

PROLOGIS - PUYALLUP 1 - SUITE 103 T.I.

PRCTI20221019

PUYALLUP, WASHINGTON

GENERAL PROJECT NOTES

1. THE APPROVED PLANS SHALL NOT BE CHANGED OR ALTERED WITHOUT AUTHORIZATION FROM THE BUILDING OFFICIAL. THE APPROVED PLANS ARE REQUIRED TO BE ON THE JOB SITE.
2. CONTRACTOR SHALL VERIFY AND CHECK ALL CONDITIONS AND DIMENSIONS AT THE BUILDING. REPORT ANY INCONSISTENCIES TO THE ARCHITECT.
3. ALL WORK SHALL MEET LOCAL CODES AND ORDINANCES.
4. ALL NAILING SHALL COMPLY WITH NAILING SCHEDULE OF THE IBC.
5. COMPLIANCE CARD TO BE POSTED VERIFYING INSULATION INSTALLED IN WALL, CEILINGS, AND FLOORS (IF REQUIRED).
6. ALL WOOD COMING IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED (DECAY RESISTANT).
7. IF ANY ERRORS, OMISSIONS OR INCONSISTENCIES APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ARCHITECT IN WRITING OF SUCH OMISSIONS, ERRORS, OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK, OR ACCEPT FULL RESPONSIBILITY FOR COSTS TO RECTIFY SAME.
8. TYPICAL DETAILS OR BUILDING STANDARDS SHALL APPLY WHERE NO SPECIFIC DETAILS ARE GIVEN.
9. ALL DIMENSIONS ARE MEASURED TO OUTSIDE FACE OF FRAMING.
10. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, ELEVATIONS, SECTIONS, AND DETAILS.
11. ALL EXIT DOORS TO BE OPERABLE FROM INSIDE THE BUILDING WITHOUT KEYS OR SPECIAL KNOWLEDGE OR EFFORT.
12. FIRE EXTINGUISHERS SHALL BE PROVIDED PER NFPA #10, OR REQUIREMENTS OF LOCAL FIRE OFFICIALS.
13. ALL EQUALS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
14. BIDDER DESIGN WORK TO BE APPROVED BY OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
15. MANUALLY OPERATED FLUSH BOLTS ARE NOT PERMITTED AND NO MORE THAN ONE OPERATION FOR THE UNLATCHING IS ALLOWED.
16. ALL NEW CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
17. FOR EMERGENCY LIGHTING:

17.1 THE ILLUMINATION LEVEL SHALL BE AT 1 FC AT THE WALKING SURFACE.

17.2 POWER SUPPLY BY PREMISES POWER SUPPLY.

17.3 IN THE EVENT OF POWER FAILURE EMERGENCY LIGHTING SHALL BE PROVIDED FOR NO LESS THAN 90 MIN. AT AISLES, CORRIDORS, EXIT DISCHARGE ELEMENTS, AND EXTERIOR LANDINGS.

SYMBOLS

1	NUMBER	REFERENCE GRID LINES
A	LETTER	
X XX X	SECTION NUMBER SHEET NUMBER	WALL SECTION
X XX X	ELEVATION NUMBER SHEET NUMBER	ELEVATION
2 A1.2	VIEW NUMBER SHEET NUMBER	CALLOUT
X XX X	DETAIL NUMBER SHEET NUMBER	DETAIL
1	NORTH ARROW	
ROOM TAG 106	ROOM NAME SHEET NUMBER	ROOM NAME AND NUMBER
X	DOOR NUMBER	DOOR TAG
EX 1	EXIT DOOR NUMBER	EXISTING EXIT DOOR
1	REVISION NUMBER	REVISION TAG
EXIT LIGHTING	EXIT LIGHTING	
A	EGRESS DIRECTION	

LEGEND

=====	EXISTING WALLS TO REMAIN
==	WALLS, DOORS, WINDOWS, & FIXTURES TO BE REMOVED, PATCH OR REPAIR AS REQUIRED AND PREPARE FOR NEW FINISH / INSTALLATION
=====	NEW INTERIOR PARTITION WALL, TO UNDERSIDE OF CEILING SYSTEM, U.N.O., W/ 3 5/8" METAL STUDS AT 24" O.C. & (1) LAYER OF 5/8" TYPE 'X' GYP. BD. EACH SIDE, PAINT PER BUILDING STANDARD AS REQUIRED; SEE WALL DETAILS

SITE & BUILDING INFORMATION

TAXPAYER	PROLOGIS 12720 GATEWAY DR., SUITE 110 TUKWILA, WA 98168
TAX PARCEL NUMBER	0420212076
PROJECT ADDRESS	1601 INDUSTRIAL PARKWAY PUYALLUP, WA 98371
GOVERNING BUILDING CODE	2018 INTERNATIONAL BUILDING CODE W/ WASHINGTON STATE AMENDMENTS
GOVERNING MUNICIPAL CODE	PUYALLUP MUNICIPAL CODE
SITE STATISTICS	
ZONE	ML - LIMITED MANUFACTURING
SITE AREA	EXISTING, NO CHANGE
ALLOWABLE LOT COVERAGE	EXISTING
REQUIRED BUILDING SETBACKS	EXISTING
FRONT SIDES	EXISTING
REAR	EXISTING
ALLOWABLE FAR	EXISTING
ACTUAL FAR	EXISTING
BUILDING STATISTICS	
ALLOWABLE HEIGHT	EXISTING
ACTUAL HEIGHT	32' EXISTING, NO CHANGE
CONSTRUCTION TYPE	TYPE III-B, FULLY SPRINKLERED
EXISTING OCCUPANCY TYPE	B, S-1 (EXISTING)

Approval of submitted plans is not an approval of omissions or oversights by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

ENERGY CODE REQ.

GOVERNING ENERGY CODE: 2018 WASHINGTON STATE ENERGY CODE	
COMPONENT PATH	
BUILDING SPACE TYPE HEAT IS "OTHER" (ALL OTHERS INCLUDING HEAT PUMPS AND VARIABLE AIR VOLUME), ELECTRIC RESISTANCE HEATING NOT ALLOWED.	
REQUIRED INSULATION VALUES FOR CONDITIONED SPACES:	
CLIMATE ZONE 4C	
BUILDING ROOF (NO ATTIC)	R-11 CONTINUOUS EXISTING ABOVE DECK INSULATION, PROVIDE ADDED R-38 BATT INSULATION AT UNDERSIDE OF DECK TO ACHIEVE R-49 TOTAL ROOF INSULATION.
OPAQUE WALLS	EXISTING, NO CHANGE
MASS WALLS	R-19 W/ R-10 RIGID
METAL FRAMING	N/A
WOOD FRAMING & OTHER	U-0.38
OPAQUE DOORS	N/A
FLOOR OVER UNCONDITIONED SPACE	EXISTING, NO CHANGE
SLAB-ON-GRADE	EXISTING, NO CHANGE
VERTICAL GLAZING	EXISTING, NO CHANGE

LIGHTING:

ALL AREAS ENCLOSED BY WALLS OR FULL HEIGHT PARTITIONS REQUIRED AT LEAST ONE MANUAL CONTROL FOR LIGHTING.

EACH AREA REQUIRED TO HAVE MANUAL CONTROLS SHALL ALSO HAVE A CONTROL TO REDUCE LIGHTING BY 50% IN A REASONABLE UNIFORM ILLUMINATION PATTERN OR PROVIDE AN OCCUPANCY SENSOR DEVICE.

OCCUPANCY SENSORS ARE REQUIRED IN: TRAINING ROOMS, CLASSROOMS, BREAKROOMS, CONFERENCE ROOMS, PRIVATE OFFICES, RESTROOMS, JANITOR ROOMS, STORAGE ROOMS, WAREHOUSES, AND ANY ROOM 300 SQUARE FEET OR LESS ENCLOSED BY FULL HEIGHT WALLS. THE SENSORS SHALL TURN OFF THE LIGHT WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

RECEPTACLES:

PER THE WASHINGTON ADMINISTRATIVE CODE, SECTION C405.10, "CONTROLLED RECEPTACLES": AT LEAST 50 PERCENT OF ALL 125 VOLT 15- AND 20-AMPERE RECEPTACLES INSTALLED IN PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND / OR COPYING FUNCTIONS, BREAK ROOMS, INDIVIDUAL WORKSTATIONS AND CLASSROOMS, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULAR OFFICE WORKSTATION SYSTEMS, SHALL BE CONTROLLED AS REQUIRED BY THIS SECTION. IN ROOMS LARGER THAN 200 SQUARE FEET (19 SQUARE METERS), A CONTROLLED RECEPTACLE SHALL BE LOCATED WITHIN 72 INCHES (1.8 M) OF EACH UNCONTROLLED RECEPTACLE. CONTROLLED RECEPTACLES SHALL BE VISIBLY DIFFERENTIATED FROM STANDARD RECEPTACLES AND SHALL BE CONTROLLED BY ONE OF THE FOLLOWING AUTOMATIC CONTROL DEVICES:

1. AN OCCUPANT SENSOR THAT TURNS RECEPTACLE POWER OFF WHEN NO OCCUPANTS HAVE BEEN DETECTED FOR A MAXIMUM OF 20 MINUTES.
2. A TIME-OF-DAY OPERATED CONTROL DEVICE THAT TURNS RECEPTACLE POWER OFF AT SPECIFIC PROGRAMMED TIMES AND CAN BE PROGRAMMED SEPARATELY FOR EACH DAY OF THE WEEK. THE CONTROL DEVICE SHALL BE CONFIGURED TO PROVIDE AN INDEPENDENT SCHEDULE FOR EACH PORTION OF THE BUILDING NOT TO EXCEED 5,000 SQUARE FEET (465 M2) AND NOT TO EXCEED ONE FULL FLOOR. THE DEVICE SHALL BE CAPABLE OF BEING OVERRIDDEN FOR PERIODS OF UP TO TWO HOURS BY A TIMER IN A LOCATION WITH ACCESS TO OCCUPANTS. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE CONTROLLED RECEPTACLES FOR A MAXIMUM AREA OF 5,000 SQUARE FEET (465 SQAURE METETS), OVERRIDE SWITCHES FOR CONTROLLED RECEPTACLES ARE PERMITTED TO CONTROL THE LIGHTING WITHIN THE SAME AREA.

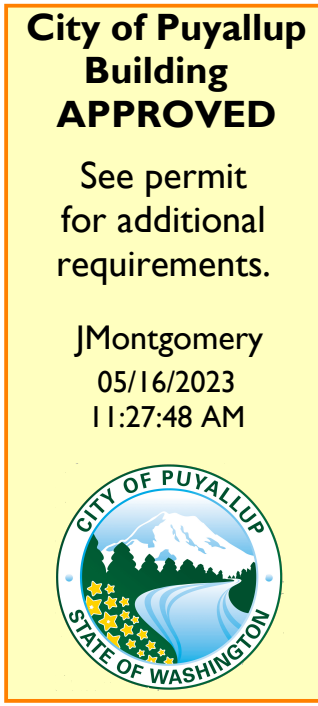
EXEPTION: RECEPTACLES DESIGNATED FOR SPECIFIC EQUIPMENT REQUIRING 24 HOUR OPERATION, FOR BUILDING MAINTENANCE FUNCTIONS, OR FOR SPECIFIC SAFETY OR SECURITY EQUIPMENT ARE NOT REQUIRED TO BE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE AND ARE NOT REQUIRED TO BE LOCATED WITHIN 72 INCHES (1.8 M) OF A CONTROLLED RECEPTACLE.

LEGAL DESCRIPTION

SECTION 21 TOWNSHIP 20 RANGE 04 QUARTER 23 L 1 OF DBLR 2007-06-28-5005 DESC AS BEG AT INTER OF SELY PUY IND RES LI AND N LI OF N LEEVE RD TH N 66 DEG 45 MIN 04 SEC W 381.81 FT TH N 66 DEG 45 MIN 55 SEC W 128.49 FT THS 34 DEG 32 MIN 45 SEC E 8.80 FT TH N N 65 DEG 38 MIN 56 SEC W 59.37 FT TH N 24 DEG 21 MIN 04 SEC E 15 FT TH S 89 DEG 32 MIN 08 SEC E 26.43 FT TO BEG OF NON TANG CURVE CONCAVE NWLY RAD OF 38 FT & CENTRAL ANGLE OF 50 DEG 13 MIN 31 SEC TH NELY ALG ARC OF SD C TO L FROM WHICH A TANG LI BEARS N 74 DEG 35 MIN 06 SEC E 33.31 FT TO A PT OF TANG TH N 24 DEG 21 MIN 35 SEC E 70.66 FT TO BEG OF A CURVE CONCAVE WLY RAD OF 270 FT & CENTRAL ANGLE OF 23 DEG 34 MIN 46 SEC TH NLY ALG ARC OF SD C TO L 111.12 FT TH N 00 DEG 46 MIN 49 SEC E 299.51 FT TO BEG OF CURVE CONCAVE ELY RAD 330 FT & A CENTRAL ANGLE OF 38 DEG 09 MIN 03 SEC TH NLY ALG ARC OF C TO R 219.73 FT TH N 38 DEG 55 MIN 52 SEC E 582.96 FT TH S 96 DEG 32 MIN 20 SEC E 844.26 FT TO SD SELY LI OF PUY IND RES TH S 38 DEG 57 MIN 46 DEG W 1157.36 FT TO POB EXC THAT POR CYD TO CY OF PUYALLUP FOR R/W PER ETN 4207692 OUT OF 2-072 SEG 2010-0061 JU 8/20/09JU

THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION



VICINITY MAP



BUILDING AREAS

OVERALL BUILDING AREAS: 2018 INTERNATIONAL BUILDING CODE	
EXTERIOR FOOTPRINT FULL BUILDING	384,794 SF
EXISTING OFFICE (B)	524 SF
EXISTING WAREHOUSE (S-1)	139,476 SF
PROPOSED OFFICE (B)	2,565 SF
PROPOSED WAREHOUSE (S-1)	136,912 SF

PROJECT SCOPE

TENANT IMPROVEMENT TO BUILD A NEW OFFICE WITHIN AN EXISTING WAREHOUSE SUITE AND REVISE AN EXISTING TOILET PARTITION TO MEET ADA STANDARDS IN THE EXISTING MEN'S RESTROOM.

AREA OF WORK	2,565 SF
NO CHANGE TO EXITING.	

DRAWING INDEX

ARCHITECTURAL	
G0.0	COVER SHEET
G1.0	SUITE 103 EGRESS AND LIFE SAFETY PLAN
A1.0	ENLARGED OFFICE FLOOR PLANS
A1.1	OFFICE CEILING & LIGHTING PLANS
A2.0	ELEVATIONS, SCHEDULES, & CASEWORK DETAILS
A2.1	DETAILS
A2.2	SUSPENDED CEILING SYSTEM DETAILS
A4.0	PROLOGIS CUSTOMER FINISH STANDARDS
A4.1	PROLOGIS CUSTOMER FINISH STANDARDS
STRUCTURAL	
S1.0	STRUCTURAL RTU ADDITION DETAILING
MECHANICAL	
M0.1	MECHANICAL GENERAL INFORMATION
M0.2	MECHANICAL EQUIPMENT SCHEDULES
M0.3	MECHANICAL GENERAL AND CODE NOTES
M1.0	HVAC FLOOR PLAN
M1.1	HVAC ROOF PLAN
M2.0	MECHANICAL DETAILS
M3.0	HVAC ELEVATION
PLUMBING	
P0.1	PLUMBING GENERAL INFORMATION
P0.2	PLUMBING EQUIPMENT SCHEDULES
P0.3	PLUMBING GENERAL AND CODE NOTES
P1.0	PLUMBING FLOOR PLAN
P1.1	PLUMBING ROOF PLAN
P1.2	PLUMBING OVERALL PLAN
P2.0	PLUMBING DETAILS

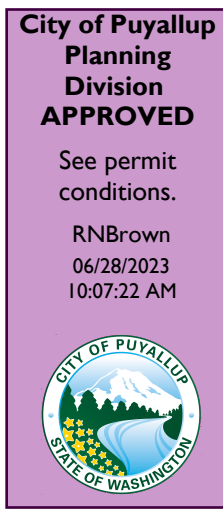
PROJECT TEAM

ARCHITECT:	OWNER:
JACKSON MAIN ARCHITECTURE 311 FIRST AVE. S SEATTLE, WA 98104 (206) 324-4800 CONTACTS: ALEX WRIGHT, DESIGNER (EMAIL: ALEX.WRIGHT@JACKSONMAIN.COM)	PROLOGIS 12720 GATEWAY DR., SUITE 110 TUKWILA, WA 98168 (206) 414-7626 CONTACT: JAMES BIRCHARD, OPERATIONS CONSTRUCTION MANAGER (EMAIL: JBIRCHARD@PROLOGIS.COM)
GENERAL CONTRACTOR: TBD	

SEPARATE SUBMITTALS

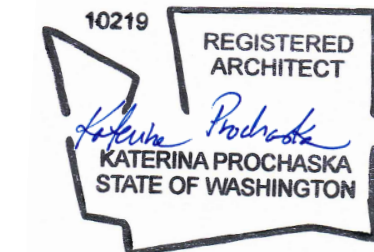
GENERAL CONTRACTOR SHALL SUBMIT FOR AND OBTAIN PERMITS FOR ALL SEPARATE WORK INCLUDING:

- FIRE SPRINKLER
- ELECTRICAL PERMIT TO L&I
- STORAGE RACKING
- FIRE ALARM



All commercial development must have a sampling tee installed on their sewer lateral. See Standard Detail 04.03.04

Occupancy will not be granted until the sewer sampling tee has been installed and a final inspection has been approved on the installation.



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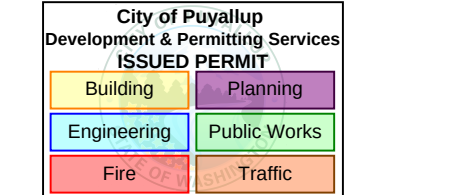
PRINT RECORD

1	06/27/22	PERMIT SUBMITTAL
1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
2	04/07/23	PERMIT CORRECTION 2 RE-SUBMITTAL
3	05/02/23	PERMIT CORRECTION 3 RE-SUBMITTAL

REVISION RECORD

1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
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PROLOGIS
PUYALLUP 1-
SUITE 103 T.I.



PROLOGIS PUYALLUP 1
1601 INDUSTRIAL PARK WAY
PUYALLUP, WA 98371



12720 GATEWAY DR.
SUITE 110
TUKWILA, WA 98168

PHONE: (206) 414-7600
FACSIMILE: (206) 414-7601

DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE: COVER SHEET

SHEET NUMBER:

G0.0

☒ RELEASED FOR CONSTRUCTION
☐ NOT RELEASED FOR CONSTRUCTION

LIFE SAFETY LEGEND

	EGRESS DIRECTION
	PORTABLE FIRE EXTINGUISHER WALL MOUNTED REFER TO DETAILS 14/A2.1

LIFE SAFETY NOTES

THE BUILDING AND TENANT SUITE IS FULLY SPRINKLERED.

OCCUPANCY BY AREA

SPACE	AREA	SF/OCCUPANT	OCCUPANTS
OFFICE (B)	2,433 SF	150	17
WAREHOUSE (S-1)	136,912 SF	500	273
CONFERENCE ROOM (B)	256 SF	15	18
BREAK ROOM (B)	399 SF	15	27
		TOTAL	331

EXITS: NO CHANGE TO EXISTING.

2 REQUIRED; 9 PROVIDED

EXIT WIDTH:

REQUIRED DOOR EXIT WIDTH 331 x 0.20" = 66.2"
PROVIDED DOOR EXIT WIDTH 288"

INDIVIDUAL EXIT WIDTHS:

EXIT 1 REQUIRED: 147.5 x 0.20" = 29.5"
PROVIDED: 32"

EXIT 2 REQUIRED: 147.5 x 0.20" = 29.5"
PROVIDED: 32"

EXITS 3 - 9 REQUIRED: 33 x 0.20" = 6.6"
PROVIDED: 32" EACH

EGRESS NOTES

1. PER PREVAILING BUILDING CODE, WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FOR ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.

BUILDING DIAGONAL: 625' - 2"
MINIMUM REQUIRED SEPARATION: 625' - 2" / 3 = 208'-5"
PROVIDED SEPARATION: 515' - 6"

2. PER PREVAILING BUILDING CODE 1017.2.2, EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 250 FT.

EXIT PATH A: 68' - 9"
EXIT PATH B: 86' - 8"
EXIT PATH C: 244' - 2"
EXIT PATH D: 245' - 0"
EXIT PATH E: 244' - 1"
EXIT PATH F: 53' - 8"

3. GENERAL CONTRACTOR SHALL VERIFY EXISTING FIRE EXTINGUISHER CONDITION AND LOCATIONS AND UPGRADE AS NEEDED TO MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL FIRE CODE AND NFPA 10:

3.1. FIRE EXTINGUISHERS SHALL BE MOUNTED ALONG EGRESS PATHS WHEREVER POSSIBLE, WITH TOPS AT NO MORE THAN 60" A.F.F. AND BOTTOMS AT NO LESS THAN 4" A.F.F.; SEE FIRE EXTINGUISHER MOUNTING DETAIL 18/A2.1.

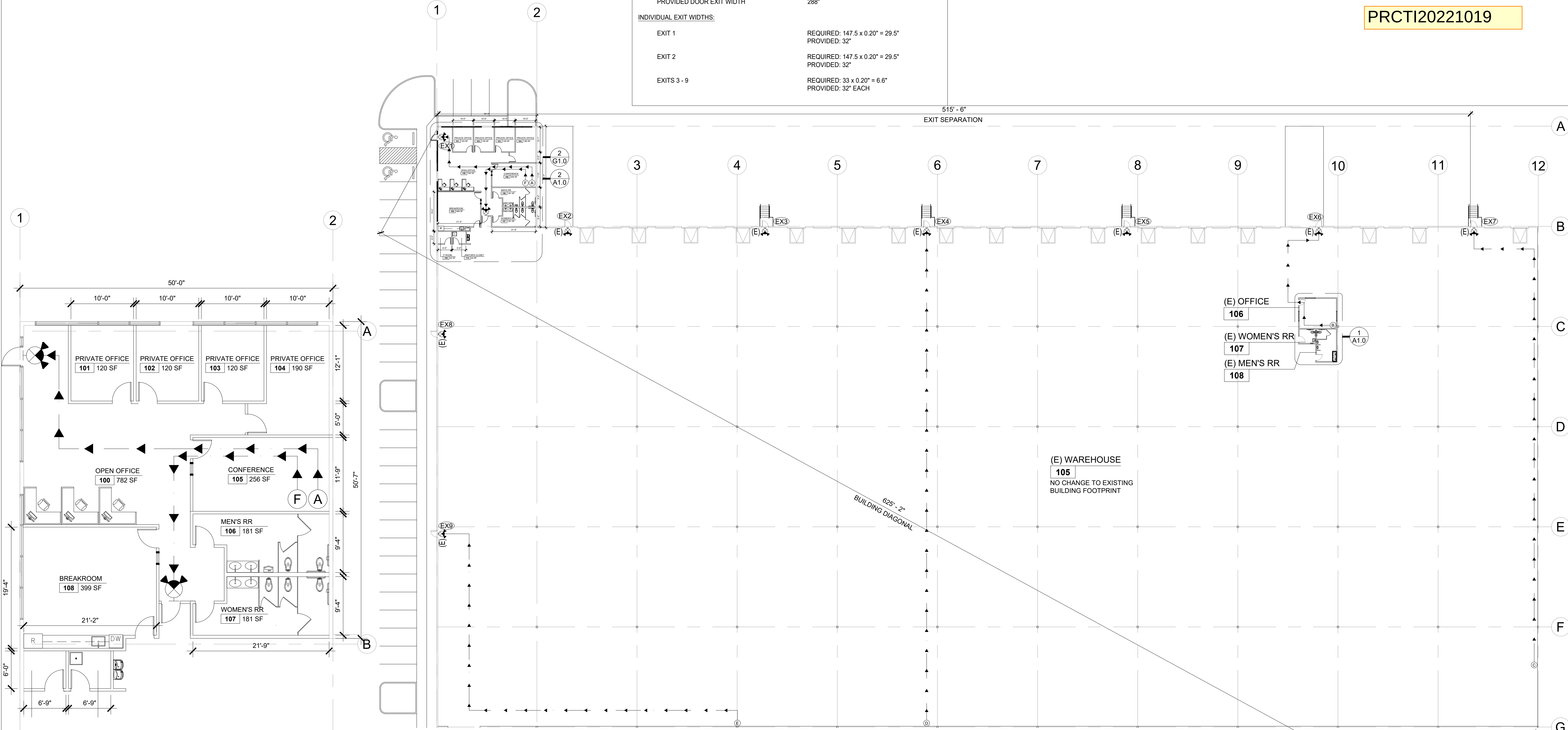
3.2. THE MINIMUM FIRE EXTINGUISHER RATING SHALL BE 2A:10B:C FOR LIGHT HAZARD OCCUPANCIES (SUCH AS OFFICES) AND ORDINARY HAZARD OCCUPANCIES (SUCH AS MERCANTILE).

3.3. THE MINIMUM FIRE EXTINGUISHER RATING SHALL BE 4A:10B:C FOR HIGH HAZARD OCCUPANCIES (SUCH AS HIGH-PILE STORAGE).

3.4. THE MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER SHALL BE 75 FT.

3.5. EACH UNIT OF "A" MAY COVER UP TO 3,000 SQ. FT. OF FLOOR AREA IN ORDINARY HAZARD OCCUPANCIES, AND UP TO 1,000 SQ. FT. OF FLOOR AREA IN HIGH HAZARD OCCUPANCIES. ADDITIONAL EXTINGUISHERS MAY BE REQUIRED DUE TO SPECIFIC HAZARDS AS OUTLINED IN SECTION 906 OF THE 2018 INTERNATIONAL FIRE CODE. VERIFY ON SITE WITH INSPECTOR AS NEEDED.

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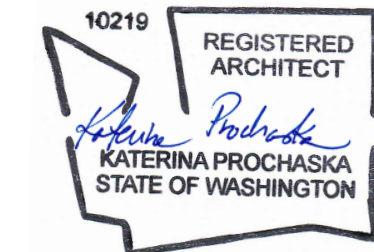


2 SUITE 103 OFFICE EGRESS PLAN
1/8" = 1'-0"

1 OVERALL SUITE 103 EGRESS PLAN
1" = 25'-0"



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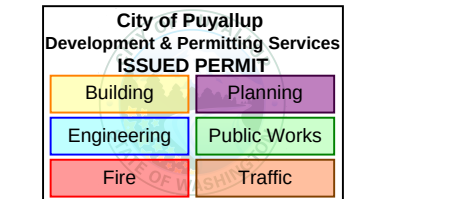
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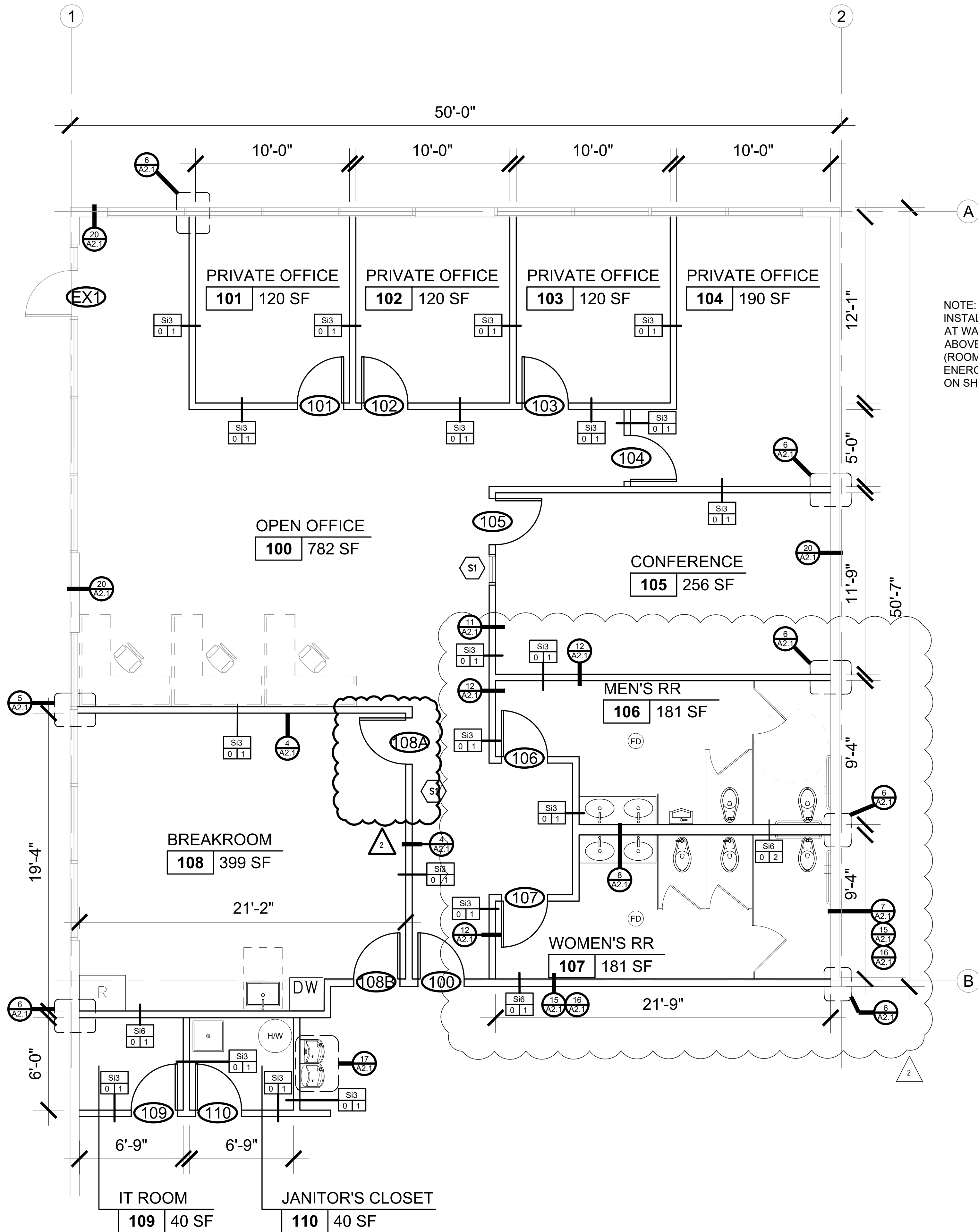
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PHONE: (206) 414-7600
FACSIMILE: (206) 414-7601

DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:
SUITE 103 EGRESS
AND LIFE SAFETY PLAN

SHEET NUMBER:
G1.0
RELEASED FOR CONSTRUCTION
NOT RELEASED FOR CONSTRUCTION



OPTION 1 - 2,500 SF OFFICE LAYOUT
1/4" = 1'-0"

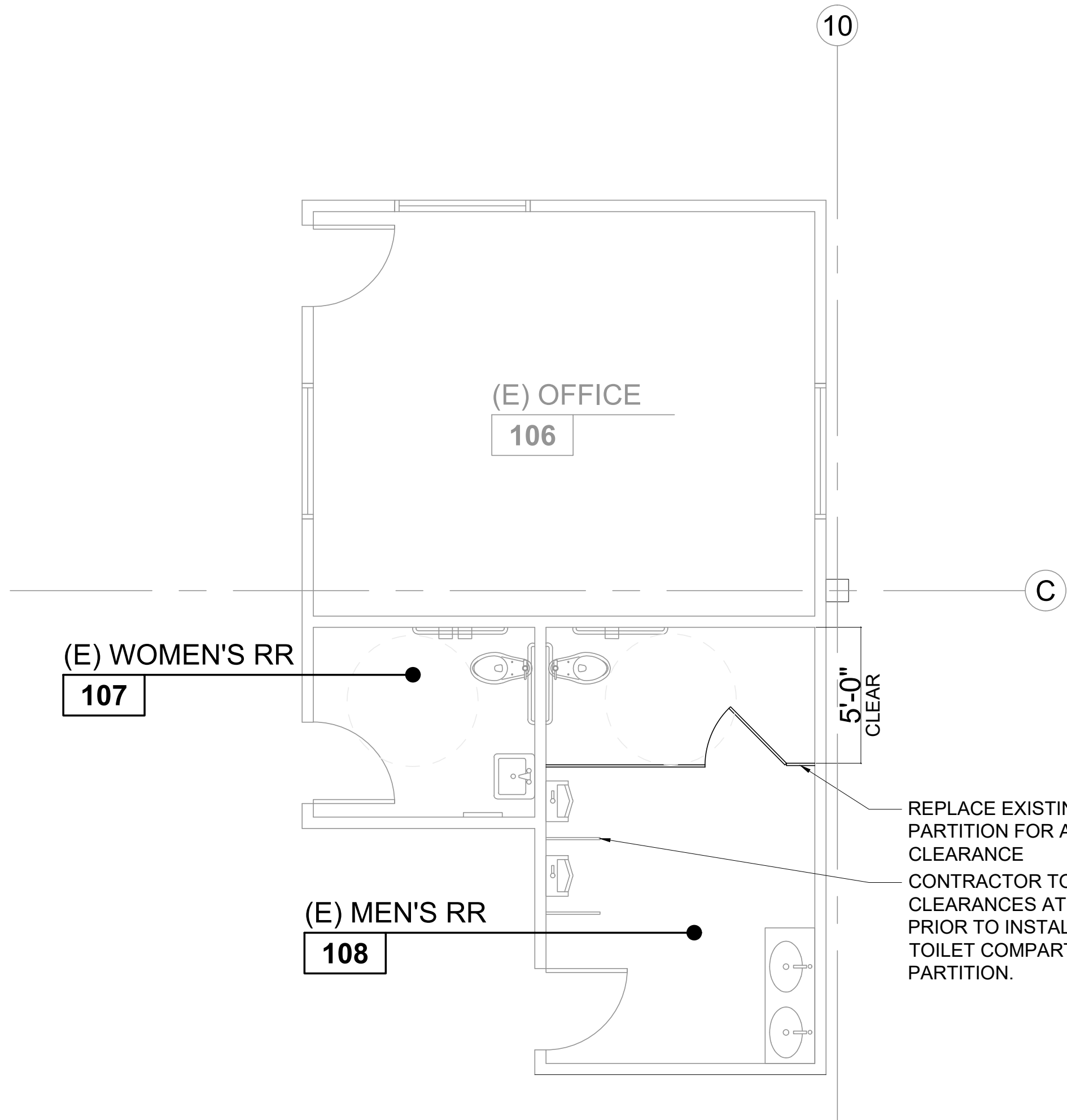
PROLOGIS FINISHES

CARPET - PATCRAFT 24"x24" SILVER NICKEL 801G6 ATOMIC 00590 (BLACK AND GRAY)
BASE - PATCRAFT CARBON 00001 S042V (BLACK)
PAINT - SHERWIN WILLIAMS WHITETAIL SW7103
BATHROOM FLOOR SHEET VINYL - PATCRAFT RELEVANT I455V OBSIDIAN 00505 (DARK BLUE)
BATHROOM FRP (WAINSCOTING) - MARLITE (FOR USE WITH A DARK FLOOR) P151 LIGHT GREY
BREAKROOM CABINETS PLAM
CABINET - WILSONART COSMIC STRANDZ 4941K-18
COUNTERTOP - WILSONART OILED SOAPSTONE 4882-38
BREAKROOM FLOORING LVP (LUXURY VINYL PLANK) - PATCRAFT 6"x48" PLATINUM LVP I421V NICKEL 00550
IT ROOM VCT - SMOKEY BROWN

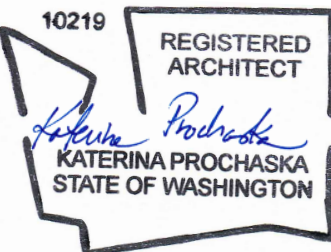
NOTE: CONTRACTOR TO
INSTALL BATT INSULATION
AT WAREHOUSE CEILING
ABOVE NEW OFFICE
(ROOMS, 100-110) PER
ENERGY CODE ANALYSIS
ON SHEET G0.0.

- CONSTRUCTION NOTES**
1. REFER TO G0.0 FOR SYMBOLS AND GENERAL PROJECT NOTES.
 2. REFER TO DETAIL SHEETS FOR SPECIFIC WALL ASSEMBLY INFORMATION.
 3. REFER TO DOOR AND WINDOW MANUFACTURER SPECIFICATIONS FOR ACTUAL ROUGH OPENING SIZES.
 4. GENERAL NOTES ON THIS PAGE DO NOT EXCLUDE NOTES ELSEWHERE; THIS DOCUMENT SET IS COMPLEMENTARY; NOTES ON OTHER SHEETS MAY HAVE BEARING/ APPLICATION TO WORK SHOWN ON THIS SHEET.
 5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT WORK AND FINISHES, EXISTING OR NEW, AND SHALL REPLACE AT THEIR EXPENSE.
 6. WHEREVER NEW WALLS ABUTT EXISTING WALLS, PAINT ENTIRE WIDTH OF WALL TO THE NEAREST EDGE, CORNER OR WALL BREAK, AT BOTH ENDS. MATCH EXISTING ADJACENT WALL FINISH(S).
 7. REFER TO 12/A2.0 FOR STANDARD MOUNTING HEIGHTS FOR NEW PLUMBING FIXTURES.
 8. PROVIDE SUPPORT WALL BACKING FOR ALL WALL-MOUNTED ITEMS. PROVIDE BACKING PLATES AS REQUIRED BY THE WEIGHT BEING SUPPORTED FOR ALL CASEWORK AND COUNTER.
 9. PROTECT EXISTING FINISHES TO REMAIN. PROVIDE SEAMLESS/SMOOTH TRANSITION BETWEEN NEW AND EXISTING SURFACES.
 10. WHERE EXISTING OFFICE SPACE IS OCCUPIED AND IN OPERATION FOR THE PERIOD OF THE WORK, ARRANGE AND CARRY OUT THE WORK WITH MINIMAL DISTURBANCE TO THE TENANT. PROVIDE TEMPORARY DUST PROOF BARRIER AS NECESSARY TO PREVENT CONSTRUCTION DUST AND DEBRIS FROM ENTERING OCCUPIED SPACES DIRECTLY OUTSIDE THE AREA OF CONSTRUCTION WORK.
 11. MAINTAIN EXIT ACCESS AT ALL TIMES.
 12. PATCH AND REFINISH EXISTING WALLS WITHIN THE AREA OF WORK AS NECESSARY FOR NEW APPEARANCE.
 13. CONTRACTOR TO VERIFY EXISTING CONDITIONS OF EXISTING CONCRETE TILT WALLS. EXISTING COMPONENTS- INCLUDING, BUT NOT LIMITED TO ELECTRICAL, FRAMED FURRING- ATTACHED TO WALLS TO BE REMOVED TO ALLOW FOR INSTALLATION OF RIGID INSULATION PER DETAILS ON A2.1.

PRCTI20221019



ENLARGED (E) OFFICE FLOOR PLAN
1/4" = 1'-0"



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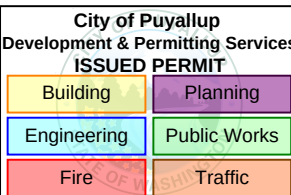
PRINT RECORD

NO.	DATE	DESCRIPTION
1	06/27/22	PERMIT SUBMITTAL
1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
2	04/07/23	PERMIT CORRECTION 2 RE-SUBMITTAL
3	05/02/23	PERMIT CORRECTION 3 RE-SUBMITTAL

REVISION RECORD

NO.	DATE	DESCRIPTION
1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
2	04/07/23	PERMIT CORRECTION 2 RE-SUBMITTAL
3	05/02/23	PERMIT CORRECTION 3 RE-SUBMITTAL

**PROLOGIS
PUYALLUP 1-
SUITE 103 T.I.**



PROLOGIS PUYALLUP 1
1601 INDUSTRIAL PARK WAY
PUYALLUP, WA 98371



12720 GATEWAY DR.
SUITE 110
TUKWILA, WA 98168

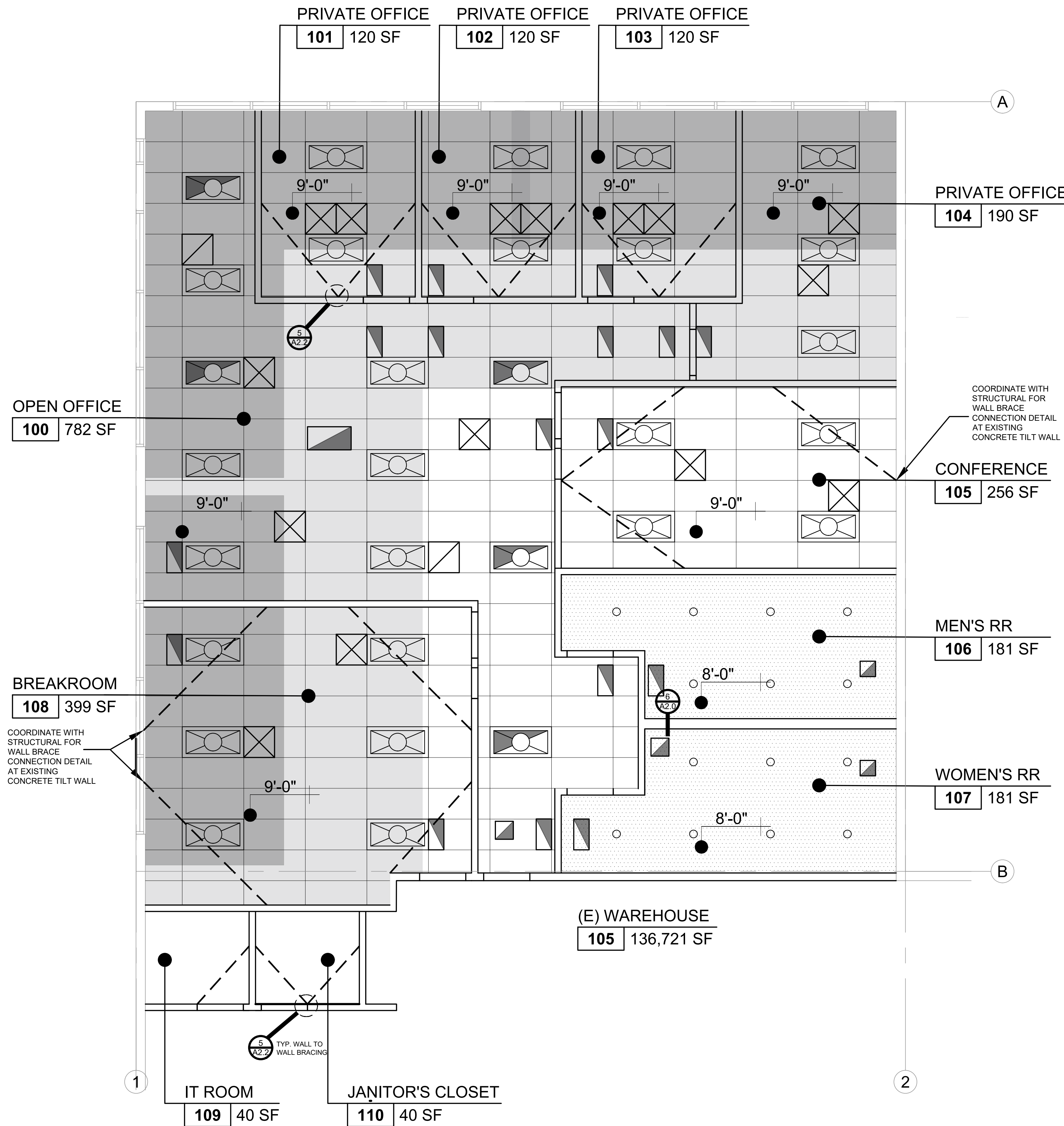
PHONE: (206) 414-7600
FACSIMILE: (206) 414-7601

DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:
SUITE 103- SCHEMATIC
OFFICE LAYOUT
OPTION 1

SHEET NUMBER:
A1.0

☒ RELEASED FOR CONSTRUCTION
☐ NOT RELEASED FOR CONSTRUCTION



CEILING PLAN NOTES

- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY ABOVE-CEILING ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION IN COMPLIANCE WITH LOCAL, STATE & FEDERAL BUILDING CODES.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEVICES & FIXTURES NOT INDICATED.
- AT RATED OR NON-RATED ASSEMBLIES, SEAL ALL GAPS, CRACKS, AND PENETRATIONS WITH SEALANT APPROPRIATE TO ASSEMBLY TYPE, LOCATION, AND VISIBILITY.
- CONCEAL ALL LIGHTING CONDUITS. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- CONTRACTOR TO VERIFY THAT CEILING GRIDS ARE SEISMICALLY RESTRAINED.
- CONTRACTOR TO VERIFY THAT ALL LIGHTING FIXTURES ARE IC-RATED (INSULATION CONTACT), UNLESS OTHERWISE REQUIRED BY BUILDING CODE, AND REQUIRED FIRE RATING OF PARTITION/FLOOR/CEILING ASSEMBLY WHERE LIGHTING FIXTURES ARE INSTALLED IS MAINTAINED.
- PROVIDE LENSES AT RECESSED FIXTURES WHERE REQUIRED BY CODE.
- AS POSSIBLE, CENTER RELOCATED LIGHTING FIXTURES WITHIN NEWLY DIVIDED SPACE(S).
- SUSPENDED CEILING SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL CODES.

CEILING AND LIGHTING PLAN LEGEND

- ACOUSTICAL CEILING GRID SYSTEM
- REFER TO PROLOGIS CUSTOMER FINISH STANDARDS
- GYPSUM CEILING
-REFER TO PROLOGIS CUSTOMER FINISH STANDARDS
- 2'X4' LED RECESSED TROFFER LIGHTING FIXTURE
- REFER TO SHEET A4.1 PROLOGIS CUSTOMER FINISH STANDARDS
- REFER TO ELECTRICAL DEFERRED SUBMITTAL
- 2'X4' LED RECESSED TROFFER LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY BACKUP
- REFER TO SHEET A4.1 PROLOGIS CUSTOMER FINISH STANDARDS
- REFER TO ELECTRICAL DEFERRED SUBMITTAL
- 6" RECESSED CAN LIGHT
- REFER TO SHEET A4.1 PROLOGIS CUSTOMER FINISH STANDARDS
- REFER TO ELECTRICAL DEFERRED SUBMITTAL
- DAYLIGHT ZONE - PRIMARY FOR SIDELIGHT; PER WSEC SECTION C405.2.4.2 AND C405.2.4.3
- DAYLIGHT ZONE - SECONDARY FOR SIDELIGHT; PER WSEC SECTION C405.2.4.2.
- HVAC SUPPLY GRILL (REF. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION)
- HVAC RETURN GRILL (REF. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION)
- HVAC RETURN GRILL (REF. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION)
- EXHAUST (REF. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION)



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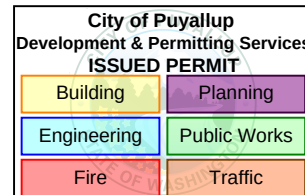
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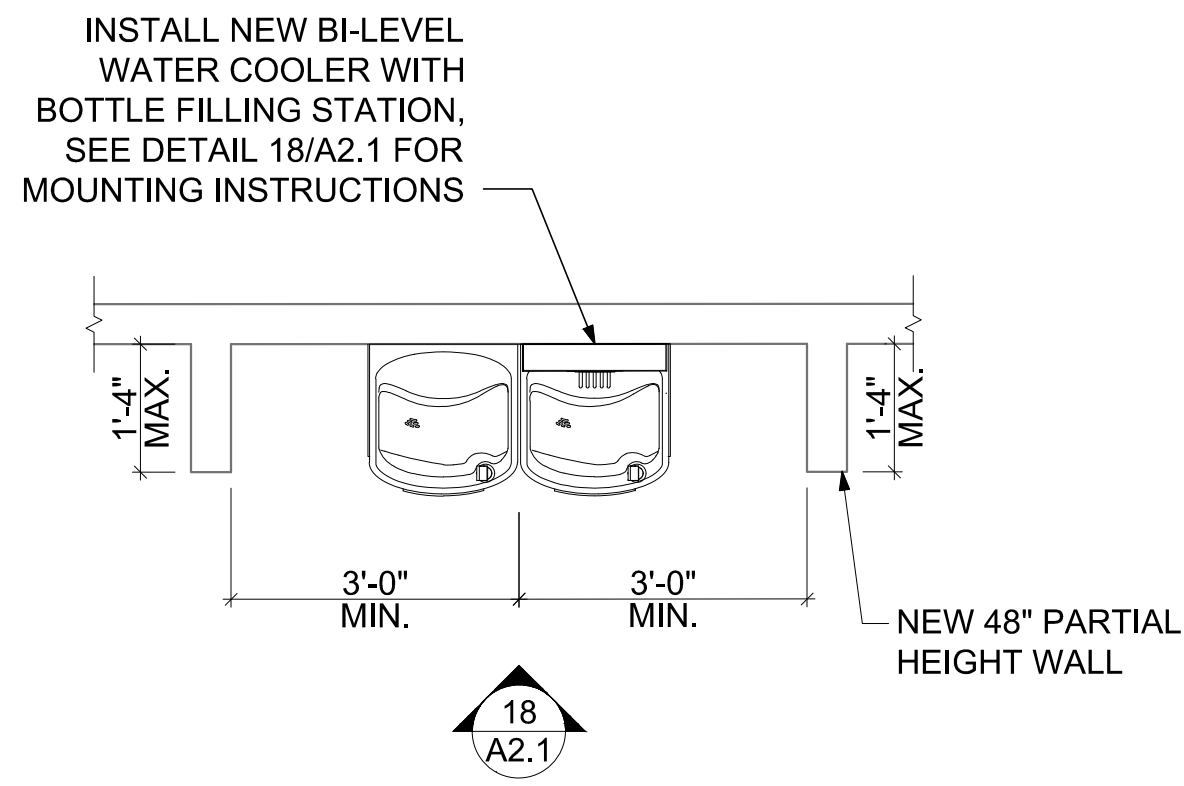
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OFFICE CEILING & LIGHTING PLAN

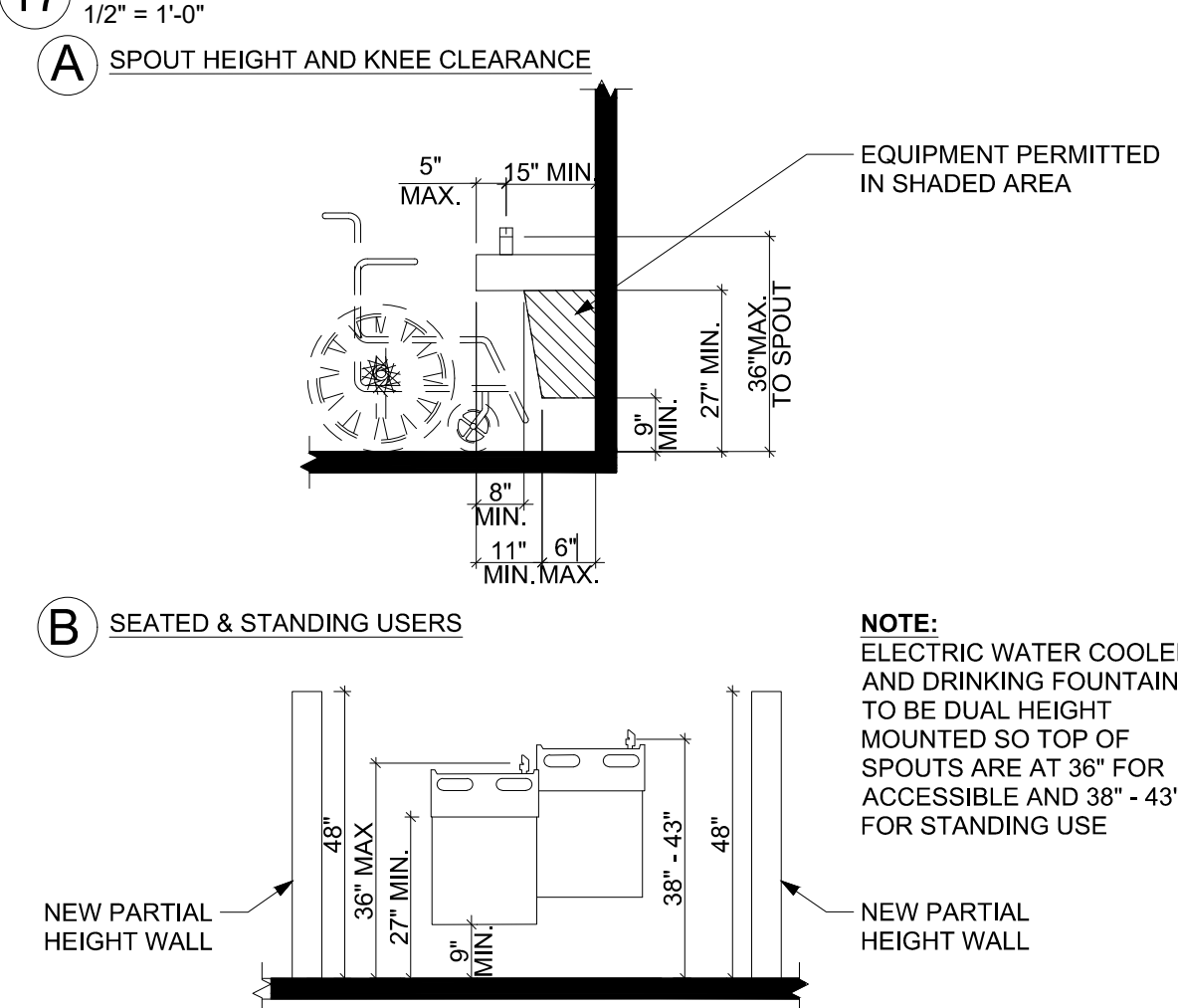
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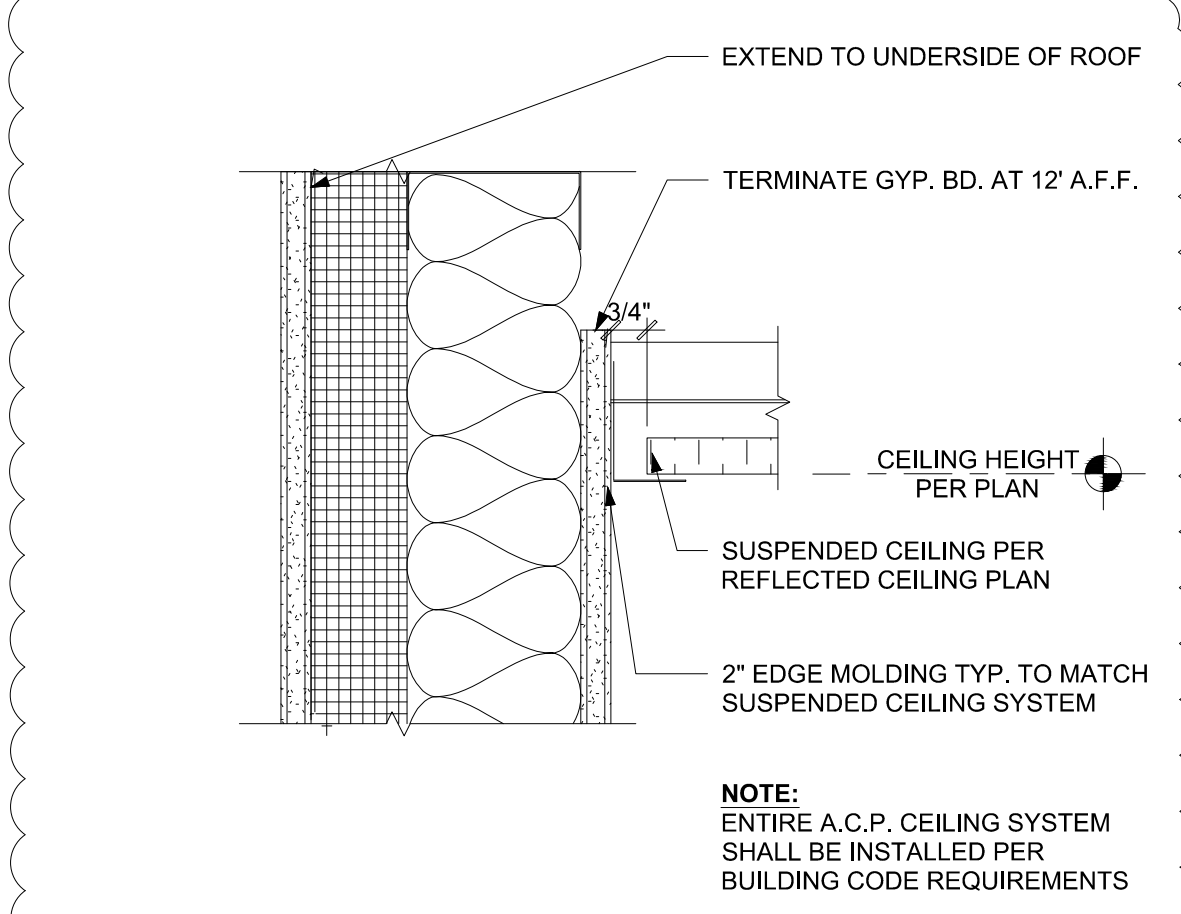
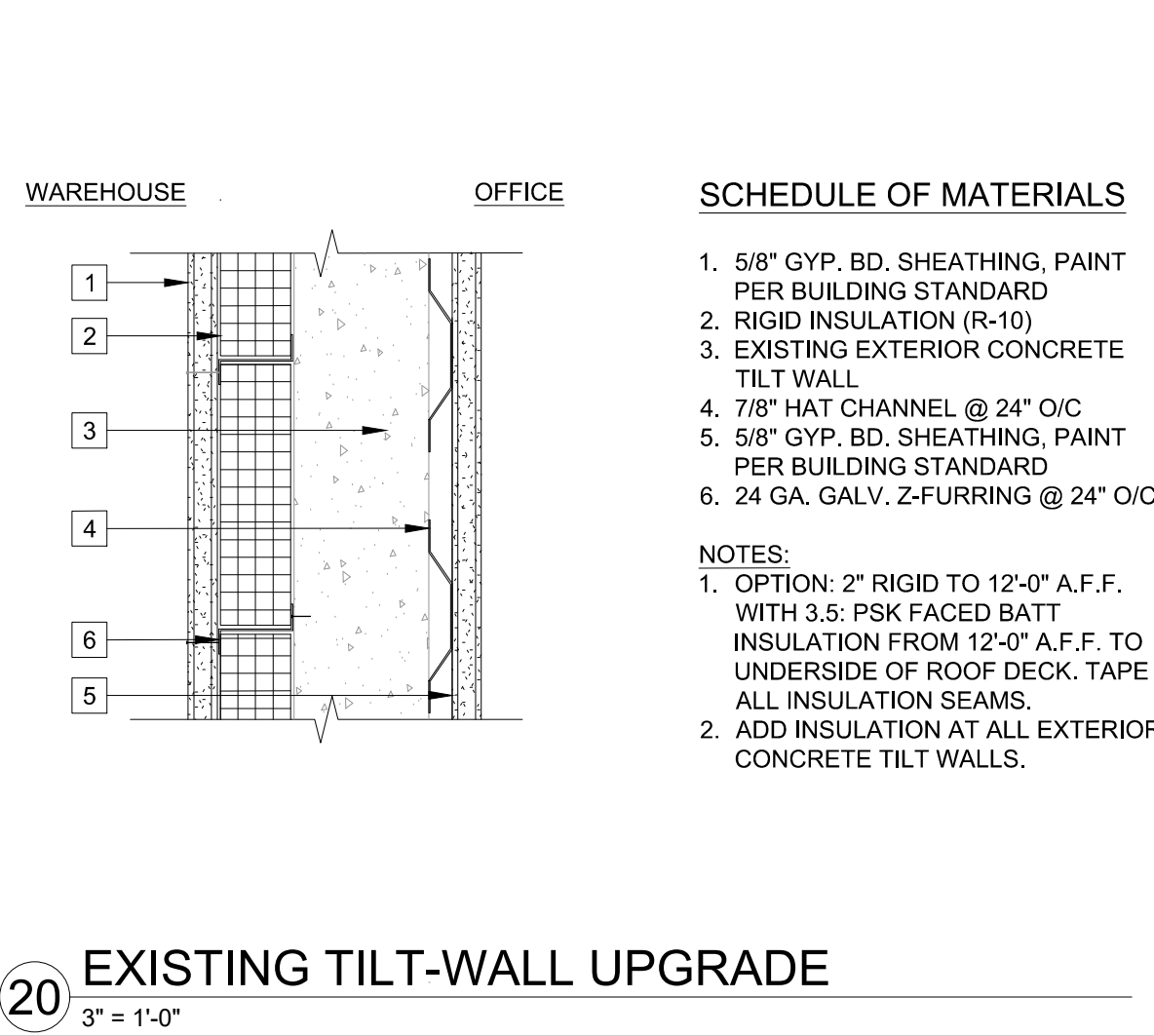
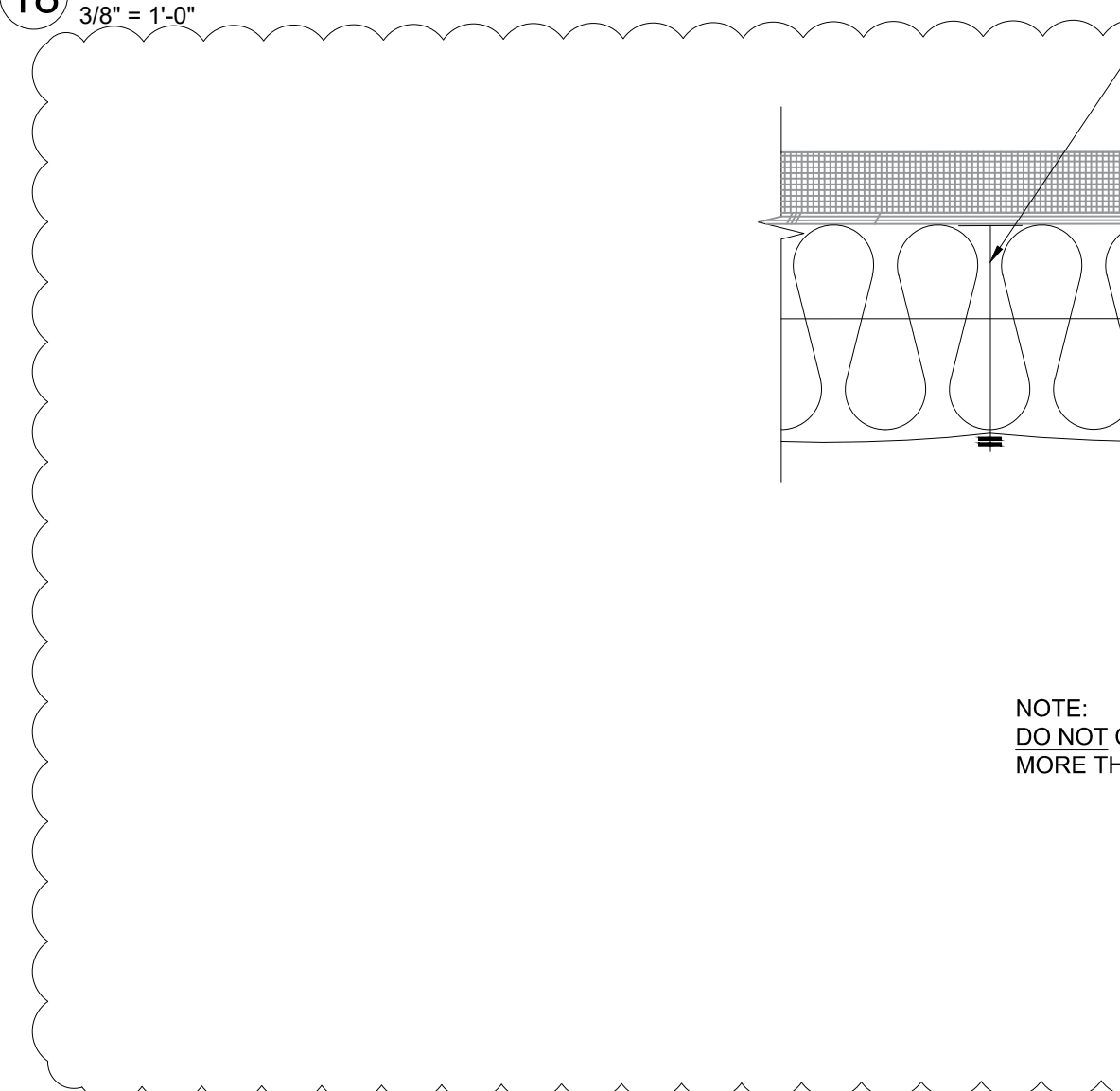
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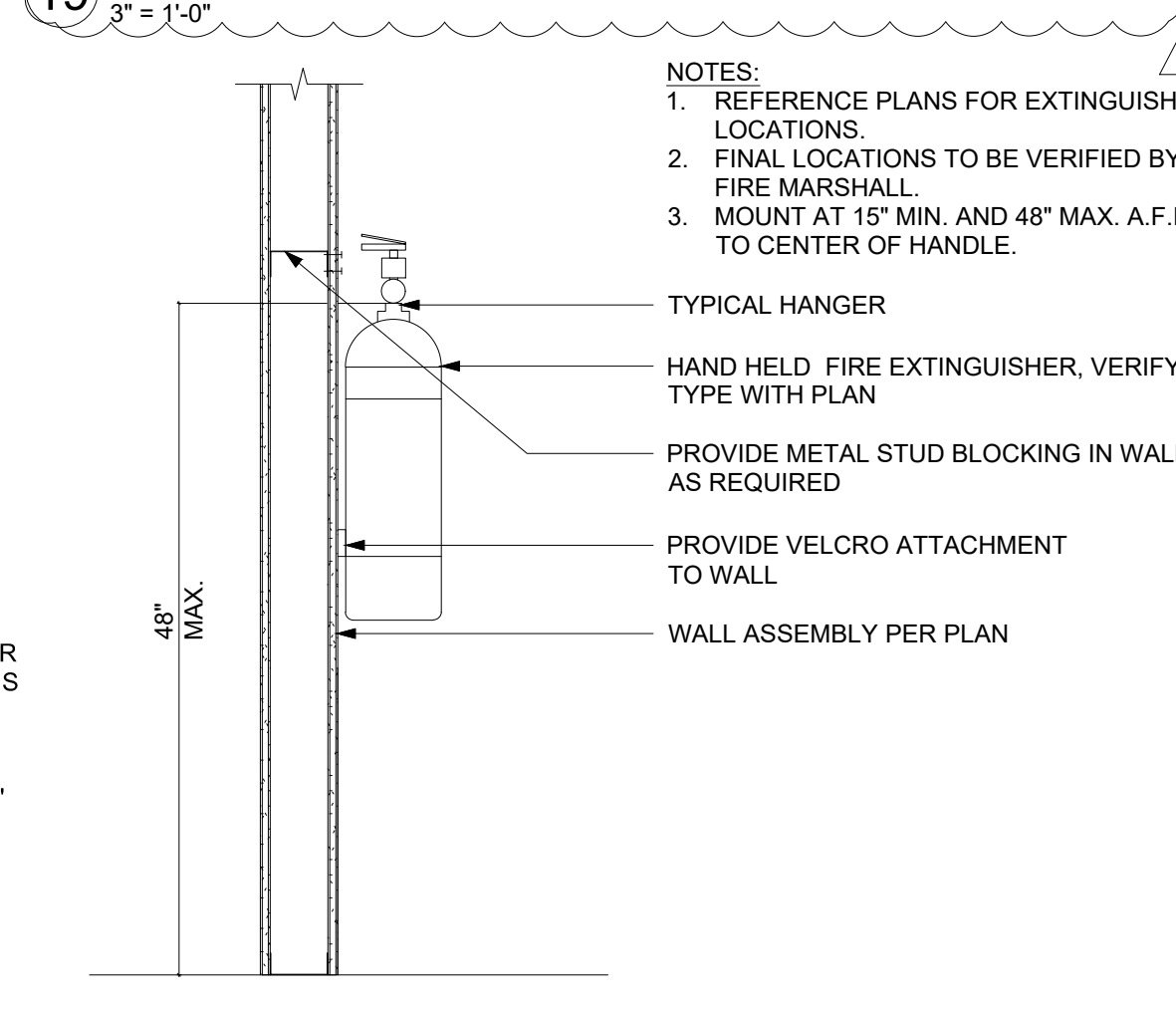
17 ENLARGED DRINKING FOUNTAIN PLAN



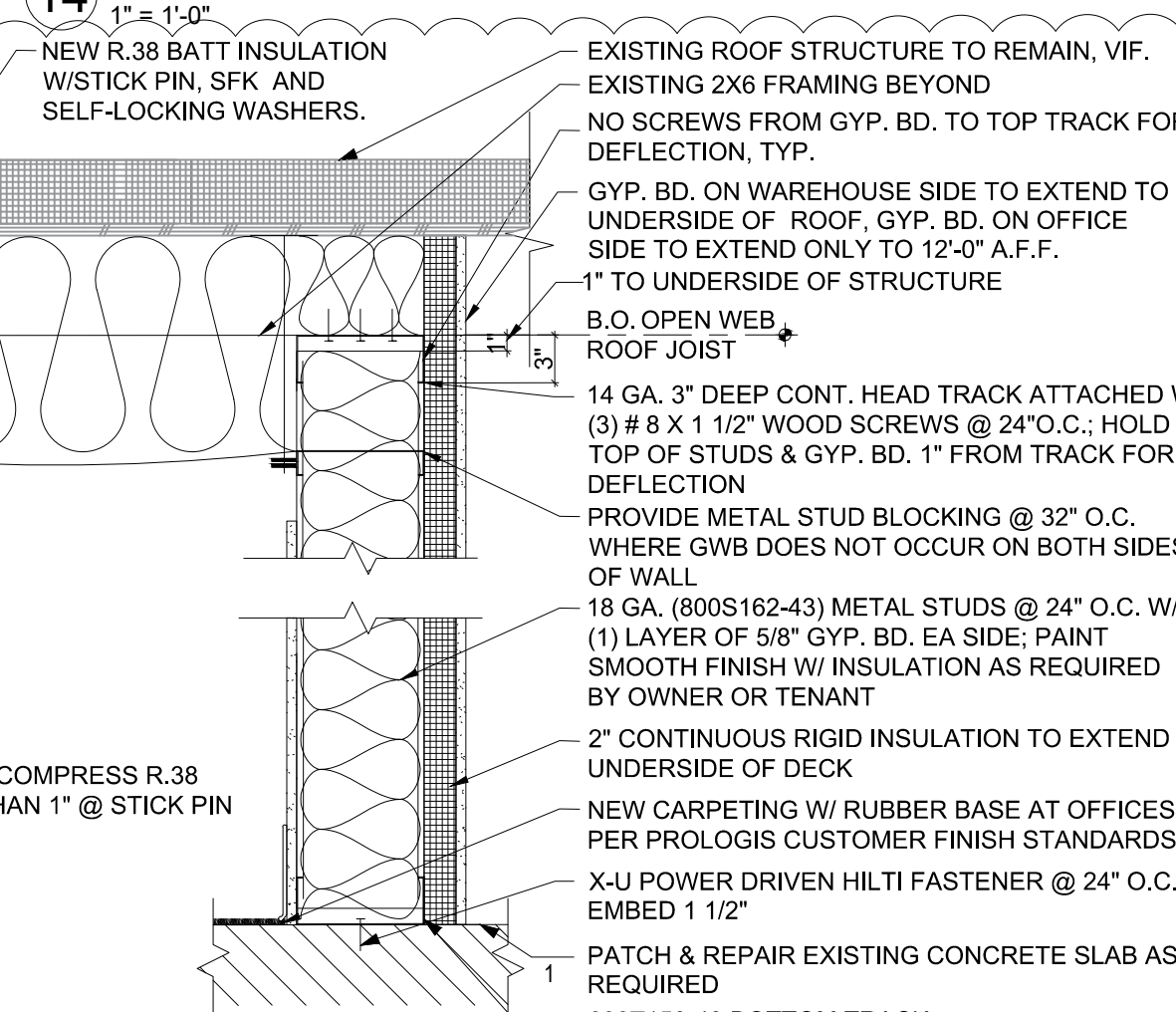
18 DRINKING FOUNTAIN MOUNTING HEIGHTS



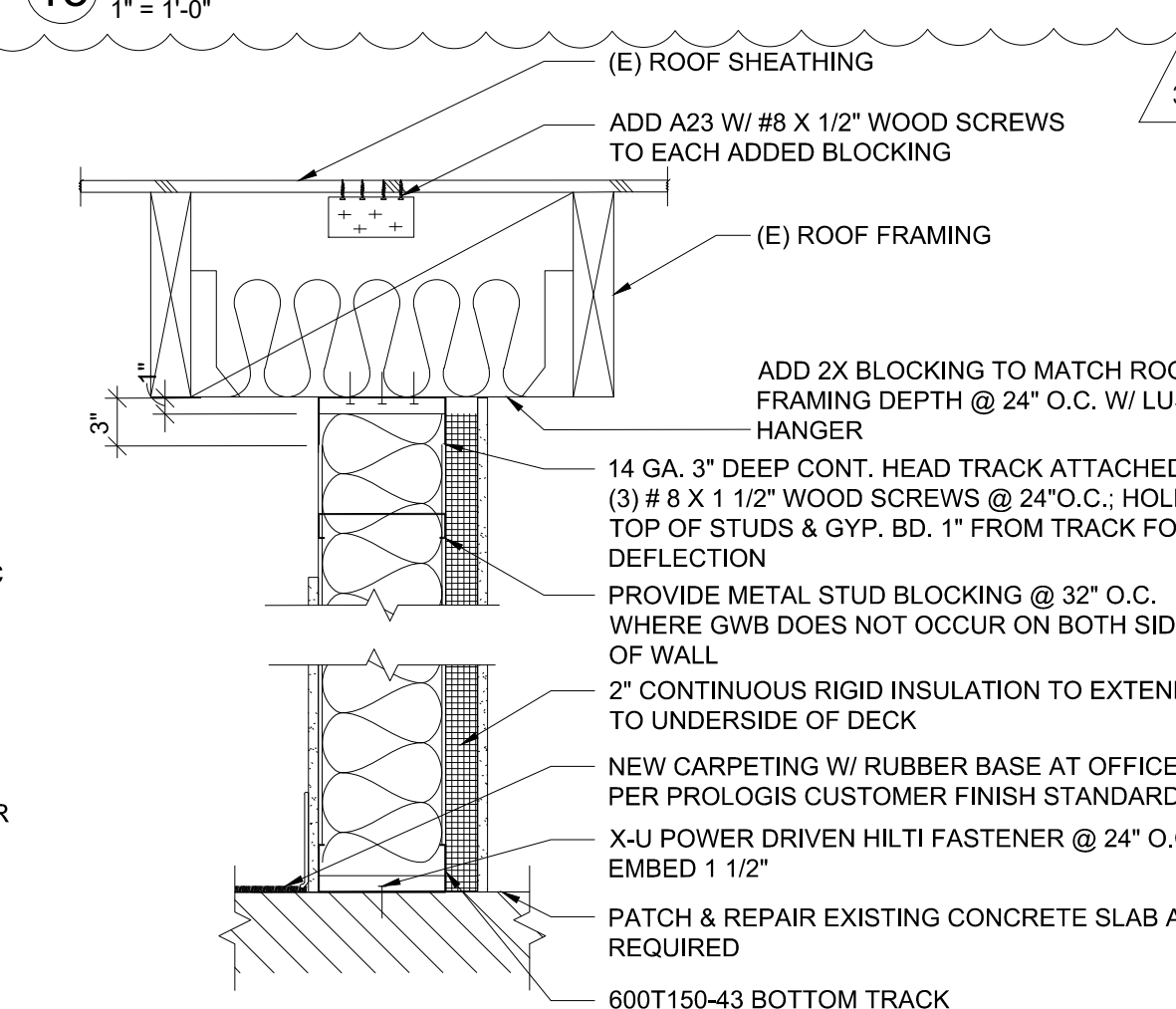
19 A.C.P. CEILING @ RIGID INSULATION WALL



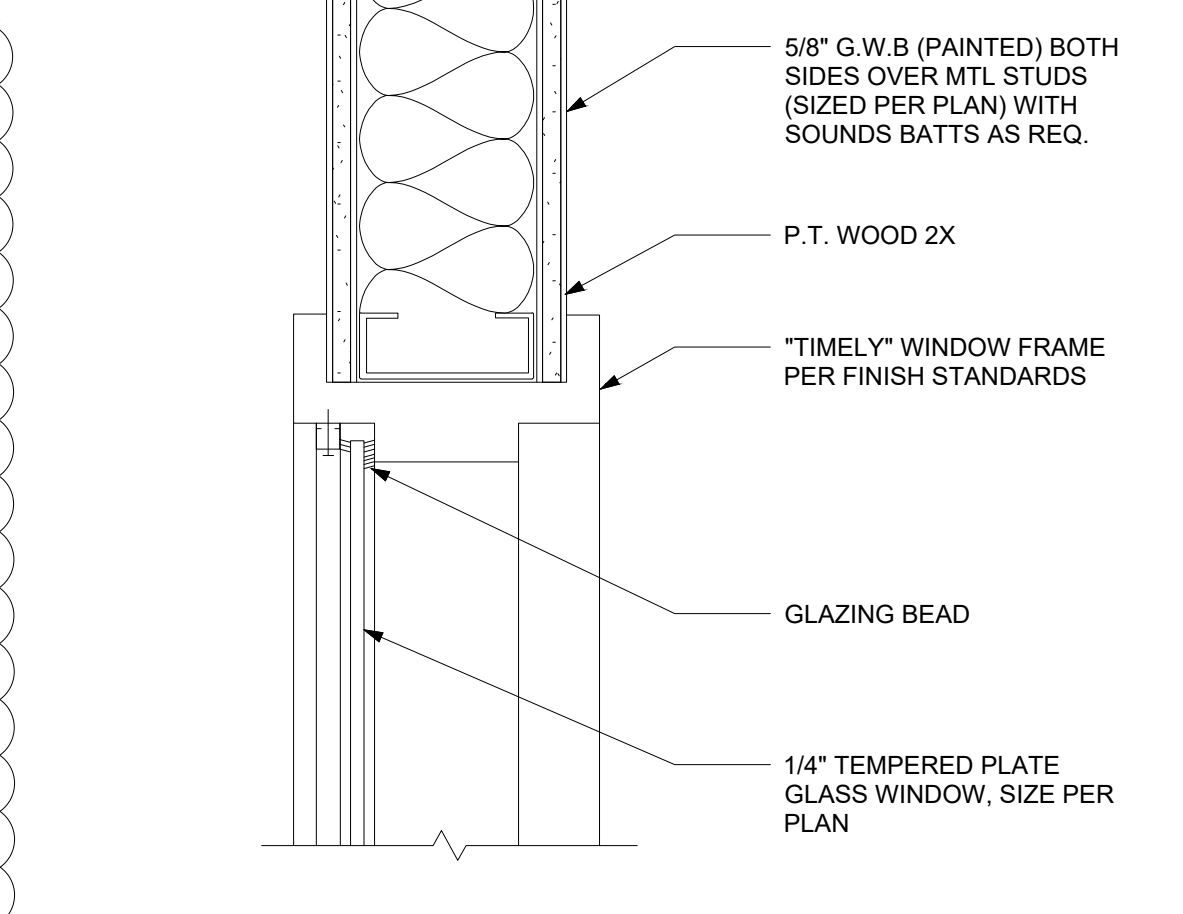
14 WALL-MOUNTED FIRE EXTINGUISHER



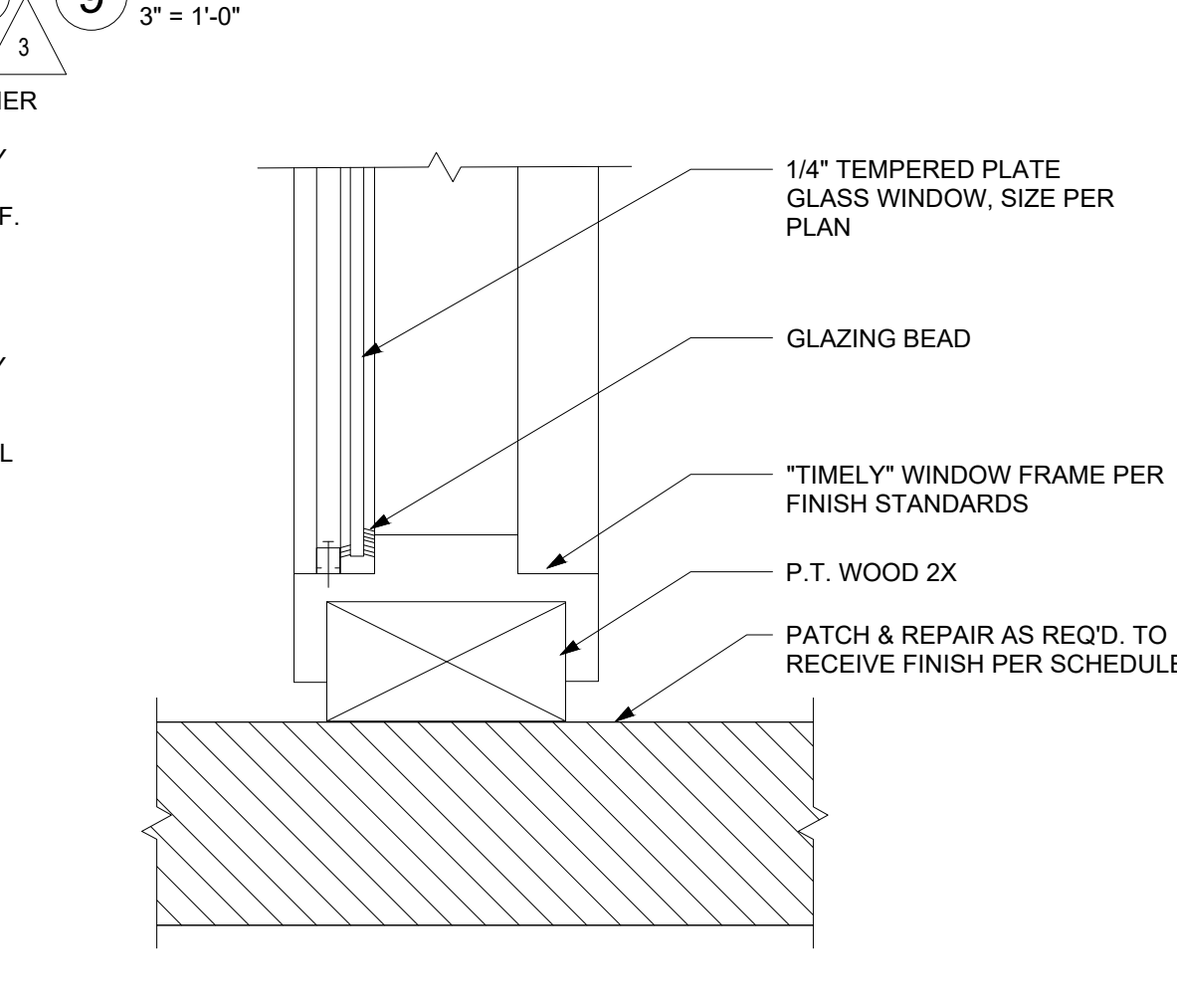
15 ENVELOPE HEAD/BASE DETAIL-ALT 1



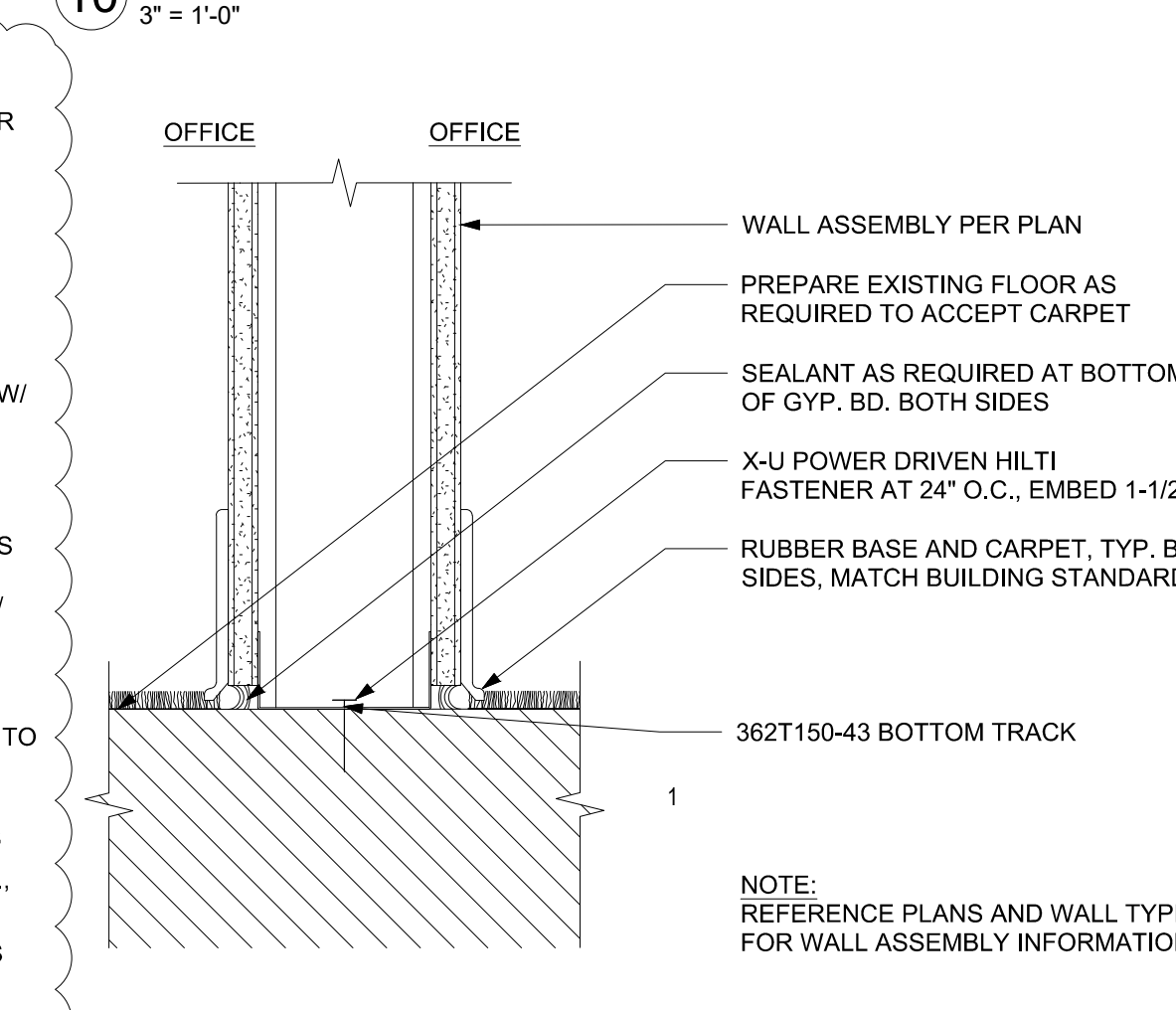
12 WALL BASE AT OFFICE/RESTROOM



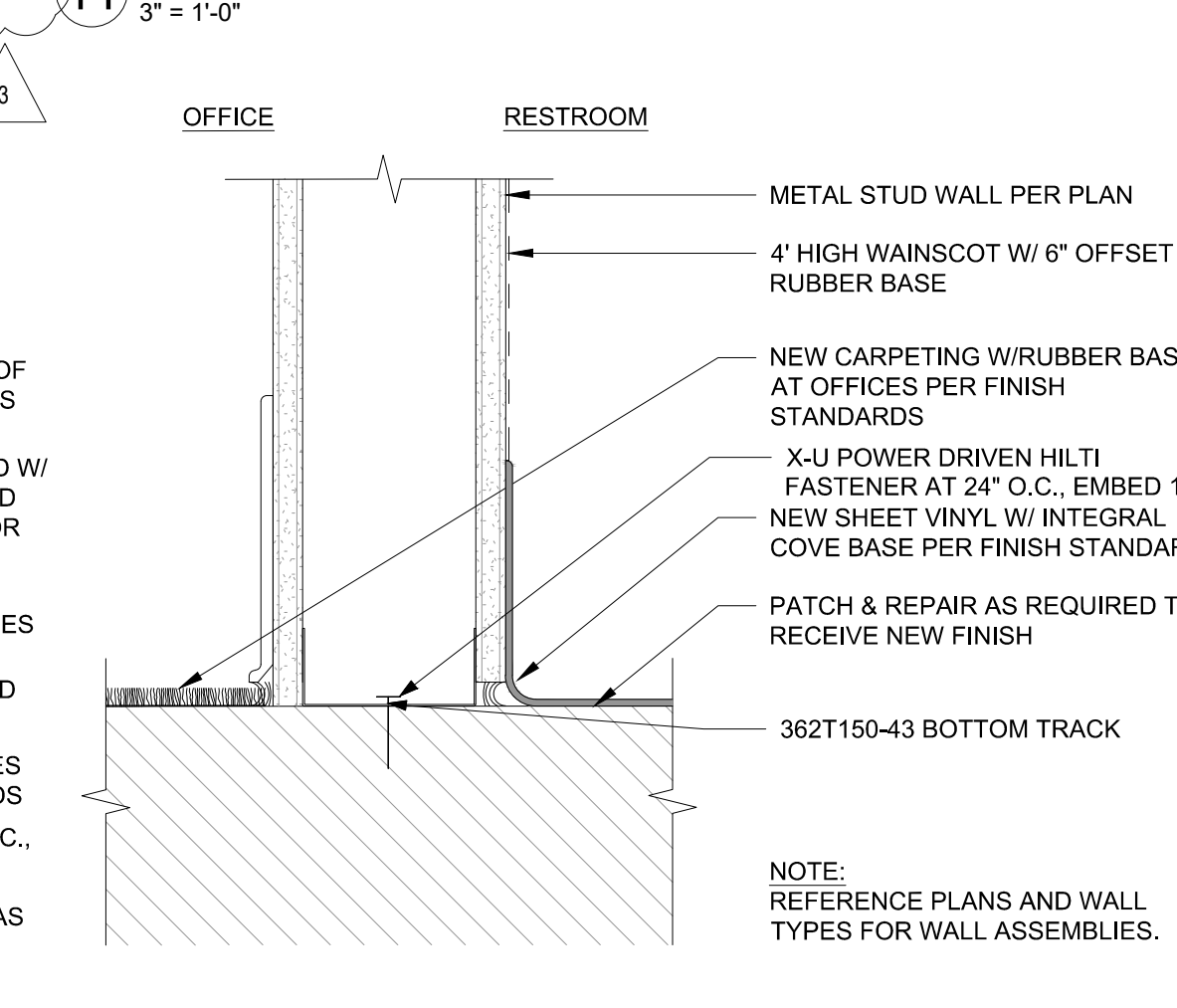
9 HEAD AT GLAZING



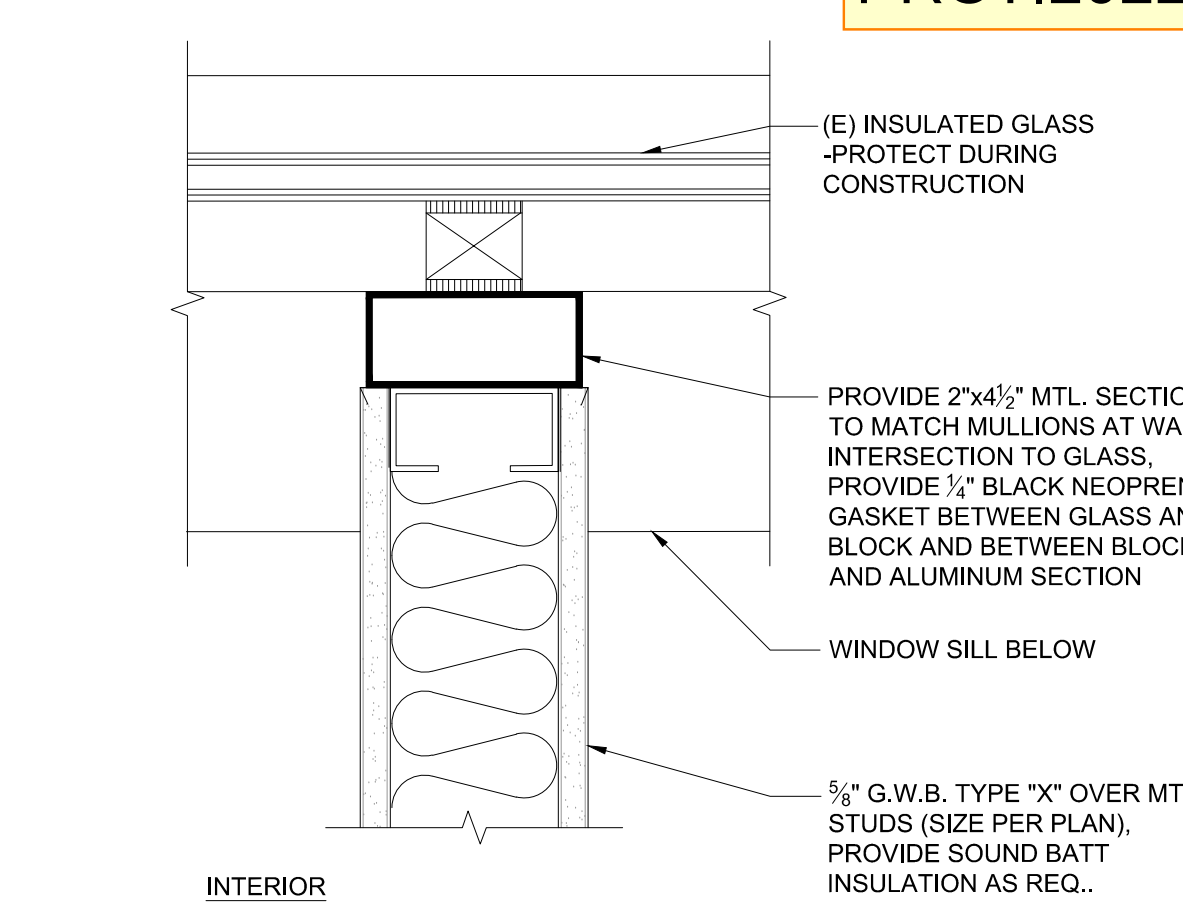
10 BASE AT GLAZING



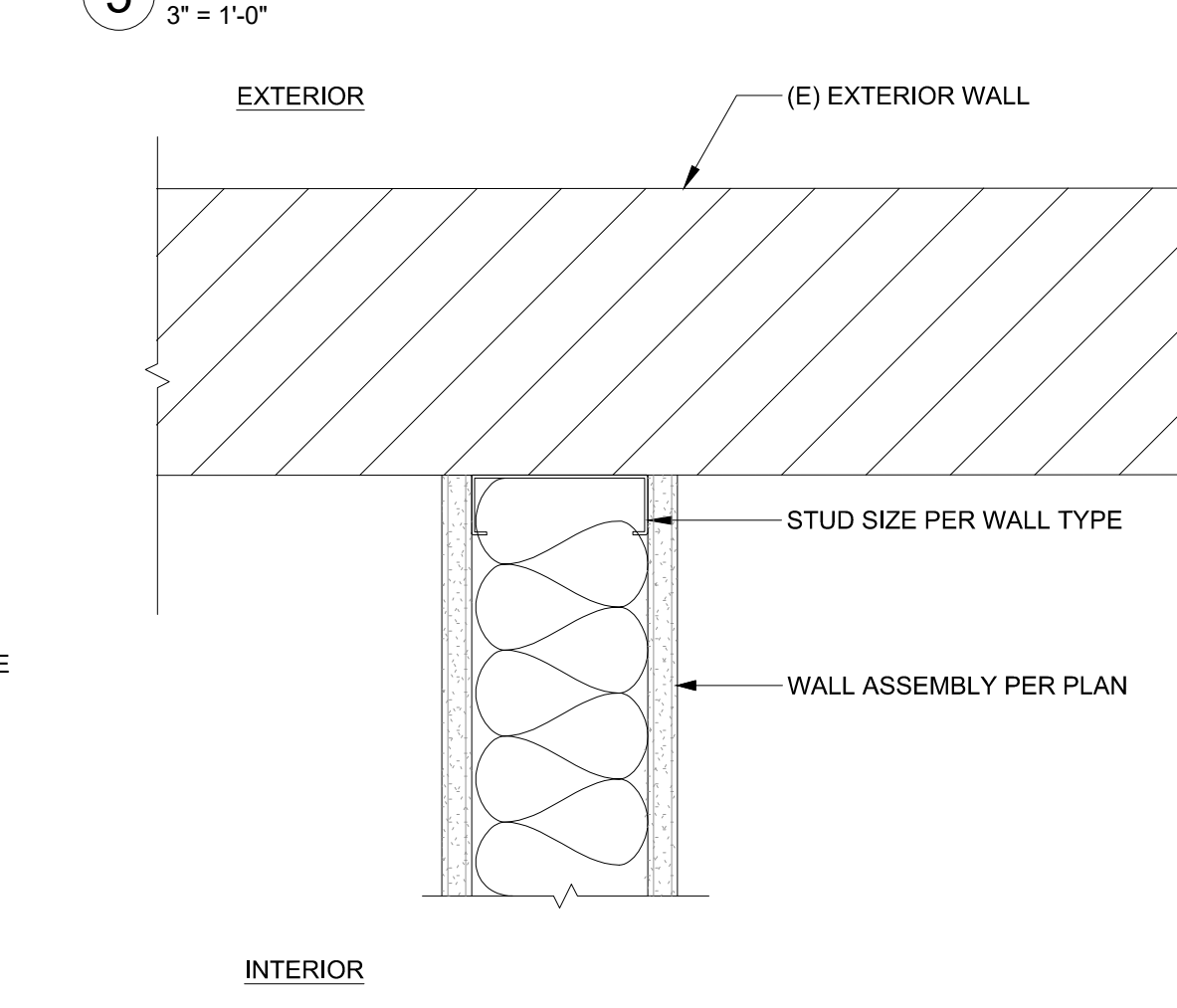
11 WALL BASE AT OFFICE



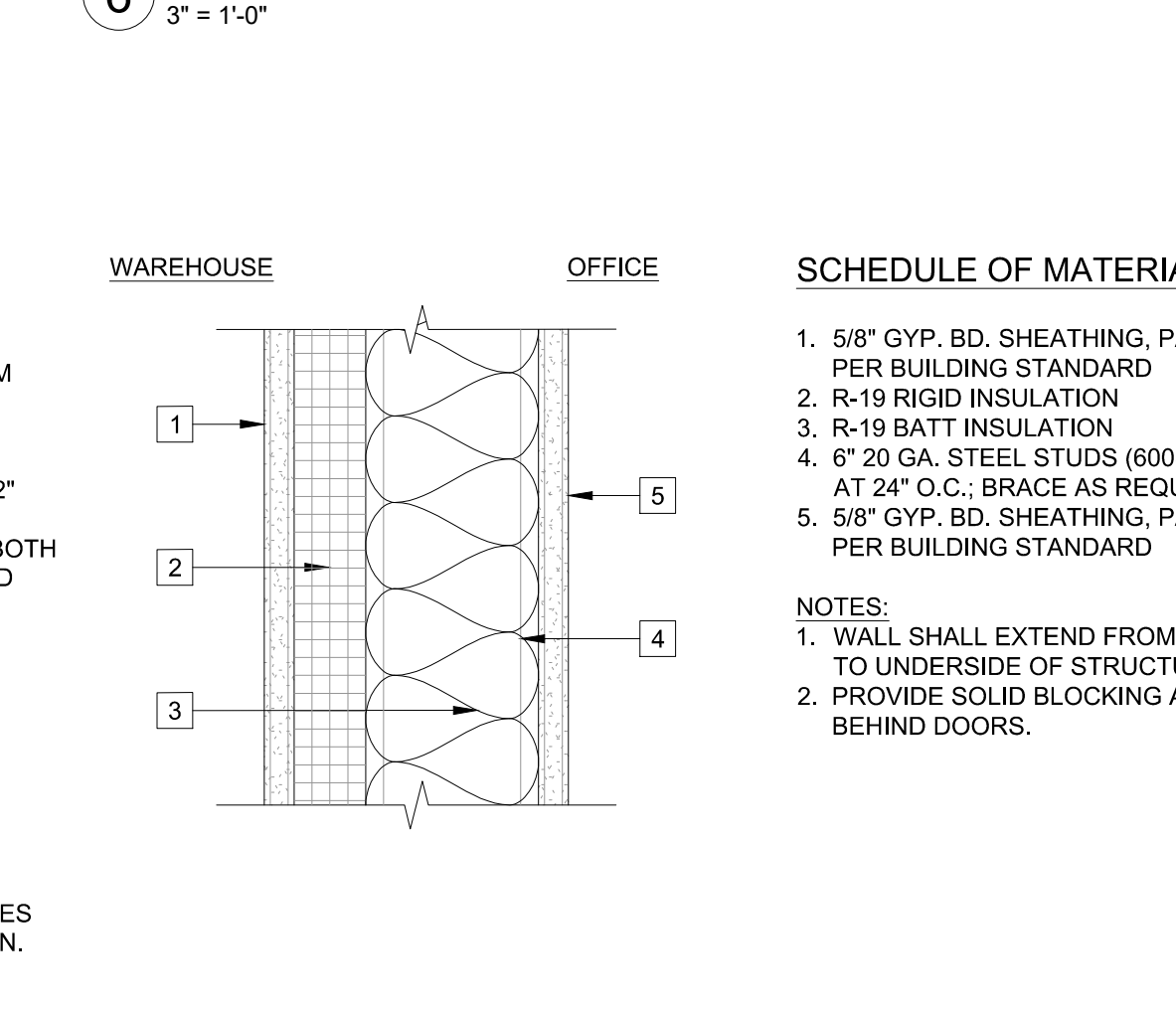
8 WALL BASE AT RESTROOM



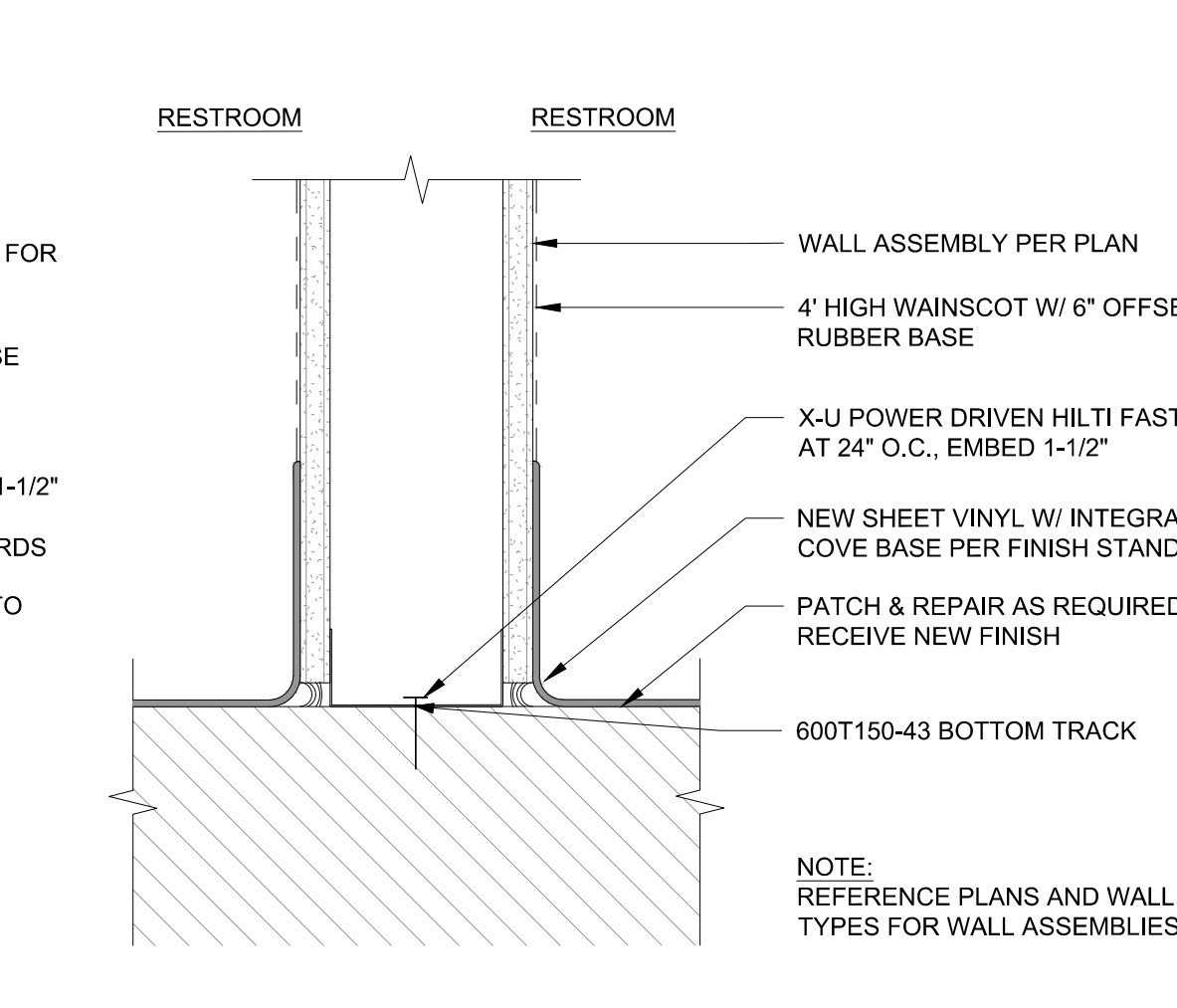
5 PLAN SECTION - PARTITION TO (E) MULLION



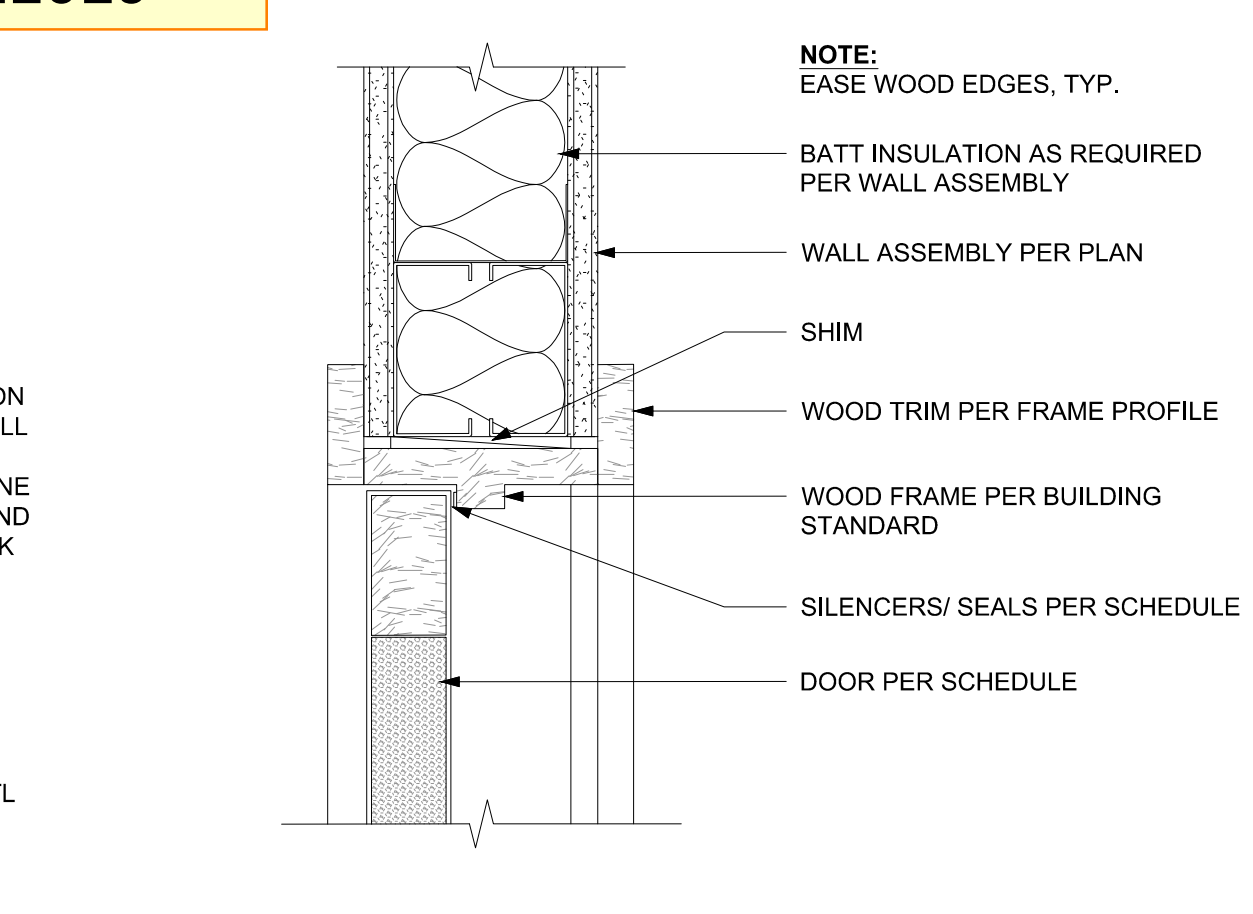
6 PLAN SECTION - PARTITION TO (E) EXT. WALL



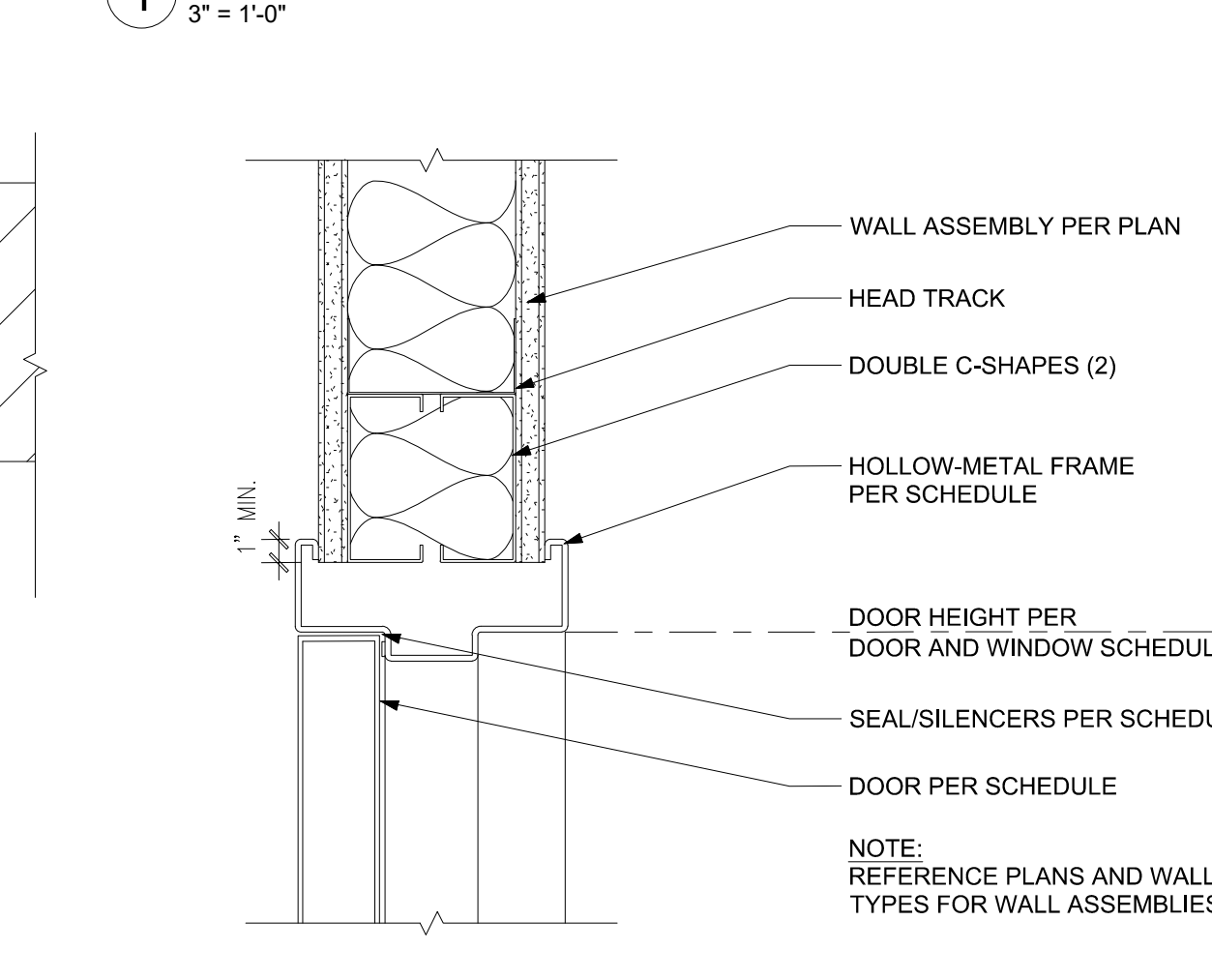
Si6-0.1-INTERIOR NON-RATED PARTITION



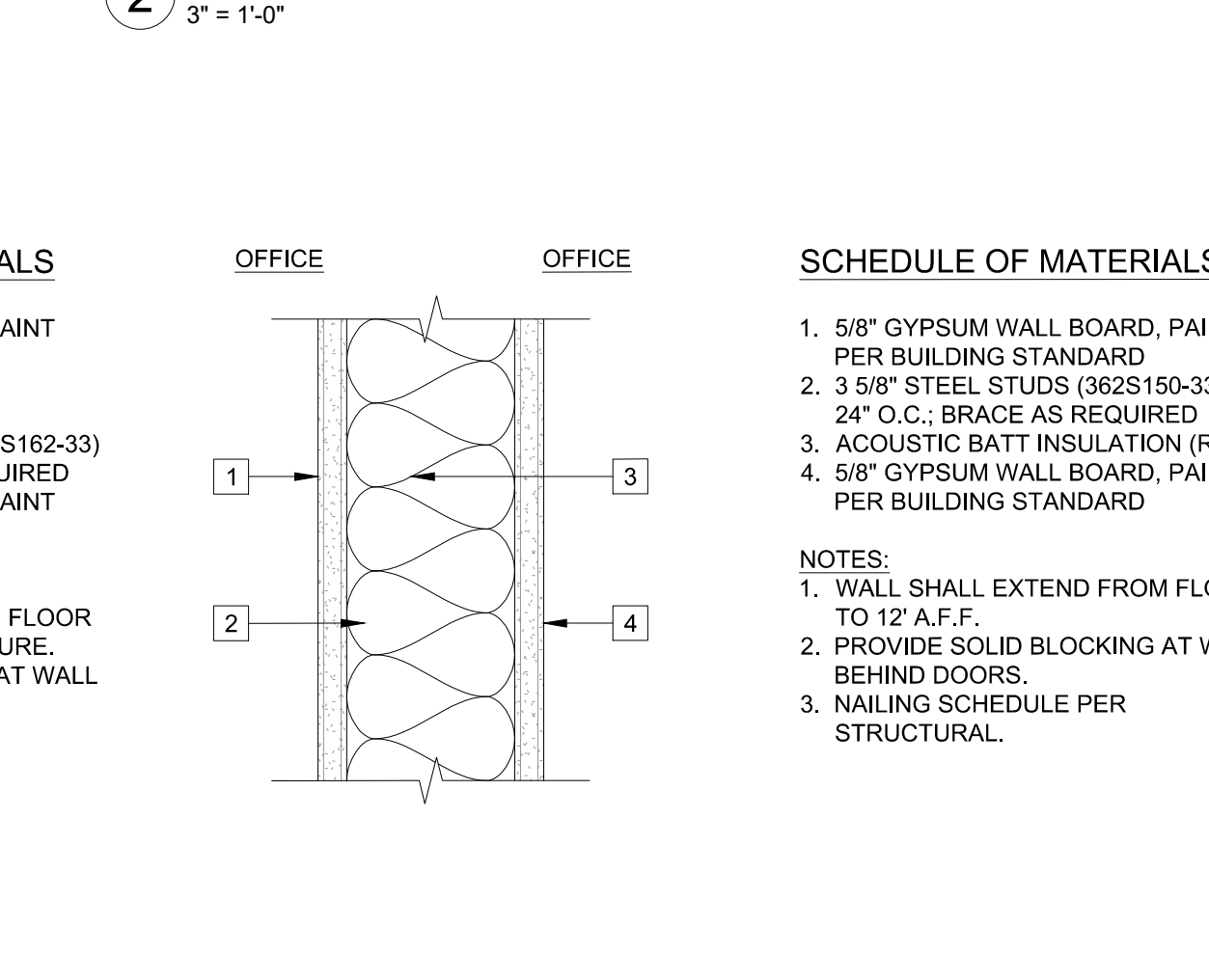
8 WALL BASE AT RESTROOM



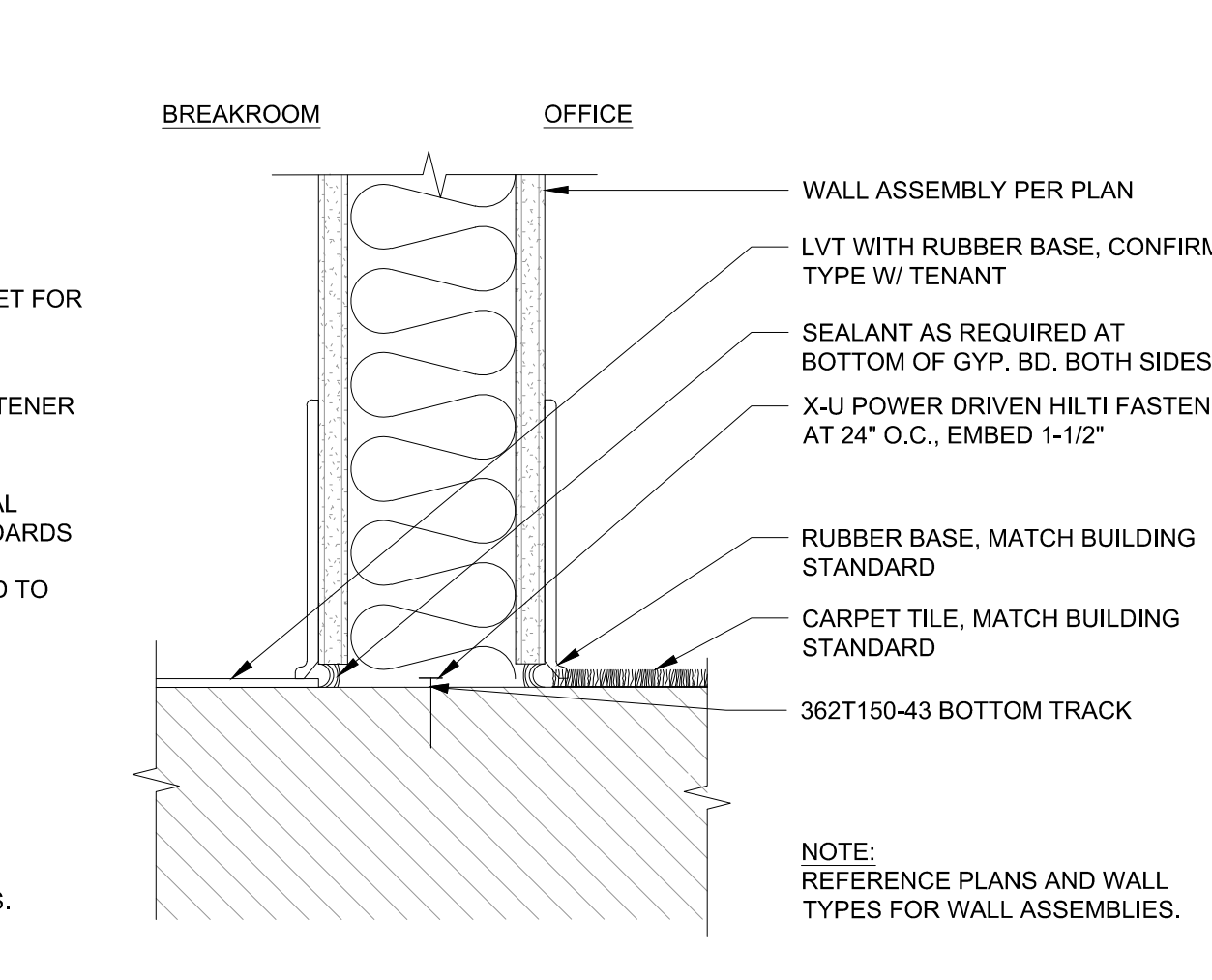
1 WOOD DOOR FRAME AT MTL. STUD HEAD



2 HM DOOR FRAME AT MTL. STUD HEAD



Si3-0.1-INTERIOR NON-RATED PARTITION



4 WALL BASE AT BREAKROOM/OFFICE

PRCTI20221019

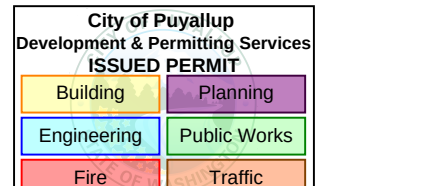
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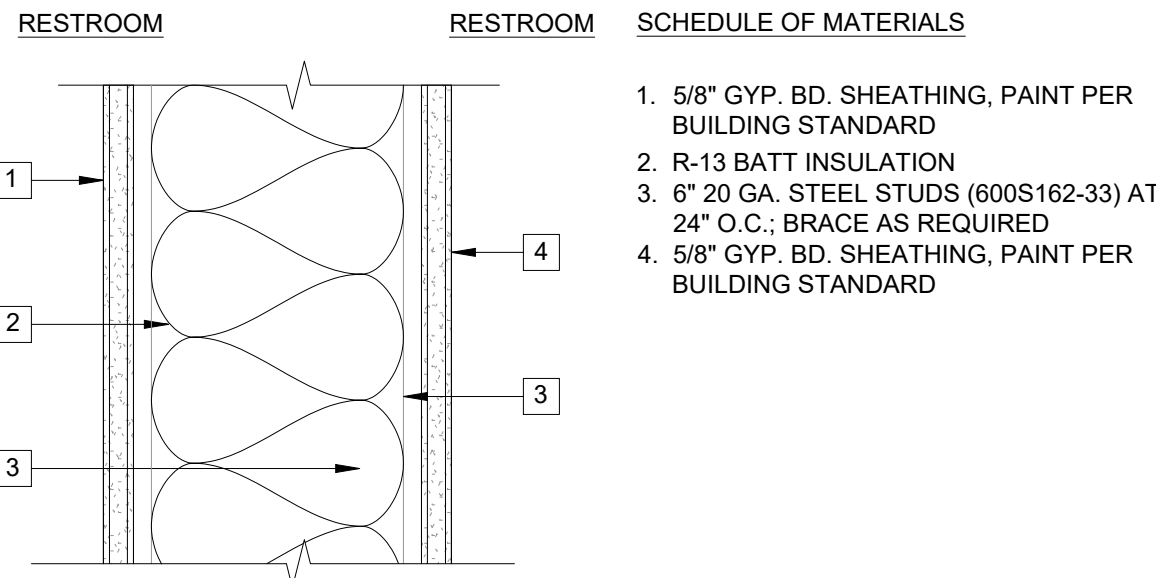
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DETAILS

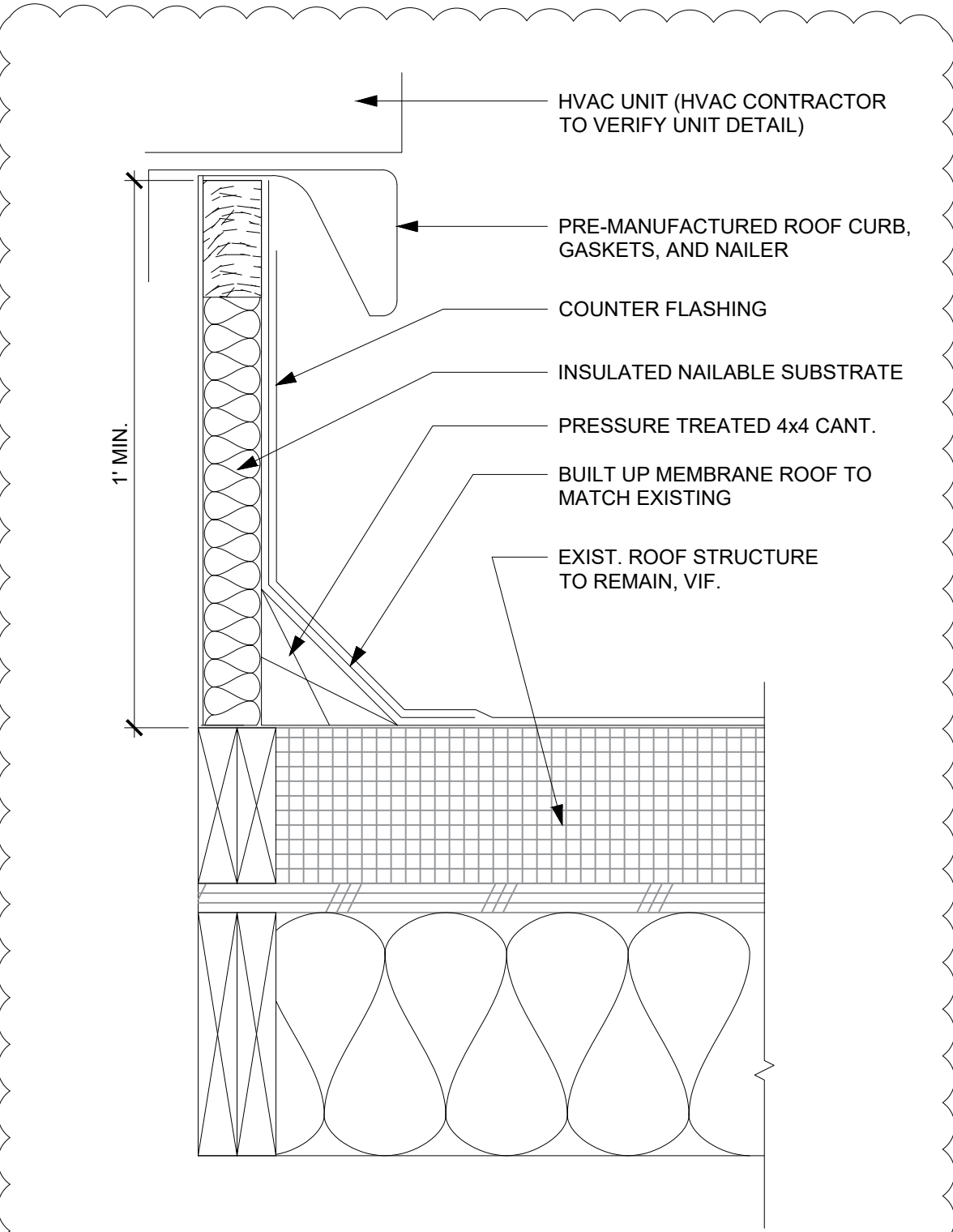
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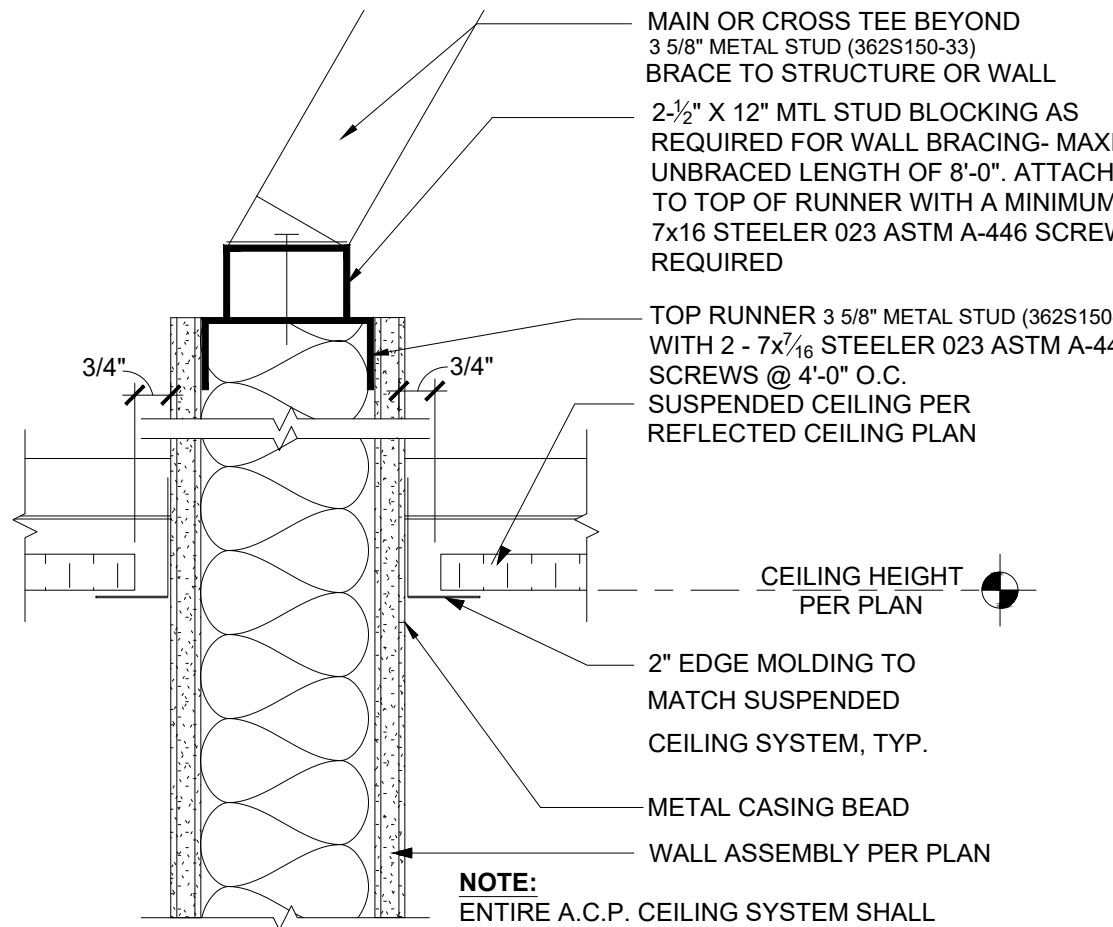


Si6-0.2-INTERIOR NON-RATED PARTITION



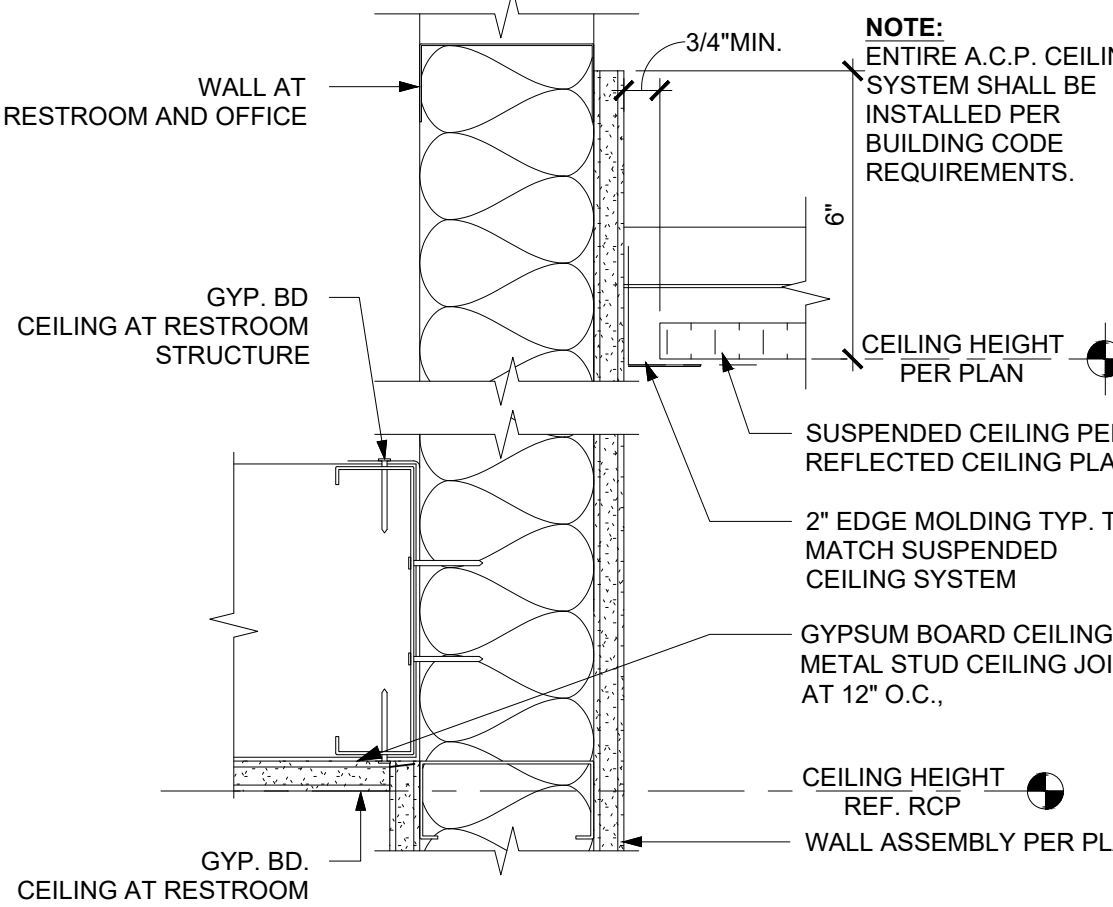
10 ROOF MOUNTED CURB DETAIL

3" = 1'-0"



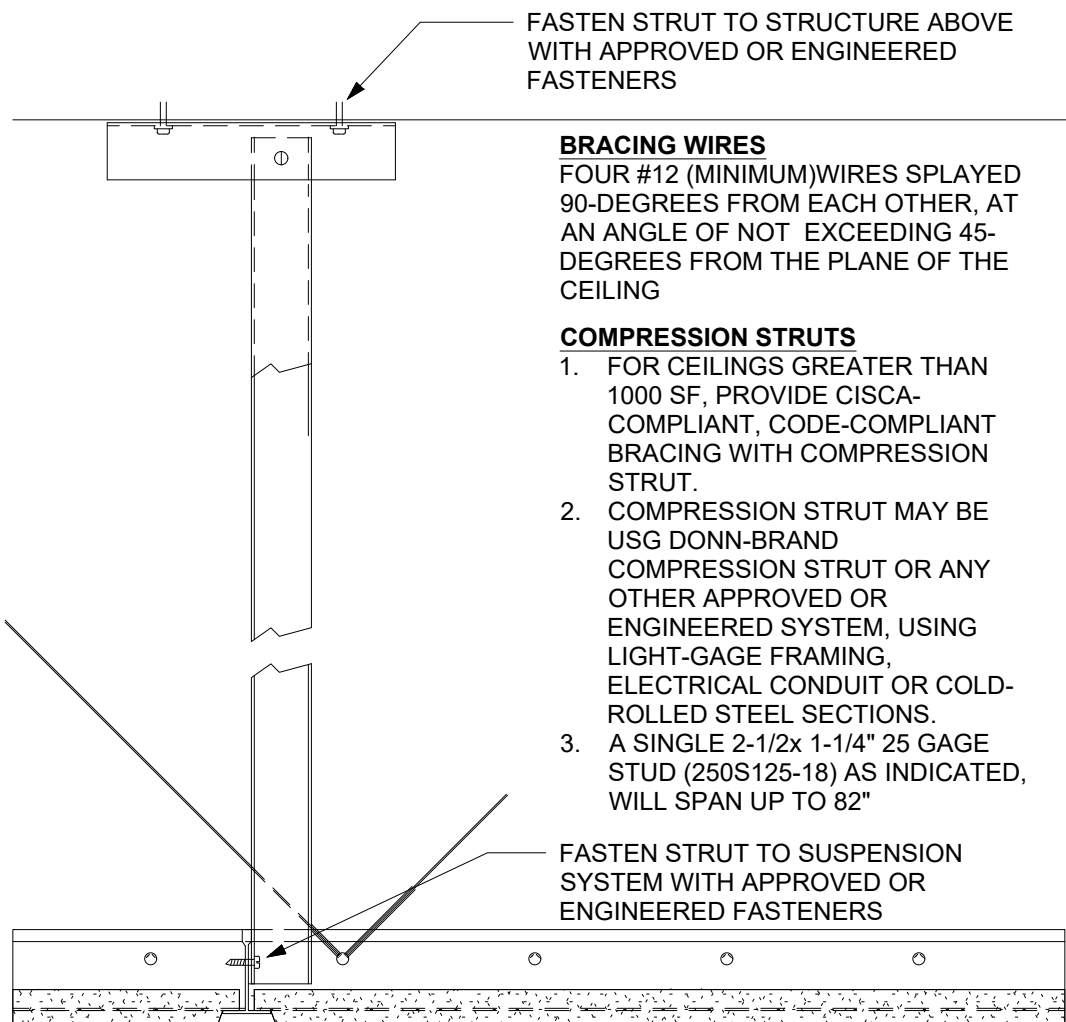
5 TYP. BRACING DETAIL

3" = 1'-0"



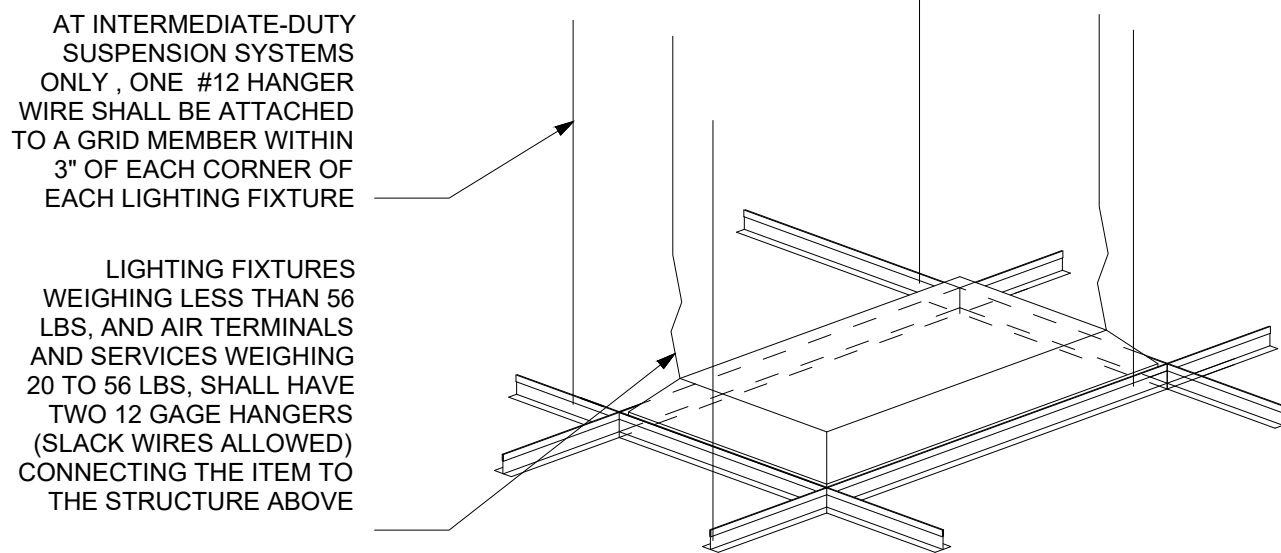
6 A.C.P. CEILING @ EXISTING WALL/CEILING

3" = 1'-0"



CEILING-MOUNTED LIGHTING, AND CEILING-MOUNTED AIR TERMINALS AND SERVICES:

1. ALL CEILING-MOUNTED LIGHTING FIXTURES, AND CEILING-MOUNTED AIR TERMINALS AND SERVICES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM.
2. PENDANT-HUNG LIGHTING FIXTURES, LIGHTING FIXTURES WEIGHING 56 LBS OR MORE, AND AIR TERMINALS AND SERVICES WEIGHING 56 LBS OR MORE SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.
3. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER TO THE SUPPORT ABOVE SUCH THAT THE WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS. THE WIRE MUST BE WRAPPED AROUND ITSELF IN A MIN. OF THREE FULL TURNS WITHIN A 3" LENGTH. CONNECTION DEVICES TO THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN A 90-LB ALLOWABLE LOAD.



NOTE:

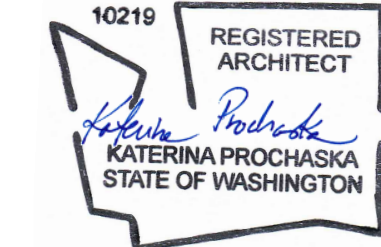
1. FURNISH HEAVY-DUTY CEILING GRID (SUSPENSION SYSTEM) IN ACCORDANCE WITH ASTM C-636.
2. INTERMEDIATE-DUTY SYSTEMS MAY BE PROVIDED WHEN REMODELING REQUIRES "MATCHING EXISTING" AND THE EXISTING SYSTEM IS INTERMEDIATE DUTY.
3. INSTALL CEILING GRID IN ACCORDANCE WITH ASTM C-636, INCLUDING PROVISIONS ON WIRE HANGERS, ATTACHMENT OF WIRE HANGERS, SPACING OF WIRE HANGERS, CARRYING CHANNELS, SPLICES, ASSEMBLY DEVICES, AND CEILING FIXTURES.
4. INSTALL CEILING-MOUNTED ITEMS AND FIXTURES, INCLUDING LIGHT FIXTURES, MECHANICAL SERVICES, CABLE TRAYS, CONDUIT AND SIMILAR IN ACCORDANCE WITH CISCA STANDARDS FOR SEISMIC ZONES 4. THIS MAY INCLUDE INDEPENDENT SUPPORT FOR SOME CEILING-MOUNTED ITEMS.
5. PROVIDE CISCA-COMPLIANT SEISMIC BRACING AND COMPRESSION STRUTS ONLY IN CEILINGS OF 1,000 SF OR GREATER (REF: ASCE 7-15.5.6.2.2 SECTION C).
6. IN CEILINGS WITHOUT LATERAL BRACING, PROVIDE FLEXIBLE CONNECTION FROM SPRINKLER BRANCH LINES TO SPRINKLER HEADS, IN LIEU OF OVERSIZED SPRINKLER OPENINGS IN CEILING.
7. IN CEILINGS GREATER THAN 2,500 SF, PROVIDE 2" WIDE MINIMUM CEILING JOINT AS INDICATED AND DETAILED ON CEILING PLANS.

8 TYPICAL ACP CEILING SYSTEM

3" = 1'-0"

CEILING DETAIL NOTES

- A. INTERNATIONAL BUILDING CODE (IBC) SECTION 808.1 AND 1613.1
- B. ASTM C636 AND ASTM C636 (REFERENCED IN IBC 808.1). ASTM IS AN ACRONYM FOR AMERICAN SOCIETY OF CIVIL ENGINEERS
- C. ASCE-7-05 SECTION 13.5.6.2.2 (REFERENCED IN IBC 1613.1). ASCE IS AN ACRONYM FOR AMERICAN SOCIETY OF CIVIL ENGINEERS
- D. CISCA RECOMMENDATIONS FOR SEISMIC ZONES 3-4 (REFERENCED IN ASCE-7-05 SECTION 13.5.6.2.2). CISCA IS AN ACRONYM FOR CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION.
- E. IBC 102.1 STATES: WHERE IN ANY SPECIFIC CASE DIFFERENT SECTIONS OF THIS CODE SPECIFY DIFFERENT MATERIALS, METHODS OF CONSTRUCTION OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS A CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL BE APPLICABLE.
- F. PARTIAL LISTING OF REQUIREMENTS FOR SUSPENDED CEILINGS:
 1. ONLY A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED. ASCE-7-05 SECTION 13.5.6.2.2, ITEM A
 2. WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE (WALL ANGLE) SHALL BE NOT LESS THAN 2.0 INCHES. ASCE SECTION 13.5.6.2.2 ITEM B
 3. ON TWO ADJACENT SIDES, THE GRID SHALL BE ATTACHED TO THE WALL ANGLE. POP RIVETS ARE ACCEPTABLE. ON THE OTHER TWO SIDES, THERE SHALL BE A 3/4" CLEARANCE BETWEEN THE ENDS OF THE GRID AND THE WALL ASCE-7-05 SECTION 13.5.6.2.2, ITEM B
 4. ON THE OTHER TWO SIDES, THERE SHALL BE A 3/4" CLEARANCE BETWEEN THE ENDS OF THE GRID AND THE WALL. ASCE-7-05 SECTION 13.5.6.2.2, ITEM B
 5. STABILIZER BARS ARE REQUIRED TO PREVENT THE SPREAD OF THE MAIN BEAMS AND/OR CROSS TEES. CISCA GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT HUNG SUSPENDED CEILING ASSEMBLIES, SEISMIC ZONES 3 & 4, MAY 2004, INSTALLATION SECTION, ITEM 4
 6. PERIMETER SUPPORT (TAIL) WIRES ARE REQUIRED WITHIN 8" OF THE WALL FOR ALL EDGES. CISCA GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT HUNG SUSPENDED CEILING ASSEMBLIES, SEISMIC ZONES 3 & 4, MAY 2004, INSTALLATION SECTION, ITEM 2
 7. VERTICAL HANGERS SHALL BE NO. 12 GA. WIRE SPACED AT 48" O.C. OR NO. 10 GA. SPACED AT 60" O.C. ALONG EACH MAIN RUNNER. 3 WIRE TURNED REQUIRED. WITHIN 1/8 OUT OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED.
 8. LATERAL BRACING IS REQUIRED: SPLAY WIRE PODS AT 12" MAX. O.C. AND 72" MAX FROM WALLS. A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. CISCA GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT HUNG SUSPENDED CEILING ASSEMBLIES, SEISMIC ZONES 3 & 4, MAY 2004, INSTALLATION SECTION ITEM 3.
 9. CEILINGS OVER 2500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS THAT BREAK THE CEILING UP INTO AREAS NOT EXCEEDING 2500 SF. ASCE-7-05 SECTION 13.5.6.2.2, ITEM D
 10. FOR CEILINGS WITHOUT RIGID BRACING, SPRINKLER HEAD AND OTHER PROJECTIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. OR, SPRINKLER HEAD EXTENSION TO HAVE A SWING JOINT THAT CAN ACCOMMODATE 1" OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS. ASCE-7-05 SECTION 13.5.6.2.2, ITEM E.
 11. CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING. ASCE-7-05 SECTION 13.5.6.2.2, ITEM F
 12. CABLE TRAYS AND ELECTRICAL CONDUIT SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING. ASCE-7-05 SECTION 13.5.6.2.2, ITEM G.



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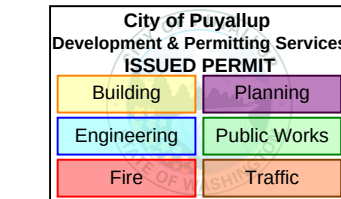
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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:

SUSPENDED CEILING
SYSTEM DETAILS

SHEET NUMBER:

A2.2

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CUSTOMER FINISH STANDARDS	
	NORTHWEST
DIVISION 1	GENERAL REQUIREMENTS
1.1	CODES: All construction shall comply with local, state and federal codes and regulations, including all ADA standards.
1.1A	PERMITS: Owner shall reimburse contractor for the cost of the building permit and any impact fees. Contractor shall be responsible for all trade permits and business licenses
1.2	INSURANCE: MUST CONFORM WITH Prologis RISK MANAGEMENT REQUIREMENTS
1.3	BUILDERS RISK INSURANCE: Owner shall provide builders risk insurance to cover the full value of the work being performed
1.4	JOBSITE CONDITIONS: All contractors must verify existing job conditions prior to bid.
1.5	DOCUMENT CONFLICTS: If there is a conflict in the drawings, or between the written specs and the drawings, the contractor shall be responsible for the more expensive of the options.
1.6	CLOSE-OUT DOCUMENTS: Provide O & M manuals and "as-built" drawings for all architectural, structural, plumbing, electrical, HVAC and fire protection work on two (2) flash drives in pdf format. Provide one (1) hard copy and one electronic copy in pdf format of the stamped permit set of drawings. The value of the close-out documents shall be 10% of the value of the respective work.
1.7	EXISTING STRUCTURE: Nothing may be suspended from the 2x4 or 2x6 sub-purlins at the roof without the structural engineer's written permission except for warehouse lighting fixtures specified below.
1.8	EXISTING CONDITIONS: These finish standards shall be modified to match existing conditions with written approval from the Prologis Project / Property Manager
1.9	FLOOR MAINTENANCE: No vehicles except scissor lifts shall be allowed inside the building during construction without written permission from the owner. All scissor lifts shall have non-marking tires and must be diapered to prevent marking and staining of the concrete floor.
1.10	SUPERVISION: The general contractor shall provide a highly experienced jobsite superintendent, acceptable to the owner, to manage all the work during the course of construction.
1.11	SAFETY: Contractor shall be green flagged in Avetta system prior to beginning any work
1.12	WARRANTIES: Contractor shall provide a one year labor and material warranty from project completion on all work performed.
DIVISION 3	CONCRETE
3.1	PATCHING: Any removal and replacement of the concrete slab shall meet the requirements of the existing slab. Do not overcut corners when cutting the floor in warehouse areas. Use care when removing concrete to avoid damage to adjacent slabs to remain. Backfill and subgrade shall be compacted to 95% of maximum dry density determined in accordance with ASTM D-1557. Dowel the new concrete patch to the existing slab with 1/2" steel dowels, extending a minimum of 8" into slab at 18" o.c., secured with epoxy. Install two (2) #4 rebar horizontally in all plumbing trenches. Use 4,000 p.s.i. (at 28 days) concrete for the pour back. All trench patching in the warehouse area shall have a 1/8 inch radius edge and apply new concrete seal. Prior to pouring concrete, stone the existing sawcut edge with an abrasive brick to approximate a 1/8 inch radius edge. Install vapor barrier if there is existing vapor barrier. Sawcut control joints in new concrete to match existing, and install joint filler to match existing (Metzger McGuire MM80 or equivalent)
3.2	BOLT HOLE AND SLAB CRACK REPAIR: All the top of the floor. Utilize a 2- part epoxy to fill the hole and over-apply to the slab surface. Scrape off the excess material once it is dry. Acceptable material: Metzger McGuire MM-80 semi-rigid 2-part epoxy material, or equal. For crack repair: Repair Procedure: Chip out spalls to reveal fresh concrete and clean repair area thoroughly. • Repair areas to be at least ½" deep and ½" wide (on either side of control joint), with vertical repair edges, no feathering! • You'll need to fill any deep cracks with sand to provide a backer rod underneath the patching material so it doesn't sink down below grade after you pour the concrete in. Leave ½" – ¾" above sand to be filled with epoxy. Epoxy to be poured so that it's supported directly by firm concrete, with no sand. • Fill area with the 2 part epoxy. Epoxy to be slightly higher than the top of the floor and allow to cure • Sand down the patches so they're smooth and flush with the floor. • When repairing the floor at a warehouse floor joint, it's critical that relief cuts are installed to prevent repair failure.
DIVISION 4	MASONRY
4.1	MASONRY WALLS: NIC
DIVISION 5	METALS
5.1	BOLLARDS: Furnish and install two (2) 6" diameter, concrete filled, thin wall steel, pipe bollards extending 4'-0" A.F.F., set in 3'-0" of concrete at each grouping of electrical transformers and panels and at all sprinkler risers in all warehouse areas and other locations exposed to vehicular traffic. Paint new and existing bollards OSHA "Caution Yellow". Surface mounted bolt down bollards may be acceptable at low traffic areas (verify with Prologis Project / Property Manager). Surface mounted bollards shall be 4" diameter 4'-0" A.F.F. with a one foot square base plate and expansion anchored to the concrete floor with four (4) each ½" expansion anchors.
5.2	Framing for roof penetrations and supports for all rooftop equipment must be reviewed, approved and stamped by a structural engineer. See 15.3.6.
5.3	EXTERIOR METAL STAIRS: Match existing stairs
DIVISION 6	WOOD AND PLASTICS
6.1	CABINETS: Furnish and install a coffee bar and / or lunch room base cabinet. The base cabinet(s) shall be plastic laminate by Wilsonart or approved equal in the manufacturer's standard color on all exposed horizontal and vertical surfaces, including open cabinet interiors, unless otherwise noted. Semi-exposed cabinet interiors and shelves shall be white melamine with .5mm PVC edge binding. Drawers shall be Grass 6036 Zargen System slides or approved equal. The hardware shall be 96mm wire pulls, 125deg. Blum concealed hinges or approved equal. The cabinet(s) shall be 6'-0" long minimum and 34" high. Each cabinet shall have one row of drawers over doors. The maximum depth for cabinet and countertop should be 24". If the toe-kick is integrated with the cabinet doors to meet the ADA requirements, use stainless steel toe-kicks for those doors.
6.2	COUNTERTOPS: The countertops shall be plastic laminate by Wilsonart or approved equal. The coffee bar tops shall have a 2" bull nosed front edge and top edge with a 4" splash and a radius inside and outside corner at the backsplash. For SF Bay Area Market, install a solid surface countertop per finish spec provided by Prologis personnel.

6.3	LAVATORY COUNTERTOPS: All office toilet rooms with multiple lavatories shall have vanities. The lavatories shall be installed in a plastic laminated countertop with 2" bull nosed front edge, a 4" backsplash and a radius inside and outside corner at the backsplash. Single accommodation toilet rooms and multiple accommodations toilet rooms serving the warehouse shall receive wall mounted lavatories. For SF Bay Area Market, install a solid surface countertop per finish spec provided by Prologis personnel.
6.4	MILLWORK QUALITY: Architectural millwork and cabinetry shall be of a construction quality equal to that of the Architectural Woodwork Institute's (AWI) custom grade for flush overlay construction. MDF products shall be made with binder containing no urea-formaldehyde. Wood glues used for fastening shall have a VOC content of 30 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24). Multipurpose construction adhesives shall have a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24). Contact adhesives shall have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24)
6.5	MILLWORK ADA STANDARDS: All Millwork must meet ADA standard as required by governing agency. Millwork must pass review to properly close out the project.
6.6	BLOCKING: Blocking is to be provided as required for installation of wall mounted items and is to meet requirements of IBC 603.1.
DIVISION 7	THERMAL AND MOISTURE PROTECTION
7.1	ROOF INSULATION: The roof insulation above conditioned area ceilings shall be R-19 (or as required by the energy compliance calculation), unfaced fiberglass batts, wire-tied in place as manufactured by Owens-Corning or equal. Attach the vapor barrier (foil) to the sub-purlin where required by code or Prologis Managers. For the office where perimeter office walls do not extend to the roof deck, lay insulation on top of the ceiling tiles if code allows.
7.2	CEILING INSULATION: Where permitted by code furnish and install R-19 (or as required by the energy compliance calculation), unfaced fiberglass batt insulation on top of the suspended acoustical ceiling at conditioned spaces.
7.3	THERMAL WALL INSULATION: Furnish and install R-13 (or as required by the energy compliance calculation) unfaced fiberglass batt insulation from floor to roof in walls between conditioned and unconditioned spaces. Furnish and install R-13 at all furred exterior concrete wall at conditioned spaces. Provide a vapor barrier where required by code. For Seattle market, install R-10 rigid insulation from floor to roof in walls between conditioned and unconditioned spaces.
7.4	ACOUSTIC INSULATION: Furnish and install 3 1/2" unfaced fiberglass batt acoustic insulation in all toilet and shower room walls and ceilings, and demising wall at office area. The batt insulation at office demising wall should go the full height of the wall.
7.5	INSULATION FACING: All exposed fiberglass batt insulation shall have a white PSK-25 or approved equivalent facing.
7.6	SKYLIGHTS: Existing skylights in conditioned areas shall be sealed if they are vented.
7.7	ROOFING: The contractor shall use a roofing contractor certified to install the existing roofing material for patching of all roof penetrations. Prior to the work, contractor should verify with Prologis manager for the qualified roofers. The new roof penetrations shall be made in accordance with the roofing manufacturer's recommendations, such that the existing roofing warranty is maintained. The patch shall also meet all of the requirements stated in the building shell specifications. On built-up roofs, pipe and conduit penetrations at the roof shall receive galvanized pipe flashing with screw clamp and elastomeric sealant and shall also be hot asphalt patched with 4 ply.
7.8	ARCHITECTURAL SHEETMETAL: Furnish and install sheet metal cap flashing on top of any roof mounted wood sleepers approved by owner.
7.9	FIRE SAFING: Penetrations at one hour walls shall be fire safed or caulked.
DIVISION 8	DOORS AND WINDOWS
8.1	INTERIOR DOORS AND FRAMES: Furnish and install 3'-0" x 7'-0" x 1-3/4", solid core, birch, B-3 stain prefinished doors in "Timely" prefinished black steel frames (clear anodized aluminum frames by ACI, Eclipse or approved equal in the San Francisco Bay Area), with 1-1/2" pairs of Hager BB1279 butts per door U.O.N. (All office door shall receive a 2'-0" sidelight in the San Francisco Bay and Seattle Areas). Doors receiving closers shall receive ball-bearing butts. Doors and frames shall be 20 minutes rated where required. When working in an existing tenant space, the new doors and frames shall match the existing doors and frames U.O.N. Use metal frame for door backing, wood is not allowed.
8.2	NEW EXTERIOR DOORS/FRAMES: 20 gauge, full flush, 1-3/4" thick hollow metal with fibrous honeycomb core or steel stiffened hollow metal. Install overhead rain drip flashing and weather stripping on new hollow metal doors. Frame: 18 gauge with 2" faces and 5/8" stops formed internal corners mitered, welded and ground smooth.
8.3	INTERIOR DOOR HARDWARE: Furnish and install Schlage AL10S Saturn passage hardware on all doors except single accommodation toilet rooms which shall receive Schlage AL40S privacy locks. The door hardware shall have a brushed chrome 626 finish U.O.N. Furnish and install weather-stripping, closers, and drop seals at doors between conditioned and non-conditioned areas. Furnish and install closers on all toilet and shower room doors. The closer shall be installed on the toilet room or warehouse side of the door. When working in an existing tenant space, the new door hardware shall match the existing door hardware U.O.N.
8.4	EXTERIOR DOOR HARDWARE: Match the existing building hardware. Include door closers, mail slots, and latch guards on all new doors.
8.5	KEYS: Owner shall rekey all locking hardware
8.6	DOOR SIGNAGE: Include all signage per code (Handicap, Exit, etc.)
8.7	OVERHEAD DOORS: Match the existing building overhead doors and door insulation. If no O.H. doors exist, use insulated Overhead Door Company or equal with 3" track 20 gauge door vertical reinforced bottom rail, with step plate flush panel sectional. Sawcut at exterior concrete panels must be certified by a licensed structural engineer. No overcuts will be allowed. Protect new overhead door tracks with "Zee Guards": 3/8" thick bent plate, 4 feet long, bolted to the tilt-up wall panel to protect all dock overhead door tracks
8.8	INTERIOR WINDOW FRAMES/GLASS: Interior windows shall be 1/4" clear tempered glass set in black "Timely" frames (or anodized aluminum frames in the S.F. Bay Area) to match the interior door frames. Glazing height shall match door height, UON; width shall be as indicated on plans.
8.9	MIRRORS: Furnish and install 4' high x 1/4" thick plate glass mirrors with two coats silver and electroplated copper backing, and wiped edges at all lavatory vanities. The mirror shall be the length of the lavatory top set directly on top of the splash and extending to the underside of the light shelf. If wall mounted lavatories are used, the mirror shall be a Bobrick 2436.

8.1	EXTERIOR GLASS: The glass in new storefront doors and "in-filled" truck door openings shall match the existing building glass. If the building glass is a long lead item, install gray vision glass (tempered if necessary) for temporary use until building standard glass is available.
8.11	WINDOW MULLIONS: Where interior drywall partitions meet the exterior window wall, furnish and install aluminum "false" mullions finished to match the existing exterior storefront.
DIVISION 9	FINISHES
	NORTHWEST
9.1	FIRE RATED WALLS: All Rated walls and partitions to meet UL U419 listed standards or equal. Metal studs with one layer of 5/8" type "X" gypsum board on each side from the floor to the roof deck. The stud size and spacing shall be per the stud manufacturer's tables and local code requirements. Install fire safing between the gypsum board and roof deck U.O.N. Provide proper UL listed head joint detail when required by code. Penetrations at one hour walls shall be fire safed or caulked per UL listings.
9.2	FULL HEIGHT DRYWALL PARTITIONS (including tenant demising walls): Metal studs with one layer of 5/8" type "X" gypsum board on each side from the floor to the roof deck with top slip track. The stud size and spacing shall be per the stud manufacturer's tables and local code requirements. Drywall installed above an acoustical ceiling shall be firetaped and screws spotted
9.3	OFFICE DRYWALL PARTITIONS: All partitions in areas with ceilings shall be undergrid 3-5/8" or 3-1/2" x 25 GA. metal studs at 24" o.c. with 5/8" fire code type "X" gypsum board on each side. The ceiling grid shall be installed first with walls built to the grid. The intersection of the wall at the grid shall be snug and flush. Install "L" metal trim at the top of the wall. Toilet room perimeter walls shall be built to 6" above grid. Furr perimeter concrete walls and interior columns in office areas to 6" above the grid.
9.4	OFFICE/TOILET RM. WALL/CEILING FINISH: All office drywall shall receive a light skip trowel textured wall finish. Denver, Salt Lake City, Portland and Seattle area projects shall receive a smooth finish. The skip trowel texture shall be the size of a quarter dollar coin. The finish shall be mocked-up on a 4'x4' piece of drywall on the jobsite for the owner's approval prior to final application. The toilet and shower room walls and ceilings shall have a smooth finish and drywall ceiling installed at 8'-0" A.F.F. U.O.N.
9.5	WAREHOUSE GYPSUM BOARD WALL FINISH: All drywall in the warehouse shall be fire taped only unless otherwise noted. Spot screws in firetaped areas
9.6	END CAPS: Where a partition meets a window mullion, furnish and install an aluminum "wall end cap" finished to match the storefront U.O.N. Install rigid 2" x 2" black foam between end cap and storefront glass if end cap does not intersect vertical mullion.
9.7	WAINSCOT: Toilet room walls shall have 4' high white FRP or plastic laminated wainscot set 6" A.F.F. U.O.N. Walls behind mop sinks, drinking fountain and laundry sinks shall receive a 4' x 4' wainscot along each side of the sink in contact with the wall. All wet walls shall receive water resistant drywall (greenboard). Walls in showers shall receive cement board backer.
9.8	ACOUSTIC CEILING TILE: Furnish and install 24" x 48" x 5/8" USG Omni non-directional fissured tile or equal, installed at 9'-0" A.F.F., U.O.N. in all office areas except toilet and shower rooms. Use second-look ceiling tile in Seattle market.
9.9	ACOUSTIC CEILING TILE SUSPENSION SYSTEM: Furnish and install Class "A" 15/16" exposed "T" grid system, intermediate duty (heavy duty in seismic design category "D" areas) with 1-1/2" main tees, 1-1/2" cross tees, and 7/8" x 7/8" wall mold as manufactured by Donn or equal per code. Fire rated grid and tile shall be used where code requires. The grid color shall be white to match the tile exactly.
9.10	CARPET: Carpeting shall be Designweave, Shaw (such as Lynchburg 26 series) or approved equal, loop graphic, solution dyed 100% nylon, 26 oz. per square yard average yarn weight minimum, 1/10th gauge, color to be selected from manufacturer's standard colors U.O.N. Carpet shall be direct glue down U.O.N. Verify with Prologis Manager for final finish selection. In Seattle Area: install walk-off mat at all doors from office to either exterior of the building or warehouse. The walk-off mat should be at least 4' wide or the width of the hallway by 3' deep. The product should be Connexus Super No 52 in either roll good or modular tile or equal.
9.11	CARPET BORDERS: Carpet insets or borders when specified as a customer upgrade shall be mitered at the corners.
9.12	CARPET PAD: Only when specified by the customer as an upgrade, shall be a minimum 3/8" thick, 8lb. dense rebound or slab rubber pad.
9.13	VINYL COMPOSITION TILE: Furnish and install 1/8" gauge, standard grade, VCT as manufactured by Tarkett, Azrock, or Armstrong. Install VCT in server rooms and IT closets. No VCT shall be installed in toilet rooms. Verify with Prologis Manager for final finish selection.
9.14	RUBBER BASE: All areas receiving floor covering and new walls except the toilet rooms shall have 4" high topset rubber base as manufactured by Burke, Roppe, or Tarkett in a standard color. Install the rubber base on a continuously roll, not sectional. Verify with Prologis Manager for final finish selection.
9.15	SHEET VINYL: New toilet rooms shall receive sheet vinyl flooring with a 6" integral flashed cove base with brushed aluminum trim on the top edge. All joints shall be heat welded and receive seam sealer. The sheet vinyl shall be Corlon or Mannington Magna, not available, need to specify later installed in all new toilet rooms. Verify with Prologis Manager for final finish selection.
9.16	TRANSITION STRIPS: Furnish and install black vinyl transition strips at all changes in flooring material U.O.N.
9.17	CERAMIC TILE: (Central Valley area only) RESTROOMS: Use 2x2 American Olean ceramic tile or equal slip resistant on floors and 4x4 ceramic tile on walls as noted on plans.
Form Date: March 10, 2017	

PRCTI20221019

JM

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DATE: 09/06/2022

PROJECT # 22008.04

SHEET TITLE:

PROLOGIS CUSTOMER
FINISH STANDARDS

SHEET NUMBER:

A4.0

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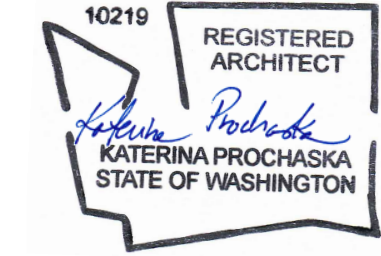
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CUSTOMER FINISH STANDARDS	
	NORTHWEST
15.3.10	EXHAUST FANS: Furnish and install an exhaust fan in each toilet room and shower room (if applicable). Install a supply air grille or a transfer grille from the toilet, shower, or break room ceiling to the adjacent conditioned space. In multi-fixture restrooms, fans shall be rated at 150 CFM minimum.
15.3.11	DUCTING: All vertical ducting shall be galvanized spiral, insulated with 1-1/2" wrap and vapor barrier. Horizontal runs may be galvanized spiral or duct board. Any exposed duct in a conditioned warehouse area must be galvanized spiral sheet metal. Final connections to the registers shall be made with a minimum 5' soft flex duct for sound attenuation, and a maximum of 8' in length.. All plenums shall be fabricated from insulated galvanized sheet metal of appropriate gauge for low pressure use. Plenums shall extend from the unit to the level of the horizontal branches. No ducting or plenum drops may be installed over warehouse space, unless approved by owner. If the project is a remodel of an existing system, all abandoned ducting shall be removed.
15.3.12	FITTINGS: All wye branch fittings shall have volume dampers with locking quadrant in main and branch ducts. The dampers shall be tagged for easy recognition.
15.3.13	GRILLES: All conditioned areas shall have a supply register and a ducted return register. Transfer grills are not permitted in the office area. Supply and return air registers shall be white baked enamel 2x2' with a perforated face, flush mounted. Supply air registers shall have a 4-way directional blow. Restroom registers need to be 1'x2' if there are multiple stalls. Restroom registers may be 1'x1' for one toilet bathrooms.
15.3.14	FILTERS: Filters shall be located at the unit, not at the return register. Replace all existing filters after the completion of the construction.
15.3.15	CONDENSATE DRAINS & PIPING: See section 15.1.7.
15.3.16	DUCT SMOKE DETECTORS: Smoke detectors shall be installed in all units 2000 cfm or greater and/or 5 ton or greater, or as required by code.
15.3.17	WAREHOUSE HEATERS: NIC
15.3.18	DRAFT STOPS: NIC
DIVISION 16	ELECTRICAL
16.1	DESIGN BUILD: Unless engineered electrical system drawings are included in the bid documents, the electrical work shall be performed on a design-build basis. The design-build electrical contractor shall furnish and install a complete and operative electrical system to meet all local and state codes.
16.2	PLANS: Provide electrical plans for architect's and owner's review and approval.
16.3	ENERGY CALCS: Provide energy compliance code lighting calculations if required.
16.4	METER SECTION: Furnish and install an electrical meter section "bussed for future" sections if not existing.
16.5	PANELS AND TRANSFORMERS: The locations of the 277/480 volt electrical panel, the transformer, and the 120/208 volt electrical panel shall be approved by the owner. Typically these should be located on the office/warehouse wall adjacent to the toilet rooms. The panels should not be located on a demising wall. The electrical panels and transformer shall be sized to allow for a 25% increase in the number of circuits in the future.
16.6-16.8	REFER TO Prologis LED SPECIFICATION FOR DESIGN, INSTALLATION AND FIXTURE REQUIREMENTS. OFFICE LIGHTING: Furnish and install 2'x4' lay-in LED light fixtures with standard acrylic lens, wired to the 277/480 volt panel, average 35 foot candles at 30" A.F.F. or as permitted by code but no less than two (2) fixtures per 10'x12' office. Wire one (1) light fixture near each exterior exit door to provide 24 hour lighting. WAREHOUSE LIGHTING: If not included in the building shell, furnish and install LED hi bay fixtures to achieve 25 foot candles (avg) at 30" A.F.F. based on an open floor plan. Fixtures shall have 15' of MC cable and shall be placed to maintain clearances and avoid conflicts relative to ESFR sprinkler systems (generally mid-way between ESFR heads or sprinkler lines). Variations from this layout necessary to accommodate the tenant's racking must meet fire code requirements.
16.9	OUTLET BOXES: All outlet boxes for wall switches, wall receptacles, telephone, etc. shall be galvanized steel or cast type boxes.
16.10	RECEPTACLES: Furnish and install two (2) 110V duplex receptacles and one (1) telephone "ring and string" in each office. Any unused telephone boxes shall receive a blank cover.
16.11	DEDICATED RECEPTACLES: Furnish and install a dedicated 110 volt fourplex outlet at the telephone board and two dedicated 110V outlets at the coffee bar. Provide a dedicated 20 AMP GFI receptacle if within 6' of any sink.
16.12	GFI RECEPTACLES: Provide one GFI electrical outlet in each toilet room and above the break room counter. Install GFI receptacles wherever required by code.
16.13	WAREHOUSE SWITCHING: The warehouse lighting shall be controlled with integral occupancy sensors, or in accordance with local code. Additionally, a manual switch (operating lighting contactors) to turn on lighting in the Speed Bay shall be provided in a location approved by Prologis.
16.14	ELECTRICAL CONDUIT / CONDUCTOR MATERIAL: All conduit shall be EMT or MC cable. All conductors must be copper. ESFR sprinkler heads shall not be obstructed by conduit.
16.15	CONDUIT INSTALLATION: All conduits in areas without ceilings shall be installed at or above the bottoms of the trusses or beams. All conduits shall be run at 90 degrees or parallel to structural members, walls, floors, and ceilings. No conduit may be installed below the slab or on top of the roof without the owner's written permission.
16.16	TELEPHONE CONDUIT: Furnish and install a 2" diameter metal conduit for phone system from the building telephone service entrance to a telephone board within the tenant space. Use PVC where allowable by code. Field verify location of building telephone service entrance. Verify that the conduit does not obstruct ESFR sprinkler heads.
16.17	TELEPHONE BOARD: Furnish and install one, 4'x8'x3/4", APA C-D plugged (paint grade), fire retardant plywood telephone backboard for mounting customer's electrical or telephone equipment. Provide No. 6 copper ground wire unless otherwise required.
16.18	TRIM COLOR: All light switches, outlets, and electrical trim shall be white U.O.N.
16.19	LABELING: Label all panels, control points, switches, and motors as directed. Panels shall be identified by panel number. Switches shall have typed labels indicating the equipment which they control. Typed (circuit) panel directories are to be supplied and installed.
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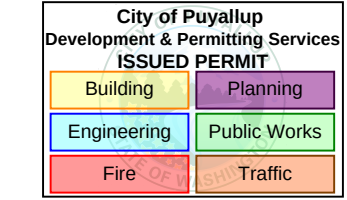
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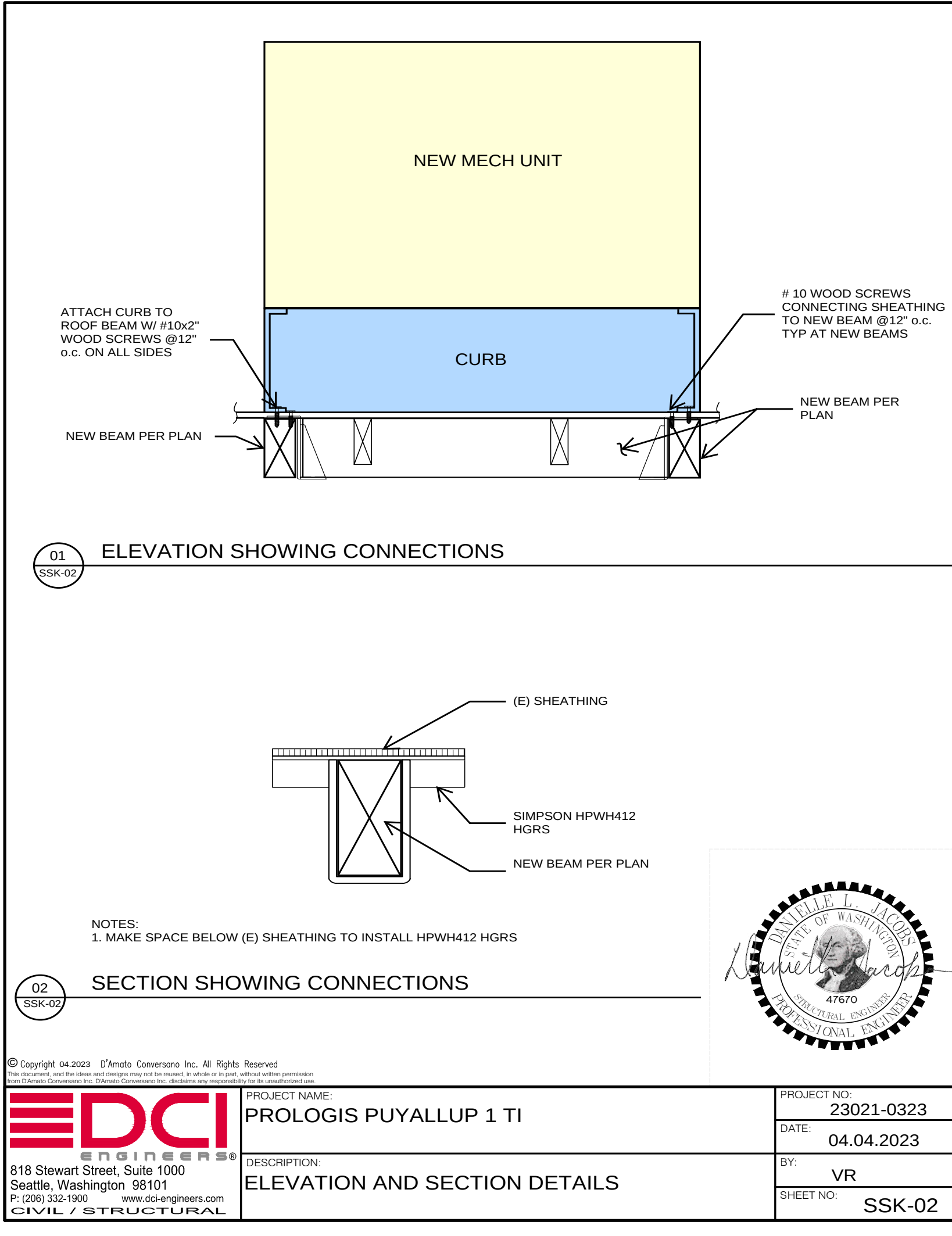
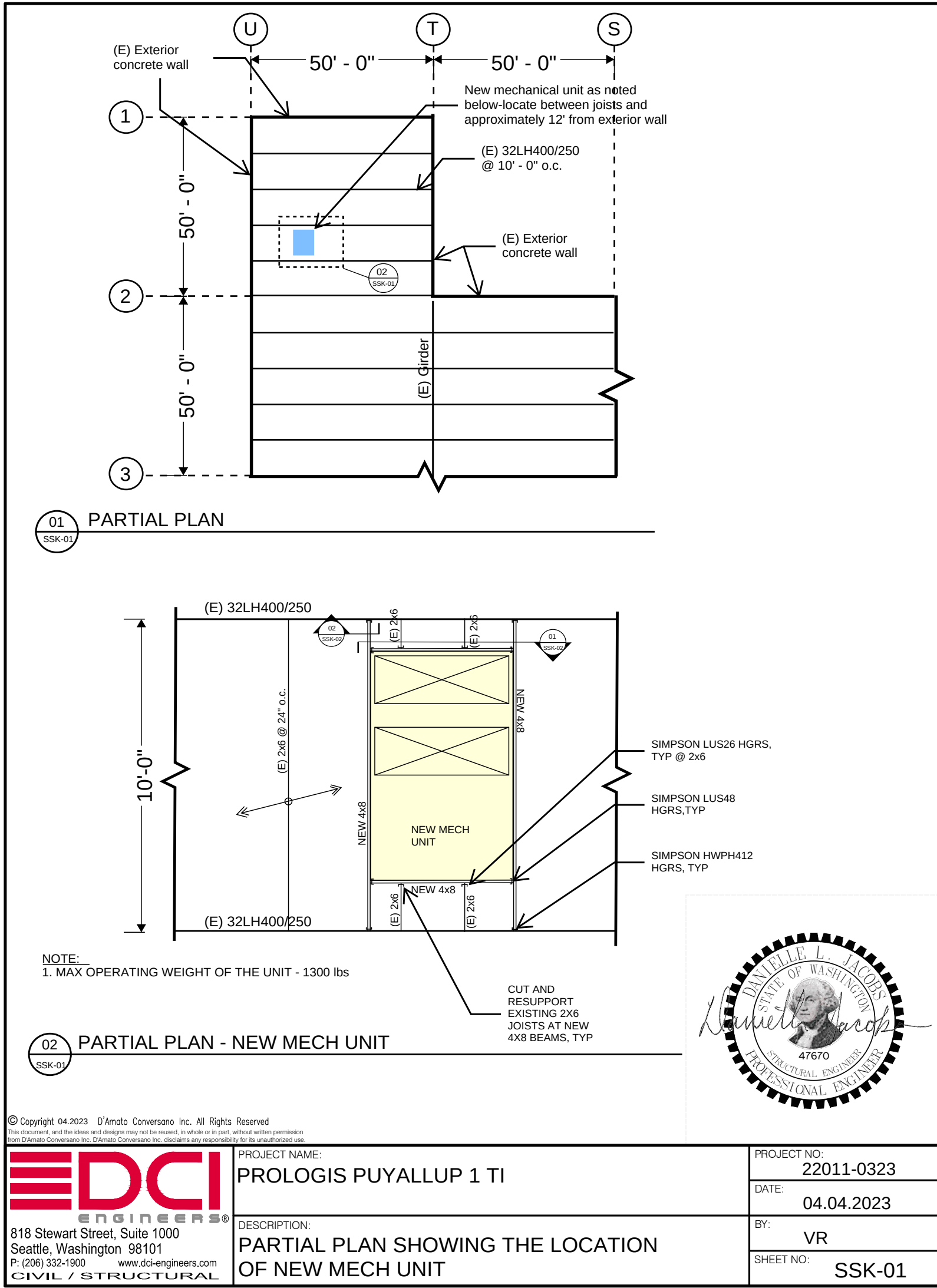
PROLOGIS CUSTOMER
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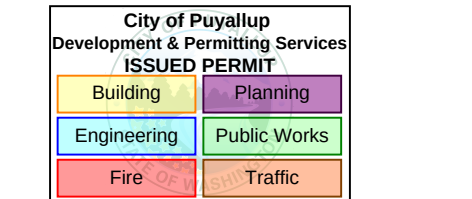
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DATE	DESCRIPTION
06/27/22	PERMIT SUBMITTAL
02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
04/07/23	PERMIT CORRECTION 2 RE-SUBMITTAL
05/02/23	PERMIT CORRECTION 3 RE-SUBMITTAL

REVISION RECORD

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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:
STRUCTURAL RTU
ADDITION DETAILING

SHEET NUMBER:

S1.0

RELEASED FOR CONSTRUCTION
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GENERAL LEGEND	
SYMBOL	DESCRIPTION
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
	PLUMBING FIXTURE REFERENCE (REFER TO SCHEDULE)
	EQUIPMENT IDENTIFICATION (REFER TO SCHEDULES)
	REVISION CLOUD AND REVISION NUMBER
	ANALOG SENSING DEVICE (SURFACE MOUNTED) (APPROPRIATE FOR MEASURED FLUID) SUBSCRIPT LETTER (X) INDICATES: A - ALARM PRESSURE SENSOR H - HUMIDITY L - LOW LIMIT P - PRESSURE (STATIC) T - TEMPERATURE

ABBREVIATIONS			
ABBR	DESCRIPTION	ABBR	DESCRIPTION
ABV	ABOVE	L	LENGTH
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LBS	POUNDS
AL	ACOUSTIC LINED	LF	LINEAR FOOT/FEET
AP	ACCESS PANEL	LVG	LEAVING
APD	AIR PRESSURE DROP	LWG	LOW WALL GRILLE
ARCH	ARCHITECT/ARCHITECTURAL	LWR	LOW WALL REGISTER
ARV	AUTOMATIC RELIEF VALVE or ACID RESISTANT VENT	LWT	LEAVING WATER TEMPERATURE
ARW	ACID RESISTANT WASTE	MAX	MAXIMUM
BDD	BACKDRAFT DAMPER	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BFP	BACKFLOW PREVENTER	MCC	MOTOR CONTROL CENTER
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
BG	BELOW GROUND	MFR	MANUFACTURER
BJ	BETWEEN JOISTS	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MISC	MISCELLANEOUS
BTUH	BRITISH THERMAL UNITS PER HOUR	MTD	MOUNTED
C	CENTIGRADE	MTG	MOUNTING
CC	COOLING COIL	N/A	NOT APPLICABLE
CD	CEILING DIFFUSER	N/C	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	N/O	NORMALLY OPEN
CG	CEILING GRILLE	NC	NOISE CRITERIA
CI	CAST IRON	NIC	NOT IN CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEANOUT		
CONC	CONCRETE	OA	OUTSIDE AIR
CONN	CONNECT or CONNECTION	OBD	OPPOSED BLADE DAMPER
CONST	CONSTRUCTION	O/C	ON CENTER
CONT	CONTINUATION	OD	OUTSIDE DIAMETER
CR	CONDENSATE RETURN	OPNG	OPENING
DB	DECIBEL or DRY BULB	PCV	PRESSURE CONTROL VALVE
DDC	DIRECT DIGITAL CONTROL	PD	PRESSURE DROP
DIA	DIAMETER	PH or Ø	PHASE
DIM	DIMENSION	PLCS	PLACES
DN	DOWN	POC	POINT OF CONNECTION
DPR	DAMPER	POUA	POINT OF USE ALARM
DWG	DRAWING	PRV	PRESSURE REDUCING VALVE
E-100	EXHAUST AIR NUMBER INDICATES CFM QUANTITY	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAGE
EAT	ENTERING AIR TEMPERATURE	R-100	RETURN AIR NUMBER INDICATES CFM QUANTITY
EF	EXHAUST FAN	RA	RETURN AIR
EG	EXHAUST GRILLE	RAG	RETURN AIR GRILLE
ELEC	ELECTRIC or ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	RPPB	REDUCED PRESSURE BACKFLOW PREVENTOR
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	S-100	SUPPLY AIR NUMBER INDICATES CFM QUANTITY
EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
EXH	EXHAUST	SF	SUPPLY FAN
EXST or (E)	EXISTING	SHT	SHEET
F	FAHRENHEIT	SIM	SIMILAR
FA	FACE AREA	SP	STATIC PRESSURE
FCO	FLOOR CLEANOUT	SQ	SQUARE
FCU	FAN COIL UNIT	SQ FT	SQUARE FOOT/FEET
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FDPR	FIRE DAMPER	STD	STANDARD
FFD	FUNNEL FLOOR DRAIN	THK	THICK
FF	FINAL FILTER	TP	TRAP PRIMER or TEST PLUG
FLR	FLOOR	TYP	TYPICAL
FPM	FEET PER MINUTE	TU	TERMINAL UNIT
FPS	FEET PER SECOND		
FT	FOOT/FEET		
FV	FACE VELOCITY		
GA	GAGE or GAUGE		
GAL	GALLON	UBC	UNIFORM BUILDING CODE
GALV	GALVANIZED	UFC	UNIFORM FIRE CODE
GPH	GALLONS PER HOUR	UMC	UNIFORM MECHANICAL CODE
GPM	GALLONS PER MINUTE	UPC	UNIFORM PLUMBING CODE
H	HEIGHT	UG	UNDERGROUND
HD	HEAD	UH	UNIT HEATER
HP	HORSEPOWER	VA	VALVE
HTG	HEATING	VAC	VACUUM
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VAV	VARIABLE AIR VOLUME
HWG	HIGH WALL GRILLE	VD	VOLUME DAMPER
HWR	HIGH WALL REGISTER	VEL	VELOCITY
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
		VTR	VENT THRU ROOF
ID	INSIDE DIAMETER	W	WIDE
IE	INVERT ELEVATION	W/	WITH
IN	INCH or INCHES	W/O	WITHOUT
INSUL	INSULATION	WB	WET BULB
INV	INVERT	WCO	WALL CLEANOUT
		WG	WATER GAGE
KW	KILOWATT	WGE	WASTE GAS EVACUATION
KWH	KILOWATT HOUR	WPD	WATER PRESSURE DROP
		WT	WEIGHT

AIR DISTRIBUTION LEGEND					
SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
		LIGHT LINEWORK INDICATES EXISTING DUCT OR EQUIPMENT			RECTANGULAR ELBOW WITH TURNING VANES (SINGLE LINE)
		INDICATES DUCT OR EQUIPMENT TO BE REMOVED			RADIUS ELBOW (SINGLE LINE)
		DUCT SIZE IN INCHES FIRST SIZE LISTED IS SIDE SHOWN			BRANCH DUCT TAKE-OFF (SINGLE LINE)
		ACOUSTIC LINED DUCT			
	R	DUCT OFFSET (UP) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)		VD	VOLUME DAMPER
	D	DUCT OFFSET (DN) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)			TWO-POSITION PARALLEL-BLADE DAMPER W/ ACTUATOR
		ROUND DUCT IN INCHES		FDPR	FIRE DAMPER
		OVAl DUCT IN INCHES		SDPR	SMOKE DAMPER
		CHANGE OF DUCT SIZE		FSD	FIRE/SMOKE DAMPER W/ ACTUATOR
		CHANGE OF DUCT SIZE (TRIANGLE NOT ALWAYS SHOWN)		MD	MODULATING OPPOSED BLADE DAMPER W/ ACTUATOR
		RECTANGULAR SUPPLY DUCT ELBOW TURNED UP		BDD	BACKDRAFT DAMPER
		RECTANGULAR SUPPLY DUCT ELBOW TURNED DOWN OR AWAY		DSD	DUCT SMOKE DETECTOR
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED UP			SOUND ATTENUATOR
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED DOWN OR AWAY			INDICATES SUPPLY AIR FLOW DIRECTION
		SMALL RECTANGULAR DUCT ELBOW TURNED DOWN OR AWAY			INDICATES RETURN or EXHAUST AIR FLOW DIRECTION
		ROUND DUCT ELBOW TURNED UP			CEILING SUPPLY DIFFUSER. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
		ROUND DUCT ELBOW TURNED DOWN OR AWAY			LINEAR SLOT DIFFUSER. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
		END OF DUCT WITH CAP (UNLESS INDICATED OTHERWISE)			CEILING GRILLE (RETURN, EXHAUST OR TRANSFER) REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
	FLEX	FLEXIBLE DUCT			GRILLE, REGISTER OR OPEN DUCT (SUPPLY SHOWN)
	AD	DUCT ACCESS DOOR			

DUCT FITTING REQUIREMENTS		
THE FOLLOWING DUCT FITTINGS ARE CONSIDERED ACCEPTABLE. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR OTHER FITTINGS PRIOR TO FABRICATION. ONLY FITTINGS WITH EQUAL OR LOWER PRESSURE DROP WILL BE CONSIDERED.		
DUCT ELBOWS R=1/2W DUCTS W/ AIR VELOCITY UNDER 1,500 FPM R=W DUCTS W/ AIR VELOCITY OVER 1,500 FPM AND ALL DUCTS UPSTREAM OF TERMINAL UNITS 12"x12" ACCESS PANEL ON BOTTOM OF DUCT UPSTREAM OF TURNING VANES. REQUIRED FOR RETURN AND EXHAUST DUCTS TURNING VANES	OFFSETS NOTE: OFFSETS (TO AVOID OBSTRUCTIONS) ARE REQUIRED BUT ARE NOT NECESSARILY SHOWN ON THE PLANS. 	BRANCH DUCT TAKEOFFS W/ MINIMUM PRESSURE DROP RECTANGULAR DUCT CONICAL SPIN-IN ROUND DUCT RUNOUT TO SINGLE DIFFUSER OR GRILLE ONLY OK ONLY UNDER 1,500 FPM D=1/2W, BUT NOT MORE THAN 12" (1/3W OK IF UNDER 3,000 FPM) ACCESS PANEL AIR EXTRACTOR ADJUSTABLE FROM OUTSIDE DUCTWORK. OBTAIN PRIOR APPROVAL FOR ALL RETURN AND EXHAUST LOCATIONS OK ONLY UNDER 1,500 FPM R=1/2W DUCTS W/ AIR VELOCITY UNDER 1,500 FPM R=W DUCTS W/ AIR VELOCITY OVER 1,500 FPM AND ALL DUCTS UPSTREAM OF TERMINAL UNITS
CHANGE OF DUCT SIZE TRANSITION CONICAL SPIN-IN OR TRANSITION TO CONNECTION SIZE AT LEAST 50% GREATER THAN AREA OF SMALLER DUCT END TAP OBTAIN PRIOR APPROVAL FOR ALL RETURN & EXHAUST LOCATIONS TURNING VANES ACCESS PANEL (TYPICAL) REQUIRED FOR RETURN & EXHAUST DUCTS NOT LESS THAN TWICE THE DUCT AREA		

DRAWING INDEX	
DWG. NO.	TITLE
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M0.3	CODE NOTES
M1.0	HVAC FLOOR PLAN
M1.1	HVAC ROOF PLAN
M2.0	MECHANICAL DETAILS
M3.0	HVAC ELEVATION

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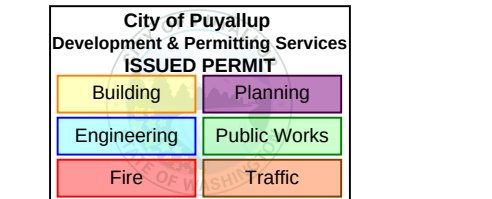
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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:
MECHANICAL GENERAL
INFORMATION

SHEET NUMBER:

M0.1

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PACKAGED ROOFTOP UNIT SCHEDULE																														
TAG	LOCATION	AREA SERVED	FAN SECTION							ECONOMIZER	POWER EXHAUST	COOLING COIL						HEATING			FILTERS	ELECTRICAL DATA					WEIGHT (LBS)	MFR	MODEL	REMARKS
			TOTAL SUPPLY CFM	OUTSIDE AIR, CFM	ESP	FAN MOTOR DATA						NOM. TON	IEER / SEER	REFRIG.	CAPACITY, MBH			CAPACITY, MBH												
					(IN. WG)	BHP	HP	FRPM	TYPE						SENS. MBH	TOTAL MBH	MOD	OUTPUT	INPUT	EFF %	V	PH	MCA	MOP	EP					
RTU-1	ROOF	OFFICE, BREAK, CONFERENCE	2,520	0	1.20	1.0	3.1	1140	ECM	YES	NO	6.0	14.6	R410A	62.8	70.6	3-STAGE	97.2	120.0	81.0	MERV 13	208	3	38.0	50	NO	1,200	TRANE	YSJ072A3	1-6
NOTES:																														
1. PROVIDE 2-POSITION MOTORIZED DAMPER.																														
2. PROVIDE INTEGRATED MODULATING ECONOMIZER WITH INTEGRAL BAROMETRIC RELIEF DAMPER.																														
3. PROVIDE UNIT WITH DISCHARGE AIR TEMPERATURE FREEZE PROTECTION SHUTDOWN SAFETY THAT TURNS OFF THE UNIT IF SUPPLY TEMP DROPS BELOW AND ADJUSTABLE SETPOINT (SET 32 DEG F BUT ADJUSTABLE).																														
4. VERTICAL DISCHARGE UNIT. PROVIDE ROOF CURB.																														
5. PROVIDE RETURN AIR SMOKE DETECTOR.																														
6. VENTILATION PROVIDED VIA DEDICATED OUTDOOR AIR SYSTEM (ERV-1).																														

ENERGY RECOVERY VENTILATOR SCHEDULE																					
MARK	LOCATION	MAKE & MODEL	SERVICE	OSA SUPPLY FAN		EXHAUST FAN		RATED OUTDOOR AIR TEMP (DEG F) WINTER/SUMMER	ROOM AIR TEMP DB / RH (DEG F) WINTER/SUMMER	WINTER / SUMMER SENSIBLE EFFECTIVENESS	WINTER / SUMMER LATENT EFFECTIVENESS	ELECTRICAL					FILTERS (SUPPLY/RETURN)	POWER TYPE	SIZE (IN) (W x L x H)	OPER WT. (LBS.)	REMARKS
				CFM	ESP	CFM	ESP					MCA	MOP	VOLTS	PH	HZ					
ERV-1	OPEN OFFICE	DAIKIN VAM470GVJU	OSA/EXH	450	0.73	470	0.73	35 DB / 95 DB/78 WB	75/50% / 70/50%	62% / 63%	48% / 30%	3.9	15	208	1	60	MERV 13	NORMAL	43.7" x 32.8" x 15.2"	121	1
NOTES:																					
1. POWER WIRING AND DISCONNECT BY E.C.																					

HVAC DUCT SYSTEM MATERIALS AND METHODS			
DUCT SYSTEM	SYSTEM ABBREV.	MATERIAL	INSULATION
SUPPLY	SA	HIDDEN DUCT: GALVANIZED G60 SHEET METAL, CONSTRUCTED PER SMACNA. EXPOSED DUCT: QUALITY SPIRAL G60 SHEET METAL, CONSTRUCTED PER SMACNA.	MINIMUM 2" THICK, 0.75 LB/CU.FT MINERAL OR GLASS FIBER BLANKET OR MINIMUM 1-1/2" THICK, 2.25 LB/CU.FT MINERAL OR GLASS FIBER BOARD
RETURN	RA	HIDDEN DUCT: GALVANIZED G60 SHEET METAL, CONSTRUCTED PER SMACNA. EXPOSED DUCT: QUALITY SPIRAL G60 SHEET METAL, CONSTRUCTED PER SMACNA.	-
EXHAUST	EXH	HIDDEN DUCT: GALVANIZED G60 SHEET METAL, CONSTRUCTED PER SMACNA. EXPOSED DUCT: QUALITY SPIRAL G60 SHEET METAL, CONSTRUCTED PER SMACNA.	-
OUTSIDE AIR	OSA	HIDDEN DUCT: GALVANIZED G60 SHEET METAL, CONSTRUCTED PER SMACNA. EXPOSED DUCT: QUALITY SPIRAL G60 SHEET METAL, CONSTRUCTED PER SMACNA.	6.0 LB/CU.FT MINERAL OR GLASS FIBER BOARD, R-7 VALUE

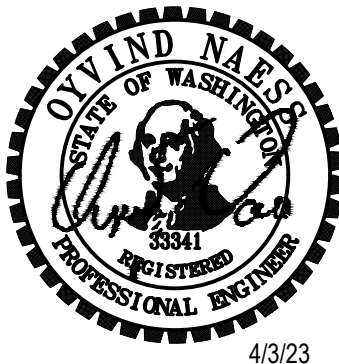
ROOF HOOD SCHEDULE													
MARK	LOCATION	SERVES	FUNCTION	CFM	SP (IN WG)	THROAT AREA (SQ. FT.)	THROAT VELOCITY (FPM)	THROAT (LxW - IN)	MANUFACTURER	MODEL	CURB CAP DIMENSIONS (WxL - IN)	WEIGHT (LBS)	REMARKS
RH-1	ROOF	ERV-1 INTAKE	OSA	450	0.028	1.36	330	14x14	GREENHECK	FGI	20x20	67	1-3
RH-2	ROOF	ERV-1 EXHAUST	EXH	470	0.029	1.36	345	14x14	GREENHECK	FGR	20x20	61	1-3
NOTES:													
1. 12" CURB, GREENHECK MODEL GPI-12, PROVIDE HINGES BETWEEN CURB AND AIR HOOD CAP TO ALLOW FOR ACCESS INTO DUCT FROM ROOF.													
2. GALVANIZED CONSTRUCTION WITH GALVANIZED BIRDSCREEN OVER THE THROAT.													
3. PROVIDE 2-POSITION MOTORIZED DAMPER. CONTORLS BY MC. 24VAC POWER.													

ELECTRIC DUCT HEATER SCHEDULE													
TAG	AREA SERVED	LOCATION	TYPE	DESIGN AIR FLOW (CFM max)	PRESS DROP (IN.WG.)	ELECTRICAL				DUCT SIZE DIA., INCHES	BASIS OF DESIGN		NOTES
						KW	V	PH	E-POWER		MFR	MODEL	
EDH-1	OFFICE	ERV OSA	OPEN COIL	450	0.04	3	208	1	NO	10"	NEPRTRONIC	DF CF01H	1,2,3,4
NOTES:													
1. MC TO PROVIDE WITH SCR OR PULSE CONTROLLER THAT IS CAPABLE OF 0 TO 100% MODULATING HEAT OUTPUT CONTROL. EC TO WIRE CONTROLLER													
2. DISCONNECT BY EC													
3. CONTROLLED BY DUCT THERMOSTAT SET TO 60 DEG F, EC TO WIRE													
4. HEATER TO BE OPEN COIL ROUND COLLAR OPTION WITH TYPE-F FLANGE													

IMC 2018 Chapter 4 Table 403.3.1.1 Ventilation Calculations												
Office Addition Room and Zone Ventilation Requirements												
System Zone Room	Occupancy Category	Rp cfm /p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Ez	Cooling Voz cfm	Ez	Heating Voz cfm	osa cfm	Design
100 Open Office	Office	5.00	3.00	0.06	782	62	1.0	62	0.80	77	80	
101 Private Office	Office	5.00	2.00	0.06	120	17	1.0	17	0.80	22	25	
102 Private Office	Office	5.00	2.00	0.06	120	17	1.0	17	0.80	22	25	
103 Private Office	Office	5.00	2.00	0.06	120	17	1.0	17	0.80	22	25	
104 Private Office	Office	5.00	3.00	0.06	190	26	1.0	26	0.80	33	35	
105 Conference	Conference/meeting	5.00	10.00	0.06	256	65	1.0	65	0.80	82	85	
106 Men's RR	Restroom	0.00	0.00	0.00	181	0	1.0	0	0.80	0	0	
107 Women's RR	Restroom	0.00	0.00	0.00	181	0	1.0	0	0.80	0	0	
108 Breakroom (Kitchenette)	Kitchens(cooking)	8.00	12.00	0.12	399	144	1.0	144	0.80	180	180	
109 IT Room	No Requirement	0.00	0.00	0.00	40	0	1.0	0	0.80	0	0	
110 Janitor's Closet	Storage Room	0.00	0.00	0.12	40	5	1.0	5	0.80	6	0	
Men's and Women's restrooms are sized per 2018 IMC with Washington Amendments, Table 403.3.1.1: 50 CFM/(Toilet or Urinal) = 3 x 50 CFM = 150 CFM Fan is operating continuously when office is occupied.												

DIFFUSER AND GRILLE SCHEDULE					
MARK	TYPE	NECK SIZE	NC	BASIS OF DESIGN	REMARKS
SD-1	24x24 MOD CORE CEILING DIFFUSER	SEE DWGS	30	TITUS MCD	BORDER TYPE 3, LAY-IN
SD-2	24x24 LOW FLOW DIFFUSER	SEE DWGS	30	TITUS TJD	LAY-IN
RG-1	CEILING RETURN GRILLE, STEEL	SEE DWGS	30	TITUS 50F	1/2"x1/2"x1/2", LAY-IN.
EG-1	CEILING EXHAUST GRILLE, STEEL	SEE DWGS	30	TITUS 50F	1/2"x1/2"x1/2", LAY-IN.
EG-2	DUCT MOUNT RETURN GRILLE	SEE DWGS	30	TITUS 350FL	BORDER TYPE 1, SURFACE MOUNT, #01 FINISH

PRCTI20221019



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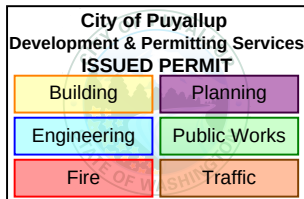
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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:

MECHANICAL EQUIPMENT
SCHEDULES

SHEET NUMBER:

M0.2

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☐ NOT RELEASED FOR CONSTRUCTION

WA GENERAL HVAC NOTES

1. SHEET METAL DUCTWORK AND COMPONENTS INCLUDING HANGING, SEALING, PLENUMS, & ACCESSORIES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR HVAC DUCT CONSTRUCTION, NFPA 90A, & 90B STANDARDS. EARTHQUAKE BRACE ALL DUCTS 28" DIA AND LARGER WHICH ARE SUSPENDED MORE THAN 12" BELOW STRUCTURAL SYSTEM.
2. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH THE CURRENT IBC 1613.
3. ALL DUCTWORK OPENINGS SHALL BE COVERED DURING CONSTRUCTION. ALL DAMPERS TO BE SET TO FULL OPEN DURING CONSTRUCTION PRIOR TO BALANCING.
4. PROVIDE UL LISTED FLEXIBLE CONNECTION ON INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT. HVAC UNIT FLEXIBLE DUCT CONNECTIONS SHALL BE MINIMUM OF 6 INCHES LONG AND HELD IN PLACE WITH HEAVY METAL BANDS, SECURELY ATTACHED TO PREVENT ANY LEAKAGE AT THE CONNECTION POINTS. FLEXIBLE CONNECTIONS SHALL BE FABRICATED FROM APPROVED FLAME PROOF FABRIC CONFORMING TO NFPA 90A. ASBESTOS CLOTH IS NOT ACCEPTABLE.
5. CONTRACTOR SHALL PROVIDE TRANSITION TO CONNECT TO ALL MECHANICAL EQUIPMENT.
6. DUCT DIMENSIONS SHOWN ARE INSIDE SHEET METAL DIMENSIONS OR CLEAR OPENING INSIDE LINED DUCT. THE FIRST NUMBER REPRESENTS THE WIDTH OF DUCT IN PLAN VIEW.
7. PROVIDE DUCT LINER IN SUPPLY AND RETURN DUCTS WITHIN 15 FT OF AIR HANDLERS.
8. PROVIDE DUCT LINER IN THE FIRST 15 FT OF SUPPLY DUCTWORK DOWNSTREAM FROM SOUND ATTENUATORS AND IN THE FIRST 15 FT OF RETURN DUCTWORK UPSTREAM OF SOUND ATTENUATORS.
9. PROVIDE MINIMUM OF 5 FT LINED RECTANGULAR DUCT DOWNSTREAM OF ALL TERMINAL UNITS.
10. PROVIDE 1" THICK DUCT LINER IN ALL TRANSFER AIR DUCTWORK UNLESS NOTED OTHERWISE.
11. ALL ELBOWS SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE OR SHALL HAVE TURNING VANES WHERE INDICATED ON PLANS. NO SQUARE THROAT OR ZERO RADIUS ELBOWS ALLOWED.
12. ALL DUCT BRANCH CONNECTIONS TO DIFFUSERS OR GRILLES AND TO OR FROM MAIN DUCTS, SHALL INCLUDE MANUAL VOLUME DAMPERS. ALL SPIN-IN FITTINGS SHALL BE CONICAL, RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS.
13. PROVIDE CONCEALED OR REMOTE DAMPER REGULATORS OR ACCESS DOORS FOR ALL MANUAL VOLUME DAMPERS LOCATED THAT ARE INACCESSIBLE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
14. PROVIDE RETURN DUCT SMOKE DETECTOR AUTOMATIC SHUT DOWN OF ALL NEW HEATING, COOLING, OR VENTILATION EQUIPMENT MOVING 2,000 CFM OR GREATER PER SECTION 606 OF THE CURRENT IMC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER AND INTERLOCK WIRING TO THE BUILDING FIRE ALARM SYSTEM. BAS TO MONITOR FIRE ALARM CONTROL PANEL AND SHUT DOWN ALL FAN TERMINAL UNITS DURING ANY BUILDING FIRE ALARM EVENT, IN ACCORDANCE WITH THE CURRENT IMC 606.2.2.
15. 24"x24" ACCESS DOORS SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
16. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND FIRE/SMOKE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY IBC 717. PROVIDE CEILING FIRE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY IBC 717.6.2.1. INSTALL FIRE DAMPERS SMOKE DAMPERS AND FIRE/SMOKE DAMPERS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, THE TERMS OF THEIR LISTING, AND THE REQUIREMENTS OF THE CURRENT IMC.
17. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
18. HEAT TRACING OF PIPING SHALL BE PROVIDED BY THE HVAC CONTRACTOR. THE HVAC CONTRACTOR SHALL COORDINATE THE HEAT TRACE POWER WIRING WITH ELECTRICAL CONTRACTOR.
19. CONTRACTOR SHALL FURNISH COMBINATION STARTERS SIZED IN ACCORDANCE WITH THE MOTOR RATING OF THE MECHANICAL EQUIPMENT. STARTERS SHALL BE SUPPLIED WITH FUSES OR CIRCUIT BREAKERS, CONTROL TRANSFORMER, OVERLOADS, ONE N.O. AND ONE N.C. AUXILIARY CONTACT AND H.O.A. SWITCH MOUNTED IN THE COVER. STARTER ENCLOSURE SHALL BE NEMA RATED FOR ITS LOCATION. STARTER SHALL BE INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. MOTOR STARTERS NOT LISTED AS BEING PROVIDED IN THE HVAC EQUIPMENT SCHEDULES ARE TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
20. FLEXIBLE DUCTWORK SHALL BE RATED CLASS I, WHEN TESTED UNDER THE REQUIREMENTS OF UL181. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED (6) FEET.
21. FLEX AND DUCTWORK SHALL NOT BE CONNECTED DIRECTLY TO DIFFUSER OR GRILLES UNLESS INDICATED IN DRAWINGS. DIFFUSER / GRILLE BOXES WITH LINER AND PERFORATED DIFFUSER PLATES SHALL BE USED.
22. PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPES AND COORDINATE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING LAYOUT.
23. ALL DUCTWORK VISIBLE THROUGH RETURN OR SUPPLY GRILLES TO BE PAINTED FLAT BLACK.
24. COORDINATE LOCATIONS OF ALL ROOM THERMOSTATS OR ROOM TEMPERATURE SENSORS WITH ARCHITECT PRIOR TO INSTALLATION.
25. SUPPLY DUCTWORK: 2" STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A). SPIRAL LOCK SEAMS IN ROUND AND FLAT OVAL DUCTWORK DO NOT REQUIRE SEALING.
26. SUPPLY DUCTWORK DOWNSTREAM OF TERMINAL UNITS: 1" STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A). SPIRAL LOCK SEAMS IN ROUND AND FLAT OVAL DUCTWORK DO NOT REQUIRE SEALING.

27. EXHAUST AND RETURN DUCTWORK: 2" STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A). 1" PRESSURE CLASS ACCEPTABLE BETWEEN GRILLES AND FIRST DAMPER.
28. GREASE DUCTWORK: PRIOR TO CONCEALMENT BY FIRE-WRAP APPLICATION, PERFORM A LEAKAGE TEST IN ACCORDANCE WITH SECTION 506.3.2.5 OF THE CURRENT IMC.
29. SHAFT WALLS CONSTRUCTED TO SUPPORT AIR MOVEMENT FOR RETURN AIR SYSTEMS AND STAIR & ELEVATOR PRESSURIZATION SYSTEMS SHALL BE CONSTRUCTED TO THE FOLLOWING STANDARDS:
- a. SHAFTS (RATED FOR MAXIMUM 2" WC) SHALL BE CONSTRUCTED TO WITHSTAND 15 PSF LOADING WITH A DEFLECTION OF L/360 (UNO).
- b. SHAFTS SHALL BE SEALED SUBSTANTIALLY AIR-TIGHT USING THE CRITERIA FROM THE IBC:
- i. IBC 715.6 FIRE RESISTANT JOINT SYSTEMS IN SMOKE BARRIERS: LEAKAGE SHALL NOT EXCEED 5 CFM PER LINEAR FOOT OF JOINT AT 0.3" WC.
- ii. IBC 909.5 SMOKE BARRIER CONSTRUCTION FOR INTERIOR EXIT STAIRWAYS AND EXIT PASSAGeways: MAXIMUM ALLOWABLE LEAKAGE AREA.
- c. STAIR AND ELEVATOR PRESSURIZATION SHAFTS SHALL BE PRESSURE TESTED DURING COMMISSIONING. CONTRACTOR SHALL MAKE MODIFICATIONS TO INSTALLATION UNTIL SHAFT IS IN COMPLIANCE.
30. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, EXCEPT AS NOTED IN SECTIONS 602.2.1.1 THROUGH 602.2.1.7 OF THE CURRENT IMC.
31. CONTRACTOR SHALL SECURE, MAINTAIN, AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS FOR DURATION OF WORK UNLESS DIRECTED OTHERWISE.
32. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, WASHINGTON STATE ENERGY CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, UNIFORM PLUMBING CODE, AND GOVERNING STATE AND LOCAL CODES AND ORDINANCES.
33. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
34. ALL WORK SHALL COMPLY WITH THE OWNER'S REQUIREMENTS.
35. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESIGN CHANGES OR IMPACTS THAT THE PROPOSED EQUIPMENT SUBSTITUTION HAS ON OTHER DISCIPLINES. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL, OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
36. REFER TO PROJECT MANUAL (SPECIFICATIONS) FOR ADDITIONAL REQUIREMENTS. PLANS AND SPECIFICATIONS SHALL BE TAKEN TOGETHER. PROVIDE ALL WORK CALLED FOR IN EITHER. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND PLANS THE MORE STRINGENT SHALL APPLY.
37. MATERIALS OR EQUIPMENT SPECIFIED TO BE "FURNISHED BY OTHERS" SHALL BE FURNISHED BY THE GENERAL CONTRACTOR AND PROCURED FROM SOURCES SPECIFIED BY THE CONTRACT DOCUMENTS.
38. ALL EQUIPMENT AND MATERIAL ON THE JOB SITE PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE.
39. VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE FINAL EQUIPMENT LOCATIONS W/ GENERAL CONTRACTOR AND OTHER TRADES TO ALLOW FOR REQUIRED MECHANICAL EQUIPMENT CLEARANCES.
40. PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
41. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SHOP FABRICATION AND/OR FIELD INSTALLATION. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR.
42. ALL MECHANICAL EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE COMPLETE, INSTALLED, AND FULLY FUNCTIONAL PRIOR TO FINAL ACCEPTANCE OF THE WORK.
43. INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. ANY CONFLICTS BETWEEN THE MANUFACTURERS DOCUMENTATION AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
44. PROVIDE SEISMIC RESTRAINT OF MECHANICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY ASCE-7 AND INTERNATIONAL BUILDING CODE AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
45. DO NOT ALLOW ANY WORK TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED AND APPROVED BY OWNER'S REPRESENTATIVE OR AUTHORITY HAVING JURISDICTION.
46. MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.

WSEC HVAC NOTES

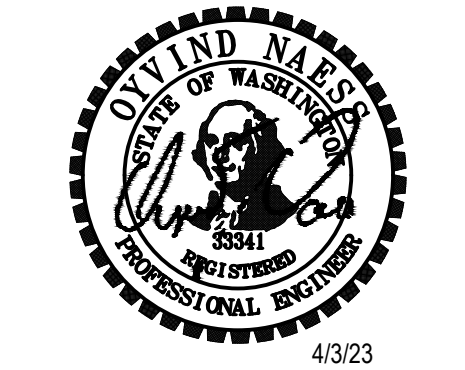
1. ALL MOTORS SIZED FROM 1/12 HP TO 1 HP SHALL BE ELECTRONICALLY COMMUTED (EC) MOTORS OR SHALL HAVE A MINIMUM EFFICIENCY OF 70 PERCENT (IN ACCORDANCE WITH DOE 10 CFR 431). MOTORS SHALL ALSO BE EQUIPPED WITH MEANS TO ADJUST MOTOR SPEED PER 2018 WSEC C405.8.
2. IN ACCORDANCE WITH C405.8 OF THE 2018 WSEC ALL ELECTRIC MOTORS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4)
3. FAN MOTORS SHALL BE THE SMALLEST AVAILABLE MOTOR SIZE GREATER THAN FAN BHP UNLESS OTHERWISE NOTED PER 2018 WSEC C403.8.2.
4. ALL MOTORS SHALL BE ENERGY EFFICIENT MOTORS MEETING NEMA STANDARD MG-1 EXCEPT THOSE INCLUDED IN PACKAGED EQUIPMENT WITH EFFICIENCY RATED AS A WHOLE UNIT.
5. HEATING AND COOLING LOADS HAVE BEEN PERFORMED PER ASHRAE STANDARDS.
6. HVAC EQUIPMENT SIZED NO LARGER THAN THE NEXT LARGEST UNIT AVAILABLE ABOVE THE CALCULATED HEATING/COOLING LOADS PER 2018 WSEC C403.3.1.
7. CONTROLS TO USE A 5°F MINIMUM DEADBAND BETWEEN HEATING AND COOLING PER 2018 WSEC C403.4.1.2.
8. AUTOMATIC SETBACK/SHUTOFF: PROVIDE WITH PROGRAMMABLE CONTROLS AS PER 2018 WSEC C403.4.2.2.
9. AUTOMATIC START AND STOP CONTROLS: PROVIDE WITH AUTOMATIC START AND STOP CONTROLS AS PER 2018 WSEC C403.4.2.3.
10. WHERE LOCATED WITHIN UNCONDITIONED SPACE AND PLENUMS ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION. WHERE SUPPLY AND RETURN DUCTWORK IS LOCATED OUTSIDE OF A BUILDING, DUCT SHALL BE INSULATED TO A MINIMUM OF R-8 (CLIMATE ZONE 4).

11. SUPPLY DUCT WHICH CONVEYS SUPPLY AIR AT TEMPERATURES LESS THAN 55 DEG F OR GREATER THAN 105 DEG F, WHEN LOCATED IN CONDITIONED SPACE, SHALL BE INSULATED WITH A MINIMUM INSULATION R-VALUE IN ACCORDANCE WITH TABLE C403.10.1.2.
12. PROVIDE HIGH PRESSURE DUCT LEAK TEST AS SPECIFIED AND REQUIRED PER 2018 WSEC C403.10.2.3.
13. ECONOMIZER FAULT DETECTION: IN ACCORDANCE WITH 2018 WSEC C403.5.5, PROVIDE ECONOMIZER FAULT DETECTION AND DIAGNOSTICS ON AIR COOLED UNITARY DIRECT-EXPANSION UNITS WITH COOLING CAPACITY OF 54,000 BTU/H OR GREATER AND EQUIPPED WITH AN ECONOMIZER.
14. ENERGY METERING: METERS ARE PROVIDED FOR ENERGY SOURCES AS PER 2018 WSEC C409 INCLUDING 409.3.1 FOR ALL HVAC EQUIPMENT WITH THE EXCEPTION OF ENERGY SERVING PROCESS LOADS, SERVICE WATER HEATING OR OTHER MISCELLANEOUS LOADS PER C409.3

WSEC COMMISSIONING NOTES

1. DOCUMENTS DESCRIBED IN CURRENT WSEC C103.6, INCLUDING RECORD DOCUMENTS, MANUALS, COMPLIANCE DOCUMENTATION, AND SYSTEM OPERATION TRAINING, SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 180 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
2. A FINAL COMMISSIONING REPORT AS DESCRIBED BY CURRENT WSEC C408.1.3 SHALL BE REQUIRED AND INCLUDES FUNCTIONAL PERFORMANCE TEST RESULTS, DESCRIPTIONS OF DEFICIENCIES & DETAILS OF CORRECTIVE MEASURES, AND FUNCTIONAL PERFORMANCE TEST RESULTS.
3. HVAC SYSTEMS MODIFIED AS A RESULT OF THE CHANGES HEREIN, SHALL BE BALANCED AS REQUIRED BY CURRENT WSEC C408.2
4. MECHANICAL EQUIPMENT AND CONTROLS MODIFIED AS A RESULT OF THE CHANGES HEREIN, SHALL BE COMMISSIONED PER CURRENT WSEC C408.2. FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2015 WSEC C408.2.3.
5. HVAC EQUIPMENT MODIFIED AS A RESULT OF THE CHANGES HEREIN, SHALL BE TESTED PER CURRENT WSEC C408.2.3.1.
6. HVAC CONTROL SYSTEMS MODIFIED AS A RESULT OF THE CHANGES HEREIN, SHALL BE TESTED PER CURRENT WSEC C408.2.3.2.
7. PROVIDE FUNCTIONAL TESTING OF ALL ECONOMIZERS ON IMPACTED SYSTEMS MODIFIED AS A RESULT OF THE CHANGES HEREIN, PER CURRENT WSEC C408.2.3.3.
8. PROVIDE FUNCTIONAL TESTING OF ELECTRICAL SYSTEM COMPONENTS PER CURRENT WSEC C408.3. SEE ELECTRICAL DRAWINGS FOR COMMISSIONING NOTES.
9. PROVIDE METERING COMMISSIONING PER CURRENT WSEC C408.6.

PRCTI20221019



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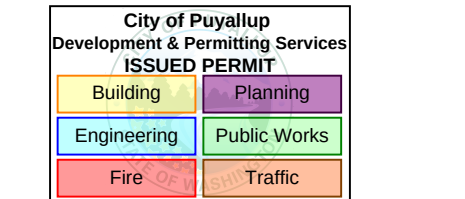
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1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL
2	04/03/23	PERMIT CORRECTION 2 RE-SUBMITTAL

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1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL

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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE:

MECHANICAL GENERAL
AND CODE NOTES

SHEET NUMBER:

M0.3

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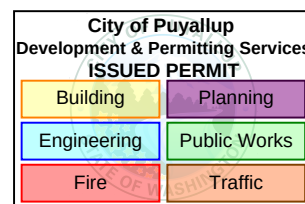
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SHEET TITLE:

HVAC FLOOR PLAN

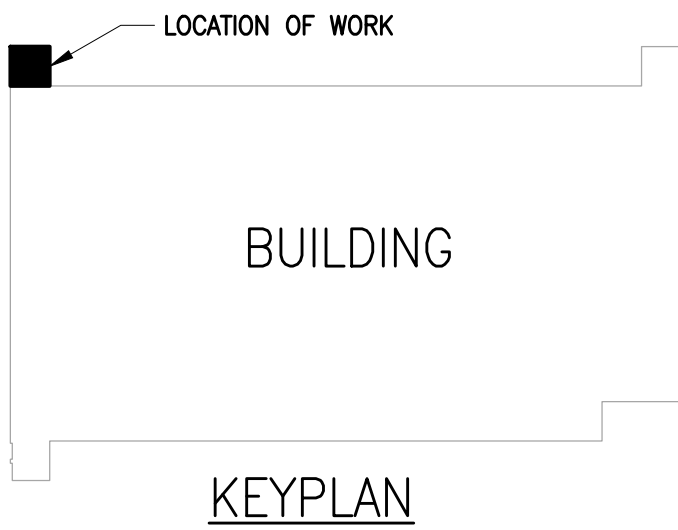
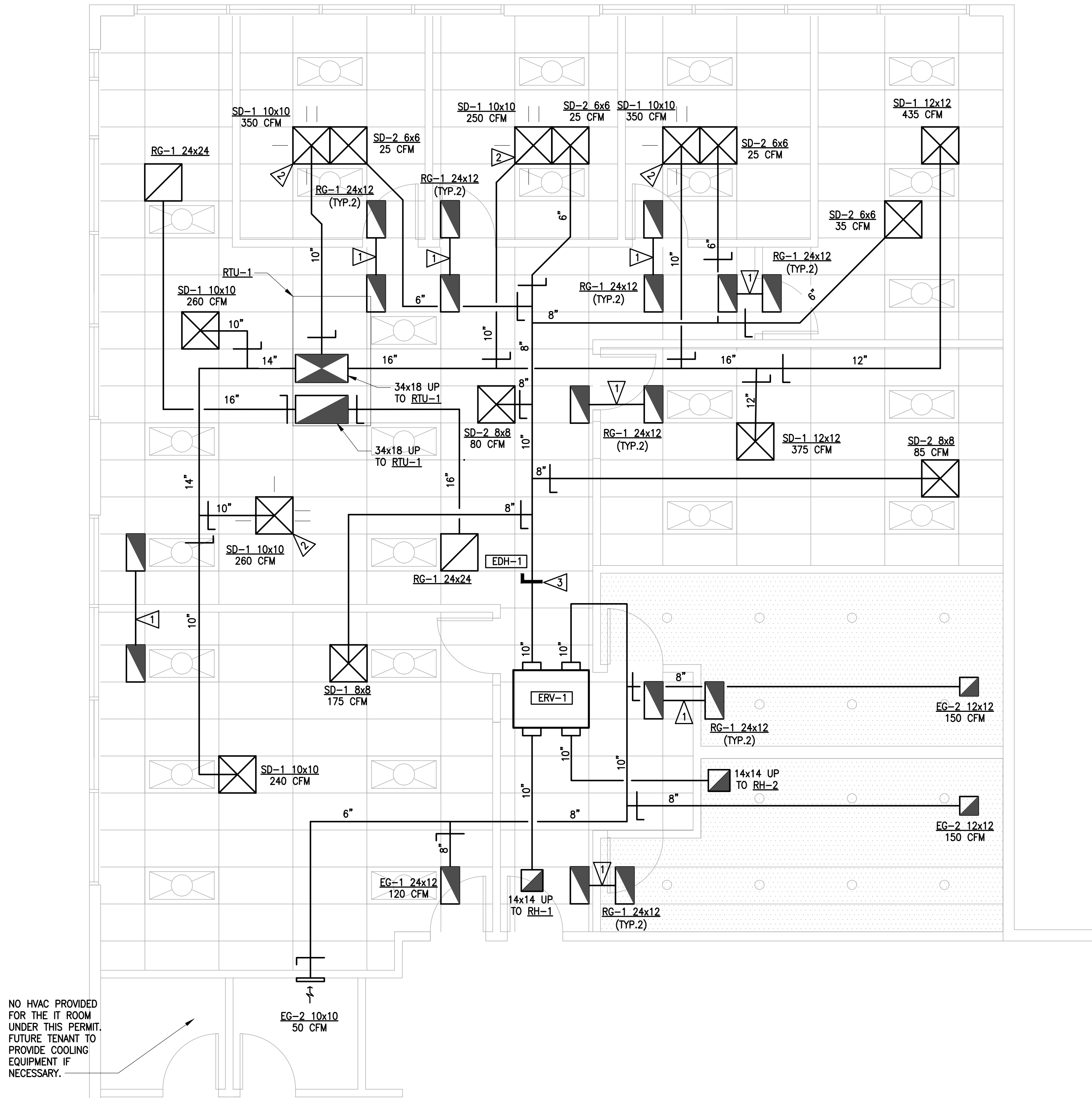
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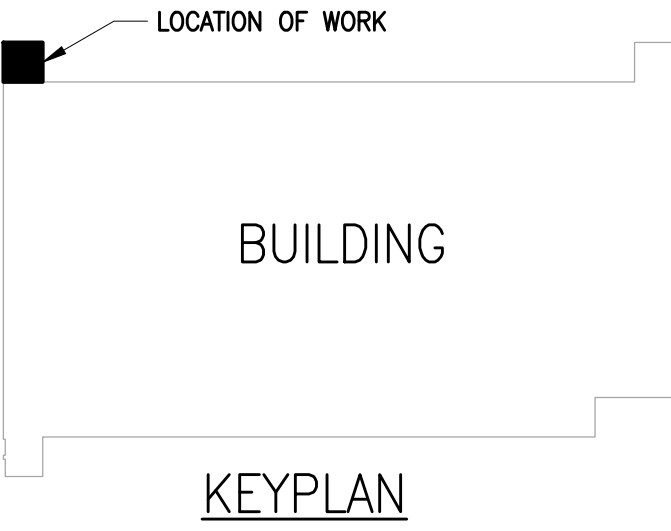
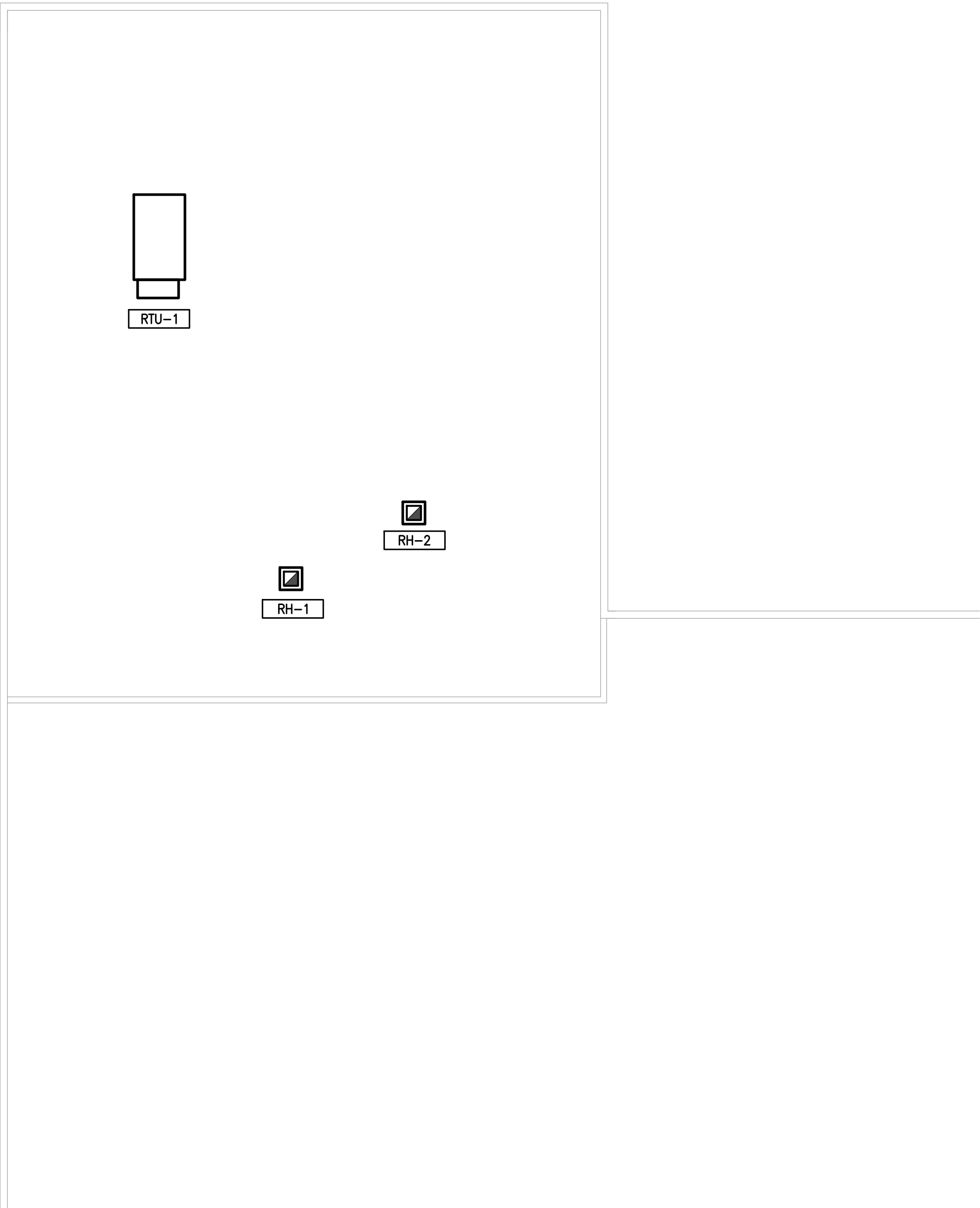
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SHEET NOTES:

- PROVIDE SOUNDLINED TRANSFER GRILLE BOOT AND SOUNDLINED SHEETMETAL TRANSFER AIR DUCT. INTERIOR OF DIFFUSER CAN TO BE SPRAY PAINTED WITH BLACK MATTE PAINT ON ALL NON-BLACK SURFACES.
- CONTRACTOR TO ADJUST DIFFUSER CORES TO PROVIDE THREE DIRECTIONAL THROW AS SHOWN ON PLAN.
- PROVIDE DUCT HEATER FOR TEMPERING ERV SUPPLY AIR. INSTALL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.





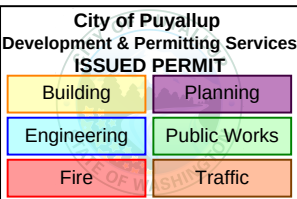
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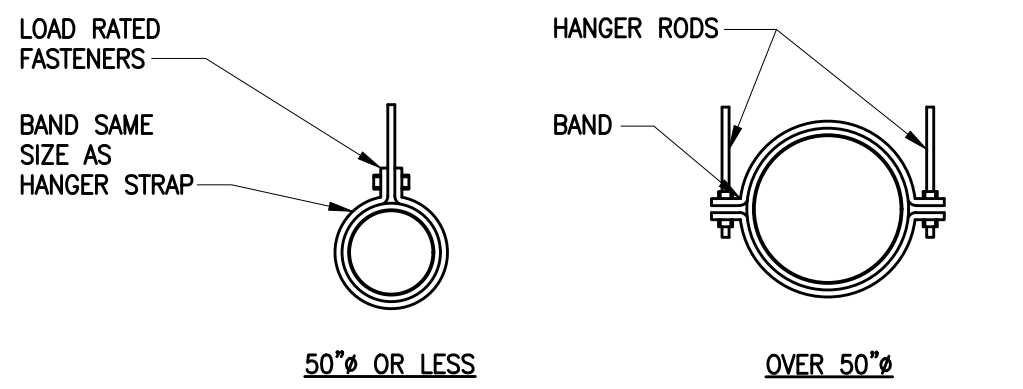
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HVAC ROOF PLAN

SHEET NUMBER:

M1.1

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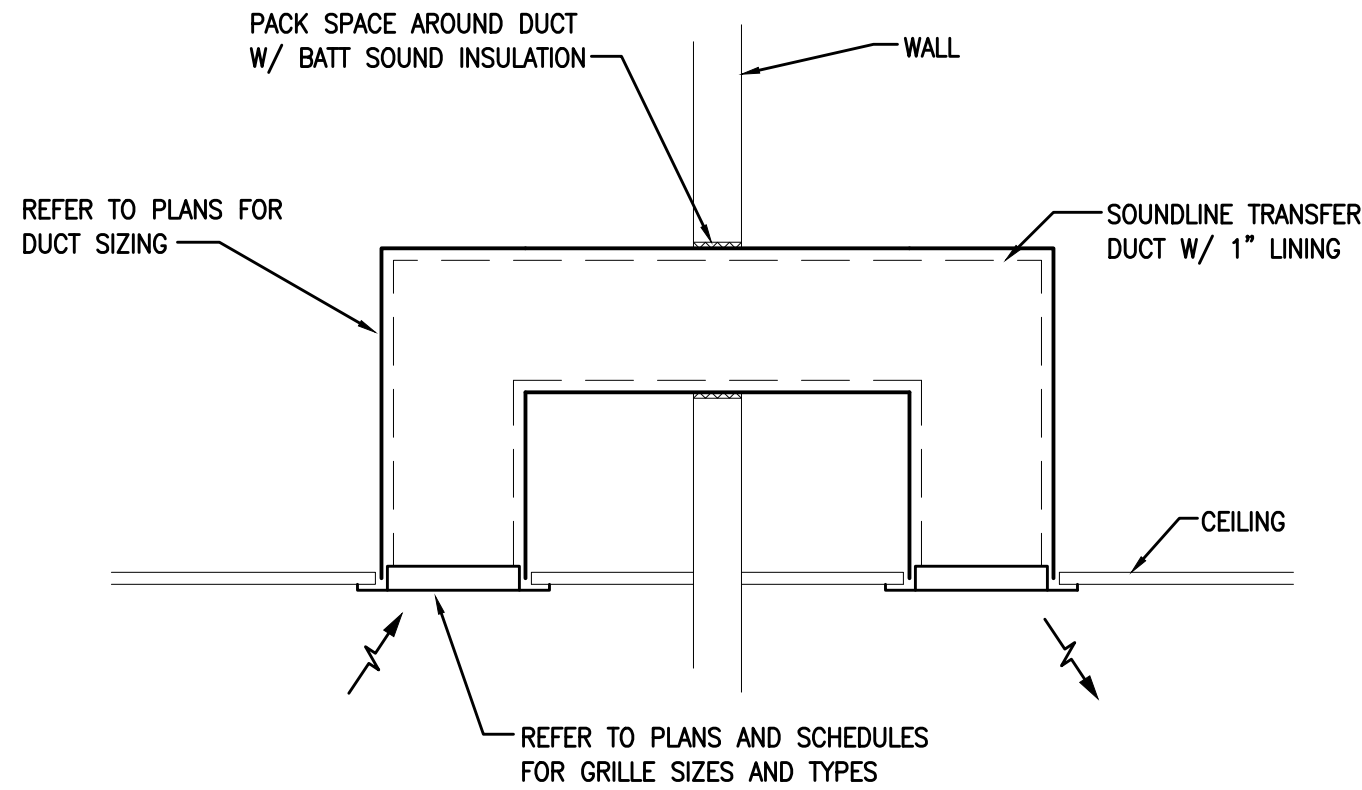


HANGER STRAPS OR RODS			
MAX. DUCT Ø IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]# RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]# RODS	2500 [1133]	144 [3600]

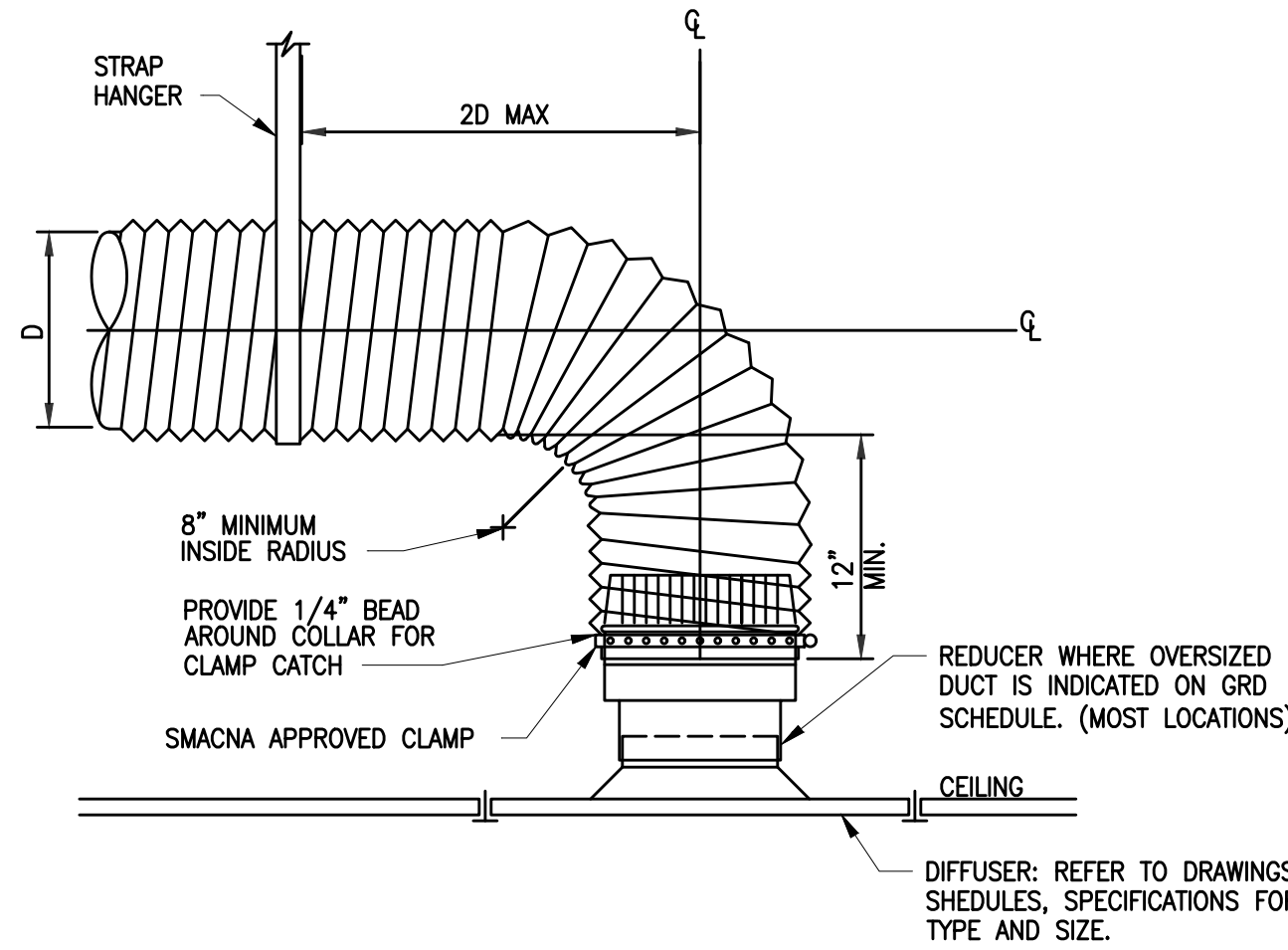
NOTE:

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

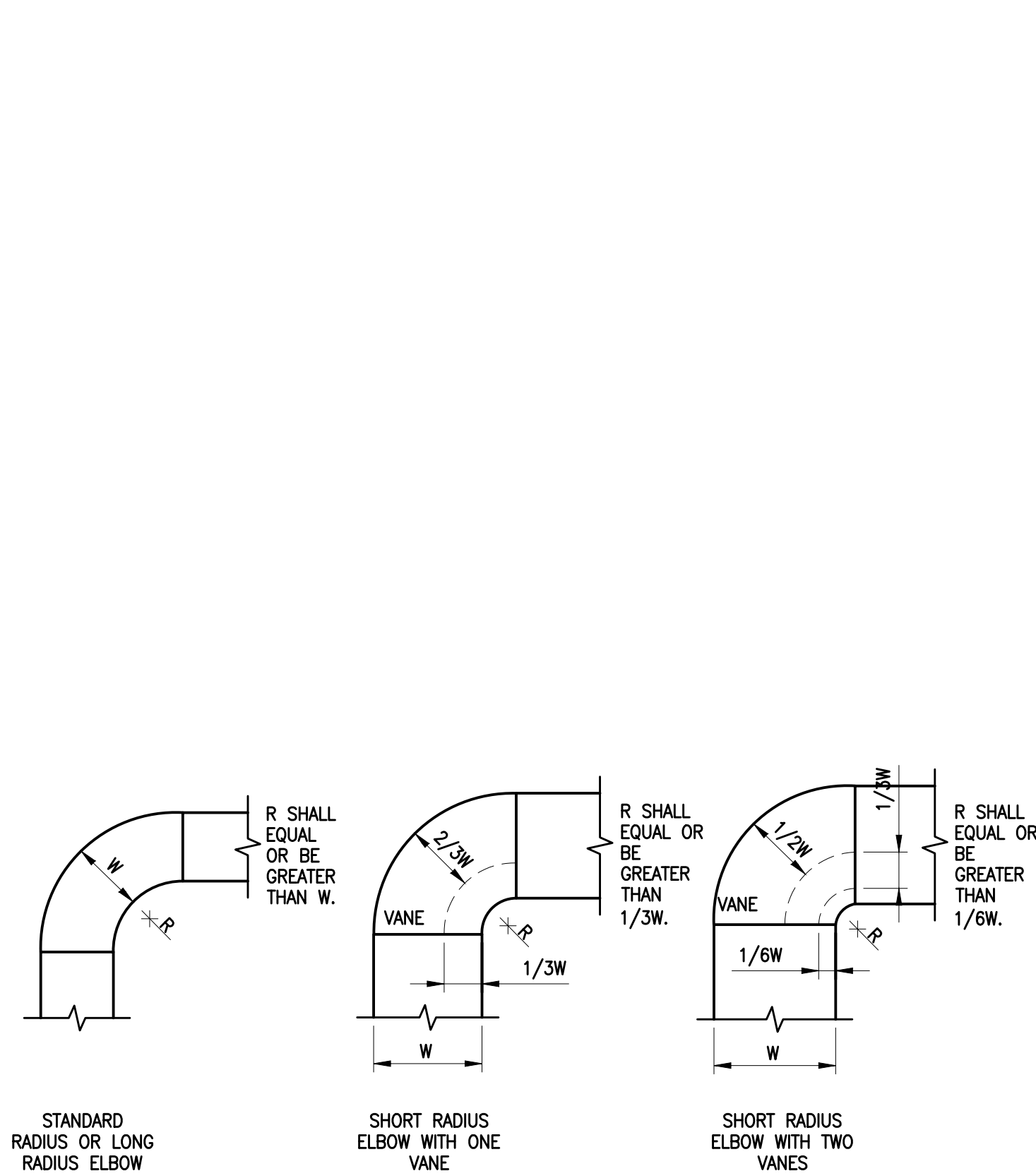
1 ROUND DUCT HANGER DETAIL
SCALE: NONE



2 TRANSFER DUCT THRU WALL DETAIL
SCALE: NONE



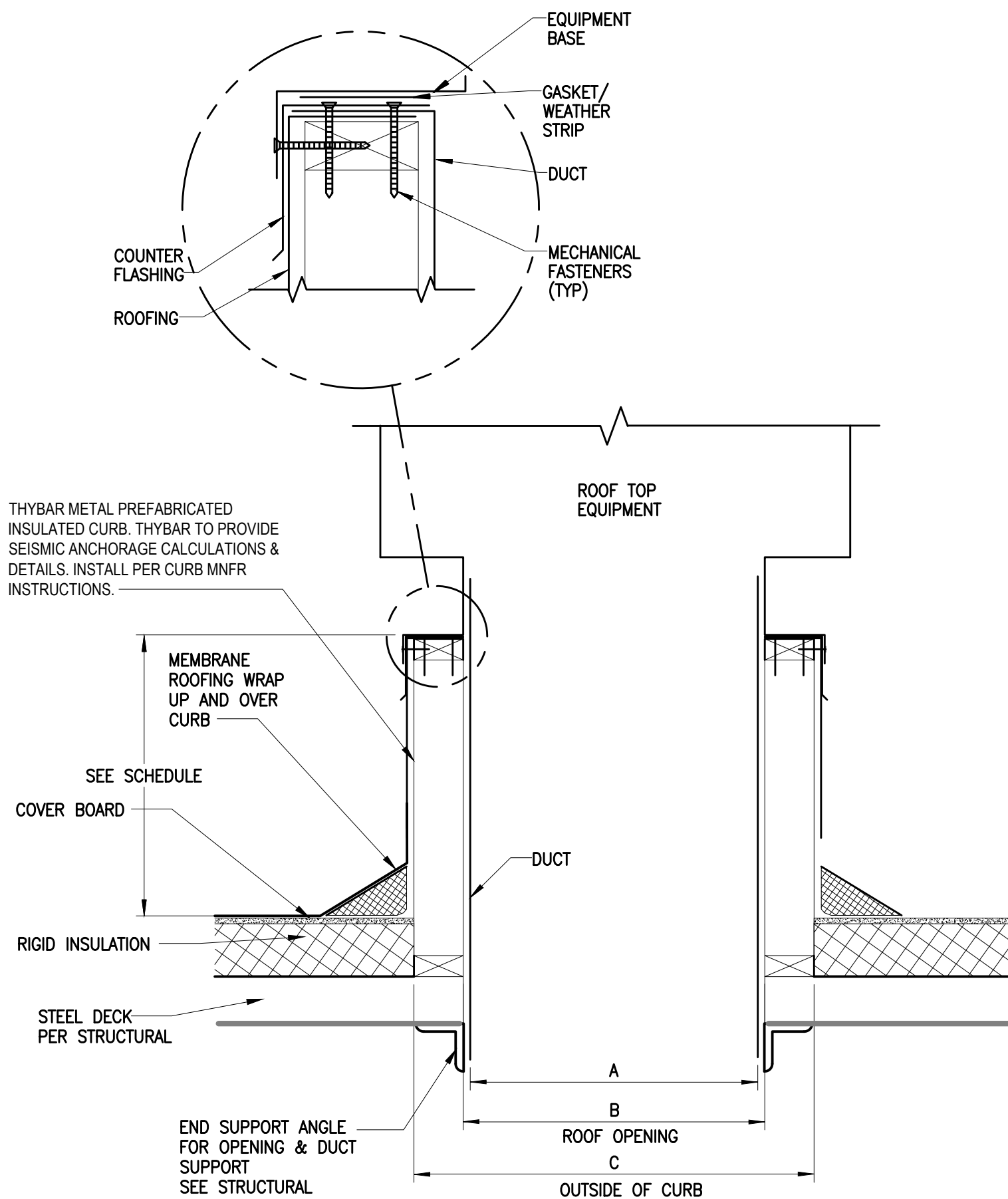
3 DIRECT DIFFUSER CONNECTION DETAIL
SCALE: NONE



NOTES:

- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
- ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS, ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

4 DUCT RADIUS ELBOW DETAIL
SCALE: NONE



NOTES:

FOR STANDARD ROOF PENETRATION
A = DUCT SIZE
B = A + 3"
C = B + 3" * FIELD DETERMINED

5 ROOF CURB DETAIL
SCALE: NONE



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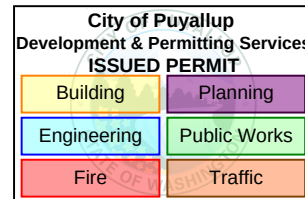
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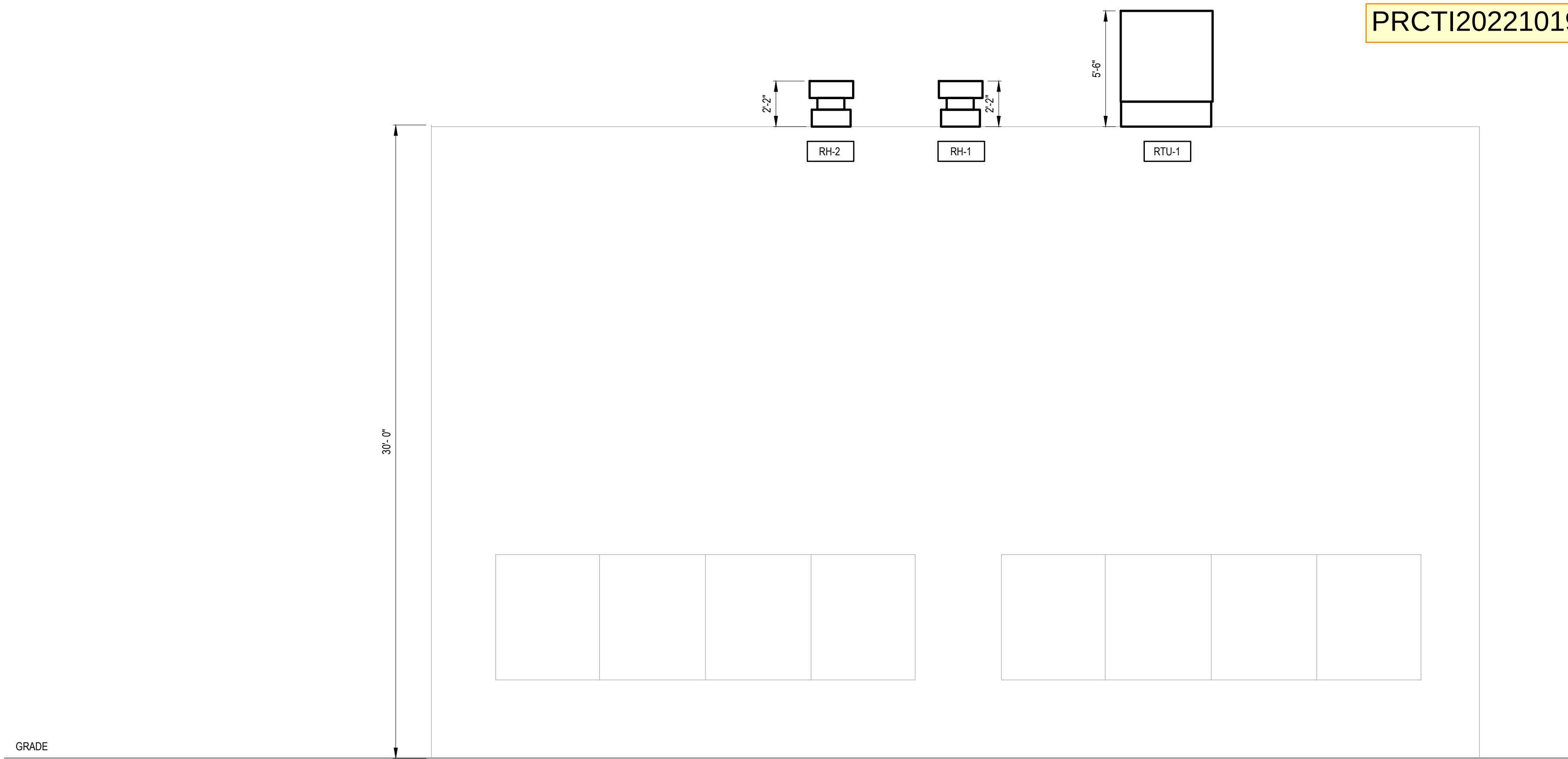
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MECHANICAL DETAILS

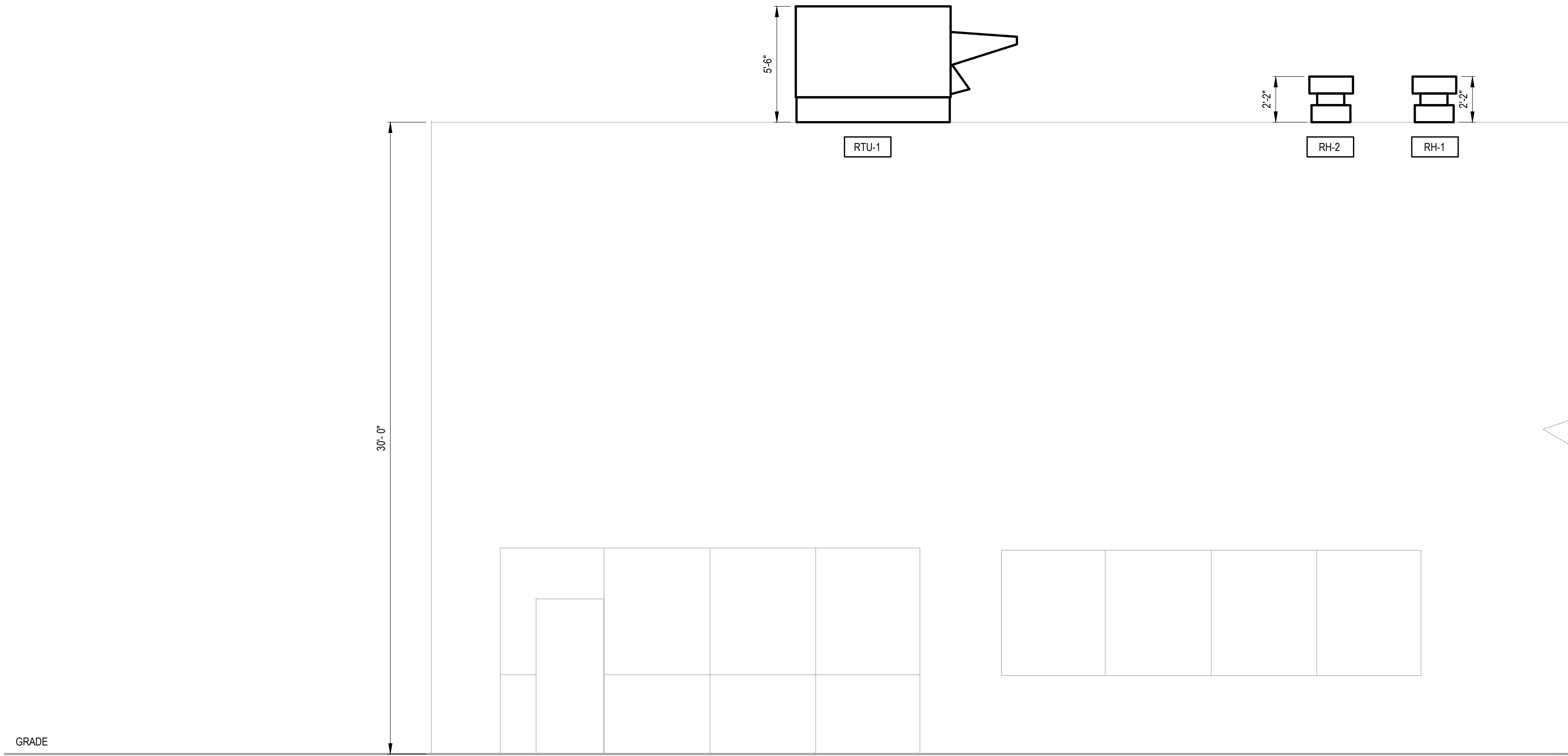
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1 HVAC SE ELEVATION
M3.0 SCALE: 1/4" = 1'-0"



2 HVAC NE ELEVATION
M3.0 SCALE: 1/4" = 1'-0"

1/4"=1'-0" 0 1 2 3 4 6 8 12



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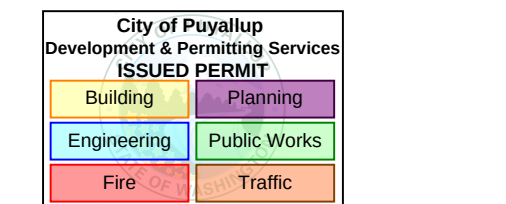
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	06/27/22	PERMIT SUBMITTAL
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REVISION RECORD

1	02/17/23	PERMIT CORRECTION 1 RE-SUBMITTAL

**PROLOGIS
PUYALLUP 1-
SUITE 103 T.I.**



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DATE: 09/06/2022 PROJECT # 22008.04

SHEET TITLE: HVAC ELEVATION

SHEET NUMBER: M3.0
☒ RELEASED FOR CONSTRUCTION
☐ NOT RELEASED FOR CONSTRUCTION

GENERAL LEGEND	
SYMBOL	DESCRIPTION
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
	PLUMBING FIXTURE REFERENCE (REFER TO SCHEDULE)
	EQUIPMENT IDENTIFICATION (REFER TO SCHEDULES)
	REVISION CLOUD AND REVISION NUMBER
	ANALOG SENSING DEVICE (SURFACE MOUNTED) (APPROPRIATE FOR MEASURED FLUID) SUBSCRIPT LETTER (X) INDICATES: A - ALARM PRESSURE SENSOR H - HUMIDITY L - LOW LIMIT P - PRESSURE (STATIC) T - TEMPERATURE

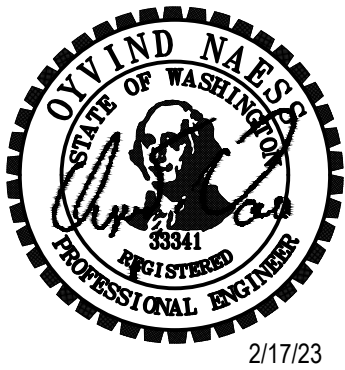
ABBREVIATIONS			
ABBR	DESCRIPTION	ABBR	DESCRIPTION
ABV	ABOVE	L	LENGTH
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LBS	POUNDS
AL	ACOUSTIC LINED	LF	LINEAR FOOT/FEET
AP	ACCESS PANEL	LVG	LEAVING
APD	AIR PRESSURE DROP	LWG	LOW WALL GRILLE
ARCH	ARCHITECT/ARCHITECTURAL	LWR	LOW WALL REGISTER
ARV	AUTOMATIC RELIEF VALVE or ACID RESISTANT VENT	LWT	LEAVING WATER TEMPERATURE
ARW	ACID RESISTANT WASTE	MAX	MAXIMUM
BDD	BACKDRAFT DAMPER	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BFP	BACKFLOW PREVENTER	MCC	MOTOR CONTROL CENTER
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
BG	BELOW GROUND	MFR	MANUFACTURER
BJ	BETWEEN JOISTS	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MISC	MISCELLANEOUS
BTUH	BRITISH THERMAL UNITS PER HOUR	MTD	MOUNTED
		MTG	MOUNTING
C	CENTIGRADE		
CC	COOLING COIL	N/A	NOT APPLICABLE
CD	CEILING DIFFUSER	N/C	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	N/O	NORMALLY OPEN
CG	CEILING GRILLE	NC	NOISE CRITERIA
CI	CAST IRON	NIC	NOT IN CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEANOUT		
CONC	CONCRETE	OA	OUTSIDE AIR
CONN	CONNECT or CONNECTION	OBD	OPPOSED BLADE DAMPER
CONST	CONSTRUCTION	O/C	ON CENTER
CONT	CONTINUATION	OD	OUTSIDE DIAMETER
CR	CONDENSATE RETURN	OPNG	OPENING
DB	DECIBEL or DRY BULB	PCV	PRESSURE CONTROL VALVE
DDC	DIRECT DIGITAL CONTROL	PD	PRESSURE DROP
DIA	DIAMETER	PH or Ø	PHASE
DIM	DIMENSION	PLCS	PLACES
DN	DOWN	POC	POINT OF CONNECTION
DPR	DAMPER	POUA	POINT OF USE ALARM
DWG	DRAWING	PRV	PRESSURE REDUCING VALVE
		PSI	POUNDS PER SQUARE INCH
E-100	EXHAUST AIR NUMBER INDICATES CFM QUANTITY	PSIG	POUNDS PER SQUARE INCH GAGE
EA	EACH	R-100	RETURN AIR NUMBER INDICATES CFM QUANTITY
EAT	ENTERING AIR TEMPERATURE		
EF	EXHAUST FAN	RA	RETURN AIR
EG	EXHAUST GRILLE	RAG	RETURN AIR GRILLE
ELEC	ELECTRIC or ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM		
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE		
EXH	EXHAUST	S-100	SUPPLY AIR NUMBER INDICATES CFM QUANTITY
EXST or (E)	EXISTING		
		SA	SUPPLY AIR
F	FAHRENHEIT	SF	SUPPLY FAN
FA	FACE AREA	SHT	SHEET
FCO	FLOOR CLEANOUT	SIM	SIMILAR
FCU	FAN COIL UNIT	SP	STATIC PRESSURE
FD	FLOOR DRAIN	SQ	SQUARE
FDPR	FIRE DAMPER	SQ FT	SQUARE FOOT/FEET
FFD	FUNNEL FLOOR DRAIN	SS	STAINLESS STEEL
FF	FINAL FILTER	STD	STANDARD
FLR	FLOOR		
FPM	FEET PER MINUTE	THK	THICK
FPS	FEET PER SECOND	TP	TRAP PRIMER or TEST PLUG
FT	FOOT/FEET	TYP	TYPICAL
FV	FACE VELOCITY	TU	TERMINAL UNIT
GA	GAGE or GAUGE	UBC	UNIFORM BUILDING CODE
GAL	GALLON	UFC	UNIFORM FIRE CODE
GALV	GALVANIZED	UMC	UNIFORM MECHANICAL CODE
GPH	GALLONS PER HOUR	UPC	UNIFORM PLUMBING CODE
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
		UH	UNIT HEATER
H	HEIGHT		
HD	HEAD	VA	VALVE
HP	HORSEPOWER	VAC	VACUUM
HTG	HEATING	VAV	VARIABLE AIR VOLUME
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VD	VOLUME DAMPER
		VEL	VELOCITY
HWG	HIGH WALL GRILLE	VFD	VARIABLE FREQUENCY DRIVE
HWR	HIGH WALL REGISTER	VTR	VENT THRU ROOF
HZ	HERTZ		
		W	WIDE
ID	INSIDE DIAMETER	W/	WITH
IE	INVERT ELEVATION	W/O	WITHOUT
IN	INCH or INCHES	WB	WET BULB
INSUL	INSULATION	WCO	WALL CLEANOUT
INV	INVERT	WC	WATER GAGE
		WGE	WASTE GAS EVACUATION
KW	KILOWATT	WPD	WATER PRESSURE DROP
KWH	KILOWATT HOUR	WT	WEIGHT

PIPING LEGEND			
SYMBOL	ABBR	DESCRIPTION	
		LIGHT LINEWORK INDICATES EXISTING PIPING OR EQUIPMENT	
		INDICATES PIPING OR EQUIPMENT TO BE REMOVED	
	SS	SANITARY SEWER – OUTSIDE BUILDING AND BELOW GROUND	
	SD	STORM DRAIN – OUTSIDE BUILDING AND BELOW GROUND	
	W	WASTE (& SOIL) – ABOVE GROUND – INTERIOR	
	W	WASTE (& SOIL) – BELOW GROUND – INTERIOR	
	V	VENT	
	ARW	ACID RESISTANT WASTE	
	ARV	ACID RESISTANT VENT	
	CW	COLD WATER – DOMESTIC	
	HW	HOT WATER – DOMESTIC	
	HWC	HOT WATER CIRCULATING – DOMESTIC	
	RD	RAINWATER DRAINAGE – ABOVE GROUND	
	RD	RAINWATER DRAINAGE – BELOW GROUND	
	ORD	RAINWATER DRAINAGE OVERFLOW – ABOVE GROUND	
	ORD	RAINWATER DRAINAGE OVERFLOW – BELOW GROUND	
	D	DRAIN – INDIRECT	
	RV	RELIEF VALVE VENT	
		PIPE SLOPE DIRECTION	
	NPW	NON-POTABLE WATER	
	IW	IRRIGATION WATER	
	DI	DEIONIZED WATER	
	DW	DISTILLED WATER	
	CS	CONDENSER WATER SUPPLY	
	CR	CONDENSER WATER RETURN	
	CWS	CHILLED WATER SUPPLY – COOLING	
	CWR	CHILLED WATER RETURN – COOLING	
	RL	LIQUID LINE – REFRIGERANT	
	RS	SUCTION LINE – REFRIGERANT	
	HG	HOT GAS LINE – REFRIGERANT	
	HWS	HOT WATER HEATING SUPPLY	
	HWR	HOT WATER HEATING RETURN	
	G	NATURAL GAS	
	CAP	PIPE END CAP	
		PIPE TURNING DOWN OR AWAY	
		PIPE TURNING UP OR TOWARD	
		PIPE TURNING DOWN OR AWAY (TEE)	
		REDUCER (NOT TYPICALLY SHOWN)	
		PIPE CONNECTION	
		PIPE ANCHOR (NOT ALWAYS SHOWN, SEE SPECIFICATIONS)	
		PIPE ALIGNMENT GUIDES (NOT ALWAYS SHOWN, SEE SPECIFICATIONS)	
	HB	HOSE BIBB	
	WH/NFWH	WALL HYDRANT or NON-FREEZE WALL HYDRANT	
	CO/WCO	CLEANOUT or WALL CLEANOUT	
	FCO/SCO	FLUSH CLEANOUT or SURFACE CLEANOUT	

SYMBOL	ABBR	DESCRIPTION
	AD	AREA DRAIN
	FD or FFD	FLOOR DRAIN or FUNNEL FLOOR DRAIN
	FS	FLOOR SINK
	OD	OVERFLOW DRAIN
	RD	ROOF DRAIN
	BV	SHUTOFF VALVE (AS SPECIFIED FOR PIPING SYSTEM)
	CKV	BALL VALVE
	BFV	BUTTERFLY VALVE
	BFV	BUTTERFLY VALVE W/ MEMORY STOP
	BAL VA	BALANCING VALVE
	BSV	COMBINATION BALANCING/SHUTOFF VALVE
	ACV	2-WAY MODULATING CONTROL VALVE W/ ACTUATOR
	ACV	3-WAY MODULATING CONTROL VALVE W/ ACTUATOR
		2-POSITION CONTROL VALVE
	PRV	PRESSURE REDUCING VALVE
	RV	RELIEF VALVE
	FMS	FLOW MEASUREMENT STATION
	STR	Y-TYPE STRAINER
	GLV	GLOBE VALVE
	OSY VA	OUTSIDE SCREW AND YOKE VALVE
	EXP VA	EXPANSION VALVE
	FCV	FLOW CONTROL VALVE
		UNION
		FLANGES
		THREADED DRAIN PLUG
		MALE (GARDEN) HOSE CONNECTION WITH CAP
	TP	TEST PLUG
		SHOCK ARRESTOR
	TH or TI	THERMOMETER (TEMPERATURE INDICATOR)
	B STR	BASKET STRAINER
	PI	PRESSURE INDICATOR
	AAV	AUTOMATIC AIR VENT
		MANUAL AIR VENT
		PUMP (DIAGRAM)
		FLEXIBLE CONNECTOR
		INDICATES ASSEMBLY OF PIPING COMPONENTS (AS NOTED OR DIAGRAMED)

DRAWING INDEX	
DWG. NO.	TITLE
P0.1	PLUMBING GENERAL INFORMATION
P0.2	PLUMBING EQUIPMENT SCHEDULES
P0.3	PLUMBING CODE NOTES
P1.0	PLUMBING FLOOR PLAN
P1.1	PLUMBING ROOF PLAN
P1.2	OVERALL PLUMBING PLAN
P2.0	PLUMBING DETAILS

PRCTI20221019



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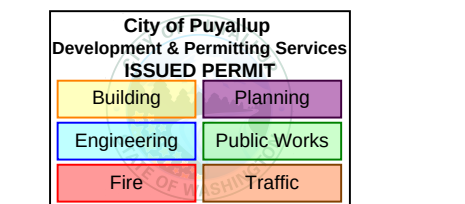
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SHEET TITLE:
PLUMBING GENERAL
INFORMATION

SHEET NUMBER:

P0.1

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PLUMBING FIXTURE SCHEDULE											
TAG	ITEM	FLOW RATE	SERVICE PIPE SIZE				BASIS OF DESIGN		REMARKS	NOTES	
			W	V	CW	HW	MANUFACTURER	MODEL			
MS-1	MOP SINK	–	3"	2"	–	–	MUSTEE	62M	SQUARE 24"x24"x8 1/4" DURASTONE FIBERGLASS MOP BASIN, ANCHOR BRACKETS	1	
	FAUCET	6.0 GPM	–	–	3/4	3/4	MUSTEE	63.600A	ROUGH BRASS CHROME PLATED, BRASS WALL MOUNTED DUAL HANDLE FAUCET, 8" CENTERS, VACUUM BREAKER BRACE.		
L-1	LAVATORY SINK	–	1 1/2	2"	–	–	AMERICAN STANDARD	355.012	20X18 WALL HUNG, VITREOUS CHINA, MOUNT AT 34" A.F.F. FOR ADA COMPLIANCE, 4" CENTERS, WITH OVERFLOW & GRID DRAIN		
	FAUCET	1.2 GPM	–	–	1/2	1/2	DELTA COMMERCIAL	523LF-HDF	TWO AND THREE MOUNT, VANDAL RESISTANT LEVER HANDLE, ADJUSTABLE HANDLE LIMIT STOP		
S-1	SINGLE COMPARTMENT SINK	–	2"	1 1/2	–	–	ELKAY	LRAD1918	INTEGRAL WITH SOLID SURFACE COUNTER AND INSTALLED BY GC. FURNISH AND INSTALL A HANDY-SHIELD DRAIN COVER. MC TO PROVIDE ROUGH IN.		
	FAUCET	1.8 GPM	–	–	1/2	1/2	DELTA	100-DST	DECK MOUNT, 3-HOLE 8" INSTALLATION, STANDARD SPOUT SWIVELS 180 DEGREES, ADA COMPLIANT		
WB-1	WALL BOX	–	–	–	1/2	–	GUY GREY	MIB-1	20 GAUGE STEEL W/ WHITE POWDER COAT FINISH.		
DF-1	BOTTLE FILLING STATION	–	1 1/4	–	1/2	–	ELKAY	EZSTL8LC	WALL MOUNTED BI-LEVEL ADA COOLER		
WC-1	FLOOR MOUNTED WATER CLOSET, FLUSH VALVE	1.6 GPF	4"	2"	1 1/4	–	AMERICAN STANDARD FLUSH VALVE	3461.001 FLUSH VALVE: 6065.761.002	VITREOUS CHINA, ELONGATED BOWL, FLOOR OUTLET, DIRECT-FED SIPHON JET, ADA COMPLIANT	2	
	SEAT						OLSONITE	523-OFFSET	OPEN FRONT, LESS COVER, ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES.		
WC-2	FLOOR MOUNTED WATER CLOSET, FLUSH VALVE, ADA	–	4"	2"	1 1/4	–	AMERICAN STANDARD FLUSH VALVE: AMERICAN STANDARD	3461.001 FLUSH VALVE: 6065.761.002	ADA COMPLIANT WHEN TOP OF SEAT HEIGHT SET AT 17"-19" FROM FF. MADERA FLOOR MOUNTED, FLUSHOMETER VALVE TOILET. 1.6 GALLONS PER FLUSH, ELONGATED BOWL, SIPHON JET, TOP SPUD, OPEN-FRONT SEAT, BOTTOM OUTLET, AND MEET OR EXCEED ANSI A112.19.2. PROVIDE SHUTOFF STOP ON SUPPLY. FLUSH VALVE SHALL BE 1.6 GALLONS PER FLUSH, DUAL FLUSH, DC POWER.	2	
UR-1	WALL MOUNTED URINAL, FLUSH VALVE	–	2"	2"	1"	–	AMERICAN STANDARD FLUSH VALVE: SLOAN	6590.125 FLUSH VALVE: 8186-0.125	SYSTEM INCLUDES URINAL AND FLUSH VALVE, TOP SPUD, 14" ELONGATED RIM FROM FINISHED WALL, STRAINER INCLUDED, VITREOUS CHINA, TWO WALL HANGERS		
FD-1	FLOOR DRAIN	–	SEE PLANS	2"	–	–	ZURN	ZN415B-1/2P	7" ROUND TOP, HEAVY DUTY DRAIN WITH NICKEL BRONZE TOP. DURA-COATED CAST IRON BODY AND FLASHING COLLAR WITH TRACTOR GRATE AND 1/2" TRAP PRIMER CONNECTION.	1	
FCO-1	FLOOR CLEANOUT	–	SEE PLANS	–	–	–	JAY R SMITH	4021S	FINISHED FLOOR CLEANOUT WITH ADJUSTABLE NICKEL BRONZE TOP, BRONZE PLUG WITH GASKET SEAL.		
WCO-1	WALL CLEANOUT	–	2"	–	–	–	ZURN	Z-1446	CAST IRON CLEANOUTS HAVING INSIDE CAULK OR PUSH-ON COMPRESSION TYPE NEOPRENE GASKETS.		
NOTES: 1. TRAPS SHALL BE THE SAME MATERIAL FOR THE PIPING IN WHICH THEY ARE INSTALLED. TRAP ASSEMBLIES SHALL BE ZURN. 2. POWER TO ELECTRONIC FLUSH VALVES BY PC.											

MIXING VALVE SCHEDULE									
MARK	LOCATION	OUTLET/COLD CONNECTION (IN.)	INLET/HW CONNECTION (IN.)	PRESSURE DROP-P.D. (PSIG)	FLOW @ P.D. (GPM)	TW OUTLET TEMP (°F)	BASIS OF DESIGN		REMARKS
							MFR.	MODEL	
TMV-1	JANITOR'S CLOSET	3/4"	3/4"	10	3	120	SYMMONS	7-200	1,2,3,4

NOTES:

1- PROVIDE WITH TEMPERATURE GAUGE IN DISCHARGE OUTLET.

2- TRANSITION FROM VALVE CONNECTION PORT INLETS/OUTLETS TO PIPE SIZES SHOWN ON PLANS.

3- MINIMUM FLOW OF VALVE IS 0.5 GPM.

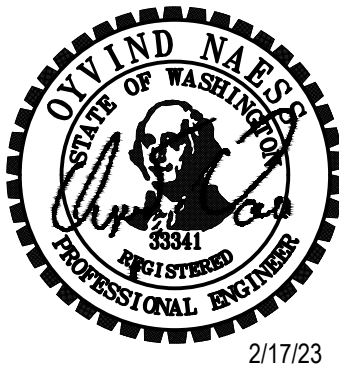
4- LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1017 OR 1070 COMPLIANT.

ELECTRIC WATER HEATER SCHEDULE													
UNIT NO.	LOCATION	SERVICE	RECOVERY (GPH)	GALLON CAPACITY	EWT F	LWT F	ELECTRICAL				WEIGHT LBS	BASIS OF DESIGN	REMARKS
							VOLT	PH	HZ	KW			
WH-1	JANITOR'S CLOSET	DOMESTIC HW	17	20	40	140	208	3	60	4.0	73 (EMPTY)	AO SMITH / DEL-20S-4	1-6
NOTE: 1. TANK TYPE WATER HEATER SET AT 140 DEG F. 2. PROVIDE EXPANSION TANK EQUAL TO WATTS PLT-5, SUITABLE FOR DOMESTIC WATER USE. 3. GLASS LINED TANK RATED FOR 150 PSIG WORKING PRESSURE. 4. COMPLIES WITH THE STANDBY LOSS REQUIREMENTS OF THE US DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1. 5. 3-YEAR TANK WARRANTY. MOUNT WATER HEATER OVER STEEL PLATFORM OR R-10 INCOMPRESSIBLE INSULATED SURFACE. 6. USE QS 120 HOLD RITE STRUT SEISMIC STRAP TO SECURE WATER HEATER. INSTALL PER MANUFACTURER I/O MANUAL.													

PLUMBING SYSTEM MATERIALS AND METHODS						
PIPE SYSTEM	SYSTEM ABBREV.	PIPE SIZE RANGE	MATERIAL	JOINING METHODS	VALVES & ACCESSORIES	INSULATION REQUIREMENT
DOMESTIC COLD WATER, HOT WATER, HOT WATER CIRCULATING	CW, HW, HWC	≤ 2" ≥ 2-1/2"	TYPE L COPPER	SOLDERED, PROPRESS FLANGED, GROOVED FITTINGS W/ HIGH TEMP GASKETS, VICTAULIC NSF 61 OR EQUAL	BRONZE OR BRASS BODY, STAINLESS STEEL TRIM BRONZE, BRASS, OR CAST IRON BODY, CHROME PLATED TRIM	CW: 1/2" HW: IF PIPE < 1-1/2", THEN 1" IF PIPE ≥ 1-1/2", THEN 1-1/2"
SANITARY VENT (BELOW GRADE)	V	ALL SIZES	ABS CELLULAR CORE	SOLVENT CEMENT	N/A	–
SANITARY VENT (ABOVE GRADE)	V	ALL SIZES	ABS CELLULAR CORE	SOLVENT CEMENT	N/A	–
SANITARY WASTE (BELOW GRADE)	W	ALL SIZES	ABS CELLULAR CORE	SOLVENT CEMENT	N/A	–
SANITARY WASTE (ABOVE GRADE)	W	ALL SIZES	CAST IRON SOIL PIPE STAMPED SERVICE WEIGHT CAST IRON, NSF	HUBLESS, HEAVY DUTY, 4 BAND	N/A	–
NATURAL GAS	G	≤ 2" ≥ 2-1/2"	SCHED. 40 BLACK STEEL ERW, ASTM A53, GRADE B. EXPOSED PIPE TO BE PAINTED.	THREADED BUTT-WELDED	– –	– –
TRAP PRIMER PIPING – GENERAL	TP	1/2"	PEX TUBING	CRIMP RINGS	N/A	–
PIPE INSULATION (INSIDE BUILDING) UNLESS NOTED OTHERWISE ON PLAN OR SPECIFICATIONS			OWENS CORNING FIBERGLASS WITH "EVOLUTION PAPER-FREE ASJ"		PVC COVERS FOR FITTINGS AND REMOVABLE COVERS FOR VALVES	INSULATION CONTRACTOR TO COMPLY WITH CURRENT ENERGY CODE FOR R-VALUES, THERMAL CONDUCTIVITY, & THICKNESS

PUMP SCHEDULE														
TAG	SERVICE	LOCATION	CAPACITY		MOTOR						PUMP SUCTION / DISCHARGE SIZE	BASIS OF DESIGN	WEIGHT (LBS)	REMARKS
			GPM	FT HD	HP	RPM	VOLTS	PH	VFD?	POWER TYPE				
CP-1	HOT WATER RECIRC	JANITOR'S CLOSET	3	15	1/12	—	120	1	NO	N	3/4"	B&G ECOCIRC XL 20-35	22	1,2
NOTES:														
1. LEAD-FREE STAINLESS STEEL PUMP FOR POTABLE WATER USE. HIGH EFFICIENCY ECM. 30% GLASS FILLED NORYL IMPELLER, STAINLESS STEEL SHAFT & SLEEVE. STARTER PROVIDED BY EC. CONTROL BY PC, PROVIDE WITH AQUASTAT AND TIMER.														
2. PROVIDE BALANCING VALVE. SEE WATER HEATER DETAIL.														

ELECTRONIC TRAP PRIMER								
MARK	LOCATION	SERVICE	TYPE	ELECTRICAL DATA		BASIS OF DESIGN		NOTES
				VOLTS	PH	MFR.	MODEL	
TPS-1	RESTROOM	CW	WALL-MOUNT	115	1	PRECISION PLUMBING PRODUCTS	PTS-6	1
1. 12x12x4 NEMA-1 CABINET, 3/4" INLET, (2) CURRENT SCOPE & (4) FUTURE SCOPE 1/2" TUBE CONNECTIONS								



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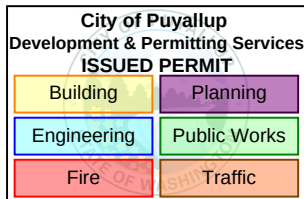
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PLUMBING EQUIPMENT
SCHEDULES

SHEET NUMBER:

P0.2

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WA STATE GENERAL PLUMBING NOTES

1. PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
2. DO NOT SCALE DRAWINGS. INSTALL SYSTEMS BASED ON ACTUAL FIELD MEASUREMENTS.
3. PIPING AND EQUIPMENT ANCHORAGE: PROVIDE SEISMIC RESTRAINTS AND ANCHORAGE PER SPECIFICATIONS AND THE INTERNATIONAL BUILDING CODE.
4. PIPE SIZES: WHERE A SECTION OF PIPE BETWEEN TAKEOFFS DOES NOT HAVE A SIZE INDICATED, IT SHALL BE SAME SIZE AS SECTION UPSTREAM. IN GENERAL, AS VOLUME FLOW RATE DECREASES, PIPE SIZE SHALL REMAIN LARGE UNTIL A SMALLER SIZE IS INDICATED. NOTE THAT SOME PIPE SIZES ARE INDICATED ON ASSOCIATED DEVICE SCHEDULE.
5. HANDICAP FIXTURES: PLUMBING FIXTURES AND TRIM IN HANDICAP ACCESSIBLE AREAS SHALL COMPLY WITH ALL ADA STANDARDS AND REQUIREMENTS AS WELL AS STATE AND LOCAL CODES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS, FLOORS, AND CEILINGS.
7. COORDINATE EXACT LOCATION OF STUB-UPS TO PLUMBING FIXTURES WITH ARCHITECTURAL PLANS. PROVIDE MEANS TO CONNECT TO ABOVE GROUND PIPING & INSTALLATION OF DRAINS.
8. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATIONS OF STUB-INS PRIOR TO INSTALLATION.
9. PLUMBING CONTRACTOR SHALL NOTIFY ENGINEER OF ANY PROPOSED CHANGES TO DESIGN PRIOR TO TAKING ACTION.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
11. PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE LATEST ACCEPTED VERSION OF THE IBC. COORDINATE WITH ARCHITECTURAL PLANS.
12. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
13. SUPPORT HORIZONTAL LINES OF COPPER TUBING WITH HANGERS SPACED NOT MORE THAN 6- FEET, CENTER TO CENTER FOR ALL PIPE SIZES. ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES, AND RISERS.
14. SUPPORT HORIZONTAL CAST IRON SOIL PIPE WITH HANGER, OR PIER, TWO FOR EACH 5-FOOT PIPE LENGTH. LOCATE SUPPORT CLOSE TO JOINTS EXCEPT, PIPE EXCEEDING 5- FEET IN LENGTH SHALL BE SUPPORTED AT NO MORE THAN 5-FOOT INTERVALS. SUPPORTS SHALL BE LOCATED ON BOTH SIDES OF ALL JOINTS AND WITHIN 6" OF THE JOINTS.
15. NO DOMESTIC HOT WATER, HOT WATER RECIRCULATING, OR COLD WATER PIPING WILL BE PERMITTED WITHIN EXTERIOR WALLS.
16. PROVIDE WATER HAMMER ARRESTORS (SHOCK ABSORBERS) AT ALL PIPE LOCATIONS WHERE VALVE CLOSURES (SUCH AS FLUSH VALVES) MAY CAUSE WATER HAMMER OR RESULT IN EXCESSIVE PIPE VIBRATION OR MOVEMENT.
17. CLEANOUTS: PLUMBING CLEANOUT LOCATIONS ARE NOT ALWAYS ESTABLISHED ON THE PLUMBING PLANS IN ORDER TO GIVE THE PLUMBER FLEXIBILITY TO LOCATE PLUMBING CLEANOUTS IN THE MOST ACCESSIBLE AREAS. AS A MINIMUM, PROVIDE CLEANOUTS AS REQUIRED BY THE UNIFORM PLUMBING CODE. CLEANOUTS THAT MUST BE INSTALLED IN PIPES THAT ARE DIFFICULT TO ACCESS SHALL BE EITHER WALL OR FLOOR CLEANOUTS. FLOOR CLEANOUTS SHALL BE LOCATED SO AS TO BE SERVICED FROM CORRIDORS, TOILET OR JANITOR ROOMS WHEREVER POSSIBLE.
18. WATER HAMMER ARRESTORS: WATER HAMMER ARRESTORS SHALL BE LOCATED TO BE ACCESSIBLE EITHER THROUGH ACCESSIBLE CEILING OR WALL ACCESS DOORS. REFER TO SPECIFICATION FOR WHERE ARRESTORS NEED TO BE LOCATED.
19. DRAINAGE PIPING SHALL BE PROTECTED FROM CONCRETE USING 10-MIL PLUMBERS TAPE.
20. SANITARY PIPING 2" AND BELOW SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT AND PIPING 4" AND ABOVE SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT, UNLESS OTHERWISE NOTED.
21. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS SHALL BE SEAMLESS TYPE "L" COPPER WITH 95-5 SOLDER OR PEX. SOLDER CONTAINING LEAD IS NOT ACCEPTABLE.
22. EFFICIENT WATER HEATER SUPPLY PIPING: HOT WATER SUPPLY PIPING SHALL BE PLUMBED IN COMPLIANCE WITH C404.3 IN CURRENT WSEC.
23. PLUMBING CONTRACTOR SHALL PRESSURE TEST PIPING PRIOR TO COVERING AND SUBMIT TEST REPORT TO ENGINEER.

GENERAL MECHANICAL NOTES

1. CONTRACTOR SHALL SECURE, MAINTAIN, AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS FOR DURATION OF WORK UNLESS DIRECTED OTHERWISE.
2. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, WASHINGTON STATE ENERGY CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, UNIFORM PLUMBING CODE, AND GOVERNING STATE AND LOCAL CODES AND ORDINANCES.
3. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
4. ALL WORK SHALL COMPLY WITH THE OWNER'S REQUIREMENTS.
5. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESIGN CHANGES OR IMPACTS THAT THE PROPOSED EQUIPMENT SUBSTITUTION HAS ON OTHER DISCIPLINES. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL, OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. REFER TO PROJECT MANUAL (SPECIFICATIONS) FOR ADDITIONAL REQUIREMENTS. PLANS AND SPECIFICATIONS SHALL BE TAKEN TOGETHER. PROVIDE ALL WORK CALLED FOR IN EITHER. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND PLANS THE MORE STRINGENT SHALL APPLY.
7. MATERIALS OR EQUIPMENT SPECIFIED TO BE "FURNISHED BY OTHERS" SHALL BE FURNISHED BY THE GENERAL CONTRACTOR AND PROCURED FROM SOURCES SPECIFIED BY THE CONTRACT DOCUMENTS.
8. ALL EQUIPMENT AND MATERIAL ON THE JOB SITE PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE.
9. VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE FINAL EQUIPMENT LOCATIONS W/ GENERAL CONTRACTOR AND OTHER TRADES TO ALLOW FOR REQUIRED MECHANICAL EQUIPMENT CLEARANCES.
10. PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
11. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SHOP FABRICATION AND/OR FIELD INSTALLATION. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL MECHANICAL EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE COMPLETE, INSTALLED, AND FULLY FUNCTIONAL PRIOR TO FINAL ACCEPTANCE OF THE WORK.
13. INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. ANY CONFLICTS BETWEEN THE MANUFACTURERS DOCUMENTATION AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
14. PROVIDE SEISMIC RESTRAINT OF MECHANICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY ASCE-7 AND INTERNATIONAL BUILDING CODE AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
15. DO NOT ALLOW ANY WORK TO BE COVERED UP OR ENCLOSED UNTIL INSPECTED, TESTED AND APPROVED BY OWNER'S REPRESENTATIVE OR AUTHORITY HAVING JURISDICTION.
16. MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.



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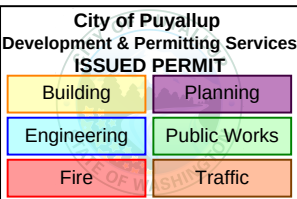
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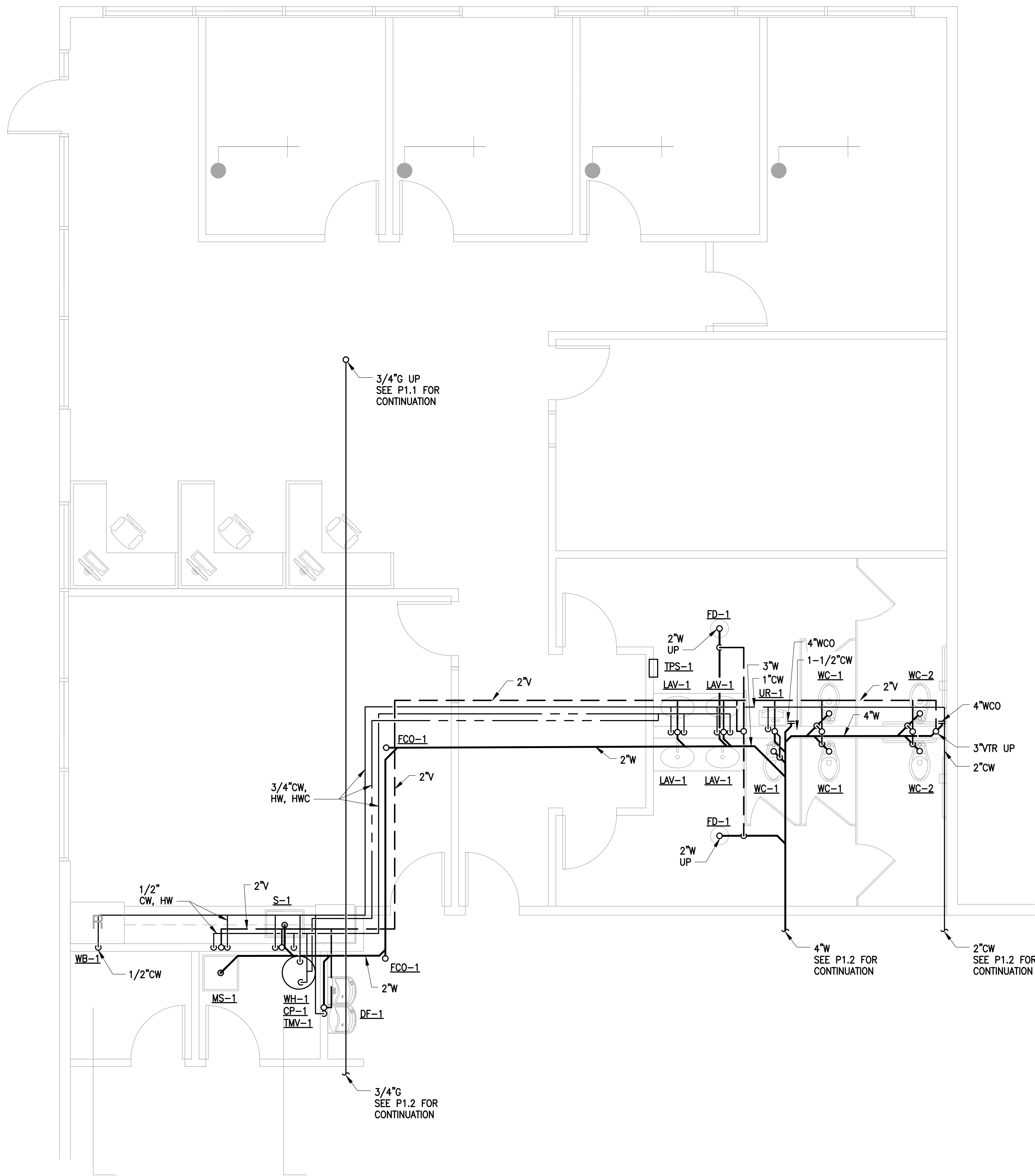
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PLUMBING GENERAL AND
CODE NOTES

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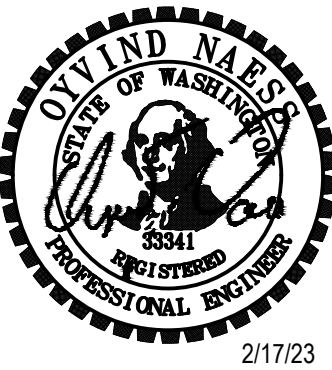
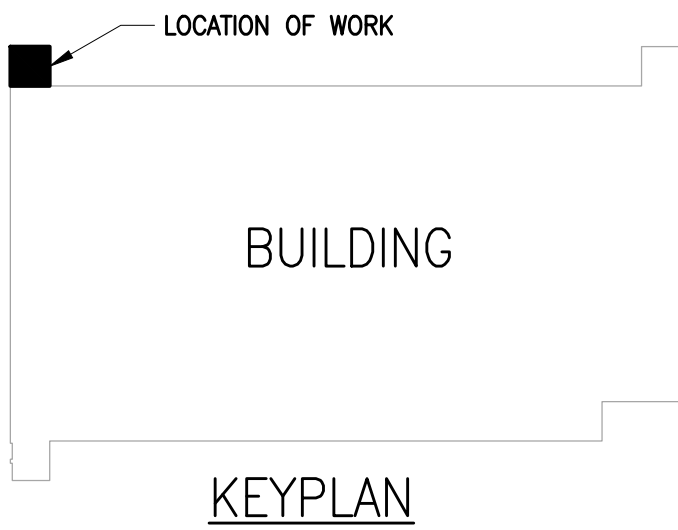
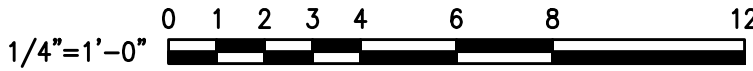


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PLUMBING PLAN

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



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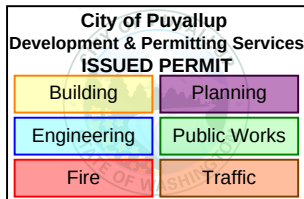
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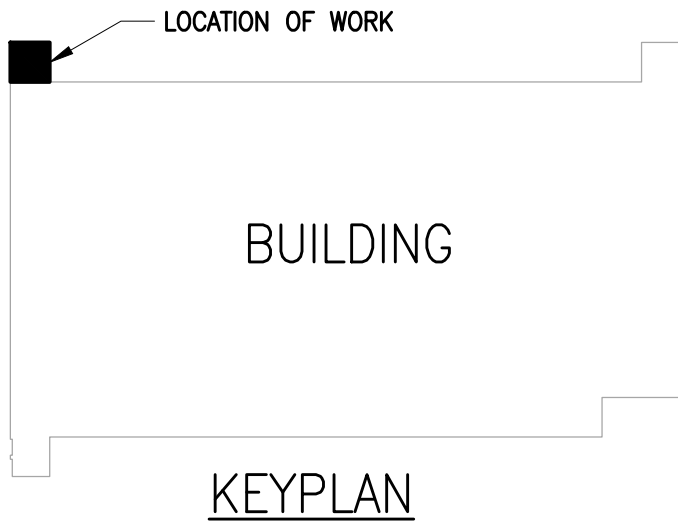
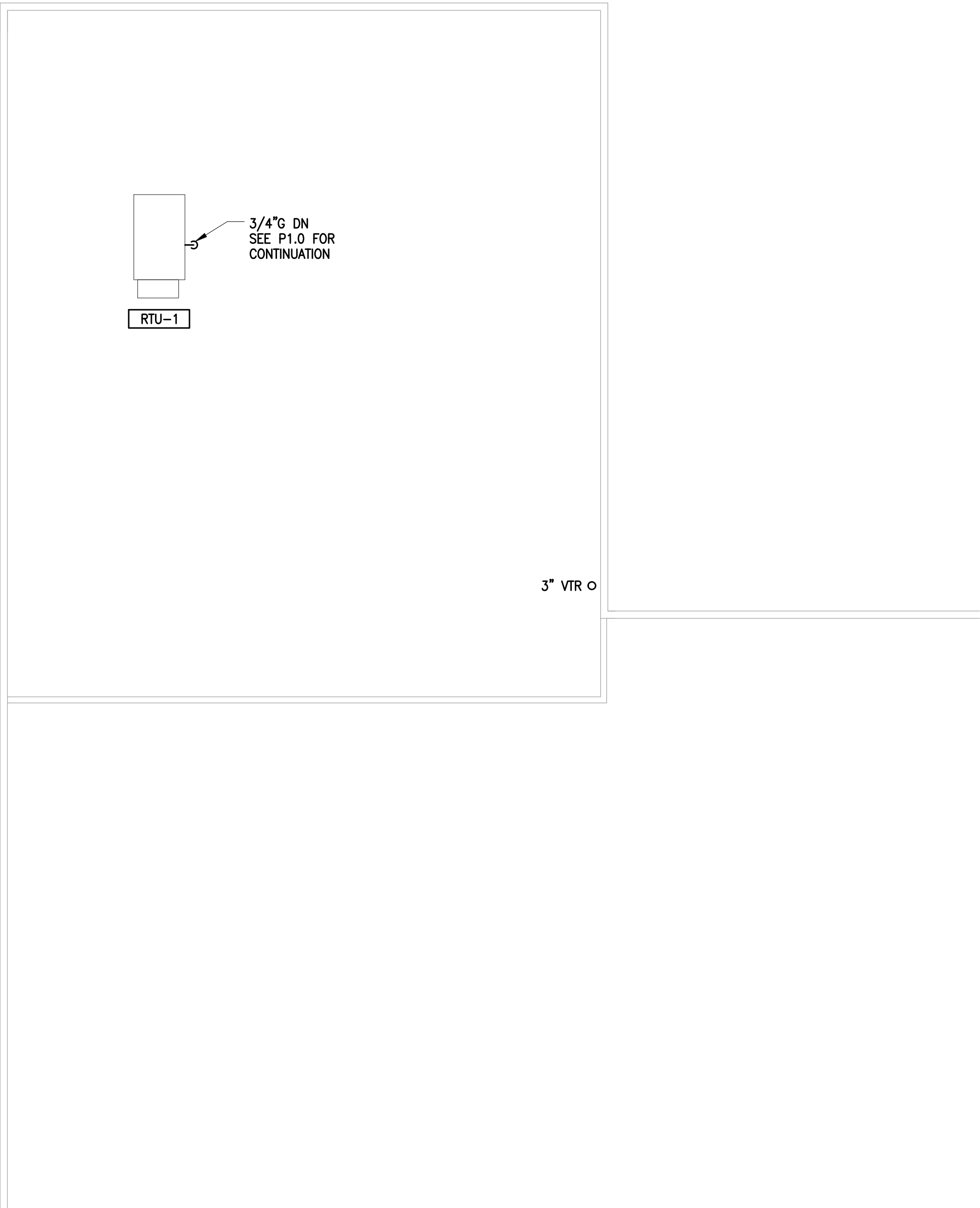
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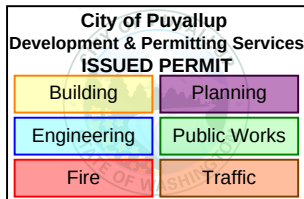
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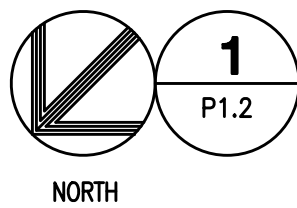
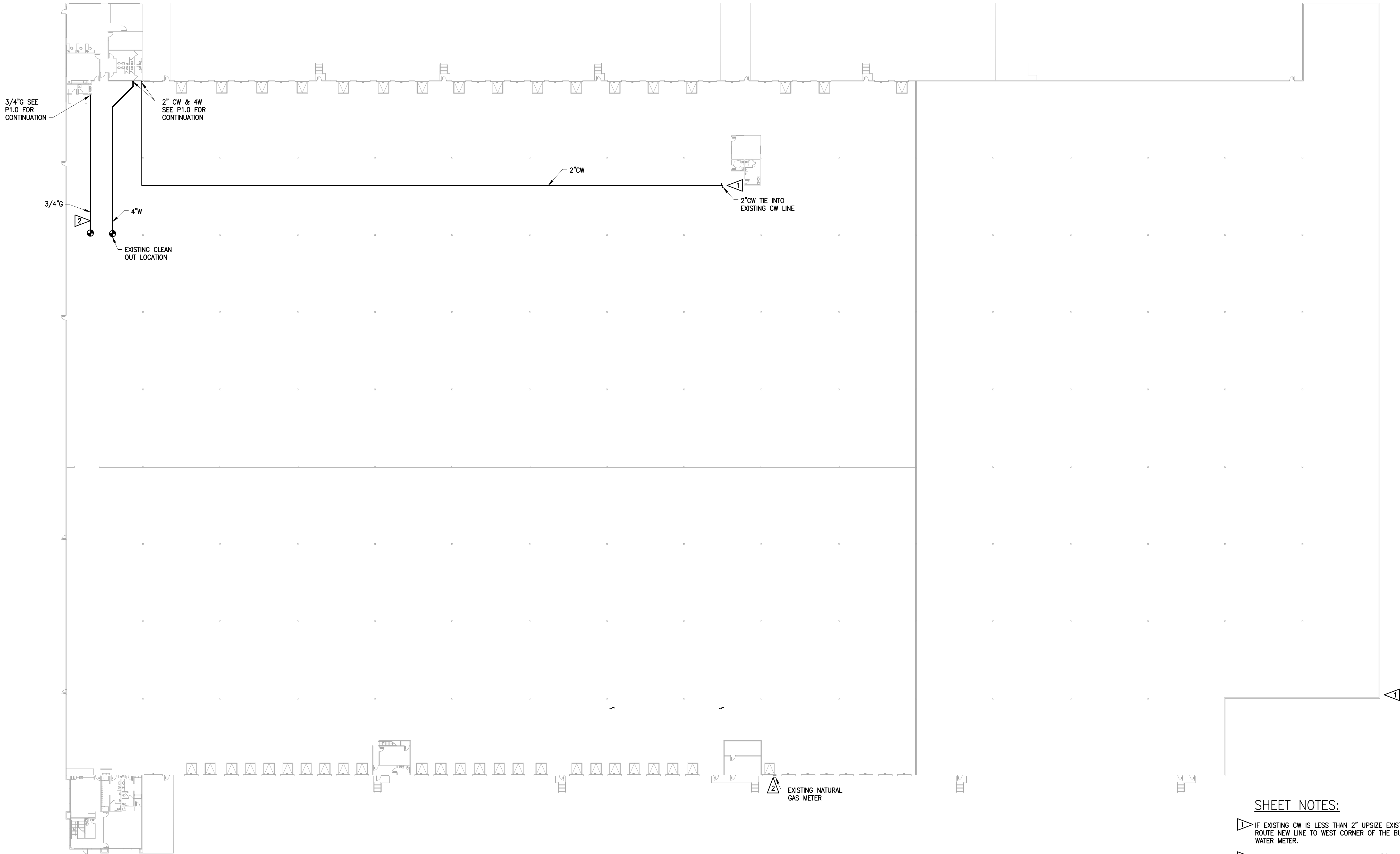
PLUMBING ROOF PLAN

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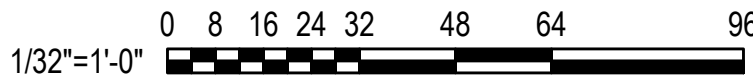
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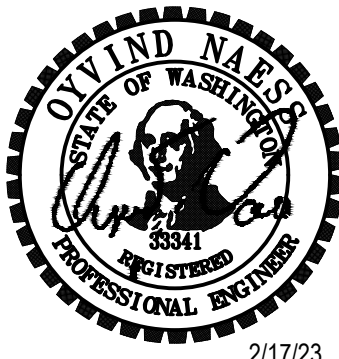
1 PLUMBING OVERALL PLAN

P1.2 SCALE: 1/32" = 1'-0"



SHEET NOTES:

- 1 IF EXISTING CW IS LESS THAN 2" UPSIZE EXISTING CW TO MAIN OR ROUTE NEW LINE TO WEST CORNER OF THE BUILDING NEAR THE WATER METER.
- 2 GAS LINE SIZED PER UPC TABLE 1216.2(4). SIZING IS BASED ON DISTANCE FROM RTU TO GAS METER (1300 FT). CONTRACTOR TO VERIFY IF EXISTING WAREHOUSE GAS LINES HAVE ENOUGH CAPACITY TO TIE IN RTU GAS LINE. IF EXISTING PIPING IS SIZED TOO SMALL, CONTRACTOR TO UPSIZE EXISTING PIPING OR RUN NEW LINE TO PIPING WITH ENOUGH CAPACITY.



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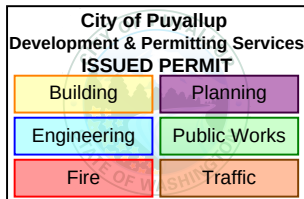
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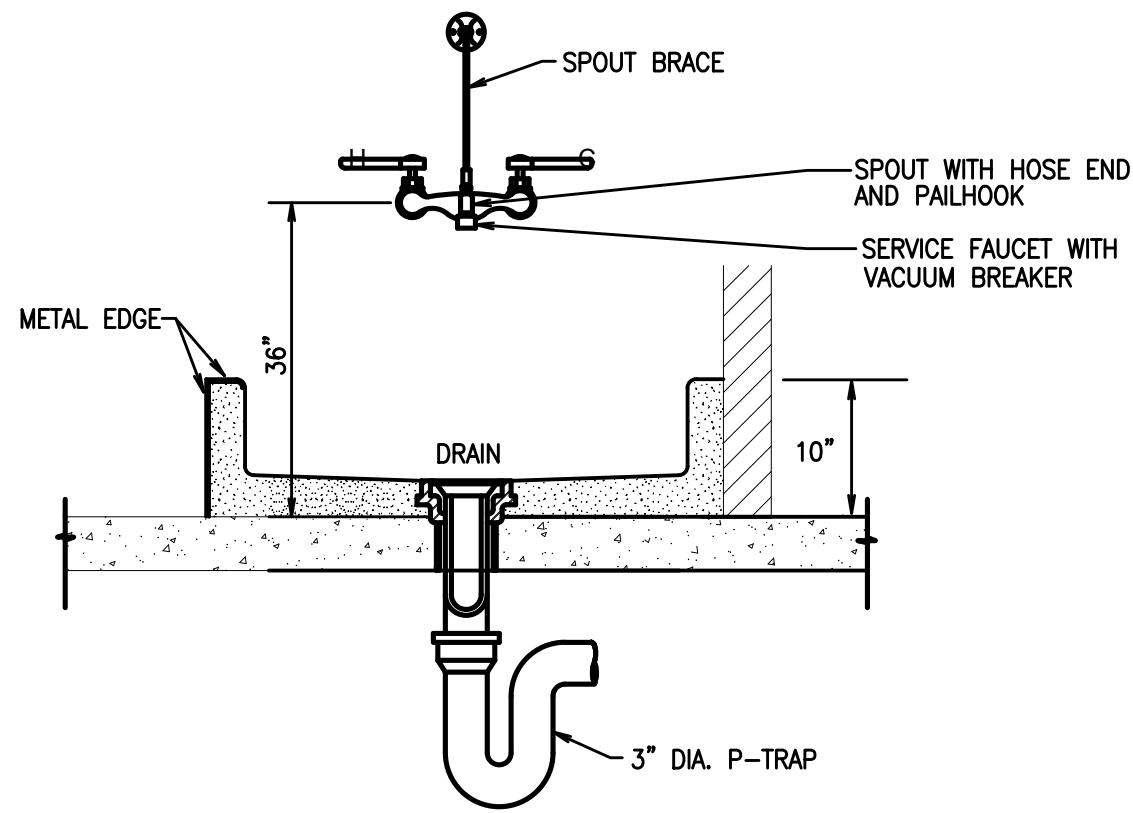
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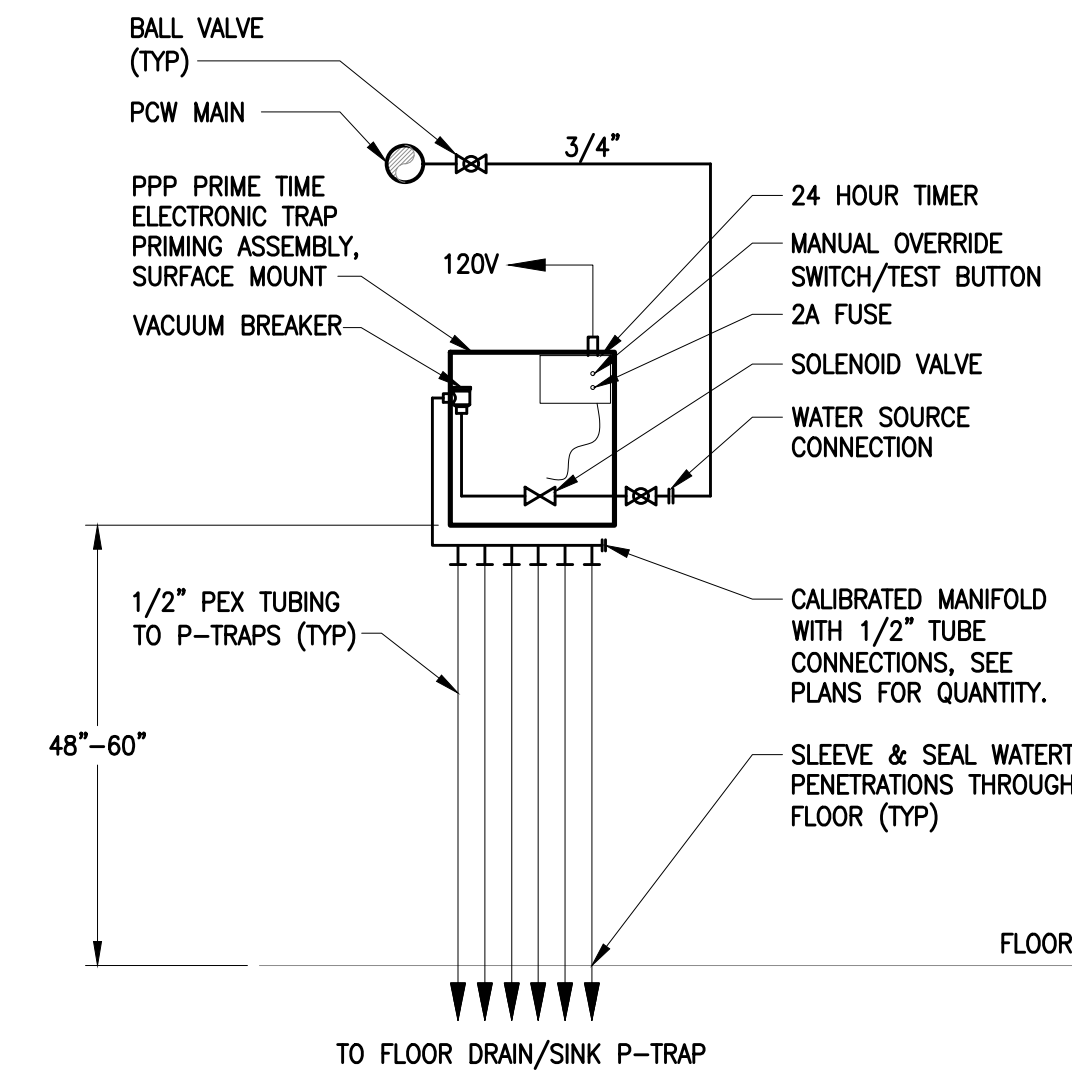
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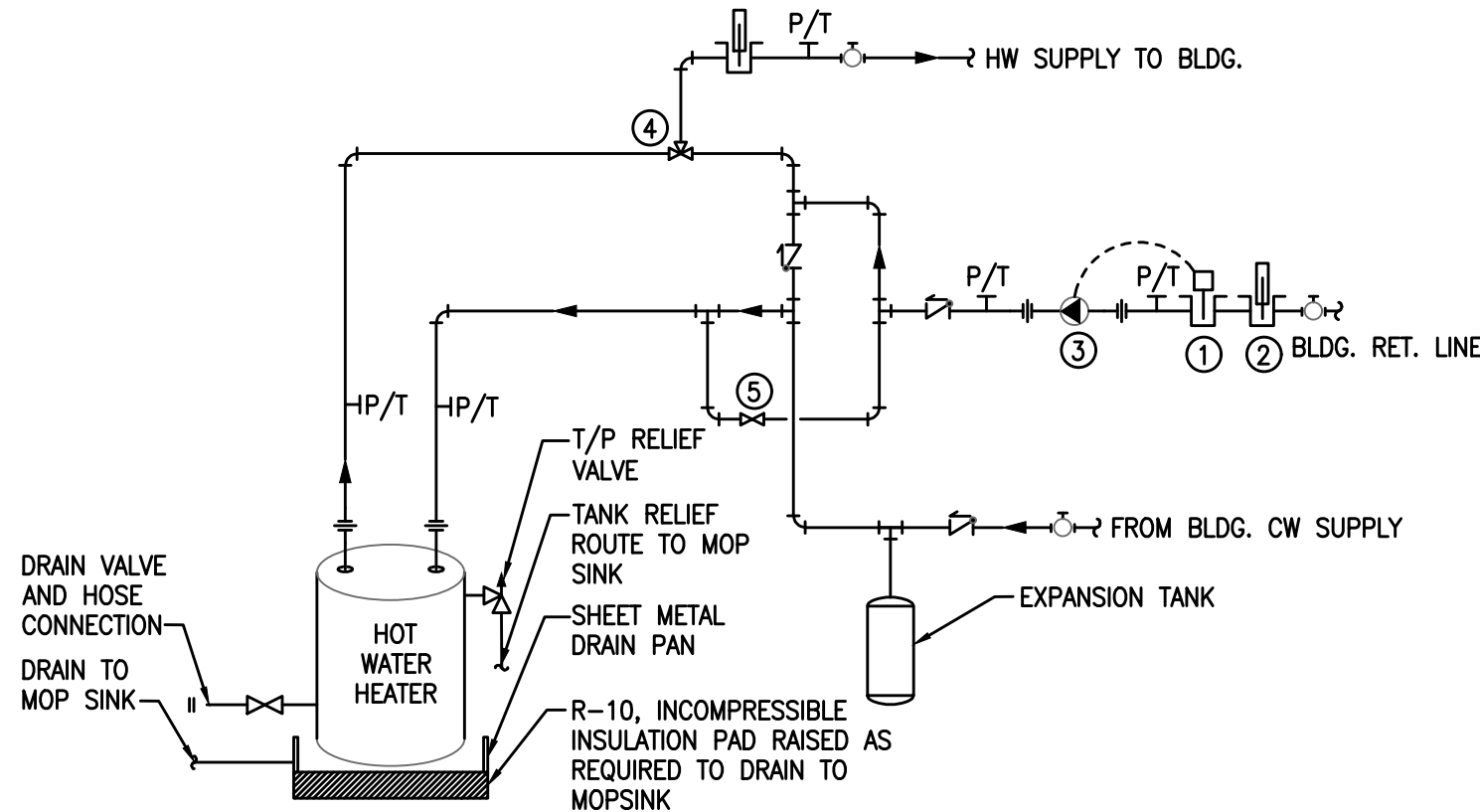
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1 MOP SINK
SCALE: NTS



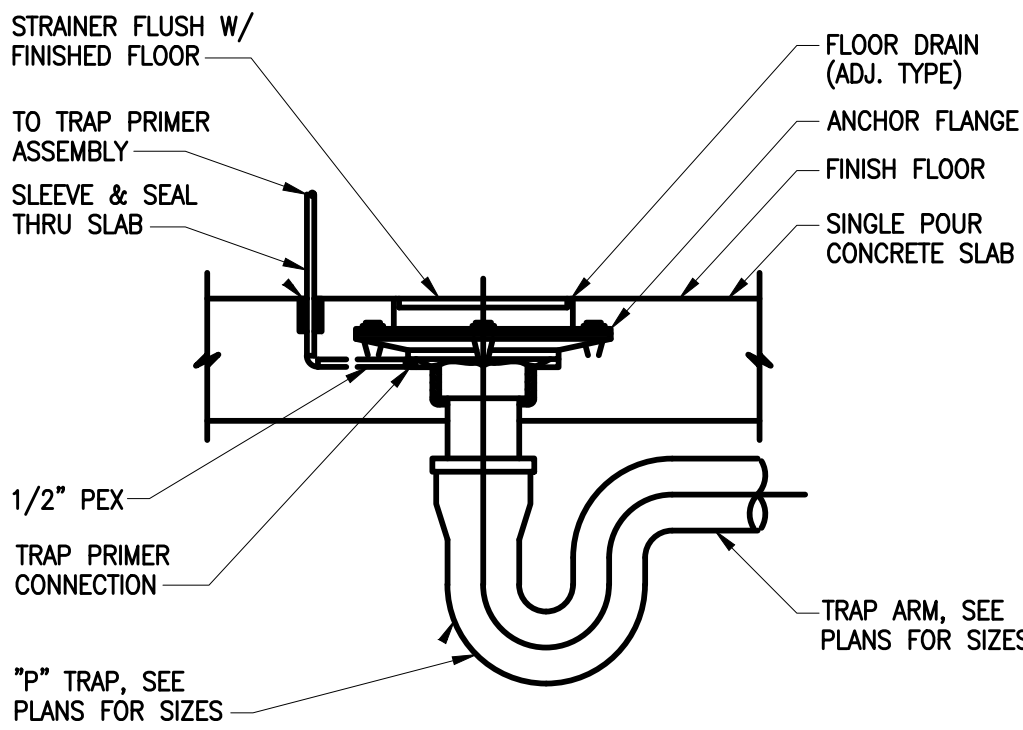
4 PRIME-TIME ELECTRONIC TRAP PRIMMIG ASSEMBLY DETAIL
SCALE: NONE



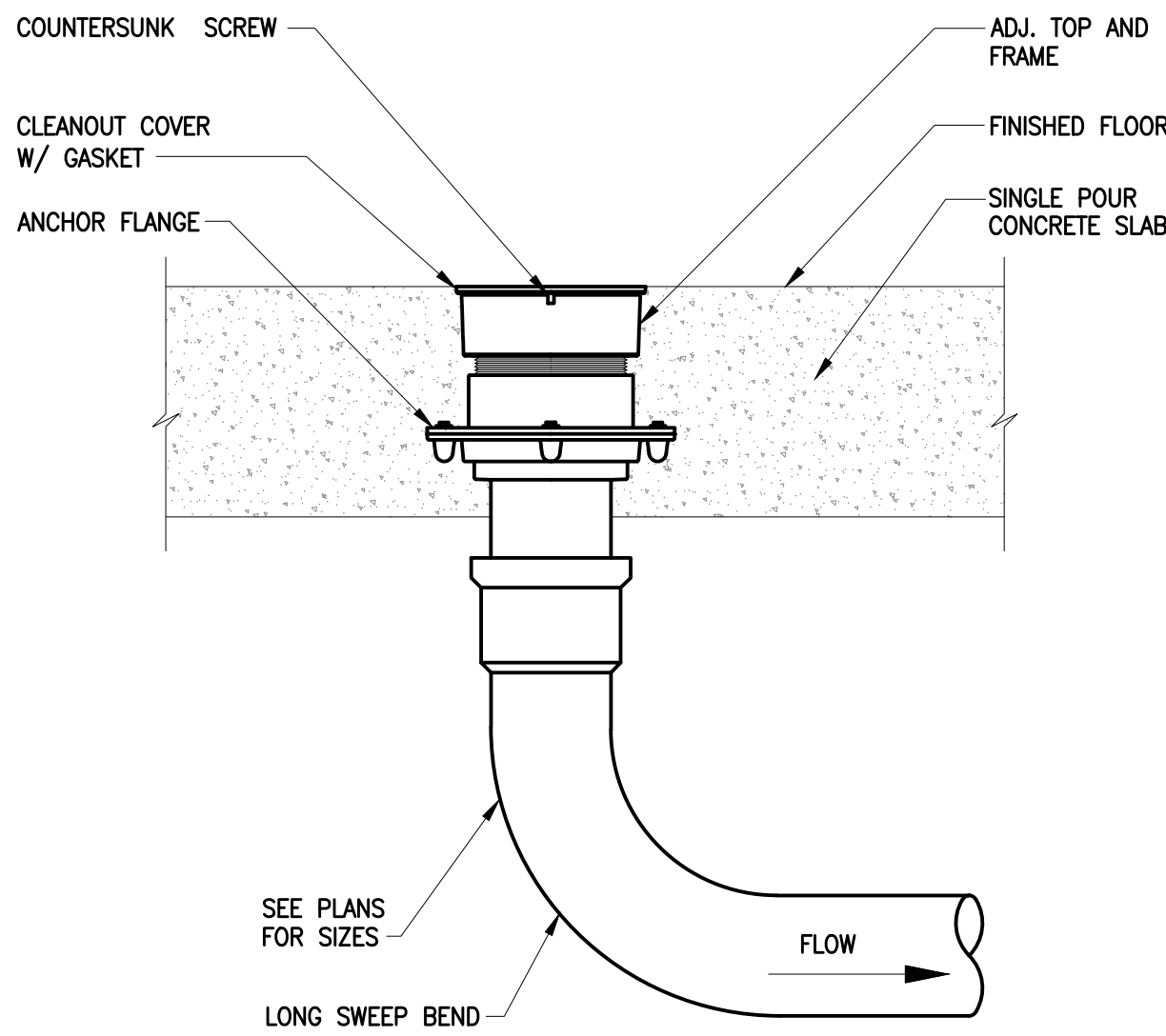
NOTES:

- AQUASTAT SET TO TURN ON CIRC PUMP AT 115°F. TURN OFF AT 120°F. TIMER SET TO OPERATE 24 HOURS.
- TEMPERATURE INDICATOR. 40°F TO 160°F, MIN. OPERATING RANGE.
- CIRCULATING PUMP. SEE PUMP OR FIXTURE SCHEDULE.
- TEMPERATURE CONTROL VALVE, SET TO 120°F.
- NO LOAD BALANCE GLOBE VALVE. SET-UP AS FOLLOWS:
 - WITH VALVE CLOSED. SET TEMPERATURE CONTROL VALVE TO 120°F WITH WATER FLOWING FROM TEMPERED WATER LINE.
 - AFTER OBTAINING DESIRED TEMPERATURE STOP WATER FLOW.
 - CRACK THE BALANCE VALVE OPEN SO THAT A SMALL AMOUNT OF WATER IS RETURNED TO THE WATER HEATER. THIS ALLOWS THE TEMPERATURE CONTROLLER TO MAINTAIN THE SET TEMPERATURE DURING PERIODS OF NO DRAW ON THE SYSTEM.
 - WITH NO DRAW. OBSERVE THE TEMPERATURE INDICATOR AT THE DISCHARGE OF THE TEMPERATURE CONTROLLER. IF THE TEMPERATURE INCREASES ABOVE THE SETTING IN STEP A. CLOSE THE BALANCE VALVE SLIGHTLY. IF TEMPERATURE DECREASES, OPEN IT SLIGHTLY.
- SEE PLAN DRAWING FOR LINE SIZES.

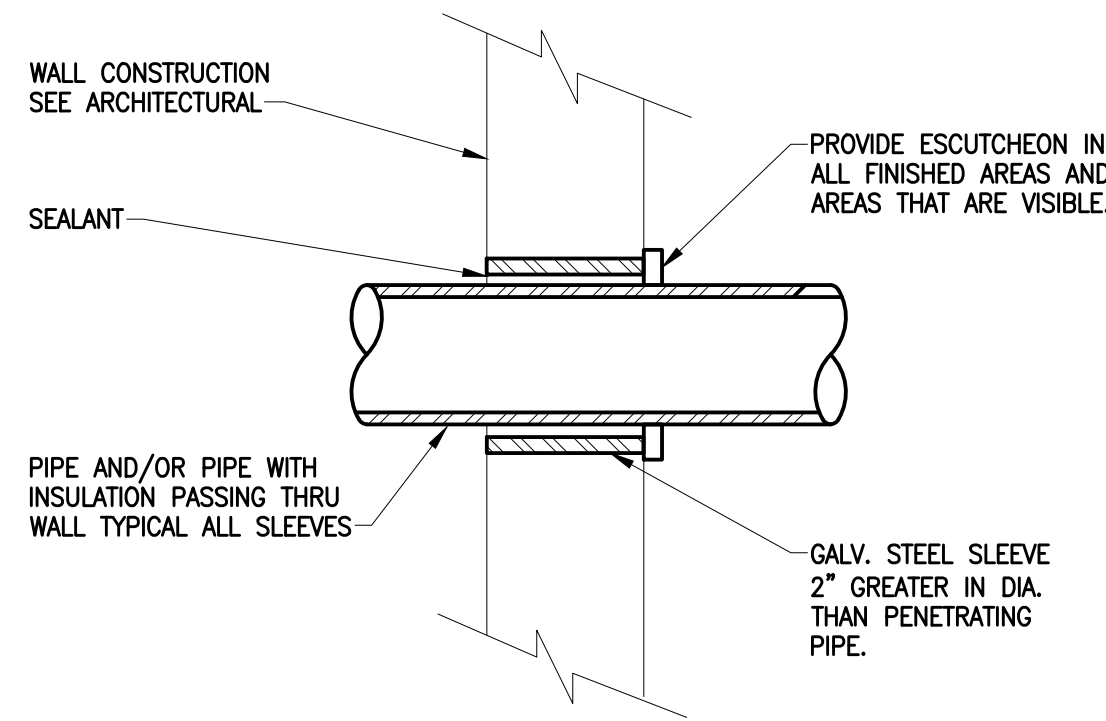
7 HOT WATER & CIRCULATION PUMP (HIGH TEMP. STORAGE)
SCALE: NTS



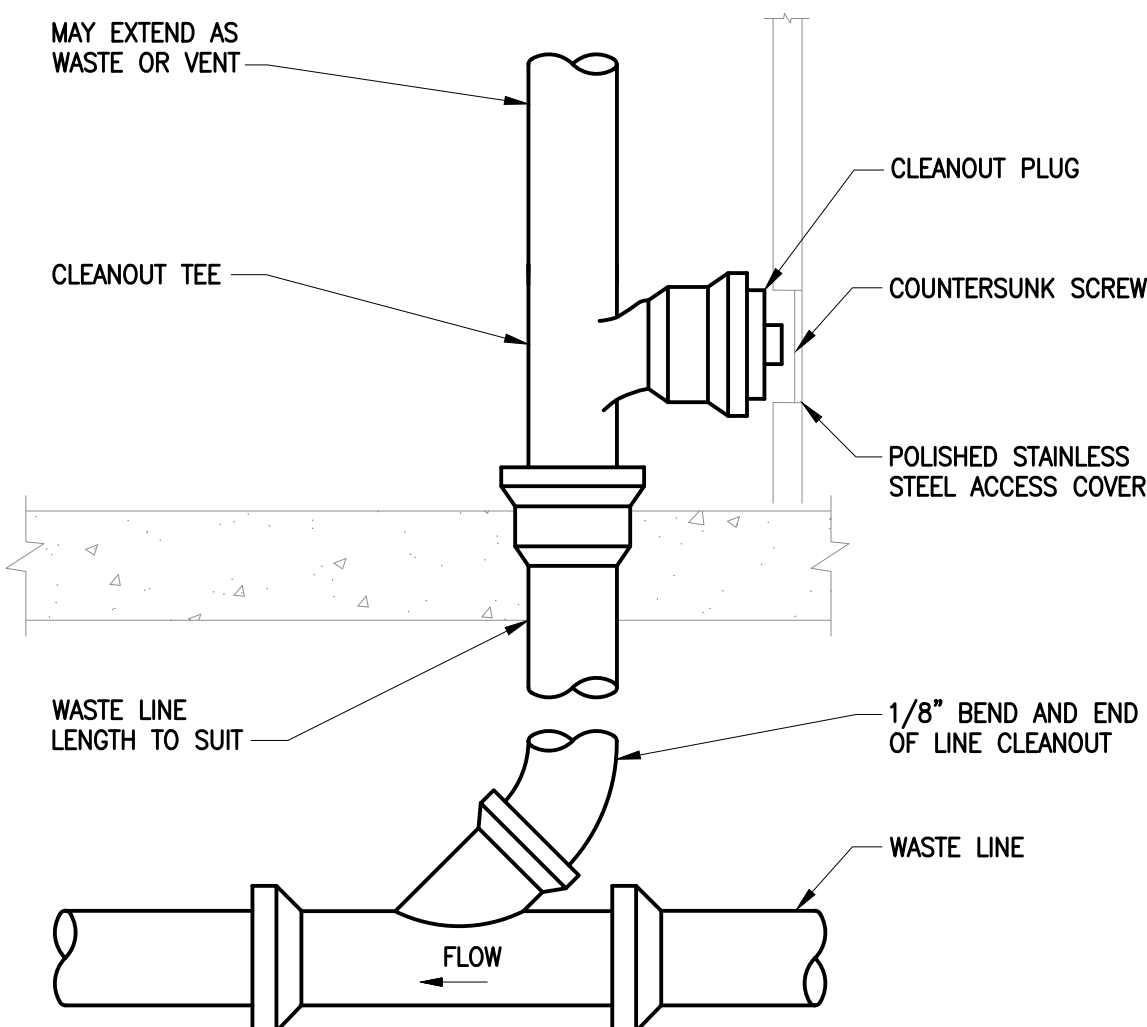
2 FLOOR DRAIN WITH TRAP PRIMER DETAIL
SCALE: NONE



5 FLOOR CLEANOUT DETAIL
SCALE: NONE



3 SLEEVE FOR PIPING THRU INTERIOR WALL
SCALE: NONE



6 WALL CLEANOUT (WCO) DETAIL
SCALE: NONE

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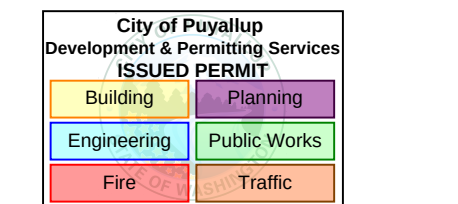
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