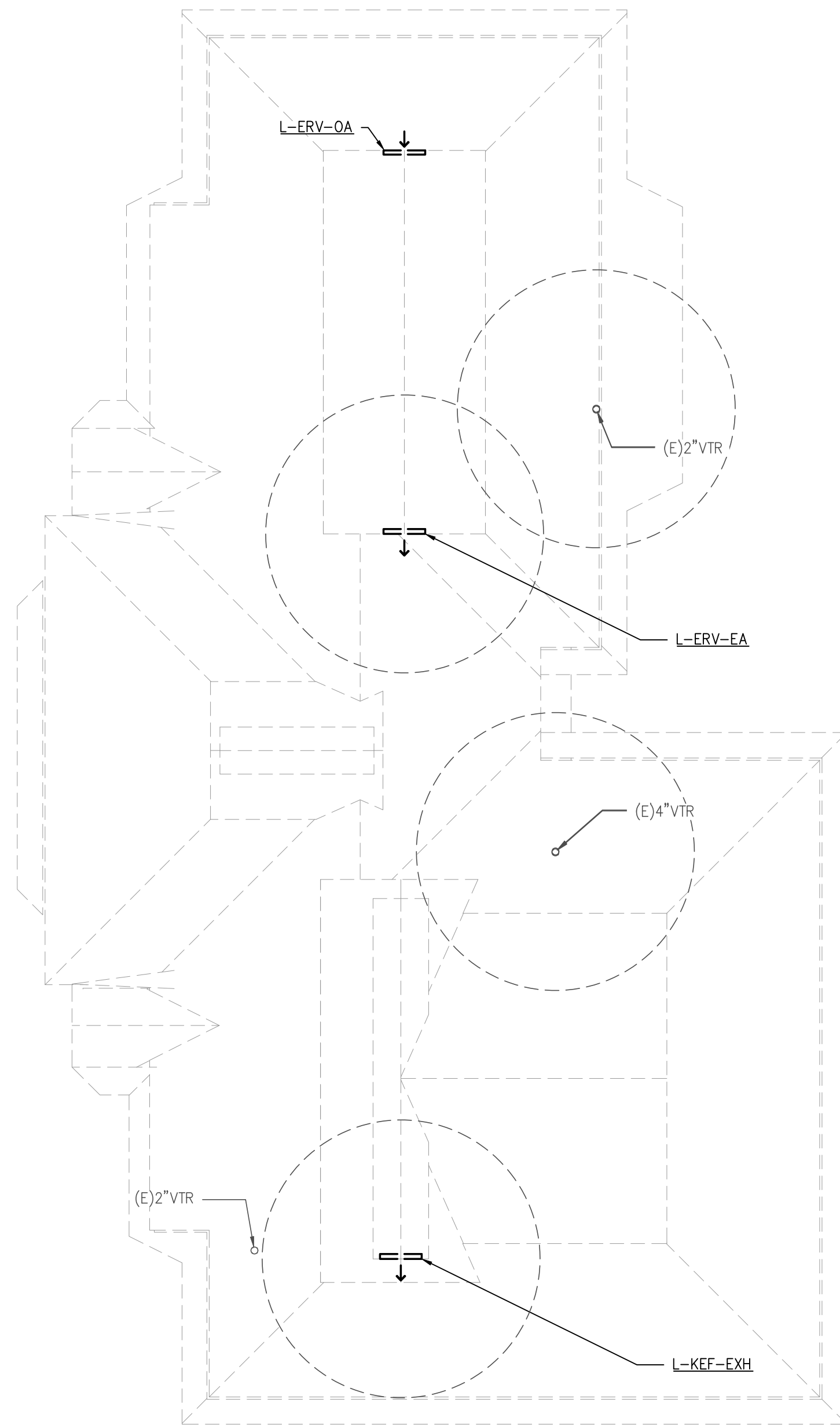


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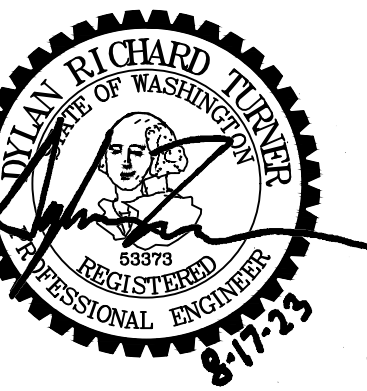
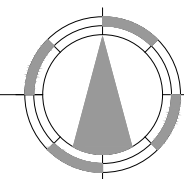
1. DUCTWORK IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

FLAG NOTES:

- 1 DASHED REGION INDICATES 10'-0" CLEARANCE REQUIREMENT.



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



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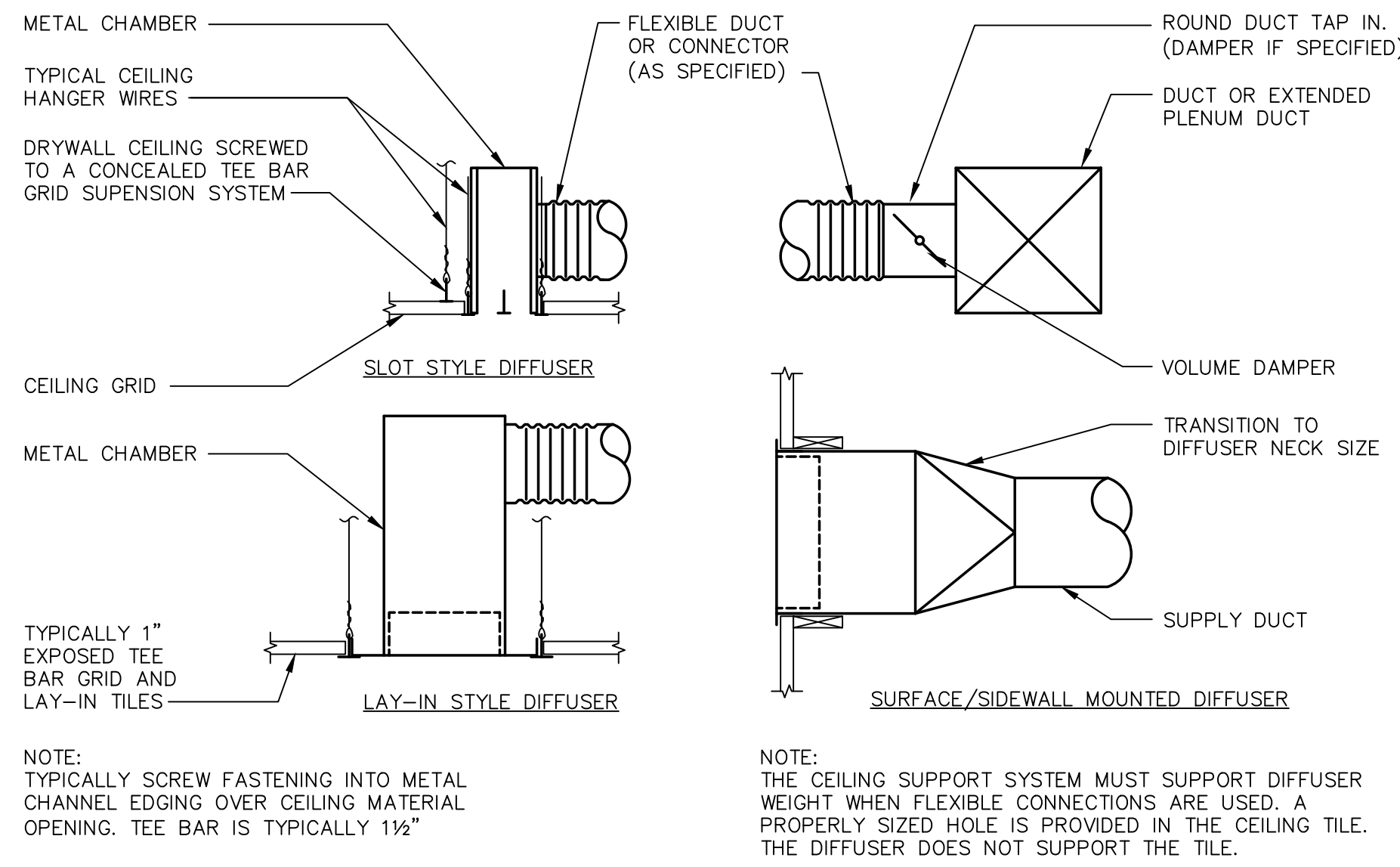
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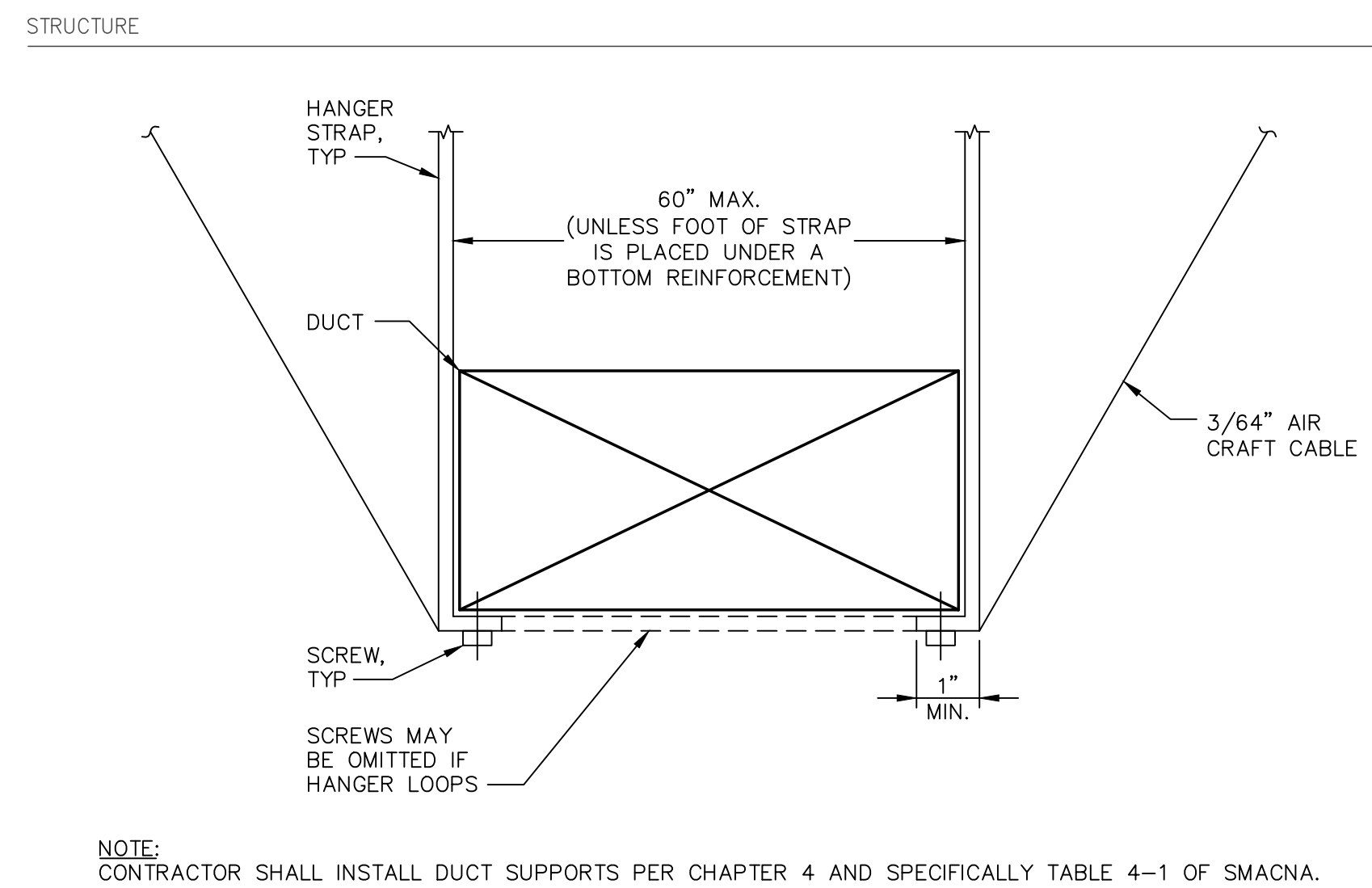
1. DETAILS REPRESENT TYPICAL OCCURRENCES WITHIN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL DETAILS WHETHER SPECIFICALLY CALLED OUT IN THE PLAN SHEETS OR NOT.



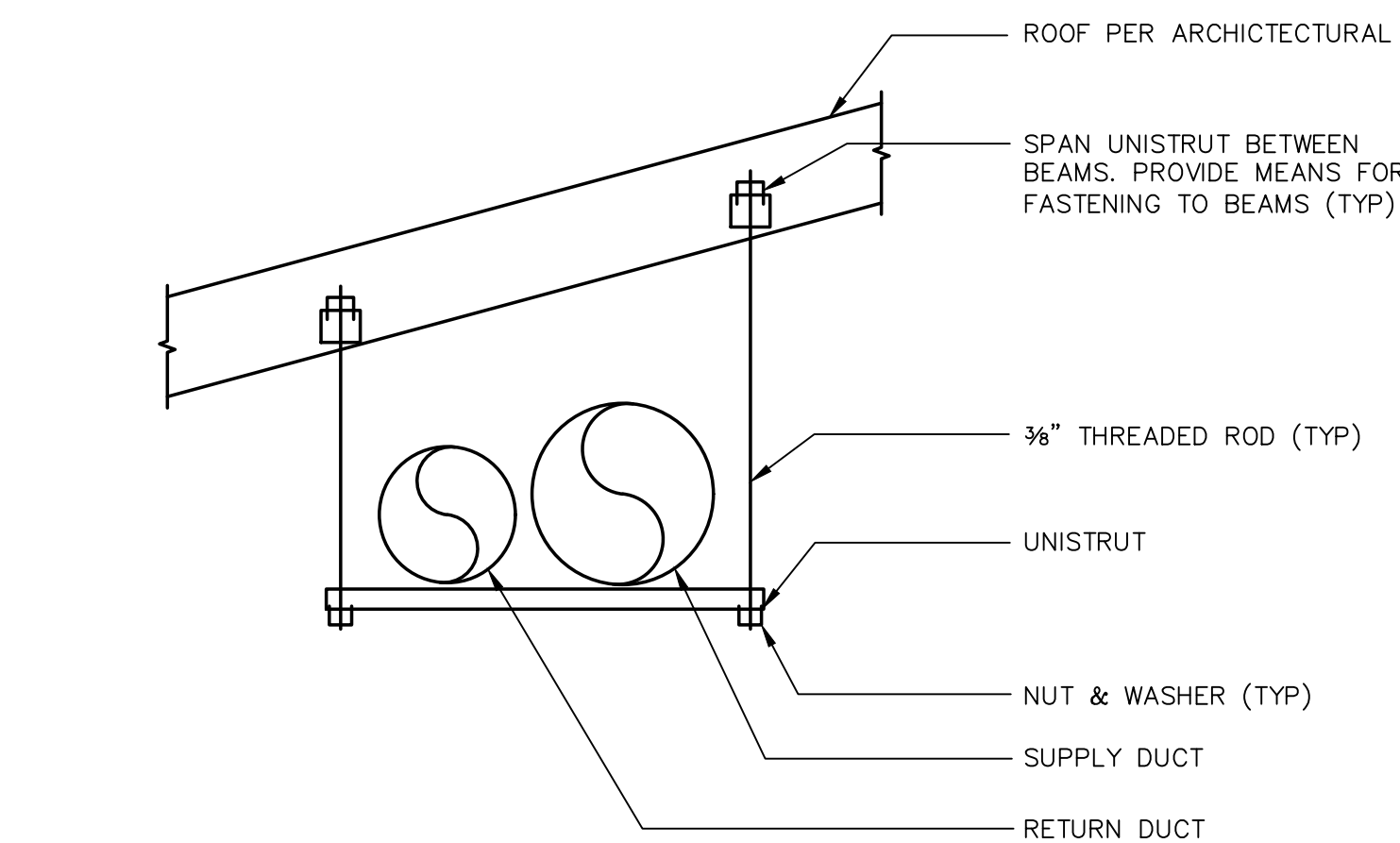
1 CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
M3.0 SCALE: NTS

2 NOT USED
M3.0 SCALE: NTS

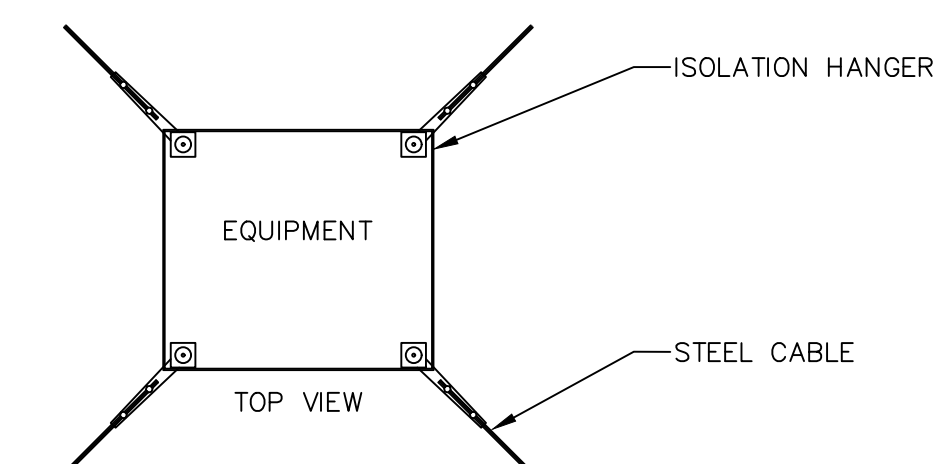
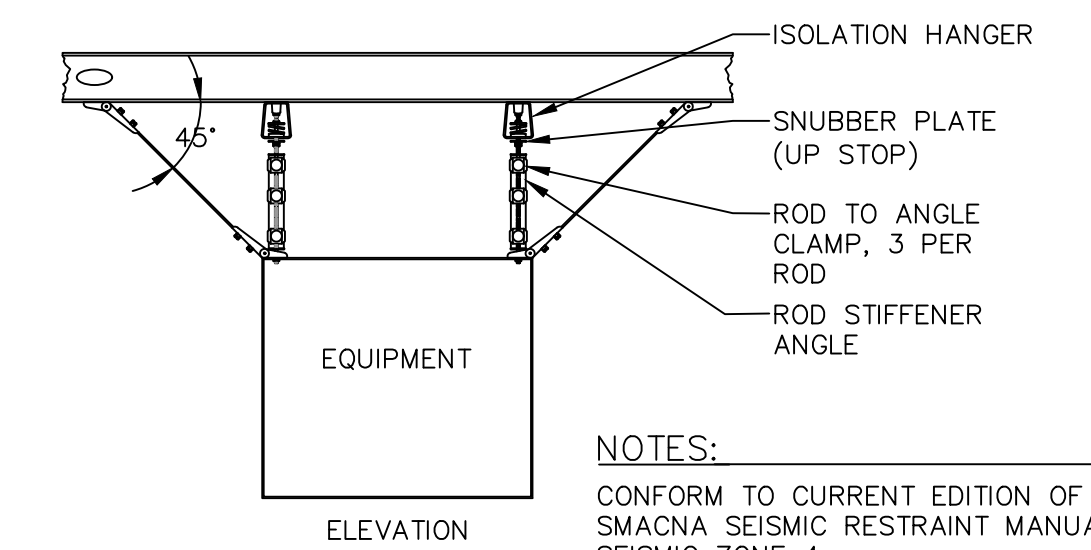
3 NOT USED
M3.0 SCALE: NTS



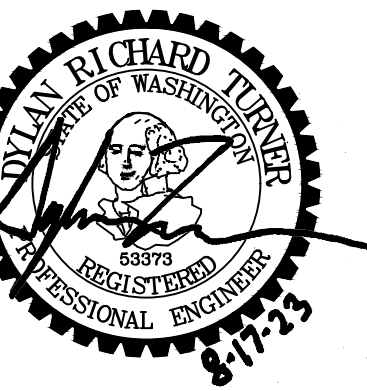
4 DUCT SUPPORT DETAIL - RECTANGULAR
M3.0 SCALE: NTS



5 DUCT SUPPORT DETAIL - ROUND
M3.0 SCALE: NTS



6 DUCTWORK SEISMIC RESTRAINT
M3.0 SCALE: NTS



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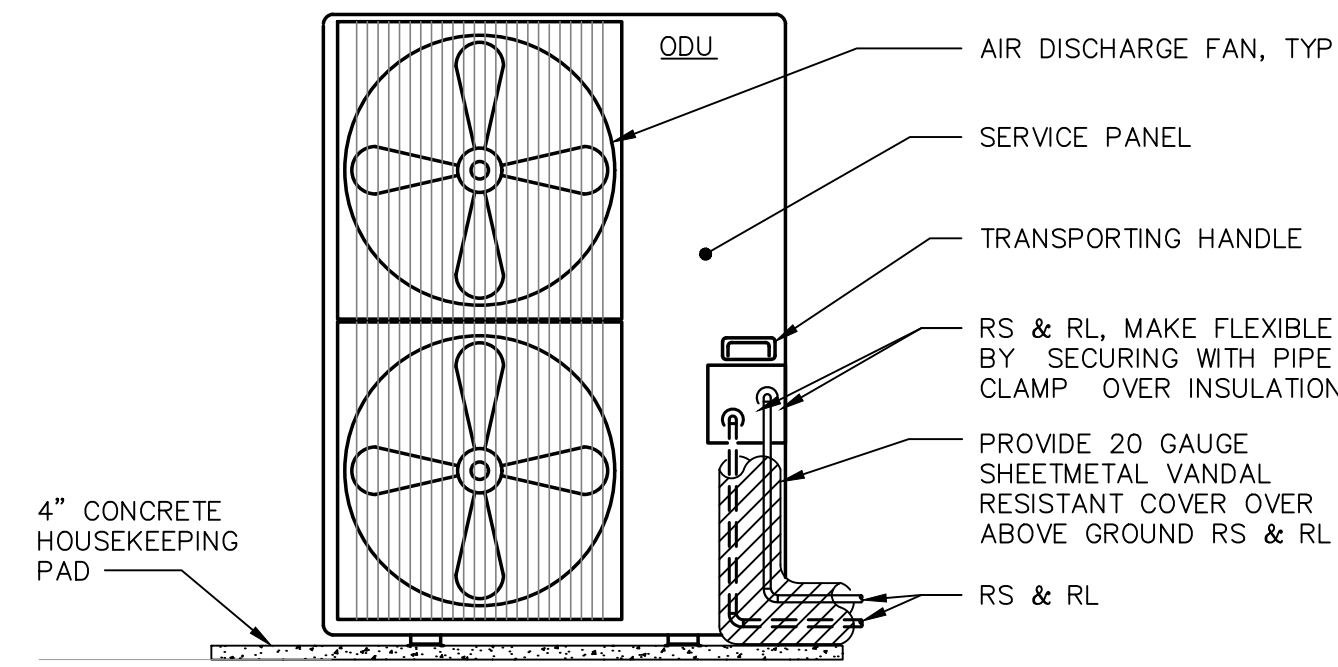
DRAWING NOTES:

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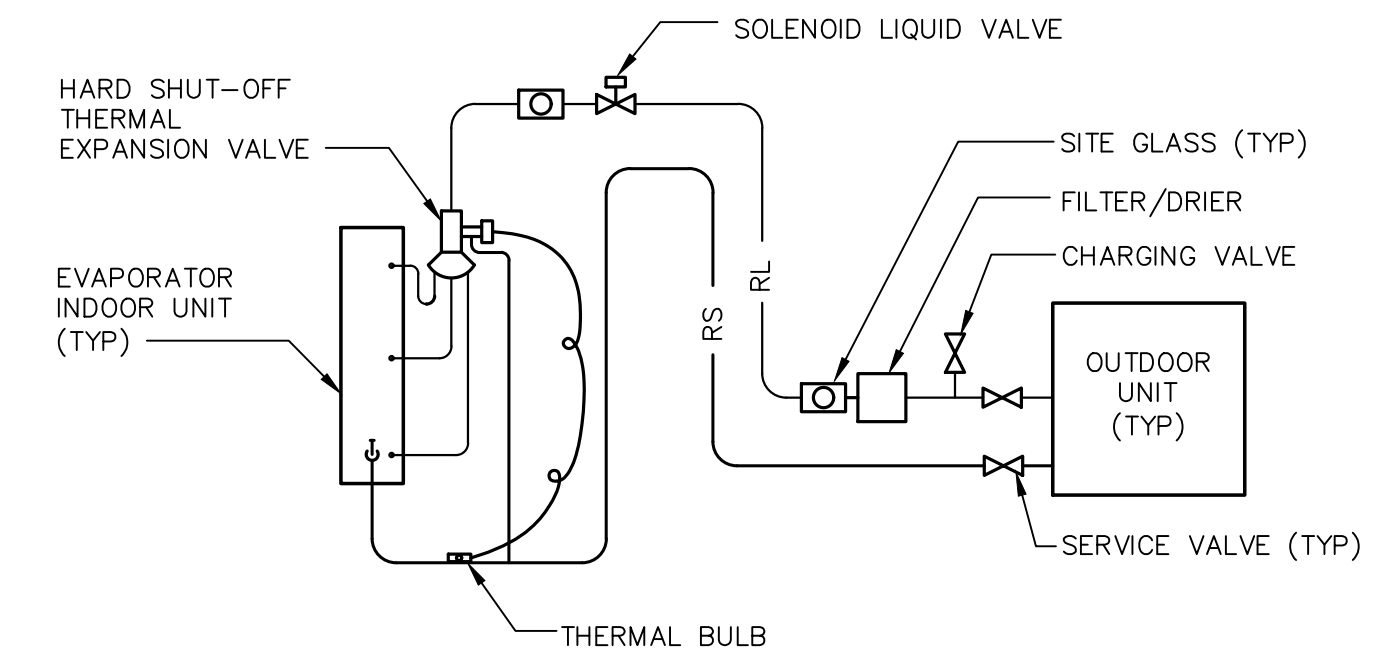
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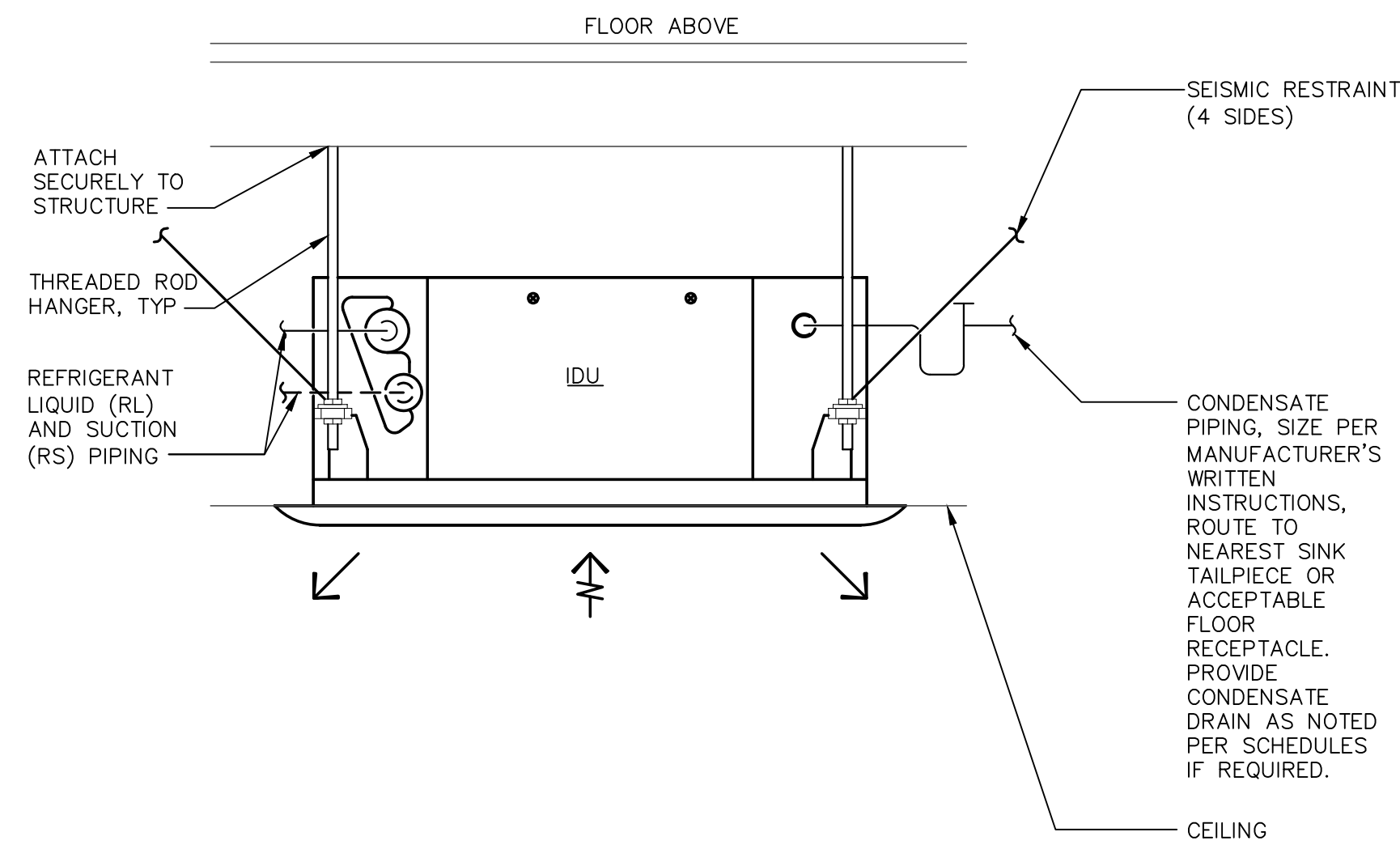
NOTE:
1. PROVIDE UNIT CLEARANCES PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS



1 NOT USED
M3.1 SCALE: NTS

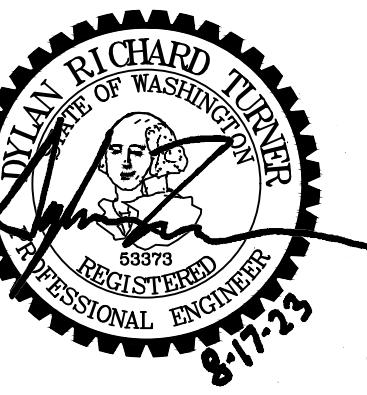
2 HEAT PUMP ODU
M3.1 SCALE: NTS

3 REFRIGERANT PIPING DIAGRAM (SPLIT SYSTEMS)
M3.1 SCALE: NTS



4 NOT USED
M3.1 SCALE: NTS

5 VRF CASSETTE
M3.1 SCALE: NTS



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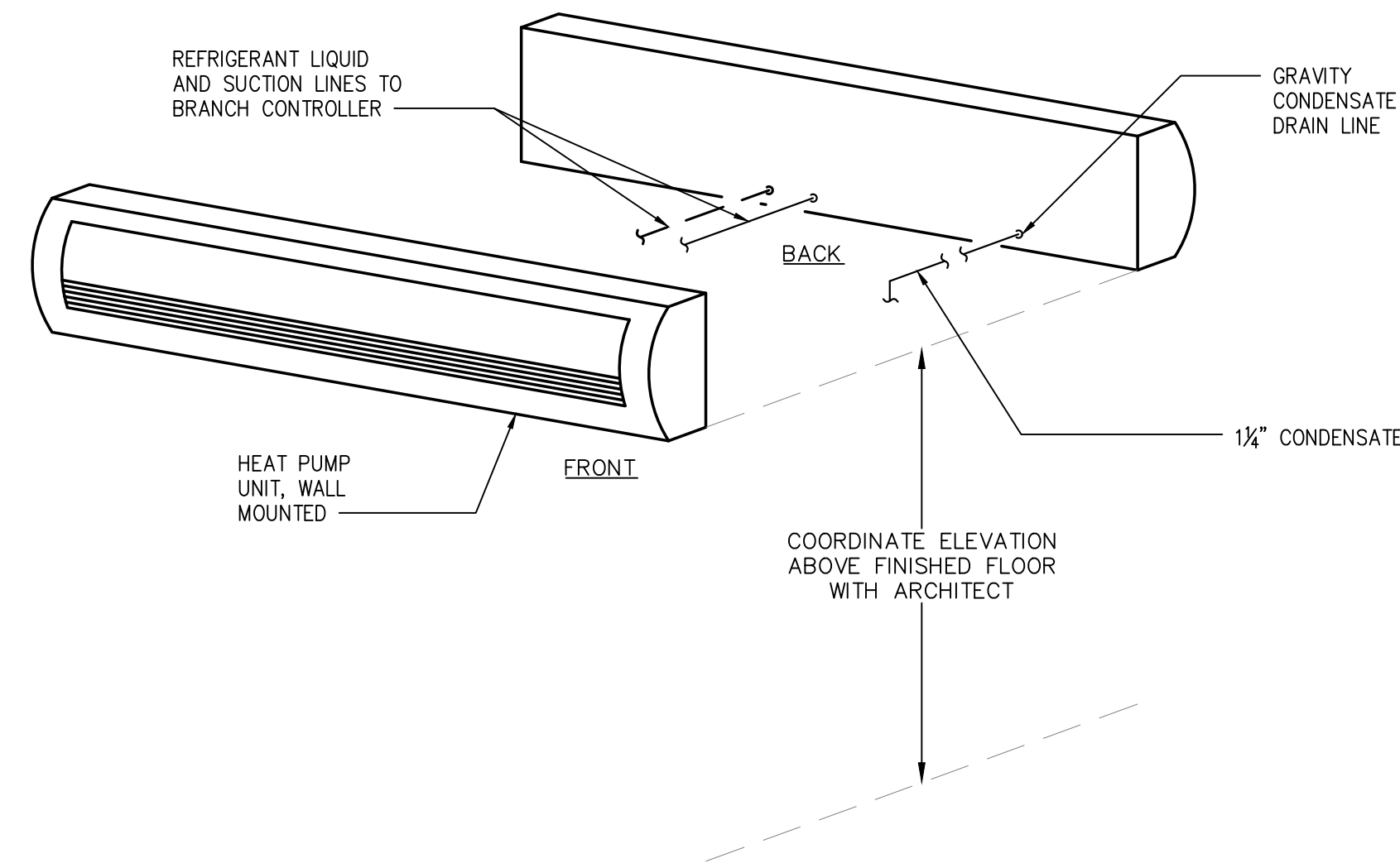
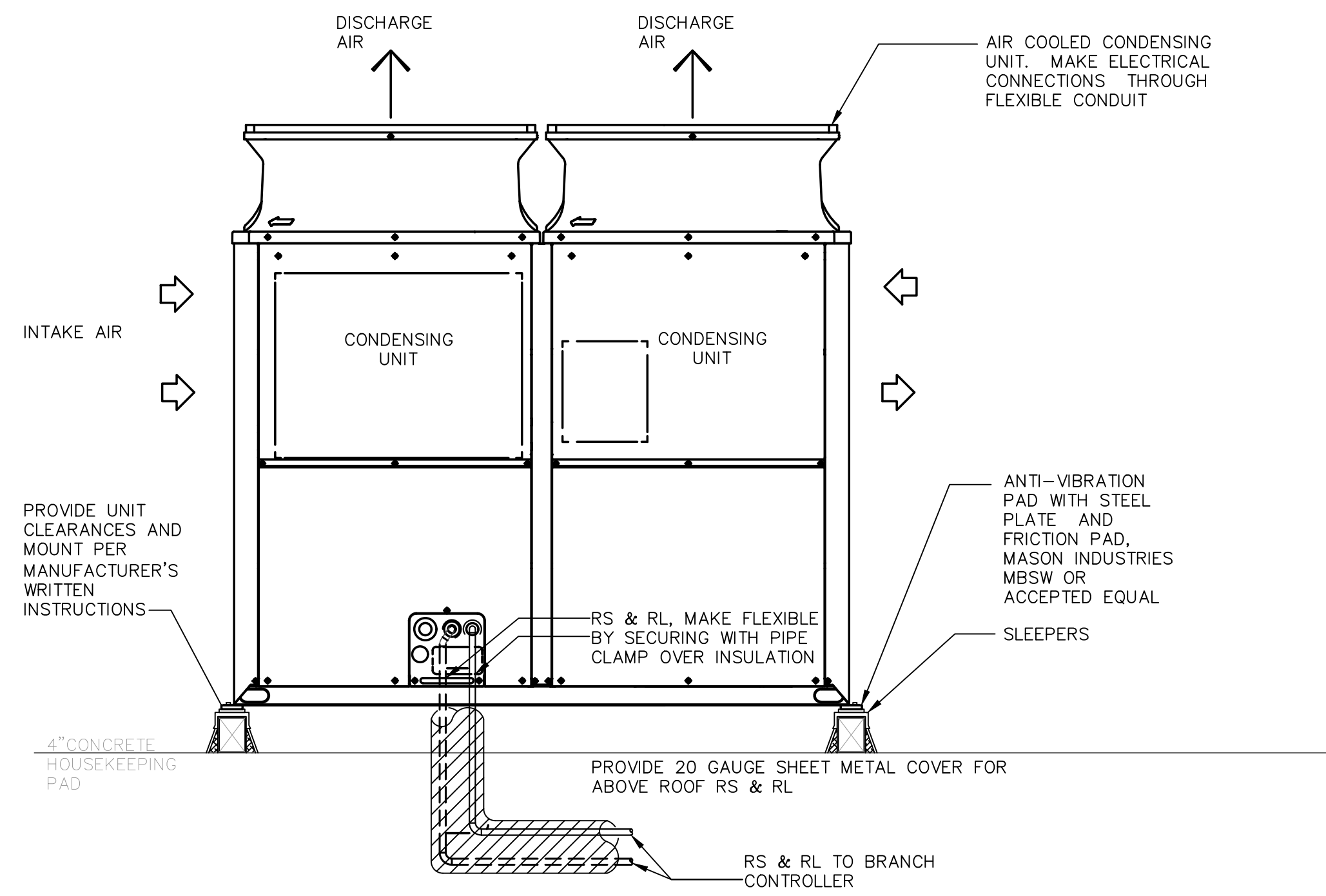
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Revisions:
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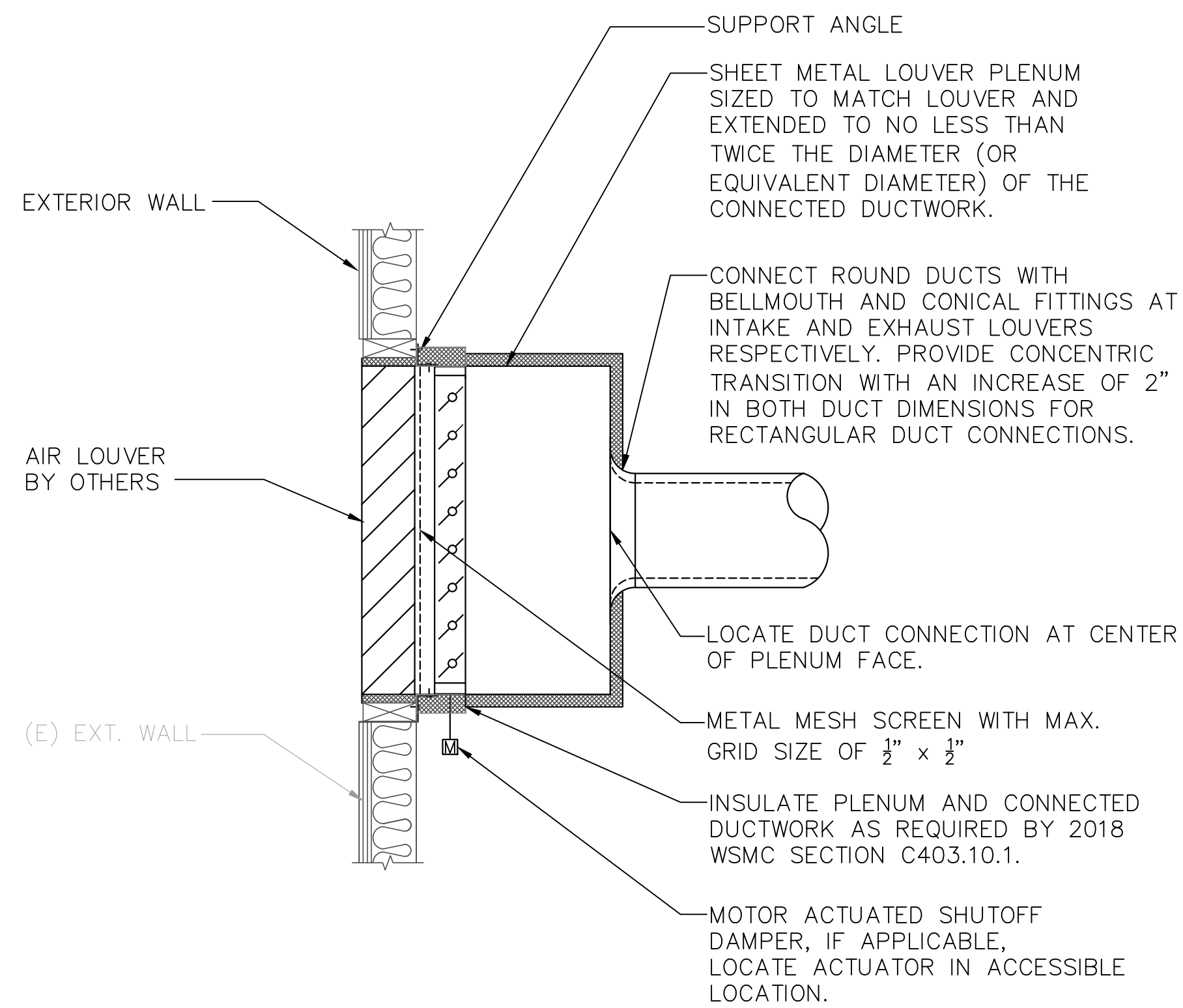
DRAWING NOTES:

1. DETAILS REPRESENT TYPICAL OCCURRENCES WITHIN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL DETAILS WHETHER SPECIFICALLY CALLED OUT IN THE PLAN SHEETS OR NOT.

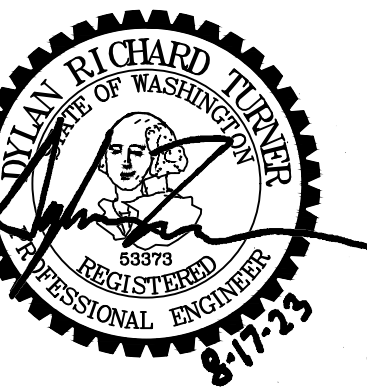


1 VRF OUTDOOR UNIT
M3.2 SCALE: NTS

2 VRF WALL-MOUNTED INDOOR UNIT
M3.2 SCALE: NTS



3 LOUVER CONNECTION DETAIL
M3.2 SCALE: NTS



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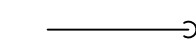
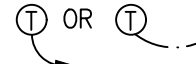
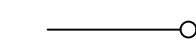

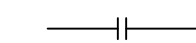

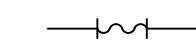

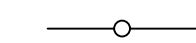

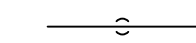

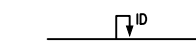

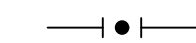

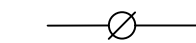
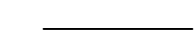
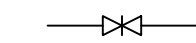
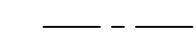
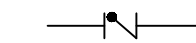
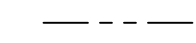
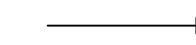
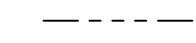
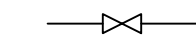
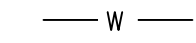
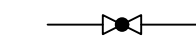
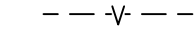
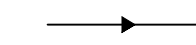
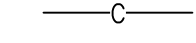
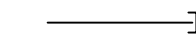
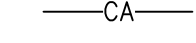
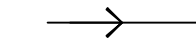
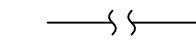






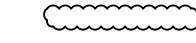
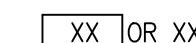
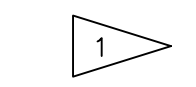
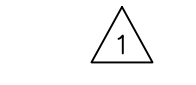



930 18TH PLACE NE
AUBURN, WA 98002

Drawn by:	JAJ/JZ	
Checked:	RF	
Date:	8/17/2023	
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No.	Date	Remarks

PLUMBING LEGEND

PLUMBING ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CIRC	CIRCULATING
CO	CLEAN OUT
COND	CONDENSATE
COORD	COORDINATE
CW	COLD WATER
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FPM	FEET PER MINUTE
FT	FOOT, FEET
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER HOUR
HP	HORSEPOWER
IE	INVERT ELEVATION
IN	INCH
KW	KILOWATT, (1000 WATTS)
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
NC	NORMALLY CLOSE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAT	OUTSIDE AIR TEMPERATURE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
SEC	SEATTLE ENERGY CODE
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SPEC	SPECIFICATIONS
SS	SANITARY SEWER
TDH	TOTAL DYNAMIC HEAD
TPD	TOTAL PRESSURE DROP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VOLT, VENT
VTR	VENT THRU ROOF
WB	WET BULB TEMPERATURE
W/	WITH

	PIPE ELBOW DOWN		THERMOSTAT
	PIPE ELBOW UP		CARBON DIOXIDE SENSOR
	FLANGE		SENSOR
	FLEX CONNECTION		HUMIDISTAT
	TEE OUTLET UP		SWITCH
	TEE OUTLET DOWN		TIMER SWITCH
	AUTOMATIC AIR VENT		LINE, ARCH. BACKGROUND
	BALL VALVE		LIGHT LINE, EXISTING
	BALANCING VALVE		HEAVY LINE, NEW WORK
	BUTTERFLY VALVE		COLD WATER
	CHECK VALVE		HOT WATER
	CLEAN OUT		HOT WATER CIRCULATION
	GATE VALVE		SANITARY SEWER
	GLOBE VALVE		SANITARY VENT
	PIPE SIZE REDUCTION		CONDENSATE DRAIN
	PIPE CAP		COMPRESSED AIR
	DIRECTION OF FLOW		
	BREAK IN PIPE OR DUCT		
	FLOOR CLEAN OUT		
	FLOOR DRAIN		
	FLOOR SINK		
	VENT THROUGH ROOF		
	CLEARANCE REQUIREMENT		
	WORK TO BE REMOVED		
	REVISION CLOUD		
	EQUIPMENT ITEM XX		
	FLAG NOTE		
	REVISION NOTE		
	DETAIL OR SECTION CALLOUT		
	SECTION CUT LINE		
	POINT OF CONNECTION WITH EXISTING		

APPLICABLE CODES

2018 WASHINGTON STATE BUILDING CODE
 2018 WASHINGTON STATE PLUMBING CODE
 2018 WASHINGTON STATE ENERGY CODE

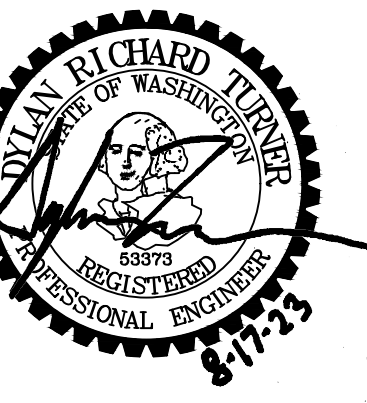
DECHLORINATION NOTES

THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE FOLLOWING PROCEDURE:

1. FLUSH DOMESTIC PIPE SYSTEM WITH POTABLE WATER UNTIL POTABLE WATER APPEARS AT ALL OUTLET POINTS PER SPC 609.9(1).
2. ADMINISTER BASELINE COLIFORM TEST OR APPROVED BACTERIOLOGICAL TEST SHALL BE PRIOR TO THE INTRODUCTION OF ANY WATER-CHLORINE SOLUTION.
3. FILL DOMESTIC WATER SYSTEM WITH A WATER-CHLORINE SOLUTION PER THE PROCEDURE DICTATED BY SPC 609.9(2).
4. FLUSH SYSTEM PER THE PROCEDURE DICTATED BY SPC 609.9(3). SYSTEM SHALL BE FLUSHED UNTIL THE RESIDUAL CHLORINE MEASURED IN THE FLUSH DISCHARGE WATER DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.
5. A LABORATORY CERTIFIED FOR DRINKING WATER IN WASHINGTON STATE SHALL ADMINISTER A BACTERIOLOGICAL TEST AND A WATER QUALITY TEST AFTER A MINIMUM WAITING PERIOD OF 48 HOURS. THESE TESTS SHALL OBTAIN SAMPLES FROM THE FURTHEST FIXTURE FROM THE DOMESTIC WATER MAIN POINT OF CONNECTION AND NOT LESS THAN TWO OTHER LOCATIONS AS PART OF THE DOMESTIC WATER SYSTEM.
6. REPEAT STEPS 1 THROUGH 5, OMITTING STEP 2 IF THE LATEST BACTERIOLOGICAL TEST SHOWS UNSATISFACTORY RESULTS INDICATING CONTAMINATION OR PRESENCE OF COLIFORMS. CONTINUALLY REPEAT PROCEDURE UNTIL TESTING MEETS DRINKING WATER QUALITY REQUIREMENTS.

PLUMBING INDEX

P0.1	PLUMBING LEGEND AND SHEET INDEX
P0.2	PLUMBING NOTES
P0.3	PLUMBING SCHEDULES AND CALCULATIONS
PD1.1	PLUMBING DEMOLITION PLANS
P2.0	PLUMBING PLANS
P2.2	PLUMBING ROOF PLAN
P3.0	PLUMBING RISER DIAGRAMS
P4.0	PLUMBING DETAILS
P4.1	PLUMBING DETAILS



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 AUBURN, WA 98002

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 Checked: RF
 Date: 8/17/2023
 Scale: AS NOTED

Revisions:
 No. Date Remarks

2018 WASHINGTON STATE ENERGY CODE NOTES

1. PROVIDE RECORD DOCUMENTS IN ACCORDANCE WITH SECTION C103.6.1. PROVIDE OPERATION AND MAINTENANCE MANUALS IN ACCORDANCE WITH SECTION C103.6.2. PROVIDE THE OWNER WITH THE COMPLIANCE DOCUMENTS REQUIRED BY SECTION C103.6.3. REFER ALSO TO THE PROJECT SPECIFICATIONS FOR ALL CLOSEOUT AND RECORD DOCUMENT REQUIREMENTS. THE DRAWINGS SHALL INDICATE, AT A MINIMUM, THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, AS-BUILT CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATE, EQUIPMENT TAGS, AND FIELD VERIFIED DIMENSIONS.
2. PROVIDE OWNER TRAINING PER SECTION 103.6.4 AND AS REQUIRED BY THE PROJECT SPECIFICATIONS. OWNER TRAINING MUST TAKE PLACE BEFORE OWNER OCCUPANCY BUT CAN TAKE PLACE AFTER SUBSTANTIAL COMPLETION HAS BEEN APPROVED.
3. SEAL, GASKET, OR WEATHER STRIP ALL ACCESS DOORS AND PANELS THAT OPEN FROM CONDITIONED SPACES TO UNCONDITIONED SPACES AND PER SECTION C402.5.4.
4. PROVIDE VARIABLE SPEED DRIVES FOR ALL FAN AND PUMP MOTORS GREATER THAN OR EQUAL TO 7.5 HP PER SECTION C403.2.3.
5. SERVICE WATER HEATING EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN TABLE C404.2 (NOT INCLUDED)
6. PROVIDE HOT WATER CIRCULATION SYSTEMS PER THE PLANS AND SPECIFICATIONS. CIRCULATING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION C404.7 AND SHALL BE CAPABLE OF PERFORMING THE SPECIFIED SEQUENCE OF OPERATIONS. INSULATE ALL HEATED WATER CIRCULATION PIPE MINIMUM 1" THICKER THAN THE VALUES LISTED IN TABLE C403.10.3.
7. INSULATE PLUMBING PIPE PER THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND PER SECTION C403.10.3 AND PER TABLE C403.2.9.

TABLE C403.10.3 – MINIMUM PIPE INSULATION THICKNESS (INCHES)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU x IN/(H x FT² x °F)	MEAN RATING TEMPERATURE, °F	<1"	1" TO < 1-1/2"	1-1/2" TO < 4"	4" TO <8"	≥8"
>350	0.32–0.34	250	4.5	5.0	5.0	5.0	5.0
251–350	0.29–0.32	200	3.0	4.0	4.5	4.5	4.5
201–250	0.27–0.30	150	2.5	2.5	2.5	3.0	3.0
141–200	0.25–0.29	125	1.5	1.5	2.0	2.0	2.0
105–140	0.21–0.28	100	1.0	1.0	1.5	1.5	1.5
40–60	0.21–0.27	75	0.5	0.5	1.0	1.0	1.0
<40	0.20–0.26	75	0.5	1.0	1.0	1.0	1.5

NOTE: REFER TO 2018 WSEC FOR TABLE FOOTNOTES.

8. PROVIDE BALANCING DEVICES IN ALL CIRCULATING WATER BRANCH PIPE RUNS TO FIXTURES AND OUTLETS AS REQUIRED BY SECTION C408.2.2.2, EXCLUDING ANY EXCEPTIONS, AND AS INDICATED ON THE CONTRACT DOCUMENTS. PROVIDE ALL BALANCING DEVICES NEEDED TO ADJUST EQUIPMENT TO THE DESIGN FLOW VALUES INDICATED ON THE PLANS AND SCHEDULES.
9. PROVIDE ISOLATION VALVES FOR ALL EQUIPMENT CONNECTED TO FLUID PIPING.
10. PROVIDE ELECTRIC HOT WATER HEATERS WITH MINIMUM R-10 INSULATION PAD UNDER THE TANK PER SECTION C404.5 OF THE WSEC.
11. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2.2 OF THE WSEC AND AS INDICATED ON THE CONTRACT DOCUMENTS.
12. RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6.1 OF THE WSEC. THE DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.
13. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS SPECIFIED AND PER SECTION C103.6.2 OF THE WSEC.
14. PLUMBING SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2 OF THE WSEC.
15. CONTRACTOR SHALL PROVIDE COMMISSIONING AND REPORT OF COMMISSIONING SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408. COMMISSIONING SHALL CONSIST OF A COMMISSIONING PLAN, BALANCING, FUNCTIONAL PERFORMANCE TESTING, POST CONSTRUCTION COMMISSIONING, TRAINING, REPORTS AND ACCEPTANCE. SUBMIT COMMISSIONING COMPLIANCE CHECKLIST TO BUILDING OFFICIAL UPON COMPLETION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
16. MOTOR EFFICIENCY SHALL NOT BE LESS THAN THE MINIMUM AS REQUIRED BY SECTION C405.8 FOR FULL LOAD EFFICIENCIES.

2018 WASHINGTON STATE PLUMBING CODE (UPC AMENDMENTS) NOTES

1. PROVIDE HANGERS AND SUPPORTS FOR ALL PIPE AND EQUIPMENT. HANGER ROD SIZES SHALL COMPLY WITH TABLE 313.6 AND SUPPORTS SHALL COMPLY WITH TABLE 313.3.

TABLE 313.3 – HANGERS AND SUPPORTS

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST	LEAD AND OAKUM	5 FEET, EXCEPT 10 WHERE 10 FOOT LENGTHS ARE INSTALLED ^{1,2,3}	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
	COMPRESSION GASKET	EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT ^{1,2,3}	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
CAST IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT ^{1,2,3,4}	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER AND COPPER-ALLOYS	SOLDERED, BRAZED, THREADED OR MECHANICAL	1 1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET ⁵
STEEL PIPE FOR WATER OR DWV	THREADED OR WELDED	3/4 INCH AND SMALLER, 10 FEET; 2 INCHES AND LARGER, 12 FEET	EVERY OTHER FLOOR, NOT TO EXCEED 25 FEET ⁵
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1 1/4 INCHES AND LARGER, 10 FEET	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1 1/4 INCHES EVERY FLOOR LEVEL
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSIONS EVERY 30 FEET ³	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET
CPVC	SOLVENT CEMENTED	1 INCH AND SMALLER, 3 FEET; 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
CPVC-AL-CPVC	SOLVENT CEMENTED	1/2 INCH, 5 FEET; 3/4 INCH, 65 INCHES; 1 INCH, 6 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
LEAD	WIPED OR BURNED	CONTINUOUS SUPPORT	NOT TO EXCEED 4 FEET
STEEL	MECHANICAL	IN ACCORDANCE WITH STANDARDS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION	
PEX	COLD EXPANSION, INSERT AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PEX-AL-PEX	METAL INSERT AND METAL COMPRESSION	1/2 INCH, 3/4 INCH, 1 INCH (ALL SIZES 98 INCHES)	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PE-AL-PE	METAL INSERT AND METAL COMPRESSION	1/2 INCH, 3/4 INCH, 1 INCH (ALL SIZES 98 INCHES)	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PE-RT	INSERT AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
POLYPROPYLENE (PP)	FUSION WELD (SOCKET, BUTT, SADDLE, ELECTROFUSION), THREADED (METAL THREADS ONLY), OR MECHANICAL	1 INCH AND SMALLER, 32 INCHES; 1 1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES

TABLE FOOTNOTES:

1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18 INCHES.
2. BRACE NOT TO EXCEED 40 FOOT INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
4. HANGERS SHALL NOT BE PLACED ON THE COUPLING.
5. VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.

TABLE 313.6 – HANGER ROD SIZES

PIPE AND TUBE SIZE (INCHES)	ROD SIZE (INCHES)
1/2 – 4	3/8
5 – 8	1/2
10 – 12	5/8

2. ALL WASTE AND VENT PIPING SHOWN ON PLAN SHALL BE INSTALLED AT 1/4" PER LF OR 2% SLOPE IF NOT OTHERWISE NOTED ON PLAN. SHALLOWER SLOPES SHALL ONLY BE INSTALLED WITH WRITTEN PERMISSION OF THE ENGINEER OF RECORD AND WITH APPROVAL BY THE AHJ.
3. PROVIDE CLEANOUTS FOR STORM DRAINAGE THAT COMPLY WITH SECTION 1101.13.
4. AIR ADMITTANCE VALVES SHALL ONLY BE PROVIDED WHERE SPECIFICALLY SHOWN ON THE APPROVED PLUMBING PERMIT PLANS AND AS APPROVED BY THE AHJ.
5. VENTS THAT EXTEND THROUGH THE ROOF SHALL TERMINATE NO LESS THAN 6" ABOVE THE ROOF LINE AND AT LEAST 12" FROM ANY VERTICAL SURFACE. VENTS SHALL NOT TERMINATE WITHIN 10 FT. OF A MECHANICAL AIR INTAKE OR OPENING INTO THE BUILDING.
6. ALL PIPE, TUBE, FITTINGS SOLVENT CEMENT, SEALANTS AND SOLDERS/FLUX USED IN POTABLE WATER SYSTEMS SHALL COMPLY WITH NSF 61 PER SECTION 604.1 AND PER TABLE 604.1 (NOT INCLUDED)
7. ALL MATERIALS AND EQUIPMENT INTENDED TO CONVEY POTABLE WATER FOR USE BY HUMANS SHALL NOT EXCEED THE LEAD CONTENT MAXIMUMS LISTED IN SECTION 604.2.
8. IN BUILDINGS WITH BOTH POTABLE AND NON-POTABLE WATER, THE PIPE SHALL BE IDENTIFIED TO DIFFERENTIATE THE TWO PER SECTION 601.3. REFER ALSO TO THE REQUIREMENTS OF THE SPECIFICATIONS.
9. PROVIDE CLEANOUTS AS SHOWN ON PLAN AND, AT A MINIMUM, TO COMPLY WITH THE REQUIREMENTS OF SECTION 707.0.
10. PROVIDE SUDS RELIEF ARRANGEMENT OF PIPE PER SECTION 711.1 WHERE SUDS PRODUCING FIXTURES DISCHARGE INTO A RISER SERVING 3 OR MORE STORIES.
11. PROVIDE ALL HOT WATER HEATING DEVICES WITH PRESSURE AND TEMPERATURE LIMITING SAFETY DEVICES PER SECTION 504.4 AND 504.5.
12. THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT ALL OUTLET POINTS. THE SYSTEM SHALL THEN BE FILLED WITH A WATER-CHLORINE SOLUTION PER SPC 609.9(2) AND THEN THE SYSTEM SHALL BE FLUSHED PER SPC 609.9(3).



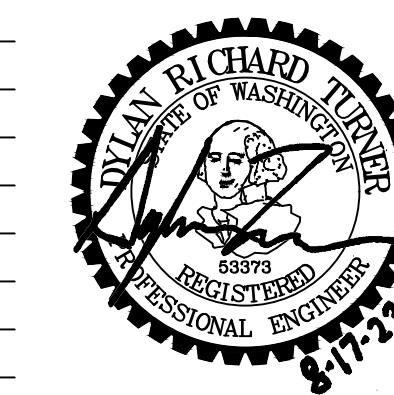
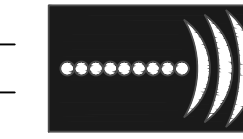
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PLUMBING FIXTURE SCHEDULE													
BASIS OF DESIGN				CONNECTION DATA				ELECTRICAL SUPPLY	FLOW DATA	NOTES			
TAG	TYPE	MANUFACTURER	MODEL/PART NO.	DESCRIPTION	CW	HW	W				ID W		
DF-1	BI-LEVEL DRINKING FOUNTAIN	HALSEY TAYLOR	HRF-SEBP	ADA-COMPLIANT BARRIER-FREE WALL-MOUNTED BI-LEVEL HEAVY DUTY STAINLESS STEEL NON-REFRIGERATED, NON-FILTERED DUAL DRINKING FOUNTAINS WITH ONE-PIECE CHROME PLATED BUBBLER, HEAVY DUTY STEEL BACKPLATE, AND FRONT PUSHBUTTONS. LEAD FREE, NSF 61 CERTIFIED.	1/2"		1 1/4"		2				
FCO	FLOOR CLEANOUT	ZURN	CO-2450	ROUND, ADJUSTABLE FLOOR CLEANOUT WITH 5 3/16" DIAMETER NICKEL COVER. PVC OR ABS BODY. ABS TAPER THREAD PLUG.			PER PLAN						
HB-1	HOSE BIBB	PRIER	P-264	ANTI-SIPHON FREEZE PROOF WALL HYDRANT, WITH VACUUM BREAKER, KEY OPERATED WITH KEY LOCK. COORDINATE WALL THICKNESS WITH FIELD CONDITIONS AND PROCURE AS REQUIRED. EP INLET, UNION ELBOW WITH 3/4" MALE PIPE THREAD. EXTEND EXISTING PIPING TO THE LOCATION OF THE HOSE BIBB.	VERIFY IN FIELD								
FFD-1	FLOOR DRAIN WITH FUNNEL	ZURN	Z415B	GENERAL PURPOSE FLOOR DRAIN. 6" DIAMETER STRAINER, CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE ADJUSTABLE STRAINER HEAD. TRAP PRIMER CONNECTION WHERE SHOWN IN ROOM WITH TRAP PRIMER. REFER TO PLANS FOR DRAIN CONNECTION SIZE. PROVIDE FUNNEL.			PER PLAN		5				
L-1	UNDERMOUNT LAVATORY	AMERICAN STANDARD	0614.3	ADA-COMPLIANT UNDERMOUNT 23-5/8" W x 16-5/8" D x 8-1/4"H LAVATORY SINK IN VITREOUS CHINA, 21-1/8"W x 14"D x 6"D BOWL. FAUCET: BATTERY-OPERATED, TOUCHLESS, ELECTRONIC, SENSOR-ACTIVATED, DECK-MOUNTED FAUCET IN POLISHED CHROME WITH SOLID CAST BODY. DELTA 591T12 OR APPROVED EQUAL. PROVIDE METAL DRAIN WITH POP-UP TYPE FITTING AND PLATED FLANGE AND STOPPER. AERATOR: FEMALE-THREADED TAMPER PROOF CHROME PLATED BRASS AERATOR WITH WIDE MULTI-STREAM FLOW.	1/2"	1/2"	1 1/2"		0.5 GPM	1, 4			
S-1	UNDERMOUNT SINK	ELKAY	ELUHAD211555	ADA-COMPLIANT UNDERMOUNT 23-1/2"W x 18-1/4"D x 5-3/8"D SINGLE BOWL 18 GAUGE 304 STAINLESS STEEL SINK. PROVIDE WITH MANUFACTURER'S STAINLESS STEEL BODY STRAINER BASKET WITH RUBBER SEAL AND STAINLESS STEEL TAILPIECE. PROVIDE WITH ELKAY LKGT1041 SINGLE-HOLE KITCHEN FAUCET WITH PULL-OUT SPRAY AND LEVER HANDLE.	1/2"	1/2"	2"		1.75 GPM	1			
TMV-1	TEMPERATURE MIXING VALVE (CENTRAL)	LEONARD	TA-LF-F	LOW-LEAD CERTIFIED THERMOSTATIC MIXING VALVE WITH SOLID BIMETAL THERMOSTAT DIRECTLY LINKED TO VALVE PORTING, INTEGRAL COMBINATION CHECKSTOPS, MANUALLY ADJUSTABLE TEMPERATURE SETTING, INTERNAL PARTS IN LEAD-FREE BRONZE, LEAD-FREE BRASS, AND STAINLESS STEEL. PROVIDE FACTORY SUPPLIED DIAL THERMOMETER.	1/2"	1/2"			0.5 GPM MIN.				
TMV-2	TEMPERATURE MIXING VALVE (POINT-OF-USE)	LEONARD	170A-LF	LOW-LEAD CERTIFIED POINT-OF-USE THERMOSTATIC MIXING VALVE WITH COLD-WATER BYPASS, INTEGRAL INLET CHECKS, STAINLESS STEEL SCREENS, VANDAL RESISTANT AND VANDAL RESISTANT LOCKNUT.	1/2"	1/2"			0.25 GPM - 4.0 GPM				
TP-1	TIMED ELECTRONIC TRAP PRIMER	PRECISION PLUMBING PRODUCTS	SMP-500-115V	1/2" ELECTRONIC PRIMING ASSEMBLY CAPABLE OF PRIMING 1-4 TRAPS. SUB-MINIATURE SOLENOID VALVE CONTROLLED BY MANUALLY ADJUSTABLE ELECTRONIC TIMER. INTEGRAL AIR GAP. FACTORY SUPPLIED 6'-0" 3-PRONG ELECTRICAL CORD. MAKE-UP LINE MAXIMUM LENGTH OF 20 FEET.	1/2"			115VAC - 1PH - 60 Hz RECEPTACLE	2 OZ./DAY	3			
WC-1	WATER CLOSET	KOHLER	K-31621-0	COMFORT HEIGHT ELONGATED TOILET IN VITREOUS CHINA WITH LEFT-HAND TRIP LEVER. UNASSISTED FLAPPERLESS OPERATION AND CONCEALED FILL VALVE. MANUFACTURER SUPPLIED WAX RING, FLOOR BOLTS, AND CAPS. PROVIDE WITH KOHLER BREVIA QUIET-CLOSE ELONGATED TOILET SEAT, K-20110, IN WHITE.	1/2"		3"		1.28 GPF	1			
WC-2	WATER CLOSET	KOHLER	K-31621-RA-0	COMFORT HEIGHT ELONGATED TOILET IN VITREOUS CHINA WITH RIGHT-HAND TRIP LEVER. UNASSISTED FLAPPERLESS OPERATION AND CONCEALED FILL VALVE. MANUFACTURER SUPPLIED WAX RING, FLOOR BOLTS, AND CAPS. PROVIDE WITH KOHLER BREVIA QUIET-CLOSE ELONGATED TOILET SEAT, K-20110, IN WHITE.	1/2"		3"		1.28 GPF	1			
WCO	WALL CLEANOUT	ZURN	Z1441-VP	DURA-COATED CAST IRON BODY WALL CLEANOUT WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG. SMOOTH, ROUND ACCESS COVER IN STAINLESS STEEL WITH SECURING SCREW. PROVIDE OPTION FOR VANDAL-PROOF SECURED TOP.			PER PLAN						

NOTES:
1. PROVIDE WITH BRAIDED STEEL SUPPLY HOSES, AND LEAD-FREE CERTIFIED 1/4" TURN 90 DEGREE ANGLE STOP VALVES.
2. SUPPLY AND INSTALL TRAP AND SERVICE SUPPLY STOP PER MANUFACTURER'S REQUIREMENTS.
3. COORDINATE POWER SUPPLY WITH ELECTRICAL.
4. PROVIDE TMV-2.
5. PROVIDE TP-1 IN ROOM.

EXPANSION TANK SIZING CALCULATION MATRIX			
HOT WATER SYSTEM VOLUME CALCULATION			
TYPE	SIZE	QTY.	VOLUME (GAL)
HOT WATER PIPING	3/4"	140 FT	18.4
	1"	150 FT	
	1 1/2"	50 FT	
HPHWH-1 STORAGE	50 GAL.	1	50
TOTAL VOLUME			68.4
EXPANSION TANK SIZING REQUIREMENTS			
DATUM	VALUE	UNIT	
TOTAL SYSTEM CONTENT	75.2	GAL	
MIN. TEMP	55	F	
MAX TEMP	160	F	
EXPANSION FACTOR	0.0206	--	
WATER EXPANSION	1.55	GAL	
MIN PRESSURE	55	PSIG	
MAX PRESSURE	150	PSIG	
ACCEPTANCE FACTOR	0.58	--	
MINIMUM TANK VOLUME	2.69	GAL	
NOTES: 1. REPORTED HOT WATER PIPING VOLUME INCLUDE A 20% SAFETY FACTOR. 2. TOTAL SYSTEM CONTENT INCLUDES AN ADDITIONAL 10% SAFETY FACTOR. 3. CALCULATION RESULTS ARE TO CONFIRM DESIGN ACCEPTABILITY. REFER TO EXPANSION TANK SCHEDULE FOR INFORMATION ON BASIS OF DESIGN.			

PUMP SCHEDULE																	
BASIS OF DESIGN					DESIGN CONDITIONS		OPERATING POINT		ELECTRICAL DATA			PHYSICAL DATA				NOTES	
TAG	SERVICE	MANUFACTURER	MODEL	TYPE	FLOW (GPM)	HEAD (FT)	FLOW (GPM)	HEAD (FT)	MOTOR SIZE	FLA	VOLT-PH.-FREQ.	CONN. SIZE	LENGTH	DEPTH	HEIGHT		WEIGHT (LBS.)
CP-1	HOT WATER RECIRC.	GRUNDFOS	UP 15-10 B7	IN-LINE CIRCULATOR	1	0.5	1	5.1	25 W	0.22	115VAC - 1PH - 60Hz	3/4"	6 3/8"	3 1/2"	5 1/4"	5.73	1, 2, 3

NOTES:
1. PROVIDE MANUFACTURER'S DIELECTRIC ISOLATION VALVES.
2. PROVIDE MANUFACTURER'S AQUASTAT CONTROLS.
3. COORDINATE WITH ELECTRICAL TO PROVIDE 7-DAY PROGRAMMABLE TIMING CONTROLS FOR POWER SUPPLY.

HOT WATER EXPANSION TANK SCHEDULE														
BASIS OF DESIGN				CAPACITY DATA				PHYSICAL DATA						NOTES
TAG	SERVICE	MANUFACTURER	MODEL	TYPE	GROSS VOL. (GAL)	MAXIMUM ACCEPTED VOL. (GAL)	MAX. OPER. TEMP. (F)	MAX. PRESS. (PSIG)	CONN. SIZE	DIAMETER	HEIGHT	WEIGHT (LBS.)		
ET-1	HPHWH-1	AMTROL	ST-12C-DD	DIAPHRAGM, IN-LINE	6.4	3.2	200	150	3/4" NPTM	8"	1'-2"	26	1	

NOTES:
1. FIELD FABRICATE SEISMIC RESTRAINTS.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE													
BASIS OF DESIGN					DESIGN CONDITION		PHYSICAL DATA				NOTES		
TAG	TYPE	MANUFACTURER	MODEL	SIZE	FLOW (GPM)	PRESS. DROP (PSI)	LENGTH	DEPTH	HEIGHT	WEIGHT (LBS.)			
RPBP-1	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY - SMALL	WATTS	LF909S	2"	25	10	25 15/16"	5 1/4"	11 5/8"	40	1, 2, 3, 4		

NOTES:
1. PROVIDE MANUFACTURER'S DRAIN LINE AIR GAP FITTING (#909AG).
2. OPTION FOR FACTORY INSTALLED QUARTER-TURN BALL VALVES.
3. OPTION FOR FACTORY INSTALLED BRONZE STRAINER.
4. REFER TO REDUCED PRESSURE BACKFLOW PREVENTER DETAIL FOR ADDITIONAL INFORMATION.

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE														
BASIS OF DESIGN				MECHANICAL DATA			ELEC. DATA		PHYSICAL DATA			NOTES		
TAG	MANUFACTURER	MODEL	TYPE	NOM. CAP. (GAL)	RATED CAP. (GAL)	1-HOUR CAP. (GAL)	EFFICIENCY (UEF)	REFRIG.	MOCP	VOLT/PH.	DIAMETER		HEIGHT	WEIGHT (LBS)
HPHWH-1	AO SMITH	HPTU-50CTA	TANKED HYBRID ELECTRIC-HEAT PUMP WITH CTA-2045-A PORT	50	46	66	3.45	R-134A	30	240VAC/1P H	22"	5'-3"	196	1, 2, 3, 4, 5

NOTES:
1. SCHEDULED WEIGHT IS LISTED SHIPPING WEIGHT.
2. CTA-2045 PORT PROVIDED AS REQUIRED BY WAC 194-24-180.
3. CTA-2045 PORT CONNECTION BY UTILITY PROVIDER. BUILDING OWNER TO COORDINATE WITH UTILITY.
4. REFER TO HOT WATER HEATER PIPING DIAGRAM FOR ADDITIONAL INFORMATION.
5. PROVIDE OPTIONAL DUCT ADAPTER KIT. COORDINATE WITH MECHANICAL TO PROVIDE DUCTED CONNECTION TO ADJACENT ROOM FOR HEAT PUMP AIR INTAKE.

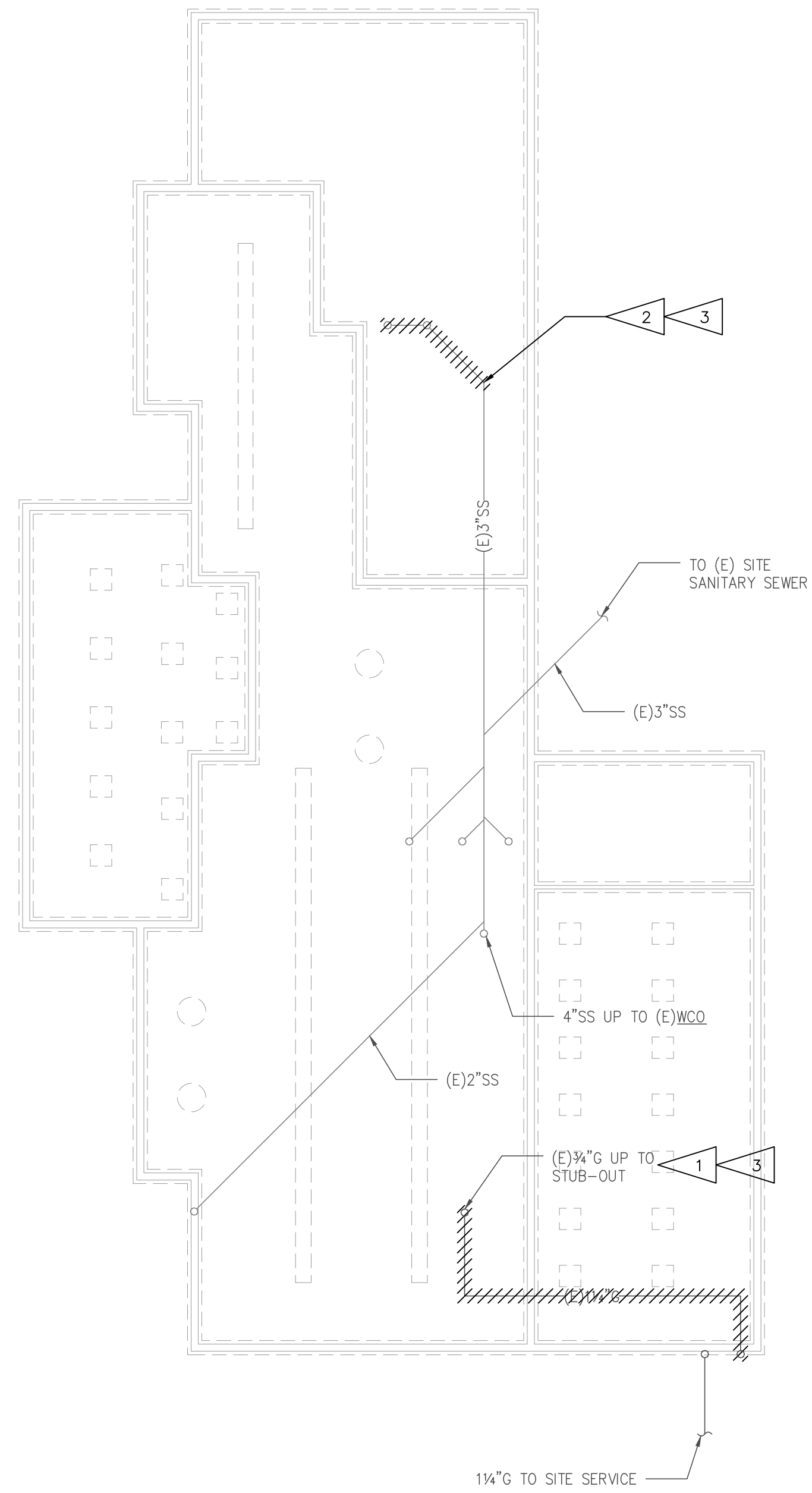


DRAWING NOTES:

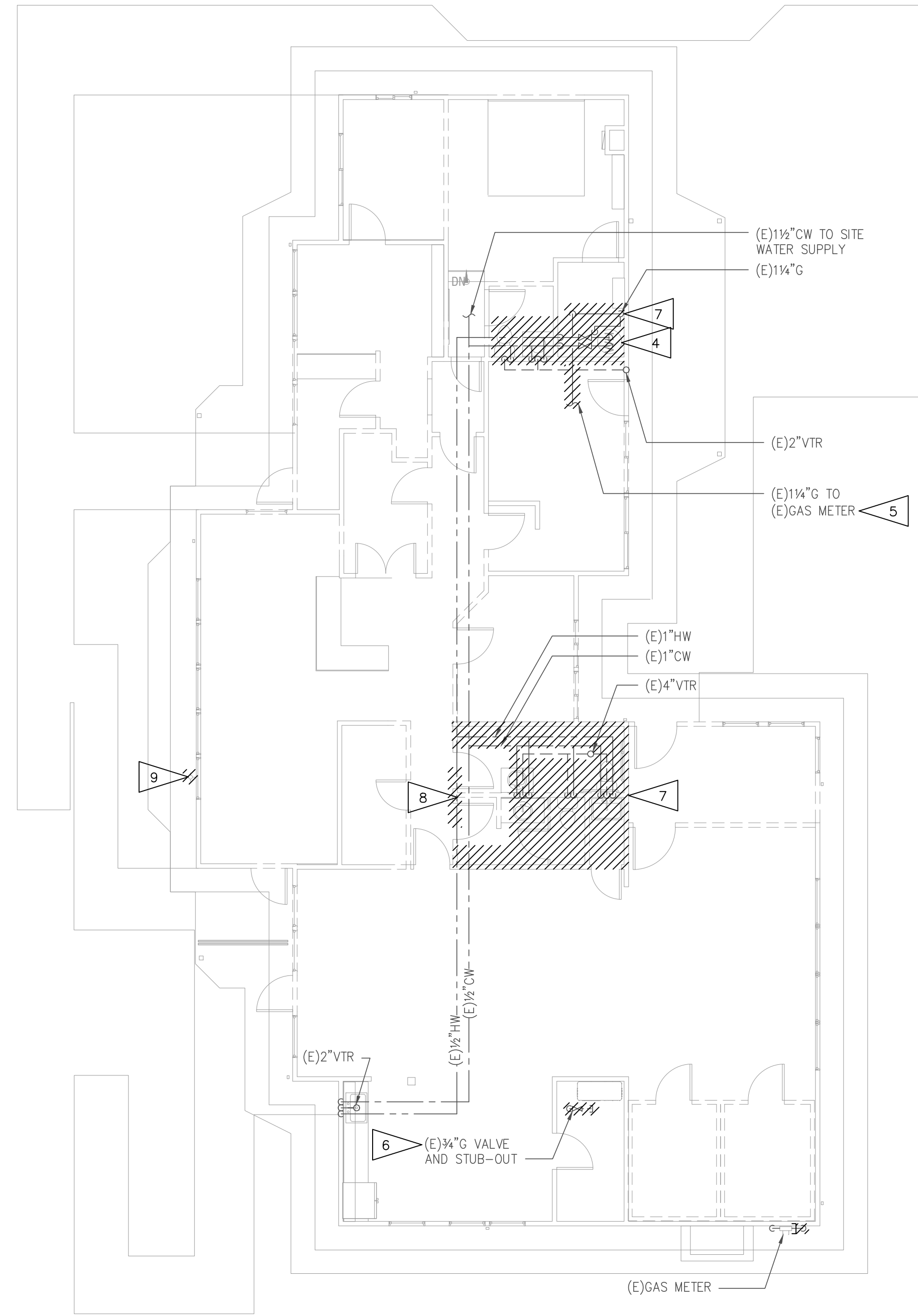
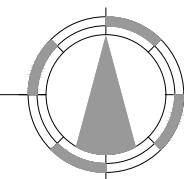
1. EXTENT OF DEMOLITION IS DIAGRAMMATIC.
2. FULL EXTENT OF EXISTING PLUMBING SYSTEMS HAVE NOT BEEN VERIFIED. THE SIZE AND ROUTING OF THE EXISTING SYSTEMS AS SHOWN ON THE DRAWINGS ARE BASED ON RECORD DRAWINGS AND MAY NOT BE REPRESENTATIVE OF EXISTING CONDITIONS. FIELD-VERIFY THE EXISTING PLUMBING SYSTEMS PRIOR TO DEMOLITION. COORDINATE WITH OTHER TRADES TO ADJUST TO EXISTING CONDITIONS AS REQUIRED.

FLAG NOTES:

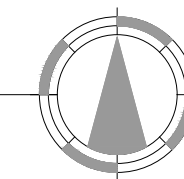
- 1 (E)G PIPING UP TO FLOOR ABOVE. DEMOLISH ALL G PIPING, INCLUDING ANY NOT SHOWN ON THE DRAWINGS, BACK TO THE (E)G METER CONNECTION.
- 2 DEMOLISH ANY (E)SS PIPING SERVING BATHROOM GROUP RUN THROUGH CRAWL SPACE TO THE FURTHEST EXTENT SHOWN ON DRAWINGS OR UNTIL PIPING PENETRATES SLAB ON GRADE, WHICHEVER IS SHORTER. CAP AND SEAL ANY PENETRATIONS AT SLAB.
- 3 PATCH, SEAL, AND WEATHERPROOF (E) PENETRATIONS LEFT OVER FROM DEMOLITION OF PIPING SYSTEMS. INSULATE REPAIRS TO MATCH (E) CONDITIONS. (E) PENETRATIONS THROUGH (E) BUILDING STRUCTURE TO BE REPLACED ARE NOT REQUIRED TO BE PATCHED, REFER TO ARCH DRAWINGS FOR ADDITIONAL INFORMATION.
- 4 REMOVE EXISTING GAS-FIRED DOMESTIC WATER HEATER, ASSOCIATED FLUE PIPING, GAS PIPING AND VALVES.
- 5 (E)G PIPING CONTINUES THROUGH ATTIC. DEMOLISH ALL G PIPING IN ATTIC BACK TO (E)G METER.
- 6 CAP G SUPPLY AT (E)G METER. (E)METER SHALL BE ABANDONED IN PLACE.
- 7 DEMOLISH EXISTING BATHROOM GROUPS. DEMOLISH HW AND CW BACK TO MAINS AND CAP FOR FUTURE CONNECTIONS.
- 8 DEMOLISH SHORT LINEAR RUN OF HW MAIN FOR FUTURE LOOPED CONNECTION SERVING NEW BATHROOMS. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- 9 (E)HOSE BIB TO BE REPLACED.



1 PLUMBING FOUNDATION DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 PLUMBING FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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PLUMBING
DEMOLITION PLANS
PD1.1

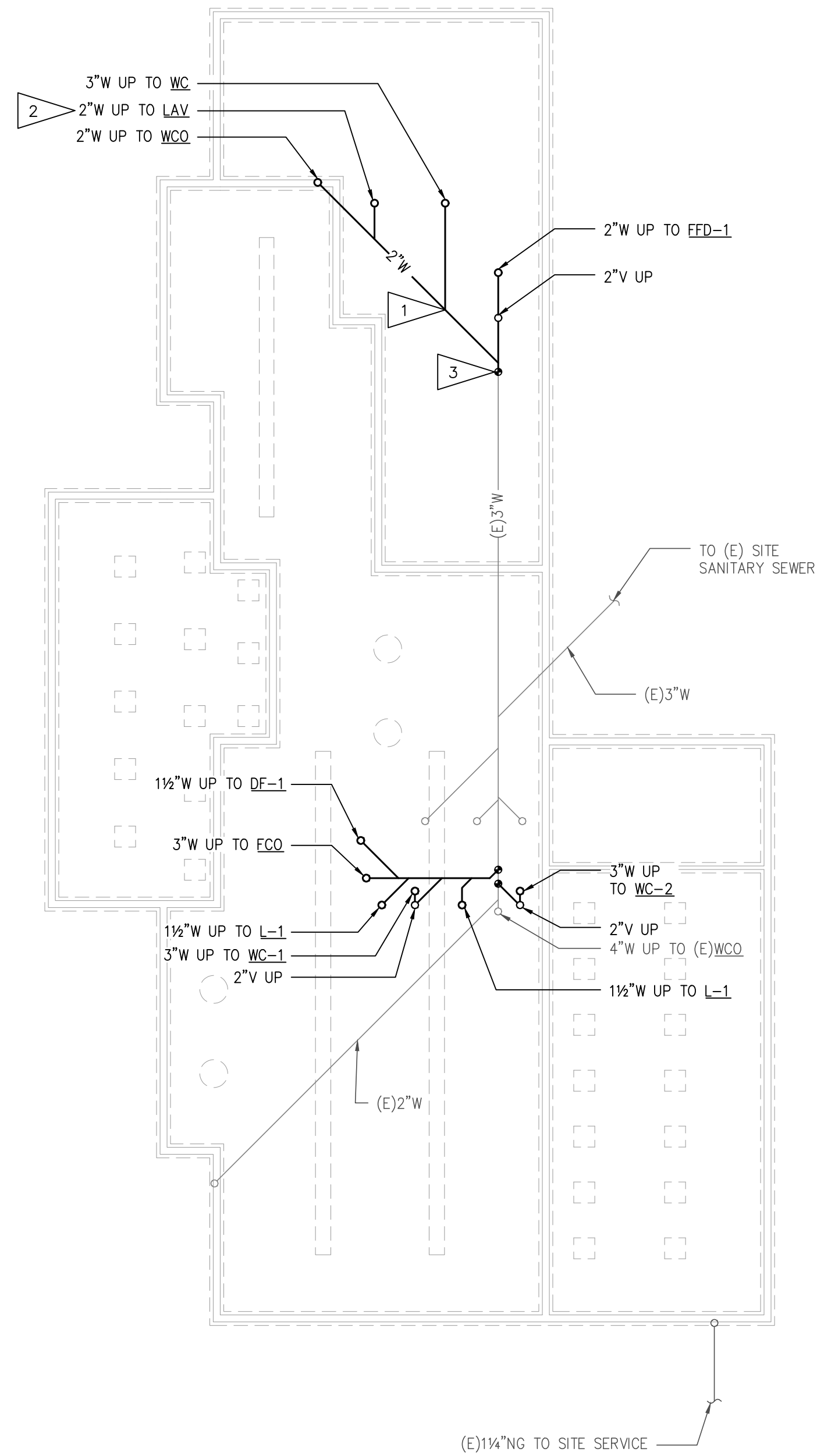


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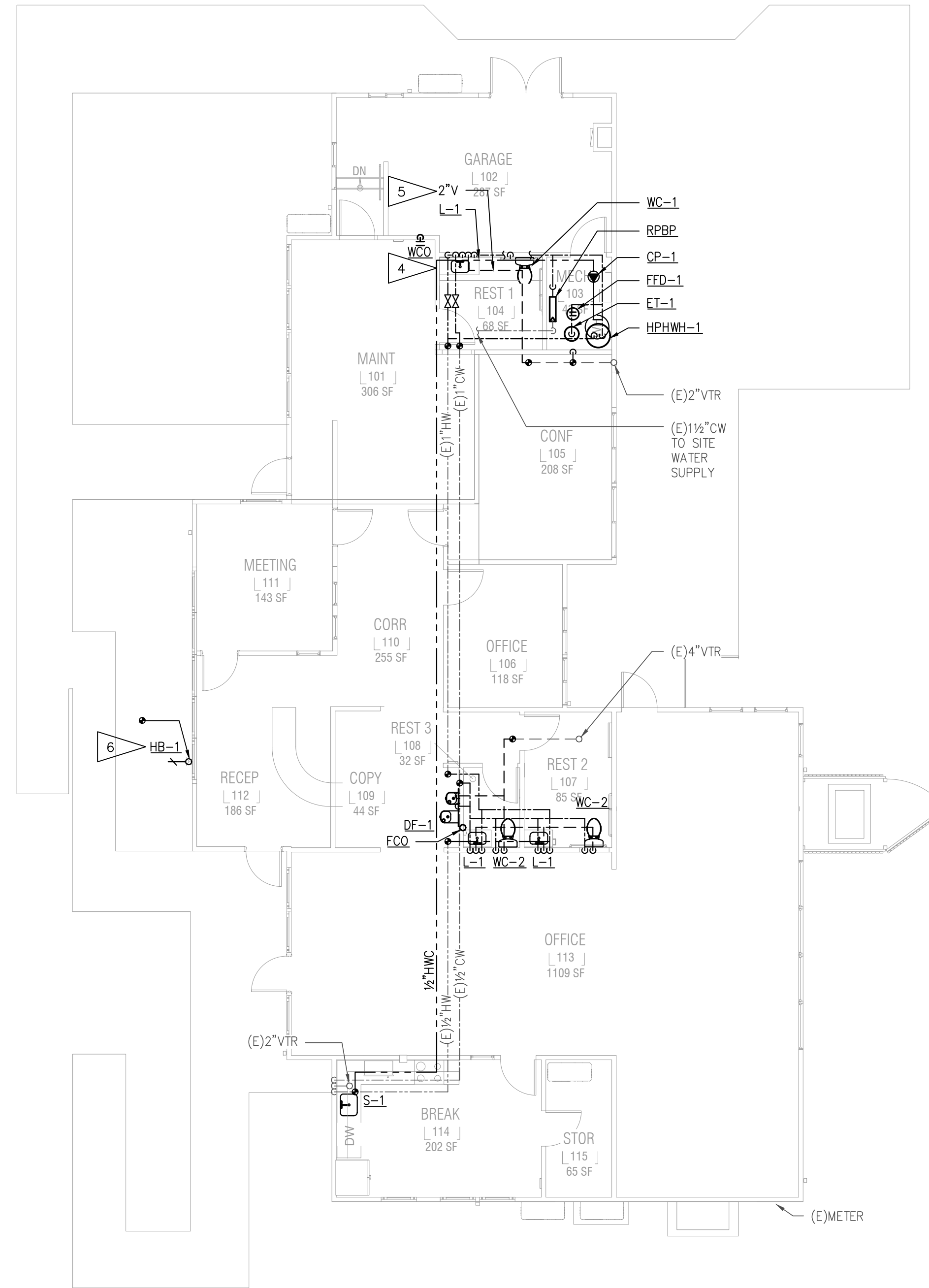
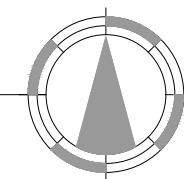
1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
2. LOCATIONS OF POINTS OF CONNECTION TO EXISTING SYSTEM ARE APPROXIMATE. VERIFY IN FIELD. FIELD—VERIFY LOCATION, ORIENTATION, AND ROUTING OF EXISTING SANITARY SEWER LINE BY SCANNING AND/OR SCOPING, PRIOR TO SLAB CUTTING.

FLAG NOTES:

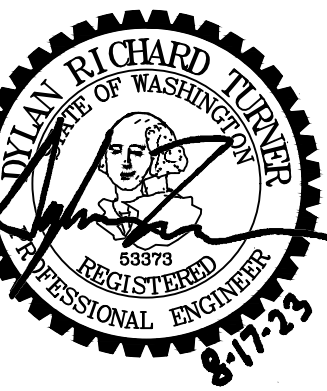
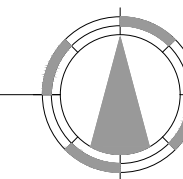
1. START OF HORIZONTAL WET VENTING SYSTEM SERVING (N) BATHROOM GROUP. WET VENT SIZED PER 2018 WSPC SECTION 908.2.2.
2. VENTED LAVATORY SHALL SERVE AS THE WET VENT FOR THE BATHROOM GROUP IN COMPLIANCE WITH 2018 WSPC SECTION 908.2.1.
3. SAW-CUT EXISTING SLAB—ON-GRADE AS REQUIRED FOR NEW WORK. INFILL AND PATCH SLAB AFTER WORK HAS CONCLUDED.
4. NEW HWC LINE. ROUTE HWC IN PARALLEL WITH EXISTING CW AND HW PIPING AND CONNECT TO HW BRANCH SERVING THE FURTHEST FIXTURE DOWNSTREAM FROM THE HOT WATER HEATER.
5. 2"V SHALL SERVE AS THE DRY VENT CONNECTION TO BATHROOM GROUP'S HORIZONTAL WET VENT SYSTEM IN ACCORDANCE WITH 2018 WSPC SECTION 908.2.1.
6. PROVIDE NEW HOSE BIB AT EXISTING LOCATION. VERIFY (E)CW CONNECTION IN FIELD.



1 PLUMBING FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



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



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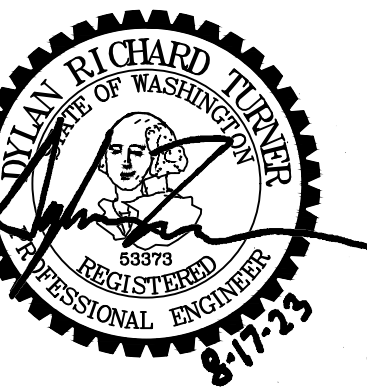
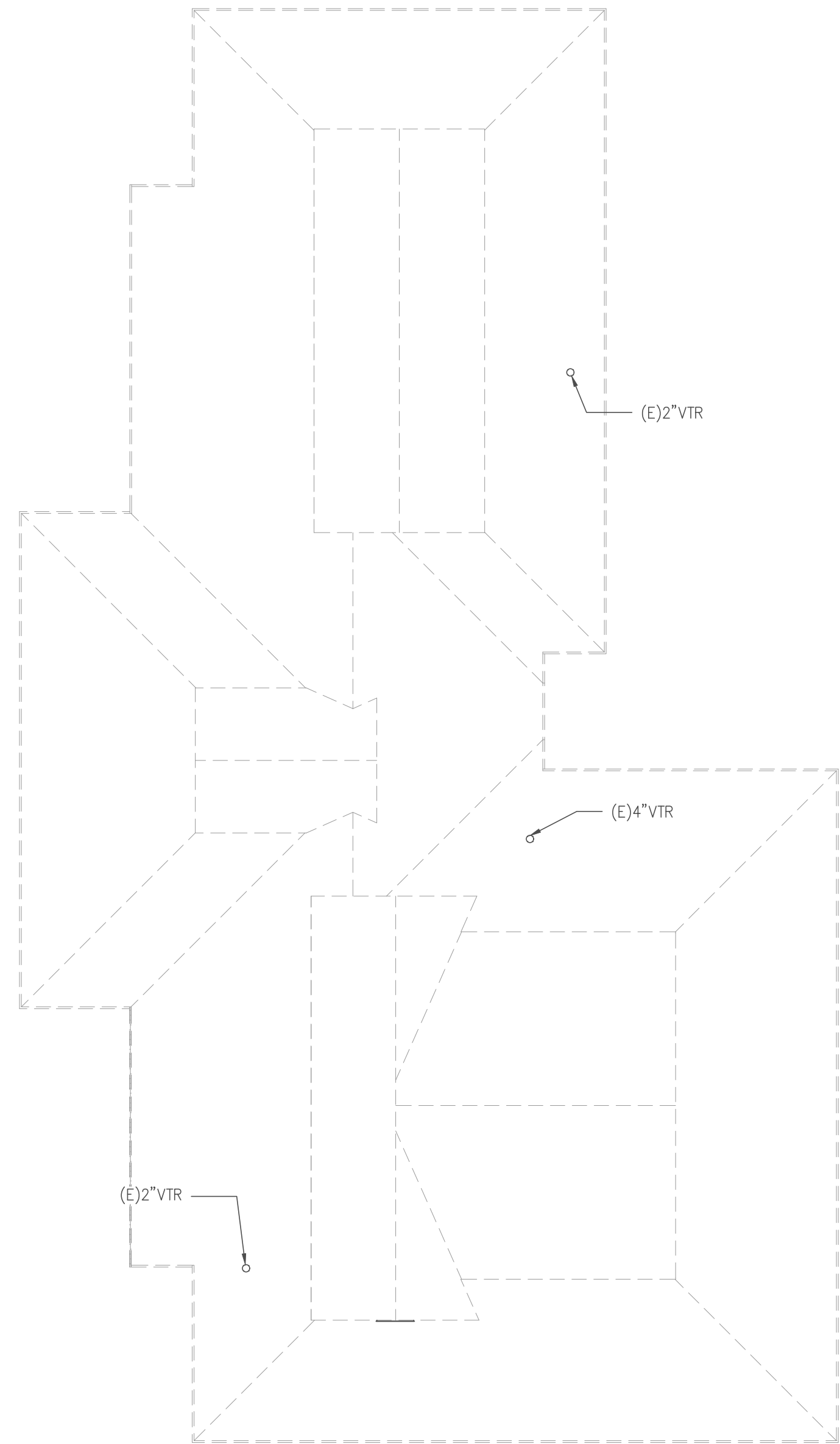
DRAWING NOTES:

1. PIPING IS DIAGRAMMATIC. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO AVOID WORK OF OTHER TRADES AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.

THE GREENBUSCH GROUP, INC.



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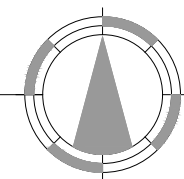
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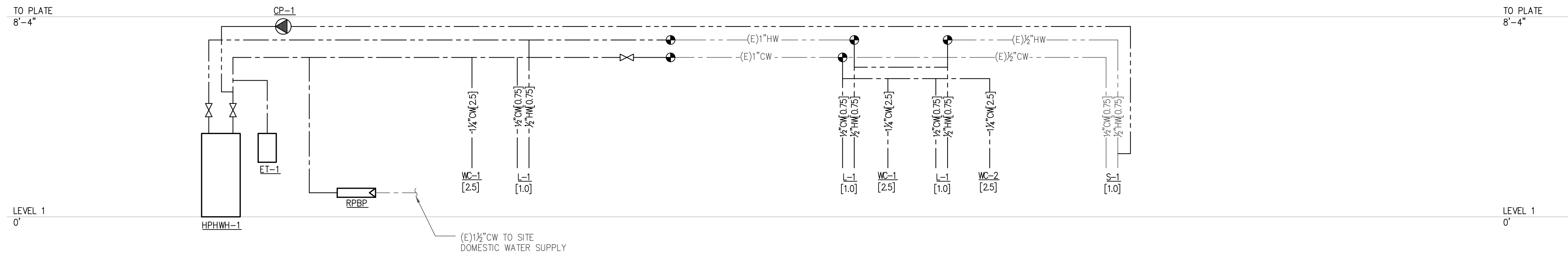
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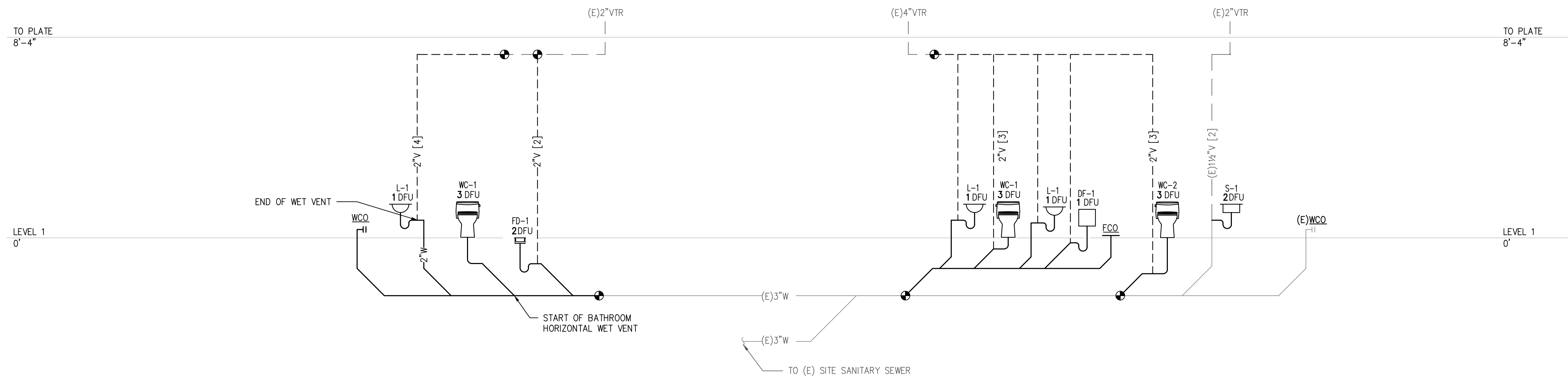
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1 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

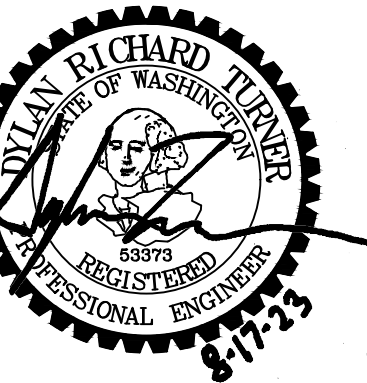




1 DOMESTIC WATER RISER DIAGRAM
P3.0 SCALE: NTS



2 WASTE AND VENT RISER DIAGRAM
P3.0 SCALE: NTS



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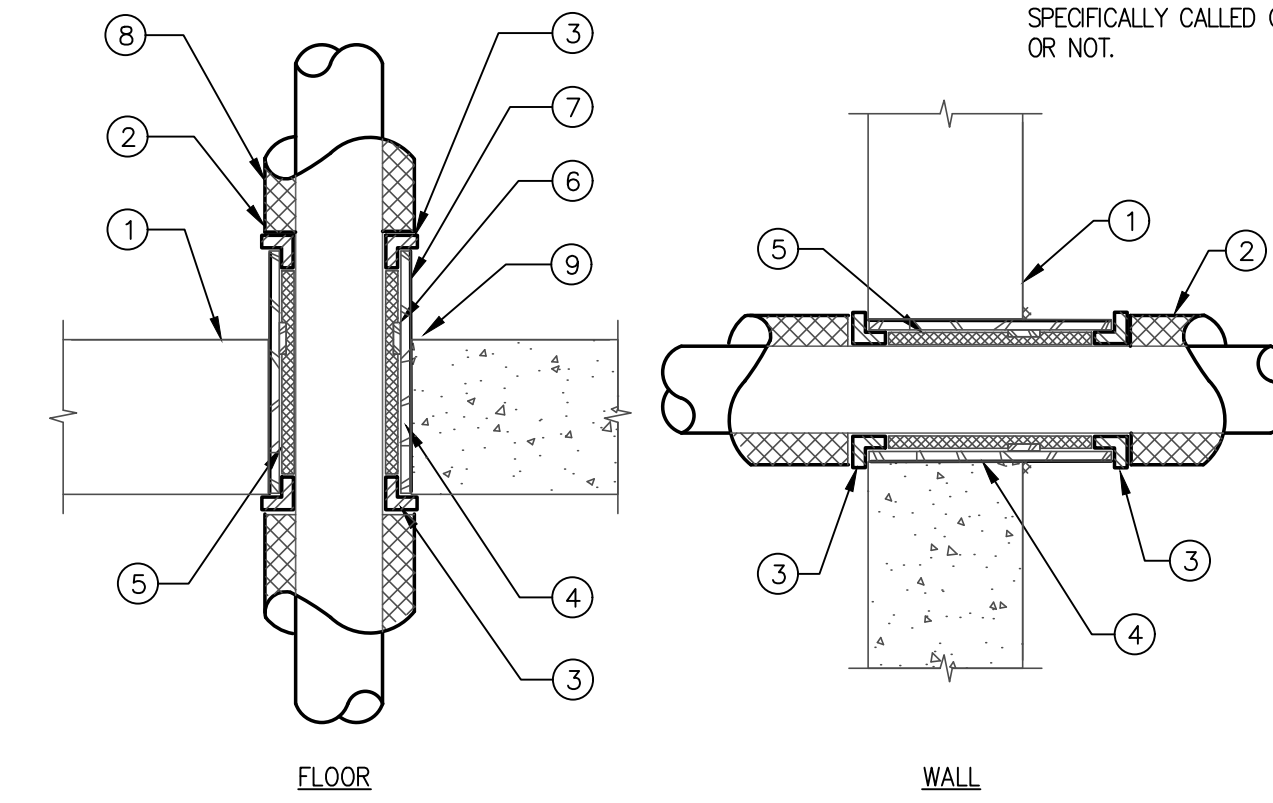
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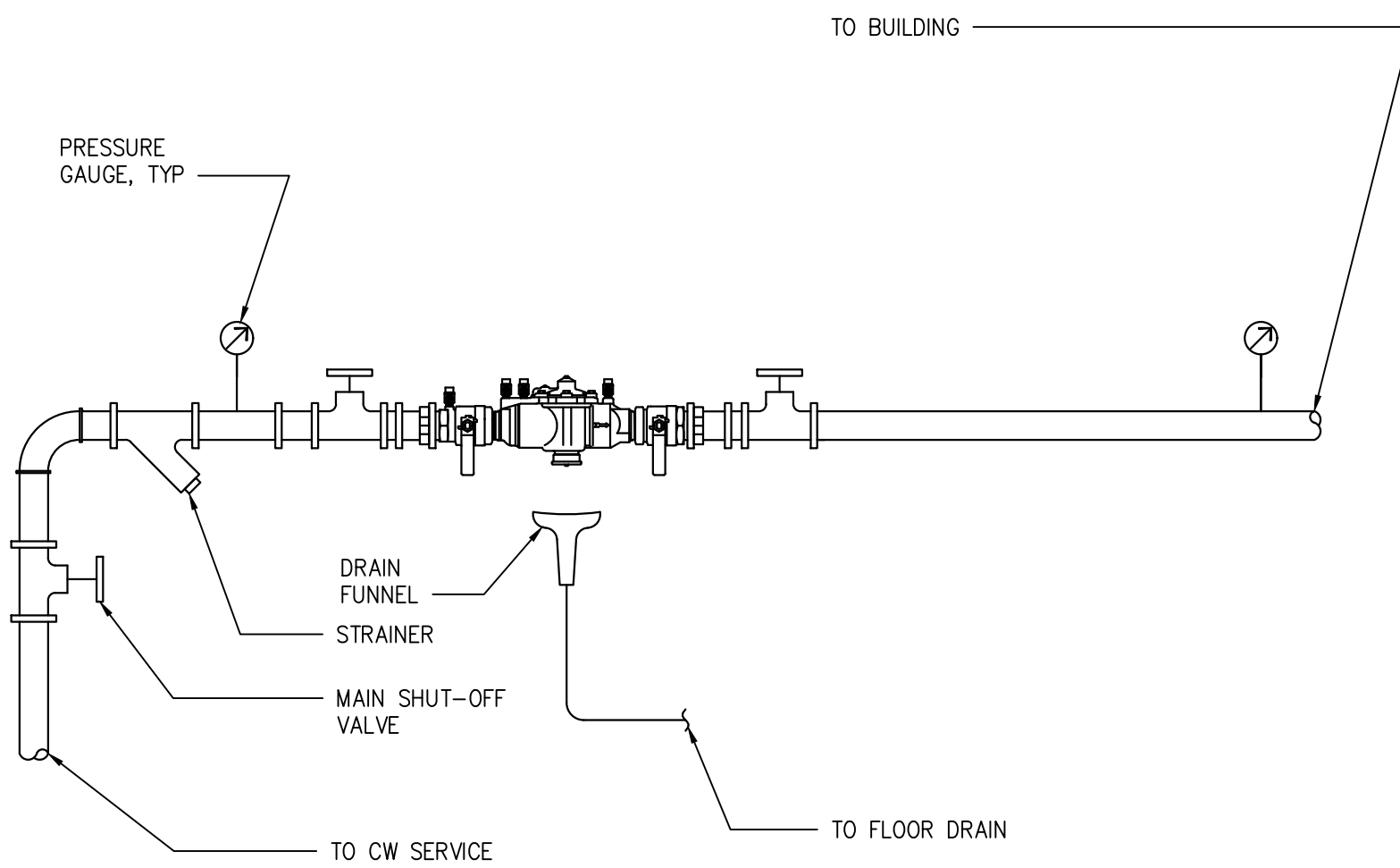
DRAWING NOTES:

1. DETAILS REPRESENT TYPICAL OCCURRENCES WITHIN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL DETAILS WHETHER SPECIFICALLY CALLED OUT IN THE PLAN SHEETS OR NOT.

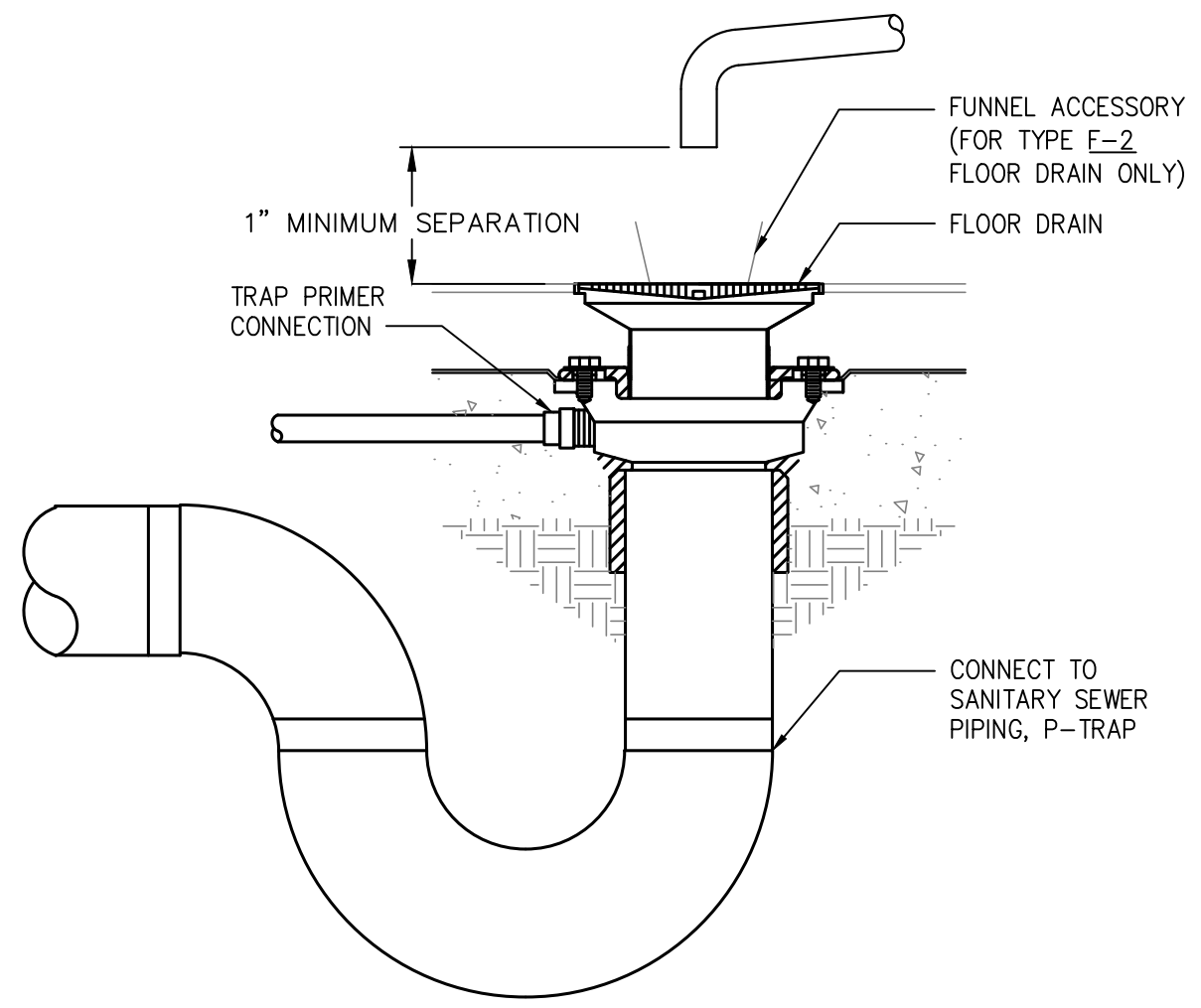


DETAIL NOTES:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. PRECAST CONCRETE OR EXISTING CONCRETE WALL OR FLOOR. 2. PIPE INSULATION TO BUTT AGAINST PLUG. 3. PLUG USED TO SEAL AROUND PASS THROUGH PIPE AND SUPPORTS PIPE. PROVIDE ADHESIVE CEMENT BETWEEN INSULATION AND PLUG TO SEAL FOR VAPOR BARRIER IN CHILLER WATER PIPING. 4. SLEEVE PRESSED FIT INTO CORED HOLE. | <ol style="list-style-type: none"> 5. COMPLETELY FILL THE VOID BETWEEN THE PIPE AND THE SLEEVE WITH FIREFILL MATERIAL. 6. INSERT PIPE TO SUPPORT SLEEVE EXTENSION. 7. SLEEVE EXTENSION. 8. INSULATION ABOVE FLOOR. 9. SEAL AROUND PIPE FOR WATERPROOFING. |
|--|--|

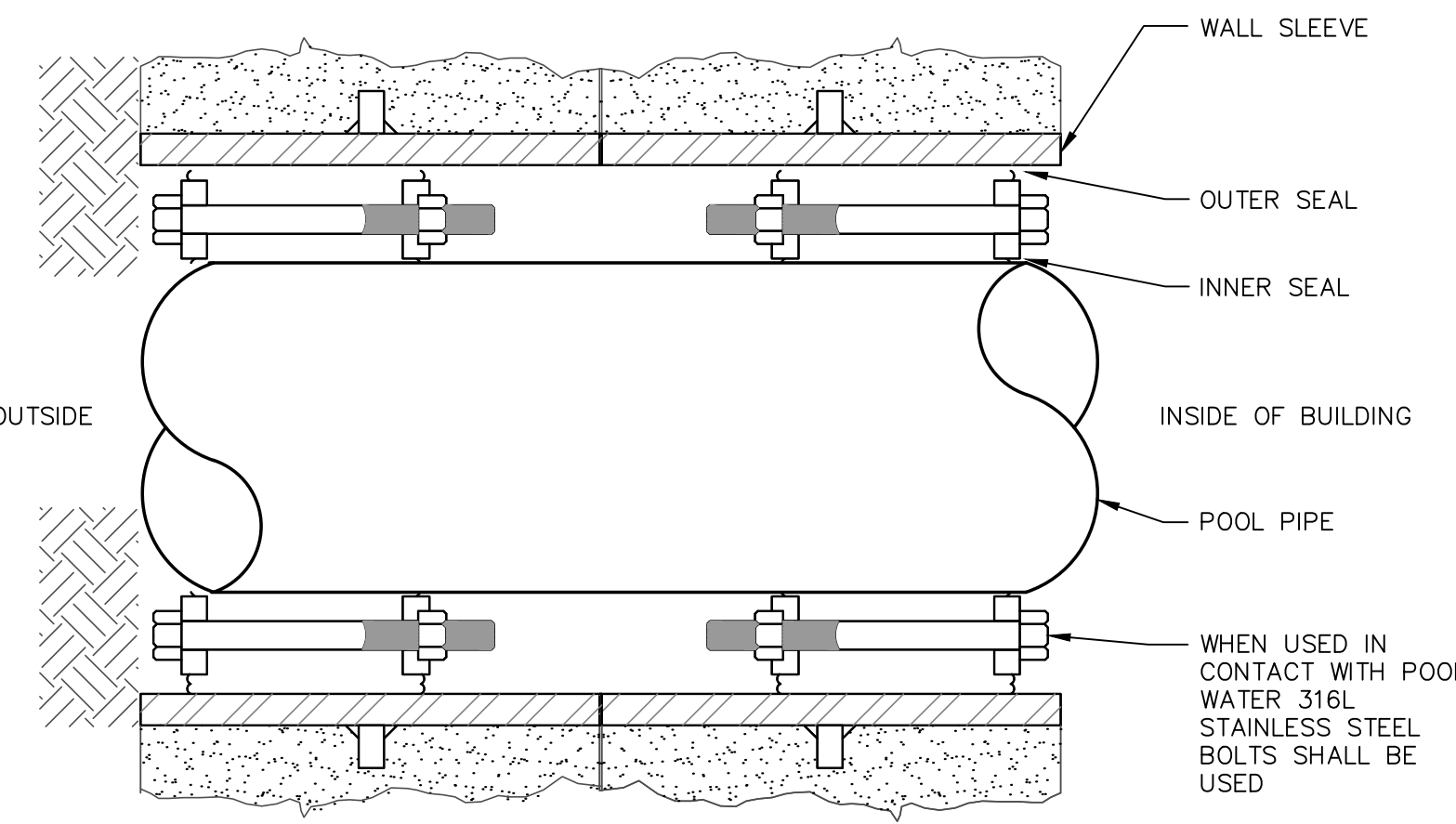


1 DOMESTIC WATER SERVICE ENTRANCE - RPB-P1
M5.1 SCALE: NTS

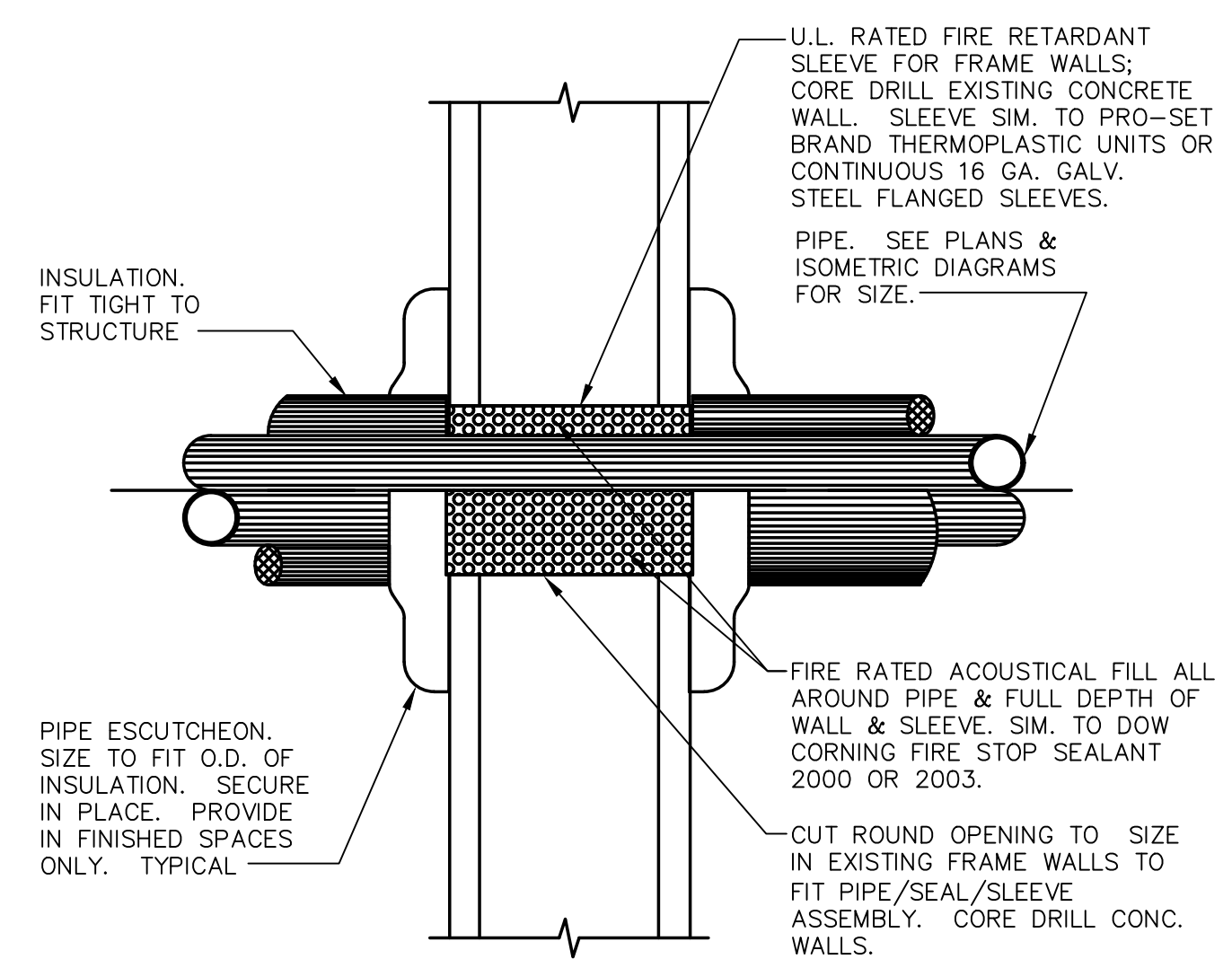


2 FLOOR DRAIN
P4.0 SCALE: NTS

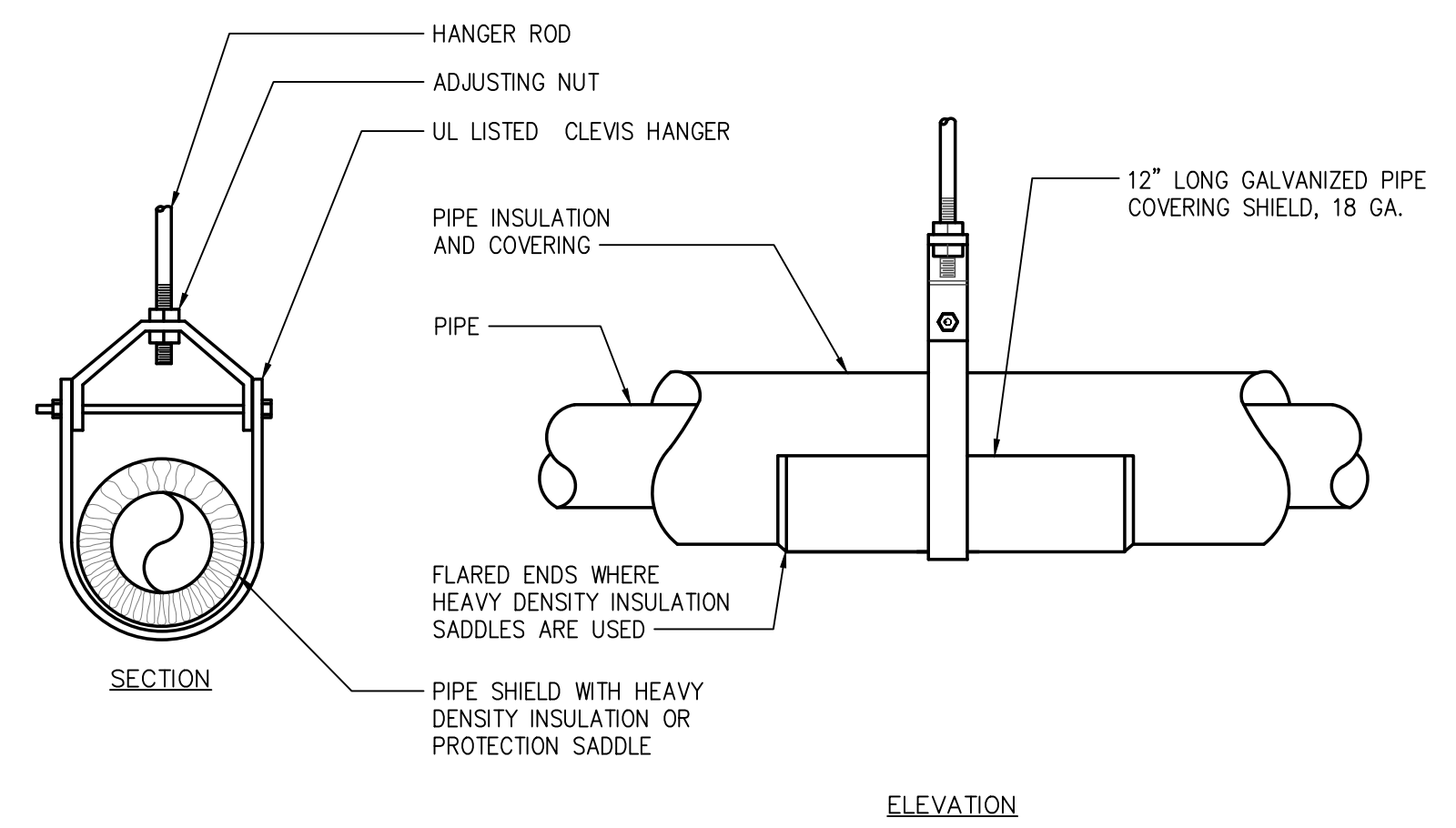
3 INSULATED PIPE PENETRATION THROUGH CONCRETE WALL OR FLOOR
P4.0 SCALE: NTS



4 PIPE PENETRATION THROUGH FOUNDATION WALL
P4.0 SCALE: NTS



5 PIPE RATED WALL PENETRATION
P4.0 SCALE: NTS



6 PIPE SUPPORT CLEVIS
P4.0 SCALE: NTS



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930 18TH PLACE NE
AUBURN, WA 98002

Drawn by: JA/JZ
Checked: RF
Date: 8/17/2023
Scale: AS NOTED
Revisions:
No. Date Remarks

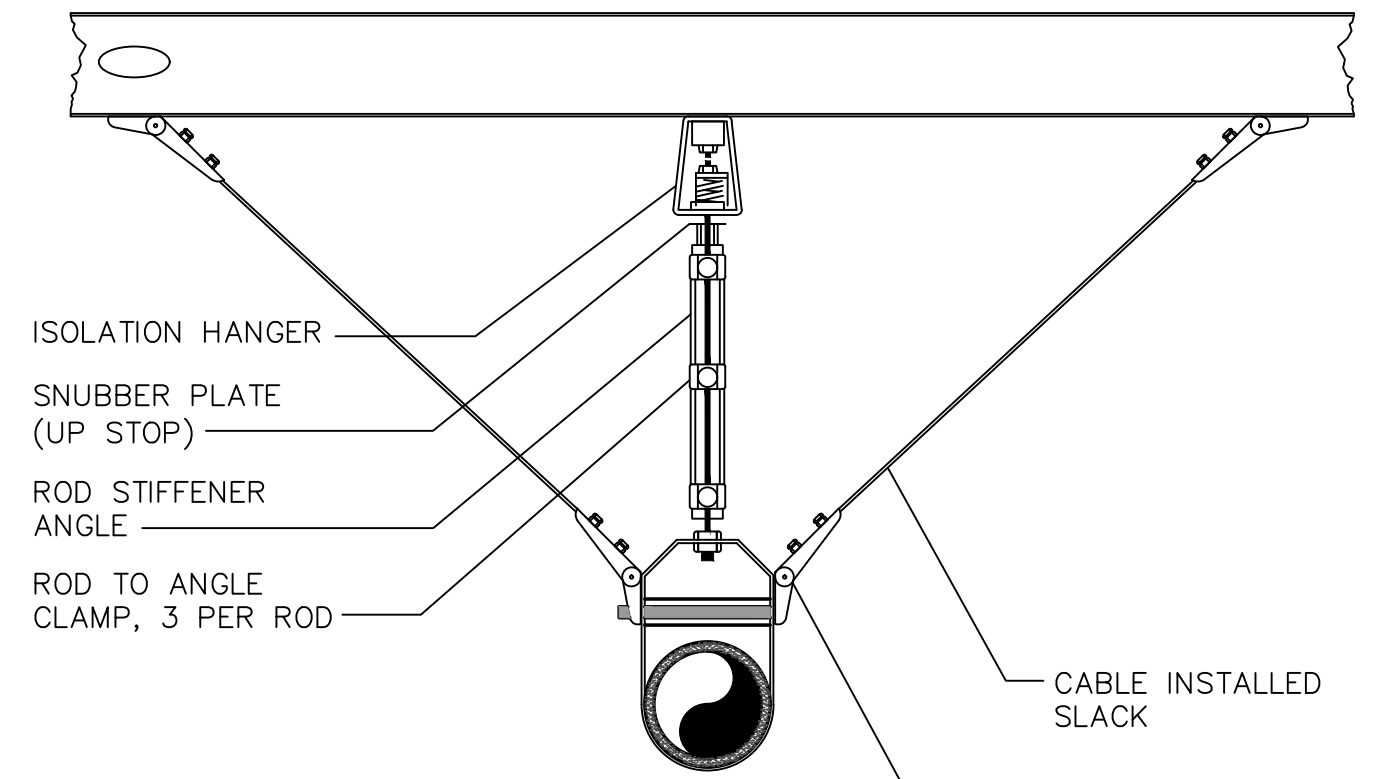
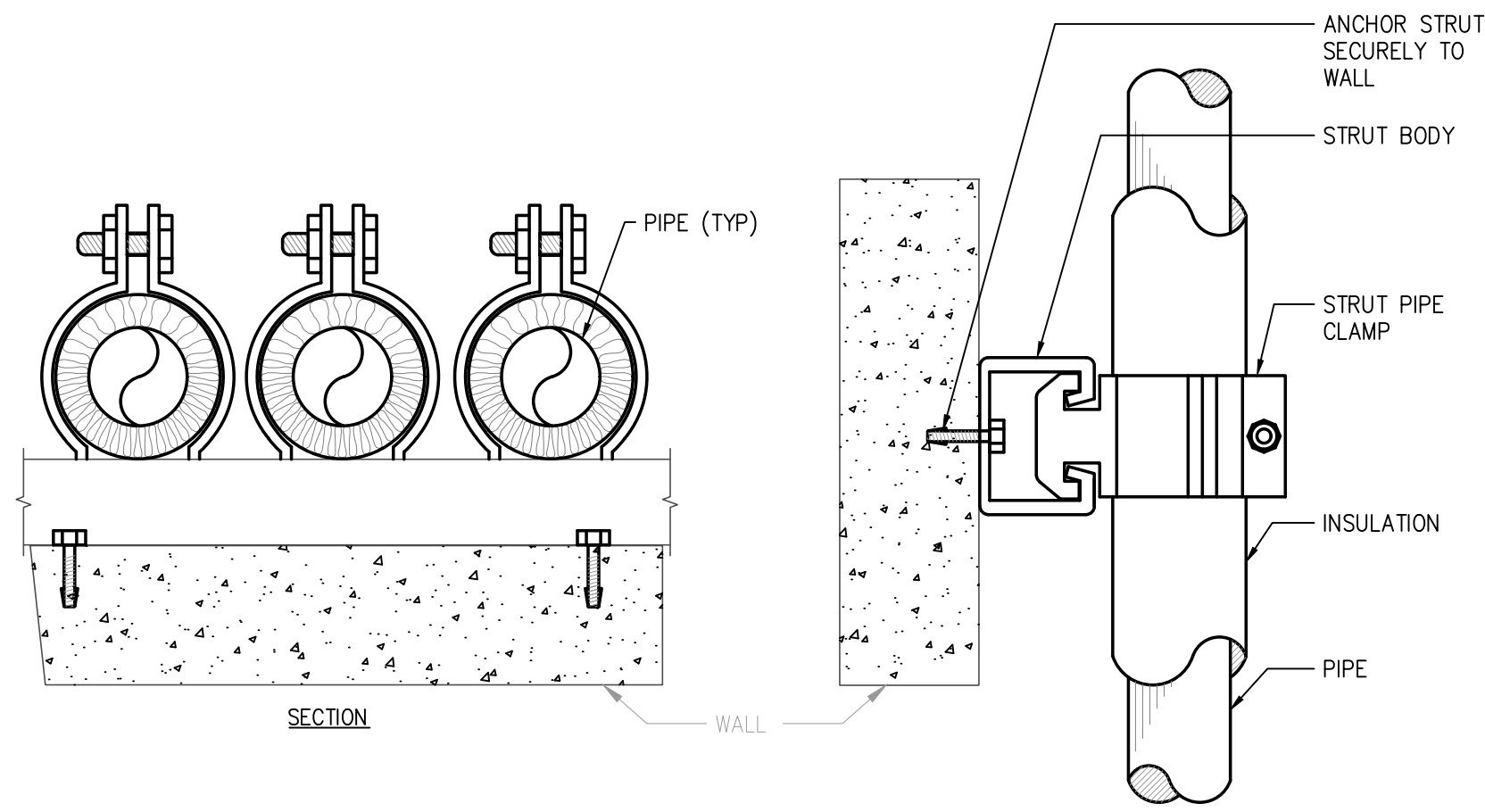
DRAWING NOTES:

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THE GREENBUSCH GROUP, INC.



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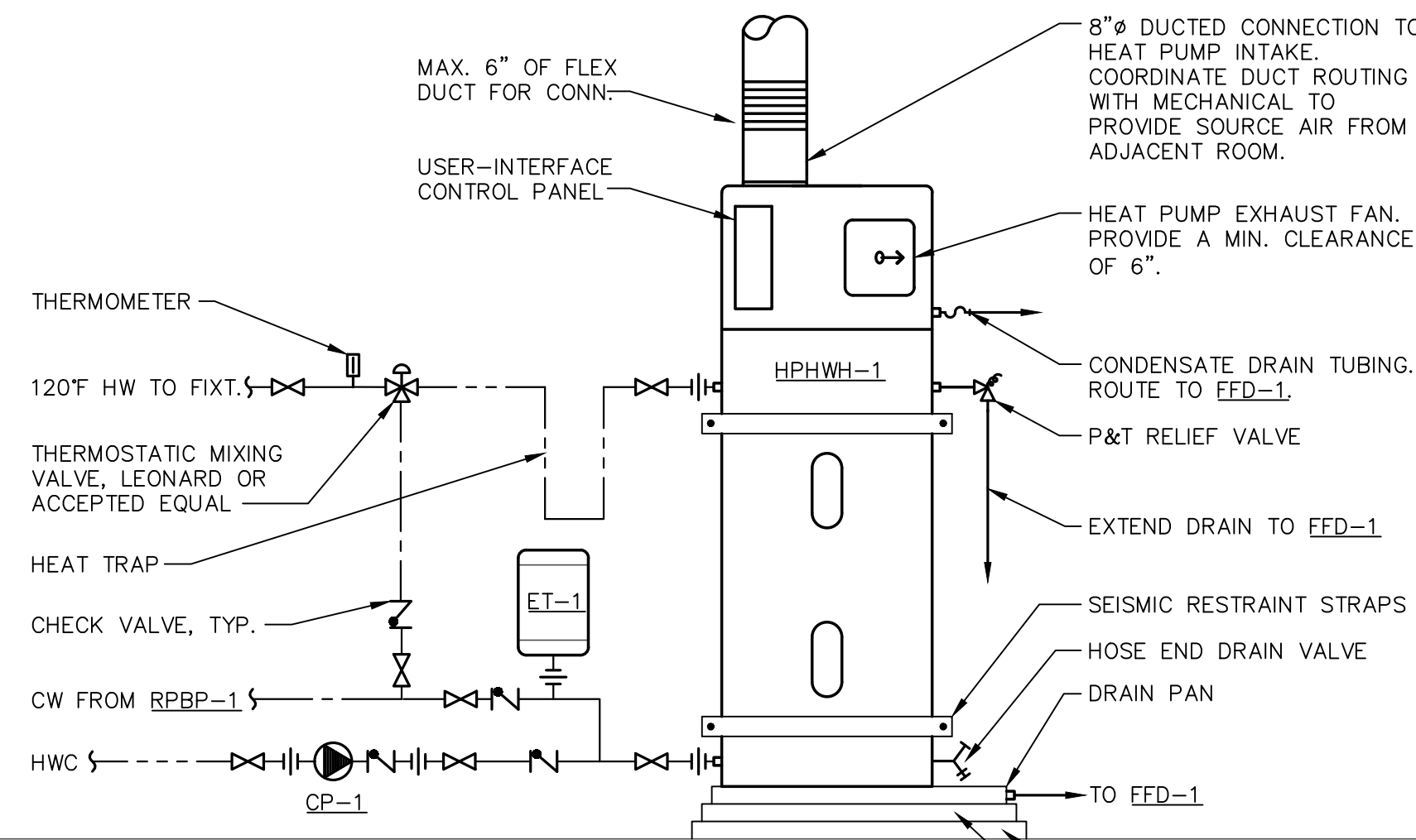
NOTES:
CONFORM TO CURRENT ADDITION OF SMACNA SEISMIC RESTRAINT MANUAL, SEISMIC ZONE 4.

1 PIPE SUPPORT WALL MOUNT

P4.1 SCALE: NTS

2 PIPING SEISMIC RESTRAINT

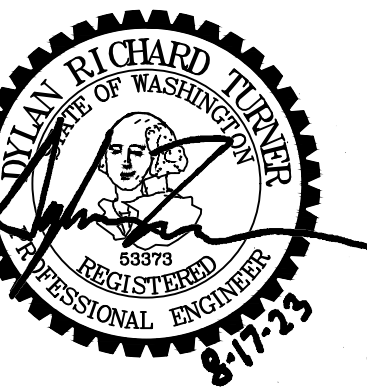
P4.1 SCALE: NTS



NOTE: COORDINATE WITH ARCH. TO PROVIDE LOUVERED DOOR WITH A MIN. FREE AREA OF 0.9 SF OR A DOOR UNDERCUT WITH A MIN. AIR GAP OF 18 SQ. IN.

3 HPHWH DETAIL

P4.1 SCALE: NTS



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Revisions:		
No.	Date	Remarks

PLUMBING
DETAILS
P4.1

GENERAL NOTES

- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC AND SPECIFICATIONS SECTIONS 26 0510, 26 0511, 26 0519, 26 0532 AND 26 0533 FOR A FULLY FUNCTIONING SYSTEM.
- PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
- OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. PROVIDE COMPONENTS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH OWNER AND APPROPRIATE DOCUMENTS INCLUDING CASEWORK AND SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE AND INSTALLATION OF WORK.
- COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
- PROVIDE RATED ENCLOSURES, AROUND ALL LIGHT FIXTURES PENETRATING RATED CEILINGS. COORDINATE WITH ARCHITECTURAL.

POWER RECEPTACLES & OUTLETS

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX GFCI RECEPTACLE
- DOUBLE DUPLEX GFCI RECEPTACLE
- DUPLEX RECEPTACLE MOUNTED IN CEILING
- DOUBLE DUPLEX RECEPTACLE MOUNTED IN CEILING
-

TELE/COMMUNICATIONS SYSTEM DEVICES

- TELEPHONE
- WALL MOUNTED TELEPHONE (VERIFY MOUNTING HEIGHT)
- SINGLE GANG TELEPHONE/DATA OPENING
- WIRELESS ACCESS POINT
- JUNCTION BOX & CONDUIT FOR FURNITURE SYSTEM TELE/DATA CONNECTIONS
- DATA/COMM OUTLET (NUMBER INDICATES NUMBER OF JACKS. 'B' INDICATES BLANK PLATE)
- TELEPHONE TERMINAL BOARD - 3/4" FIRE RESISTANT PLYWOOD, 8" HIGH x LENGTH SHOWN ON PLAN

SERVICE GEAR - AS SHOWN ON PLANS

- CIRCUIT BREAKER PANELBOARD
- EXISTING PANELBOARD TO REMAIN
- TERMINAL CABINET
- SWITCHBOARD OR MOTOR CONTROL CENTER, SIZE AS SHOWN ON PLANS
- DRY TYPE TRANSFORMER (SEE NOTES & RISER DIAGRAM FOR SIZE)
- TRANSFER SWITCH
- GROUND BAR

EQUIPMENT CONNECTIONS & CONTROLS

- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- FAN CONNECTION
- ELECTRIC WALL HEATER CONTROLLED BY WALL MOUNTED THERMOSTAT
- ELECTRIC WALL HEATER WITH INTEGRAL THERMOSTAT
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION STARTER AND DISCONNECT
- ENCLOSED CIRCUIT BREAKER
- PUSHBUTTON SWITCH
- MOTOR RATED SWITCH
- WALL MOUNTED THERMOSTAT

NOTES AND MISCELLANEOUS SYMBOLS

- FLAGNOTE - IDENTIFIES A SPECIFIC ITEM ON A DRAWING. COORESPONDS TO A SCHEDULE IN THE ELECTRICAL SET THAT EXPLAINS DETAILS OR FEATURES OF THAT ITEM.
- MECHANICAL FLAG - DEFINES MECHANICAL EQUIPMENT AND COORESPONDS TO DESIGNATIONS IN MECHANICAL PLANS AND SCHEDULES. COORESPONDS MECHANICAL CONNECTION SCHEDULE IN THE ELECTRICAL SET.
- REVISION CLOUD AND FLAG - CLOUD SURROUNDS INFORMATION THAT HAS BEEN REVISED. FLAG IDENTIFIES THE REVISION IN WHICH THE CHANGES WERE MADE.
- DETAIL NUMBER - APPEARS IN FRONT OF A TITLE ON DRAWINGS WITH MORE THAN ONE ILLUSTRATION.
- IDENTIFICATION SYMBOL - CROSS REFERENCES INFORMATION IN ONE AREA WITH A DETAIL (TOP #) AND SHEET (BOTTOM #) IN ANOTHER IN THE ELECTRICAL SET.

ELECTRICAL LEGEND

CONDUITS AND CIRCUITING

- WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
- CONDUIT HOME-RUN
- CONDUCTORS IN CONDUIT
- PHASE CONDUCTOR(S)
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- GROUND WIRE
- CONDUIT BENDS TO CHANGE ELEVATION AT THIS POINT
- CONDUIT STUB-UP
- CONDUIT BREAK
- CONDUIT CONTINUES ELSEWHERE (NOTED ON PLAN)
- CONDUIT TO BE REMOVED
- MULTI-OUTLET ASSEMBLY (SEE NOTES ON PLAN)

LIGHT FIXTURES & CONTROLS

NOTE: LIGHTING FIXTURE SYMBOLS SHOW LENGTH, MOUNTING & EMERGENCY EGRESS INFORMATION ONLY. REFER TO FIXTURE DESIGNATIONS & LIGHTING FIXTURE SCHEDULE FOR LAMP TYPE & OTHER FIXTURE SPECIFICS.

- RECESSED DOWNLIGHT
- PENDANT MOUNTED FIXTURE OR CHANDELIER
- SINGLE POINT SOURCE WALL MOUNTED FIXTURE
- SURFACE MOUNTED LINEAR FIXTURE (NARROW BODY)
- RECESSED LINEAR FIXTURE
- PENDANT MOUNTED LINEAR FIXTURE
- WALL MOUNTED LINEAR FIXTURE
- LINEAR STRIP FIXTURE
- WALL MOUNTED STRIP FIXTURE
- LINEAR UNDERCOUNTER FIXTURE
- LED COVE OR UNDER COUNTER LIGHT (LENGTH AS SHOWN ON PLAN)
- TRACK LIGHT (LENGTH AS SHOWN ON PLAN)
- RECESSED LINEAR 2'X4' FIXTURE
- RECESSED LINEAR 2'X2' FIXTURE

EMERGENCY EGRESS FIXTURES: SHADED FIXTURES REPRESENT A CONNECTION TO EMERGENCY EGRESS LIGHTING CIRCUIT VIA UL924 RELAY. DUAL CIRCUITS - NORMAL & EMERGENCY SHOWN ON PLAN AS NORMAL#/EM# OR NORMAL# EM#

- SURFACE LINEAR FIXTURE ON EMERGENCY EGRESS CIRCUIT
- RECESSED LINEAR FIXTURE ON EMERGENCY EGRESS CIRCUIT
- SINGLE POINT FIXTURE ON EMERGENCY EGRESS CIRCUIT
- UNIVERSAL/CEILING MOUNTED EXIT SIGN
- DIRECTIONAL EXIT SIGN (ARROWS INDICATE ONE OR TWO SIDES AND DIRECTION INDICATED)
- EMERGENCY EXIT SIGN WITH DUAL PATHWAY HEADS
- DUAL HEAD EMERGENCY EGRESS FIXTURE
- SINGLE POLE LIGHT SWITCH
- THREE POLE LIGHT SWITCH (NUMBER INDICATES NUMBER OF POLES USED)
- DIMMER SWITCH
- OCCUPANCY SENSOR LIGHT SWITCH
- VACANCY SENSOR LIGHT SWITCH
- LOW VOLTAGE SWITCH CONTROLLED BY ROOM SENSOR
- LIGHT SWITCH SUBSCRIPTS ARE AS FOLLOWS:
LV = LOW VOLTAGE, D = DIMMING
b = LOWER CASE LETTER CORRESPONDS TO LETTER AT FIXTURES TO BE CONTROLLED
R# = RELAY # IN LIGHTING CONTROL PANEL
S# = SENSOR ZONE
- OCCUPANCY SENSOR
- VACANCY SENSOR
- PHOTOCCELL LIGHT SENSOR
- PHOTOCCELL AIMED NORTH, MOUNTED ON BUILDING EXTERIOR
- LIGHT SWITCH WITH PILOT LIGHT
- KEYED SWITCH
- LED TRANSFORMER - SHOWN AS NEEDED

NOTE: THESE STANDARDS APPLY ON ALL ELECTRICAL DRAWINGS UNLESS NOTED OTHERWISE.

- SYMBOLS SHOWN ON PLANS IN STANDARD (HEAVY) LINE WEIGHT ARE NEW OR RELOCATED WORK.
- SYMBOLS SHOWN IN LIGHT LINE WEIGHT OR DESIGNATED WITH (E) INDICATE EXISTING TO REMAIN.
- SYMBOLS SHOWN AS DASHED INDICATE ITEMS TO BE REMOVED OR DEMOLISHED.

SECURITY SYSTEM EQUIPMENT

- SECURITY SYSTEM PANEL
- CARD READER ACCESS OUTLET
- ELECTRIC STRIKE FOR ACCESS DOOR CONTROL
- REQUEST TO EXIST
- VIDEO ENTRY LIGHT
- SECURITY CAMERA
- REMOTE PUSHBUTTON DOOR CONTROL SWITCH DOORBELL

ABBREVIATIONS

- A (200A) (AFTER A NUMBER) = AMPS
- AF(200AF) (AFTER A NUMBER) = FUSE SIZE IN AMPS
- AFF ABOVE FINISHED FLOOR
- AHJ AUTHORITY HAVING JURISDICTION
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- BKR BREAKER
- C CONDUIT
- CKT CIRCUIT
- CL CENTERLINE
- CLG CEILING
- CU COPPER
- DIA DIAMETER
- DISC DISCONNECT
- DISP DISPOSER
- DW DISHWASHER
- E.C. ELECTRICAL CONTRACTOR
- ECB ENCLOSED CIRCUIT BREAKER
- (E) EXISTING (USED AS SYMBOL DESIGNATION)
- EMT ELECTRICAL METALLIC TUBING
- EXTG EXISTING (USED AS ABBREVIATION IN TEXT)
- EV ELECTRIC VEHICLE (CHARGER)
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FLR FLOOR
- F.O.I.C. FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
- FSD FIRE SMOKE DAMPER
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- HWT HOT WATER TANK
- KCMIL THOUSANDS OF CIRCULAR MILS
- KVA 1000 VOLT AMPERES
- KW 1000 WATTS
- LCP LIGHTING CONTROL PANEL
- LT LIGHT
- LTS(LTG) LIGHTS (LIGHTING)
- LV LOW VOLTAGE
- MCB MAIN CIRCUIT BREAKER
- MECH MECHANICAL
- MLO MAIN LUGS ONLY
- MSC MULTI-SCENE CONTROLLER
- N3R NEMA 3R
- NIC NOT IN CONTRACT
- NREC NON-RESIDENTIAL ENERGY CODE
- OS OCCUPANCY SENSOR
- PC PHOTOCCELL
- PNL PANELBOARD
- REC RECEPTACLE(S)
- REF REFRIGERATOR
- RQMTS REQUIREMENTS
- SCL SEATTLE CITY LIGHT
- SQ SQUARE
- SW SWITCH
- TBD TO BE DETERMINED
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- UC UNDER COUNTER
- U.O.N. UNLESS OTHERWISE NOTED
- UTIL UTILITY
- VA VOLT AMPERES
- VFD VARIABLE FREQUENCY DRIVE
- VS VACANCY SENSOR
- W WATTS
- WAP WIRELESS ACCESS POINT
- WC WATER COOLER
- W/O WITHOUT
- WP WEATHERPROOF
- XFMR TRANSFORMER

DRAWING INDEX

- E0.1 SYMBOL LEGEND AND NOTES
- E0.2 LIGHTING FIXTURE SCHEDULE AND ENERGY FORMS
- ED2.1 POWER/COMMUNICATIONS AND LIGHTING DEMO PLANS
- E2.1 POWER/COMMUNICATIONS AND LIGHTING PLANS
- E4.1 MECHANICAL CONNECTIONS PLAN
- E7.1 FIRE ALARM SYSTEM PLAN
- E9.1 EXISTING RISER DIAGRAM AND PANEL SCHEDULES



19515 North Creek Parkway, Suite 302
Bothell, WA 98011
425-402-9400 office@caseeng.com



LIGHTING COMPLIANCE SUMMARY						
2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 Administered by: ©2023 NEEA, All rights reserved						
Project & Applicant Information	Project Title	KCHA Burndale - 2018 WSEC		For Building Department Use:		Date: Aug 14, 2023
	Project Address	930 18th Place NE				
	Applicant Name	Auburn, WA 98002				
	Applicant Phone	stephanie.enlow				
	Applicant Email	425-402-9400				
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com						
General Occupancy	All Commercial	General Building Use Type	Office, Other	Building Cond. Floor Area	3,376	
General Project Types	Alteration	New Building or Addition Lighting Scope	Alteration Lighting Scope	Interior Lighting	Project Cond. Floor Area	3,376
Lighting Project Description			Exterior Lighting	Floors Above Grade	Compliance Method	1
Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Alteration	Interior Lighting	50% or more replaced	Space by space	No Calculation Adjustments allowed	COMPLIES
	Alteration	Exterior Lighting	50% or more replaced	Not applicable to exterior		COMPLIES
Additional Efficiency Options Included						

Project Title				Date	
KCHA Burndale - 2018 WSEC				Aug 14, 2023	
Lighting Power Calculation		ALTERATION - INTERIOR LIGHTING (50% or more replaced)		Compliance Verification	
ALTERATION		Space by space		LPA Calculation Adjustment	
Compliance Method		Space by space		LPA Calculation Adjustment	
				none	

Interior Lighting Power Allowance - Space by Space						
General Space Type	Specific Space Type	Ceiling Height (ft)	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD + Display LPD)
Conference/meeting/mtg/purpose			210	0.97	204	
Copy/print room			143	0.31	44	
Corridors	General		153	0.41	63	
Lounge/breakroom	General		208	0.59	123	
Office	Enclosed less than 250 sf		267	0.74	198	
Office	Open plan		1,517	0.61	925	
Restroom	General		201	0.63	127	
Storage room	50-100 sf		65	0.38	25	
Workshop			613	1.26	772	
Totals				Proposed Total LPD	2,480	2,157
						COMPLIES

Proposed Lighting Power Density						
Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Direct / indirect pendant	F6	3	102			306
Horizontal surface-mount	F4	17	40			680
Horizontal surface-mount	F1	12	36			432
Recessed downlight	F2	11	5			55
Recessed downlight	F7	4	64			256
Wall-mounted	F5	7	56			392
Wall-mounted	F3	3	12			36
Proposed Total LPD						2,157

Project Title						Date	
KCHA Burndale - 2018 WSEC						Aug 14, 2023	
Proposed Fixtures Details		ALTERATION - INTERIOR LIGHTING (50% or more replaced)				New or Existing-to-Remain	
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type				
Individual Fixtures							
Direct / indirect pendant	F6	E2.1	LED			New	
Fixture Description: PENDANT MTD LINEAR DIRECT/INDIRECT							
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Horizontal surface-mount	F4	E2.1	LED			New	
Fixture Description: SURFACE LINEAR LED							
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Horizontal surface-mount	F1	E2.1	LED			New	
Fixture Description: SURFACE MTD LINEAR LED							
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Recessed downlight	F2	E2.1	LED			New	
Fixture Description: RECESSED LED DNLT							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Recessed downlight	F7	E2.1	LED			New	
Fixture Description: RECESSED LINEAR LED							
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Wall-mounted	F5	E2.1	LED			New	
Fixture Description: LINEAR DIRECT/INDIRECT LED							
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)							
Do these fixtures require specific application lighting controls?: None required							
Dimming method: Continuous dimming							
Wall-mounted	F3	E2.1	LED			New	
Fixture Description: VANITY LIGHT LED							
Do these fixtures require specific application lighting controls?: None required							

Project Title								Date	
KCHA Burndale - 2018 WSEC								Aug 14, 2023	
Lighting Power Calculation		ALTERATION - EXTERIOR LIGHTING (50% or more replaced)				Compliance Verification			
ALTERATION		ZONE 3				Base Site Allowance			
Exterior Lighting Zone						500			
Exterior Tradable Lighting Power Allowance									
Tradable Surface	Tradable Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Tradable Proposed Watts	Tradable Compliance Status	
Uncovered parking areas and drives		1,186	0.06			71			
Base Site Allowance						500			
Totals						571	45	COMPLIES	
Proposed Tradable Lighting Power Density									
Fixture Type	Fixture ID	Tradable Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)		
Individual Fixtures									
Pole-mounted	FE2	Uncovered parking areas and drives -	1	45					45
Tradable Proposed Total							45	COMPLIES	
Remaining Base Site Allowance Watts						500.00			
Exterior Non-Tradable Lighting Power Allowance									
Non-Tradable Surface	Non-Tradable Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	# of Items	LPA (Watts per # of Items)	Total Watts Allowed (LPA x SF) or (LPA x # of Items)	Total Non-Tradable Proposed Watts Exceeding LPA	Non-Tradable Proposed Watts Exceeding LPA	Non-Tradable Compliance Status
Building facade		39,120	0.113			4,421	242	0	COMPLIES
Total Proposed Watts Exceeding LPA						242	0	COMPLIES	
Remaining Base Site Allowance						500			
Proposed Non-Tradable Lighting Power Density									
Fixture Type	Fixture ID	Tradable Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)		
Individual Fixtures									
Wall-mounted	FE1	Building facade -	11	22					242

Project Title								Date	
KCHA Burndale - 2018 WSEC								Aug 14, 2023	
Proposed Fixtures Details		ALTERATION - EXTERIOR LIGHTING (50% or more replaced)				New or Existing-to-Remain			
Fixture Type	Fixture ID	Location in Documents	Lamp Type	Tradable Surface Type					
Individual Fixtures									
Pole-mounted	FE2	E2.1	LED	Uncovered parking areas and drives -					New
Fixture Description: POLE ARM MOUNTED SINGLE HEAD FIXTURE									
Do these fixtures require specific exterior lighting controls?: Daylight sensing off controls									
Fixture Type	Fixture ID	Location in Documents	Lamp Type	Non-Tradable Surface Type					New
Individual Fixtures									
Wall-mounted	FE1	E2.1	LED	Building facade -					New
Do these fixtures require specific exterior lighting controls?: Daylight sensing off controls									

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMP	WATTS/FIXT
INTERIOR			
F1	SURFACE OR WALL MOUNTED LINEAR 4' LED, WITH LENS, 4000 LUMENS, 3500K, 80 CRI WITH 0-10V DIMMING DRIVER. FINELITE HP4D	LED	35
F1X	SIMILAR TO F1 EXCEPT WITH EMERGENCY BACK UP.	LED	35
F2	SURFACE MOUNTED 6" DIAMETER JUNCTION BOX MOUNTABLE DOWNLIGHT 750 LUMENS, 3000K, 80 CRI. JUNO JSBT 6IN SERIES	LED	11
F3	WALL MOUNTED VANITY LIGHT, NOMINAL 3', 1800 LUMENS, 3500K, 90 CRI WITH 0-10V DIMMING DRIVER. FINELITE HP4WM SERIES	LED	12
F4	SURFACE MOUNTED LINEAR LED, 900 LUMENS PER FOOT, 3500K, 80 CRI WITH 0-10V DIMMING DRIVER. FINELITE HP4D	LED	40
F4X	SIMILAR TO F4 EXCEPT WITH EMERGENCY BACK UP.	LED	40
F5	WALL MOUNTED LINEAR DIRECT/INDIRECT LED, 500 LUMENS PER FOOT, 3500K, 90 CRI WITH 0-10V DIMMING DRIVER. FINELITE HP4WM SERIES	LED	56
F6	PENDANT MOUNTED LINEAR LED, 10' DIRECT/INDIRECT, 40 UP AND 60 DN, 1250 LUMENS PER FOOT, 3500K, 80 CRI WITH 0-10V DIMMING DRIVER. MOUNT BOTTOM OF FIXTURE AT 8'-0" FINELITE HP4 ID SERIES	LED	102
F6X	SIMILAR TO F6 EXCEPT WITH EMERGENCY BATTERY BACK UP.	LED	102
F7	RECESSED LINEAR LED 10' LED, 750 LUMENS PER FOOT, 3500K, 80 CRI WITH 0-10V DIMMING DRIVER. FINELITE HP4R SERIES	LED	64
X1	UNIVERSAL MOUNT EXT SIGN WITH GREEN STENCIL FACE AND INTERGRAL EMERGENCY BATTERY PACK. COOPER SURELITE ARCEL7G SERIES		
EXTERIOR			
FE1	WALL MOUNTED LED CYLINDER, NOMINALLY 12" HIGH BY 4" DIAMETER, EXTRUDED ALUMINUM HOUSING. MOUNTED PARALLEL TO TOP OF DOOR FRAME, 2000 LUMENS, 4000K, 80 CRI WITH 50 DEGREE BEAM SYSTEMALUX MINISLOT SERIES	LED	22
F1EX	SIMILAR TO FE1 EXCEPT WITH EMERGENCY BATTERY BACK UP.	LED	22
FE2	POLE HEAD TO REPLACE EXISTING, ARM MOUNTED, TYPE IV WITH HARDWARE TO MOUNT ON EXISTING POLE. MCGRAW EDISON GALN SA1 SERIES WITH MOUNTING HARDWARE	LED	45

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LIGHTING FIXTURE
SCHEDULE
AND ENERGY
FORMS

E0.2

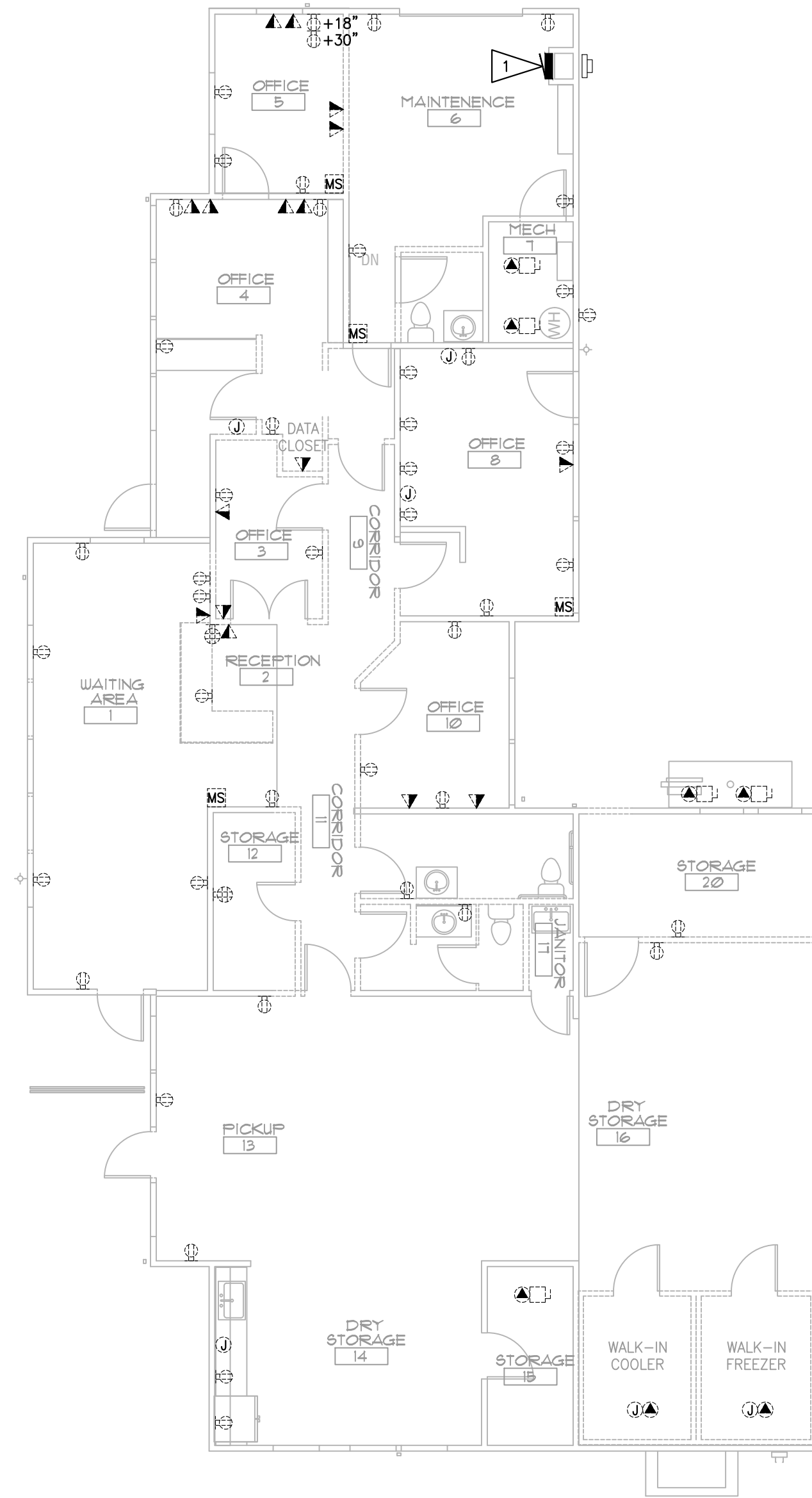


GENERAL NOTES - DEMOLITION

1. REMOVE ALL LIGHTING FIXTURES, EQUIPMENT & DEVICES SHOWN ON DEMOLITION PLANS UNLESS OTHERWISE NOTED.
2. DISCONNECT, REMOVE OR RELOCATE EXISTING ELECTRICAL INSTALLATION AS INDICATED. THIS INCLUDES, BUT NOT LIMITED TO PANELS, LIGHTING FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, BASEBOARD HEATERS, UNIT HEATERS, ETC. COORDINATE WITH MECHANICAL PRIOR TO DEMOLITION OF MECHANICAL EQUIPMENT.
3. SEE MECHANICAL DRAWINGS FOR HEATERS, EXHAUST FANS, ETC. WHICH MUST BE DISCONNECTED BY DIVISION 26 FOR REMOVAL OR ABANDONMENT BY DIVISION 23.
4. REMOVE ALL UNUSED CONDUIT, LOW VOLTAGE WIRE, J-BOXES, AND FASTENING DEVICES AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION. ALL ABANDONED CONDUIT SHALL BE REMOVED UNLESS BEING REUSED.
5. SYSTEMS WHICH REQUIRE INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH OWNER.
6. REMOVE ALL EXISTING SYSTEMS AS INDICATED OR REQUIRED TO CLEAR AREA FOR NEW INSTALLATION.
7. RECONNECT ANY EQUIPMENT BEING DISTURBED BY THESE RENNOVATIONS YET REQUIRED FOR CONTINUED SERVICE.
8. WHERE WORK (WALL REMOVAL, NEW OR RELOCATED WALL OPENINGS, ETC.) RESULTS IN THE REMOVAL OF RECEPTACLES, DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THE CIRCUIT SYSTEM.
9. REMOVE ALL EQUIPMENT CONNECTIONS, DISCONNECTS & ASSOCIATED CIRCUITRY SHOWN ON DEMOLITION PLAN.

FLAG NOTES

- 1 EXISTING ELECTRICAL PANEL SHOWN FOR REFERENCE AND IS TO REMAIN.



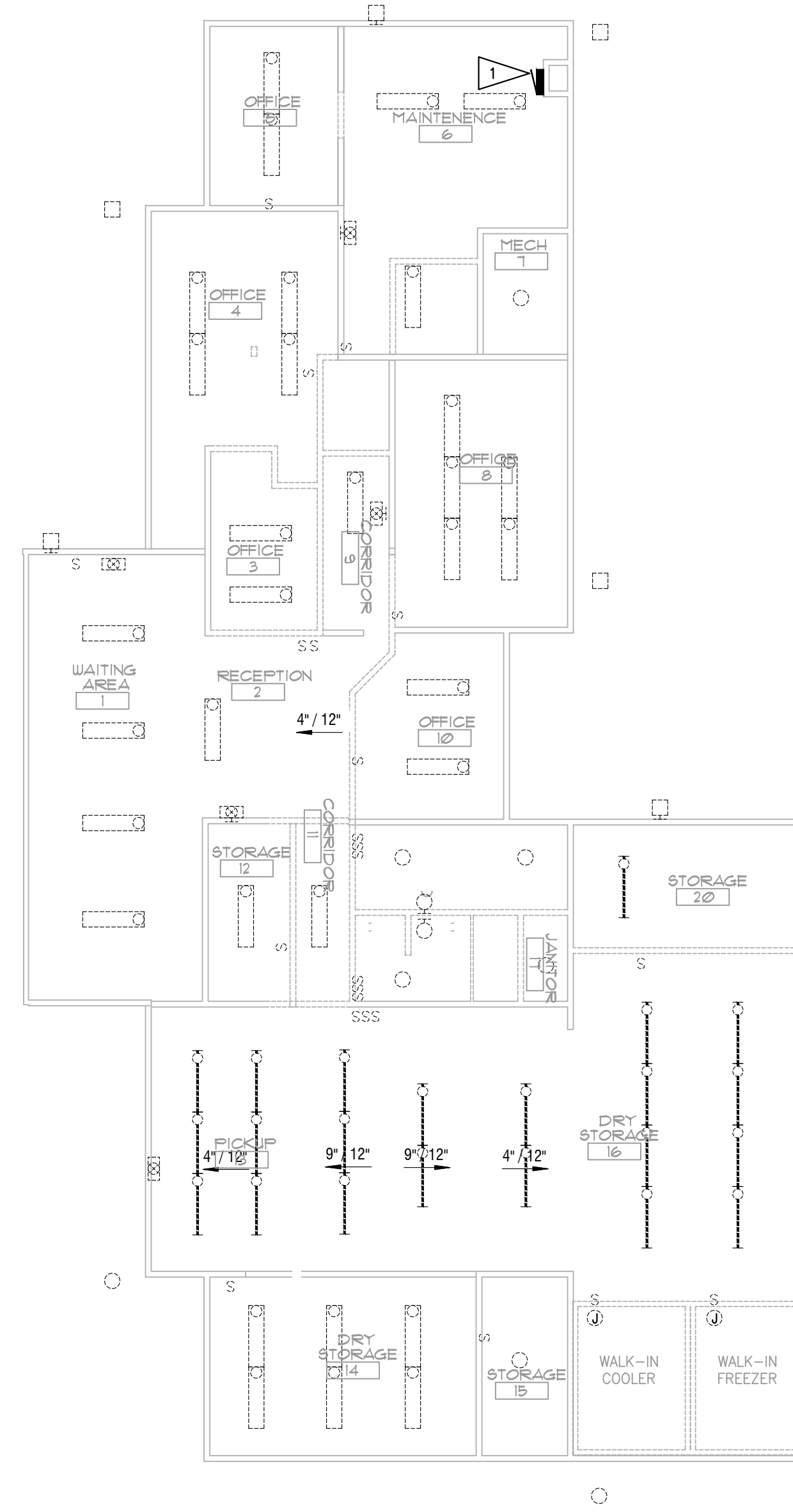
POWER/COMMUNICATIONS DEMO PLAN

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



LIGHTING DEMO PLAN

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



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POWER/
COMMUNICATIONS
AND LIGHTING
DEMO PLANS

ED2.1

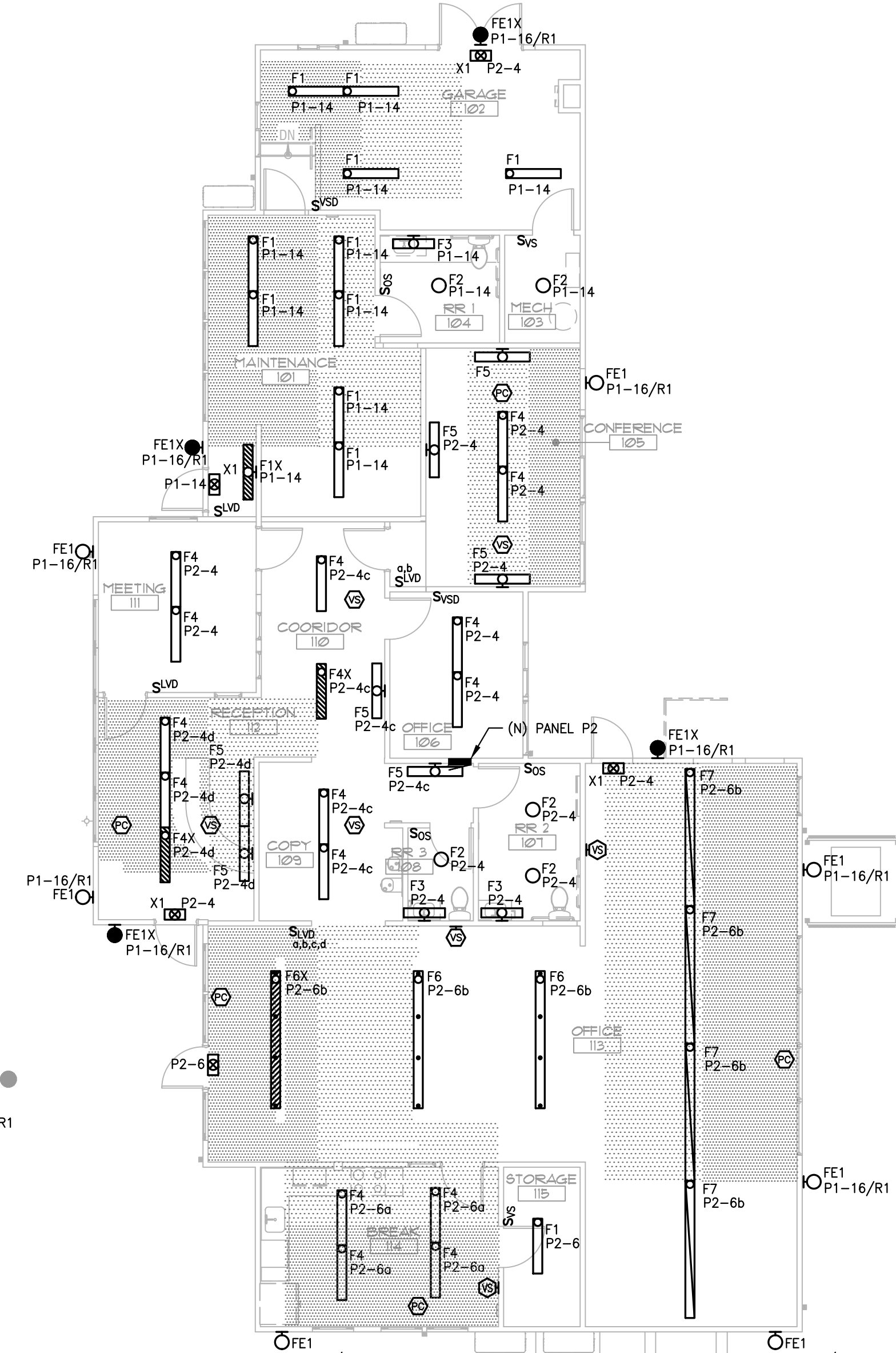
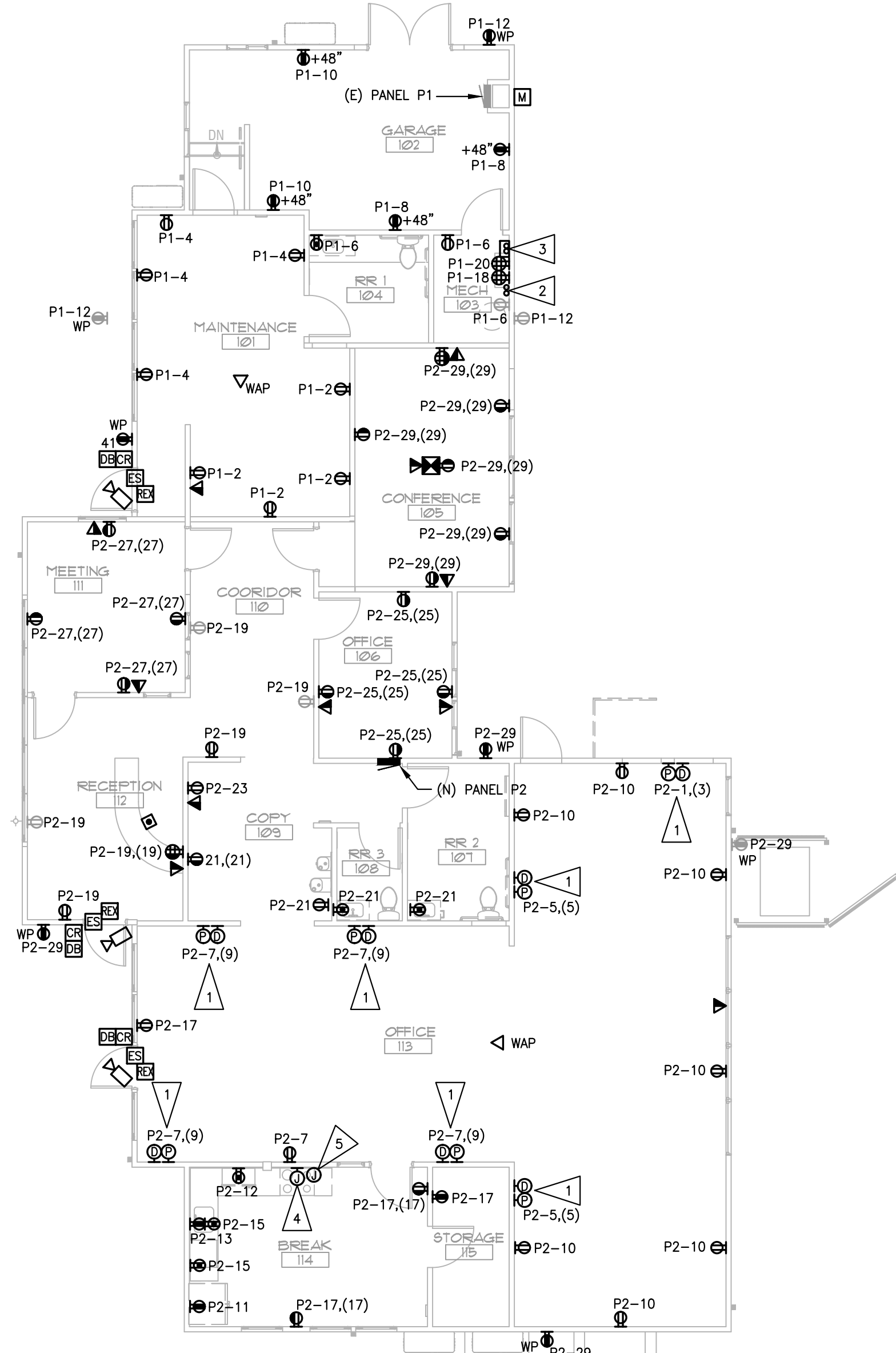
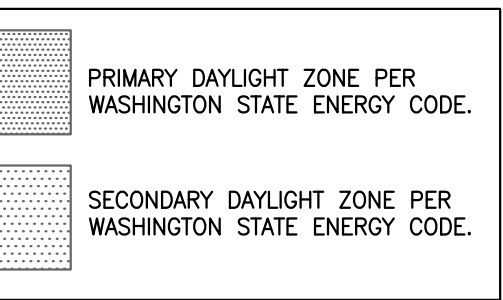


GENERAL NOTES:

- 1. ALL ELECTRICAL EQUIPMENT TO BE PROVIDED WITH PROPER WORKING CLEARANCES PER NEC 110 REQUIREMENTS.
- 2. CIRCUIT NUMBERS SHOWN WITHIN () ARE TO BE A CONTROLLED CIRCUIT. SEE GENERAL NOTE 5.
- 3. PROVIDE RELAY ABOVE ACCESSIBLE CEILING TO AUTOMATICALLY TURN OFF CONTROLLED RECEPTACLES IN UNOCCUPIED ENCLOSED ROOMS BASED ON ROOM STATUS FROM ASSOCIATED LIGHTING OCCUPANCY SENSOR.
- 4. CONTROLLED RECEPTACLES IN OPEN OFFICE AREAS SHALL BE AUTOMATICALLY CONTROLLED BY OCCUPANCY SENSORS AND PROVIDED WITH OVERRIDE ZONE CONTROLS.
- 5. WSEC C405.10 CONTROLLED RECEPTACLES. AT LEAST 50 PERCENT OF ALL RECEPTACLES INSTALLED IN PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, INDIVIDUAL WORKSTATIONS AND CLASSROOMS. RECEPTACLES TO BE CONTROLLED VIA CLOSEST RELATIVE OCCUPANCY SENSOR.
- 6. COORDINATE ALL DEVICE LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DETAILS AND OWNER PRIOR TO ROUGH-IN.
- 7. ALL LOW VOLTAGE DATA/SECURITY/ACCESS CONTROL SYSTEMS DESIGNED BY OTHERS. EC TO PROVIDE ROUGH-IN ONLY. COORDINATE DEVICE LOCATIONS AND CABLING REQUIREMENTS PRIOR TO ROUGH-IN.
- 8. PROVIDE AND ROUGH-IN DEVICE BACK BOXES, RACEWAY WITH PULL STRING UP INTO CEILING SPACE FOR ACCESS CONTROL AND SECURITY DEVICES. EC TO COORDINATE FINAL DEVICE LOCATIONS, POWER AND CONTROL WIRING REQUIREMENTS WITH SECURITY/ACCESS CONTROL DESIGNER/INSTALLER AND OWNER PRIOR TO ROUGH-IN.

FLAG NOTES

- 1. MODULAR FURNITURE POWER WHIP AND DATA CONNECTION LOCATION. CONFIRM CIRCUITING AND DATA CABLING REQUIREMENTS PRIOR TO ROUGH-IN.
- 2. PROVIDE (2) 4" PVC SLEEVES ABOVE TELEPHONE BACKBOARD INTO CEILING SPACE FOR LOW VOLTAGE CABLING.
- 3. SECURITY/ACCESS CONTROL PANEL LOCATION. PROVIDE (2) 2" PVC SLEEVES ABOVE PANEL INTO CEILING SPACE FOR LOW VOLTAGE CABLING.
- 4. ROUGH-IN LOCATION FOR ELECTRIC RANGE. PROVIDE AND INSTALL 4X4 JUNCTION BOX WITH BLANK COVER PLATE AND ROUTE 1" C EMT RACEWAY ONLY FROM JUNCTION BOX BACK TO PANEL P1. INSTALLATION OF 2-POLE CIRCUIT BREAKER, RANGE RECEPTACLE, AND CONDUCTORS TO BE DETERMINED. CONFIRM ELEVATION OF JUNCTION BOX LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. FINAL ELECTRICAL CONNECTION TO RANGE NOT IN CURRENT SCOPE OF WORK.
- 5. ROUGH-IN ONLY FOR NEW RANGE HOOD. PROVIDE JUNCTION BOX AND RACEWAY TO CLOSEST JUNCTION BOX IN CEILING SPACE FOR CONNECTION. FINAL ELECTRICAL CONNECTION TO RANGE HOOD NOT IN SCOPE OF WORK.



POWER/COMMUNICATIONS PLAN

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



LIGHTING PLAN

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



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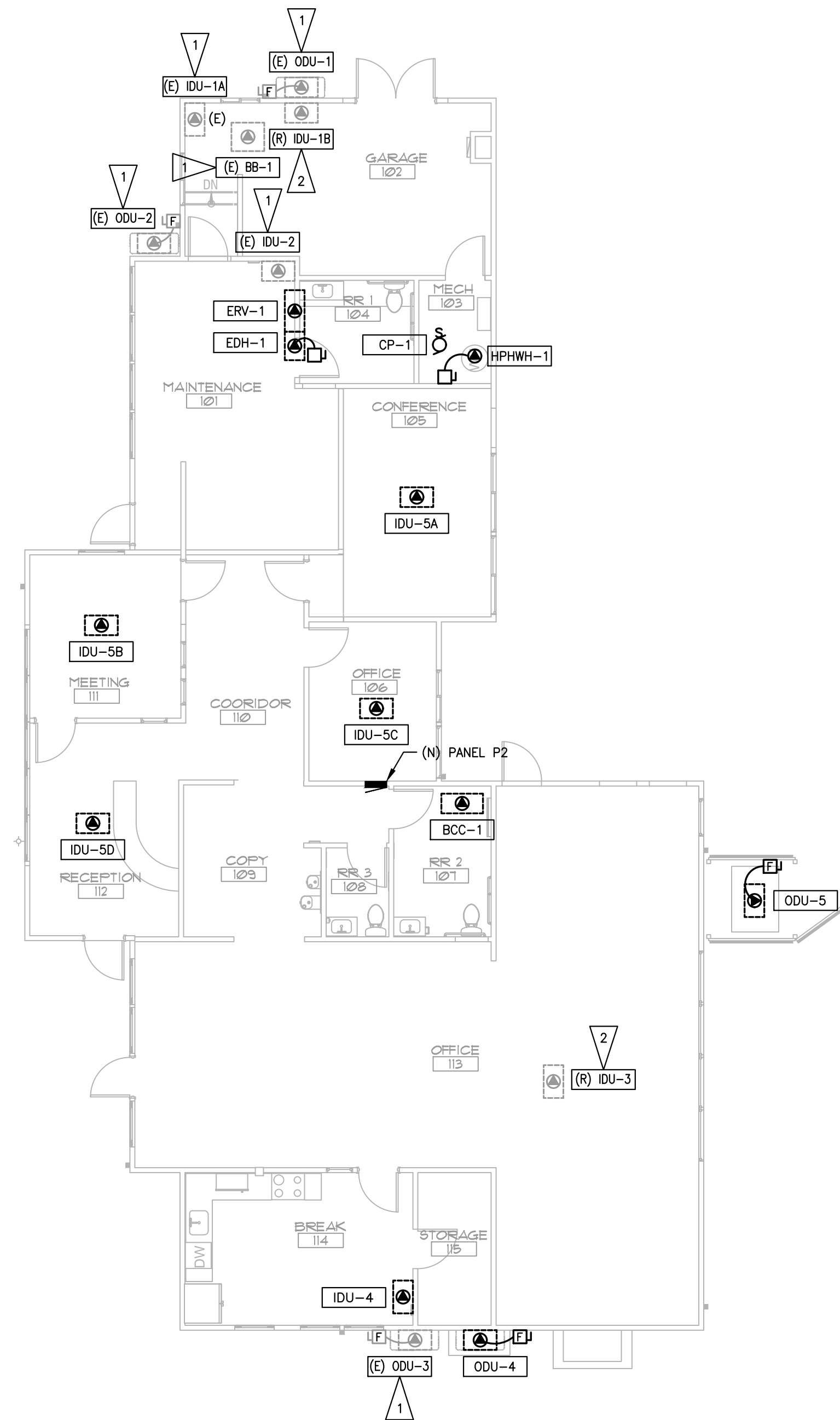
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POWER/
COMMUNICATIONS
AND LIGHTING
PLANS



GENERAL NOTES:

- FOR CIRCUITING INFORMATION SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E9.1.
- ALL POWER DERIVED OUT OF PANEL 'P1' UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT TO BE PROVIDED WITH PROPER WORKING CLEARANCES PER NEC 110 REQUIREMENTS.

FLAG NOTES

- EXISTING UNIT TO BE SALVAGED AND REINSTALLED AT SAME LOCATION. NO LOAD MODIFICATIONS.
- EXISTING UNIT RELOCATED. CONFIRM NEW LOCATION WITH MECHANICAL ENGINEERING DOCUMENTS. REUSE EXISTING CIRCUIT, EXTEND AS REQUIRED. NO LOAD MODIFICATIONS.

MECHANICAL CONNECTIONS PLAN

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



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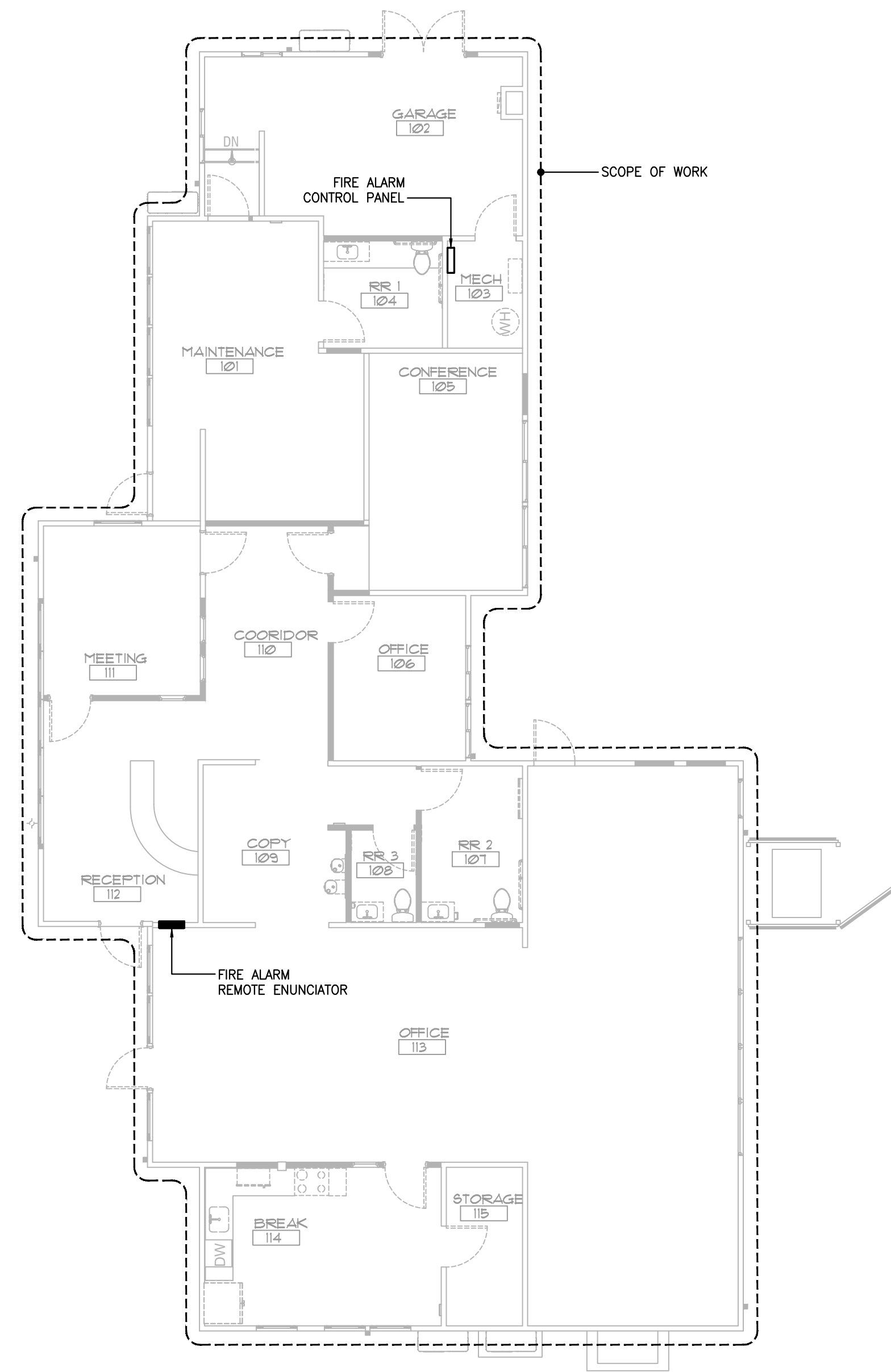
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MECHANICAL
CONNECTIONS
PLAN

E4.1



GENERAL NOTES:

1. REMOVE EXISTING FIRE ALARM CONTROL PANEL PER DEMO PLAN. LOCATE NEW PANEL PER PLAN. RECONNECT ALL EXISTING DEVICES IN WEST PORTION OF BUILDING TO NEW PANEL.
2. FIRE ALARM SYSTEM IS BIDDER DESIGNED SEE SPECIFICATIONS 283111 FOR ADDITIONAL INFORMATION. COMPLY WITH ALL REQUIREMENTS INCLUDING AUBURN CITY CODE CHAPTER 15.36A AND AUBURN FIRE CODE.
3. SUBMIT COMPLETE DRAWINGS AND CALCULATIONS TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
4. SUBMIT APPROVED DRAWINGS AND CALCULATIONS TO ENGINEER FOR REVIEW.
5. COORDINATE ALL DEVICE LOCATIONS WITH OWNER AND ARCHITECTURAL INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN.
6. EXISTING FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY – CONTRACTOR SHALL FIELD VERIFY.
7. PROVIDE CIRCUITS FOR ALL NEW DEVICES LOCATIONS & MAINTAIN CIRCUITS TO EXISTING DEVICES.
8. DEVICE LAYOUT SHOWN IS FOR PREFERRED LOCATIONS ONLY. CONTRACTOR IS REQUIRED TO PROVIDE SYSTEM COMPLIANT WITH AHJ'S REQUIREMENTS. CONTRACTOR SHALL INCLUDE ADDITIONAL DEVICES IN BID BEYOND THE QUANTITY SHOWN ON DRAWINGS AS FOLLOWS: (2)SMOKE DETECTORS & (3) HORN/STROBE/SPEAKER DEVICES.

FIRE ALARM SYSTEM PLAN

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



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FIRE ALARM
SYSTEM PLAN

E7.1



ELECTRICAL | LIGHTING | TELECOM | SECURITY

19515 North Creek Parkway, Suite 302

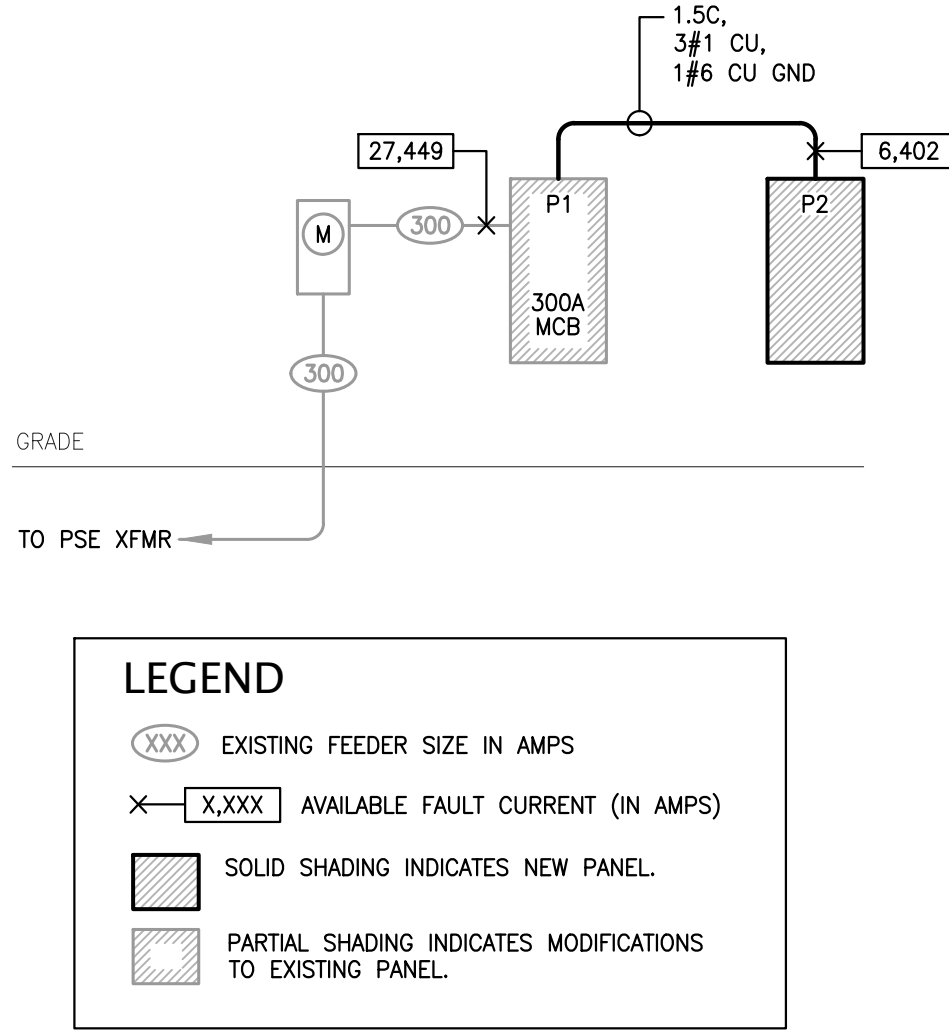
Bothell, WA 98011

425-402-9400 office@caseeng.com



PANEL: P1 (EXISTING) table with columns: PROJECT NAME, LOCATION, CIRCUIT NAME, CB SIZE, LOAD (KVA), PANEL DESCRIPTION, and notes.

PANEL: P2 (NEW) table with columns: PROJECT NAME, LOCATION, CIRCUIT NAME, CB SIZE, LOAD (KVA), PANEL DESCRIPTION, and notes.



EXISTING RISER DIAGRAM NOT TO SCALE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE table with columns: TAG, DESCRIPTION, HP /KW /VA, VOLTS / PHASE, MCA, FUSE (MOCBP), DISC. SWITCH, CIRCUIT, TAG, REMARKS, NOTES.

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Revisions: Table with columns for No., Date, and Remarks.

EXISTING RISER DIAGRAM & PANEL SCHEDULES

E9.1