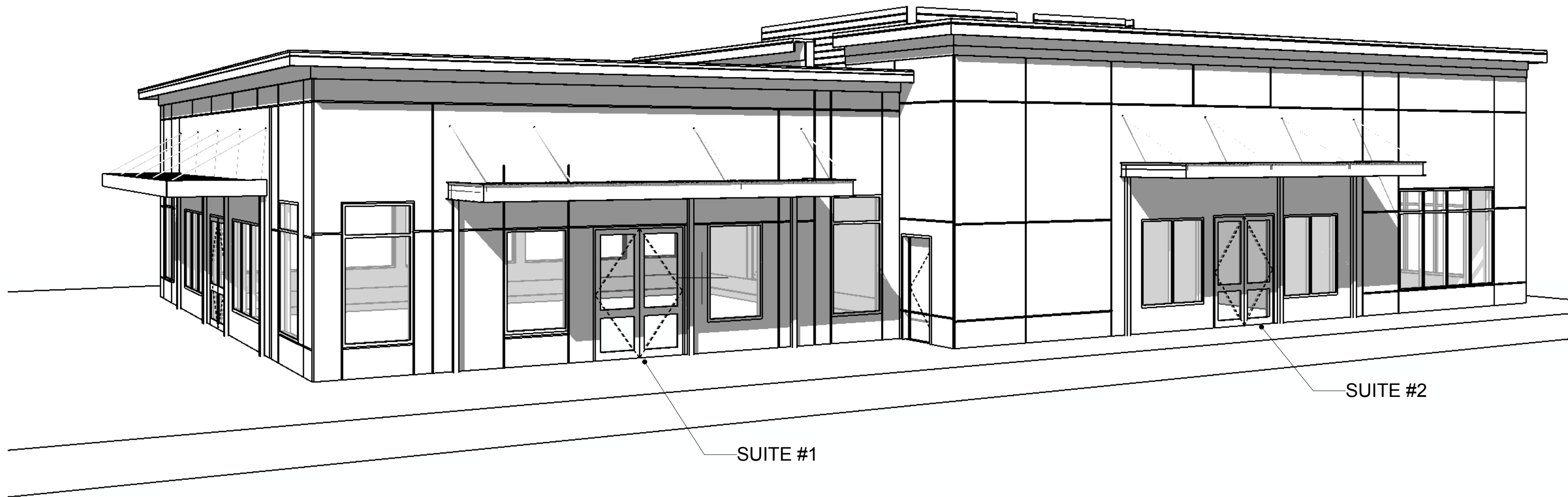


# EAST TOWN CROSSING

## COMMERCIAL LOT 1 - SUITE 2 T.I.



Since sheet AG1.0 SITE PLAN, was not included in the construction plan set, provide the minimum site information including address (727 SHAW RD, Unit B, PUYALLUP, WA 98372) and tax parcel number (APN 0420264071) on sheet AG1.1 COVER SHEET.

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### PROJECT TEAM

#### OWNER:

ASH DEVELOPMENT, LLC  
PUYALLUP, WA  
c/o: GREG HELLE  
253-318-5711  
greg.helle@absherco.com

#### ARCHITECT :

SYNTHESIS 9, LLC  
TACOMA, WA  
c/o: BRETT LINDSAY  
253-468-4117  
blindsay@synthesis9.com

#### CIVIL ENGINEER:

AHBL, INC.  
TACOMA, WA  
c/o:TODD SAWIN  
253-383-2422  
tsawin@ahbl.com

#### PLUMBING & MECHANICAL & LIGHTING

ROBISON ENGINEERING INC.  
LYNNWOOD, WA 98036  
c/o: JON ROBISON  
206-364-3343  
jrobison@robisonengineering.com

#### FIRE SPRINKLERS

SPRINX FIRE PROTECTION, INC.  
c/o: JOE FAULKNER  
253-853-7780  
joe@sprinxfire.com

#### TENANT #2 FRANCHISE OWNER

SIERRA TANGO 1, LLC  
HOTWORX AUBURN WA  
AUBURN WA  
c/o: WIL JOHNSTON  
253-330-8468  
william.johnston@hotworx.net

### PROJECT SCOPE

THE OVERALL ARCHITECTURAL SCOPE OF THIS PROJECT IS THE TENANT IMPROVEMENT FOR SUITE 2.

City of Puyallup  
Planning  
Division  
APPROVED

See permit  
conditions.

JHulseLew  
12/19/2025  
4:06:09 PM



### GENERAL PROJECT NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE CONTENT OF THESE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS
- IN THE EVENT THE CONTRACTOR FINDS A CONFLICT OR DISCREPANCY WITH THESE DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN WRITING. SHOULD THE CONTRACTOR PROCEED WITHOUT NOTIFYING THE ARCHITECT OF SUCH CONFLICT, THE CONTRACTOR SHALL BE PROCEEDING AT HIS OWN RISK & ASSOCIATED LIABILITY.
- THESE DRAWINGS SERVE TO REPRESENT DESIGN INTENT AS DIRECTED BY THE OWNER & COMPLIANT WITH GOVERNING JURISDICTIONAL LAW. IN NO WAY SHALL THESE DRAWINGS SERVE TO DICTATE METHODS OF CONSTRUCTION RELATIVE TO ADHERENCE TO EITHER. IT IS THE CONTRACTOR'S & OWNER'S RESPONSIBILITY TO WORK WITHIN THE PARAMETERS OF THE AGENCY APPROVED DOCUMENTS TO MAINTAIN THE INTEGRITY OF THE DESIGN INTENT AND AGENCY COMPLIANCE. ANY ERRORS, OMISSIONS OR NONCOMPLIANCE WITH GOVERNING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF ALL SHEAR WALLS, ROOF AND FLOOR DIAPHRAGMS AND FINISHED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE ABOVE MENTIONED COMPONENTS.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- SPECIAL INSPECTION SHALL BE PROVIDED BY AND INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS REQUIRED FOR ALL EQUIPMENT, APPLIANCES, FIXTURES, CABINETS, DUCTWORK AND OPENINGS BEFORE FRAMING BEGINS. THE CONTRACTOR SHALL COORDINATE WITH THE SUBCONTRACTORS OF ALL TRADES TO VERIFY THE SIZES AND LOCATIONS OF OPENINGS THROUGH THE FLOORS, WALLS, CEILINGS AND ROOFS FOR DUCTS, PIPES, CONDUITS AND EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF WOOD BACKING, BLOCKING, FURRING AND STRIPPING AS REQUIRED FOR THE INSTALLATION AND ATTACHMENT OF WORK OF ALL TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SYSTEMS, INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING, ELECTRICAL WORK. WORK SHOWN IN THE DRAWINGS IS INTENDED TO ILLUSTRATE THE GENERAL DESIGN INTENT, SCOPE AND LOCATION OF WORK. ALL WORK NOT SPECIFICALLY DRAWN, BUT REQUIRED FOR A COMPLETE, LEGAL AND FUNCTIONING SYSTEM, SHALL BE PROVIDED AS PART OF THE WORK.
- SAFEGUARDS DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE.

### SYMBOL LEGEND

#### DETAIL SYMBOL

1 — DETAIL NO. OR LETTER  
A2.0 — SHEET

#### SECTION SYMBOL

1 — DETAIL NO. OR LETTER  
A2.0 — SHEET

#### INTERIOR ELEVATION SYMBOL

2 — DRAWING NUMBER  
A4.0 — SHEET

#### DOOR I.D. SYMBOL

100A — DOOR NUMBER  
REFER TO SHEET A4.0.

#### ROOM I.D. SYMBOL

ROOM — ROOM NAME  
100 — ROOM NUMBER

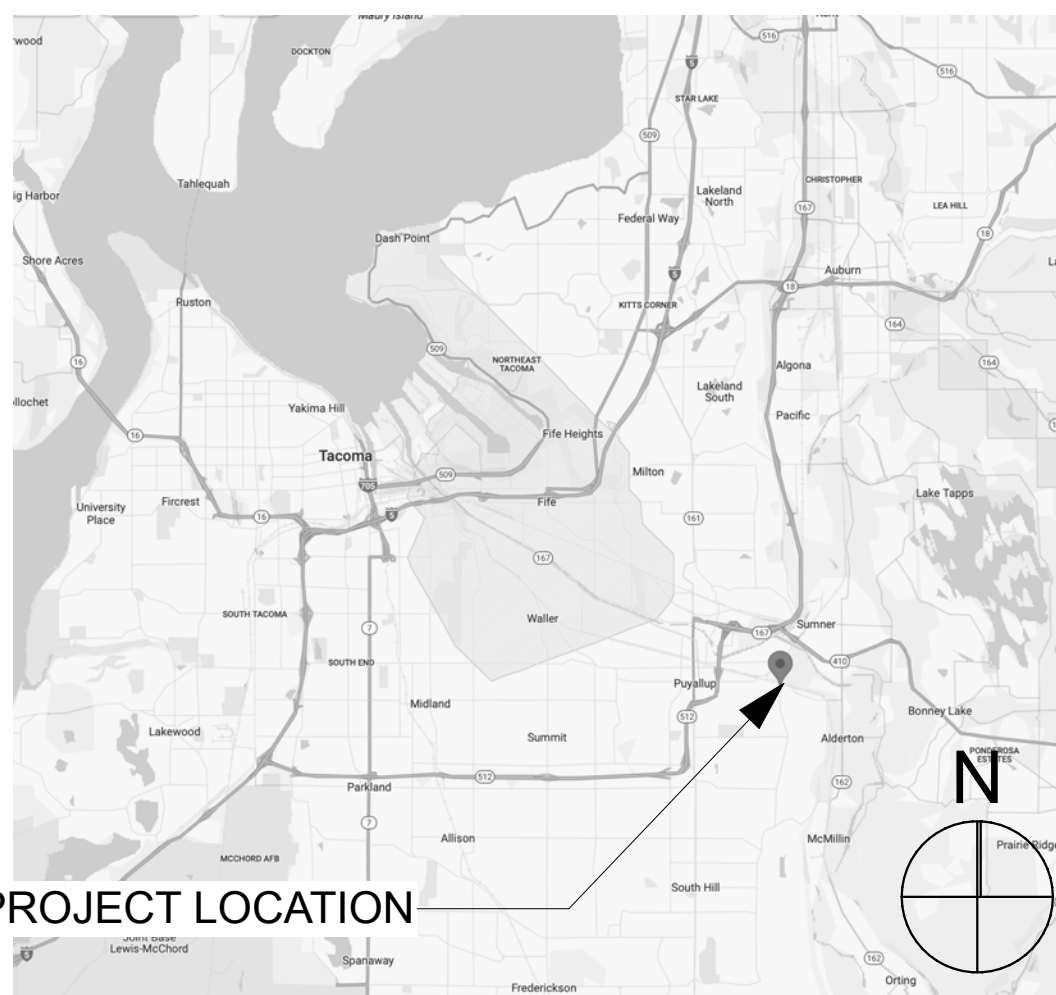
#### WALL TYPE SYMBOL

1A — WALL TYPE NO.  
REFER TO SHEET A1.0

#### EXTERIOR WINDOW TYPE SYMBOL

# — WINDOW TYPE NUMBER

### VICINITY MAP (NOT TO SCALE)



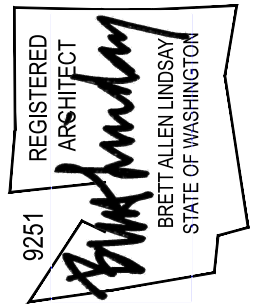
### PROJECT LOCATION

AGENCY REVIEW | 25.11.25



SYNTHESIS 9, LLC  
632 N. D ST.  
TACOMA, WA 98403

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EAST TOWN CROSSING  
COMMERCIAL LOT 1 - SUITE 2 T.I.  
727 SHAW ROAD PUYALLUP WA

#### REVISIONS

NO.	DESCRIPTION	DATE

#### REVISIONS

DRAWN BY: CM / BL  
CHECKED BY: BL  
DATE: 25.11.25  
TITLE: COVER SHEET  
PROJECT #: 2016-L1  
SHEET:

AG1.1



PLUMBING FIXTURE REQUIREMENTS

SUITE	OCCUPANCY	OCCUPANT LOAD	MALE WC	FEMALE WC	MALE LAV
1	A-2	400 BASED ON ASSUMED NET AREA	1 PER 100		1 PER 100
			1	1	1
2	B	14	1 per 25 for first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for first 80 and 1 per 80 for remainder exceeding 80
			1	1	1

PLUMBING FIXTURE SUMMARY

2902.5.1 Drinking fountain number. Occupant loads over 30 shall have one drinking fountain for the first 150 occupants, then one per each additional 500 occupants.  
\*\* NONE REQUIRED.

EXCEPTION: A drinking fountain need not be provided in a drinking or dining establishment.

2902.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.  
EXCEPTIONS: 1. Separate facilities shall not be required for dwelling units and sleeping units.  
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or less.  
3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or less.  
4. Separate facilities shall not be required in spaces primarily used for drinking or dining with a total occupant load, including both employees and customers, of 30 or fewer.  
5. Separate facilities shall not be required when gender-neutral facilities are provided in accordance with Section 2902.2.2.

2902.2.2 Gender-neutral facilities. Gender-neutral toilet facilities, when provided, shall be in accordance with the following:  
1. There is no reduction in the number of fixtures required to be provided for male and female in the type of occupancy and in the minimum number shown in Table 2902.1.  
2. Gender-neutral multiuser toilet rooms shall have water closets and urinals located in toilet compartments in accordance with ICC A117.1.  
3. Gender-neutral multiuser toilet room water closet and urinal compartments shall have full-height walls and a door enclosing the fixture to ensure privacy.  
4. Gender-neutral toilet room water closet and urinal compartment doors shall be securable from within the compartment.  
5. Gender-neutral toilet rooms provided for the use of multiple occupants, the egress door from the room shall not be lockable from the inside of the room.  
6. Compartments shall not be required in a single-occupant toilet room with a lockable door.

W.S.E.C. BUILDING ENVELOPE SUMMARY

ZONE	4C - MARINE
PATH	TOTAL BUILDING PERFORMANCE **REFER TO BUILDING ENERGY MODEL IN SEPARATE DOCUMENT
ROOFS - ATTIC AND OTHER FENESTRATION	R-VALUE = 30
FENESTRATION SHGC	U-FACTOR = PER A4.0
SKYLIGHTS	PER A4.0
WOOD FRAMED WALLS	U-FACTOR = N/A
MASS WALL R-VALUE	R-VALUE = 21 INT
FLOOR	N/A
SLAB, R-VALUE & DEPTH	R-VALUE: 30 10, 2-FT

APPLICABLE 2021 WSEC BUILDING ENVELOPE NOTES :

1. AN IDENTIFICATION MARK SHALL BE APPLIED TO ALL INSULATION MATERIALS PER C303.1.
2. ALL FENESTRATION PRODUCTS SHALL BE LABELED WITH RATED U-FACTOR, SHGC, VT, LEAKAGE RATING PER C303.1.3 AND C402.4.3.
3. PROJECT CLOSE OUT DOCUMENTATION IS REQUIRED INCLUDING APPLICABLE CALCULATIONS, WSEC ENVELOPE COMPLIANCE REPORTS, AND FENESTRATION NFRC RATING CERTIFICATES PER C103.6.3.

Remove information that is not applicable to the tenant space.

( Construction Set, AG1.2)

BUILDING SUMMARY

OCCUPANCY:  
TENANT #1: A2: ASSEMBLY OPTION (NYD)  
TENANT #1: M: MERCANTILE OPTION (NYD)  
TENANT #2: B: OFFICE (EXERCISE WITH LESS THAN 50 OCCUPANTS)

TYPE OF CONSTRUCTION: VB  
SEPARATED OCCUPANCIES: NO  
FIRE SPRINKLERS: YES, PER NFPA 13  
FIRE ALARM SYSTEM AND SMOKE ALARM: YES  
ELEVATOR: NO  
NUMBER OF TENANT SPACES: 2

'A2' OCCUPANCY (TENANT #1 OPTION - NYD)  
BASE ALLOWABLE BUILDING AREAS, HEIGHT AND STORIES:  
( 'A2' OCCUPANCY MOST RESTRICTIVE)

ALLOWABLE AREA PER FLOOR: 24,000 sq ft  
ALLOWABLE MAXIMUM HEIGHT: 60 ft  
ALLOWABLE STORIES: 2

'M' OCCUPANCY (TENANT #1 OPTION - NYD)  
BASE ALLOWABLE BUILDING AREAS, HEIGHT AND STORIES:

ALLOWABLE AREA PER FLOOR: 36,000 sq ft  
ALLOWABLE MAXIMUM HEIGHT: 60 ft  
ALLOWABLE STORIES: 2

'B' OCCUPANCY (TENANT #2)  
BASE ALLOWABLE BUILDING AREAS, HEIGHT AND STORIES:

ALLOWABLE AREA PER FLOOR: 36,000 sq ft  
ALLOWABLE MAXIMUM HEIGHT: 60 ft  
ALLOWABLE STORIES: 3

PROPOSED BUILDING AREAS, HEIGHT AND STORIES:

PROPOSED AREA PER FLOOR: LEVEL 1: 5103 sq ft  
PROPOSED HEIGHT: 22 ft  
PROPOSED STORIES: 1

CONDITIONED AREAS:

TENANT 1: 2,914 sq ft  
TENANT 2: 1,922 sq ft  
RISER ROOM: 74 sq ft

GROSS AREAS:

TENANT 1: 2,972 sq ft  
TENANT 2: 2,043 sq ft  
RISER ROOM: 88 sq ft  
TOTAL: 5,103 sq ft

OCCUPANT LOAD & EGRESS ANALYSIS

TENANT #1 (A2 - OPTION)  
USE: ASSEMBLY - UNCONCENTRATED TABLES & CHAIRS (ASSUMED)  
OCCUPANT LOAD FACTOR: 15 NET  
OCCUPANT LOAD: 2914/15 = 194  
NUMBER OF EXITS REQUIRED: 2  
MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 250-ft  
MAXIMUM COMMON PATH OF TRAVEL: 75-ft

TENANT #1 (M - OPTION)  
USE: MERCANTILE  
OCCUPANT LOAD FACTOR: 60 GROSS  
OCCUPANT LOAD: 2914/60 = 49  
NUMBER OF EXITS REQUIRED: 2  
MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 250-ft  
MAXIMUM COMMON PATH OF TRAVEL: 75-ft

TENANT #2  
USE: EXERCISE  
OCCUPANT LOAD FACTOR: 50 GROSS  
OCCUPANT LOAD: 12043/50 = 41  
NUMBER OF EXITS REQUIRED: 1  
MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 100-ft  
MAXIMUM COMMON PATH OF TRAVEL: 100-ft

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS PER IBC (2021) TABLES 601 AND 602:

PRIMARY STRUCTURAL FRAME:  
EXTERIOR BEARING WALLS: 0-HR  
INTERIOR BEARING WALLS: 0-HR  
NONBEARING EXTERIOR WALL AND PARTITIONS: 0-HR  
NONBEARING INTERIOR WALL AND PARTITIONS: 0-HR  
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0-HR  
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0-HR

LAND USE SUMMARY

P/N: 0420264021, LOT 1

JURISDICTION: CITY OF PUYALLUP

ZONING DESIGNATION:  
CG - GENERAL COMMERCIAL  
SHAW-EAST PIONEER OVERLAY

PARCEL AREA: 50,886 sq ft

SURROUNDING PARCELS: CG TO THE SOUTH AND EAST, CB ACROSS SHAW TO THE WEST, CMX ACROSS PIONEER TO THE NORTH

USE: RESTAURANT & RETAIL (PERMITTED)  
MINIMUM LOT AREA: NONE  
MINIMUM LOT WIDTH: 50 FT  
MINIMUM LOT DEPTH: 100 FT  
MINIMUM SETBACKS: 12 FT STREET, 0 FT SIDE, 0 FT REAR  
MAXIMUM SETBACK: 20 FT WITH PLAZA  
MAXIMUM HEIGHT: 50 FT (FOUR STORIES)  
MAXIMUM FLOOR AREA: F.A.R. 4.0  
MAXIMUM LOT COVERAGE: 75%

VEHICLE PARKING ANALYSIS FOR BOTH COMMERCIAL LOTS

STALL DIMENSIONS:  
STANDARD: 9'-x-20'- 8' x 18'  
COMPACT: 8'-x-17'- 7' x 15'

REQUIRED:  
1 STALL PER 300 sq ft GROSS RETAIL  
1 STALL PER 100 sq ft GROSS RESTAURANT

LOT 1:  
TENANT #1: 2972 sq ft/ 100 = 30  
TENANT #2: 2043 sq ft/ 300 = 7

TOTAL REQUIRED: 37  
ON-SITE VEHICLE STALLS PROVIDED: 37

COMPACT MIN.: 30% OF REQUIRED (37 x 0.3 = 11)  
COMPACT MAX.: 50% (37 x 0.5 = 19)  
COMPACT STALLS PROVIDED: 19

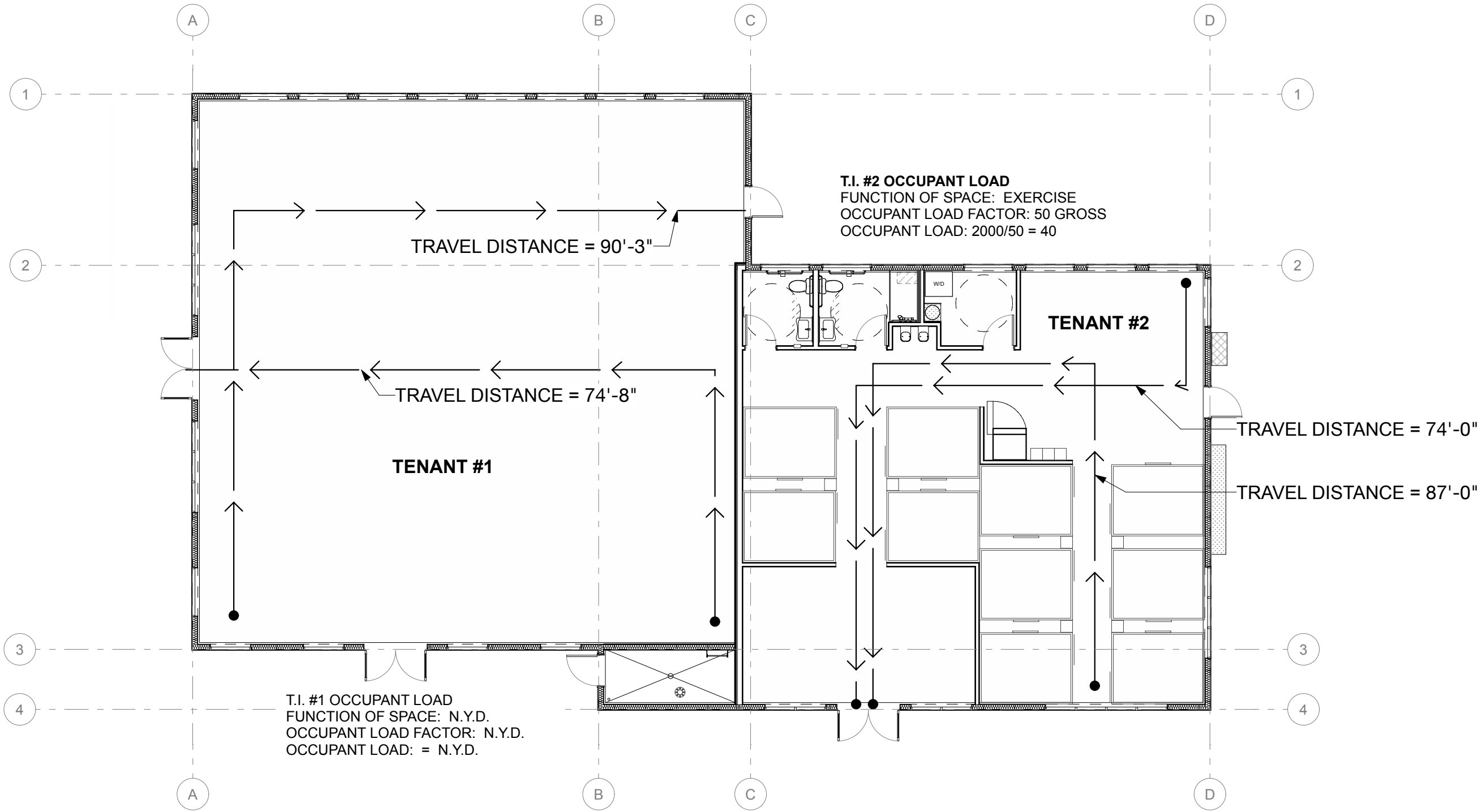
ACCESSIBLE STALLS REQ'D: 2 (1 MUST BE A VAN STALL)  
ACCESSIBLE STALLS PROVIDED: 2, WITH 1 VAN

ELECTRIC VEHICLE CHARGING INFRASTRUCTURE  
(PER SECTION 429 OF 2021 WABC)

REQUIREMENTS:  
EV CHARGING: 10% = 4 (10% MUST BE ADA)  
EV READY = 10% = 4 (10% MUST BE ADA)  
EV CAPABLE = 10% = 4

PROVIDED:  
EV CHARGING: 4 (1 PER ADA)  
EV READY: 4 (1 PER ADA)  
EV CAPABLE: 4

BICYCLE PARKING ANALYSIS  
SHORT-TERM BICYCLE PARKING:  
REQUIRED: 5 STALLS  
PROVIDED: 5



1 OCCUPANCY & EGRESS DIAGRAMS  
SCALE: 3/32" = 1'-0"

S9

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TACOMA, WA 98403

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REGISTERED ARCHITECT  
Bryan McKinley  
STATE OF WASHINGTON  
9251

EAST TOWN CROSSING  
COMMERCIAL LOT 1 - SUITE 2 T.I.  
727 SHAW ROAD PUYALLUP WA

REVISIONS

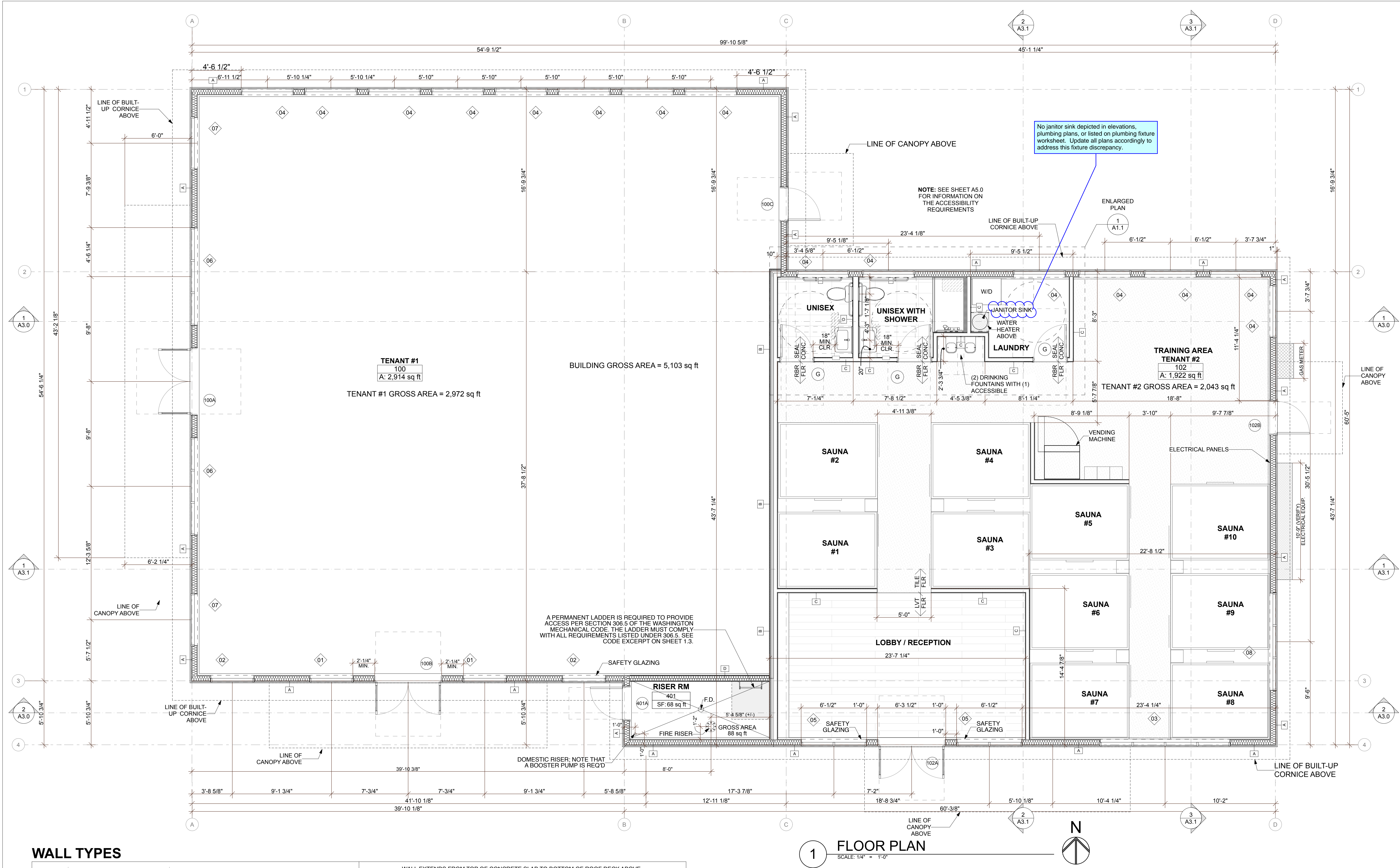
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CHECKED BY: BL  
DATE: 25.11.25  
TITLE: PROJECT INFORMATION  
PROJECT #: 2016-L1  
SHEET:

AG1.2

AGENCY REVIEW | 25.11.25







### Product Description

- Durable construction of cold rolled steel
- Includes hanger rods and hardware for easy installation
- Compatible with standard one-inch PVC drain fittings

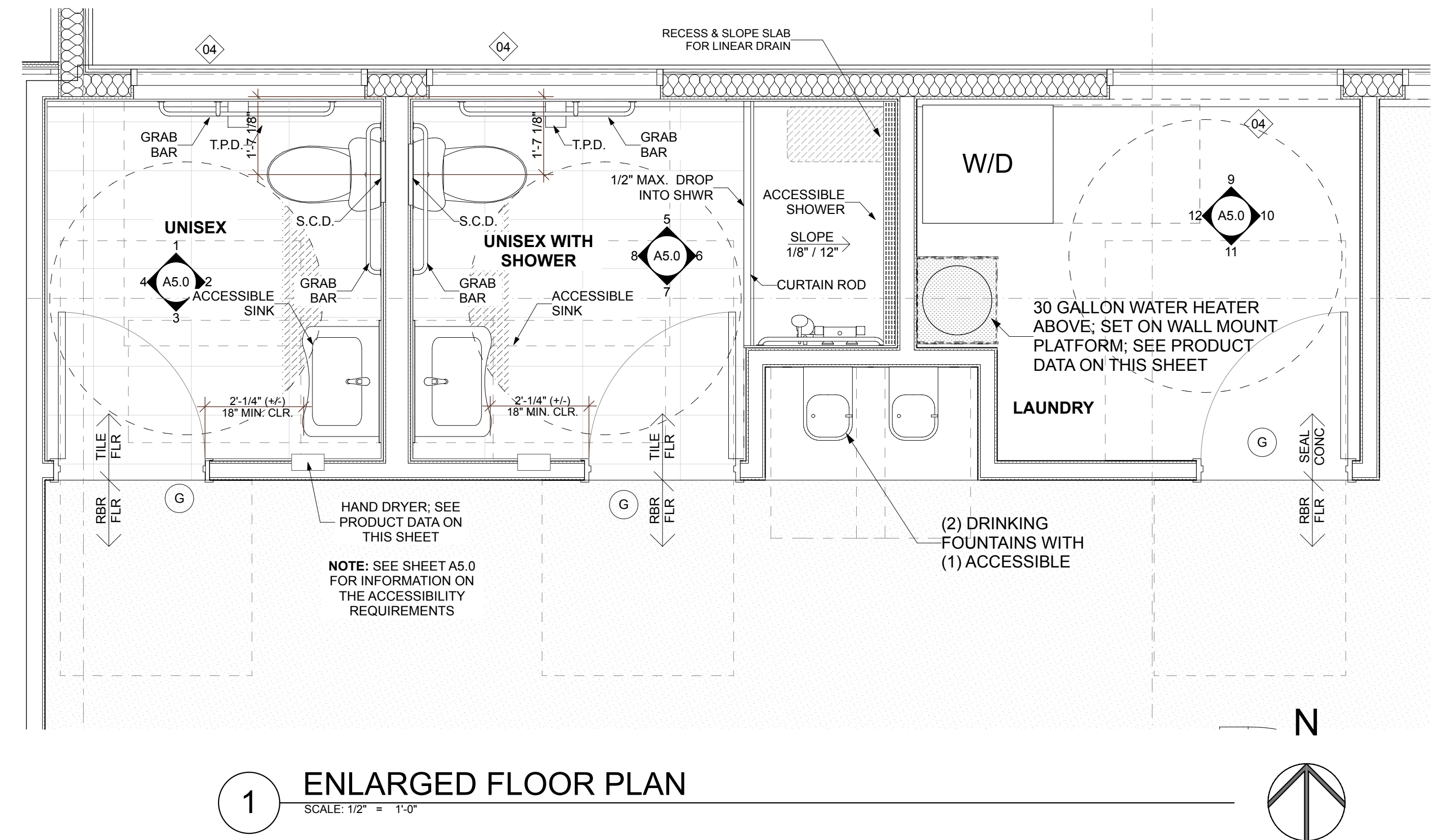
This platform is suitable for both residential and commercial applications, providing stable support for water heaters while ensuring safety and ease of maintenance.

### Standard Information

- **Brand:** HoldRite
- **MPN:** 50-SWHP-W

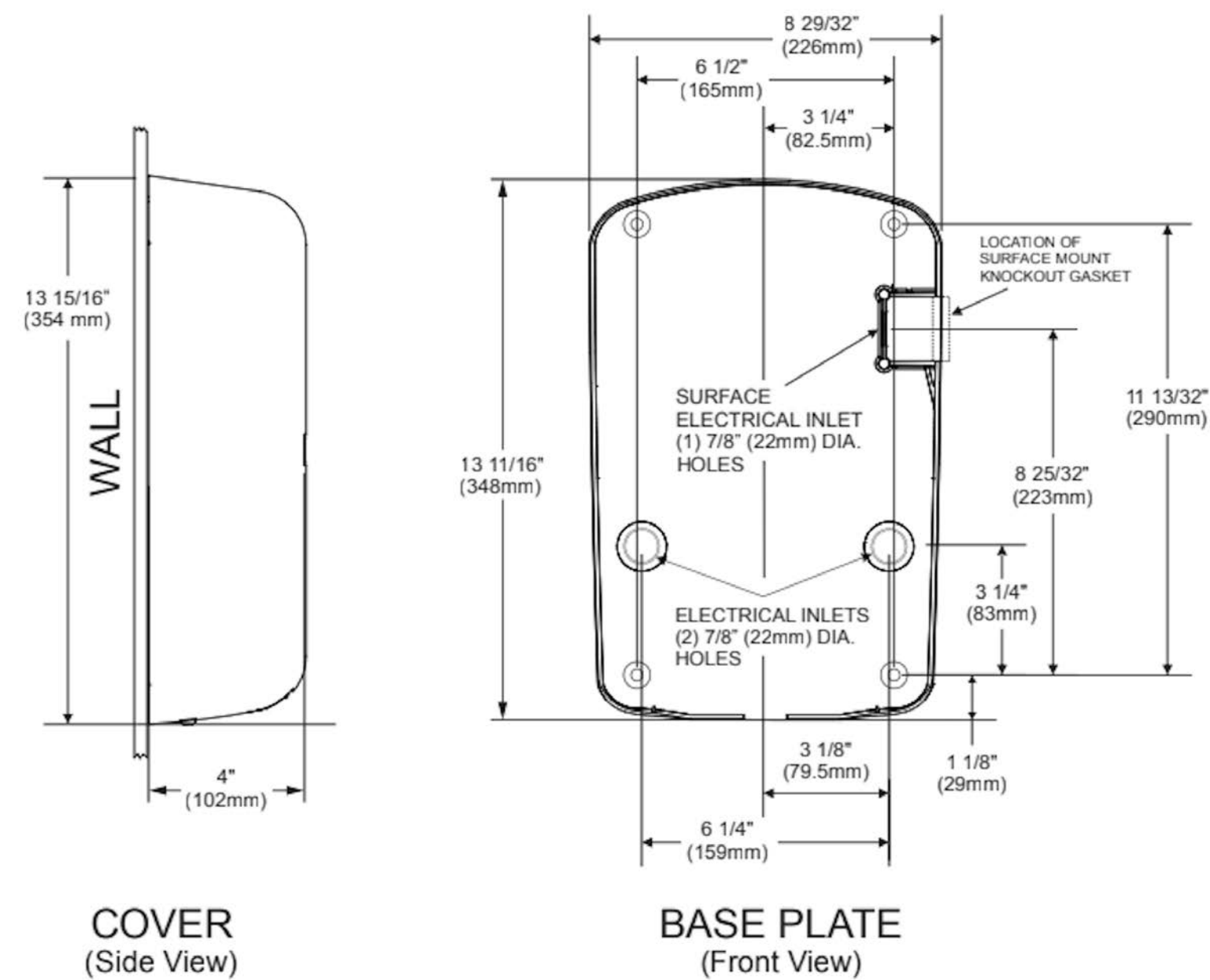
- **Material:** Cold Rolled Steel

- **Finish:** Galvanized
- **Size:** 26.5 inches width x 26.5 inches depth x 2.5 inches height
- **Load Capacity:** 50 gallons or 600 pounds
- **Applicable Standard:** BAA
- **Type:** Wall Mount, Suspended, Pre-Assembled, Square
- **Used On Item:** Water Heater

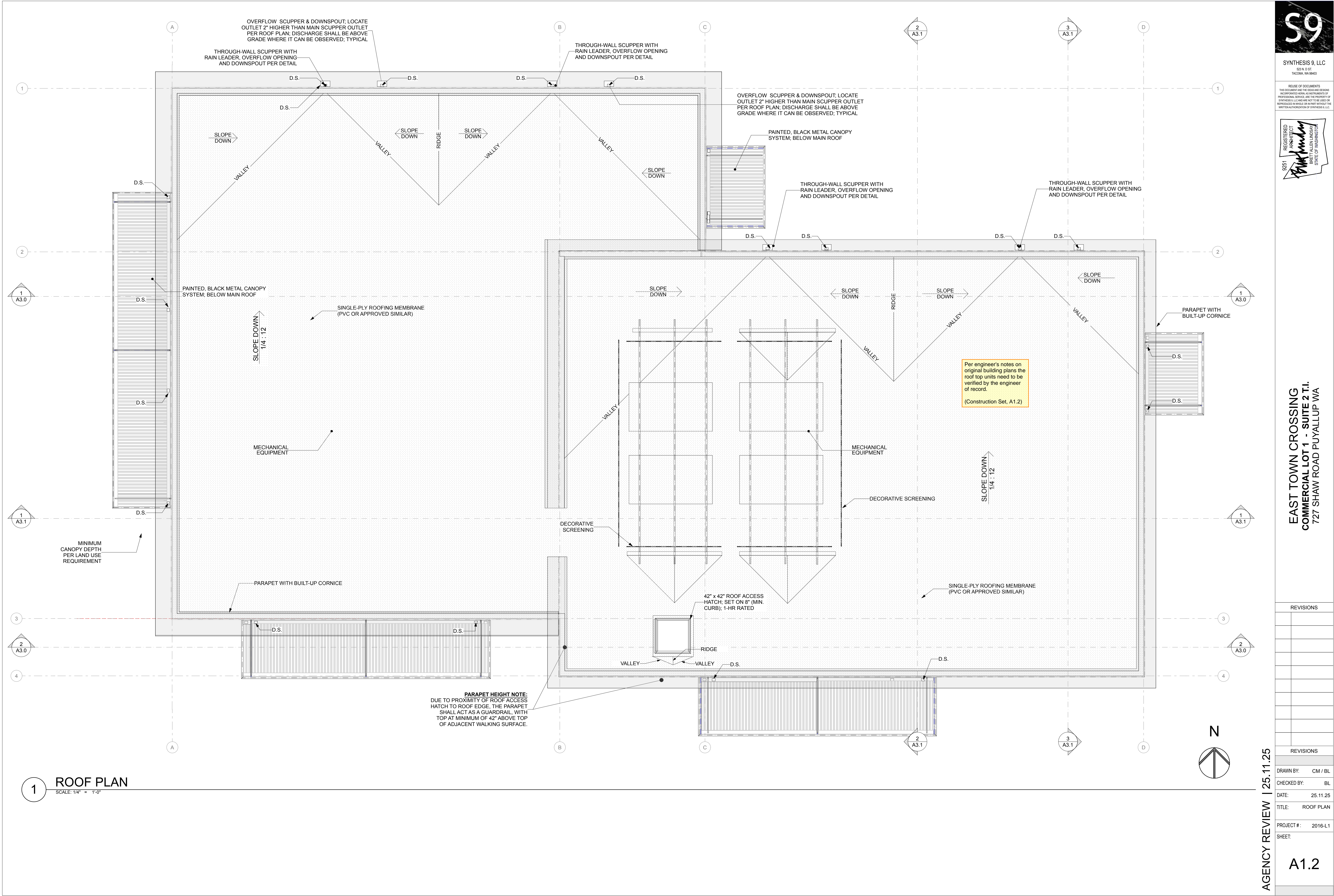


## ThinAir® HAND DRYER

MODELS: **TA - ABS** **SB** **-VOLTAGE** (See Chart)







S9

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9251  
REGISTERED  
ARCHITECT  
*Mark M. Lindsey*  
STATE OF WASHINGTON

EAST TOWN CROSSING  
COMMERCIAL LOT 1 - SUITE 2 T.I.  
727 SHAW ROAD PUYALLUP WA

REVISIONS

REVISIONS

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PROJECT #: 2016-L1  
SHEET:

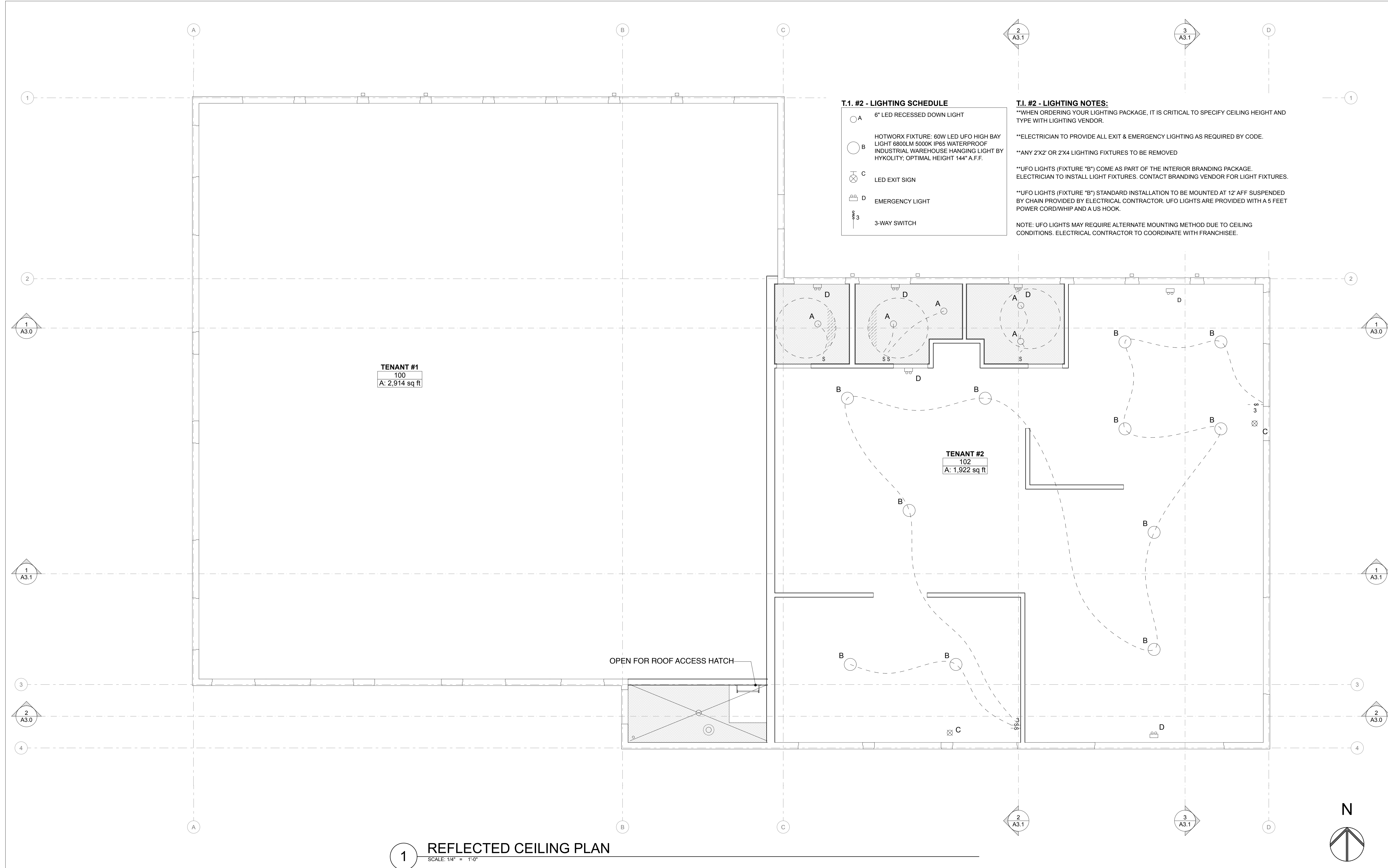
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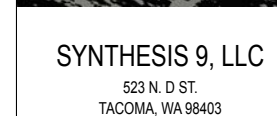
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1 REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"



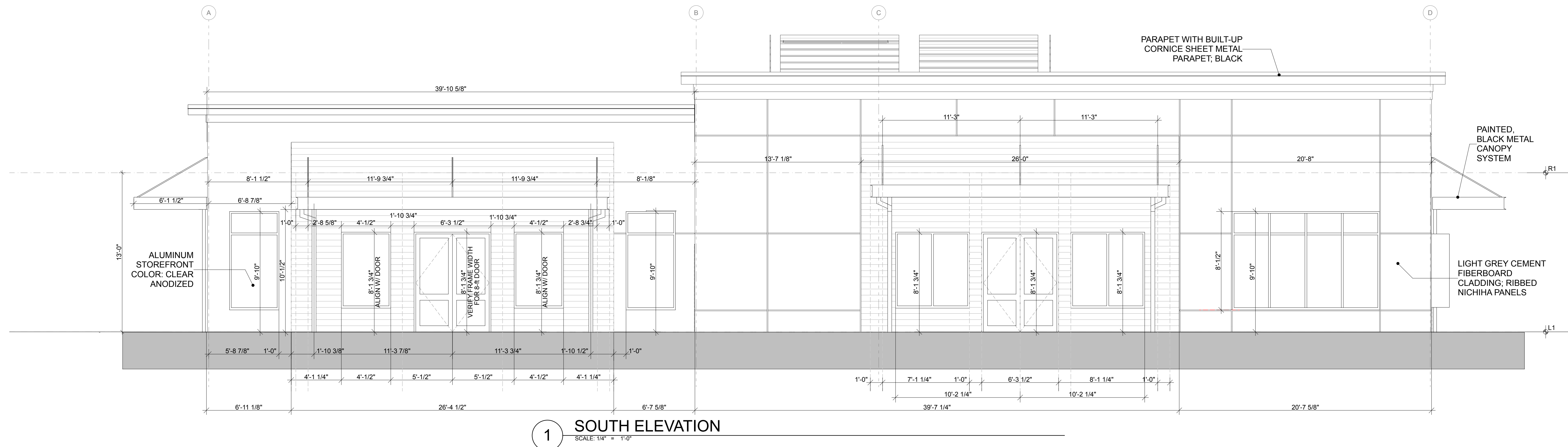


9251 REGISTERED ARCHITECT  
*Brett Allen Lindsay*  
BRETT ALLEN LINDSAY  
STATE OF WASHINGTON

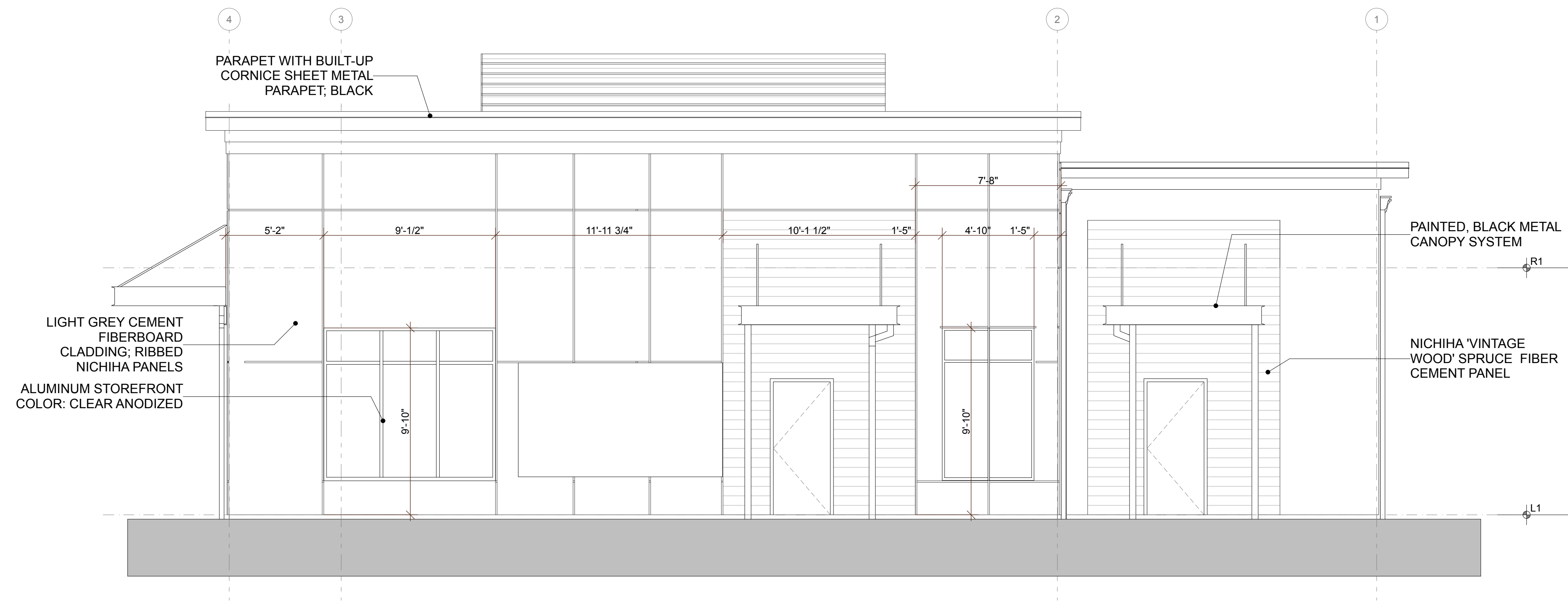
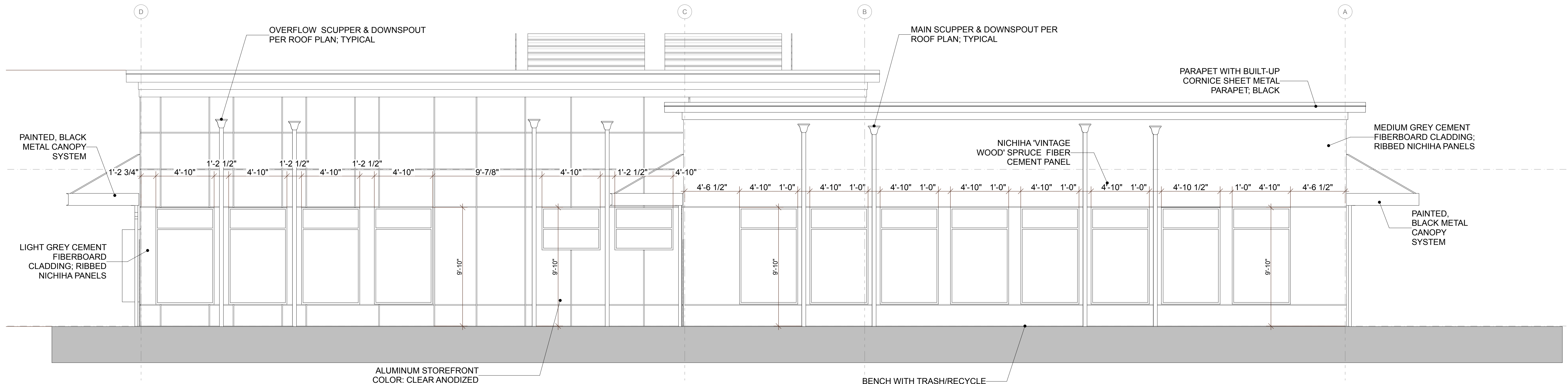
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**COMMERCIAL LOT 1 - SUITE 2 T.I.**  
727 SHAW ROAD PUYALLUP WA

REVISIONS	
REVISIONS	
DRAWN BY:	CM / B
CHECKED BY:	B
DATE:	25.11.2
TITLE:	ELEVATION:
PROJECT #:	2016-L
SHEET:	
A2.0	

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2 EAST ELEVATION  
SCALE: 1/4" = 1'-0"1 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"







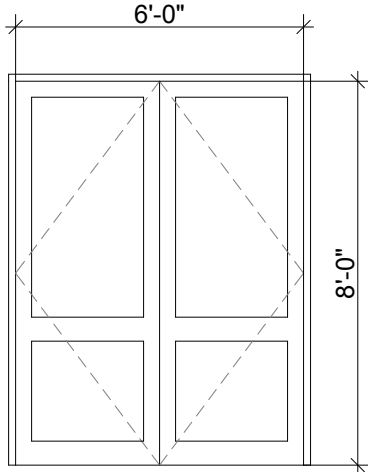
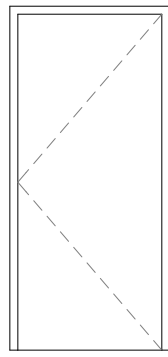
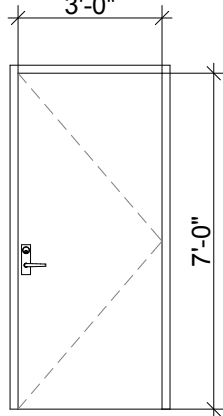




WINDOW TYPES

ELEVATION									
	TYPE	01	02	03	04	05	06	07	08
	SIZE (W x H)	4'-0"×6'-2"	4'-0"×8'-0"	12'-0"×8'-0"	4'-10"×3'-6"	6'-0"×6'-2"	9'-0"×6'-3 3/4"	4'-10"×8'-0"	9'-0"×8'-0"
	QUANTITY	2	2	1	2	2	2	2	1
	U-VALUE	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
	SHGC	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
NOTES	SAFETY GLAZING								

DOOR TYPES

ELEVATION				
	TYPE	A	B	C
	QUANTITY	3	3	3
	FRAME	BLACK ANODIZED ALUM. STOREFRONT	HM	WOOD
	PANEL	SAFETY GLAZED	INSULATED METAL	HCW
	U-VALUE	0.60	0.37	N/A
SHGC	0.38	N/A	N/A	
NOTES	PRIVACY LOCKS; PANIC HARDWARE			

DOOR SCHEDULE

DOOR NUMBER	TYPE	ROOM	DOOR W x HT	NOTES
100A	A	SUITE 100	6'-0"×8'-0"	PANIC HARDWARE
100B	A	SUITE 100	6'-0"×8'-0"	PANIC HARDWARE
100C	B	SUITE 100	3'-0"×7'-0"	PANIC HARDWARE
102A	A	SUITE 102	6'-0"×8'-0"	PANIC HARDWARE
102B	B	SUITE 102	3'-0"×7'-0"	PANIC HARDWARE
401A	B	RISER ROOM	3'-0"×7'-0"	PANIC HARDWARE
G	C	BATHROOMS	3'-0"×7'-0"	PRIVACY LOCK; PANIC HARDWARE

DOOR SCHEDULE NOTES:

DOOR OPERATIONS PER IBC 1010.2.10 - EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

DOOR HARDWARE PER IBC 1010.2.2 - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

HARDWARE HEIGHT PER IBC 1010.2.3 - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.

ACCESSIBLE THRESHOLDS PER ICC A117.1-2017 SECTION 303 - THRESHOLDS AT DOORWAYS SHALL BE 1/2" MAXIMUM IN HEIGHT.

DOOR CLOSERS PER ICC A117.1-2017 - DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THROUGH THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS.

DOOR-OPENING FORCE PER ICC A117.1-2017 - THE FORCE FOR PUSHING OR PULLING OPEN DOORS SHALL BE 10.0 POUNDS MAXIMUM PER WASHINGTON STATE AMMENDMENT.

DOOR HARDWARE LOCKSETS and DEFINITIONS

SECURITY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE OUTSIDE KEY. OPERATING THE INSIDE GRIP ALWAYS RETRACTS THE LATCHBOLT.

ACCESSIBLE SECURITY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY EITHER THE INSIDE KEY OR THE OUTSIDE KEY. OPERATING THE INSIDE GRIP ALWAYS RETRACTS THE LATCHBOLT. ALL COMPONENTS OF THE DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS OF SECTION 1010.1.9 OF THE 2015 IBC.

OFFICE LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE TOGGLE OR OUTSIDE KEY. OPERATING THE INSIDE GRIP DOES NOT UNLOCK THE OUTSIDE GRIP.

PASSAGE LOCKSET - THE LATCHBOLT IS ALWAYS RETRACTED BY THE GRIP ON EITHER SIDE. BOTH GRIPS ARE ALWAYS FREE.

PRIVACY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE INSIDE THUMB-TURN, BUTTON OR KEY. OPERATING THE INSIDE GRIP UNLOCKS THE OUTSIDE GRIP. AN EMERGENCY RELEASE TOOL UNLOCKS THE OUTSIDE GRIP. THE OUTSIDE GRIP IS ALSO UNLOCKED WHEN THE DOOR IS CLOSED. DOOR CAN ONLY BE LOCKED FROM THE INSIDE WHEN THE DOOR IS CLOSED.

PUBLIC RESTROOM LOCKSET - THE LATCHBOLT IS RETRACTED BY THE INSIDE GRIP OR AN OUTSIDE KEY. THE LATCHBOLT IS RETRACTED BY THE OUTSIDE GRIP INLESS THE GRIP IS LOCKED BY A KEY FROM THE INSIDE. THE LATCHBOLT / OUTSIDE GRIP CANNOT BE LOCKET BY A KEY FROM THE OUTSIDE. ALL COMPONENTS OF THE DOOR HARDWARE GROUP TO MEET ACCESSIBILITY REQUIREMENTS OF SECTION 1010.1.9 OF THE 2015 IBC.

STOREROOM LOCKSET - THE LATCHBOLT IS RETRACTED BY THE INSIDE GRIP OR OUTSIDE KEY.

CLOSET LOCKSET - THE LATCHBOLT IS RETRACTED BY THE OUTSIDE AND THE INSIDE GRIP AND THE GRIP CANNOT BE LOCKED.

GLAZING NOTES:

1. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED HAZARDOUS LOCATIONS.

2. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAT 60 INCHES ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

3. GLAZING IN INDIVIDUAL FIXED OR OPERABLE PANEL OF A WINDOW THAT MEETS ALL OF THE FOLLOWING FOUR CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION: 1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQAURE FEET; 2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR; 3. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES ABOVE THE FLOOR; AND 4. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING



SYNTHESIS 9, LLC  
652 N D ST  
TACOMA, WA 98403

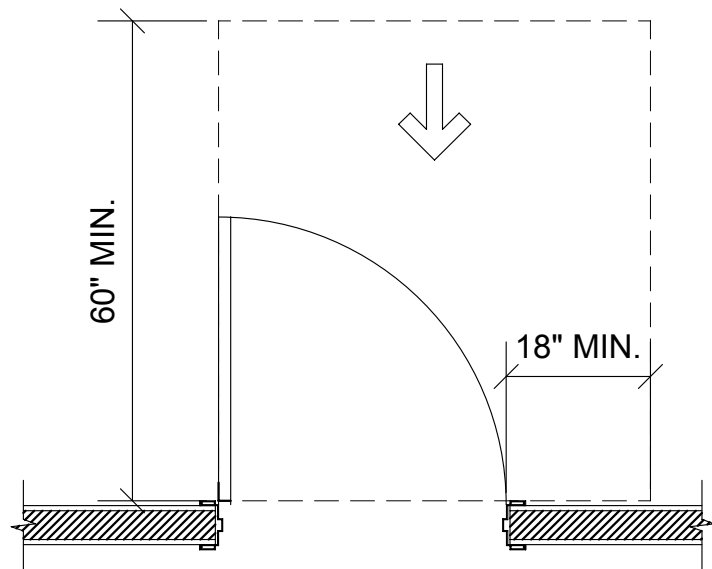
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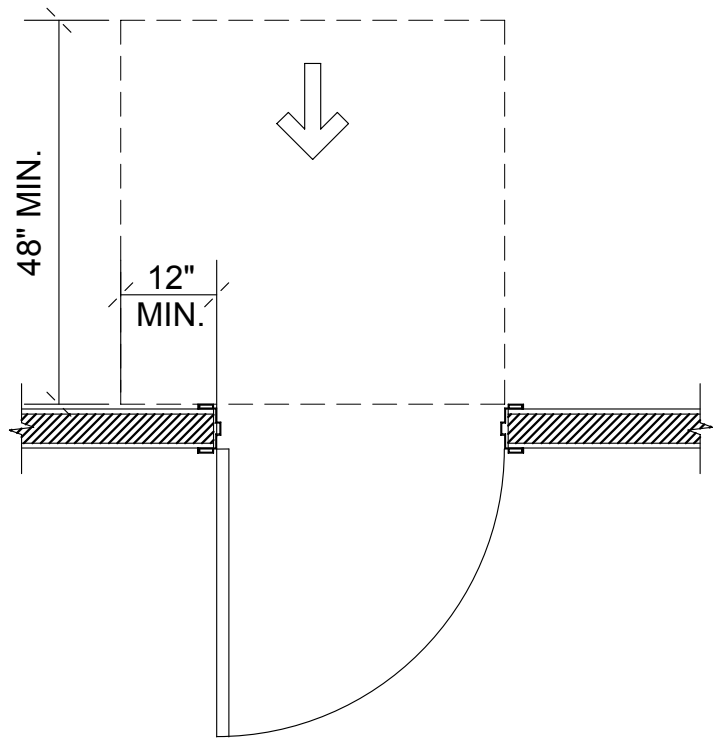
EAST TOWN CROSSING  
COMMERCIAL LOT 1 - SUITE 2 T.I.  
727 SHAW ROAD PUYALLUP WA

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	25.11.25
TITLE:	DOORS & WINDOWS
PROJECT #:	2016-L1
SHEET:	
A4.0	

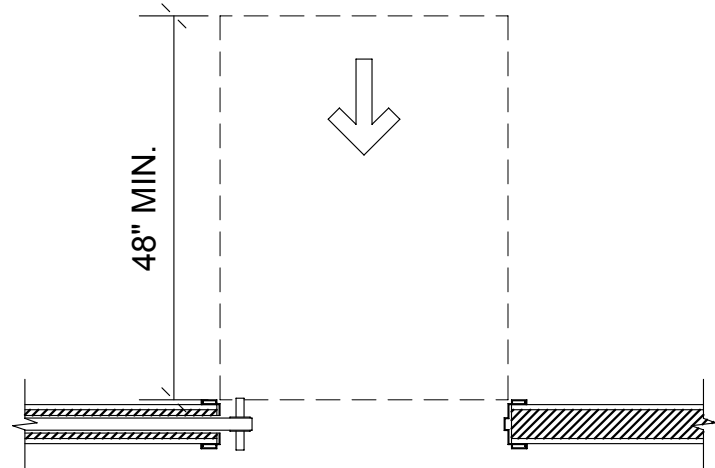




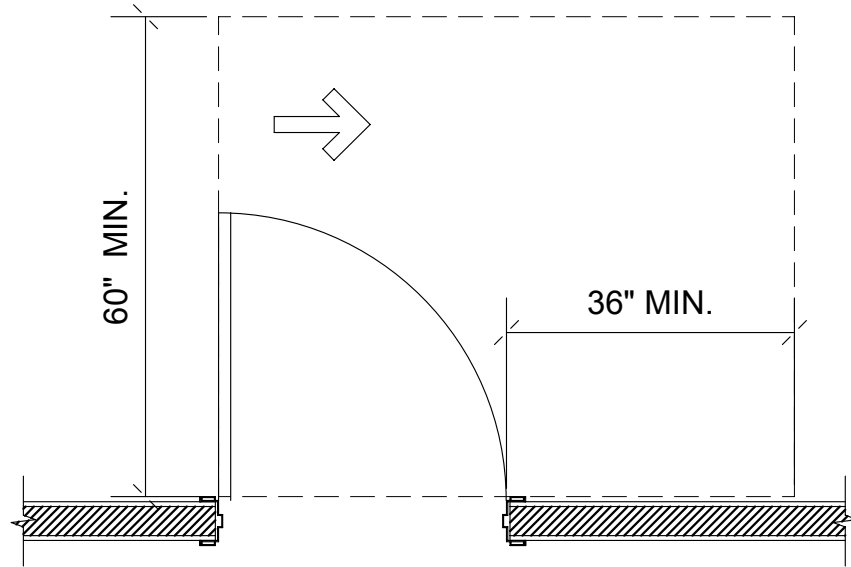
FRONT APPROACH, PULL SIDE



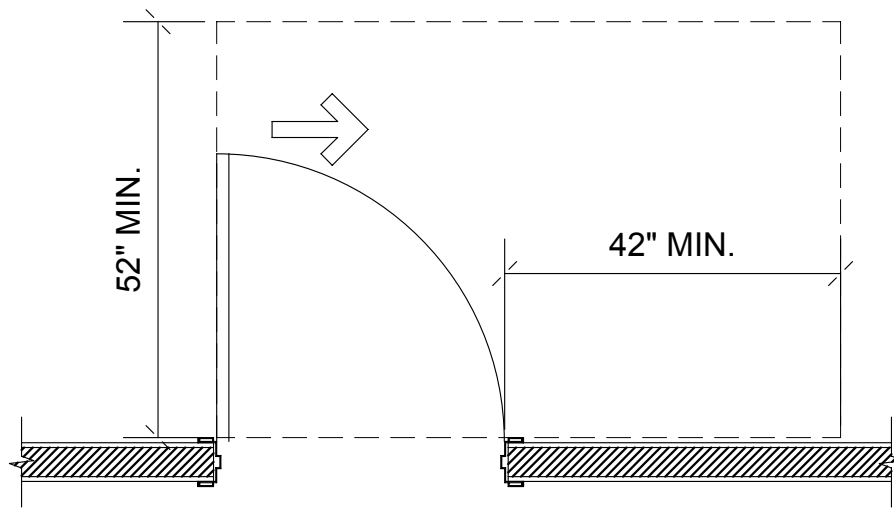
FRONT APPROACH, PUSH SIDE



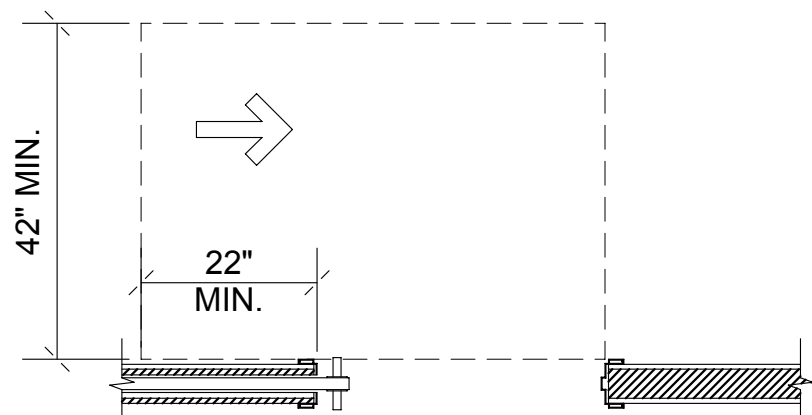
FRONT APPROACH, POCKET



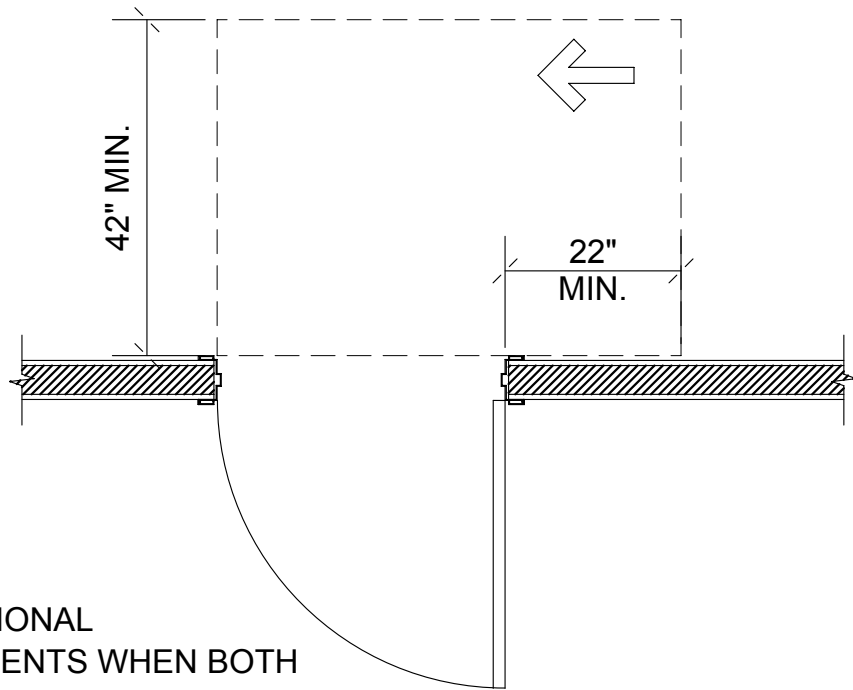
HINGE APPROACH, PULL SIDE



HINGE APPROACH, PULL SIDE

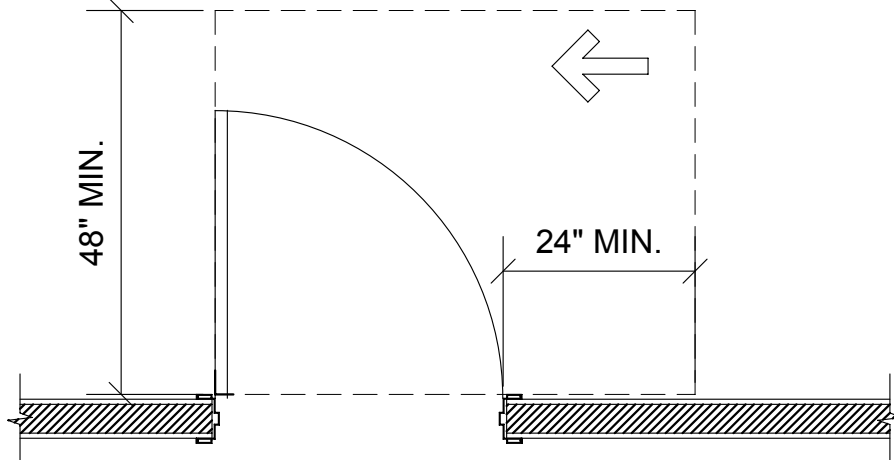


POCKET OR HINGE APPROACH



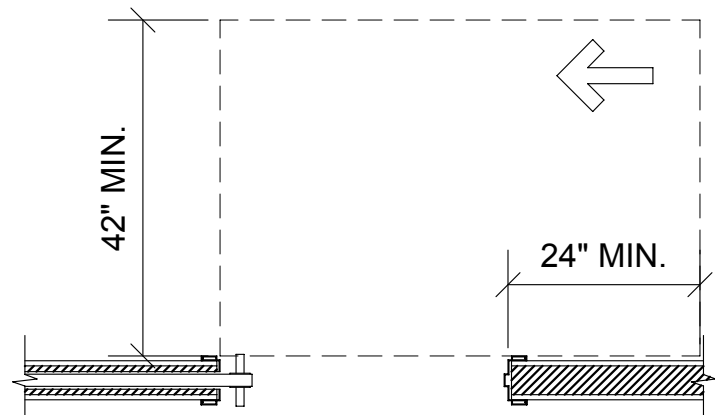
SEE ADDITIONAL REQUIREMENTS WHEN BOTH CLOSER & LATCH ARE PROVIDED PER FIGURE 404.2.3.2 (ON THIS SHEET)

HINGE APPROACH, PUSH SIDE

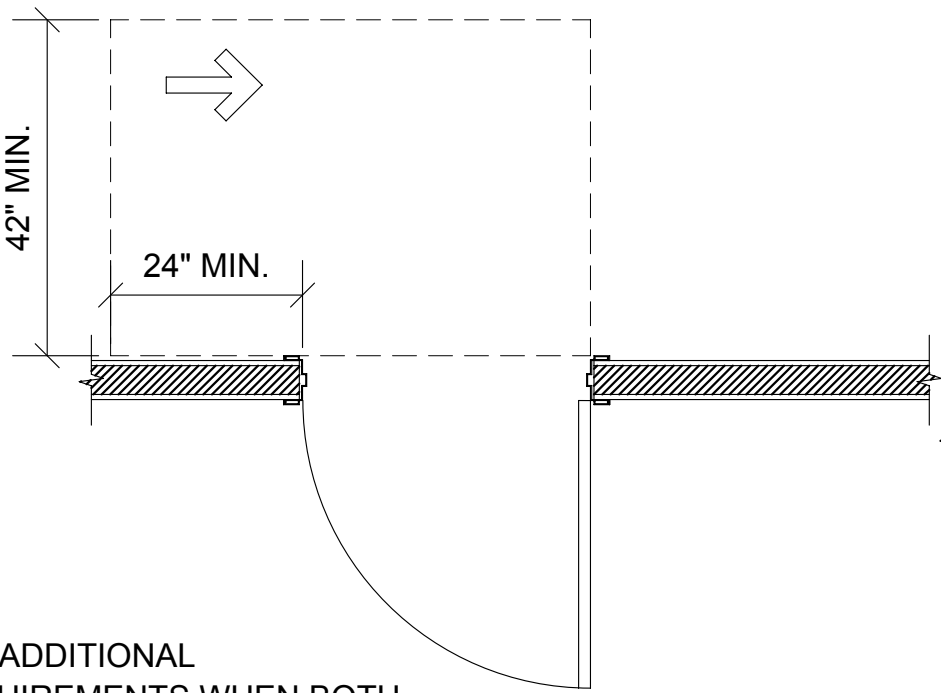


SEE ADDITIONAL REQUIREMENTS WHEN BOTH CLOSER & LATCH ARE PROVIDED PER FIGURE 404.2.3.2 (ON THIS SHEET)

LATCH APPROACH, PULL SIDE

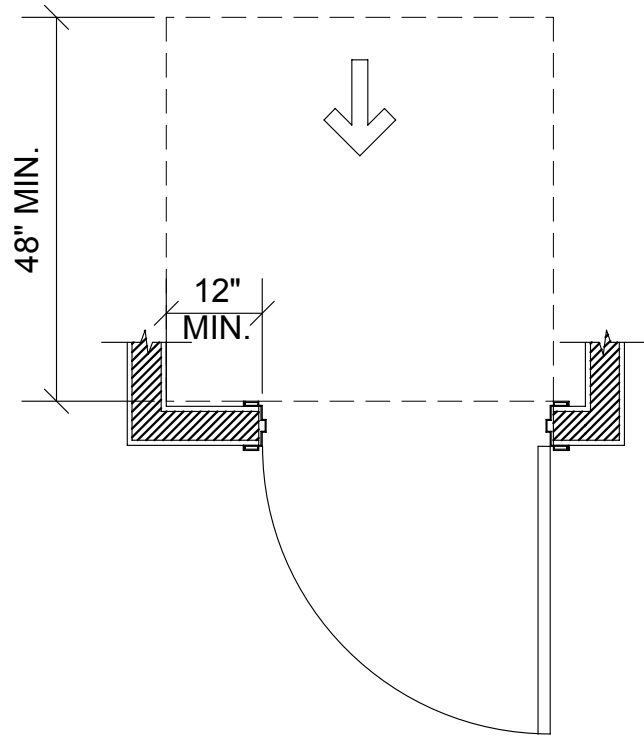


STOP OR LATCH APPROACH



SEE ADDITIONAL REQUIREMENTS WHEN BOTH CLOSER & LATCH ARE PROVIDED PER FIGURE 404.2.3.2 (ON THIS SHEET)

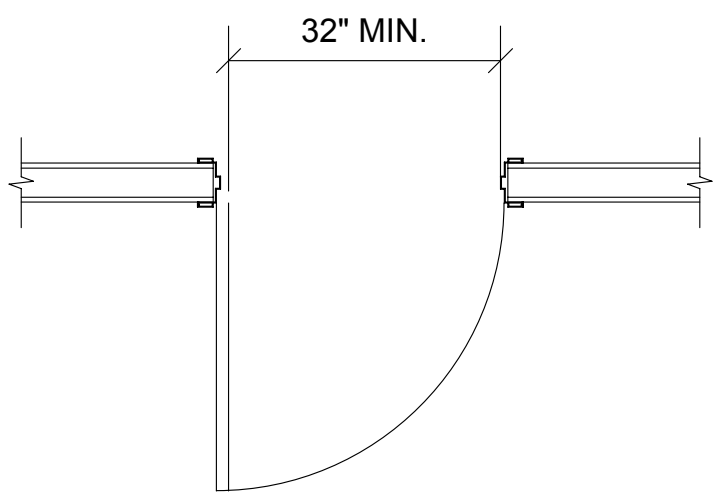
LATCH APPROACH, PUSH SIDE



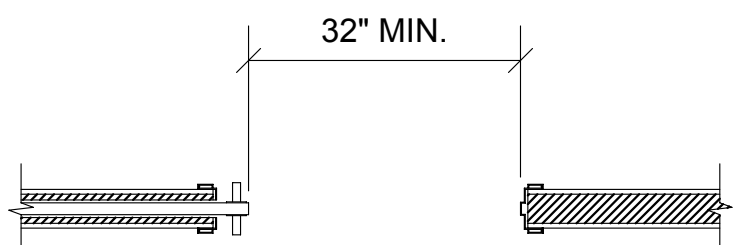
PUSH SIDE, W/ CLOSER & LATCH

402.2.2 CLEAR WIDTH  
DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES MINIMUM. CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES.

- EXCEPTIONS:
- DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FLOOR.
  - IN ALTERATIONS, A PROJECTION OF 5/8" MAXIMUM INTO THE REQUIRED CLEAR OPENING WIDTH SHALL BE PERMITTED FROM THE LATCH SIDE STOP.



(A) HINGE DOOR



(B) SLIDING DOOR

CLEAR WIDTH OF OPENINGS

TABLE 404.2.3.2—MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

TYPE OF USE		MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS	
Approach Direction	Door Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm) <sup>3</sup>
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm) <sup>1</sup>	22 inches (560 mm) <sup>3 &amp; 4</sup>
From latch side	Pull	48 inches (1220 mm) <sup>2</sup>	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm) <sup>2</sup>	24 inches (610 mm)

<sup>1</sup>Add 6 inches (150 mm) if closer and latch provided.  
<sup>2</sup>Add 6 inches (150 mm) if closer provided.  
<sup>3</sup>Add 12 inches (305 mm) beyond latch if closer and latch provided.  
<sup>4</sup>Beyond hinge side.



PROVIDE FOLDING RECTANGULAR OR L-SHAPED SEAT FOR SHOWER & BLOCKING FOR SHOWER SEAT.

5'-0" MIN.

2'-6" MIN.

VERTICAL G.B.

2'-6" CLEAR FLOOR SPACE

1/2" MAX. THRESHOLD BEVELED NO STEEPER THAN 1:2

5'-0" CLEAR FLOOR SPACE

1 1/2" MAX.

15"-16"

3" MAX.

2 1/2" MAX.

15"-16"

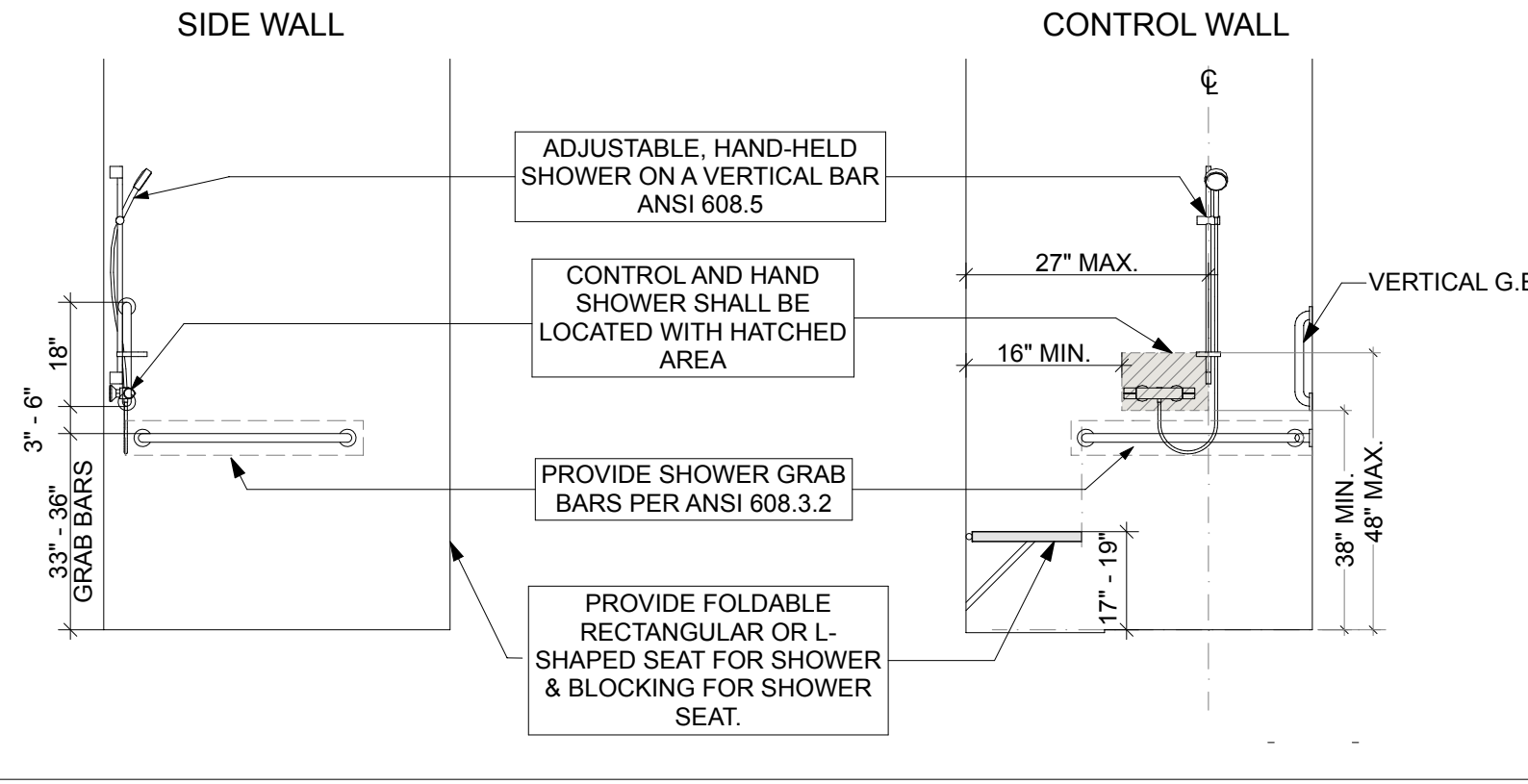
2 1/2" MAX.

3" MAX.

14"-15"

1 1/2"

22" - 23"



UNOBSTRUCTED

UNOBSTRUCTED

UNOBSTRUCTED

Technical drawings of a toilet stall showing side and top views with dimensions and labels.

**Side View (Left):**

- DOOR SHALL BE SELF-CLOSING
- 5'-0" MIN. (Door width)
- 39" - 41" (Door height)
- VERTICAL GRAB BAR
- 17" - 19" (Grab bar height)
- 35" - 37" (Total height)
- 12" MAX. (Seat height)
- 54" MIN. (Seat width)

**Top View (Right):**

- VERTICAL G.B. (Grab Bar)
- 54" MIN. (Grab bar width)
- 39" - 41" (Grab bar height)
- 12" MAX. (Seat height)
- 1 1/2" (Grab bar diameter)
- 18" MIN. (Grab bar height)
- 39" - 41" (Grab bar height)
- 33" - 36" (Grab bar height)
- 17" - 19" (Grab bar height)
- 1'-6" (Grab bar height)
- 24" MIN. T.T.D. (Toilet width)
- PROTRUDING DISPENSERS LOCATED BENEATH THE GRAB BAR SHALL BE LOCATED WITHIN THE HATCHED AREA
- MEASURED TO TOP OF SEAT

Diagram illustrating the required clearances and dimensions for a bottle filling station:

- Wheelchair Accessible:** Requires a width of 4'-4" MIN. and a depth of 2'-6" MIN. for the wheelchair approach.
- Standing:** Requires a depth of 2'-6" MIN. for the standing approach.
- Clear Floor Space:** Indicated for the wheelchair approach area.
- Controls:** Controls to be in accessible forward approach reaches.
- Bottle Filling Station:** The main unit being accessed.
- Fountain Spout Outlet:** The point of dispensing.
- Bottle Filler:** The overall unit label.
- Dimensions:**
  - 5" MAX. (height of the fountain spout outlet from the base).
  - 15" MIN. (height of the wheelchair approach area).
  - 36" MAX. (WHEELCHAIR) / 38" - 45" MAX. (STANDING) (height of the fountain spout outlet from the base).

PROVIDE GRAB BARS AT TOILET & BATHTUB PER ANSI A117.1-2017.

4'-8" MIN.  
CLEAR SPACE

6'-1" MIN.  
CLEAR SPACE

42" MIN.  
39"-41"

MEASURED TO TOP OF BARS GRIPPING SURFACE

VERTICAL G.B.

18" MIN.

2'-0"

39"-41"

33"-36"

1'-6"

17"-19"

54" MIN.  
39" - 41"

1 1/2"

12" MAX.

42" MAX.  
24" MIN.  
T.T.D.

PROTRUDING DISPENSERS LOCATED BENEATH THE GRAB BAR SHALL BE LOCATED WITHIN THE HATCHED AREA

MEASURED TO TOP OF SEAT

42" MIN.  
36" MIN.  
24" MIN.  
12" MIN.

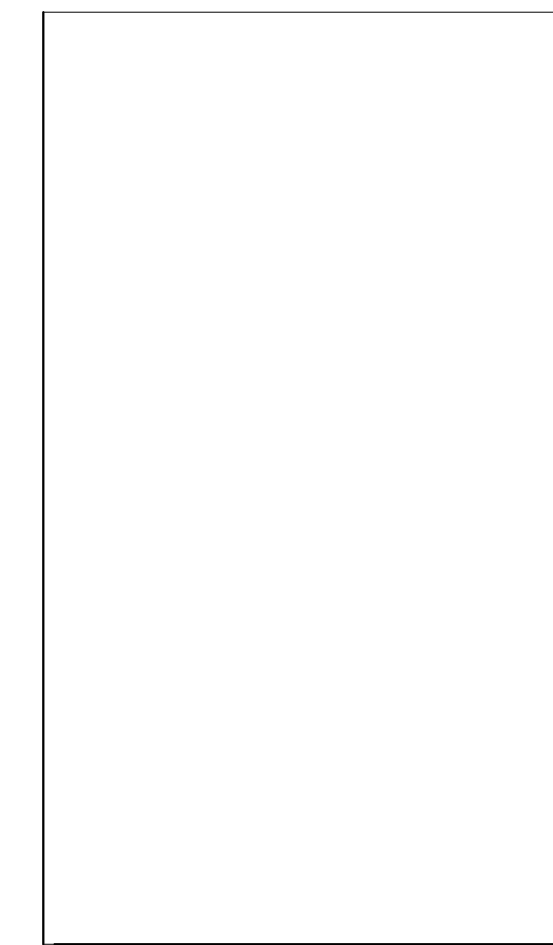
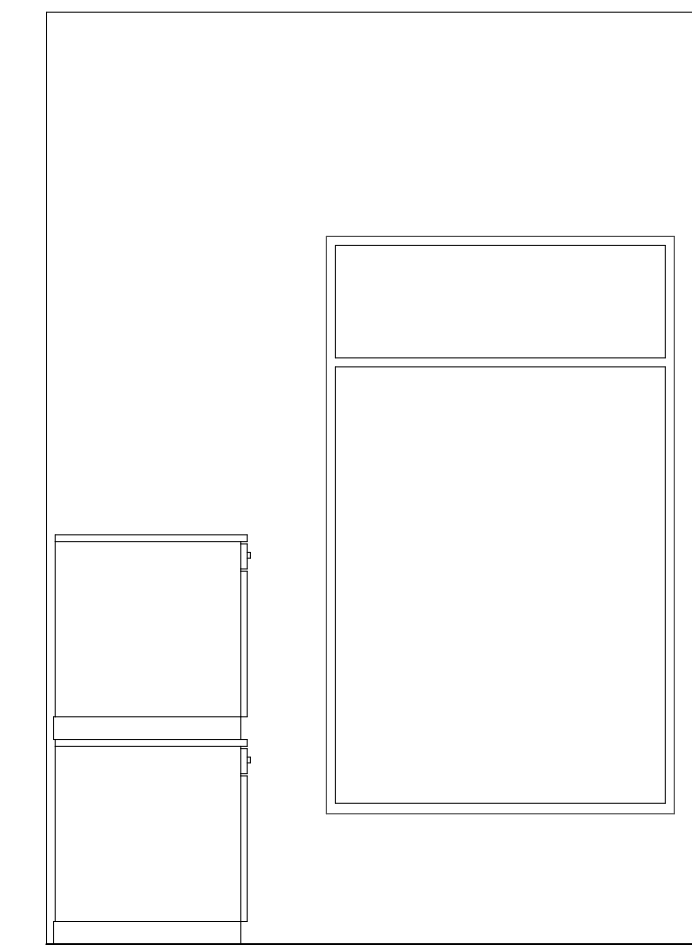
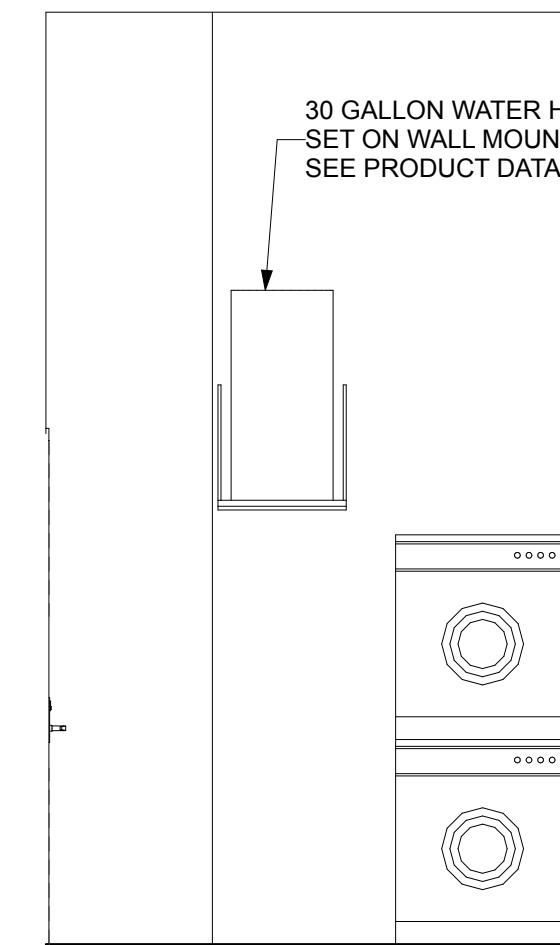
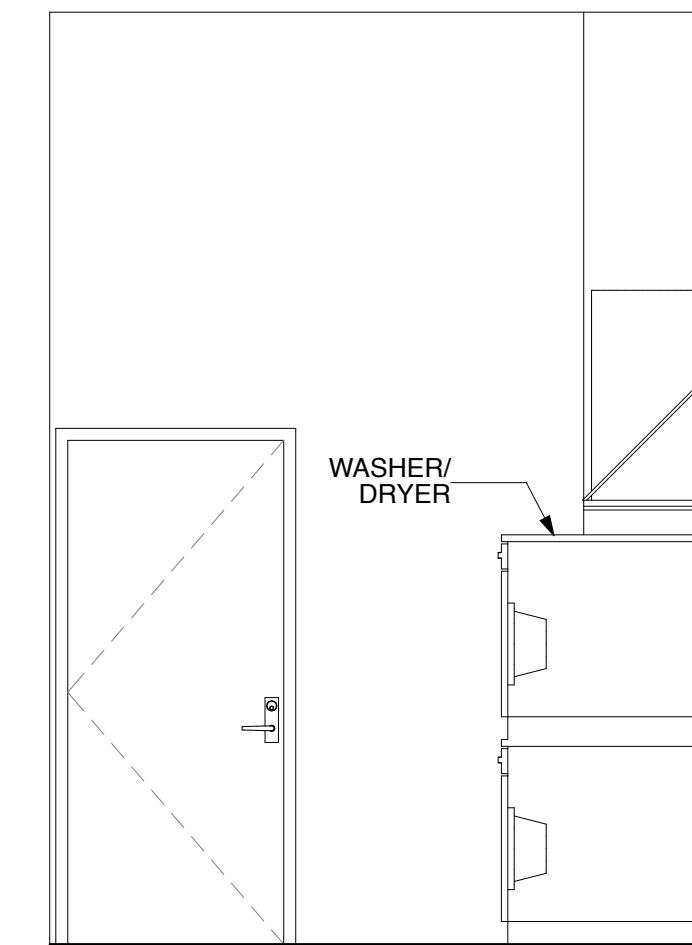
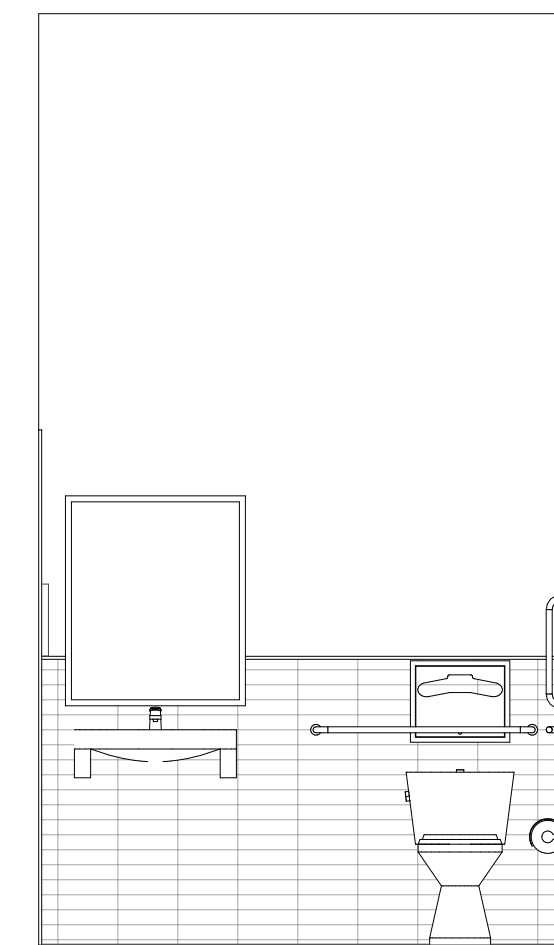
33"-36"

1'-6"

Technical drawing of a vanity unit showing dimensions and requirements. The drawing includes a mirror, a faucet, and a sink. Dimensions are provided in inches.

- MIRROR:** A rectangular mirror is mounted on the wall above the vanity.
- FAUCET:** A faucet is mounted on the vanity. A callout box states: "FAUCET SHALL COMPLY WITH SECTION 309".
- SINK:** A rectangular sink is integrated into the vanity.
- Dimensions:**
  - Overall Width:** 30" MIN.
  - Overall Depth:** 34" MAX.
  - Knob Space:** A square area with a diagonal line, labeled "KNOB SPACE".
  - Height from Floor to Top of Vanity:** 34" MIN.
  - Height from Floor to Top of Sink:** 27" MIN.
  - Height from Floor to Top of Mirror:** 40" MAX.
  - Height from Floor to Top of Faucet:** 8" MIN.
  - Height from Floor to Top of Sink:** 11" MIN.
  - Height from Floor to Top of Vanity:** 9" MIN.
- Other Features:** A small icon of a person is shown in the upper right corner, indicating the scale or orientation.

Diagram illustrating typical door signage per ANSI 117.1 2017. The diagram shows a door with a "LATCH SIDE" label. A callout shows a "MEN" sign with a height of 6' MIN. and a width of 48' MIN. to 60' MAX. The sign includes a male figure, a wheelchair symbol, and a Braille label.

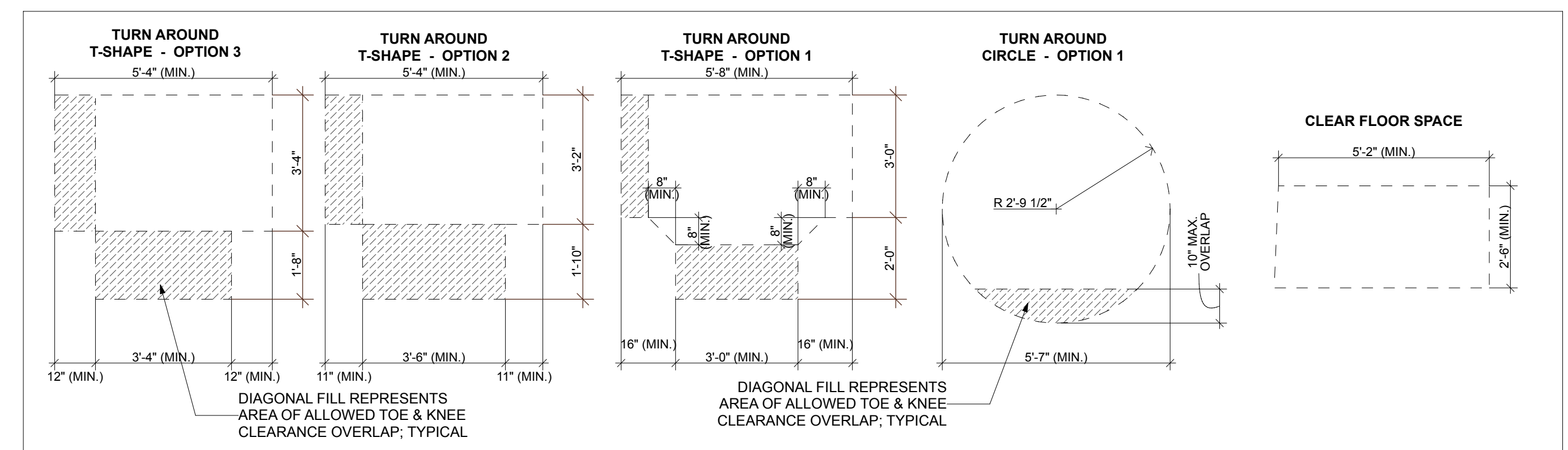


## SCALE: 510 = 1-0

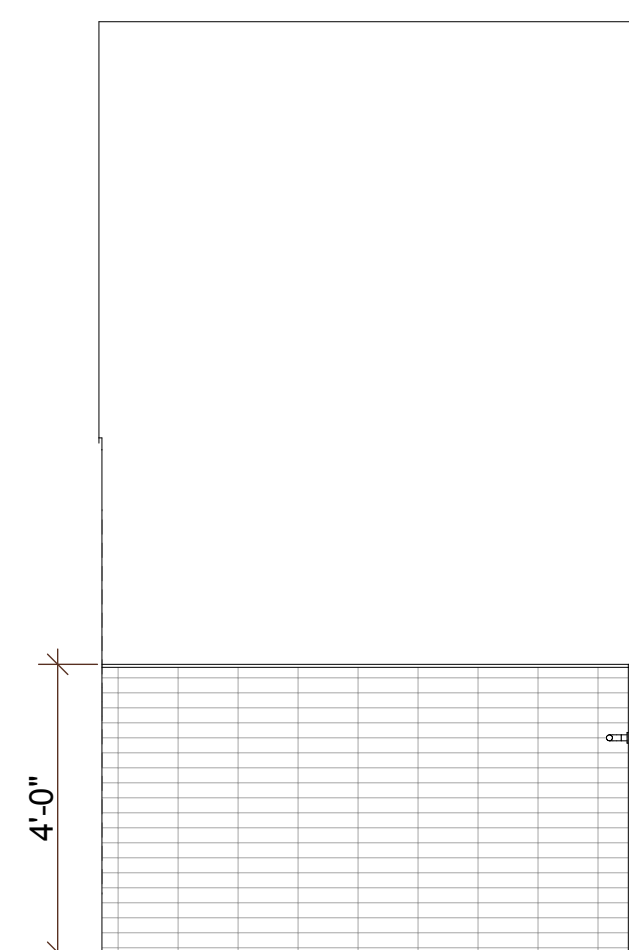
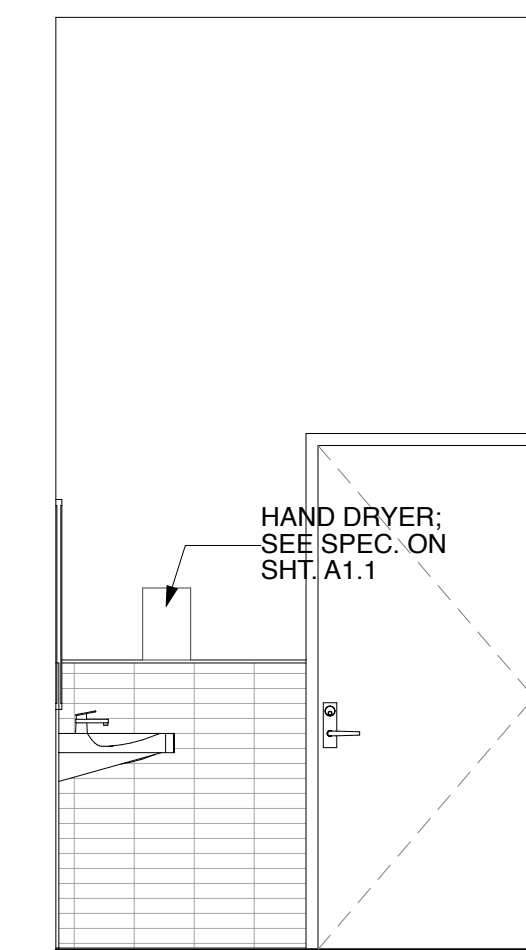
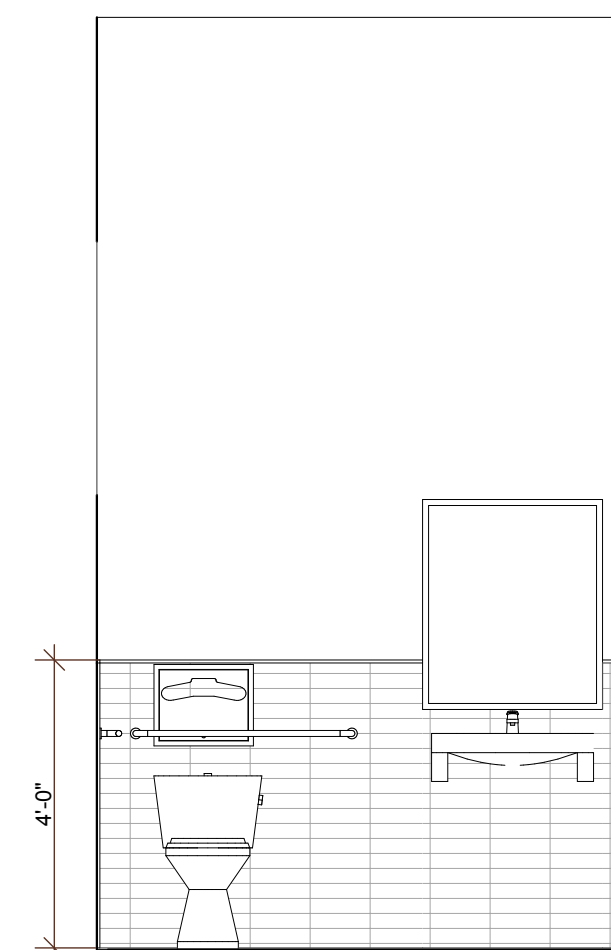
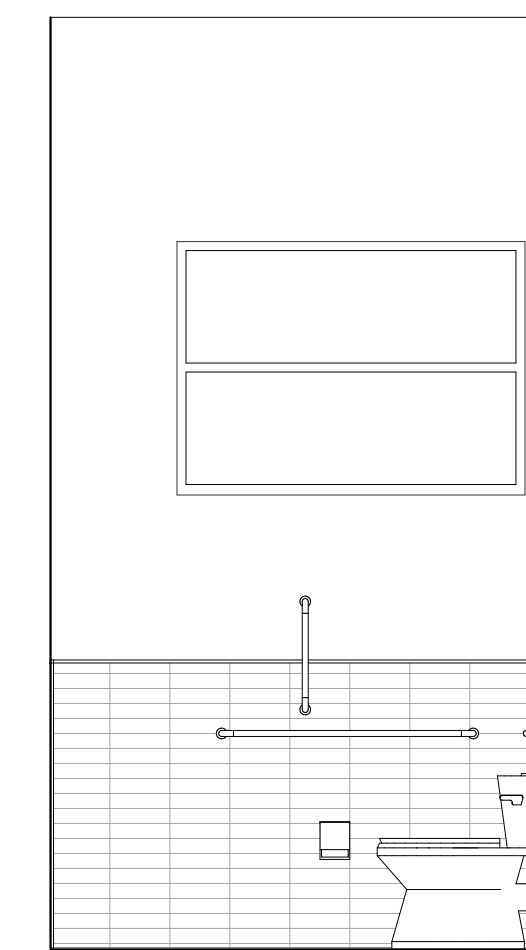
CONFIDENTIAL

DATE: 01/01/2001

DATE: 07/01/2001

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## 14 ACCESSIBLE CLEAR FLOOR SPACE & TURNING SPACE DIMENSIONS

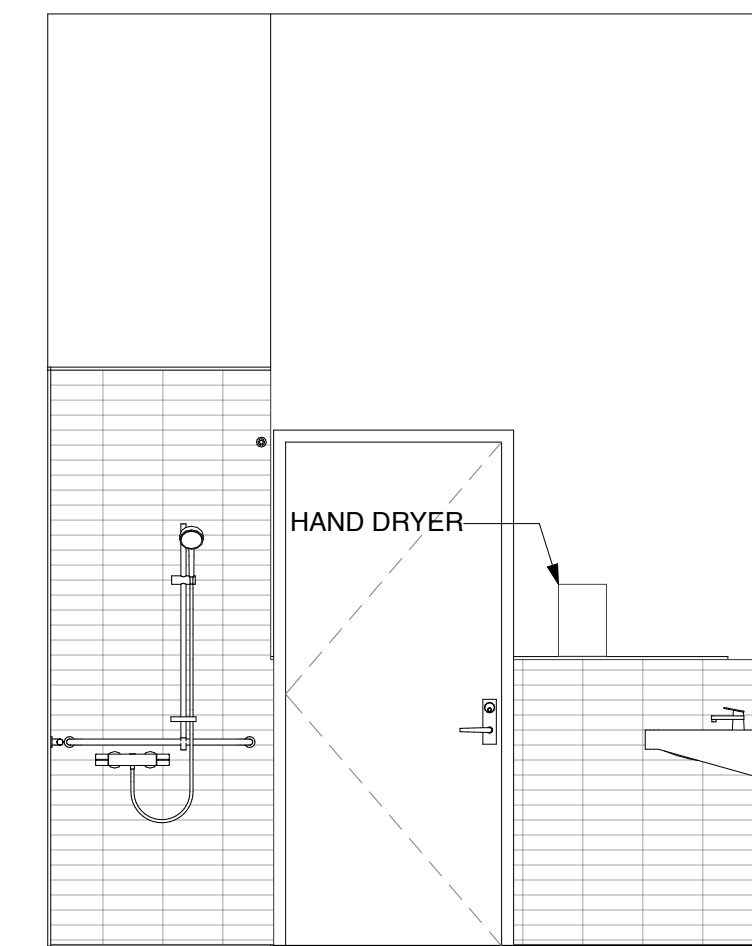
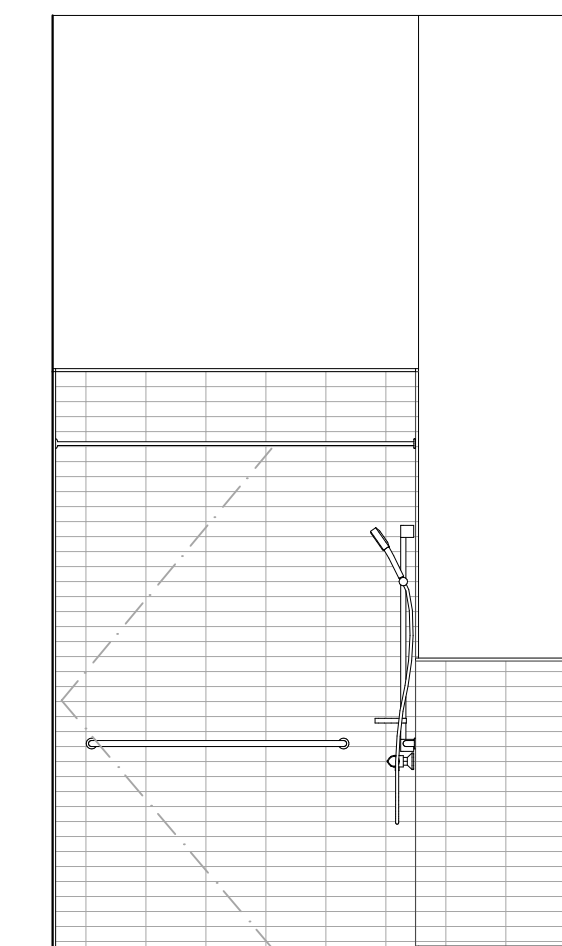
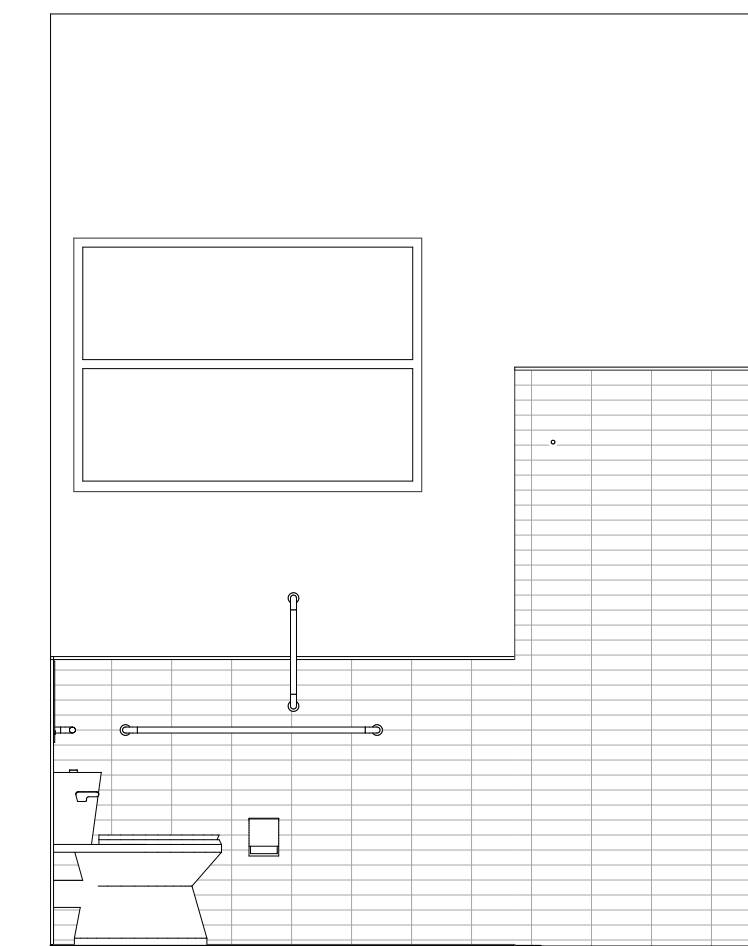


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**CONCLUSIONS**

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SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"

A vertical document titled "SYNTHESIS 9, LLC" with a large "39" in the top left corner. The document includes a disclaimer about the use of documents, a signature of Brett Allen Lindsay, and a date of 9/25/11.

**EAST TOWN CROSSING**  
**COMMERCIAL LOT 1 - SUITE 2 T.I.**  
727 SHAW ROAD PUYALLUP WA

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	25.11.25
TITLE:	INTERIOR ELEVATIONS
PROJECT #:	2016-L1
SHEET:	

A5.0

AGENCY REVIEW | 25.11.25



## GENERAL NOTES

### GENERAL NOTES – MECHANICAL

- REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
3. CODES: COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.
4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL DUCTWORK, DAMPERS, EQUIPMENT, PIPING, ETC.
  - A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL.
  - B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES' WORK.
  - C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.
  - D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
5. MECHANICAL CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITHIN THE STRUCTURE.
6. ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
7. RATED PENETRATION: DUCT PENETRATIONS THROUGH RATED ENCLOSURES SHALL BE FIRE/SMOKE DAMPERED PER THE LATEST EDITION OF THE UNDERWRITERS LABORATORIES(UL) FIRE RESISTANCE WITH HOURLY RATINGS FOR THROUGH-PENETRATION FIRE STOPS SYSTEM VOLUME #2, OR SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S UL LISTINGS (3M OR EQUIVALENT). DETERMINE REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO BID.
8. EXHAUST OUTLETS: SOURCE-SPECIFIC FANS SHALL BE VENTED TO OUTDOORS WITH A MINIMUM 3' CLEARANCE BETWEEN VENT OUTLETS AND BUILDING OPENINGS, AND 10' MINIMUM BETWEEN VENT OUTLETS AND MECHANICAL AIR INTAKES.
9. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.
10. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
11. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.
12. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.
13. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
14. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
15. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

## COORDINATION REQUIREMENTS

1. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.
2. DUCTWORK: LOCATE AND COORDINATE THE EXACT LOCATION OF DUCTWORK WITH STRUCTURAL PLANS AND WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY STRUCTURE OR EQUIPMENT. COORDINATE WITH FRAMING CONTRACTOR TO ASSURE JOIST SPACES LINE UP WHEN DUCTWORK MUST PASS THROUGH DIFFERENT JOIST SPACES.
3. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
4. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.
5. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH ALL LOCAL AND NATIONAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.

PIPING NOTES

1. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
2. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
3. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
4. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
5. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.
2. EXTENT OF INTERNAL DUCT LINING:
  - A. GRILLE AND DIFFUSER BOXES AND BOOTS.
  - B. TRANSFER DUCTS.
  - C. THE FIRST 10 FT. OF SUPPLY AND RETURN DUCTWORK FROM THE AIR HANDLER.
3. EXTENT OF EXTERNAL DUCT INSULATION:
  - A. SUPPLY AND RETURN AIR IN UNCONDITIONED SPACES, MECHANICAL ROOMS, ELECTRICAL ROOMS, AND EQUIPMENT ROOMS NOT SPECIFIED TO BE INTERNALLY LINED.
  - B. SUPPLY AIR ABOVE CEILINGS OR EXPOSED NOT SPECIFIED TO BE INTERNALLY LINED.
  - C. OUTDOOR AIR INTAKE.
4. MISCELLANEOUS DUCT FITTINGS (CONICAL TAKEOFFS, ETC.): WRAP WITH INSULATION FOR CONDENSATION CONTROL.

PLAN NOTES

1. DUCTWORK SHALL BE METALLIC DUCTWORK
2. TEST AND BALANCE WORK SHALL BE PERFORMED BY AN INDEPENDENT TEST AND BALANCE AGENCY. PROVIDE (3) COPIES OF TEST AND BALANCE REPORT TO OWNER.
3. COORDINATE DUCTWORK WITH MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.
4. RESTROOM EXHAUST SHALL BE A MINIMUM OF 10' FROM ANY MECHANICAL OUTSIDE AIR INTAKES.
5. ROUTE DUCTWORK UNDERNEATH JOISTS UON.
6. TRANSITION DUCT UNDER BEAMS AND DUCTS. FIELD VERIFY AVAILABLE CEILING CAVITY DIMENSIONS.
7. COORDINATE MOUNTING HEIGHT OF DIFFUSERS WITH ARCHITECTURAL PLANS.

## SHEET METAL NOTES

- REFERENCE: SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, CURRENT EDITION.
2. CLEARANCE: COORDINATE DUCTWORK WITH MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.
3. ROUND ELBOWS AND OFFSETS: FULL RADIUS ( $R/D = 1.5$ ), 5-PIECE SEGMENTED OR STAMPED. REFER TO SMACNA HVAC FIG 2-7, 3-3. DO NOT USE ANGLED OFFSET (TYPE 1). MITERED OFFSET (TYPE 2) MAY BE USED UP TO 30 DEGREE OFFSET ANGLE.
4. ROUND TEES AND LATERALS: CONICAL TEE PER SMACNA HVAC FIG 3-5; DO NOT USE STRAIGHT TEE; DO NOT USE CONICAL SADDLE TAP FOR EXPOSED DUCTWORK IN FINISHED SPACES. 90-DEGREE TEE WITH OVAL TO ROUND TAP, LATERAL, AND 45-DEGREE RECTANGULAR LEAD-IN PER SMACNA HVAC FIG 3-4.
5. RECTANGULAR ELBOWS AND OFFSETS: FULL RADIUS WHERE SPACE PERMITS,  $R/W = 1.5$ ; OTHERWISE USE SQUARE CORNER ELBOW WITH TURNING VANES.
6. RECTANGULAR DIVIDED FLOW FITTINGS: USE GENERALLY, EXCEPT BRANCHES TO TERMINALS; SMACNA HVAC FIG 2-5, TYPES 1, 2, 4A, AND 4B. DO NOT USE TYPE 3.
7. TURNING VANES: H.E.P. MANUFACTURER OR APPROVED HIGH EFFICIENCY PROFILE AIRFOIL TYPE FOR RECTANGULAR SQUARE THROAT ELBOWS. ACOUSTICAL TYPE FOR RETURN AIR MITERED ELBOWS.
8. TAKEOFFS TO OPENINGS: CONICAL TYPE WITH VOLUME DAMPER FOR ROUND DUCT BRANCHES PER SMACNA HVAC FIG 2-6, MINIMUM INLET DIAMETER 2 INCHES LARGER THAN DUCT SIZE, 45 DEGREE ENTRY FITTING FOR RECTANGULAR DUCT BRANCHES PER SMACNA HVAC FIG 2-6.
9. FLEXIBLE CONNECTIONS: PROVIDE AT EACH DUCT CONNECTION TO FANS, PACKAGED HVAC EQUIPMENT, EXTERNALLY ISOLATED AIR HANDLING UNITS, FAN COIL UNITS, AND SIMILAR EQUIPMENT. EXCEPTION: EQUIPMENT IN CORRIDOR CEILING SPACES WHERE FIRE RATING IS REQUIRED.
10. ALL DUCT WORK SHALL BE CLASSIFIED FOR LOW PRESSURE SYSTEMS PER IMC SECTION 603.
11. ALL DUCTS AND JOINTS SHALL BE SEALED PER IMC SECTION 603.

## HVAC NOTES

1. ATTACHMENTS: AIR DISTRIBUTION OUTLETS AND LOUVERS

SHALL HAVE ALL REQUIRED ACCESSORIES AND ATTACHMENTS FOR A COMPLETE CONNECTION TO THE SPECIFIC TYPE OF STRUCTURE THAT THEY ARE BEING ATTACHED TO. THIS INCLUDES, BUT IS NOT LIMITED TO, EXTERIOR BRICKS, GWB WALLS, GWB CEILING, ETC.

2. DUCTWORK: DUCTWORK SHALL BE SMOOTH SHEET METAL (CLASS-1). DUCTWORK THROUGH FIRE RATED STRUCTURE AND FLOOR SHALL BE MIN. 26 GA. STEEL. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON DRAWINGS. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
3. SEISMIC: PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK PER SMACNA AND LOCAL REGULATIONS.
4. FILTER CLEARANCE: PROVIDE ADEQUATE CLEARANCE FOR CHANGING AIR FILTERS.
5. DUCTWORK AND PIPING OUTSIDE OF MECHANICAL ROOMS SHALL BE CONCEALED, COORDINATE WITH THE GENERAL CONTRACTOR TO FUR-OUT AS REQUIRED.
6. FIRE RATINGS: RATED FLOOR/CEILING JOINT SPACES HAVING DUCTWORK INSIDE THEM SHALL BE FIRE/SMOKE PROTECTED TO MAINTAIN THE 1-HOUR FLOOR/CEILING RATING PER LOCAL JURISDICTIONS. EXHAUST DUCTWORK PENETRATING THE 1-HOUR ROOF/CEILING OR FLOOR/CEILING ASSEMBLY SHALL HAVE ACCESSIBLE CEILING FIRE DAMPERS. ALTERNATIVELY, THE EXHAUST DUCTWORK SHALL BE ROUTED INSIDE A RATED SHAFT TO PROTECT THE CEILING/ROOF RATING PER THE LOCAL JURISDICTIONS.
7. FIRESTOP: PIPE, DUCT AND CONDUIT PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE AND SMOKE STOPPED PER CODE.
8. DUCTWORK: DUCTWORK SHALL BE SMOOTH SHEET METAL (CLASS-1). DUCTWORK THROUGH FIRE RATED STRUCTURE AND FLOOR SHALL BE MIN. 26 GA. STEEL. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0" UNLESS OTHERWISE NOTED ON DRAWINGS. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
9. VOLUME DAMPERS: PROVIDE AN ACCESSIBLE MANUAL VOLUME DAMPER FOR EACH SUPPLY, RETURN, OSA AND EXHAUST OPENING, LOCATED AS FAR UPSTREAM AS POSSIBLE FROM THE OPENING. PROVIDE A MANUAL VOLUME DAMPER FOR BRANCH MAINS SERVING MORE THAN ONE OPENING. VOLUME DAMPERS IN NON-ACCESSIBLE CEILING SHALL HAVE A CONTROL ARM EXTENDED TO AN ACCESSIBLE LOCATION. PROVIDE "YOUNG" REGULATOR OR EQUAL. EXACT LOCATION OF CONTROL DEVICES VISIBLE IN FINISHED SPACES SHALL BE COORDINATED WITH THE ARCHITECT.
10. CORRIDOR THERMOSTAT: PROVIDE TAMPERPROOF THERMOSTATS IN CORRIDORS. DO NOT PROVIDE PLASTIC GUARDS TO MAKE THE THERMOSTATS TAMPERPROOF. PROVIDE BLANK SECURABLE THERMOSTAT COVERS.

APPLICABLE CODE

BUILDING CODE:

2021 WASHINGTON STATE ENERGY CODE—COMMERCIAL PROVISIONS

2021 WASHINGTON STATE MECHANICAL CODE

DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

# PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS. CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH THE CHANNELS OF THE PROJECT. ANY DISPUTES WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THROUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

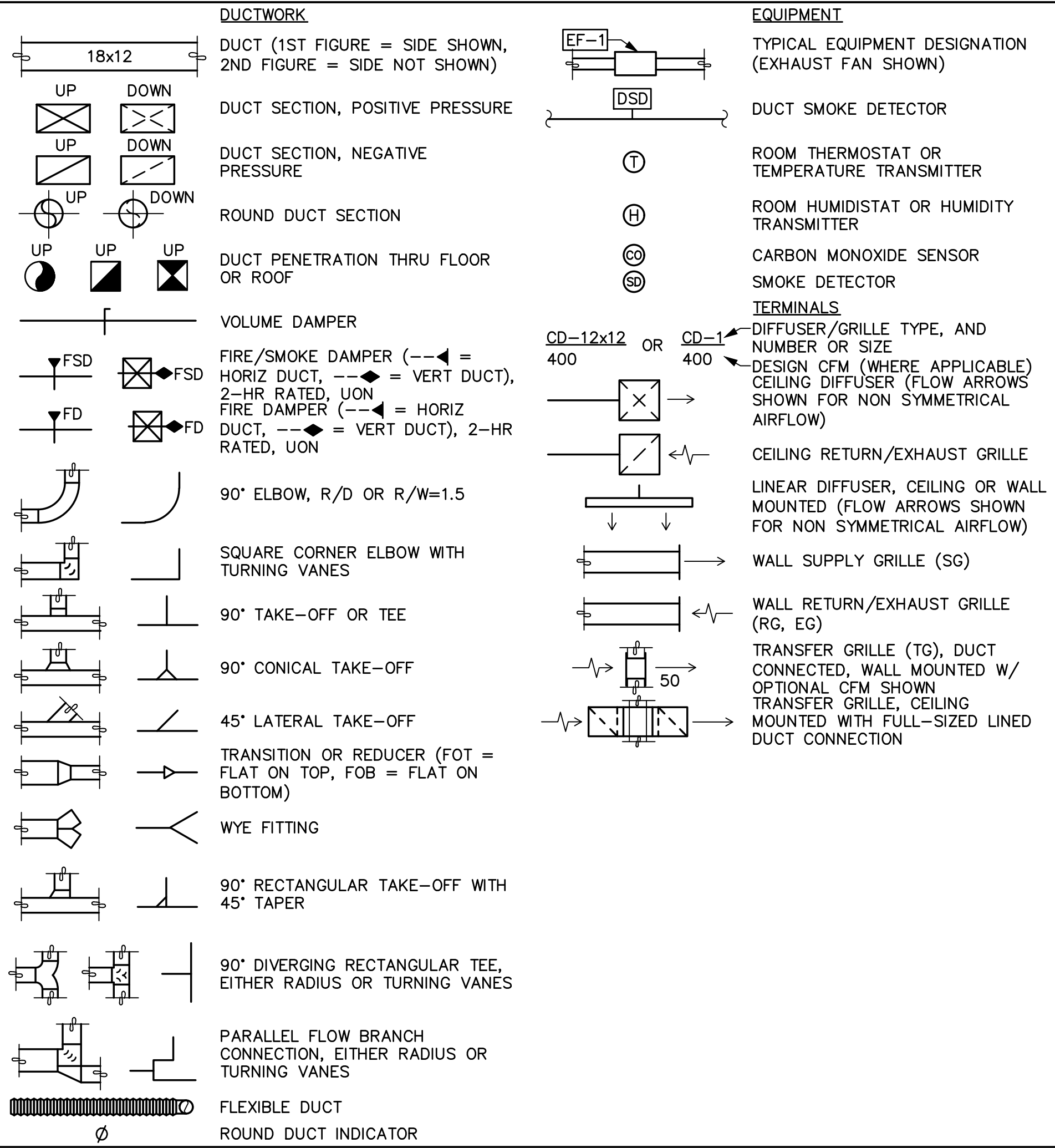
THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

MECHANICAL SHEET METAL	4 HOURS
PLUMBING/PIPING	4 HOURS
ELECTRICAL	4 HOURS
SPRINKLER	2 HOURS
GENERAL CONTRACTOR	ALL SESSIONS

# ANNOTATIONS

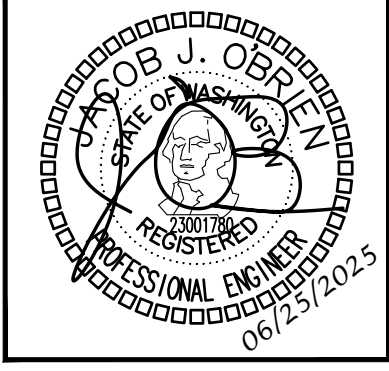
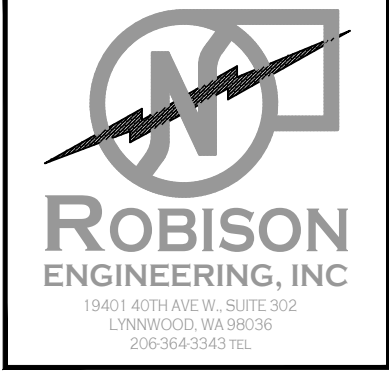
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
BDD	BACKDRIFT DAMPER
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
CAP	CAPACITY
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING, COOLING
CO	CLEANOUT
COMB	COMBUSTION
CONT	CONTINUE, CONTROL
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
D	DIAMETER
DB	DRY BULB, DECIBEL
DEG	DEGREE
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE, ENGINE GENERATOR
ELEC	ELECTRIC
EQUIV	EQUIVALENT
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
EXT	EXTERIOR, EXTERNAL
F	FAHRENHEIT
FD	FIRE DAMPER
FCU	FAN COIL UNIT
FLR	FLOOR
FSM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
G	GAS
GRD	GRILLES, REGISTERS, AND DIFFUSERS
GWB	GYPSON WALLBOARD
H	HORIZONTAL
HPR	HORSEPOWER, HEAT PUMP
HRU	HEAT RECOVERY UNIT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVU	HEATING AND VENTILATION UNIT
HWR	HIGH WALL RETURN, HOT WATER RETURN
HWS	HIGH WALL SUPPLY, HOT WATER SUPPLY
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN, INSIDE DIAMETER
IN	INCH
KW	KILOWATT
L	LONG, LENGTH
LB	POUND
LWR	LOW WALL RETURN
LWS	LOW WALL SUPPLY
MBH	THOUSAND BTU PER HOUR
MCH	MECHANICAL
MCA	MINIMUM CIRCUIT AMPACITY
MOC	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
OSA	OUTDOOR AIR
OD	OPPOSED BLADE DAMPER
ODD	OUTSIDE DIMENSION OR DIAMETER
OPNG	OPENING
P	PUMP
PD	PRESSURE DROP
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
REF	REFERENCE
RF	RELIEF FAN
RG	RETURN GRILLE
RFPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCH	SCHEDULE
SF	SUPPLY FAN, SQUARE FOOT
SENS	SENSIBLE
SG	SUPPLY GRILLE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SO	SCREENED OPENING
SP	STATIC PRESSURE
SS	STAINLESS STEEL, SANITARY SEWER
SQ	SQUARE
TG	TRANSFER GRILLE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VENT
VENT	VENTILATION, VENTILATOR
VTR	VENT THRU ROOF
W	WASTE, WATT, WIDE
WB	WET BULB (TEMPERATURE)

# SYMBOLS



# DRAWING INDEX

Sheet Number	Sheet Title	PERMIT SET 06/27/2025					
M0.1	LEGEND, GENERAL NOTES, & DRAWING INDEX	X					
M0.1	MECHANICAL SCHEDULES & WSEC FORMS	X					
M2.0	HVAC PLAN FLOOR PLAN	X					
M2.1	HVAC PLAN ROOF PLAN	X					

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DRAWN:	OP
DESIGNED:	ABE
CHECKED:	PR
APPROVED:	JMR

**PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 1**  
**MULTIFAMILY DEVELOPMENT**  
**PIONEER WAY & SHAW RD. PUYALLUP, WA**

---

**MR. ROBISON**  
**ENGINEERING, INC.**

19401 40TH AVE NW, SUITE 302  
 LYNNWOOD, WA 98036  
 PHONE: (206) 364-3343  
 RE: PROJECT NO. 8100110  
 CONTACT: ARIK ESPINEL

DATE:  
06/25/2025

SHEET TITLE:  
LEGEND, GENERAL NOTES,  
& DRAWING INDEX

SHEET NO.

# MO.0

<b>SCHEDULES</b>
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ROOFTOP HVAC UNIT SCHEDULE																
EQUIP NO.	SERVICE	DISCHARGE	SUPPLY FAN			PROVIDE 100% OSA ECONOMIZER?	COOLING		HEATING			ELECTRICAL			WEIGHT, LBS	BASIS OF DESIGN (1)
			AIRFLOW, CFM	ESP, IN WG	MOTOR HP		CAPACITY, MBH	IEER/ EER	CAPACITY @ 47F MBH	CAPACITY @ 17F MBH	COP	VOLTAGE	MCA	MOCP		
RTU-1	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-2	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-3	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C
RTU-4	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C

- |        |  |
|--------|--|
| NOTES: | (1) PROVIDE FACTORY INSTALLED TWO STAGE COOLING MODES<br>(2) PROVIDE FACTORY INSTALLED ELECTRO-MECHANICAL CONTROLS<br>(3) PROVIDE FACTORY INSTALLED RETURN AIR SMOKE DETECTOR<br>(4) PROVIDE FACTORY INSTALLED ULTRA LOW-LEAK DOWNFLOW ECONOMIZER W/ DRY BULB SENSOR<br>(5) PROVIDE FACTORY INSTALLED NON FUSED DISCONNECT SWITCH<br>(6) PROVIDE FACTORY INSTALLED HINGED PANELS<br>(7) PROVIDE FIELD INSTALLED 14" ROOF CURB<br>(8) PROVIDE FIELD INSTALLED OVERFLOW SWITCH<br>(9) PROVIDE FIELD INSTALLED LOW AMBIENT CONTROL<br>(10) PROVIDE FIELD INSTALLED FILTRATION-MERV13<br>(11) PROVIDE FIELD INSTALLED 4H/2C COMMERCIAL 7DAY PROGRAMMABLE WI-FI CAPABLE HUM/DEHUM THERMOSTAT<br>(12) REFRIGERANT TO BE R-410A.<br>(13) FOR PRICING, CALL KATE HOWE, 425-213-1178, OR EMAIL <KATEH@AIRREPS.COM>. |
|--------|--|

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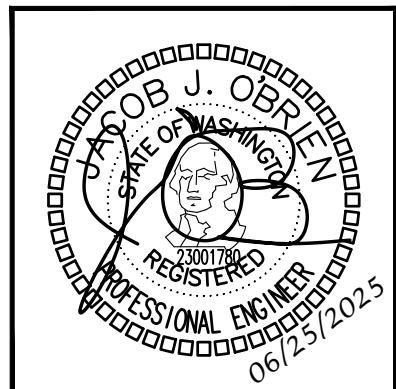
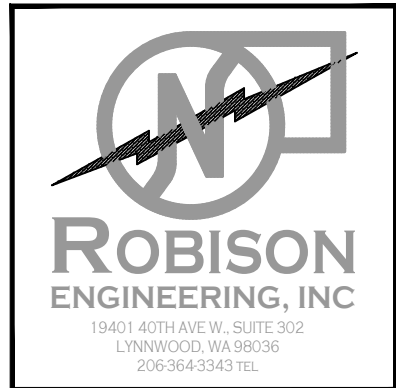
- NOTES: (1) PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS.

PUBLIC SPACES OUTSIDE AIR VENTILATION CALCULATIONS (1)								
ROOM	ROOM SQUARE FOOTAGE	ROOM OCCUPANTS	MINIMUM CFM PER SQUARE FOOT	MINIMUM CFM PER PERSON	MINIMUM REQUIRED CFM BY AREA	MINIMUM REQUIRED CFM BY PERSON	TOTAL REQUIRED OSA CFM (AREA + PEOPLE)	TOTAL OSA CFM PROVIDED
LOBBY/ RECEPTION	308	10	0.06	5	18	50	68	100
TRAINING AREA	378	10	0.06	20	23	200	223	250

- NOTES: (1) VENTILATION RATES ARE PER THE 2018 IMC, TABLE 403.4.2.  
(2) OUTSIDE AIR TO ROOM PROVIDED VIA ENERGY RECOVERY VENTILATOR (ERV-4).  
(3) OUTSIDE AIR TO ROOM PROVIDED VIA ENERGY RECOVERY VENTILATOR (ERV-5).

ELECTRIC HEATERS					
EQUIP NO.	SERVICE	MOUNTING/ DISCHARGE	HEATING	ELECTRICAL	BASIS OF DESIGN (3)
			KW	VOLTAGE	
EPWH-1.0	RISER ROOM	WALL	1.0	208V/1P	(1)(2)

- NOTES:(1) BROAN, KING, CADET OR EQUIVALENT.  
(2) PROVIDE INTEGRAL THERMOSTAT.  
(3) ALL ELECTRIC HEATERS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

[illegible]

DRAWN:	OP
DESIGNED:	ABE
CHECKED:	PR
APPROVED:	JMR

PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 1  
 MULTIFAMILY DEVELOPMENT  
 PIONEER WAY & SHAW RD. PUYALLUP, WA

---

 **ROBISON**  
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 CONTACT: ARIK ESPINELL

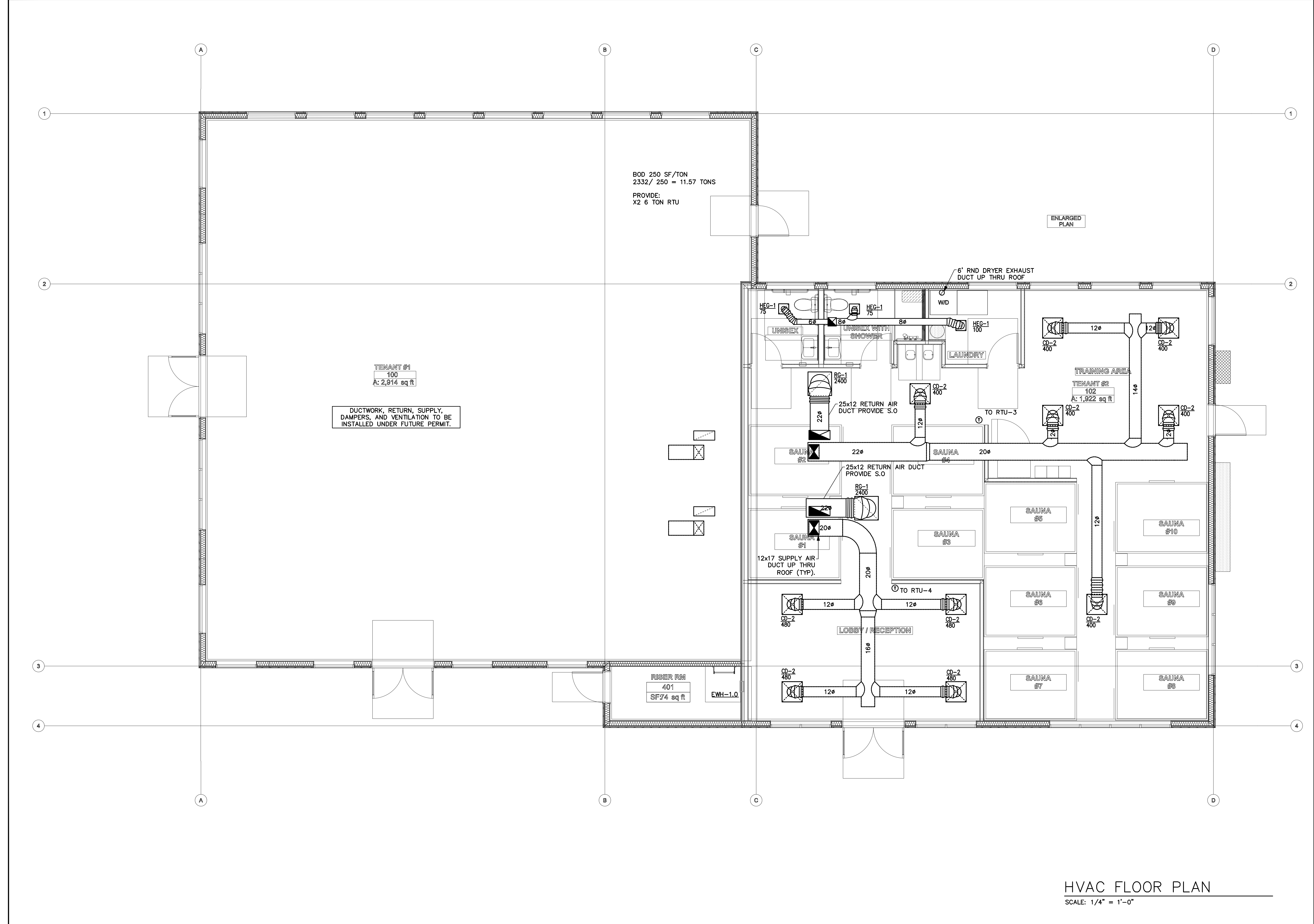
DATE:  
06/25/2025

SHEET TITLE:  
MECHANICAL SCHEDULES


SHEET NO.

**M0.1**

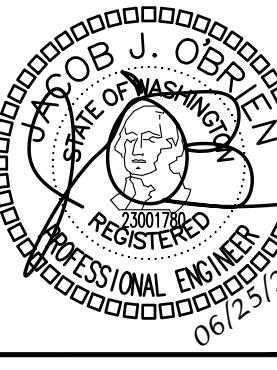




DESCRIPTION		REVISIONS	
NO.	DATE		



**ROBISON**  
ENGINEERING, INC.  
19401 40TH AVE W, SUITE 302  
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206.864.4340 TEL




ROB J. OBREGON  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
06/25/2025

OP	OP
DRAWN:	ABE
DESIGNED:	PR
CHECKED:	JMR
APPROVED:	JMR

PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 1  
MULTIFAMILY DEVELOPMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302  
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PHONE: 206.864.4343  
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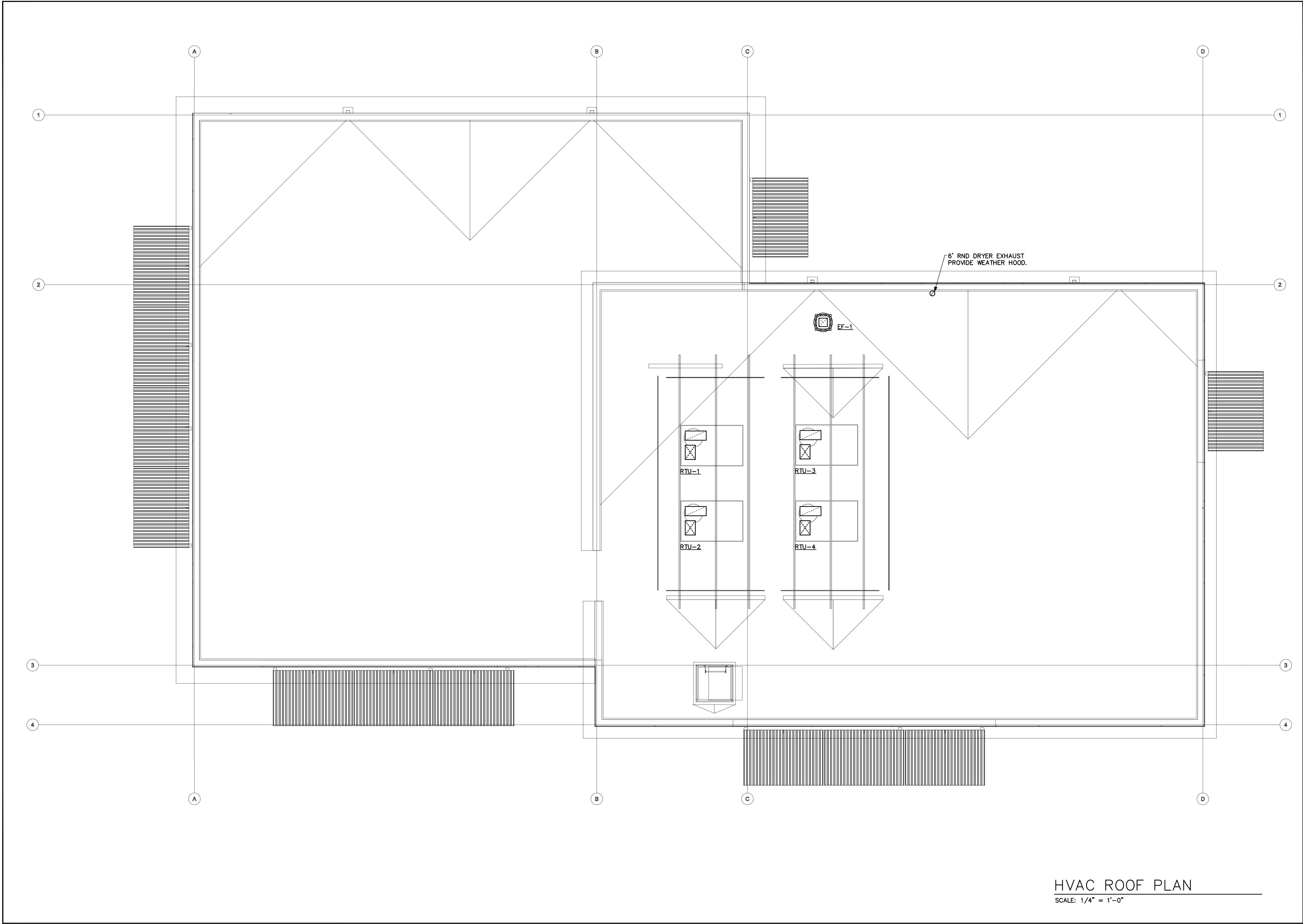


**ROBISON**  
ENGINEERING, INC.

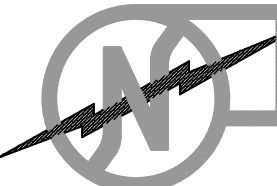
DATE:
06/25/2025

SHEET TITLE:
HVAC PLAN FLOOR PLAN

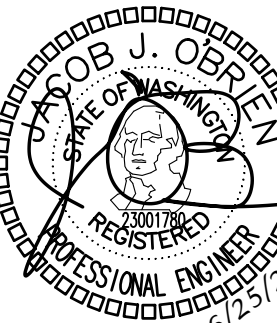
SHEET NO.
M2.0



DESCRIPTION		DATE		NO.		REVISIONS	



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(206) 834-3343




Rob J. Obregon  
Professional Engineer  
06/25/2025

OP	OP
DRAWN: ABE	DRAWN: ABE
DESIGNED: ABE	DESIGNED: ABE
CHECKED: PR	CHECKED: PR
APPROVED: JMR	APPROVED: JMR

PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 1  
MULTIFAMILY DEVELOPMENT  
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**ROBISON**  
ENGINEERING, INC.

DATE:
06/25/2025

SHEET TITLE:
HVAC PLAN ROOF PLAN

SHEET NO.
M2.1





PLUMBING TABLES

PIPE MATERIALS			
PIPE TYPE	MATERIAL	JOINT	NOTES
UNDERGROUND WATER SERVICE ENTRANCE PIPING	STAINLESS	THREADED, WELDED OR PROPPRESS	2
WATER DISTRIBUTION PIPING - MAIN DISTRIBUTION PIPING	SCHEDULE 80 CPVC	SOLVENT CEMENT	4
UNDERGROUND WASTE AND VENT PIPING	SCHEDULE 40 SOLID WALL PVC	SOLVENT CEMENT	
ABOVE GROUND WASTE AND VENT PIPING	SCHEDULE 40 ABS OR PVC	SOLVENT CEMENT	
CONDENSATE DRAIN PIPING	COPPER, TYPE M	SOLDERED	3

NOTES:

- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.
- CPVC IS ACCEPTABLE FOR CONDENSATE PIPING IN LIEU OF COPPER IF APPROVED BY AHJ.
- PROVIDE THERMAL EXPANSION LOOPS FOR ALL WATER PIPING PER MANUFACTURER REQUIREMENTS.

SERVICE	INSULATION		VAPOR RETARDER REQUIRED	NOTES
	CONDUCTIVITY (Btu" in./ (h"ft <sup>2</sup> "F)	THICKNESS		
DOMESTIC COLD WATER, IRRIGATION WATER, CONDENSATE DRAINS, STORM DRAIN (IN CONDITIONED SPACE)	0.21-0.27	<1" PIPE: 0.5" ALL OTHER SIZES: 1"	YES	12,13
DOMESTIC COLD WATER, IRRIGATION WATER, CONDENSATE DRAINS, WASTE (OUTSIDE THE CONDITIONED SPACE)	0.21-0.27	<1½" PIPE: 1" ALL OTHER SIZES: 1.5"	YES	1,7,8,10
DOMESTIC HOT WATER AND RECIRCULATED HOT WATER (OUTSIDE THE CONDITIONED SPACE)	0.21-0.28	<1½" PIPE: 1" ALL OTHER SIZES: 1.5"	NO	1,2
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FOR ADA FIXTURES	TRUEBRO LAV-GUARD	N/A	NO	11

NOTES:

- PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL PROVIDE ALUMINUM JACKET SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
- PER 2021 WSEC SECTION C404.6 (COMMERCIAL) INSULATION FOR HOT WATER PIPE SHALL HAVE A MINIMUM R-VALUE OF R-3.
- PIPING FROM WATER HEATER TO THE TERMINATION OF HEATED WATER SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.2.9.
- ON BOTH THE INLET AND OUTLET PIPING OF A STORAGE HOT WATER HEATER, THE FIRST 8 FEET OF PIPING OR PIPING FROM WATER HEATER TO HEAT TRAP SHALL BE INSULATED.
- HEAT TRACED PIPING SHALL BE INSULATED IN THE SAME MANNER AS NON HEAT TRACED PIPING OR PER THE HEAT TRACE MANUFACTURERS INSTRUCTIONS.
- TUBULAR PIPING INSULATION SHALL NOT BE REQUIRED FOR THE FOLLOWING:
  - THE TUBING FROM THE CONNECTION AT THE TERMINATION OF THE FIXTURE SUPPLY PIPING TO A PLUMBING FIXTURE OR PLUMBING APPLIANCE.
  - VALVES, PUMPS, STRAINERS, AND THREADED UNIONS IN PIPING THAT IS 1 INCH OR LESS IN NOMINAL DIAMETER.
  - PIPING FROM USER-CONTROLLED SHOWER AND BATH MIXING VALVES TO THE WATER OUTLETS.
  - COLD WATER PIPING OF A DEMAND RECIRCULATION WATER SYSTEM.
  - TUBING FROM A HOT DRINKING-WATER HEATING UNIT TO THE WATER OUTLET.
  - PIPING AT LOCATIONS WHERE A VERTICAL SUPPORT OF THE PIPING IS INSTALLED.
  - PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE (R-VALUE) OF NOT LESS THAN R-3.
  - HOT WATER PIPING THAT IS PART OF THE FINAL PIPE RUN TO THE PLUMBING FIXTURE AND IS NOT PART OF THE HEATED-WATER CIRCULATION SYSTEM CIRCULATION PATH IS NOT REQUIRED TO MEET THE MINIMUM INSULATION REQUIREMENTS OF C404.6.
- PER 2021 UPC SECTION 312.6 NO WATER, SOIL, OR WASTE PIPE SHALL BE INSTALLED OUTSIDE OF A BUILDING, IN ATTICS OR CRAWL SPACES, OR IN AN EXTERIOR WALL UNLESS, WHERE NECESSARY, ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPE FROM FREEZING. ALL HOT AND COLD WATER PIPES OUTSIDE THE CONDITIONED SPACE SHALL BE PROVIDED WITH INSULATION WITH A MINIMUM R-VALUE OF R-3.
- HEAT TRACING SHALL BE PROVIDED FOR COLD WATER AND IRRIGATION WATER IN UNCONDITIONED SPACES. CONTACT ENGINEERING IF NECESSARY. PER 2021 WSEC SECTION C403.12.3 FREEZE PROTECTION SYSTEMS, SUCH AS HEAT TRACING OF OUTDOOR PIPING, SHALL INCLUDE AUTOMATIC CONTROLS CONFIGURED TO SHUT OFF THE SYSTEMS WHEN OUTDOOR AIR TEMPERATURES ARE ABOVE 40°F.
- PER 2021 WSEC TABLE C403.2.9 INSULATION FOR HOT WATER AND HOT WATER RECIRCULATION SHALL HAVE A THERMAL CONDUCTIVITY OF 0.21-0.28 (BTU/INH.FT.<sup>2</sup>.F) AT OPERATING TEMPERATURE.
- INSULATION R-VALUE SHALL MEET THE MINIMUM REQUIREMENT. THICKNESS IS BASED ON GRAINGER SAMPLE DATA FOR K-FLEX(PVC/NBR) AND OWENS CORNING(FIBER GLASS).
- ALL ADA P-TRAPS, HOT WATER SUPPLY TUBING, AND SHUT-OFF COCKS SHALL BE PROTECTED WITH APPROVED COVERS TO PREVENT SCALDING.
- REQUIRED BY ENGINEERING BASED ON BEST PRACTICE.
- INSULATION IS NOT REQUIRED ON PLASTIC COLD WATER PIPING.

HANGER SPACING FOR WATER PIPING		
ALL SUSPENDED WATER SUPPLY PIPE SHALL BE SUPPORTED AS FOLLOWS PER 2021 UPC TABLE 313.3:		
	MAX. HORIZONTAL SPACING	MAX. VERTICAL SPACING
CPVC PIPE ≤1"	3 FT.	10 FT.
CPVC PIPE >1½"	4 FT.	10 FT.
STEEL GAS ½"	6 FT.	6 FT.
STEEL GAS ¾"-1"	8 FT.	8 FT.
STEEL GAS > 1½"	10 FT.	10 FT.
PEX ≤ 1"	32 IN.	10 FT.
PEX ≥ 1½"	4 FT.	10 FT.

HANGER SPACING FOR WASTE AND VENT PIPING		
ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS PER 2021 UPC TABLE 313.3:		
	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON HUBLESS*	EVERY OTHER JOINT	15 FT.
*CAST-IRON OVER 4" SHALL BE SUPPORTED AT EVERY JOINT		

PLUMBING FIXTURE FLOW RATES PER 2021 UPC CH. 4

FIXTURE TYPE	FLOW RATE	NOTES
SHOWERHEADS	1.8 GPM @ 80 PSI	
LAVATORY FAUCETS, RESIDENTIAL	1.2 GPM @ 60 PSI	1
LAVATORY FAUCETS, NON-RESIDENTIAL	0.5 GPM @ 60 PSI	2
KITCHEN FAUCETS	1.8 GPM @ 60 PSI	3
GRAVITY TANK-TYPE WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER TANK WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER VALVE WATER CLOSETS	1.28 GALLONS/FLUSH	4
ELECTROMECHANICAL HYDRAULIC WATER CLOSETS	1.28 GALLONS/FLUSH	4
URINALS	0.125 GALLONS/FLUSH	

NOTES:

- LAVATORY FAUCETS SHALL NOT HAVE A FLOW RATE LESS THAN 0.8 GPM AT 20 PSI.
- WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS RATED AT 0.35 GPM OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
- KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT ABOVE 2.2 GPM @ 60 PSI AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GPM @ 60 PSI.
- INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OF 1.6 GALLONS OR LESS. SINGLE FLUSH TOILETS – THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.6 GALLONS. THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.2 DUAL FLUSH TOILETS – THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.6 GALLONS. THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. FLUSH VOLUMES WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14.

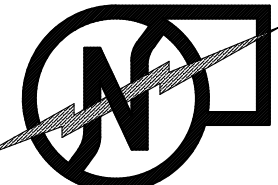
PLUMBING NOTES

- CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.
- HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.
- HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
- VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.
- CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT UPC AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.
- SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH 2021 UPC SECTION 711.0, STATE AND LOCAL CODES.
- SHUT-OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT-OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATHSHOWERS.
- TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
- TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
- ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HAND-LAY GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.
- GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, APPLICABLE SFGC, SPC, LOCAL CODES & NFPA STANDARDS.
- GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER APPLICABLE SFGC, SPC, LOCAL CODES & NFPA STANDARDS. PROVIDE LOCKABLE GAS SHUT-OFF VALVES FOR FIREPLACES & BBQS IN UNATTENDED PUBLIC LOCATIONS IN THE BUILDING.
- GAS PIPING CONNECTIONS TO WATER HEATERS, BOILERS AND FURNACES SHALL HAVE DIRT LEGS AND UNIONS PROVIDED ON APPLIANCE SIDE OF SHUTOFF VALVE.
- GAS PIPING INSTALLATION: STEEL OR MALLEABLE IRON FUEL LINES 2" OR SMALLER SHALL BE ASSEMBLED USING THREAD SEALANT SUITABLE FOR NATURAL GAS. GAS PIPING LARGER THAN 2" SHALL HAVE WELDED FITTINGS.
- GAS PIPING UNDERGROUND: WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
- GAS PIPING ABOVE GROUND: WHERE PASSING THROUGH AN OUTSIDE WALL, GAS PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
- GAS PIPE SUPPORT: FUEL LINES SHALL BE SUPPORTED OR STRAPPED, AND SHALL BE PLUMB AND SQUARE.
- GAS PIPING ON ROOFTOPS SHALL BE SUPPORTED AND ANCHORED TO THE ROOF.
- GAS PIPING SHALL NOT BE BURIED UNDER A BUILDING, SLAB OR OTHER STRUCTURE.
- GAS PIPING PROTECTIVE COATING: PAINT ALL EXTERIOR EXPOSED GAS PIPING WITH TWO COATS OF RUST INHIBITIVE PAINT. COLOR: GRAY.
- WATER HAMMER ARRESTORS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
- TRAP PRIMERS AS SPECIFIED: PROVIDE TRAP PRIMERS AND PIPING FOR FLOOR DRAINS, FLOOR SINKS, AREA DRAINS & HUB DRAINS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS. COORDINATE EXACT LOCATIONS WITH ARCHITECT & ELECTRICAL ENGINEER.
- P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS. P-TRAPS SERVING HANDICAPPED COUNTER TOP LAVATORIES SHALL BE INSULATED.
- THROUGHOUT THE PROJECT PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.
- HOT WATER RECIRCULATING BALANCING VALVES SHOULD BE BELL & GOSSETT CIRCUIT SETTER (WATTS OR EQUAL) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.
- DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
- REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
- VALVE TAGS: PROVIDE VALVE TAGS PER SPECIFICATIONS TO IDENTIFY VALVE AND THE AREA IT SERVES.
- OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- ALL TEMPERATURE MIXING VALVES SHALL COMPLY WITH ASSE-1070 SAFETY STANDARDS.
- PROVIDE PIPE MARKER WITH DIRECTION OF FLOW. LABEL "NON-POTABLE WATER DO NOT DRINK" CLEARLY ON NON-POTABLE WATER PIPING.
- PROVIDE EXPANSION LOOPS/EXPANSION JOINTS IN PIPING PER 2021 UPC TABLE 313.3 AND MANUFACTURER INSTALLATION INSTRUCTIONS.
- PROVIDE APPROVED PIPE HANGERS & PIPE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND 2021 UPC TABLES 313.3 & 313.6. SUBMIT FOR APPROVAL.
- DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.
- PIPING & EQUIPMENT SUPPORTS/HANGERS & SEISMIC RESTRAINTS TO BE DESIGNED BY DESIGN BUILT CONTRACTOR.
- IF NEEDED, PROVIDE VACUUM BREAKERS AT ALL HOSE BIBBS.
- FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS IN ACCORDANCE WITH 2021 UPC 1007.0.
- INSULATION MATERIAL SHALL MEET CITY OF PUYALLUP QUALITY STANDARDS.
- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE 2021 WASHINGTON STATE ENERGY CODE.
- BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH 2021 UPC 701.0 AND 903.0.
- ALL SANITARY SYSTEM MATERIAL SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- ALL STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL PER 2021 UPC 608.3.
- WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENTS DUE TO SEISMIC MOTION PER 2021 UMC 507.2.
- MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH 2021 IMC 602.2.1.
- HVAC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH 2021 IMC CHAPTER 3.
- BOILERS SHALL COMPLY WITH ALL THE REQUIREMENTS OF 2021 UPC 505.4.
- PROVIDE EXPANSION TANKS FOR BOILERS PER 2021 UPC SECTION 608.3.
- SHOWERS AND TUB/SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER 2021 UPC 408.0.
- PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH CITY OF PUYALLUP WATER CONSERVATION STANDARDS.
- CONTRACTOR SHALL PROVIDE FIRESTOPPING AT PENETRATIONS AS NECESSARY TO RETAIN THE FIRE RATING OF ALL ASSEMBLIES. ALL WORK SHALL BE IN COMPLIANCE WITH CODE REQUIREMENTS FOR THE BUILDING CONSTRUCTION TYPE.
- ALL GARAGE DRAINS, TRASH ROOMS DRAINS & GARAGE TRENCH DRAINS SHALL BE TAKEN TO SAND/OIL INTERCEPTOR(S) BEFORE CONNECTING TO THE SANITARY SEWER SYSTEM.
- PLUMBING CONTRACTOR SHALL PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS OR OTHER APPROVED BACKFLOW PREVENTION DEVICE WHERE REQUIRED BY HEALTH AUTHORITIES, FOOD SERVICE DRAWINGS, APPLIANCE MANUFACTURER INSTRUCTIONS AND BY CODE.

PROVIDE REQUIRED & PROPER BACK FLOW PREVENTERS AS SPECIFIED FOR THE APPLIANCES INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

  - ICE MACHINES AND ICE MAKERS
  - CARBONATED BEVERAGE DISPENSING SYSTEMS
  - COFFEE BREWERS
  - ESPRESSO MACHINES
  - WATER FILTERS
  - STEAM OR HOT WATER BOILERS
  - IRRIGATION SYSTEM
  - FIRE PROTECTION SYSTEM
  - CHEMICAL TREATMENT SYSTEM
  - SOAP/CHEMICAL DISPENSER SYSTEM
  - COMMERCIAL WASHER

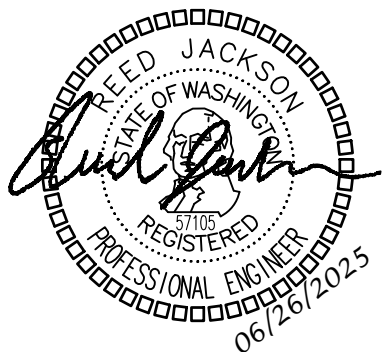
REVIEWS	DESCRIPTION	DATE	PERMIT RESUBMITTAL			
NO.	1.	4/24/25				



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ENGINEERING, INC.

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206-864-3343 TEL

CONTACT: JEFF MACGILLIVRAY



DRAWN: JM	DESIGNED: JM	CHECKED: RJ	APPROVED: RJ
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PROJECT: **EAST TOWN CROSSING**  
**MULTIFAMILY DEVELOPMENT**  
**PIONEER WAY & SHAW RD. PUYALLUP, WA**

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LYNNWOOD, WA 98036  
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**ROBISON**  
ENGINEERING, INC.

PERMIT PLANS
08/11/2025
SHEET TITLE: PLUMBING NOTES AND TABLES
SHEET NO. P0.01



PLUMBING CALCULATIONS

DOMESTIC WATER PRESSURE CALCULATIONS				PRESSURE CHANGE (PSI)	RESIDUAL PRESSURE (PSI)
BASED ON 2021 UPC APPENDIX A					
(PVC) WATER ENTRY TO BOOSTER PUMP					
STREET PRESSURE, PSI					55
PER CALL WITH PUYALLUP WATER DIVISION, PRESSURE RANGE IS 55-60 PSI.					
HIGH-FLOW PRESSURE LOSS ALLOWANCE				-4	51
EQUIPMENT LOSSES, PSI					
CIVIL WATER METER				-5	46
CIVIL BACKFLOW PREVENTER				-12	34
SITE SERVICE LINE FRICTION LOSSES(ESTIMATE)					
PIPING SYSTEM LENGTH, FEET		60			
FITTING ALLOWANCE, FEET		20			
AVERAGE FRICTION LOSS FACTOR, PSI/100'		7.0			
TOTAL PIPING FRICTION LOSS				-5.6	28.4
STATIC HEAD, PSI					
TOTAL ELEVATION GAIN, FEET		3		-1.299	27.1
FROM UNDERGROUND WATER SERVICE TO BUILDING WATER ENTRY POINT					
MIN. PRESSURE AT BOOSTER PUMP INLET					27.1
(CPVC) BOOSTER PUMP TO FURTHEST TENANT SUB-METER					
BOOSTER PUMP GAIN					
MINIMUM PRESSURE AT BOOSTER PUMP INLET, PSI					27.1
BOOSTER PUMP PRESSURE GAIN, PSI					52.9
BOOSTER PUMP DISCHARGE PRESSURE, PSI					80.0
STATIC HEAD, PSI					
TOTAL ELEVATION GAIN, FEET		8		-3.464	76.5
PIPING FRICTION LOSSES					
PIPING SYSTEM LENGTH, FEET		110			
FITTING ALLOWANCE, FEET		27.5			
AVERAGE FRICTION LOSS FACTOR, PSI/100'		7.0			
PIPING FRICTION LOSS				-9.625	66.9
MIN. PRESSURE AT FURTHERST UNIT SUB-METER					66.9
(CPVC) FURTHEST ANTICIPATED FIXTURE IN TI					
EQUIPMENT LOSSES PSI					
TENANT SUB-METER				-5	61.9
PEX PIPING FRICTION LOSSES					
PIPING SYSTEM LENGTH, FEET		100			
FITTING ALLOWANCE, FEET		25			
ZONE FRICTION LOSS FACTOR, PSI/100'		7.0			
PIPING FRICTION LOSS				-8.75	53.2
MINIMUM PRESSURE AT FURTHEST FIXTURE, PSI					53.2

FIXTURE UNIT CALCULATIONS - LOT 1											
CALCULATIONS BASED ON 2021 UPC TABLES A103.1 AND 702.1.											
PUBLIC SPACES / MISC.											
FIXTURE	FIXTURE UNITS				FLOOR		TOTAL QTY OF FIXTURES	TOTAL FIXTURE UNITS			
	TOTAL	CW	HW	W/V	1	R		SERVICE	CW ONLY	HW ONLY	W/V ONLY
SUITE 1 COMMERCIAL	30	30	0	40	1	0	1	30	30	0	40
SUITE 2 COMMERCIAL	30	30	0	40	1	0	1	30	30	0	40
HUB DRAIN - 4"	0	0	0	8	1	0	1	0	0	0	8
FLOOR DRAIN - 4"	0	0	0	8	1	0	1	0	0	0	8
HOSE BIB	2.5/1	2.5/1	0	0	2	0	2	3.5	3.5	0	0
								63.5	63.5	0	96
TOTAL		CW	HW	W/V							
TOTAL FIXTURE UNITS:		63.5	63.5	0	96						
DOMESTIC WATER PEAK FLOW:		34.2 GPM									
REQUIRED SERVICE SIZES IN BUILDING:											
				DOMESTIC WATER			SEWER SIZE				
				SERVICE SIZE:			4"				
							1/4" PER FT				

		REVISIONS	
NO.	DATE	DESCRIPTION	
1.	6/24/25	PERMIT RESUBMITTAL	



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PERMIT PLANS
08/11/2025

SHEET TITLE: PLUMBING CALCULATIONS
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SHEET NO. P0.02
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PLUMBING SCHEDULES

SUPPLY PIPE SIZING SCHEDULE - CPVC											
FRICTION LOSS FACTOR:									7.0 PSI/100 FT		
PIPE SIZE	COLD WATER, FLUSH TANK			COLD WATER, FLUSH VALVE			HOT WATER			HOT WATER RECIRCULATION	
	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FLOW, GPM	VELOCITY, FPS
1/2"	1.8	2.80	3.90	---	---	---	3.2	3.20	4.40	1.50	2.00
3/4"	7.5	6.50	4.80	---	---	---	7.7	6.70	5.00	2.70	2.00
1"	15.2	11.20	5.00	---	---	---	15.2	11.20	5.00	4.50	2.00
1-1/4"	30.0	20.00	5.00	---	---	---	30.0	20.00	5.00	8.00	2.00
1-1/2"	46.3	27.50	5.00	10.5	27.50	5.00	46.3	27.50	5.00	11.00	2.00
2"	108.1	46.00	5.00	38.4	46.00	5.00	108.1	46.00	5.00	18.40	2.00
2-1/2"	205.3	66.10	5.00	93.5	66.10	5.00	205.3	66.10	5.00	26.40	2.00
3"	389.7	102.90	5.00	264.7	102.90	5.00	389.7	102.90	5.00	41.20	2.00
4"	807.3	179.20	5.00	779.8	179.20	5.00	807.3	179.20	5.00	71.7	2.0
6"	2738.5	406.20	5.00	2738.5	406.20	5.00	2738.5	406.20	5.00	162.5	2.0

FIXTURE SCHEDULE											
PLAN MARK	FIXTURE TYPE	SERVICE SIZE - INCHES				LOCATION	FINISH	MANUFACTURER	BASIS OF DESIGN MODEL	FLOW RATE, GPM	NOTES
		CW	HW	W	V						
SH-1	SHOWER	1/2	1/2	2	1-1/2	PER DWGS.	TBD	TBD	TBD	1.8 GPM	1-5.7
	IN-WALL VALVE						TBD	TBD	TBD		
	TRIM KIT						TBD	TBD	TBD		
LV-1	LAVATORY	1/2	1/2	1-1/2	1-1/2	PER DWGS.	TBD	TBD	TBD	0.5 GPM	1-5
	FAUCET						TBD	TBD	TBD		
WC-1	WATER CLOSET (VALVE) SEAT	1 1/4"	----	3	2	PER DWGS.	TBD	TBD	TBD	1.28 GPF	1-6
WB-1	WASHER BOX	3/4	3/4	2	1-1/2	PER DWGS.	TBD	TBD	TBD	N/A	1-5
HB-1	WALL HYDRANT	3/4	----	----	----	PER DWGS.	N/A	WOODFORD	B65	N/A	1-3,5,8

- NOTES:
- REFER TO ARCH PLANS FOR MOUNTING HEIGHT.
  - CONTRACTOR SHALL CONFIRM MAKE, MODEL, AND FINISH OF ALL FIXTURES WITH OWNER, ARCHITECT, AND INTERIOR DESIGNER PRIOR TO ORDERING.
  - PROVIDE RED/HOT AND BLUE/COLD WATER INDICATORS TO ALL FIXTURES.
  - ALL FIXTURE P-TRAPS SHALL BE CHROME-PLATED BRASS.
  - PROVIDE DAHL 1/4-TURN BALL VALVE ANGLE STOPS WITH BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE EXCEPT SHOWERS AND BATHS. PROVIDE SCREWDRIVER STOPS AT SHOWERS AND BATHS.
  - FLUSH TRIGGER SHALL BE ON WIDE SIDE OF ROOM.
  - SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER UPC SECTION 408.3.
  - PROVIDE LOCKABLE BOX.

EXPANSION TANK							
EQUIP NO.	SERVICE	CAPACITY (GAL)	TANK SIZE		OPERATING WEIGHT (LBS)	BASIS OF DESIGN	NOTES
			DIAMETER (INCHES)	HEIGHT (INCHES)			
ET-1	BOOSTER PUMP	53	24	45	734	AMTROL WX-447C	1,2

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
  - ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.

PACKAGED BOOSTER PUMP										
EQUIP NO.	SERVICE	TYPE	FLOW PER PUMP, GPM	TOTAL FLOW, GPM	SUCTION PRESSURE / DISCHARGE PRESSURE (PSI)	MOTOR HP (PER PUMP)	ELECTRICAL	WEIGHT, LBS	BASIS OF DESIGN	NOTES
BP-1	DOMESTIC WATER	TRIPLEX	25.6	76.8	27 / 80	2	208V/15.3A	860	FLOWTHERM FMV3-1 NW	1,2,3,4,5

- NOTES:
- SINGLE POINT CONNECTION.
  - PROVIDE ALL REQUIRED VALVES, PIPING, CONTROLS, ETC. FOR A COMPLETE SYSTEM.
  - PROVIDE VFD'S FOR EACH PUMP.
  - ALL CLEAR WATER PUMPS OVER 2 HORSEPOWER SHALL COMPLY WITH US DEPARTMENT OF ENERGY (DOE) PUMP EFFICIENCY REQUIREMENTS. APPLICABLE PUMPS SHALL BEAR A PUMP EFFICIENCY INDEX (PEI) LABEL.
  - INSTALL PER MANUFACTURER'S RECOMMENDATION AND STATE AND LOCAL AHJ REQUIREMENTS.

GREASE INTERCEPTOR				
EQUIP NO.	SERVICE	LIQUID CAPACITY (GAL)	BASIS OF DESIGN	NOTES
GI-1	COMMERCIAL SPACES	1,588	SCHIER GB-1000	1,2

- NOTES:
- PROVIDE TRAFFIC RATED COVER AND CLEAN OUT OUTSIDE OF INTERCEPTOR.
  - PROVIDE HEAT TRACE FOR ALL EXPOSED GREASE WASTE PIPING.

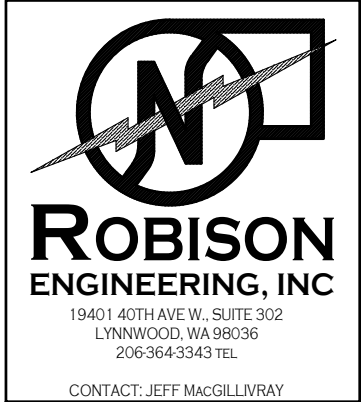
ELECTRIC WATER HEATER									
EQUIP NO.	SERVICE	GPH RECOVERY AT 100°F TR	STORAGE (GAL)	INLET/OUTLET CONNECTION	OPERATING WEIGHT (LBS)	ELECTRICAL		BASIS OF DESIGN	NOTES
						VOLTAGE	HEATER KW		
WH-1	HOT WATER	49	30	¾"	470	208V/3P	12	A.O. SMITH LAC-30-208-12	1,2

- NOTES:
- ELECTRICAL REQUIREMENTS ARE BASED ON NON-SIMULTANEOUS OPERATION.
  - FOR WATER HEATER PIPING DIAGRAM SEE DETAIL 1/P4.0.

HOT WATER CIRCULATION PUMP										
EQUIP NO.	SERVICE	TYPE	FLOW, GPM	HEAD, FT	PUMP RPM	ELECTRICAL VOLTAGE	HP	WEIGHT, LBS	BASIS OF DESIGN	NOTES
HWCP-1	HOT WATER	INLINE	0.5	2	VARIABLE	208/1P	0.1	40	ECOCIRC 20-18	1,2

- NOTES:
- STAINLESS STEEL, SUITABLE FOR POTABLE WATER APPLICATION.
  - ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.

REVISONS	DESCRIPTION	DATE	PERMIT RESUBMITTAL						
		4/24/25							
	1.								



DRAWN: JM	DESIGNED: JM	CHECKED: RJ	APPROVED: RJ
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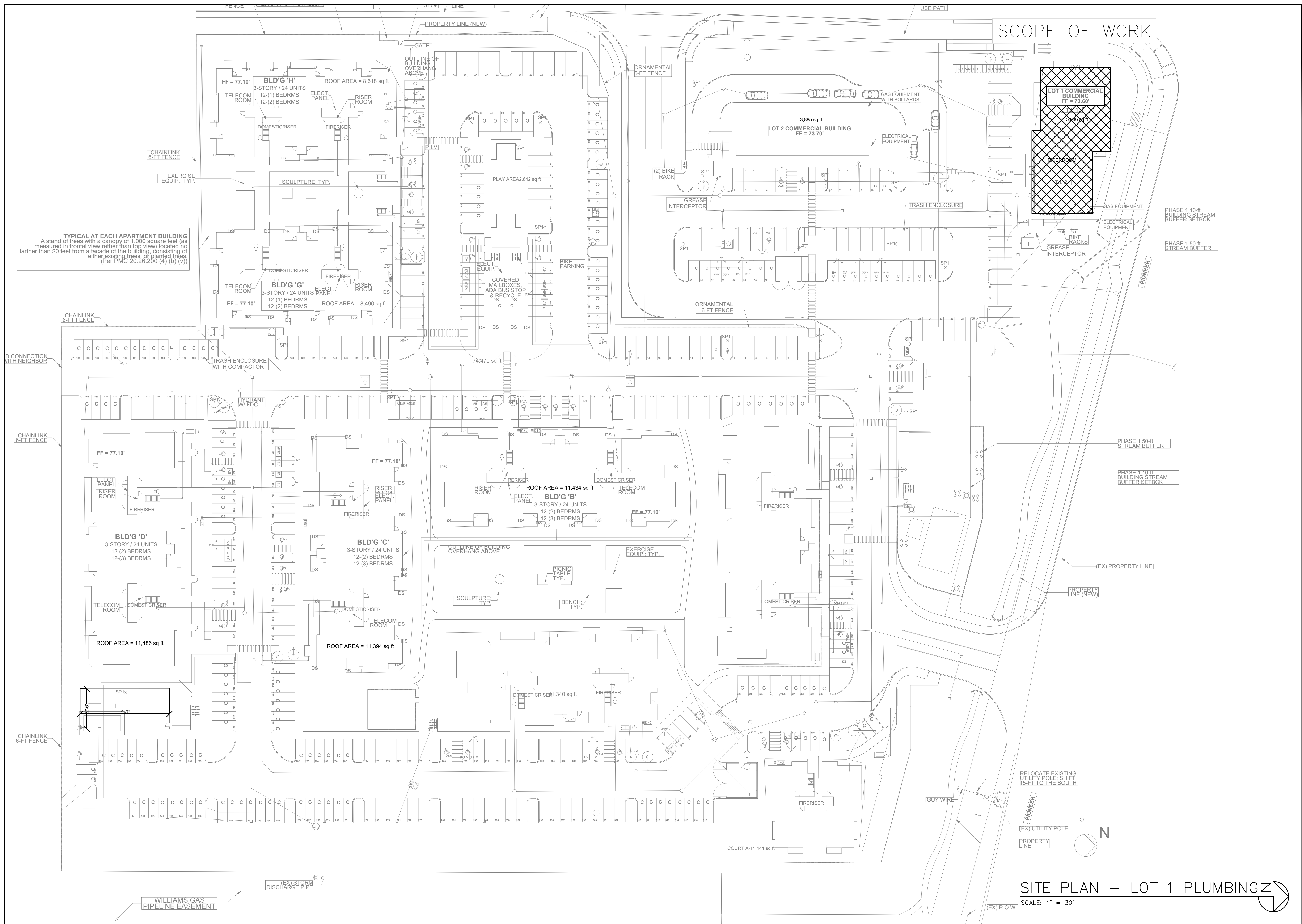
PROJECT: EAST TOWN CROSSING  
MULTIFAMILY DEVELOPMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 864-3343

**ROBISON**  
ENGINEERING, INC

PERMIT PLANS
08/11/2025
SHEET TITLE: PLUMBING SCHEDULES
SHEET NO. P0.03





SCOPE OF WORK

**TYPICAL AT EACH APARTMENT BUILDING**  
A stand of trees with a canopy of 1,000 square feet (as measured in frontal view rather than top view) located no farther than 20 feet from a facade of the building, consisting of either existing trees, or planted trees.  
(Per PMC 20.26.200 (4) (b) (v))

REVISIONS	
NO.	DESCRIPTION
1.	PERMIT RESUBMITTAL

**ROBISON ENGINEERING, INC.**  
19401 40TH AVE. W. SUITE 302  
LYNNWOOD, WA 98036  
206-864-3343 FAX  
CONTACT: JEFF MACGILLIVRAY

JEFF MACGILLIVRAY  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
LICENSE NO. 12060  
EXPIRES 06/12/2025

DRAWN:	DESIGNED:	CHECKED:	APPROVED:
JM	JM	RJ	RJ

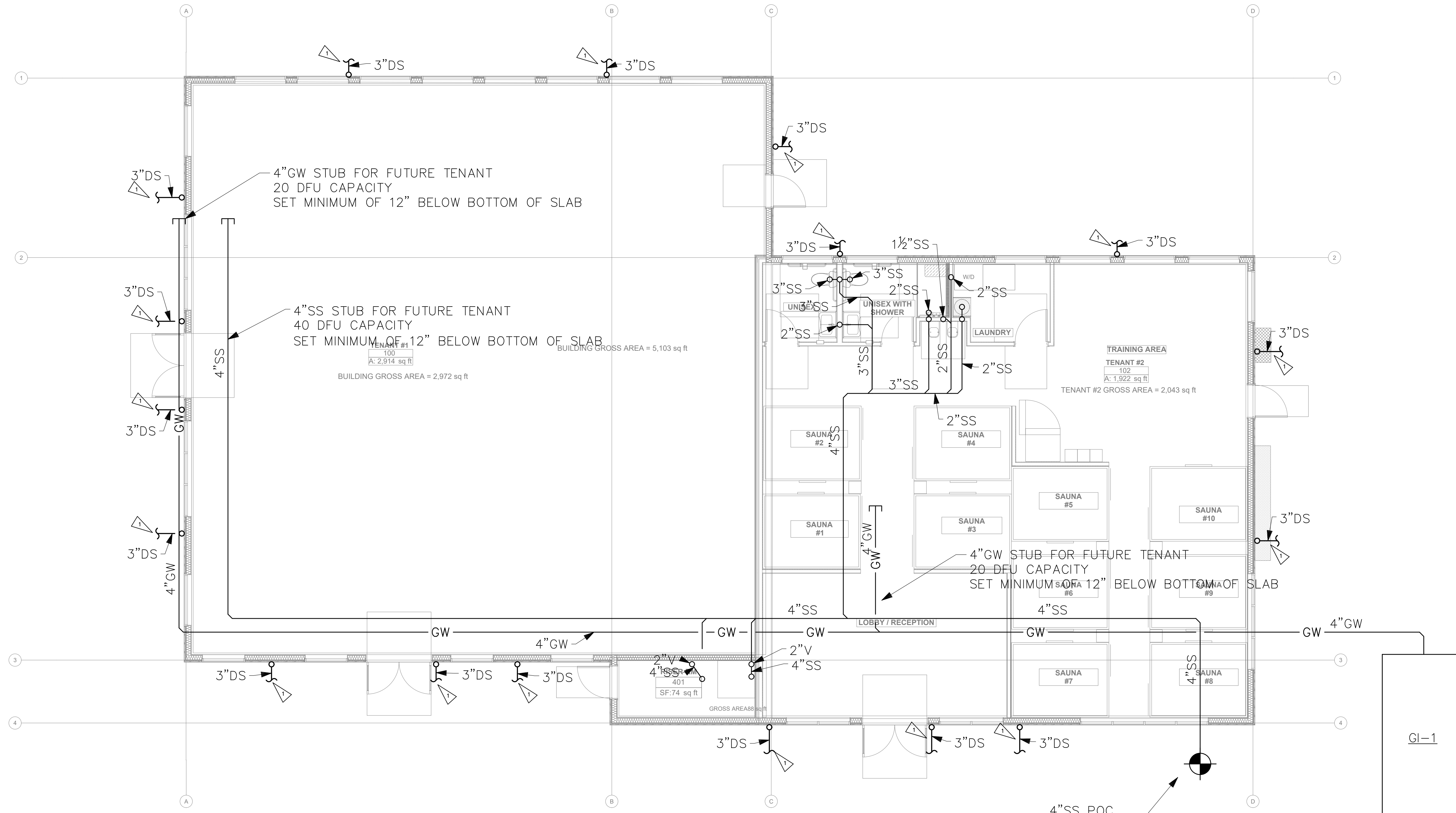
PROJECT: **EAST TOWN CROSSING**  
MULTIFAMILY DEVELOPMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE. W. SUITE 302  
LYNNWOOD, WA 98036  
PHONE: 206-864-3343

**ROBISON ENGINEERING, INC.**

PERMIT PLANS	
08/11/2025	
SHEET TITLE: SITE PLAN - PLUMBING	
SHEET NO. P1.00	

SITE PLAN - LOT 1 PLUMBING  
SCALE: 1" = 30'



GENERAL NOTES

- 1. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
- 2. WASTE & VENT SIZING: WASTE & VENT PIPING IS SIZED PER 2021 UPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" PER FOOT OR 2%. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO STRUCTURAL FEATURES OF THE BUILDING, DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL FROM THE AHJ.

PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

FLAG NOTES

- 1. 3"DOWNSPOUT - SEE CIVIL FOR CONTINUATION.

4"SS POC  
INVERT AT 4' BELOW BOTTOM OF SLAB  
SEE CIVIL FOR CONTINUATION

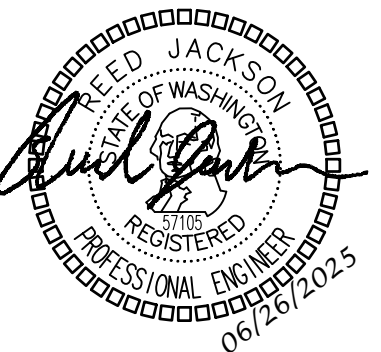
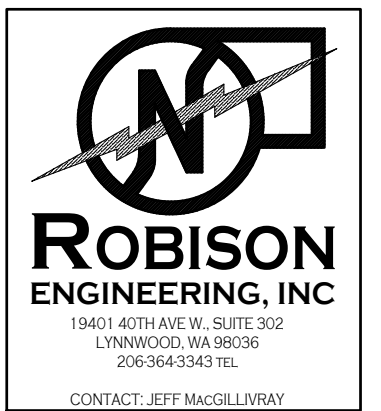
4"SS POC  
INVERT AT 4' BELOW BOTTOM OF SLAB  
SEE CIVIL FOR CONTINUATION

UNDERSLAB WASTE & VENT PLAN

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



REV	DESCRIPTION	DATE
1.	PERMIT RESUBMITTAL	6/7/25



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT:  
**EAST TOWN CROSSING**  
MULTIFAMILY DEVELOPMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

**ROBISON**  
ENGINEERING, INC

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: 206-864-3343

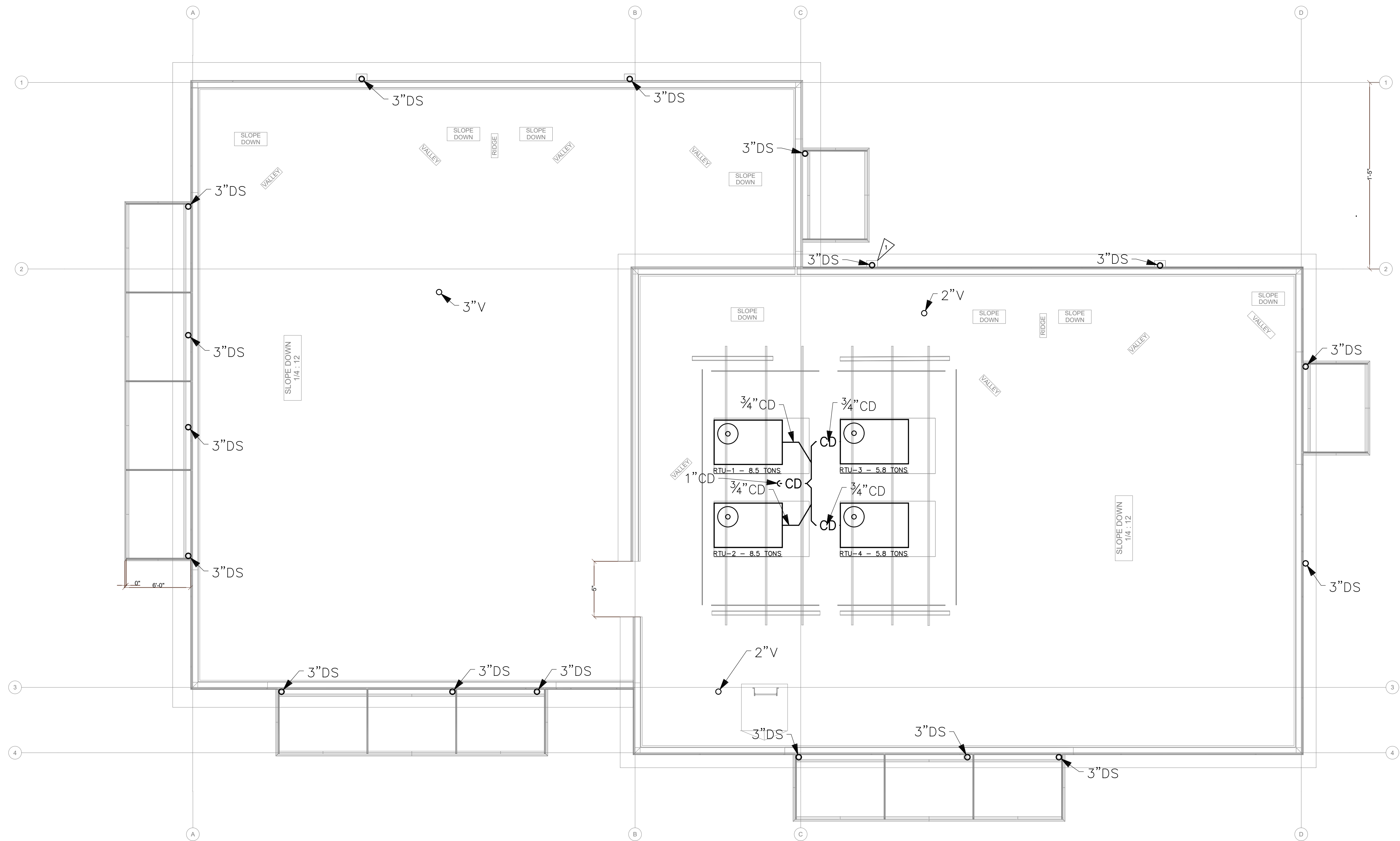
PERMIT PLANS
08/11/2025

SHEET TITLE: LOT 1 - UNDERSLAB WASTE & VENT PLAN
--

SHEET NO. P2.00
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## GENERAL NOTES



GENERAL NOTES

1. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
2. WASTE & VENT SIZING: WASTE & VENT PIPING IS SIZED PER 2021 UPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" PER FOOT OR 2%. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO STRUCTURAL FEATURES OF THE BUILDING, DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL FROM THE AHJ.

PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1 1/2"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

⚠ DOWNSPOUTS LOCATIONS COORDINATED WITH ARCH.

ROOF WASTE & VENT PLAN  
SCALE: 3/16" = 1'-0"



REVISONS	DESCRIPTION	DATE	NO.
1.	PERMIT RESUBMITTAL	6/24/25	



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**  
**MULTIFAMILY DEVELOPMENT**  
**PIONEER WAY & SHAW RD. PUYALLUP, WA**

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: 206-864-3343

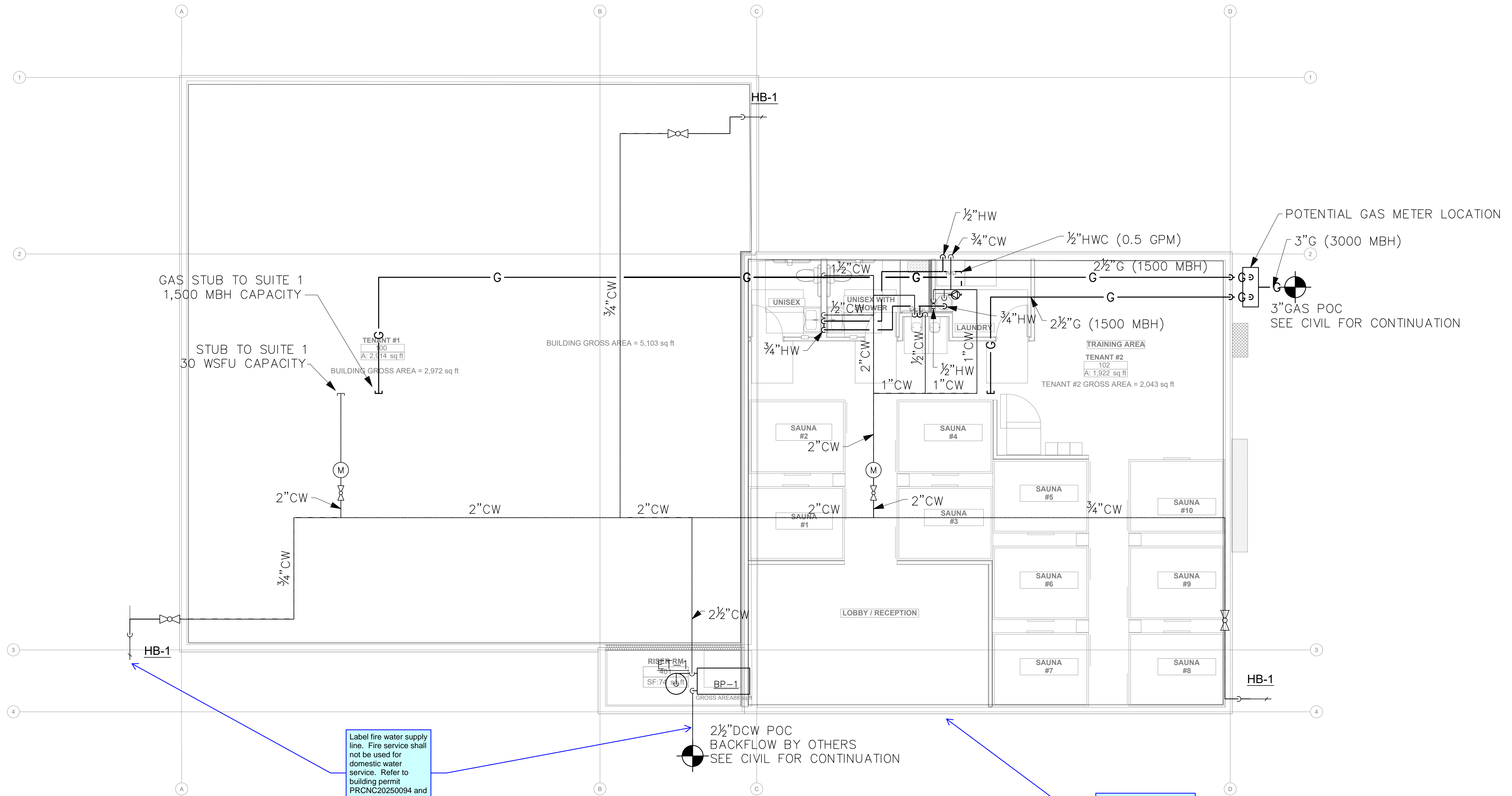
**ROBISON ENGINEERING, INC.**

PERMIT PLANS  
08/11/2025

SHEET TITLE:  
LOT 1 - ROOF  
WASTE & VENT  
PLAN

SHEET NO.  
P.02





**GENERAL NOTES**

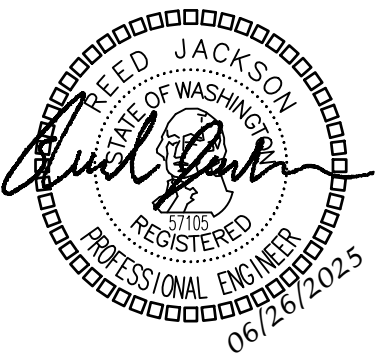
1. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
2. PROVIDE EXPANSION LOOPS FOR ALL SUPPLY PIPING AND INSTALL PER MANUFACTURES RECOMMENDATIONS.

SUPPLY PLAN  
SCALE: 3/16" = 1'-0"

Label fire water supply line. Fire service shall not be used for domestic water service. Refer to building permit PRNC20250094 and civil permit PRCCP20230970.

Correct and label domestic water supply location. Refer to building permit PRNC20250094 and civil permit PRCCP20230970.

REV	NO.	DATE	DESCRIPTION
1.	1.	6/24/25	PERMIT RESUBMITTAL



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**  
**MULTIFAMILY DEVELOPMENT**  
**PIONEER WAY & SHAW RD. PUYALLUP, WA**

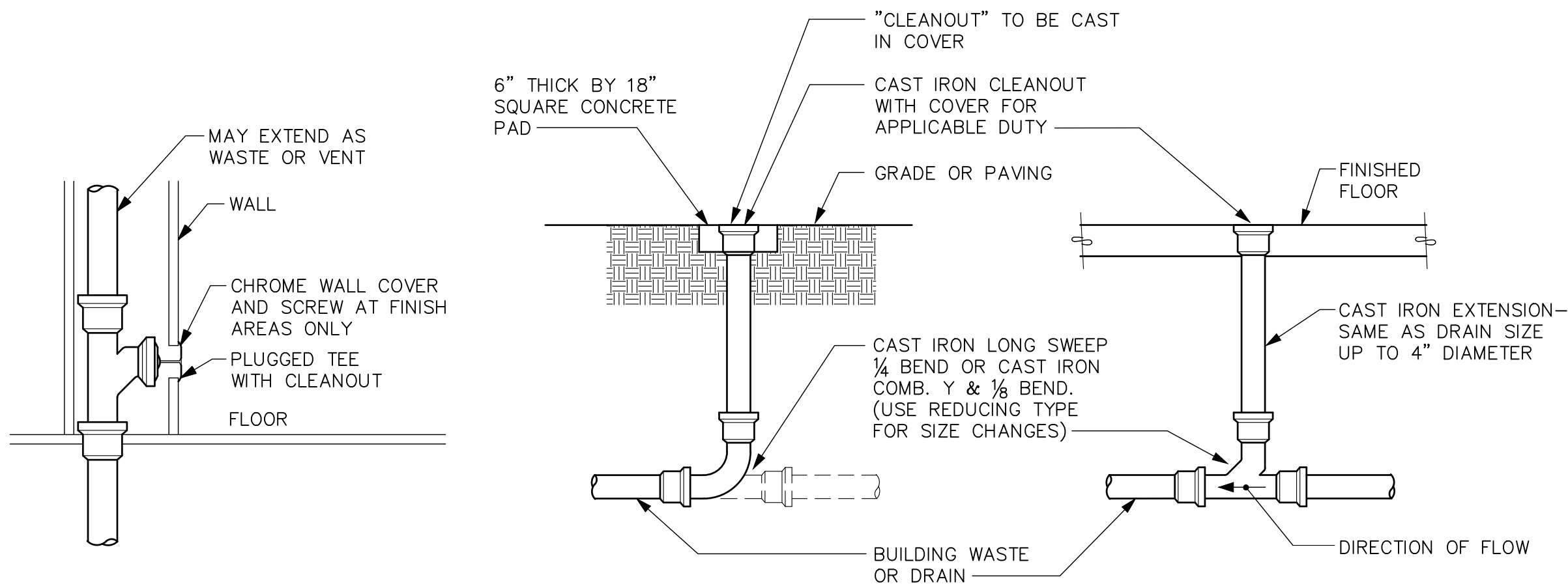
19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: 206-864-3343

**ROBISON ENGINEERING, INC.**

PERMIT PLANS  
08/11/2025

SHEET TITLE:  
LOT 1 - FLOOR 1  
SUPPLY PLAN

SHEET NO.  
P3.01

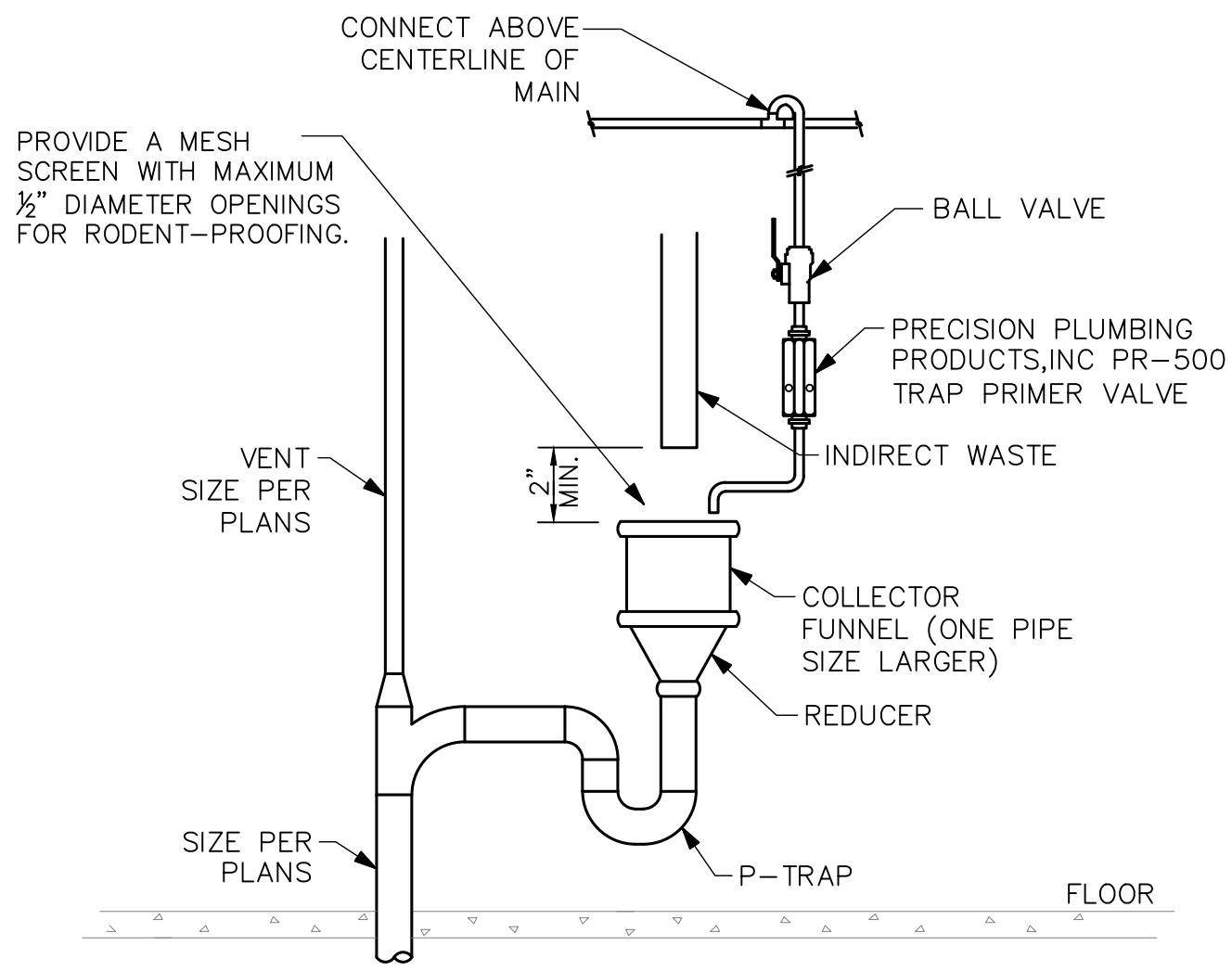


INTERIOR WALL CLEANOUT (WCO)      EXTERIOR CLEANOUT TO GRADE (COTG)  
(LIGHT TRAFFIC AREA)      INTERIOR FLOOR CLEANOUT (FCO)

CLEANOUTS  
DETAIL

SCALE: NONE

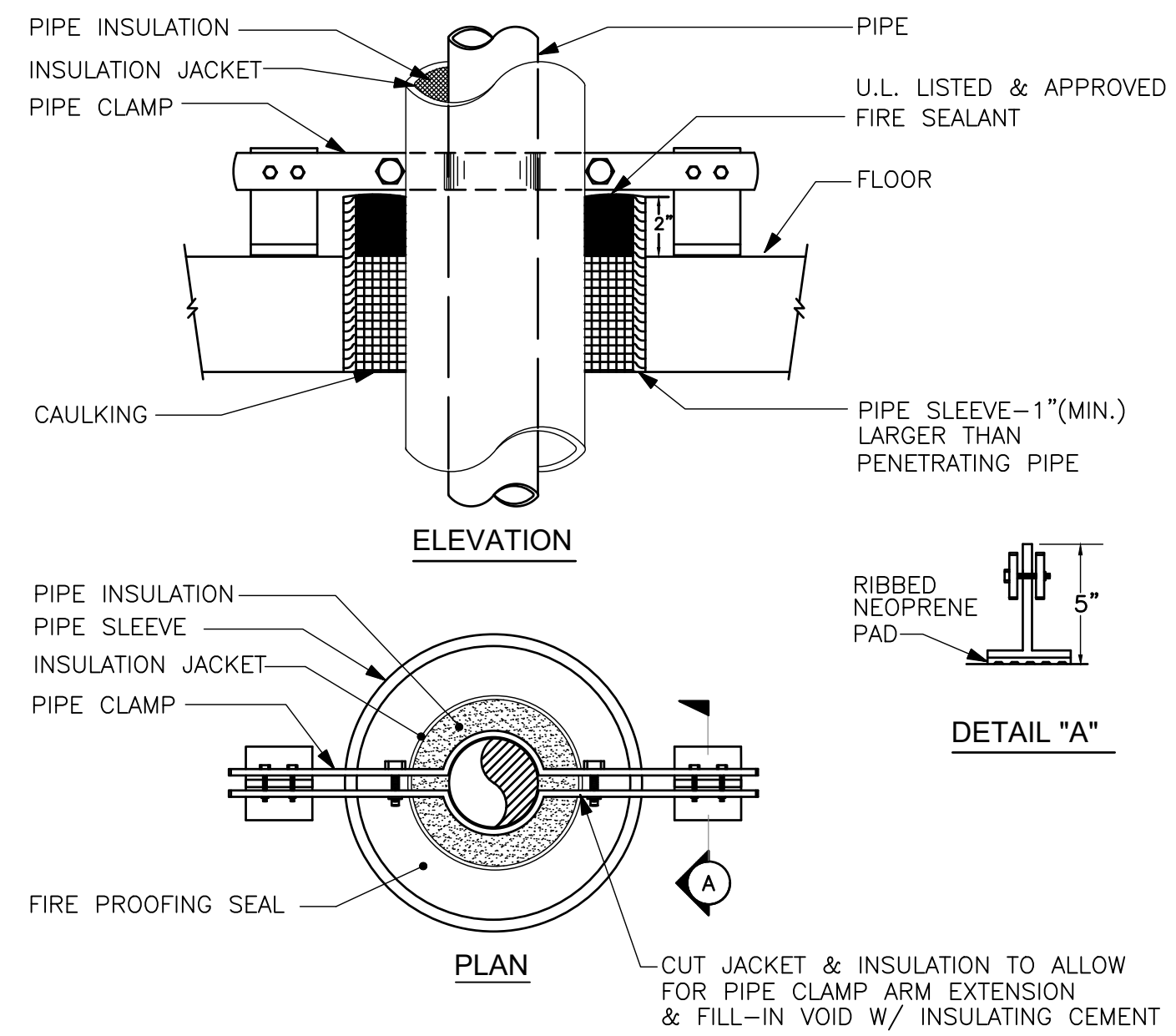
6  
P4.00



HUB DRAIN  
DETAIL

SCALE: NONE

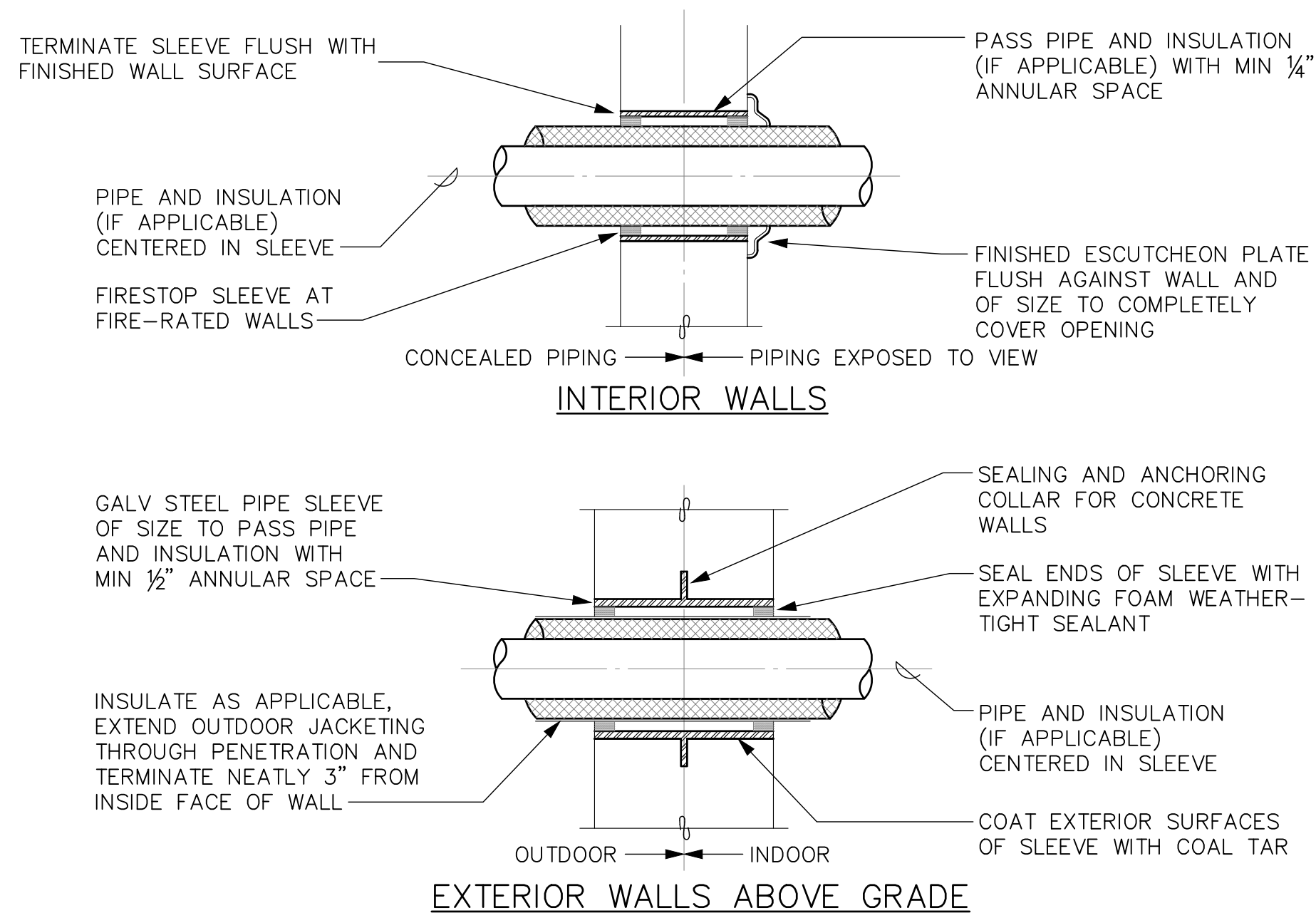
5  
P4.00



RISER PIPE SUPPORT  
DETAIL

SCALE: NONE

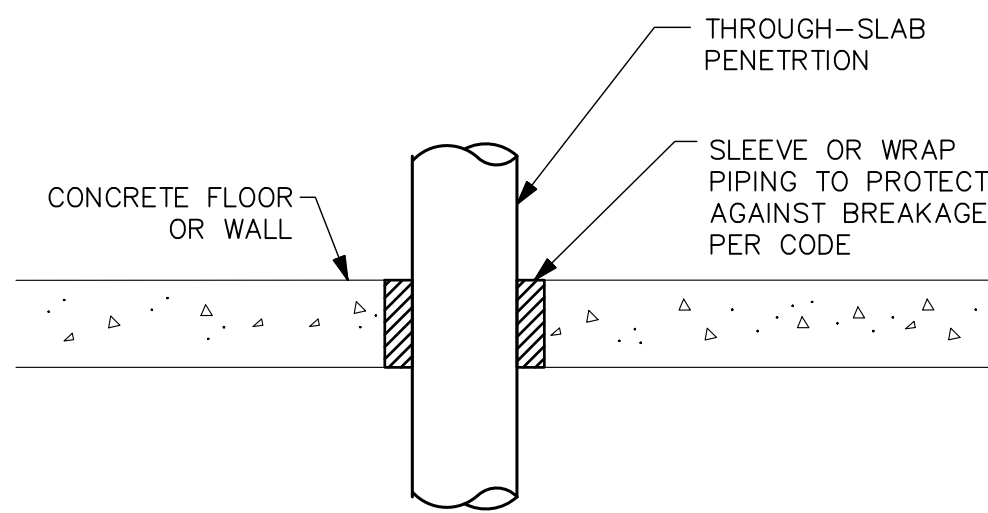
4  
P4.00



PIPE SLEEVES THROUGH WALLS  
DETAIL

SCALE: NONE

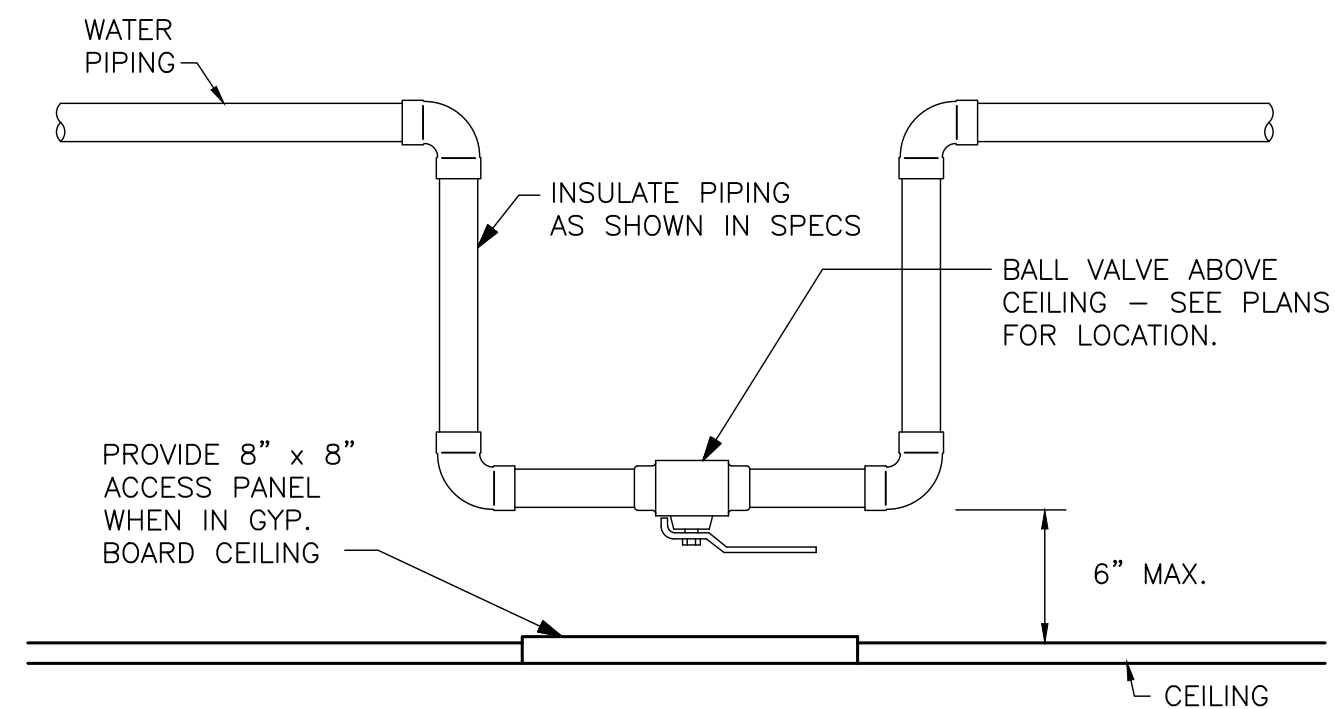
3  
P4.00



PIPE SLAB PENETRATION  
DETAIL

SCALE: NONE

2  
P4.00

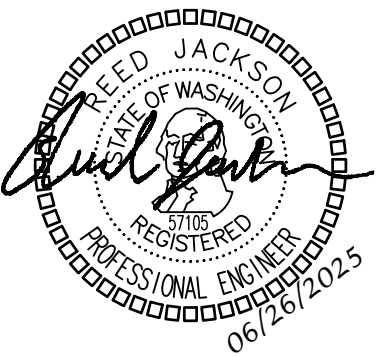


TYPICAL VALVE PLACEMENT  
DETAIL

SCALE: NONE

1  
P4.00

REV	NO.	DESCRIPTION	DATE
1.	1.	PERMIT RESUBMITTAL	6/7/25



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

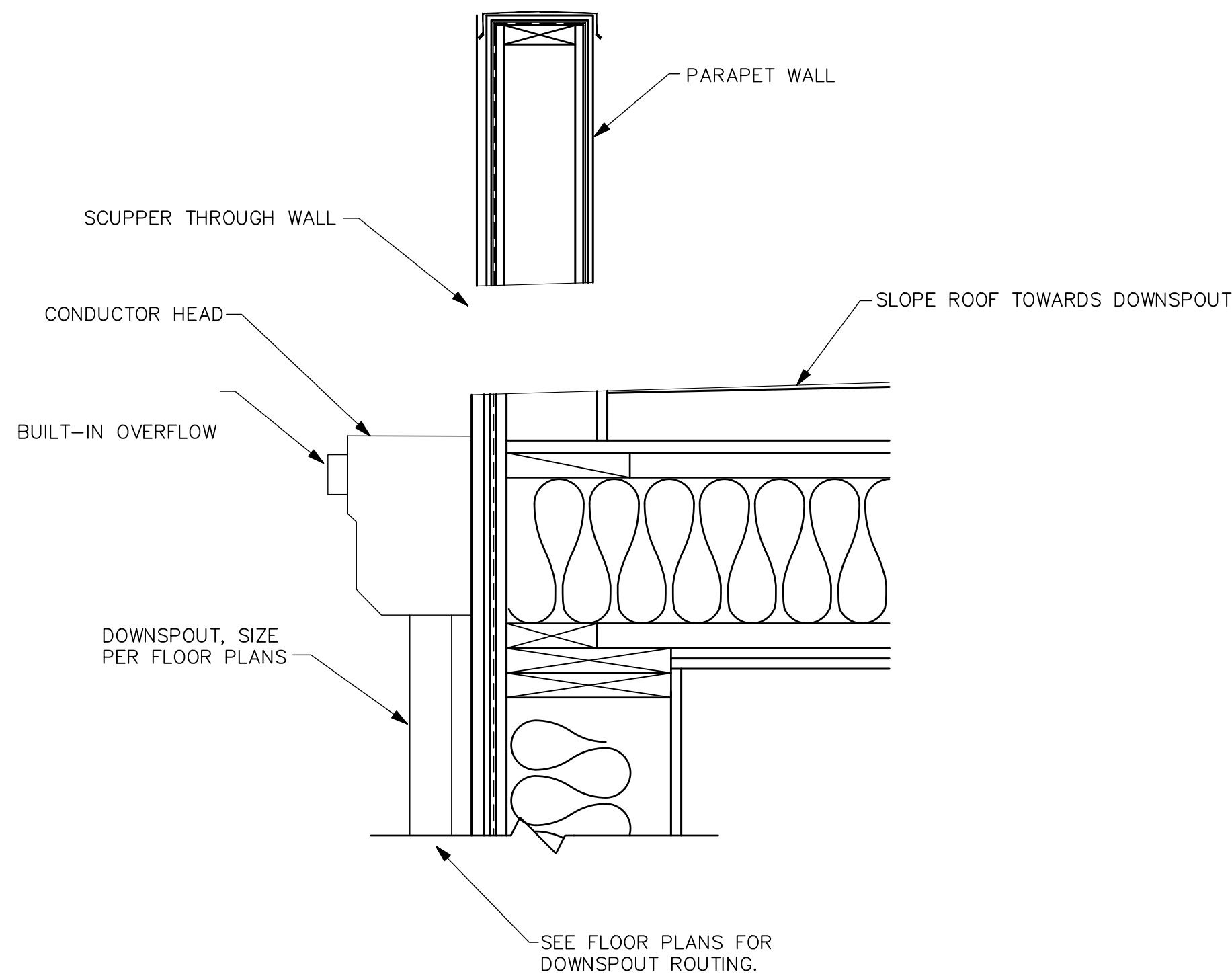
PROJECT:	EAST TOWN CROSSING MULTIFAMILY DEVELOPMENT PIONEER WAY & SHAW RD. PUYALLUP, WA
	
19401 140TH AVE W. SUITE 302 LYNNWOOD, WA 98036 PHONE: (206)364-3343	

PERMIT PLANS
08/11/2025

SHEET TITLE: DETAILS
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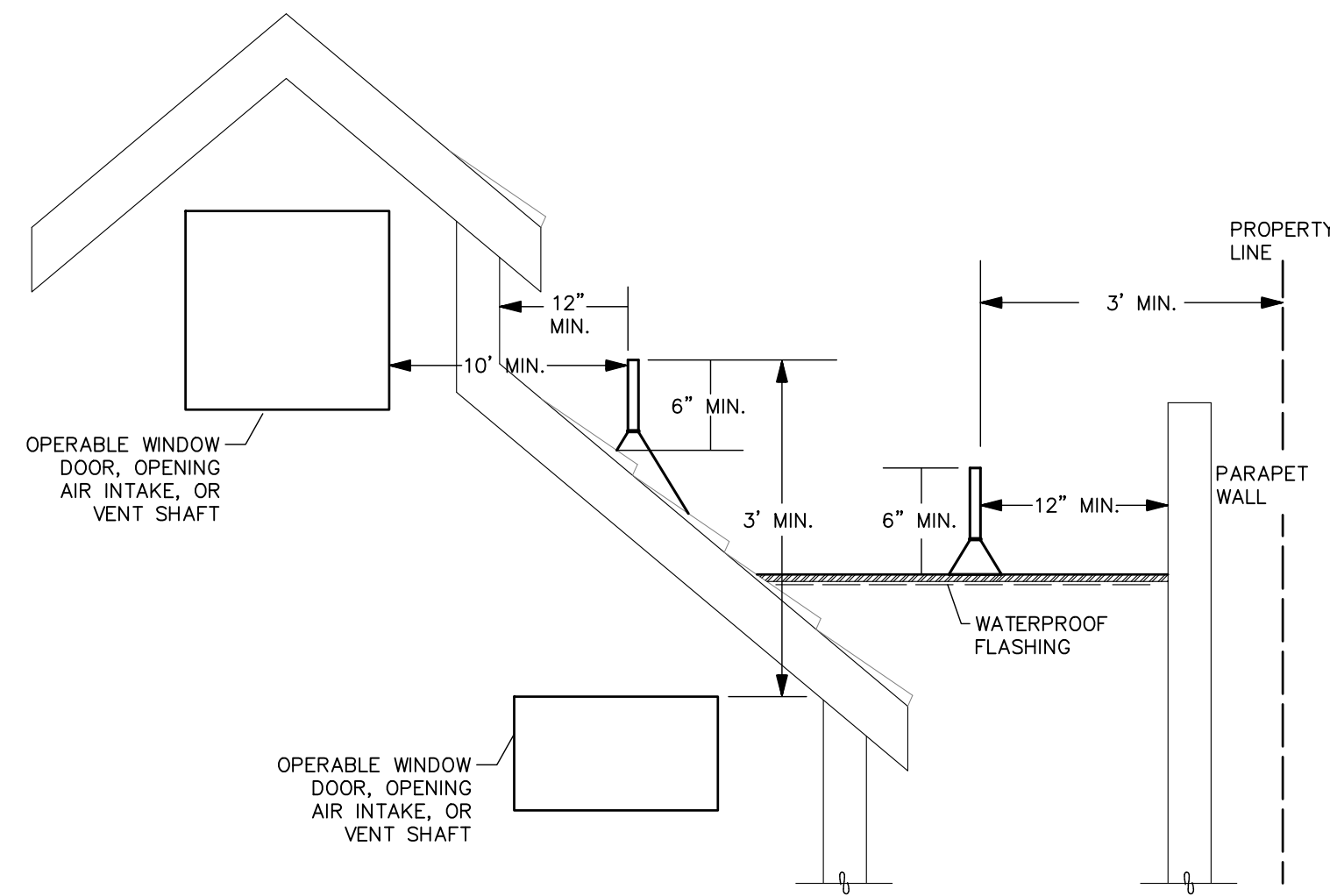
SHEET NO. P4.00
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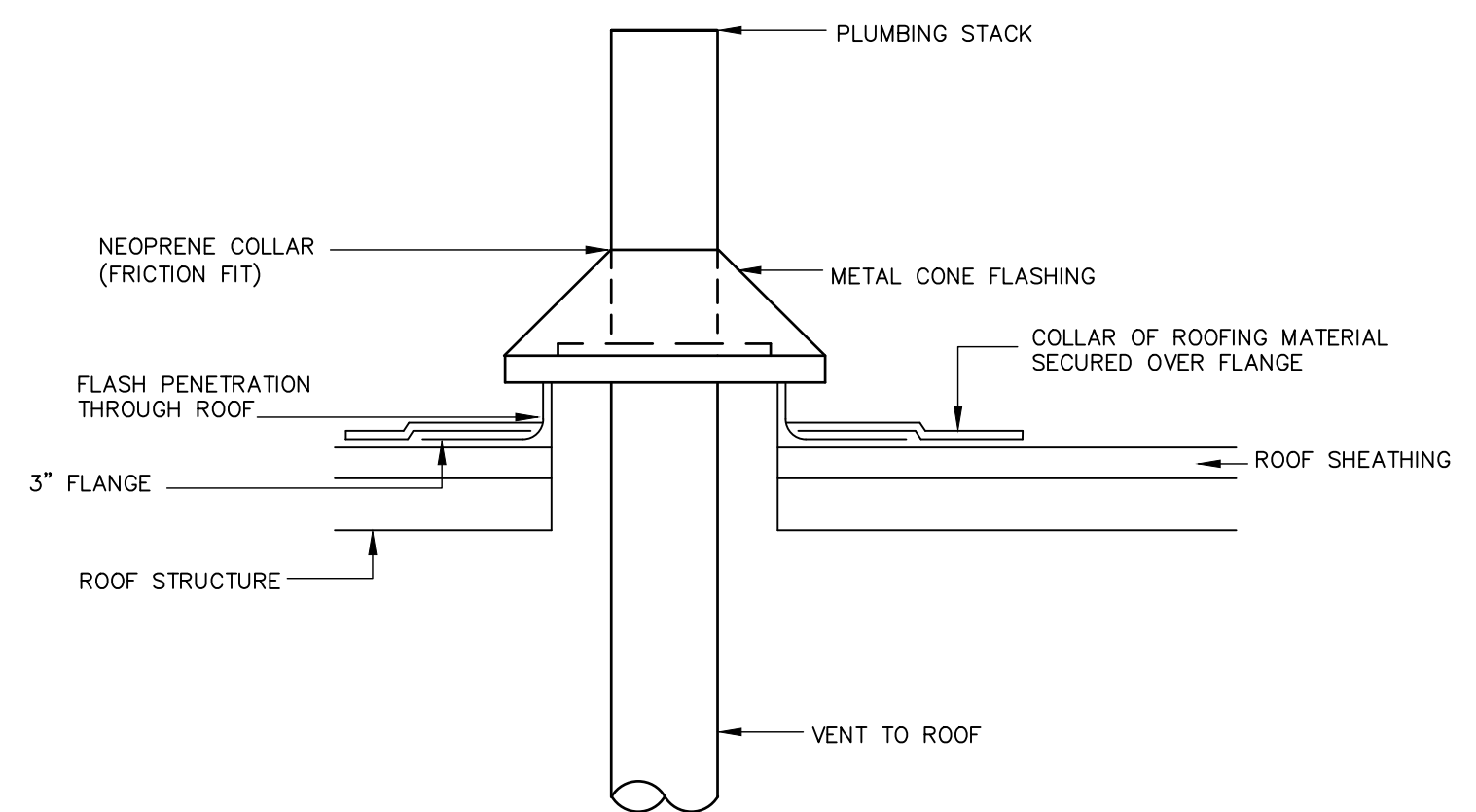
VENT TERMINATION  
DETAIL  
SCALE: NONE

3  
P4.01



VENT TERMINATION  
DETAIL  
SCALE: NONE

2  
P4.01



VENT THROUGH ROOF  
DETAIL  
SCALE: NONE

1  
P4.01

REVISES		NO.	DATE	DESCRIPTION
		1.	6/24/25	PERMIT RESUBMITTAL



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**  
MULTIFAMILY DEVELOPMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: 206-864-3343

**ROBISON**  
ENGINEERING, INC.

PERMIT PLANS
08/11/2025
SHEET TITLE: DETAILS
SHEET NO. P4.01

SYMBOLS

GENERAL

LIGHT LINE INDICATES NON-ELECTRICAL OR BACKGROUND (THIS IS NOT CONTRACTUAL DEFINITION OF WORK)

HEAVY LINE INDICATES NEW WORK (THIS IS NOT CONTRACTUAL DEFINITION OF WORK)

DETAIL IDENTIFICATION

SYMBOL

1



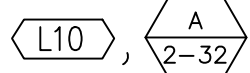
NAME

FLAG NOTE

REVISION NOTE

REVISION DEFINITION, AREA ENCIROLED CONTAINS DRAWING CHANGES MADE SUBSEQUENT TO PREVIOUS ISSUE

LIGHTING



FIXTURE IDENTIFICATION SYMBOL (TYPE A, (2) 32 WATT LAMPS SHOWN) SEE SCHEDULE SEE LUMINAIRE SCHEDULE FOR FIXTURE SYMBOLS

SWITCHES

\$

SWITCH, SINGLE POLE; WITH SWITCHING SUBSCRIPT

\$OS

OCCUPANCY SENSOR SWITCH, PROXIMITY INFRARED

\$D

SWITCH, SINGLE POLE; WITH SWITCHING SUBSCRIPT "D" INDICATES WALLBOX DIMMER

\$OS

CEILING MOUNTED OCCUPANCY SENSOR

\$AL

CEILING MOUNTED AMBIENT LIGHT SENSOR

\$DT

WALL MOUNTED DUAL TECHNOLOGY OCCUPANT SENSOR

\$T

SWITCH, TIMER.

\$2

SWITCH, TWO POLE.

RECEPTACLES



SINGLE RECEPTACLE



DUPLEX RECEPTACLE: WALL MOUNTED, +18" AFF



CONTROLLED AND NON CONTROLLED DUPLEX RECEPTACLE (SPLIT WIRED RECEPTACLE)



DUPLEX RECEPTACLE – ABOVE COUNTER



DUPLEX GFCI



DUPLEX RECEPTACLE, WITH HEIGHT ABOVE FINISHED FLOOR INDICATED



CEILING MOUNTED DUPLEX RECEPTACLE



DOUBLE DUPLEX RECEPTACLE: WALL MOUNTED, +18" AFF



FLOOR BOX ONE DUPLEX RECEPTACLE



FLOOR BOX ONE DUPLEX RECEPTACLE + ONE DATA



FLOOR BOX ONE DUPLEX RECEPTACLE + ONE DATA + ONE VOICE



SPECIAL PURPOSE RECEPTACLE, AS NOTED

MISCELLANEOUS



JUNCTION BOX: 4SQ MOUNTED



JUNCTION BOX: 4SQ WALL MOUNTED



JUNCTION BOX: 4SQ TRACK



CONNECTION FOR LIGHTED MIRROR COORDINATE LOCATION AND ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN



THERMOSTAT

SIGNAL/COMMUNICATION



DATA OUTLET: WALL MOUNTED @ +18" AFF U.O.N.



TELEPHONE/DATA OUTLET: WALL MOUNTED @ +18" AFF U.O.N.



TELEVISION OUTLET: WALL MOUNTED @ +18" AFF U.O.N.

POWER



PANELBOARD



NON-FUSED DISCONNECT SWITCH (WP = NEMA 3R WHERE APPROPRIATE )



FUSED DISCONNECT SWITCH



MOTOR CONNECTION (EQUIPMENT NAME, HORSEPOWER, VOLTAGE, AND PHASE INDICATED)



EQUIPMENT CONNECTION (EQUIPMENT NAME, LOAD, VOLTAGE, AND PHASE INDICATED)



TRANSFORMER, DRY TYPE, SHOWN TO SCALE



KW METER AND BASE

PART OF THE DESIGN/BUILD FIRE ALARM SYSTEM

FACP

FIRE ALARM SYSTEM CONTROL PANEL

P

FIRE ALARM SYSTEM PULL STATION

SA

FIRE ALARM SYSTEM STROBE/SPEAKER

SD

FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR AND SPEAKER.

SD

FIRE ALARM COMBINATION PHOTOELECTRIC SMOKE DETECTOR, CARBON MONOXIDE DETECTOR, AND SPEAKER, GUESTROOM.

CO

CARBON MONOXIDE DETECTOR.

MD

ELECTRO-MAGNETIC DOOR HOLDER

SD

DUCT SMOKE DETECTOR

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT, ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	COIL or CONDUIT
CKT	CIRCUIT
CO	CONDUIT/RACEWAY ONLY
CT	CURRENT TRANSFORMER
Cu	COPPER
CW	COOL WHITE
D	DIMMER
DED	DEDICATED
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXIST	EXISTING
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FLUOR	FLUORESCENT
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE (NFPA-70)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
PNL	PANEL
POC	POINT OF CONNECTION
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
RECEPT	RECEPTACLE
REF	REFERENCE
RI	ROUGH-IN
RM	ROOM
RO	RACEWAY ONLY
SHT	SHEET
SPEC	SPECIFICATIONS
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WW	WARM WHITE
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER
XFR	TRANSFER
Z	IMPEDANCE OR ZONE

GENERAL NOTES

GENERAL

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE GOVERNING ELECTRICAL CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.
- PROVIDE ALL WORK AND ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).
- REFERENCE ARCHITECTURAL DRAWING FOR EXACT LOCATION OF DEVICES. QUESTIONS CONCERNING THE LOCATION OF DEVICES AND EQUIPMENT SHALL BE DIRECTED TO THE ARCHITECT. FAILURE TO COORDINATE REQUIREMENTS SHALL IN NO WAY RESULT IN ADDITIONAL COMPENSATION BEING PROVIDED TO THE CONTRACTOR.
- WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
- COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.
- REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED. COORDINATE INSTALLATION AND LOCATION OF ALL EQUIPMENT WITH MECHANICAL CONTRACTOR. VERIFY ALL FUSE RATINGS, WIRE SIZES AND DISCONNECT SIZES PRIOR TO INSTALLATION.

MATERIALS AND METHODS

- PROVIDE RACEWAY AND WIRING ROUTED CONCEALED WITHIN BUILDING STRUCTURE WHERE POSSIBLE. WHERE RACEWAY CANNOT BE CONCEALED, IT SHALL BE INSTALLED PER PROJECT MANAGER'S DIRECTION. ALL CONDUIT SHALL BE INSTALLED IN NEAT SYMMETRICAL LINES HORIZONTAL OR PERPENDICULAR TO BUILDING COLUMNS AND ROOF LINES. CONDUITS SHALL BE GROUPED ON COMMON SUPPORTS WHEREVER POSSIBLE.
- EXPOSED CONDUIT ROUTING: CONDUITS MAY BE ROUTED EXPOSED IN MECHANICAL AND ELECTRICAL ROOMS ONLY. EXPOSED CONDUITS SHALL BE SECURED A MINIMUM OF 6" ABOVE FLOOR.
- OUTDOOR EXPOSED CONDUIT ROUTING: CONDUITS ROUTED ON ROOF OR EXPOSED TO WEATHER SHALL BE GRC, PVC OR LIQUID-TIGHT FLEX. PROVIDE WATER-TIGHT CONNECTIONS AND FITTINGS.
- CLEARANCES: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET.
- CONNECTIONS: PROVIDE GRS, METALLIC FLEX, OR LIQUIDTITE FLEX CONDUITS FOR CONNECTIONS TO MOTORS OR MOTORIZED EQUIPMENT.
- WIRING: PROVIDE MINIMUM #12 AWG WIRE SIZE. IF CONDUIT IS TO BE USED MINIMUM IS TO BE 1/2", FLEXIBLE CONDUIT AND FLEXIBLE CABLE IS PERMISSIBLE THROUGHOUT THE BUILDING.
- WIRING: PROVIDE MINIMUM #10 AWG COPPER CONDUCTOR SIZE IN 120V BRANCH CIRCUIT RUNS OVER 75' IN LENGTH.

SITE ELECTRICAL

- TRENCHING: COORDINATE ALL TRENCHING WORK WITH OTHER UTILITY LOCATIONS AND DRAINAGE TRENCHES.
- UNDERGROUND CONDUITS: PROVIDE PVC, SCHEDULE 40, 3/4" MINIMUM. PROVIDE GRC CONDUIT TRANSITION ELBOW WHEN TURNING UP TO ABOVE GRADE.
- DIRECT-BURIED CONDUITS: CONDUIT FOR BRANCH CIRCUITS OUTSIDE BUILDINGS NOT BENEATH DRIVEWAYS OR PARKING AREAS SHALL BE DIRECTLY BURIED WITHOUT CONCRETE ENCASEMENT. THE DEPTH TO THE TOP OF BURIED CONDUITS SHALL BE 36". PROVIDE MARKER TAPE 12" BELOW GRADE.
- BELOW SLAB: CONDUIT ROUTED BELOW ON-GRADE FLOOR SLABS SHALL BE INSTALLED PRIOR TO FLOOR SLAB POUR. ROUTE CONDUITS BELOW SLAB AS STRAIGHT AS POSSIBLE TO MINIMIZE BENDS.
- ALL CONDUITS PENETRATING THE BUILDING ENVELOPE BELOW GRADE SHALL FOLLOW WATERPROOFING REQUIREMENTS IN THE ARCHITECTURAL DRAWINGS.

NEUTRALS

- AT CONTRACTORS OPTION, NEUTRALS MAY BE SHARED ON COMBINED HOMERUNS UNLESS THE CIRCUIT HAS A GFCI BREAKER, AN ISOLATED GROUND, OR IS FROM A PANEL WITH TVSS PROTECTION. ANY NEUTRAL DOWNSTREAM FROM A DIMMER SHALL BE DEDICATED TO THE DIMMED LOAD.
- NEUTRAL WIRES SHOWN FOR TWO AND THREE POLE MECHANICAL AND KITCHEN EQUIPMENT MAY BE OMITTED UPON VERIFICATION THAT THEY ARE NOT REQUIRED EITHER FOR OPERATION OR CONTROL CIRCUITS PER MANUFACTURER'S SPECIFICATIONS.

LIGHTING

- PROVIDE LIGHT FIXTURES WITH PROPER FITTING FLANGES, MOUNTING SUPPORTS, AND ACCESSORY ITEMS, UL LISTED FOR CONDITIONS OF USE.

LOW VOLTAGE LIGHTING

- PROVIDE LOW VOLTAGE TRANSFORMERS IN NEARBY ACCESSIBLE CEILING SPACE.
- PROVIDE LOW VOLTAGE CONDUCTORS SIZED PER MANUFACTURER'S GUIDELINES TO MINIMIZE VOLTAGE DROP.

LIGHTING CONTROL

- THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A TWENTY AMPERE CIRCUIT LOADED TO NOT MORE THAN EIGHTY PERCENT. A MASTER CONTROL MAY BE INSTALLED PROVIDED THE INDIVIDUAL SWITCHES RETAIN THEIR CAPABILITY TO FUNCTION INDEPENDENTLY.
- EMERGENCY FIXTURES: EMERGENCY BATTERY/CHARGER SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE DESIGNATED CIRCUIT.

GENERAL REQUIREMENTS

- DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED.
- THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS.
- PROVIDE CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

CONTRACTOR SUBSTITUTIONS & REVISIONS

- PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL OR DOING WORK.
- FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF SPECIFICATION.
- ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL.
- CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.

PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THROUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

MECHANICAL SHEET METAL	4 HOURS
PLUMBING/PIPING	4 HOURS
ELECTRICAL	4 HOURS
SPRINKLER	2 HOURS
GENERAL CONTRACTOR	ALL SESSIONS

DRAWING INDEX

DWG	DESCRIPTION	INCLUDED IN SET									
		PERMIT SET 06/2017/25									
E0.0	LEGEND, GENERAL NOTES, DRAWING INDEX	X									
E0.1	PROJECT NOTES	X									
E0.2	ONE-LINE DIAGRAM, FEEDER, & FAULT SCHEDULES	X									
E0.3	PANEL SCHEDULES	X									
E0.4	LIGHTING NOTES & SCHEDULE	X									
E0.5	LIGHTING NOTES	X									
E1.0	SITE PLAN – ELECTRICAL	X									
E3.0	LEVEL 1 LIGHTING AND POWER	X									
E3.1	LEVEL 2/ROOF LIGHTING AND POWER	X									
E4.0	ENERGY COMPLIANCE FORMS	X									

REVIEWS	DESCRIPTION			
	DATE	PERMIT SET	STREET LIGHTING REVISIONS	PERMIT SET 3
	12/31/24	02/20/25	04/22/25	07/03/25
NO.				



DRAWN: KAS	DESIGNED: KAS	CHECKED: STEINKE M.	APPROVED: STEINKE M.
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PROJECT: EAST TOWN CROSSING LOT 1  
TENANT IMPROVEMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 364-3343

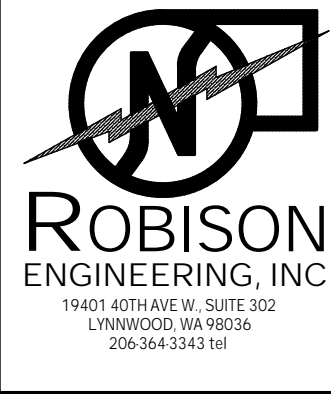
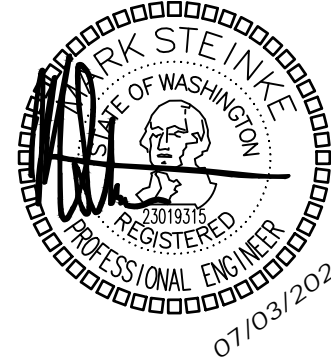
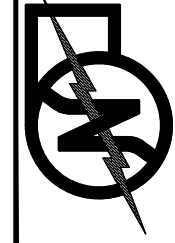
ROBISON ENGINEERING, INC.

DATE: 07-03-2025
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SHEET TITLE: LEGEND, GENERAL NOTES & DRAWING INDEX
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SHEET NO. E0.0
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	<div>APPLICABLE CODES</div> <div>THE FOLLOWING PROJECT DESIGN IS BASED ON THE FOLLOWING CODES:  ~2021 INTERNATIONAL ENERGY CONSERVATION CODE, COMMERCIAL AND WA AMENDMENT (WSEC) ~2021 INTERNATIONAL ENERGY CONSERVATION CODE, RESIDENTIAL AND WA AMENDMENT (WSEC) ~2021 INTERNATIONAL BUILDING CODE AND WA AMENDMENT (IBC) ~2021 INTERNATIONAL MECHANICAL CODE AND WA AMENDMENT (IMC) ~2021 INTERNATIONAL FIRE CODE AND WA AMENDMENT (IFC) ~2021 UNIFORM PLUMBING CODE AND WA AMENDMENT (UPC) ~2023 NEC (NEC)</div>	<div>VIBRATION AND ACOUSTICAL ISOLATION</div> <div>THE FOLLOWING MEASURES SHALL BE TAKEN TO MINIMIZE VIBRATION AND NOISE TRANSMISSION FROM MECHANICAL AND ELECTRICAL EQUIPMENT TO THE INTERIOR SPACES:  TRANSFORMERS: A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION. B) MOUNT TRANSFORMERS ON NEOPRENE GROMMET ISOLATORS.  SUBDUCT EXHAUST FANS:  A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.  ENCLOSED GARAGE EXHAUST FANS:  A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.  ROOFTOP AIR HANDLERS:  A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.  FAN COIL UNITS:  A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.  ROOF MOUNTED CONDENSERS:  A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.   FLEXIBLE CONDUIT OR MC CABLE CONNECTIONS FOR VIBRATION ISOLATION SHALL BE A MINIMUM OF TWO FEET LONG.</div> <div>STRUCTURAL PENETRATIONS</div> <div>THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF EDGE OF SLAB DRAWINGS AND OTHER PENETRATIONS OF STRUCTURAL SLABS AND SHEAR WALLS FOR ALL ITEMS RELATED TO THE ELECTRICAL SCOPE OF WORK.</div> <div>IRRIGATION NOTES</div> <div>COORDINATE WITH LANDSCAPE CONTRACTOR FOR CONDUIT PATHWAY WITHIN THE BUILDING FOR ANY IRRIGATION CONTROLS FOR UPPER FLOORS.</div> <div>CONDUIT &amp; CONDUCTOR FIRE RATING</div> <div>1. CONDUIT FOR ELECTRICAL CONDUCTORS BY THE FACP OR FIRE ALARM SYSTEM SHALL BE IN 2 HOUR RATED ENCLOSURES OR ENCASED IN 2-INCH OF CONCRETE AND RATED CABLE ASSEMBLIES, OR BE CONDUCTORS IN 2 HOUR-RATED RACEWAYS PER NFPA 72. 2. THE EQUIPMENT AND CONTROL WIRING SHALL BE ENCLOSED BY FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH IBC SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH IBC SECTION 711, OR USING A 2 HR RATED CABLE SYSTEM OR ENCLOSED WITHIN 2" OF CONCRETE. 3. FIRE ALARM WIRING SHALL COMPLY WITH IBC 907.6.1. WIRING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70. 4. RACEWAYS FOR THE DEDICATED BRANCH CIRCUIT(S) REQUIRED FOR PRIMARY POWER TO THE FIRE ALARM CONTROL PANEL (FACP) SHALL BE IN 2 HOUR RATED ENCLOSURES OR ENCASED IN 2-INCH OF CONCRETE AND RATED CABLE ASSEMBLIES, OR BE CONDUCTORS IN 2 HOUR-RATED RACEWAYS PER IBC 907 AND NFPA 72 SECTION 10.6.11.3.1.3 5. ALL WIRING USED FOR SMOKE CONTROL, REGARDLESS OF THE VOLTAGE SHALL HAVE FIRE-RESISTANCE RATED PROTECTION OF AT LEAST 2 HOURS OR AS REQUIRED IN RULES PROMULGATED BY THE BUILDING OFFICIAL. IFC 909.11.2</div>	<table><tr><td>REVISIONS</td><td>DESCRIPTION</td><td>DATE</td><td>PERMIT SET</td></tr><tr><td></td><td></td><td>12/31/24</td><td>PERMIT SET</td></tr><tr><td></td><td></td><td>02/20/25</td><td>STREET LIGHTING REVISIONS</td></tr><tr><td></td><td></td><td>04/22/25</td><td>PERMIT SET 3</td></tr><tr><td></td><td></td><td>07/03/25</td><td>PERMIT SET 4</td></tr></table> <div><p>ROBISON ENGINEERING, INC. 19401 40TH AVE W, SUITE 302 LYNNWOOD, WA 98036 206-364-3343 FAX</p><p>MARK STEINKE M. STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 07/03/2025</p></div> <table><tr><td>DRAWN:</td><td>KAS</td></tr><tr><td>DESIGNED:</td><td>KAS</td></tr><tr><td>CHECKED:</td><td>STEINKE M.</td></tr><tr><td>APPROVED:</td><td>STEINKE M.</td></tr></table> <div><div>PROJECT: EAST TOWN CROSSING LOT 1 TENANT IMPROVEMENT PIONEER WAY &amp; SHAW RD. PUYALLUP, WA</div><div><p>ROBISON ENGINEERING, INC. 19401 40TH AVE W, SUITE 302 LYNNWOOD, WA 98036 PHONE: (206) 364-3343</p></div></div> <div>DATE: 07-03-2025</div> <div>SHEET TITLE: PROJECT NOTES</div> <div>SHEET NO. E0.1</div>	REVISIONS	DESCRIPTION	DATE	PERMIT SET			12/31/24	PERMIT SET			02/20/25	STREET LIGHTING REVISIONS			04/22/25	PERMIT SET 3			07/03/25	PERMIT SET 4	DRAWN:	KAS	DESIGNED:	KAS	CHECKED:	STEINKE M.	APPROVED:	STEINKE M.
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SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

### FAULT CURRENT SCHEDULE



1. PROVISIONAL BREAKER SPACE AND CONDUIT FOR FUTURE PV SYSTEM. LOCATE BREAKER SPACE AT OPPOSITE END OF BUS AS MAIN POWER SOURCE.
2. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH PSE SERVICE LETTER PRIOR TO ORDERING EQUIPMENT.
3. ALL GEAR SHALL BE REVIEWED AND APPROVED BY PSE PRIOR TO ORDERING

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, POWER COMPANY, PHONE COMPANY, INTERNET COMPANY, CABLE TV COMPANY, AND THE SATELLITE TV COMPANY TO ENSURE REQUIRED GROUNDING IS INSTALLED FOR EACH SYSTEM.

THIS SHALL BE DONE PRIOR TO AND DURING INSTALLATION OF FOUNDATION RE-BAR AND CONTINUE DURING THE CONSTRUCTION PHASES, TO ENSURE EACH SYSTEM HAS IT'S REQUIRED GROUNDING INSTALLED FOR PROPER OPERATION OF THE SYSTEM.

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND PROVIDE WHAT IS REQUIRED TO DO THE FOLLOWING:
2. FOOTING GROUND RE-BAR COMES UP IN THE ELECTRICAL ROOM AND THE RE-BAR IS SNUGLY SECURED TO THE FOOTING RE-BAR PER OWNER DETAIL.
3. THE MC GROUNDING TIES TO THE FOOTING RE-BAR, COUNTERPOISE, BUILDING STEEL, AND WATER PIPING.
4. THE GROUND WIRE FOR THE COUNTERPOISE SHALL BE STRANDED, INSULATED WIRE IN CONDUIT UNTIL IT REACHES THE FIRST BAR OF THE COUNTERPOISE. BETWEEN THE COUNTERPOISE BARS IT SHALL BE A STRANDED BARE COPPER WIRE.



LOT1-PULL

ROOM MOUNTING FLOOR		VOLTS 208Y/120V 3P 4W				AIC 42,000	
FED FROM TI XFMR		BUS AMPS 1000				MAIN BKR 1000	
NOTE		NEUTRAL 100%				LUGS STANDARD	
						ISO GND BUS	
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS	
			A	B	C		
1	-/3	METER CENTER LOT1-MTR-1	26.4	26.4	25.2	N/A	
2	-/3	METER CENTER LOT1-MTR-2	13.8	14.8	13.8	N/A	
3	-/3	METER CENTER LOT1-MTR-H	31.8	27.3	32.4	N/A	
TOTAL CONNECTED KVA BY PHASE			71.9	68.4	71.3		
		CONN KVA	CALC KVA				
LIGHTING		1.44	1.79	(125%)	EV	79.2	
LARGEST MOTOR		37.5	9.37	(25%)	CONTINUOUS	3.6	
MOTORS		8.64	8.64	(100%)	HEATING	4.5	
RECEPTACLES		2.08	2.08	(50%>10)	COOLING	117	
						0	
					TOTAL LOAD	242	
					BALANCED 3-PHASE LOAD	672 A	

LOT1-HOUSE

ROOM MOUNTING FLUSH		VOLTS 208Y/120V 3P 4W		AIC 22,000			
FED FROM LOT1-MTR-H		BUS AMPS 400		MAIN BKR MLO			
NOTE		NEUTRAL 100%		LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.5	SITE LIGHTING	a 2	20/1	0.18	RECEPTACLE
3	20/1	0.5	SITE LIGHTING	b 4	20/1	0.5	FACP
5	20/1	0.18	RECEPTACLE	c 6	20/1	0.18	RECEPTACLE
7	20/1	0.5	FACP	a 8	60/2	8.64	BP-1
9	20/1	0.017	LIGHTING	b 10			
11	20/2	1	EWB-1.0	c 12	40/2	6.6	DUAL EV READY
13				a 14			
15	20/1	0.019	LIGHTING	b 16	40/2	6.6	DUAL EV READY
17	40/2	6.6	DUAL EV CHARGER	c 18			
19				a 20	-/2	6.6	DUAL EV CAPABLE
21	40/2	6.6	DUAL EV CHARGER	b 22			
23				c 24	-/2	6.6	DUAL EV CAPABLE
25	40/2	6.6	DUAL EV CHARGER	a 26			
27				b 28	-/2	6.6	DUAL EV CAPABLE
29	40/2	6.6	DUAL EV CHARGER	c 30			
31				a 32	-/2	6.6	DUAL EV CAPABLE
33	40/2	6.6	DUAL EV READY	b 34			
35				c 36	-/2	0	SPACE
37	40/2	6.6	DUAL EV READY	a 38			
39				b 40	-/2	0	SPACE
				c 42			
		CONN KVA	CALC KVA			CONN KVA	CALC KVA
LIGHTING		1.04	1.3 (125%)	MOTORS		8.64	8.64 (100%)
LARGEST				RECEPTACLES		1.54	1.54 (50%>10)
MOTOR		2.88	0.72 (25%)	EV		79.2	99 (125%)
				HEATING		1	1 (100%)
				TOTAL LOAD			112
				BALANCED 3--PHASE			
				LOAD			311 A
				PHASE A			106%
				PHASE B			104%
				PHASE C			89.3%

L1S1

ROOM		MOUNTING		FLUSH		VOLTS 208Y/120V 3P 4W		AIC 22,000	
FED FROM		LOT1-MTR-1		NEUTRAL 100%		BUS AMPS 400		MAIN BKR MLO	
NOTE								LUGS STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION			CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	125/3	37.5	RTU-1			a 2	20/1	1.2	SIGN
3						b 4	20/1	1.2	SIGN
5						c 6	20/1	0.18	RECEPTACLE
7	125/3	37.5	RTU-2			a 8	20/1	0.18	RECEPTACLE
9						b 10	20/1	0.19	LIGHTING
11						c 12	-/1	0	SPACE
13	-/1	0	SPACE			a 14	-/1	0	SPACE
15	-/1	0	SPACE			b 16	-/1	0	SPACE
17	-/1	0	SPACE			c 18	-/1	0	SPACE
19	-/1	0	SPACE			a 20	-/1	0	SPACE
21	-/1	0	SPACE			b 22	-/1	0	SPACE
23	-/1	0	SPACE			c 24	-/1	0	SPACE
25	-/1	0	SPACE			a 26	-/1	0	SPACE
27	-/1	0	SPACE			b 28	-/1	0	SPACE
29	-/1	0	SPACE			c 30	-/1	0	SPACE
31	-/1	0	SPACE			a 32	-/1	0	SPACE
33	-/1	0	SPACE			b 34	-/1	0	SPACE
35	-/1	0	SPACE			c 36	-/1	0	SPACE
37	-/1	0	SPACE			a 38	-/1	0	SPACE
39	-/1	0	SPACE			b 40	-/1	0	SPACE
41	-/1	0	SPACE			c 42	-/1	0	SPACE
		CONN KVA	CALC KVA					CONN KVA	CALC KVA
LIGHTING		0.19	0.238	(125%)		RECEPTACLES		0.36	0.36
LARGEST MOTOR		37.5	9.37	(25%)		CONTINUOUS		2.4	3
						HEATING		74.9	74.9
						COOLING		74.9	0
						TOTAL LOAD			87.9
						BALANCED 3-PHASE LOAD			244 A
						PHASE A			102%
						PHASE B			102%
						PHASE C			96.9%

A

ROOM MOUNTING FLUSH			VOLTS 208Y/120V 3P 4W			AIC 22,000					
FED FROM UTILITY			BUS AMPS 400			MAIN BKR MLO					
NOTE			NEUTRAL 100%			LUGS STANDARD					
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION			CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		
1	80/3	20.4	RTU-3			a 2	30/1	2.4	SIGN		
3						b 4	20/1	0.18	RECEPTACLE		
5						c 6	20/1	0.18	RECEPTACLE		
7	80/3	20.4	RTU-4			a 8	20/1	0.18	TV		
9						b 10	60/1	5	WATER HEATER		
11						c 12	20/1	0.54	RECEPTACLE		
13	40/2	5.26	SAUNA			a 14	20/1	0.18	RECEPTACLE		
15						b 16	20/1	0.18	RECEPTACLE		
17	40/2	5.26	SAUNA			c 18	20/1	0.36	RECEPTACLE		
19						a 20	20/1	1.85	HAND DRYER		
21	40/2	5.26	SAUNA			b 22	20/1	1	DRINKING FOUNTAIN		
23						c 24	20/1	1.5	WASHER		
25	40/2	5.26	SAUNA			a 26	40/2	5	DRYER		
27						b 28					
29	40/2	5.26	SAUNA			c 30	20/1	0.25	ILLUMINATED SIGN		
31						a 32	20/1	0.72	RECEPTACLE		
33	40/2	5.26	SAUNA			b 34	20/1	0.9	TELECOM BOARD		
35						c 36	40/2	5.26	SAUNA		
37	40/2	5.26	SAUNA			a 38					
39						b 40	40/2	5.26	SAUNA		
41	40/2	5.26	SAUNA			c 42					
43						a 44	20/1	0.18	TV		
45	20/1	0.5	RECEPTACLE			b 46	-/1	0	SPACE		
47	-/1	0	SPACE			c 48	-/1	0	SPACE		
49	-/1	0	SPACE			a 50	-/1	0	SPACE		
51	-/1	0	SPACE			b 52	-/1	0	SPACE		
53	-/1	0	SPACE			c 54	-/1	0	SPACE		
55	-/1	0	SPACE			a 56	-/1	0	SPACE		
57	-/1	0	SPACE			b 58	-/1	0	SPACE		
59	-/1	0	SPACE			c 60	-/1	0	SPACE		
61	-/1	0	SPACE			a 62	-/1	0	SPACE		
63	-/1	0	SPACE			b 64	-/1	0	SPACE		
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			0.25	0.313	(125%)	CONTINUOUS			2.4	3	(125%)
LARGEST MOTOR			20.4	5.09	(25%)	NONCONTINUOUS			12.5	12.5	(100%)
RECEPTACLES			4.1	4.1	(50%>10)	HEATING			95.2	95.2	(100%)
						COOLING			40.8	0	(0%)
						TOTAL LOAD			120		
						BALANCED 3-PHASE LOAD			334 A		
						PHASE A			105%		
						PHASE B			104%		
						PHASE C			91.3%		

FLAG NOTES

HOTWORX TO PROVIDE BUCKBOOSTER FOR SAUNAS MOUNTED TO THE WALL.

LOT1-MTR-1

ROOM MOUNTING SURFACE			VOLTS 208Y/120V 3P 4W			AIC 42,000		
FED FROM LOT1-PULL			BUS AMPS 400			MAIN BKR MLO		
NOTE			NEUTRAL 100%			LUGS STANDARD		
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS		
			A	B	C			
1	400/3	PANEL L1S1	26.4	26.4	25.2	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G		
TOTAL CONNECTED KVA BY PHASE			26.4	26.4	25.2			

LOT1-MTR-2

ROOM MOUNTING SURFACE		VOLTS 208Y/120V 3P 4W			AIC 42,000			
FED FROM LOT1-PULL		BUS AMPS 400			MAIN BKR MLO			
NOTE		NEUTRAL 100%			LUGS STANDARD			
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS		
			A	B	C			
1	400/3	PANEL L1S2	14.8	13.8	13.8	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G		
TOTAL CONNECTED KVA BY PHASE			14.8	13.8	13.8			
		CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING		0.209	0.261	(125%)	CONTINUOUS	1.2	1.5	(125%)
LARGEST MOTOR		20.4	5.09	(25%)	HEATING	40.8	40.8	(100%)
RECEPTACLES		0.18	0.18	(50%>10)	COOLING	40.8	0	(0%)
					TOTAL LOAD		47.8	
					BALANCED 3-PHASE LOAD		133 A	

LOT1-MTR-H

ROOM MOUNTING SURFACE		VOLTS 208Y/120V 3P 4W			AIC 42,000			
FED FROM LOT1-PULL		BUS AMPS 400			MAIN BKR MLO			
NOTE		NEUTRAL 100%			LUGS STANDARD			
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS		
			A	B	C			
1	400/3	PANEL LOT1-HOUSE	32.4	31.8	27.3	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G		
TOTAL CONNECTED KVA BY PHASE			32.4	31.8	27.3			
		CONN KVA	CALC KVA		CONN KVA		CALC KVA	
LIGHTING		1.04	1.3	(125%)	RECEPTACLES	1.54	1.54	(50%>10)
LARGEST MOTOR		2.88	0.72	(25%)	EV	79.2	99	(125%)
MOTORS		8.64	8.64	(100%)	HEATING	1	1	(100%)
					TOTAL LOAD			
					BALANCED 3-PHASE LOAD		112 311 A	

RETAIL INTERIOR LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT VA	VOLTS
A		(1) 12W LED	6" DOWNLIGHT	0–10V DIMMING	RECESSED	LITELINE: SLMB6 12 C [FINISH]	12	120V 1P 2W
B		(1) 60W LED	UFO HIGH BAY LIGHT	0–10V DIMMING	CEILING	HYKOLITY: HBB–0072 ELITE PLUS SERIES	60	120V 1P 2W
C		(1) 5W EM	EXIT SIGN – EMERGENCY BATTERY BACKUP – HATCH INDICATES LIT FACE	EM	SURFACE	LSI: EMS WB SERIES (OR EQUAL)	5	120V 1P 2W
CE1		(1) 17W LED	8" SURFACE DOWNLIGHT – CORRIDORS – EMERGENCY DRIVER BACKUP	0–10V DIMMING	SURFACE	DMF: DRDHNJO150SEMS / DRD5S8R159300A	17	MULTIPLE
D		(1) 5W EM	EMERGENCY LIGHT – WET LISTED – EMERGENCY BATTERY BACKUP	EM	SURFACE	LSI: CWL SERIES (OR EQUAL)	5	120V 1P 2W
S1		(1) 19W LED	4' LED LINEAR STRIP	0–10V DIMMING	SURFACE	LITHONIA: CLX L48 3000LM HEF RDL 120 GZ10 35K 80CRI WH	19	120V 1P 2W
X1		(1) 5W EM	EXIT SIGN – EMERGENCY BATTERY BACKUP – HATCH INDICATES LIT FACE	EM	SURFACE	LSI: EMS WB SERIES (OR EQUAL)	5	MULTIPLE

LIGHTING CONTROLS LEGEND		
SYMBOL	CONTROL TYPE	CONTROL FUNCTION
	TOGGLE SWITCH	MANUAL ON/OFF LIGHTING CONTROL. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH SWITCH (WSEC C405.2.3). SUBSCRIPT 'k' INDICATES TAMPER RESISTANT KEYED SWITCH FOR USE BY AUTHORIZED PERSONNEL ONLY.
	DIMMER SWITCH	MANUAL LIGHT REDUCTION CONTROLS. CONTROL SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH DIMMER. (C405.2.3, C405.2.4)
	TOGGLE/DIMMER SWITCH WITH OCCUPANCY SENSOR	SWITCHES LABELED 'os' OR 'vs' SHALL TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C405.2.1, C405.2.3)
	SURFACE MOUNTED OCCUPANCY SENSOR	AUTOMATIC LIGHTING CONTROL SHALL TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C404.2.1)
	MULTIZONE PHOTOSENSOR	AUTOMATIC LIGHTING CONTROL SHALL AUTOMATICALLY ADJUST THE LIGHT OUTPUT OF ALL CONNECTED LUMINAIRES BASED ON AVAILABLE DAYLIGHT (C405.2.5).

EXIT SIGN NOTES
DURING CONSTRUCTION UPON COMPLETION OF A TYPICAL FLOOR FRAMING AND BEFORE WALL COVER, ELECTRICAL CONTRACTOR SHALL WALK THE EGRESS PATHS WITH THE LOCAL INSPECTOR (AHJ) TO CONFIRM THAT ALL THE EXIT SIGNS ARE LOCATED PER THE AHJ'S SATISFACTION AND IDENTIFY ANY ADDITIONAL EXIT SIGNS THAT THE AHJ WISHES TO BE INSTALLED (IBC 1013.1). CONTRACTOR SHALL PROVIDE UP TO 10% ADDITIONAL EXIT SIGNS AT NO ADDITIONAL COST.

GENERAL LIGHTING NOTES
<div>1. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF LOCAL ENERGY CODES.</div> <div>2. EMERGENCY LIGHT FIXTURES: PROVIDE UNSWITCHED HOT.</div> <div>3. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, DIMMERS (FOR COMMON AREA INTERIOR LUMINAIRES ONLY), AND SWITCHES ARE DIAGRAMMATIC. CONTRACTOR TO FIELD–IDENTIFY OPTIMAL LOCATIONS AND QUANTITIES.</div> <div>4. ASSURE COMPATIBILITY OF DIMMERS WITH CONTROLLED LUMINAIRES PRIOR TO PURCHASING.</div> <div>5. AUTOMATIC LIGHTING SHUT–OFF CONTROLS SHALL BE PROVIDED BY LOCAL OCCUPANCY SENSORS UNLESS OTHERWISE NOTED. PUBLIC SPACES ARE ACTIVE 24/7 AND THEREFORE EXEMPT FROM AUTOMATIC LIGHTING SHUT–OFF REQUIREMENTS.</div> <div>6. DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY' AND 'SECONDARY' ON PLANS AND DENOTED BY DASHED LINES.</div> <div>7. FOR CUSTOM FF&amp;E FIXTURES, IT IS THE MANUFACTURER'S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL REQUIREMENTS OF LOCAL ENERGY CODES, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINAIRE SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON–COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE–LABELING.</div> <div>8. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.</div> <div>9. CONTRACTOR SHALL BE RESPONSIBLE TO ORDER ALL NECESSARY HARDWARE, ELECTRICAL CABLE, TIMERS, TRANSFORMERS, ETC., AS REQUIRED FOR COMPLETION OF INSTALLATION OF A FULLY FUNCTIONING SYSTEM.</div> <div>10. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE.</div> <div>11. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS, AND VENTILATION.</div> <div>12. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR EXACT LOCATIONS OF TIMERS AND/OR PHOTO CELLS, IF ANY.</div> <div>13. (FOR COMMON AREA INTERIOR LUMINAIRES ONLY) THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF DIMMING AND CONTROL MODULES WITH THE FIXTURE TYPES PRIOR TO INSTALLATION.</div> <div>14. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE LIGHTING DESIGNER UPON COMPLETION OF THE INSTALLATION.</div> <div>SPECIAL NOTE TO THE CONTRACTOR:</div> <div>1. FIXTURE SUBMITTALS THAT DO NOT INCLUDE LAMP SPECIFICATIONS WILL BE CONSIDERED INCOMPLETE AND WILL NOT BE REVIEWED.</div>

EXTERIOR & SITE LIGHTING CONTROL SYSTEM REQUIREMENTS
<div>1. CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.</div> <div>2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, SET UP INSTRUCTIONS, COMMISSIONING AND CHECK–OUT FOLLOWING COMPLETION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.</div> <div>3. INSTALLER QUALIFICATIONS: TECHNICIAN INSTALLING AND WIRING THE LIGHTING CONTROL SYSTEM SHALL HAVE INSTALLED THIS SAME SYSTEM AT LEAST ONCE PREVIOUSLY. TECHNICIAN SHALL HAVE RECEIVED TRAINING BY FACTORY REPRESENTATIVE ON THE SYSTEM BEING INSTALLED.</div> <div>4. PROVIDE LIGHTING CONTROL SYSTEM TO PERFORM THE FUNCTIONS DESCRIBED BELOW:<div>4.1. CONTROL EXTERIOR LIGHTING BASED ON ASTRONOMIC TIME–CLOCK SCHEDULING OR PHOTOCELL DETECTION.</div></div> <div>5. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS SHALL BYPASS ALL LIGHTING CONTROLS IN ORDER TO ENERGIZE ALL CONNECTED LUMINAIRES AT FULL CAPACITY. PROVIDE UL924 RELAYS AS REQUIRED TO BYPASS AREA CONTROLS.</div> <div>6. CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF CONTROL MODULES WITH FIXTURE TYPES PRIOR TO INSTALLATION.</div>

NO.	DATE	REVISIONS	
		DESCRIPTION	
	12/31/24	PERMIT SET	
	02/20/25	STREET LIGHTING REVISIONS	
	04/22/25	PERMIT SET 3	
	07/03/25	PERMIT SET 4	

**ROBISON**  
ENGINEERING, INC.  
19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
206-864-3343 FAX

**MARK STEINKE M.**  
REGISTERED  
PROFESSIONAL ENGINEER  
07/03/2025

DRAWN: KAS	DESIGNED: KAS	CHECKED: STEINKE M.	APPROVED: STEINKE M.
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PROJECT: **EAST TOWN CROSSING LOT 1**  
TENANT IMPROVEMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

**ROBISON**  
ENGINEERING, INC.  
19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 864-3343

DATE: 07-03-2025
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SHEET TITLE: LIGHTING NOTES & SCHEDULE
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SHEET NO. <b>E0.4</b>
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LIGHTING CONTROL SYSTEM REQUIREMENTS

1. CONTRACTOR TO PROVIDE FULLY OPERATIONAL LIGHTING CONTROL SYSTEM(S).
2. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF LOCAL ENERGY CODES.
3. CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF DIMMING AND CONTROL MODULES WITH FIXTURE TYPES PRIOR TO INSTALLATION.
4. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, AND MANUAL LIGHTING CONTROLS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE QUANTITIES AND OPTIMAL LOCATIONS WITH LIGHTING CONTROL MANUFACTURER AND ARCH/OWNER.
5. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR EXACT LOCATIONS OF EXTERIOR PHOTO CELLS, IF ANY.
- AUTOMATIC LIGHTING CONTROLS
6. OCCUPANCY SENSORS (WSEC C405.2.1) SHALL BE CONFIGURED PER THE FOLLOWING (UON):
- 6.1. AUTOMATICALLY TURN OFF LIGHT WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
- 6.2. AUTOMATICALLY TURN ON LIGHTING TO NOT MORE THAN 50 PERCENT POWER WHEN OCCUPANT ENTERS THE SPACE
- 6.3. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS ON/OFF.
7. DAYLIGHT ZONES ARE SHOWN ON PLANS AS DEFINED BY C405.2.5.2–C405.2.5.4. DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY', 'SECONDARY', AND 'TOPLIT' ON PLANS AND DENOTED BY DASHED 'DZ' LINES.
- 7.1. DAYLIGHT RESPONSIVE CONTROLS SHALL PROVIDE CONTINUOUS AUTOMATIC DIMMING BASED ON DAYLIGHT CONTRIBUTION OF THE GENERAL LIGHTING WITHIN DAYLIGHT ZONES. CONTROLS SHALL BE CONFIGURED PER THE FOLLOWING (UON):
- 7.1.1. LIGHTS IN PRIMARY, SECONDARY, AND TOPLIGHT DAYLIGHT ZONES SHALL EACH BE CONTROLLED INDEPENDENTLY OF EACH OTHER.
- 7.1.2. CALIBRATION MECHANISMS SHALL BE IN A LOCATION WITH READY ACCESS AND SHALL BE CALIBRATED BY AUTHORIZED PERSONNEL ONLY.
- 7.1.3. DAYLIGHT RESPONSIVE CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL LIGHT OUTPUT TO 15 PERCENT OF FULL LIGHT OR LOWER; TIME DELAY CIRCUITS SHALL BE INCORPORATED TO PREVENT CYCLING OF LIGHT LEVEL CHANGES LESS THAN THREE MINUTES.
8. EXTERIOR LIGHTING SHALL BE CONFIGURED PER THE FOLLOWING (UON):
- 8.1. LIGHTS SHALL BE CONFIGURED TO AUTOMATICALLY TURN OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS. (C405.2.9.1)
- 8.2. BUILDING FACADE AND LANDSCAPE LIGHTING SHALL BE CONFIGURED TO AUTOMATICALLY SHUT OFF FOR A MINIMUM OF 6 HOURS OR FROM ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING PER NIGHT EXCEPT WHERE AUTOMATIC SHUTOFF WOULD ENDANGER SAFETY OR SECURITY. (C405.2.9.2)
- 8.3. LIGHTING SETBACK (C405.2.9.3) SHALL COMPLY WITH THE FOLLOWING:
- 8.3.1. LUMINAIRES SERVING OUTDOOR PARKING AREAS WITH A WATTAGE GREATER THAN 40 WATTS AND A MOUNTING HEIGHT OF LESS THAN 24 FEET ABOVE GROUND SHALL BE CONTROLLED SO THE TOTAL WATTAGE IS REDUCED BY NOT LESS THAN 50 PERCENT DURING ANY TIME WHERE ACTIVITY HAS NOT BE DETECTED FOR 15 MINUTES OR MORE.
- 8.3.2. ALL OTHER LIGHTING SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE IS AUTOMATICALLY REDUCED BY NOT LESS THAN 50 PERCENT FROM NOT LATER THAN 12 MIDNIGHT TO 6AM, FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ON HOUR BEFORE BUSINESS OPEN, OR DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR 15 MINUTES OR MORE.
- NETWORKED LIGHTING CONTROLS
9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, AND SET UP INSTRUCTIONS.
- 9.1. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.
10. INSTALLER QUALIFICATIONS: TECHNICIAN INSTALLING AND WRING THE LIGHTING CONTROL SYSTEM SHALL HAVE INSTALLED THIS SAME SYSTEM AT LEAST ONCE PREVIOUSLY. TECHNICIAN SHALL HAVE RECEIVED TRAINING BY FACTORY REPRESENTATIVE ON THE SYSTEM BEING INSTALLED.
11. SEQUENCE OF OPERATIONS SHALL BE CODE MINIMUM UON ON PLANS.

GENERAL LIGHTING NOTES

- LUMINAIRES:
1. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER’S INSTRUCTIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE TO ORDER ALL NECESSARY HARDWARE, ELECTRICAL CABLE, TIMERS, TRANSFORMERS, ETC., AS REQUIRED FOR COMPLETION OF INSTALLATION OF A FULLY FUNCTIONING SYSTEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE OR AN EQUIVALENT APPROVED BY ELECTRICAL DESIGNER.
4. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS, AND VENTILATION.
5. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE LIGHTING DESIGNER UPON COMPLETION OF THE INSTALLATION.
6. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND DEVICES. QUESTIONS CONCERNING THE LOCATION OF FIXTURES AND DEVICES SHALL BE DIRECTED TO THE ARCHITECT.
- DECORATIVE LIGHTING:
7. FOR CUSTOM FF&E FIXTURES, IT IS THE MANUFACTURER’S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL REQUIREMENTS OF LOCAL ENERGY CODES, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINAIRE SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON–COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE–LABELING.
- EXIT SIGNS, EGRESS, AND EMERGENCY LIGHTING:
8. EXIT SIGNS: PROVIDE UNSWITCHED HOT. EXIT SIGN LETTERS SHALL NOT BE DIMMED OR RESPOND TO AUTOMATIC LIGHTING CONTROLS.
9. EMERGENCY LIGHTING FIXTURES: IN ADDITION TO SWITCH–LEG, PROVIDE UNSWITCHED HOT TO SERVE INTERNAL BATTERY AND CHARGER.
10. MEANS OF EGRESS ILLUMINATION DURING NORMAL OPERATION SHALL COMPLY WITH IBC 1008.2.1:
- 10.1. AT ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOTCANDLE AT THE WALKING SURFACE.
- 10.2. ALONG EXIT ACCESS STAIRWAYS, EXIT STAIRWAYS AND AT THEIR REQUIRED LANDINGS, THE ILLUMINATION SHALL NOT BE LESS THAN 10 FOOTCANDLES AT THE WALKING SURFACE WHEN THE STAIRWAY IS IN USE.
11. MEANS OF EGRESS ILLUMINATION DURING EMERGENCY OPERATION SHALL COMPLY WITH IBC 1008.3:
- 11.1. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1 FOOTCANDLE AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE.
- 11.2. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES.
12. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS/UNIT EQUIPMENT SHALL BYPASS ALL LIGHTING CONTROLS AND ENERGIZE ALL CONNECTED LUMINAIRES TO PROVIDE ILLUMINATION AT FULL POWER OR TO A PRESET LOAD SHEDDING DIMMED OUTPUT. PROVIDE UL924 RELAYS/DEVICES AS REQUIRED TO BYPASS AREA CONTROLS. WHEN NORMAL POWER IS RESTORED, CONTROLS SHALL AUTOMATICALLY RESUME NORMAL OPERATION.
13. EMERGENCY LIGHTING POWER SHALL BE PROVIDED BY CONTRACTOR.
- SPECIAL NOTE TO THE CONTRACTOR
- FIXTURE SUBMITTALS THAT DO NOT INCLUDE LAMP SPECIFICATIONS WILL BE CONSIDERED INCOMPLETE AND WILL NOT BE REVIEWED

NO.	DATE	REVISIONS	
		DESCRIPTION	
	12/31/24	PERMIT SET	
	02/20/25	STREET LIGHTING REVISIONS	
	04/22/25	PERMIT SET 3	
	07/03/25	PERMIT SET 4	



DRAWN: KAS	DESIGNED: KAS	CHECKED: STEINKE M.	APPROVED: STEINKE M.
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PROJECT: EAST TOWN CROSSING LOT 1  
TENANT IMPROVEMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

ROBISON  
ENGINEERING, INC

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 364-3343

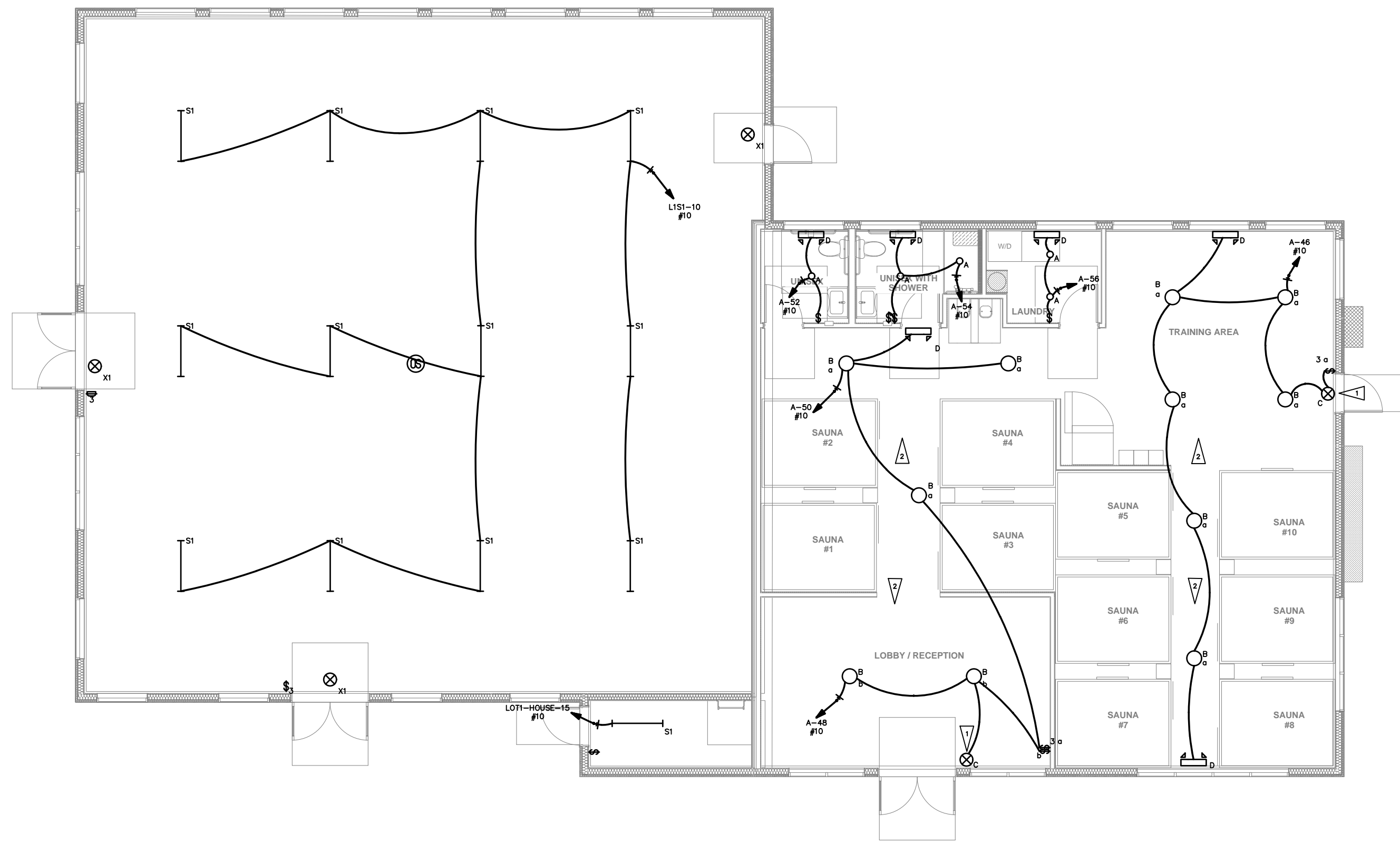
DATE: 07-03-2025
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SHEET TITLE: LIGHTING NOTES
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SHEET NO. E0.5
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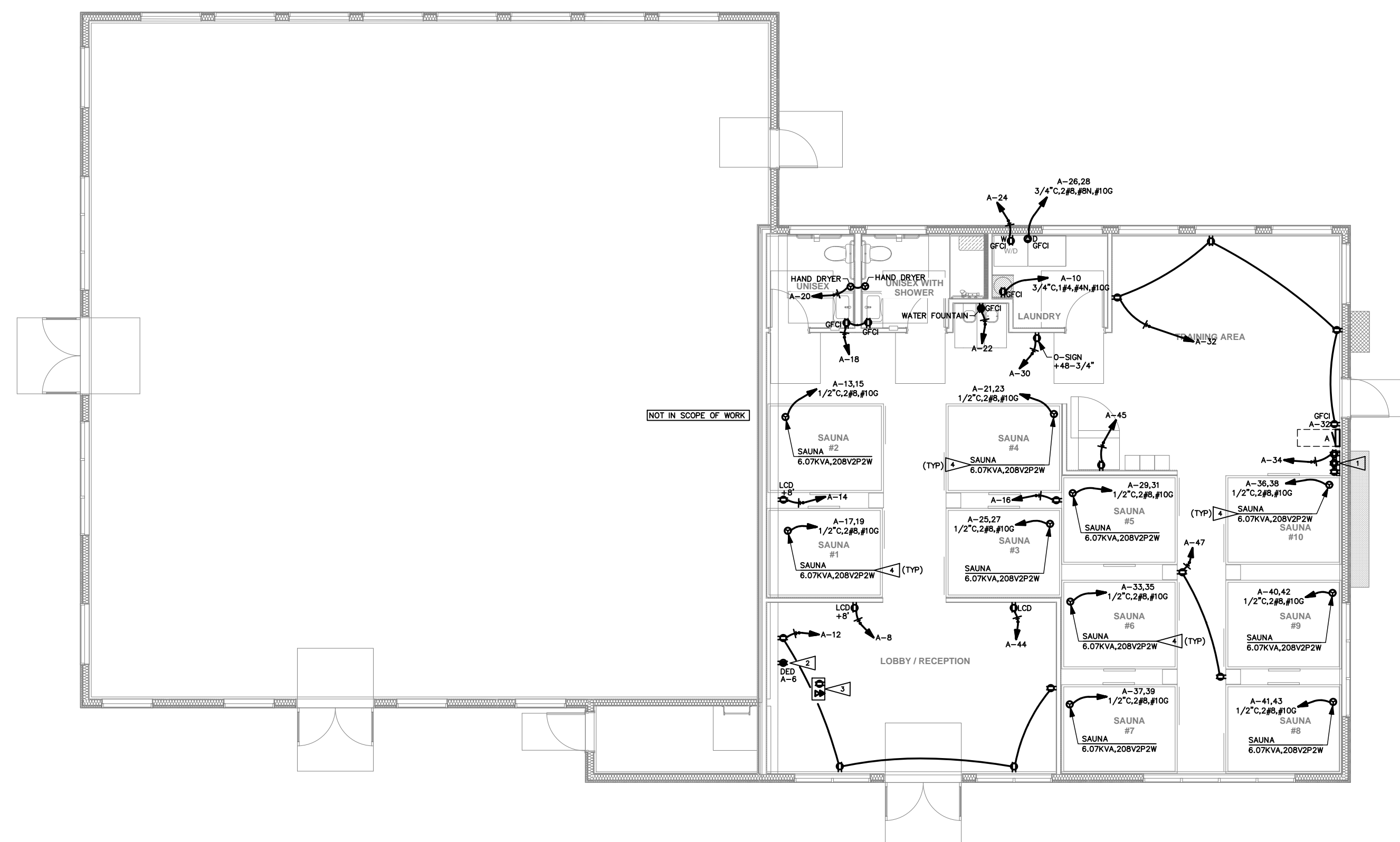
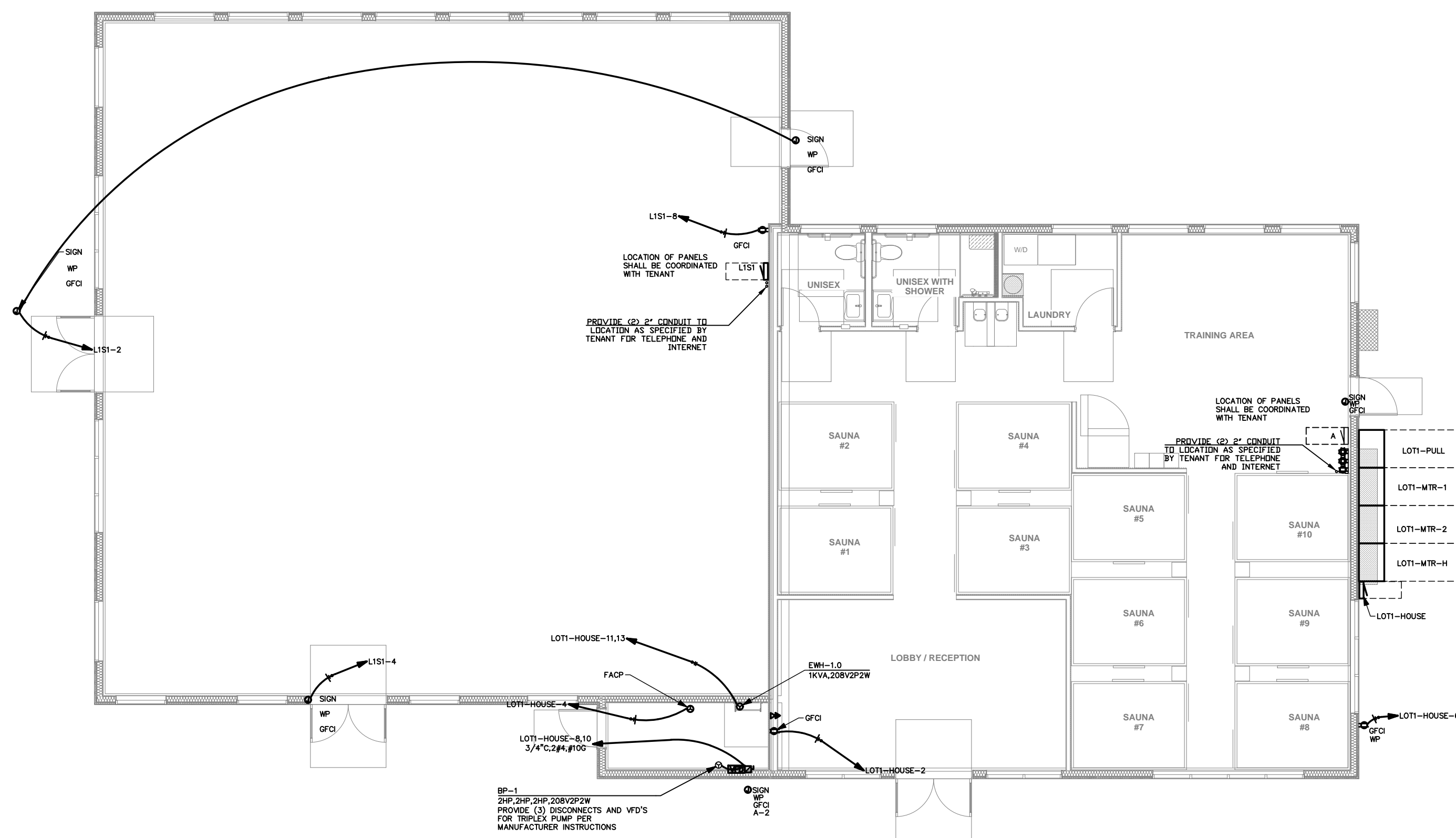




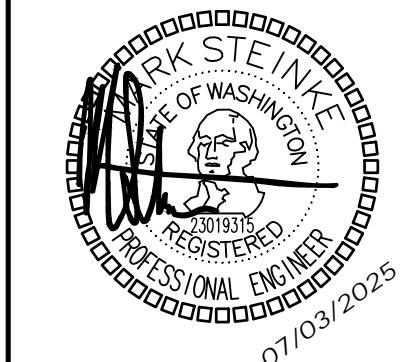
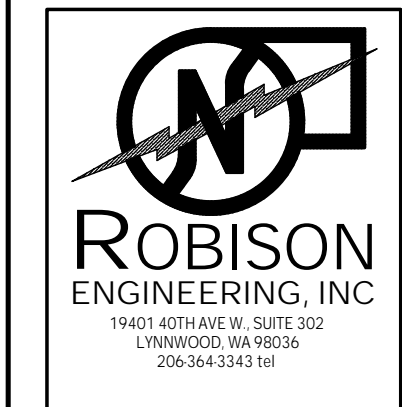


# LEVEL 1 POWER & LIGHTING PLAN

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



NO.	DATE	DESCRIPTION	REVISIONS
1	12/31/24	PERMIT SET	
2	02/20/25	STREET LIGHTING REVISIONS	
3	04/22/25	PERMIT SET 3	
4	07/03/25	PERMIT SET 4	

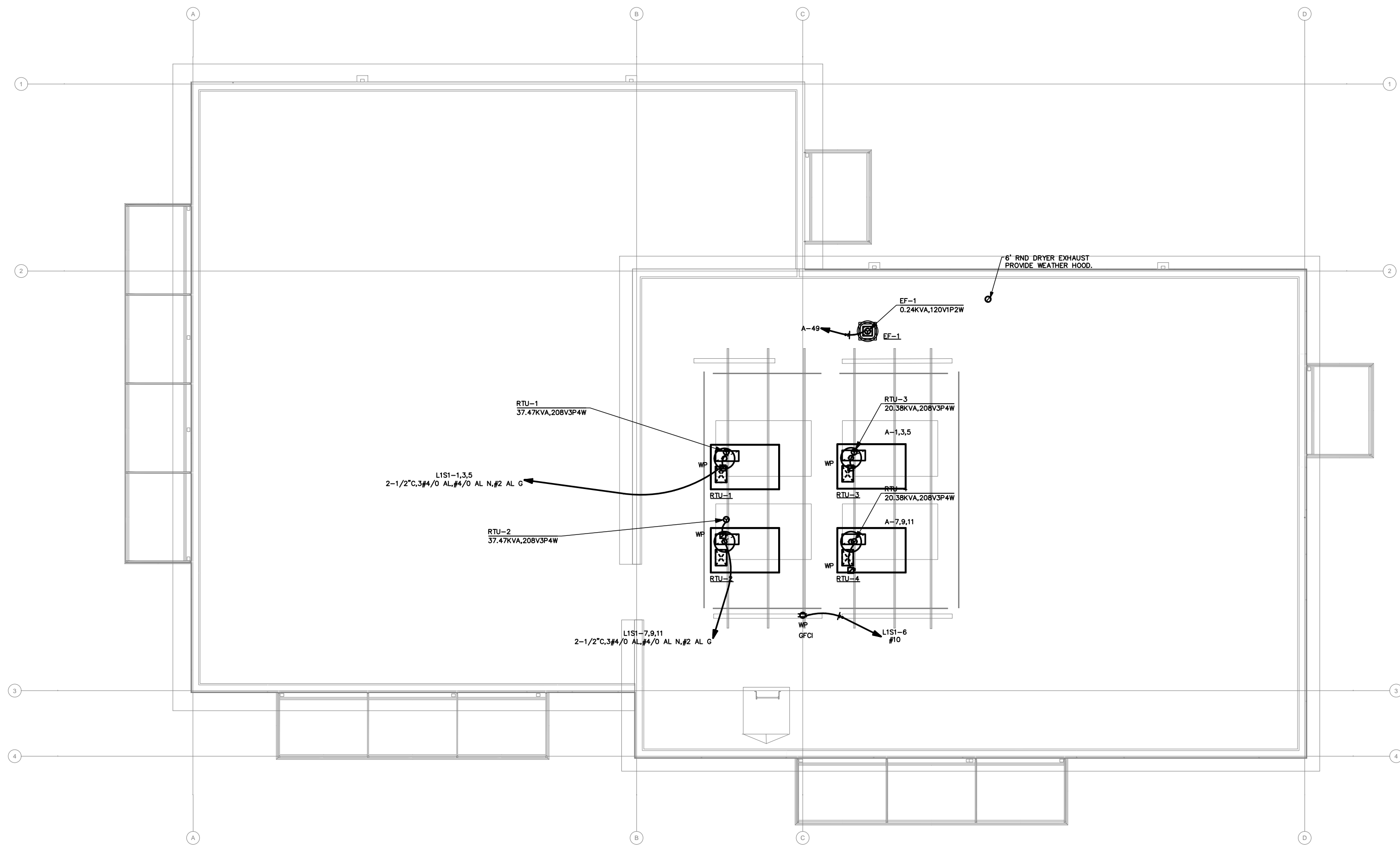


DRAWN:	KAS
DESIGNED:	KAS
CHECKED:	STEINKE M.
APPROVED:	STEINKE M.

PROJECT:	EAST TOWN CROSSING LOT 1 TENANT IMPROVEMENT PIONEER WAY & SHAW RD. PUYALLUP, WA
DATE:	07-03-2025
SHEET TITLE:	LEVEL 1 LIGHTING AND POWER
SHEET NO.	E3.0

19401 40TH AVE. W. SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 364-3343





ROOF POWER PLAN

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

NO.	DATE	REVISIONS
	12/31/24	DESCRIPTION
	02/20/25	PERMIT SET
	04/22/25	STREET LIGHTING REVISIONS
	07/03/25	PERMIT SET 3
		PERMIT SET 4



DRAWN: KAS	CHECKED: STEINKE M.
DESIGNED: KAS	APPROVED: STEINKE M.

PROJECT: EAST TOWN CROSSING LOT 1  
TENANT IMPROVEMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA



ROBISON  
ENGINEERING, INC

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 364-3343

DATE: 07-03-2025
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SHEET TITLE: LEVEL 2/ ROOF LIGHTING AND POWER
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SHEET NO. E3.1
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LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1Administered by: ©2024 NEEA, All rights reserved

Project & Applicant Information

Project Title

East Town Crossing - TI Lot 1 - 2021 WSEC

Project Address

Pioneer Way & Shaw Rd.  
Puyallup, WA 98372

Applicant Name

Nick Nagy

Applicant Phone

206-364-3343

Applicant Email

nnagy@robisonengineering.com

For Building Department Use:

Date: May 31, 2024

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy

All Commercial

General Building Use Type

Retail, General Sales

Building Cond. Floor Area

4,715

Project Cond. Floor Area

4,715

Floors Above Grade

1

Compliance Method

General Prescriptive

Lighting Project Description

Lighting Compliance Scope and Method

Project Type

Shell & Core

Interior / Exterior (Interior includes both interior & parking)

Interior Lighting

Luminaire Replacement Scope

Compliance Method

Space by space

LPA Calculation Adjustment

Reduced lighting power density option - 20%

Compliance Verification

COMPLIES

Additional Energy Efficiency (AEC) Measures Included

Reduced lighting power density - 10% lower than LPA  
Reduced lighting power density - 20% lower than LPA

Load Management (LDM) Measures Included

No lighting or electrical load management measures included in project

Project Title

East Town Crossing - TI Lot 1 - 2021 WSEC

Date

May 31, 2024

Lighting Power Calculation

SHELL & CORE - INTERIOR LIGHTING

Compliance Verification

COMPLIES

Compliance Method

Space by space

LPA Calculation Adjustment

LPA x 0.8

Interior Lighting Power Allowance - Space by Space

General Space Type

Specific Space Type

Gross Interior Area (SF)

LPA (Watts/SF)

Total Watts Allowed (SF x LPA x 0.8)

Total Proposed Watts (LPD + Display LPD)

Compliance Status

Electrical/mechanical

General sales

51

0.43

22

Proposed Total LPD

399

Totals

Calculation Adjustment Applied - LPA x 0.8

3,935

399

COMPLIES

Proposed Lighting Power Density

Fixture Type

Fixture ID

Quantity of Fixtures (#F)

Watts or Wattage Limit per Fixture (WpF)

Total Linear Feet (LF)

Watts per Linear Foot (WpLF)

Total Watts Proposed (#F x WpF) or (LF x WpLF)

Individual Fixtures

Horizontal surface-mount

S1

21

19

399

Proposed Total LPD

399

Project Title

East Town Crossing - TI Lot 1 - 2021 WSEC

Date

May 31, 2024

Proposed Fixtures Details

SHELL & CORE - INTERIOR LIGHTING

Fixture Type/Application

Fixture ID

Location in Documents

Lamp Type

New or Existing-to-Remain

Individual Fixtures

https://waenergycodes.com/print\_project\_summary\_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3lIN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2ludGVyaW9y... 1/2

5/31/24, 1:15 PMwaenergycodes.com/print\_project\_summary\_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3lIN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2l...

Horizontal surface-mount	S1	E3.0	LED	New
Fixture Description: 4" LED LINEAR STRIP		Are these fixtures located within a daylight zone?: Yes, controls provided		
Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)		Do these fixtures require specific application lighting controls?: None required		

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1Administered by: ©2025 NEEA, All rights reserved

Project & Applicant Information

Project Title

Hotworx - 2021 WSEC

Project Address

PIONEER WAY AND SHAW RD.  
Puyallup, WA 98372

Applicant Name

Kaneez Sheikh

Applicant Phone

206-364-3343

Applicant Email

ksheikh@robisonengineering.com

For Building Department Use:

Date: Jun 26, 2025

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy

All Commercial

General Building Use Type

Retail, Lifestyle Center

Building Cond. Floor Area

2,046

Project Cond. Floor Area

2,046

Floors Above Grade

1

Compliance Method

General Prescriptive

Lighting Project Description

Lighting Compliance Scope and Method

Project Type

New Building

Interior / Exterior (Interior includes both interior & parking)

Interior Lighting

Luminaire Replacement Scope

Compliance Method

Building area

LPA Calculation Adjustment

No Calculation Adjustments selected

Compliance Verification

COMPLIES

Additional Energy Efficiency (AEC) Measures Included

No lighting or electrical additional energy efficiency measures included in project

Load Management (LDM) Measures Included

No lighting or electrical load management measures included in project

Project Title

Hotworx - 2021 WSEC

Date

Jun 26, 2025

Lighting Power Calculation

NEW BUILDING - INTERIOR LIGHTING

Compliance Verification

COMPLIES

Compliance Method

Building area

LPA Calculation Adjustment

none

Interior Lighting Power Allowance - Building Area

Building Areas

Gross Interior Area (SF)

LPA (Watts/SF)

Total Watts Allowed (SF x LPA x 1)

Total Proposed Watts By Building Area

Compliance Status by Building Area

Exercise center

2,046

0.67

1,371

720

COMPLIES

Proposed Lighting Power Density

Fixture Type/Application

Fixture ID

Building Area

New or Existing-to-Remain

Quantity of Fixtures, CLDs or Luminaires (#F)

Watts per Fixture, CLD or Luminaire (WpF)

Total Linear Feet (LF)

Watts per Linear Foot (WpLF)

Total Watts Proposed (#F x WpF) or (LF x WpLF)

Individual Fixtures

Recessed downlight

A

Exercise center

New

5

12

60

Suspended

B

Exercise center

New

11

60

660

Project Title

Hotworx - 2021 WSEC

Date

Jun 26, 2025

Proposed Fixtures Details

NEW BUILDING - INTERIOR LIGHTING

Fixture Type/Application

Fixture ID

Location in Documents

Lamp Type

Building Area

New or Existing-to-Remain

Individual Fixtures

Recessed downlight

A

E1.00

LED

Exercise center

New

Fixture Description: 6" DOWNLIGHT

Are these fixtures located within a daylight zone?: No

Do these fixtures require specific application lighting controls?: None required

https://waenergycodes.com/print\_project\_summary\_form.php?k=aWQ9MzQ0ODImZnZpPTIzJmN0aT0=&print=1 1/2

6/26/25, 11:34 AMwaenergycodes.com/print\_project\_summary\_form.php?k=aWQ9MzQ0ODImZnZpPTIzJmN0aT0=&print=1

Suspended	B	E1.00	LED	Exercise center	New
Fixture Description: UFO HIGH BAY LIGHT		Are these fixtures located within a daylight zone?: No			
Do these fixtures require specific application lighting controls?: None required					

REVISIONS	DESCRIPTION	PERMIT SET	STREET LIGHTING REVISIONS	PERMIT SET 3	PERMIT SET 4
NO.	DATE	12/31/24	02/20/25	04/22/25	07/03/25



DRAWN: KAS	DESIGNED: KAS	CHECKED: STEINKE M.	APPROVED: STEINKE M.
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PROJECT: EAST TOWN CROSSING LOT 1  
TENANT IMPROVEMENT  
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302  
LYNNWOOD, WA 98036  
PHONE: (206) 364-3343

ROBISON  
ENGINEERING, INC

DATE:  
07-03-2025

SHEET TITLE:  
ENERGY FORMS

SHEET NO.  
E4.0