

3015 MISSION BEACH ROAD TULALIP, WA 98271



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MECHANICAL

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- M1.2 SCHEDULES M1.3 SCHEDULES
- M1.4 SCHEDULES
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E5.0	ELECTRICAL PANEL SCHEDULES

E5.1 EXISTING MCC SCHEDULE



BUILDING

UTILITY

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TRIBE

TULALIP

ROAD

SION BEACH I WA 98271

S

3015 MISS TULALIP,

ISSUE LIST **BID ISSUE**

COVER

A0.00

CONSTRUCTION

1. ALL CONSTRUCTION SHALL COMPLY WITH THE **2018 INTERNATIONAL BUILDING CODE** AS ADOPTED BY THE WASHINGTON STATE, STATE REGULATIONS FOR BARRIER FREE DESIGN, WA STATE ENERGY CODE, AND ALL APPLICABLE LOCAL CODES, ORDINANCES, AND STANDARDS. IN CASE OF ANY CONFLICT WHERE THE METHODS OR STANDARDS OF INSTALLATION OF THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS.

2. SECURE RELEVANT TRIBAL AND STATE APPROVALS RELATING TO FIRE, CONSTRUCTION, LABOR, HEALTH AND LICENSING. CONTRACTOR SHALL FURTHER POST ALL BONDS AND SECURE ALL INSURANCE REQUIRED BY LAW OR CONTRACT, FORWARDING PROOF OF SUCH ACTIONS TO THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

3. WORK NOT INCLUDED IN THIS CONTRACT SHALL BE MARKED "N.I.C." OR SPECIFICALLY ASSIGNED TO ANOTHER PARTY.

4. CONTRACTOR SHALL VISIT THE SITE, REVIEW THE DRAWINGS AS SUBMITTED BY THE ARCHITECT, AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.

5. ALL WORK SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS LATEST RECOMMENDATIONS OR WRITTEN DIRECTIONS.

6. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

7. WHERE DEVICES OR ITEMS OR PARTS THEREOF ARE REFERRED TO IN SINGULAR, IT IS INTENDED THAT SUCH SHALL APPLY TO AS MANY SUCH DEVICES, ITEMS OR PARTS AS ARE REQUIRED TO PROPERLY COMPLETE THE WORK.

8. VERIFY ALL "BUILDING STANDARDS" WITH BUILDING OWNER PRIOR TO BEGINNING ANY WORK. HOWEVER, THERE SHALL BE NO DEVIATIONS WHATSOEVER FROM THE CONTRACT DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL. THE CONTRACTOR AGREES TO DEFEND, INDEMNIFY, AND HOLD THE ARCHITECT HARMLESS FROM ANY CLAIMS ARISING AS A RESULT OF UNAPPROVED CHANGES.

9. LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

10. VERIFY AND CONFORM TO ALL REQUIREMENTS OF ALL UTILITY COMPANIES UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

11. ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.

12. PROTECT ADJACENT WORK AND REPAIR ANY DAMAGE AT CONTRACTOR'S OWN EXPENSE.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN THE AREA OF WORK IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES.

14. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE BUILDING OWNER/ARCHITECT/ENGINEER HARMLESS FOR INJURY OR DEATH TO PERSONS OR FOR DAMAGE TO PROPERTY CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR, HIS AGENTS, EMPLOYEES, OR SUBCONTRACTORS.

15. APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY ANY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS WELL AS ALL REVISIONS, ADDENDA, AND CHANGE ORDERS. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES WHICH ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

16. MAINTAIN ALL EXIT PATHWAYS DURING CONSTRUCTION.

17. PROVIDE COMPLETE SECURITY OF THE PREMISES WHILE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.

18. AT COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE SITE, LEAVING SPACE CLEAN, WASH ALL WINDOWS AND GLASS, POLISH ALL HARDWARE AND FIXTURES.

19. MINIMIZE DISRUPTIONS TO ADJACENT FACILITIES DUE TO NOISE, ODOR, FUMES, OR VIBRATION. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL COMPLETELY CLEAN ALL AREAS SOILED BY CONSTRUCTION ACTIVITIES INCLUDING THOSE IN WHICH NO WORK WAS DONE.

20. LATHING, PLASTER, AND GYPSUM WALL BOARD SYSTEMS SHALL CONFORM TO CHAPTER 25 OF THE 2018 I.B.C.

21. ALL GLASS AND GLAZING SHALL COMPLY WITH CHAPTER 24 OF THE **2018 I.B.C.** AND THE U.S. PRODUCT SAFETY COMMISSION: SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1426: 16 CFR PART 1201).

22. VERIFY ALL DOOR AND WINDOW ROUGH OPENING DIMENSIONS WITH DOOR AND WINDOW MANUFACTURERS.

23. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DRAWING SHOULD BE CALLED TO THE ATTENTION OF THE ARCHITECT.

24. CONSTRUCT WALLS PLUMB AND SQUARE.

25. COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND COORDINATION OF THE WORK OF ALL TRADES TO ASSURE COMPLIANCE WITH THE DRAWINGS.

26. ANY DEVIATIONS FROM DIMENSIONED LOCATIONS MUST BE APPROVED BY THE ARCHITECT.

DIMENSION

1. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK

2. DIMENSIONS OF PLANS ARE TYPICAL TO THE CENTERLINE OF COLUMNS AND FINISHED GWB FACE OF PARTITIONS, UNLESS NOTED OTHERWISE. DOOR AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE TO BE FOUR (4) INCHES FROM THE FACE OF THE ADJACENT PARTITION OR CENTERED BETWEEN PARTITIONS.3. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY THE ARCHITECT IF DISCREPANCIES ARE FOUND.

CONSTRUCTION

1. INVESTIGATE AND VERIFY LOCATIONS OF EXISTING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL ELEMENTS AND OTHER EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK

2. COORDINATE CONSTRUCTION SCHEDULING WITH THE BUILDING OWNER TO ALLOW ONGOING OPERATION OF THE FACILITY DURING CONSTRUCTION.

3. PROVIDE BLOCKING AS REQUIRED FOR WALL AND CEILING MOUNTED ITEMS.

4. OFFSET STUDS WHERE REQUIRED SO THAT FINISH WALL SURFACES WILL BE FLUSH.

5. PROVIDE GALVANIC ISOLATION BETWEEN DISSIMILAR METALS.

6. ALL DEMOLISHED MATERIALS TO BE RECYCLED TO AN APPROVED RECYCLER.

CEILING

DOOR

FINISH AND MATERIALS

			, <u>,</u>		
	RESPONSIBILITY MATRIX	OFOI	OFCI CFO	CFCI	REMARKS
	Div. 2 - Existing Conditions - Demolition				
PLUMBING, MECHANICAL & ELECTRICAL	2.191 Demo Existing Maintenance Facility and Office			x	By Allowance
1. PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS ARE TO BE SUBMITTED UNDER SEPARATE	2.191 Demo Existing Lab Building			x	By Allowance
PERMIT.	2.206 Demo Existing Paving at Perimeter			x	By Allowance
2. MECHANICAL & ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE TO MAINTAIN COMPLIANCE	2.212 Hazardous Materials Testing and Abatement			x	By Allowance
WITH APPLICABLE CODES AND STANDARDS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS.					
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE REQUIRED PERMITS FOR WORK.	Div. 6 - Finish Carpentry				
THE PROPOSED SYSTEM DESIGN & METHOD OF OPERATION FOR ALL ROOMS SHALL BE REVIEWED AND APPROVED BY THE TENANT PRIOR TO THE START OF ANY WORK.	6.208 Lobby Reception Desk			x	
4. OWNER, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS	6.208 Billing Office back wall casework			х	
ARE SUPPLEMENTARY TO THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL	6.208 Paneling at Entry Lobby			x	
DISCREPANCIES BETWEEN THE CONSULTANTS' DRAWINGS WITH A WRITTEN REQUEST FOR CLARIFICATION. ANY WORK INSTALLED IN CONFLICT WITH THESE DRAWINGS OR SPECIFICATIONS	6.208 Breakroom upper and lower cabinets			x	
SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE BUILDING OWNER, TENANT, OR ARCHITECT.	6.208 Copy Room Casework			x	
	6.208 Lab storage casework			x	
ALL CABLING AND WIRING NOT IN CONDUITS OR FULL SURROUND CABLE TRAYS SHALL HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DEVELOPMENT RANGE OF LESS THAN 50.	6.208 Copy Room Casework			x	
6. ALL EXPOSED MATERIAL & PIPING IN RETURN AIR PLENUM MUST MEET FS 25.	6.208 Open Office Meeting area video wall casework			x	
7. ALL PLUMBING AND HVAC PIPE AND DUCTWORK IN PLENUM SHALL HAVE A FLAME SPREAD RATING				_	
OF LESS THAN 25 AND A SMOKE DEVELOPMENT RANGE OF LESS THAN 50	Div. 10 Specialties				
	10.000 Toilet, locker Room, and Janitor Closet Accessories			X	
SUBMITTALS AND WARRANTY	10.260 Shower Curtains			X	
1. SUBMIT A LIST OF PROPOSED PRODUCT SUBMITTALS AND SHOP DRAWINGS TO THE OWNER FOR	10.400 Identification Devices			X	
APPROVAL PRIOR TO START OF CONSTRUCTION.	10.426 Main Building Sign			x	By Allowance
ALL PRODUCTS AND MATERIALS SPECIFIED IN THE DRAWINGS (WITH EXCEPTION TO SPECIFIC FINISH COLORS AND FLOORING) ARE INTENDED TO BE ON AN "OR EQUAL" BASIS. ANY PROPOSED	10.520 Fire Extinguishers and Cabinets			X	
SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT IN WRITING FOR APPROVAL WITHOUT DELAY	10.580 Knox Box			X	
OF SCHEDULE.	10.605 Window Blinds			X	By Allowance
ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION, UNLESS OTHERWISE SPECIFIED, AND SHALL BE SO STATED IN CONTRACTOR'S WRITTEN PROPOSAL AND	10.900 Lockers		$\left \right $	x	
AGREEMENT. ALL REPAIRS, CORRECTIONS, DISCREPANCIES, ETC., MUST BE MADE WITHOUT ANY	10.900 Toilet Partitions			×	
ADDITIONAL COST TO THE OWNER, AND WITHIN FIVE (5) DAYS AFTER NOTICE IS GIVEN.	Div. 11 - Equipment				
FIRE PROTECTION	11.000 Appliances (Kitchen and Janitor Closet)			×	By Allowance
1. FIRE PROTECTION DRAWINGS ARE TO BE SUBMITTED UNDER SEPARATE PERMIT.	11.000 Appliances (Kitchen and Janitor Closet) 11.002 Lab Equipment Casework			x	
	11.002 Lab Equipment Casework			x	
IF NECESSARY, PROVIDE FIRE PROTECTION AT ALL PENETRATIONS OF FIRE RELATED ELEMENTS AS REQUIRED BY CODE.	11.002 Lab Island			x	
3. FIRE EXTINGUISHERS: VERIFY LOCATION, TYPE, AND SIZE PER FIRE MARSHAL REQUIREMENTS.	11.002 Lab Storage Shelving			x	
CONTRACTOR TO PROVIDE ALL TEMPORARY AND PERMANENT FIRE EXTINGUISHERS REQUIRED UNDER					
N.F.P.A. 10 MOST RECENT EDITION AND APPROVED BY THE FIRE MARSHAL. CONFIRM ACCEPTABILITY OF LOCATION WITH FIRE MARSHAL PRIOR TO INSTALLATION. PROVIDE FINISHED CABINETS TO MATCH	Div. 13 - Special Construction, FF&E, Furniture, Artwork				
BUILDING STANDARD FOR EXTINGUISHERS AT ALL EXPOSED LOCATIONS.	13.000 Misc. Office Furniture (chair, file cabinet, etc.)	x			
4. FIRE EXTINGUISHERS AND CABINETS SHOULD BE LOCATED SO THAT THE TOP OF THE EXTINGUISHER	13.000 Lobby Furniture other than fixed reception desk	x			
OR CABINET IS NO HIGHER THAN 48" AFF AND THE TOP OF THE EXTINGUISHER OR CABINET HANDLE IS AT LEAST 36" AFF.	13.000 Cubicle Systems	x			
5. PROVIDE AND INSTALL FIRE EXTINGUISHER SIGNAGE (5"X6") ABOVE EACH FIRE EXTINGUISHER OR	13.000 Cubicle System Desks	x			
CABINET WITHIN THE SCOPE OF THE TENANT IMPROVEMENT. MOUNT AT 84" AFF UNLESS OTHERWISE REQUIRED.	13.000 Private office desks, cabinets, and chairs	x			
	13.000 Office Accessories (whiteboards, etc.)	x			
6. EXIT SIGNS AND EXIT ILLUMINATION SHALL CONFORM TO THE 2018 IBC AND THE TULALIP TRIBES FIRE MARSHAL REQUIREMENTS. CONTRACTOR TO PROVIDE AND INSTALL EMERGENCY LIGHTING AND EXIT	13.000 Conference Room Desk, chairs, and credenza	x			
LIGHTING AS REQUIRED BY THE CODE BUILDING DEPARTMENTS . CONFIRM ACCEPTABILITY OF LOCATIONS WITH THE BUILDING OWNER BEFORE INSTALLATION. CONTRACTOR SHALL PROVIDE AND	13.000 Storage area ("Shed") racking	x			
INSTALL AUDIBLE ALARMS IN ACCORDANCE WITH IBC ARTICLE 9. CONTRACTOR SHALL PROVIDE AND INSTALL VISIBLE ALARM SIGNALS AS REQUIRED BY ADA GUIDELINES. CONTRACTOR SHALL PROVIDE	13.000 Billing office furniture - except fixed back wall casework	x			
AND INSTALL ALL SMOKE DETECTORS AND SMOKE DETECTION AS REQUIRED UNDER ARTICLE 9 OF THE	13.000 Kitchen Break Room tables, chairs, supplies	х			
IBC. THE INSTALLATION OF THE ABOVE NOTED SYSTEM SHALL INCLUDE THE CONNECTION TO AND/OR MODIFICATION OF THE EXISTING BUILDING SYSTEMS, AS NECESSARY.	13.000 Waste baskets, Floor Mats, desk lamps, etc.	x			
7. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL	13.000 Misc. FF&E Allowance	x			
KNOWLEDGE OR EFFORT.				_	
8. FLAMMABLE LIQUIDS SHALL NOT BE PLACED, STORED, OR DISPENSED IN THIS OCCUPANCY EXCEPT	Div. 21 - Fire Suppression				
AS PROVIDED IN NFPA STANDARD 30 AND THE 2018 INTERNATIONAL FIRE CODE . PERMIT MAY BE REQUIRED.	21.000 Fire Suppression			×	
9. ALL DRAPES, HANGINGS, CURTAINS, AND ALL OTHER DECORATIVE MATERIAL, INCLUDING CHRISTMAS	Div. 22 - Plumbing				
TREES THAT WOULD TEND TO INCREASE THE FIRE AND PANIC HAZARD SHALL BE MADE FROM NONFLAMMABLE MATERIAL, OR SHALL BE TREATED AND MAINTAINED IN A FIRE RETARDANT CONDITION	22.001 Relocate Power Wash System			×	
BY MEANS OF A FLAME RETARDANT SOLUTION OR PROCESS APPROVED BY THE FIRE MARSHAL.	22.001 Emergency Eye Wash and deluge shower			x	
PROVIDE A CERTIFICATION TO THIS EFFECT. EXIT DOORS, EXIT LIGHTS, AND FIRE EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED OR OBSTRUCTED BY ANY DECORATIVE MATERIAL. MINIMUM					
FLAME SPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL BE PER TABLE 803.9, SECTION 803.1 OF THE 2018 IBC .	Div. 26 - Electrical				
	26.004 Emergency Generator - new and/or relocated			x	
10. ALL REQUIRED FIRE DOORS SHALL BEAR A LABEL FROM A RECOGNIZED AGENCY SHOWING THE SPECIFIC RATING.	26.005 Connections to Booster Pump			x	
		1			
CEILING	Div. 27 - Communications				
1. REFLECTED CEILING PLAN IS FOR THE GENERAL INFORMATION OF THE CONTRACTOR. EXACT	27.001 - Connect data to Booster Pump	x			
LOCATIONS SHOULD BE VERIFIED.	27.001 - PLC Systems			х	
DOOR	27.001 - PLC Network Switches	x			TDS Networks
1. ALL DOOR HARDWARE TO MEET REQUIREMENTS OF 2018 IBC AND OWNER'S BUILDING	27.001 - PLC Servers	x			TDS Networks
REQUIREMENTS.	27.001 - Government Network switches/wifi	x			TDS Networks
2. COORDINATE ALL KEYING REQUIREMENTS WITH OWNER. CONTRACTOR SHALL PROVIDE ALL LOCKSET	27.001 - Government Network UPS	x			TDS Networks
CYLINDERS TO MATCH OWNER STANDARD. CONTRACTOR SHALL RE-KEY ALL DOORS TO MEET TENANT AND OWNER'S REQUIREMENTS.	27.001 - Data Room Network Rack	x		_	TDS Networks
	27.001 - Conference Room AV equipment	x			TDS Networks
FINISH AND MATERIALS	27.001 - Desktop Workstations/UPS, Printers, TVs	x	$\left \right $		TDS Networks
1. SUBMIT FINISH SAMPLES TO TENANT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS.	27.001 - Copper and fiber cable 27.001 - Cable TV equipment and cabling	x		_	Salish Networks Salish Networks
2. INTERSECTION OF SCHEDULED FLOORING MATERIALS ARE TO OCCUR AT CENTERLINE OF DOOR	27.001 - Cable TV equipment and cabling 27.001 - Phones, Fax lines	x			Salish Networks
WHEN IN A FULLY CLOSED POSITION UNLESS NOTED OTHERWISE.	27.005 - Future Data Conduit			x	Salish Networks
3. PROVIDE APPROPRIATE TRANSITION MATERIAL AS REQUIRED WHERE DISSIMILAR FLOORING MATERIALS INTERSECT.	27.001 - Systems Integration			x	Owner Preferred Vendors: TSI, Parametrix
	-	1			
	Div. 28 - Electronic Safety and Security				
	28.000 - Security	x			TDS Security
	28.000 - Keyboxes, TimeClocks, Key Authorizers	x			TDS Security
	28.000 - Door Controllers and associated wiring	ļ		x	TDS Security/ Salish Network Infrastructure
	28.000 - Access Point Card Readers and associated wiring	x		_	TDS Security/ Salish Network Services
	28.000 - Exterior Cameras	x		_	TDS Security
				_	
	Div. 32 - Exterior Improvements 32.004 - Site Fencing and Gates and modifications to				
		1	ļ		

PROJECT DATA

PROJECT ADDRESS:

JURISDICTION: PARCEL NUMBER: ZONING: OCCUPANCY CLASSIFICATION: TYPE OF CONSTRUCTION: SPRINKLERED: NUMBER OF STORIES: SQ. FT. OF BUILDING: SQ. FT. OF IMPROVEMENT

TULALIP TRIBES UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA, 98271 SNOHOMISH COUNTY 00616500600100 - 00616500601200 TRIBAL **B - OFFICE** TYPE V-B NFPA 13 2 6,992 SQ.FT. 6,992 SQ.FT.

LEGAL DESCRIPTION

NE1/4 SEC34 T30N R4E

DESCRIPTION OF WORK

DEMOLITION OF EXISTING ADMINISTRATION AND LAB BUILDINGS. REPLACE BUILDING WITH NEW COMBINED FACILITY 40'X90'.

DEFERRED SUBMITTALS

- 1. ENGINEERED ROOF TRUSS SHOP DRAWINGS. 2. ENGINEERED FLOOR SYSTEM SHOP DRAWINGS.
- 3. BUILDING SIGNAGE.
- 4. VENDER DESIGN EXTERIOR STEEL STAIR, LANDING, AND CANOPY. 5. STRUCTURAL DESIGN FOR WASHER SHED AND ASSOCIATED RETAINING WALLS.

APPLICABLE CODES

NATIONAL

VICINITY MAP

2018 INTERNATIONAL BUILDING CODE W/ WASHINGTON STATE AMENDMENTS (51-50 WAC) 2018 INTERNATIONAL FIRE CODE W/ WASHINGTON STATE AMENDMENTS (51-54 WAC) 2018 INTERNATIONAL MECHANICAL CODE W/ WASHINGTON STATE AMENDMENTS (51-52 WAC) 2018 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

REGIONAL: 2018 WASHINGTON STATE ENERGY CODE (51-11 WAC) 2018 WASHINGTON STATE ADMINSTRATIVE CODE (WÁC)

LOCAL: TULALIP TRIBES COMPREHENSIVE PLAN LAND USE

WSEC EFFICIENCY PACKAGE CREDITS - FROM TABLE C406.1:

2. REDUCED LIGHTING POWER: OPTION 1 IN ACCORDANCE WITH SECTION C406.3.1 6. DEDICATED OUTDOOR AIR SYSTEM IN ACCORDANCE WITH SECTION C406.6



ISSUE LIST BID ISSUE

03/21/2024





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GENERAL NOTES A0 01

2018 WSE0	18 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 Administered by: ©2023 NEEA, All rights reserved											
		Project Titl	e	TULALIP	TRIBES - UTIL	ITY BUILDING - 2	018 WSEC	For Buildin	g Department U	Jse:	Date	: Jul 13, 2023
		Project Add	Iress			N BEACH ROAD		Date.				<u>. Jul 13, 2025</u>
Project & A Informatio						le, WA 98271		-				
mormatio	11	Applicant N Applicant P				7 Longino 774-3829		-				
		Applicant F				a)harrisgroup.com		-				
				tact WSEC Com			9-5300 or via email a	t com techsu	nnort@waeners	vcodes com		
		T of questions us	our uns report, con			ai support at 500 5.		e connectionsu	pponteginuoneig	5) eo debieo in		
General Oc	ecupancy		All Commercia	1	General Build	ing Use Type	Labora	atory	Building Cor	ıd. Floor Area		7,263
			New Build	ling			A 140-004-000		Project Cond	l. Floor Area		7,236
General Pr	oject Types	New Buil	0		Multiple Zone	e Systems & Equipn	nent Alteration Mechanical So	ope	Floors Above			2
			Mechanic	-					Compliance			ce Method 1 - General
Mechanica	Project Description	DOAS II	NCLUDES ELECT	RIC DUCT HEA	ATERS FOR TE	EMPERING THE O	SA. BUILDING ALS) INCLUDE	S (3) EXHAUS	T FANS CONNECT	ED TO FUM	ON AND EXHAUST, IE HOODS WITH (1) IEATERS FOR FREEZE
			T T			Economizer						Equipment Efficiency
	Mechanical Compliance Scope and Method		Project Type	Mechanica	-	Exception(s) Applied?	DOAS Ver Provid		Effi	Higher Equipment ciency Option Appli	ed?	Compliance Verification
			New Building	Multiple Zone Equipn		Yes	Yes	8		NA		COMPLIES
	luded (AEC)						Dedicated or	utside air sys	stem (DOAS) o	ption		
Does buildi DOAS?	ng include occupancy classificat	ions requiring		No		Does project inclu	de DOAS equipmen	t?			Yes	
Based on p	roject scope do TSPR requireme	ents apply?		No		Do all systems con TSPR?	nply with Appendix 1	D standard	reference desig	n or qualify for an e	exception to	No
Scope & Space Conditioning NEW BUILDING - MULTIPLE ZONE SYSTEMS & EQUIPMENT												
Scope &	Space Conditioning	NEW BU	ILDING - MU	LTIPLE ZON	IE SYSTEM	S & EQUIPME	NT			Compliance V	verification	n COMPLIES
	Space Conditioning one Air Systems Category - Heat		ILDING - MUI	LTIPLE ZON	NE SYSTEM	S & EQUIPME	NT			Compliance V	Verification	n COMPLIES
- Multiple Zo	one Air Systems Category - Heat		ILDING - MU	LTIPLE ZON	NE SYSTEM	S & EQUIPME	NT	_		Compliance V	Verification	n COMPLIES
- Multiple Zo	one Air Systems Category - Heat s Summary Information	pump, unitary	ILDING - MU		NE SYSTEM	S & EQUIPME	NT Paired with DO	AS	Ventilati	Compliance V	/erification	n COMPLIES
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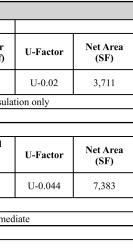
Air-side economizer exception applied: Exp 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps
Proposed Low OSA Temp Efficiency: 3.6	LTH Units: COP
WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps	

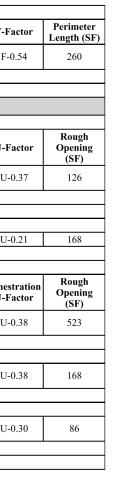
ENVELOPE COMPLIANCE SUMMARY

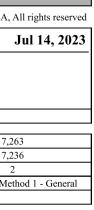
A A A A A A A A A	2018 WSEC Com	pliance Forms fo	r Commercial	Buildings including Gr	oup R2,	R3 & R4 over 3 stories and all	R1				Admin	istered by: ©	2023 NEEA, Al	rights reserved		
Project Address Project A				Project Title		Tulalip New Utilities I	Building - 201	18 WSEC	For Bui	uilding Department Use: Date: Aug 04, 2023						
Infernation in the intervalue is the intervalue				Project Address								Ľ		<u> </u>		
Applicate Tome 432-524-512 Applicate Tome 432-524-512 Complicate Tome 400 Commercial Technical Support al 305-529.500 er via enail at com neclear port/journenergycodo-com Complicate Tome Complicate Tome Subing Cond. Flor Are a 6.992 Project Cond. Flor Are a 6.992 Compliance Conditioning Categories Project Cond. Flor Are a 6.992 Compliance Method Mere Gategory Compliance Method Compliance Method Compliance Method Compliance Method Compliance Method Mere Gategory Compliance Method Mere Restructure Method Compliance Method Compliance Method Mere Restructure Method Compliance Method Compliance Method Compliance Method <th colspa<="" td=""><td></td><td>ant</td><td></td><td>Applicant Name</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></th>	<td></td> <td>ant</td> <td></td> <td>Applicant Name</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>		ant		Applicant Name			1								
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For gravitors: showt this report, contact MSEC Commercial Technical Support at 360-3379-3300 or var small at controbusproti@varentgraveds.com All Commercial General Building Use Type(s) Office, Covertment MMSEC Control or varental at controbusproti@varentgraveds.com Project Scope Now Building Space Conditioning Categories Project Cond. Float Area 6.992 Envelope Project Description A 2-story building of 6.992 of floor area, housing a wate water testing lab and offices for the public utility. Building as words water description at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water function at water vare testing lab and offices for the public utility. Building as words water vare testing lab and offices for the public utility. Building as words water vare testing lab and offices for the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare testing lab and the public utility. Building as words water vare tes									1							
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Learend Loop area 			10	r questions about this re	<i>pon</i> , coi	mater WBEC Commercial Teenin	near Support	at 500-557-5500 01 v		at confidentiappe	nt@waenergyeodes.com					
Projest Scope New Building Space Conditioning Categories Paily Conditioned Image Partice Reference	General Occupan	ncy		All Commercial	Gener	ral Building Use Type(s)	C	· · · · · · · · · · · · · · · · · · ·	Iunicipal	¹ Building	Cond. Floor Area		6,992			
Image: constraint of the constrain										Project C	ond. Floor Area		6,992			
A 2-story building of 6,992 of floor area, boosing a waste water tosting lab and offices for the public utility. Building is wood-framed, metal clad, with aluminar store/fort type windows, and a shed root. Envelope Compliance Method Sope Space Conditioning Category Compliance Method WWR/SRR per Category U.A Catelalation Adjustment Fenestration Alternates Compliance Verification Stope and Method New Building Full Conditioned Prescriptive 0.19% / % None selected No alternates selected COMPLIEs Air Barrier Compliance Method Integration Marrier Compliance New Building Stope and Stope	Project Scope			New Building	Space	Conditioning Categories		Fully Condition	ied	Floors Ab	oove Grade		2			
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Air Barrier Testing Air barrier testing included in project scope Air Barrier Comments Project Title Tulalip New Utilities Building - 2018 WSEC Date Aug 04, 2023 Scope & Space Conditioning NEW BUILDING - FULLY CONDITIONED Compliance Verification COMPLIES Window-to-wall Ratio 9.19% Skylight-to-roof-ratio % Vertical Fenestration Alternate No alternates selected Opaque Envelope Assemblies Insulation R-Values Continues Net Area (SF) Roof/Celling Location in Documents Assembly ID Assembly Lesterior Continues R-Value of insulation onty Vertical Fenestration Alternate U-Factor Source (SF) World - Artic and other A.303 and A9.20 Roof Esterior R-49 R-49.0 (< 0.04%) U-Jo.02 3.711 U-Factor Source: Computed U-Factor Source Standard Roof Framing Type (Standard, Advanced): Standard Roof Framing Material: Wood-framed Insulation onty Kef Area (SF) Walls Location in Documents Assembly ID Assembly Location Cavity Continues R-value of insulation onty World - Finance 'Computed U-Factor Source: Computed U-Factor Source Computed U-Factor Source Computed U-Factor Source Computed		New Building		Fully Conditioned		Prescriptive	9.19% / %	6 N	one selec	cted	No alternates selec	ted	COMP	LIES		
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Attic and other CommercialA.3.03 and A9.20RootRedR-490.04%0.04%0.0023,711U-Factor Source: ComputedU-Factor Source: ComputedU-Factor Source: Computed of insulation onlyU-Gactor Source of insulation onlyRoof Framing Type (Standard, Advanced): StandardRoof Framing Material: Wood-framedRoof Framing Material: Wood-framedCeiling/Attic Venting: VentedIs this assembly exterior or interior?: ExteriorIs this assembly exterior?: ExteriorWallsLocation in DocumentsAssembly IDAssembly LocationContinuous (% penetration)Insulated Wall FurringU-Factor SourceU-FactorU-FactorVerArea (SF)Wood-framed and other- CommercialA3.01, A3.02, and Wall Schedule, Sheet A9.10W! and W2ExteriorR-21R-21.0 (< 0.04%)U-0.0447,383Wood-framed and other- CommercialOut-insulation code target does wall comply with?: R-21 Cavity + Intermediate FramingU-Factor Source: ComputedU-0.0447,383U-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal sidingWall Framing Type (Standard, Inter., Advaced): IntermediateTo Standard, Inter., Advaced): Intermediate	Roof/Ceiling		Loc	ation in Documents		Assembly I	ID			Cavity	(%					
Roof Framing Type (Standard, Advanced): Standard Roof Framing Material: Wood-framed Ceiling/Attic Venting: Vented Is this assembly exterior or interior?: Exterior Walls Location in Documents Assembly ID Assembly Location Cavity Continuous (% penetration) Insulated Wall Furring U-Factor Net Area (SF) Wood-framed and other - Commercial A3.01, A3.02, and Wall Schedule, Sheet A9.10 W! and W2 Exterior R-21 R-21.0 (< 0.04%) U-0.044 7,383 Which insulation code target does wall comply with?: R-21 Cavity + Intermediate Framing U-Factor Source: Commercial U-Factor Source: Commercial Wall Framing Type (Standard, Inter., Advanced): Intermediate U-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal siding Wall Framing Type (Standard, Inter., Advanced): Intermediate		Attic and other		A3.03 and A9.20		Roof		Exter	ior	R-49			U-0.02	3,711		
Ceiling/Attic Venting: Vented Is this assembly exterior or interior?: Exterior Walls Location in Documents Assembly ID Assembly Location Cavity Continuous (% penetration) Insulated Wall Furring U-Factor Net Area (SF) Wood-framed and other - Commercial A3.01, A3.02, and Wall Schedule, Sheet A9.10 W! and W2 Exterior R-21 R-21.0 (< 0.04%) U-0.044 7,383 Which insulation code target does wall comply with?: R-21 Cavity + Intermediate Framing U-Factor Source: Computed U-Factor Source: Computed U-0.044 7,383 U-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal siding Wall Framing Type (Standard, Inter., Advanced): Intermediate U-0.044	U-Factor Source: Computed							U-Factor Source	Description: Inverse of R	-value of ins	ulation only					
WallsLocation in DocumentsAssembly IDAssembly LocationCavityContinuous (% penetration)Insulated Wall FurringU-FactorNet Area (SF)Wood-framed and other - CommercialA3.01, A3.02, and Wall Schedule, Sheet A9.10W! and W2ExteriorR-21 $R-21.0 (< 0.04\%)$ U-0.0447,383Which insulation code target does wall comply with?: R-21 Cavity + Intermediate FramingU-Factor Source: ComputedU-Factor Source: ComputedU-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal sidingWall Framing Type (Standard, Inter., Advanced): Intermediate			Roof Framing	g Type (Standard, Advar	nced): St	tandard				Roof Framing M	laterial: Wood-framed					
Walls Location in Documents Assembly ID Assembly ID Location Assembly ID Location Assembly ID Location Assembly ID Penetration Wall Furring U-Factor Net Area (SF) Wood-framed and other- Commercial A3.01, A3.02, and Wall Schedule, Sheet A9.10 W! and W2 Exterior R-21 R-21.0 (< 0.04%) U-0.044 7,383 Which insulation code target does wall comply with?: R-21 Cavity + Intermediate Framing U-Factor Source: Cource - U-Factor - U-Factor Source: Cource - U-Factor			Ceiling/Attic	Venting: Vented						Is this assembly	exterior or interior?: Exter	rior				
Commercial A9.10 W1 and W2 Exterior R-21 0.04% U-0.044 7,383 Which insulation code target does wall comply with?: R-21 Cavity + Intermediate Framing U-Factor Source: Computed U-Factor Source: Computed U-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal siding Wall Framing Type (Standard, Inter., Advanced): Intermediate	Walls		Loc	eation in Documents		Assembly I	ID			Cavity	(% penetration)	Wall	U-Factor			
U-Factor Source Description: Inverse of accumulated R values of wall components - not accounting for metal siding Wall Framing Type (Standard, Inter., Advanced): Intermediate	Wood-fra	Commercial		A9.10					ior	R-21			U-0.044	7,383		
											*					
Framing Depth: 2x6 Framing Spacing: 16"			U-Factor Sou	rce Description: Inverse	e of accu	umulated R values of wall comp	onents - not a	accounting for metal	<u> </u>			inced): Interr	nediate			
			Framing Dept	th: 2x6						Framing Spacing	g: 16"					

	Is this assembly exterior or interior?: Exterior	r					
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Fact
Unheated slab	A3.01, A6.01, dtl. 12, S2.01. S4.11, dtls 7 and 12	Slab on Grade - Finished	At grade level	R-10	R-10		F-0.54
	Slab Insulation Method: 2 ft horizontal (no sl	ab edge insulation)		F-Factor Source: WSE	C Appendix A		
	F-Factor Source Description: Table A106.1						
Fenestration & Opaque Door Ass	emblies						
				Insu	lation R-Values		
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Fact
Swinging	A4.0 and A9.3	Aggregate swinging doors, Per Door Schedule, Sheet A9.30	Exterior				U-0.3
	What percentage of this opaque door is glazin	ng?: 50% or less	•	U-Factor Source: WSE	C Appendix A		
	U-Factor Source Description:			Is this assembly exterio	or or interior?: Exte	erior	
	Is this a public entrance door?: No						
Roll-up	A4.0 and A9.30	RO	Exterior	R-4.7			U-0.2
	U-Factor Source: WSEC Appendix A			U-Factor Source Descr	iption:		
	Is this assembly exterior or interior?: Exterior	r					
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestra U-Fact
Fixed - Class AW or site built	A4.00 and A9.40	A1 thru A9	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.35	U-0.3
	U-Factor & SHGC Source: Other Source			U-Factor Source Descr	iption: specified m	ax values	
	Is this assembly exterior or interior?: Exterior	r					
Operable - Class AW or site built	A4.0 and A9.4	A1 - A9	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.35	U-0.3
	U-Factor & SHGC Source: Other Source			U-Factor Source Descr	iption: specified m	ax values	
	Is this assembly exterior or interior?: Exterior	r					
All other fenestration types	A4.0 and A9.4	A1 - A9	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.35	U-0.3
	U-Factor & SHGC Source: WSEC Appendix			U-Factor Source Descr	iption:		
	Is this assembly exterior or interior?: Exterior	r					

2010 Hobe compriance re	rms for Comm			R2, R3 & R		s and all R1	ilding 2010	WEEC	1171	Building Door of	mont I la	Adm	inistered by:		A, All rights res
		Project 7 Project 4		+		MISSION BE	EACH ROAD		For	Building Depart	inent Use:			Date:	Jul 14, 2
Project & Applicant Information		Applicar				Aarysville, Wa									
		Applicar	nt Phone			206-473-0)603								
		Applicar For questions	nt Email about this report	, contact WS		nad.azeem@h ial Technical			or via emai	l at com.techsur	oport@waen	ergycodes.con	n		
General Occupancy			All Commercia	ıl	General Bui	ilding Use Ty	pe		Utility	/Equip, Other	Building (Cond. Floor A	rea	,	7,263
Ser and Busicst Trues		Narra Da		ilding or	Inte	rior Lighting	Alt	teration				ond. Floor Ar ove Grade	ea		7,236
General Project Types		New Bu	uilding Additio	g Scope	Exte	rior Lighting	Lig	ghting Scope				ce Method		Compliance N	Z Method 1 - Ger
Lighting Project Descriptio	n										1				
Lighting Complia	ince Scope	Project	Type (Interi		· / Exterior oth interior & pa	urking)	minaire Rep	placement Sc		liance Method		LPA Calcu Adjustn		Con	ipliance Veri
and Meth	od	New Bu New Bu			r Lighting r Lighting				Bı	uilding area		ghting power of Not applicable	• •	n - 10%	COMPLIE COMPLIE
Additional Eff Options Incl			lighting power d			han LPA									
•															
Project Title	Tulalip Tribe	s - Utility Bu	ilding - 2018	WSEC									Date	e Jul 14,	, 2023
Lighting Power Calcul	ation	NEW E	BUILDING - I	INTERIO	R LIGHTI	NG						Compliance	e Verificat	ion COMI	PLIES
Compliance Method			Building	area		L	PA Calculat	tion Adjustm	ent					LPA x 0.9	
	1				Interior	Lighting Pov		nce - Building			- Decore	Watt	_	Core 2	- 64-4 ¹
Building Areas	6	ross Interior A	rea (SF)]	LPA (Watts/S	F)		l Watts Allow F x LPA x 0.9)	ed		al Proposed y Building /			Compliance Buildin	g Area
Office		6,880			0.64			3,963			3,459			COME	PLIES
						Proposed Li	ighting Powe	er Density							Total W
Fixture Type/Applicatio	n	Fixture ID	Build	Building Area New or Quantity of Fixtures, CLDs o Existing-to-Remain Luminaires (#F)					Watts per Total Linear Watts per Linear I Fixture, CLD or Feet (LF) Foot (WpLF) (#F				Propos (#F x Wp (LF x W		
Individual Fixtures	offer	Troffer, 4Ft	C	office	Nev	N		51		4	9				2,499
Tro Wall-mou	offer	Troffer, 2FT CE, Interior/Ext		office	Nev Nev			18 2			9 9				882
		TU994 D		WEEG						•			D (T 114	2022
	-	-	ilding - 2018		_	_		_		_		_	Date	e Jul 14,	, 2023
Proposed Fixtures Det	ails		BUILDING - I	INTERIO	OR LIGHTI	NG								N	
Fixture Type/Appl	ication		Fixture ID		I	location in D	ocuments	1	amp Type		Building Ar	ea		New o Existing-to-l	
Individual Fixtures	Troffe	er	Troffer, 4Ft			Plan Drav	wings		LED		Office			New	
		Fixture Descr	iption:							Are these	fixtures loca	ited within a da	aylight zone?	:	
		Do those first		Go omnligati	an lighting age	stua_1a_2.									
	Troffe		res require speci Troffer, 2FT	ne applicati	on lighting cor	Plan drav	wings		LED		Office			New	
		Fixture Descr	iption: ires require speci	fic applicati	on lighting cor	trols?:				Are these	fixtures loca	ted within a da	aylight zone?	:	
	Wall-mounte	d SCC	ONCE, Interior/E			Plan Drav	wings		LED		Office			New	
		Fixture Descr Do these fixtu	iption: ires require speci	fic applicati	on lighting cor	trols?:				Are these	fixtures loca	ited within a da	aylight zone?	:	
Project Title	Fulalin Trib	s _ []tility D.	uilding - 2018	WSFC									Date	e Jul 14.	2023
-	-		-									Concell	_		
Lighting Power Calcul	ation	NEWI	BUILDING - 1	LATERIO								Complianc	e vermeat		
Exterior Lighting Zone						NE 2		Bas	e Site Allo	wance					400
					Exter	ior Tradable	e Lighting Po	ower Allowa	ice						
Tradable Surface	e	Tradable St	urface Sub-Type		Surface rea (SF)	LPA (Watts/SF)	Linear Feet (L)		PA ts/LF)	Total Watts (LPA x (LPA x	SF) or		Tradable sed Watts	Trada	ble Complian Status
Building entrances and	l exits	Pedestrian e	entrances & exits				40	Base Site A	.4 llowance	560 400					
								2450 Dite A	Totals	-101		60 2	282	(OMPLIES
-		T			Prop	osed Tradab	ole Lighting	Power Densi	ty						
Fixture Type	Fixtu	re ID		Tr	adable Surfac	e Type			uantity of (#F)	Watts Wattage per Fix	Limit	Total Linear Feet (LF)		oer Linear (WpLF)	Total W Propos (#F x Wp
••								F1	(#F)	(Wpl		,		/	(LF x W)
Individual Fixtures Wall-mounted	SCONCE, I	WTEDLOD	5.44		and exits - Ped			FI	6		F)				(LF x W)







pliance Verification COMPLIES COMPLIES

Total Watts Proposed (#F x WpF) or (LF x WpLF) 2,499 882 78

de Compliance Status

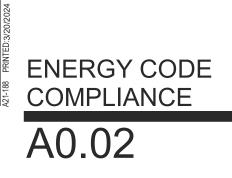
OMPLIES Total Watts Proposed (#F x WpF) or (LF x WpLF) Tradable Proposed Total 282

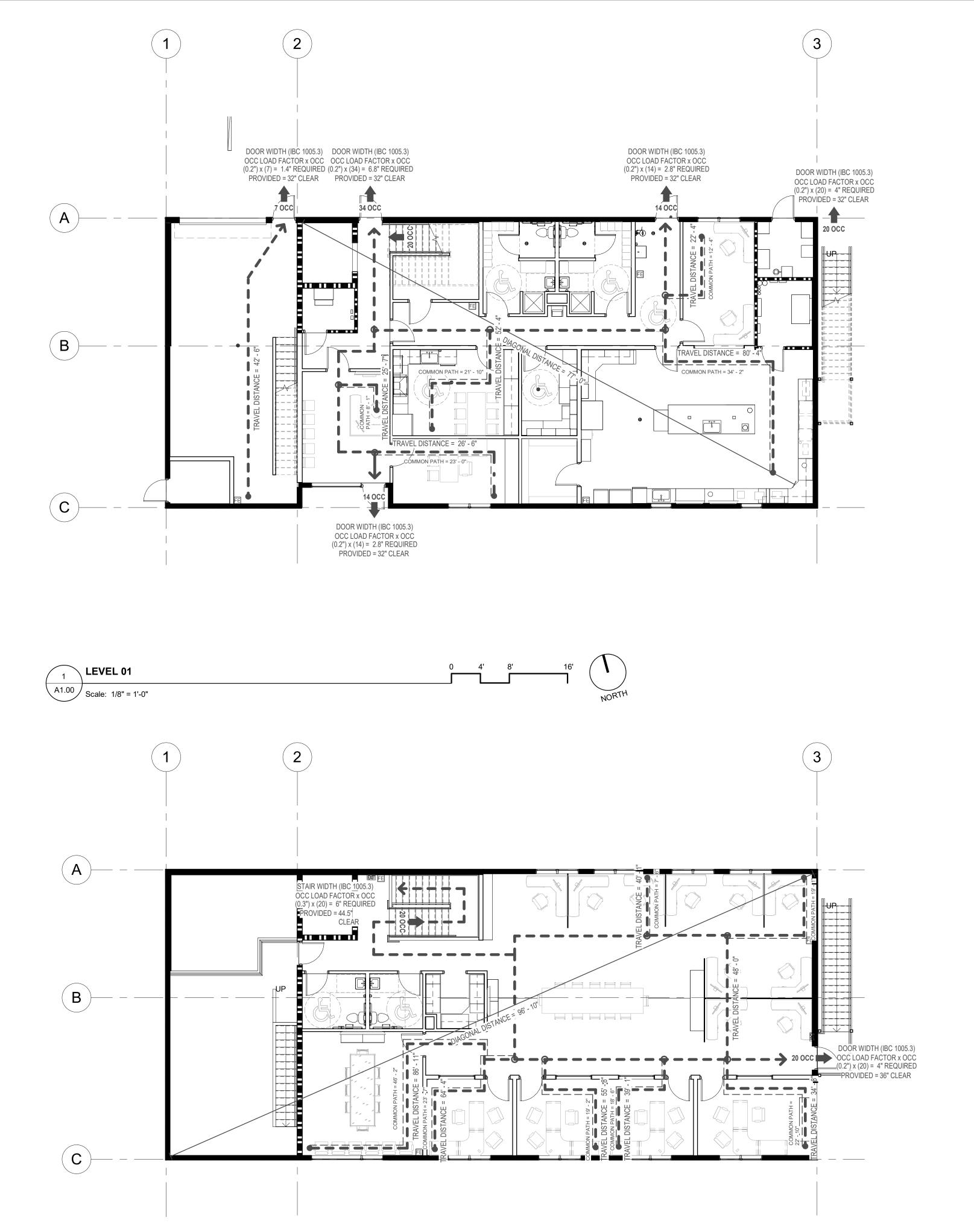


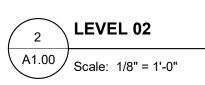
υτιμτγ ROAD 1 TULALIP TRIBES -3015 MISSION BEACH R TULALIP, WA 98271

BUILDING

ISSUE LIST BID ISSUE







NORTH

0 4' 8'

GENERAL NOTES - CODE PLAN

1. FIRE ALARM UNDER SEPARATE PERMIT

2. DOORS IN PATH OF EGRESS CANNOT BE LOCKED FROM SIDE OF TRAVEL OF EMERGENCY EGRESS

3. PROVIDE ONE (1) FIRE EXTINGUISHER (MINIMUM 2A10-B) EVERY 3000 SF (TYP) WITH MAXIMUM 75 LINEAR FEET TRAVEL DISTANCE TO EXTINGUISHER; VERIFY LOCATIONS ARE ACCEPTABLE WITH FIRE MARSHAL. SEE PLAN SHEETS A3.00 AND A3.01 FOR PROPOSED FE LOCAITONS.

4. PROVIDE AND INSTALL SIGNAGE ABOVE THE MAIN ENTRY DOOR ON THE EGRESS SIDE STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"

KEYNOTES - CODE PLAN

CODE SUMMARY

OCCUPANCY: SPRINKLERED:

COMMON PATH OF EGRESS (*IBC TABLE 1006.2.1*): EXIT ACCESS TRAVEL DISTANCE (*IBC TABLE 1017.2*): DEAD END CORRIDOR (*IBC 1020.4*): NUMBER OF EXITS (*IBC 1006*): B- OFFICE NO

75' MAX 200' MAX 20' 2 REQUIRED

34

PLUMBING SUMMARY

(OPTION A - MIXED OCCUPANCIES)	
NUMBER OF OCCUPANTS (FROM PLAN):	

OCCUPANCY: NUMBER OF OCCUPANTS:	Business 34	
WATER CLOSETS - MALE (<u>PER IBC TABLE 2902.1</u>): WATER CLOSETS - FEMALE (<u>PER IBC TABLE 2902.1</u>):	<u>REQUIRED</u> : 1 1	PROVIDED 2 2
LAVATORIES - MALE (<u>PER IBC TABLE 2902.1</u>):	1	2
LAVATORIES - FEMALE (<u>PER IBC TABLE 2902.1</u>):	1	2
DRINKING FOUNTAINS (<u>PER IBC TABLE 2902.1</u>):	0	1
SERVICE SINK (<u>PER IBC TABLE 2902.1</u>):	0	1

LEGEND - CODE PLAN

	NO WORK THIS AREA		LO EG
	EXISTING CONSTRUCTION TO REMAIN	•>	LOI TR/
	NEW WALL CONSTRUCTION	•>	DE
	NEW PARTIAL HEIGHT WALL CONSTRUCTION	└──── ┤	DIA
	1-HOUR RATED WALL	•	FUI
FE	FIRE EXTINGUISHER	0	со
EXIT	INTERNALLY ILLUMINATED EXIT SIGN	0 0000	ос
	INTERNALLY ILLUMINATED EXIT SIGN WITH HORN/STROBE	ROOM NAME A-2 100 SF-	- RO - OC - SQ

	LONGEST COMMON PATH OF EGRESS TRAVEL
⊷ →	LONGEST EXIT ACCESS TRAVEL DISTANCE
•>	DEAD END CORRIDOR
	DIAGONAL DISTANCE
٠	FURTHEST POINT OF ORIGIN
0	COMMON PATH JUNCTURE
0 0 0 C C	OCCUPANCY COUNT AT EXIT
	- ROOM NAME
ROOM NAME	- OCCUPANCY
A-2 100 SF	- SQUARE FOOTAGE
15 (7)-	- OCCUPANT COUNT
	- LOAD FACTOR



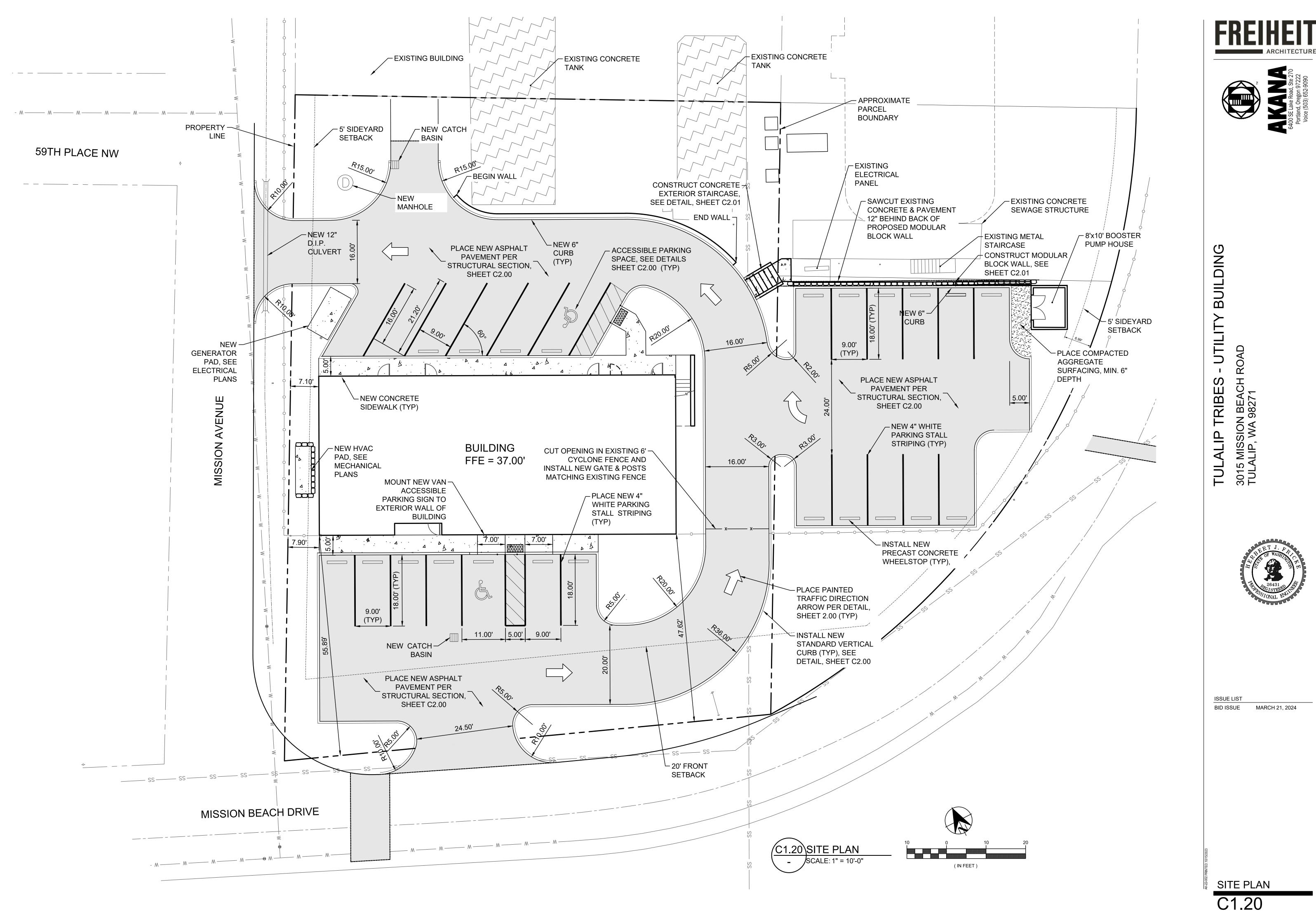
TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271

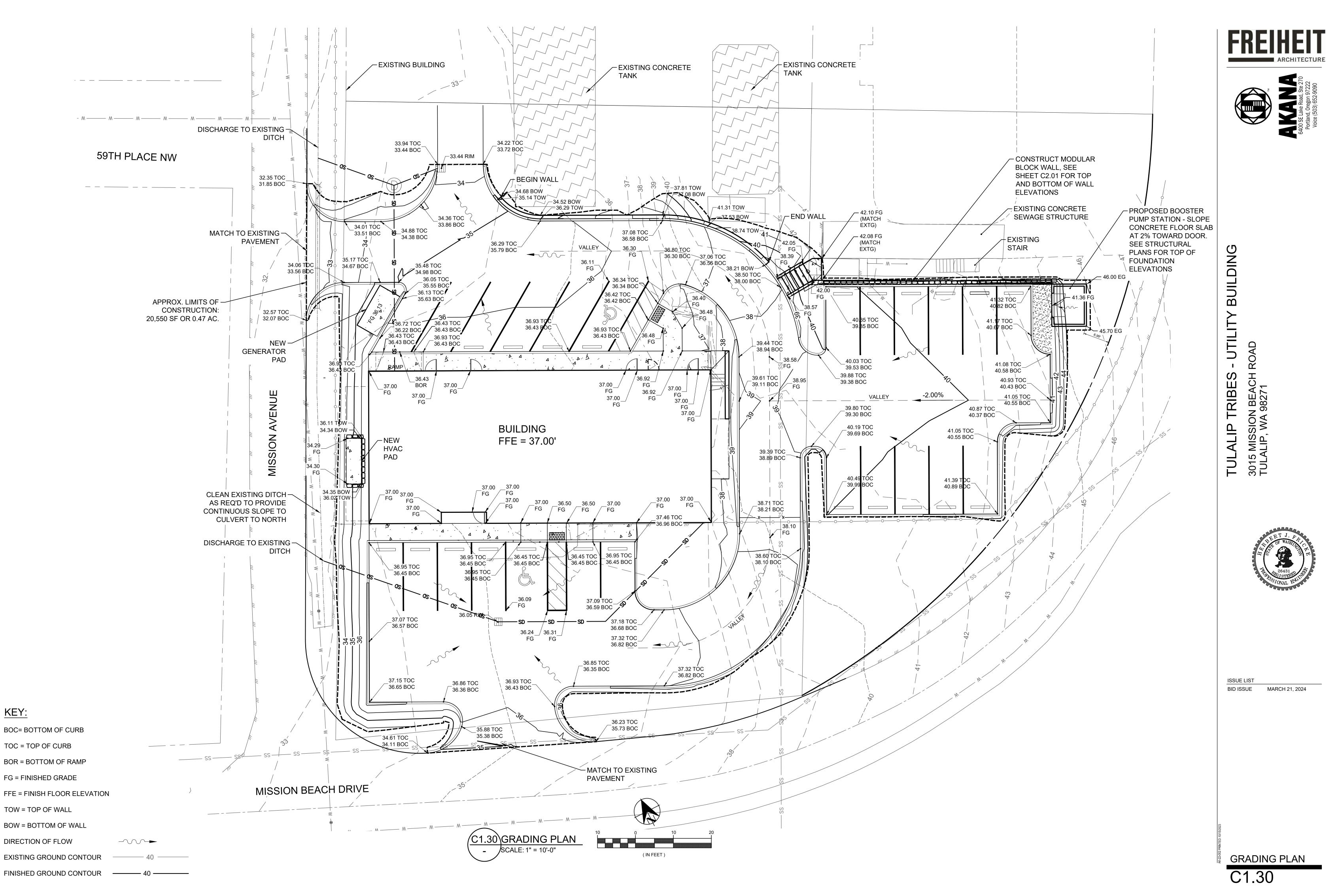
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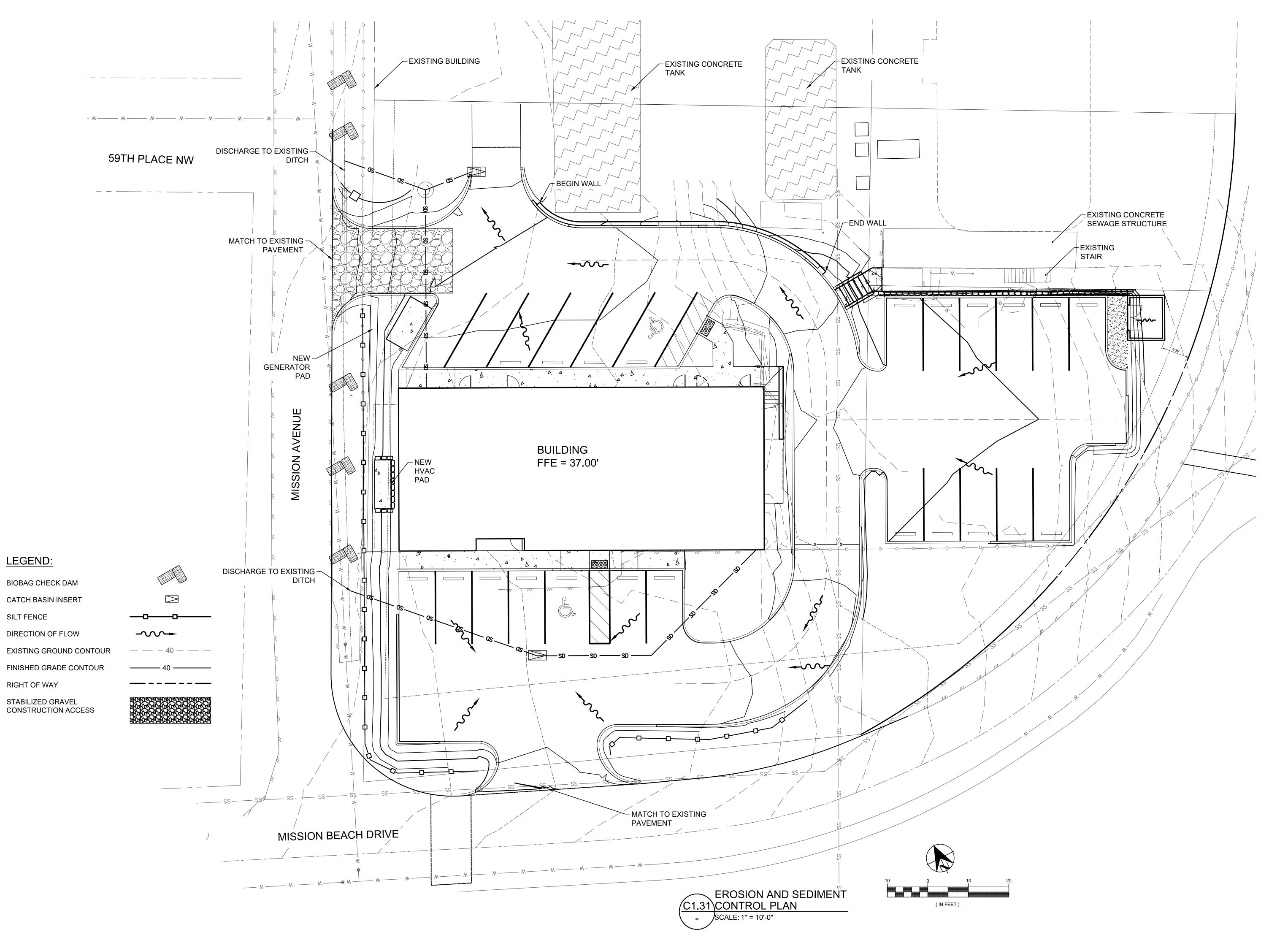
BID ISSUE

CODE PLAN

A1.00







LEGEND:

BIOBAG CHECK DAM

CATCH BASIN INSERT

SILT FENCE

DIRECTION OF FLOW

FINISHED GRADE CONTOUR

RIGHT OF WAY

STABILIZED GRAVEL CONSTRUCTION ACCESS







BUILDING \succ UTILIT ROAD



MARCH 21, 2024

EROSION AND

CONTROL PLAN

SEDIMENT

C1.31

ISSUE LIST BID ISSUE

TULALIP TRIBES -3015 MISSION BEACH F TULALIP, WA 98271

EROSION CONTROL GENERAL NOTES

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OR ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BEST MANAGEMENT PRACTICES (BMP) IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD. NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- 4. THE ESC BMPs SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- 5. THE ESC BMPs SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE ESC BMPs AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- 6. THE ESC BMPs SHALL BE INSPECTED DAILY AND AFTER EACH STORM EVENT BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 7. INSPECT AND MAINTAIN THE ESC BMPs ON INACTIVE SITES A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT (24-HOUR STORM EVENT WITH A 10-YEAR OR GREATER RECURRENCE INTERVAL).
- 8. AT NO TIME SHALL THE SEDIMENT EXCEED 60 PERCENT OF THE SUMP DEPTH OR HAVE LESS THAN 6 INCHES OF CLEARANCE FROM THE SEDIMENT SURFACE TO THE INVERT OF LOWEST PIPE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

SILT FENCE

PURPOSE- TO REDUCE THE TRANSPORT OF COARSE SEDIMENT FROM A CONSTRUCTION SITE BY PROVIDING A TEMPORARY PHYSICAL BARRIER TO SEDIMENT AND REDUCING THE RUNOFF VELOCITIES OF OVERLAND FLOW.

CONDITIONS OF USE:

- 1. DOWNSLOPE OF ALL DISTURBED AREAS.
- 2. SILT FENCE IS NOT INTENDED TO TREAT CONCENTRATED FLOWS, NOR IS IT INTENDED TO TREAT SUBSTANTIAL AMOUNTS OF OVERLAND FLOW. ANY CONCENTRATED FLOWS MUST BE CONVEYED THROUGH THE DRAINAGE SYSTEM TO A SEDIMENT TRAP OR POND. THE ONLY CIRCUMSTANCES IN WHICH OVERLAND FLOW CAN BE TREATED SOLELY BY A SILT FENCE. RATHER THAN BY A SEDIMENT TRAP OR POND, IS WHERE THE AREA DRAINING TO THE FENCE IS SMALL (SEE INTRODUCTION TO THIS SECTION), AND THE AVERAGE SLOPE IS NOT MORE THAN 1.5H:1V.

DESIGN AND INSTALLATION SPECIFICATIONS:

SEE FIGURE ABOVE FOR DETAIL THE GEOTEXTILE USED MUST MEET THE STANDARDS LISTED BELOW. A COPY OF THE MANUFACTURER'S FABRIC SPECIFICATIONS MUST BE AVAILABLE ON-SITE.

AOS (ASTM D-4751)30-100 SIEVE SIZE 90.024-0.006 IN.) FOR SILTFILM 50-100 SEIVE SIZE(0.012-0.006 IN.) FOR OTHER FABRICS.

WATER PERMITTIVITY (ASTM D-4491)=0.02 SEC ~! MIN.

GRAB TENSILE STRENGTH (ASTM D-4632) = 180 LBS MIN. FOR EXTRA STRENGTH FABRIC 100 LBS MIN. FOR STANDARD STRENGTH FABRIC.

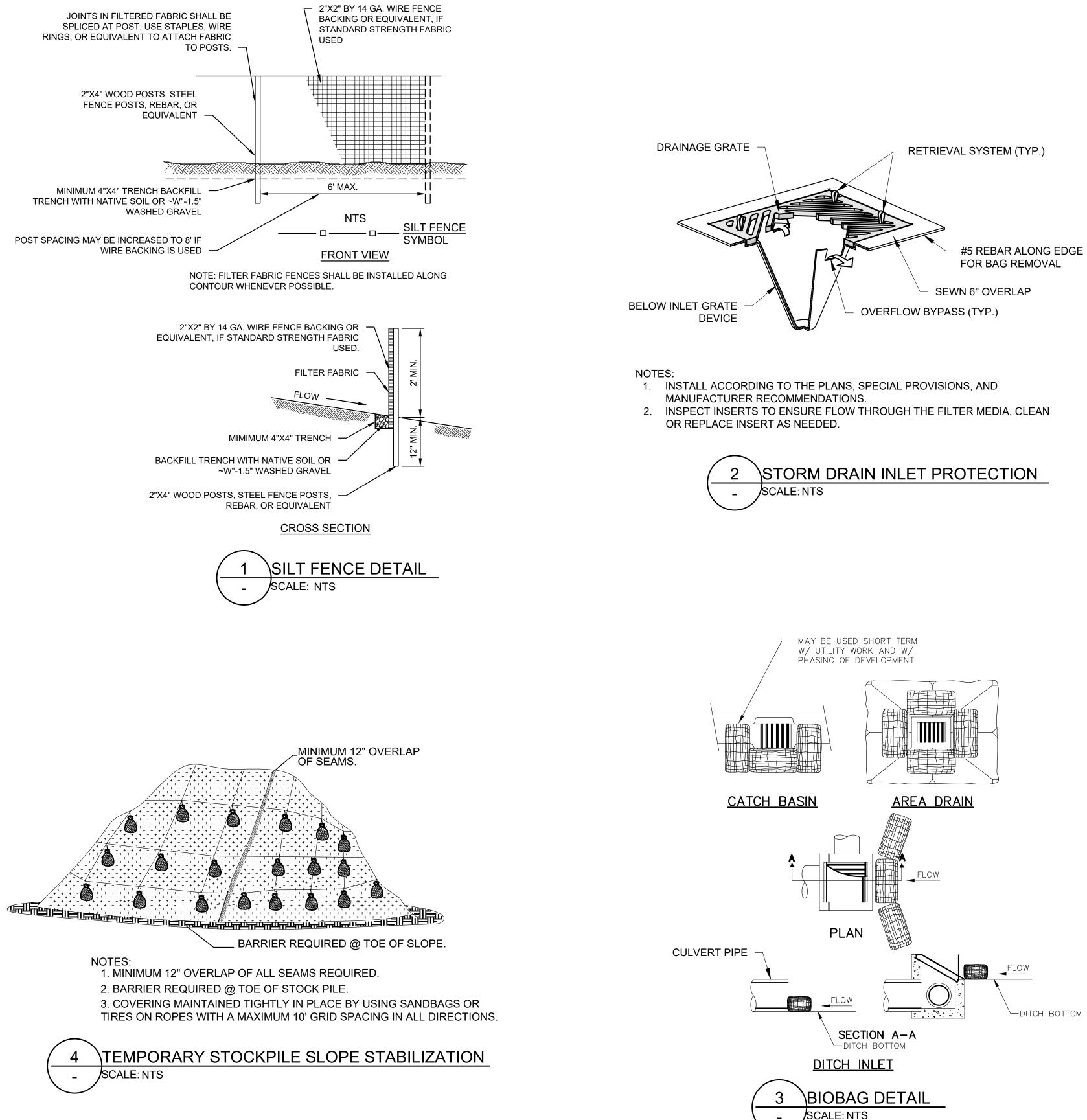
GRAB TENSILE ELONGATION (ASTM D-4632) = 30% MAX.

ULTRAVIOLET RESISTANCE (ASTM D-4355) = 70%.

- 3. STANDARD STRENGTH FABRIC REQUIRES WIRE BACKING TO INCREASE THE STRENGTH OF THE FENCE. WIRE BACKING OR CLOSER POST SPACING MAY BE REQUIRED FOR EXTRA STRENGTH FABRIC IF FIELD PERFORMANCE WARRENTS A STRONGER FENCE.
- 4. WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.

MAINTENANCE STANDARDS:

- 1. ANY DANAGE SHALL BE REPAIRED IMMEDIATELY.
- 2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- 3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACER THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- 4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- 5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.







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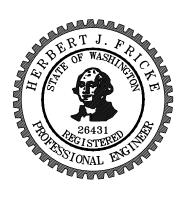
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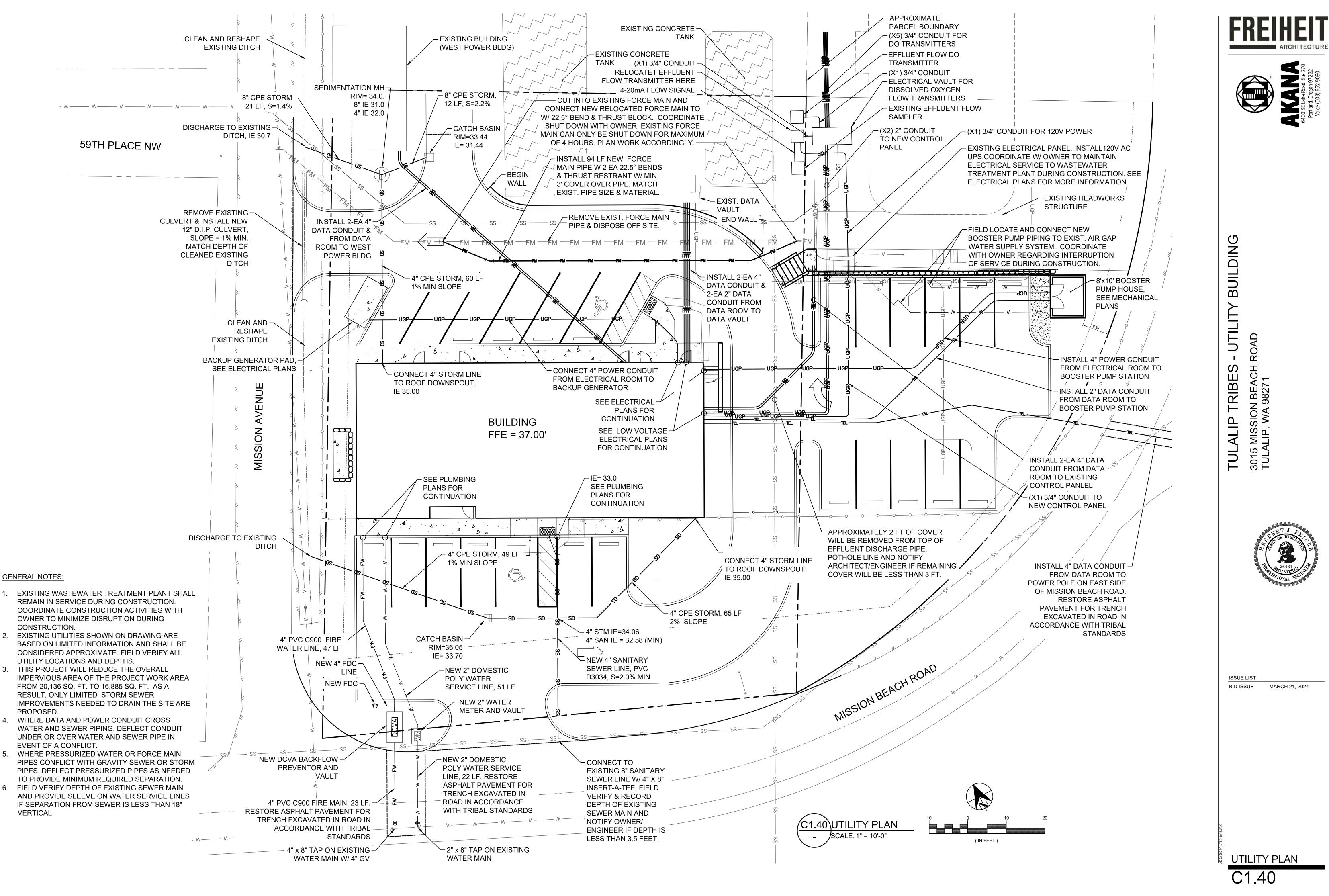


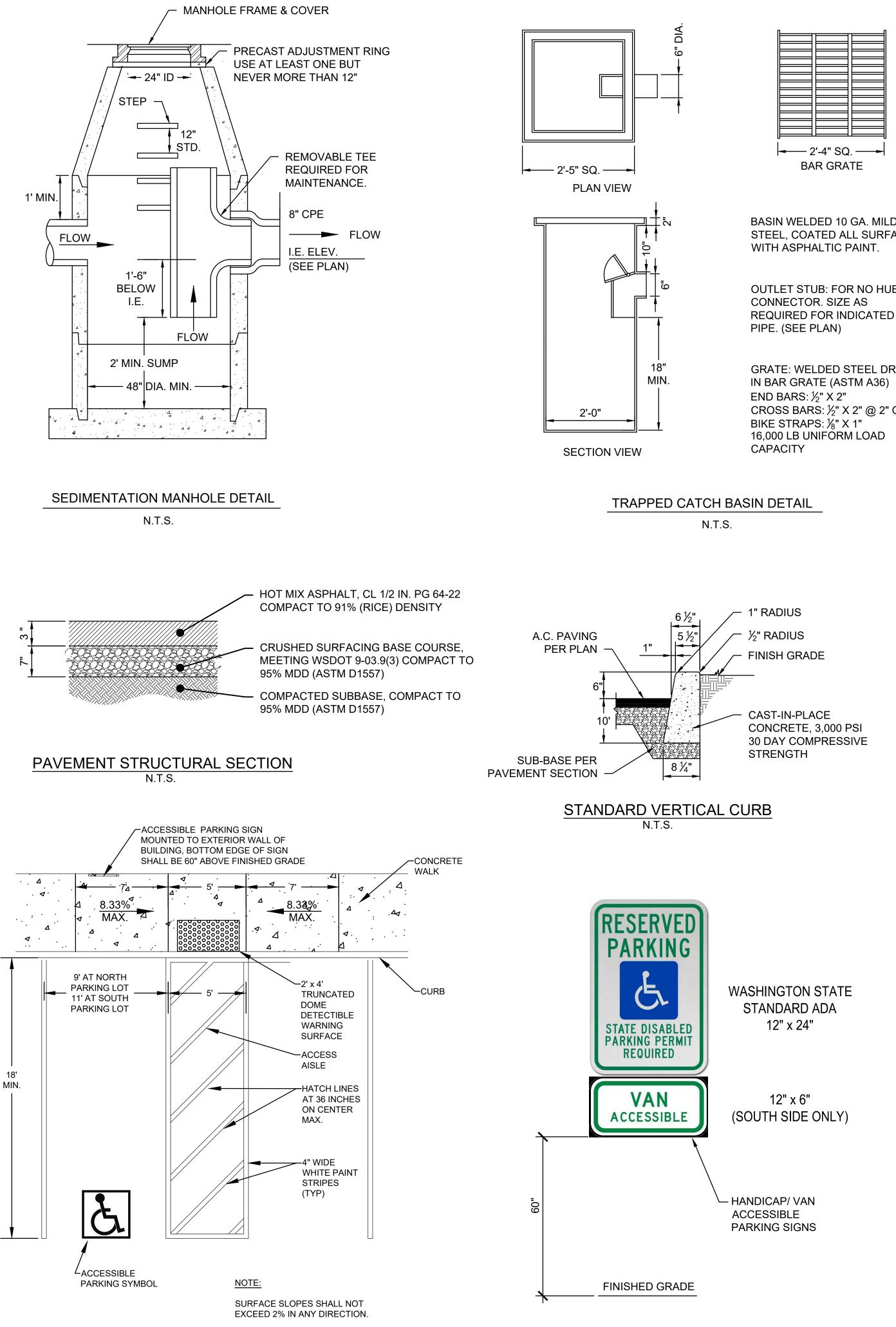
ISSUE LIST BID ISSUE

MARCH 21, 2024



EROSION AND





ACCESSIBLE PARKING SPACE MARKINGS N.T.S.

ACCESSIBLE PARKING SIGN

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Π			
		•	
		_	
 2	2'-4" SQ	. — •	
BAR GRATE			

BASIN WELDED 10 GA. MILD STEEL, COATED ALL SURFACES

OUTLET STUB: FOR NO HUB

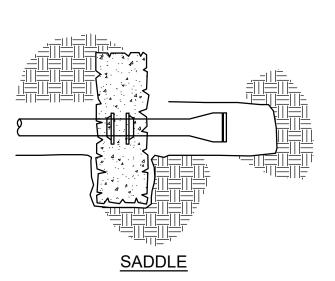
GRATE: WELDED STEEL DROP CROSS BARS: 1/2" X 2" @ 2" O/C

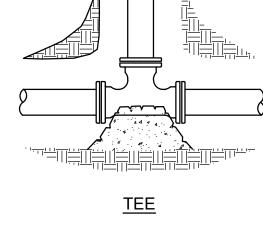
(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQ. FT.

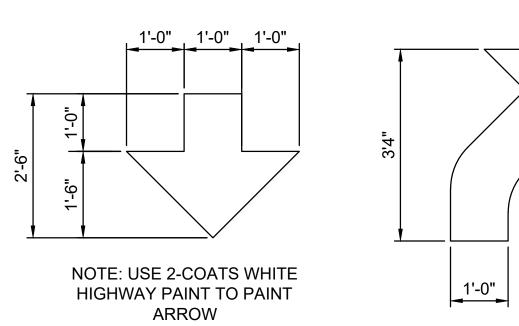
FITTING SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	1.8	1.0	1.0	1.0
6	2.8	4.0	2.2	1.1	1.0
8	5.0	7.1	3.8	2.0	1.0
12	11.3	16.0	8.7	4.4	2.2
16	20.1	28.4	15.4	7.8	3.9
20	31.1	44.4	24.0	12.3	6.2
24	45.2	64.0	34.6	17.7	8.9

VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.

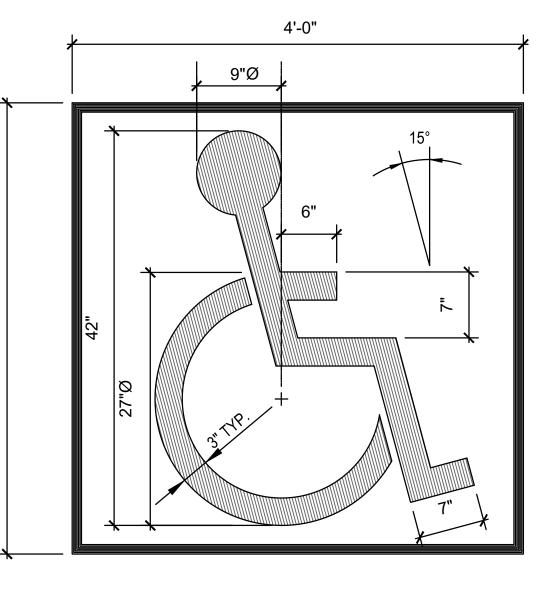
NOTES:







TRAFFIC ARROW N.T.S.



INTERNATIONAL SYMBOL OF ACCESSIBILITY NOTE:

1. USE WHITE PAINT FOR SYMBOL

ON BLUE PAINTED BACKGROUND

ACCESSIBLE PARKING SYMBOL N.T.S.

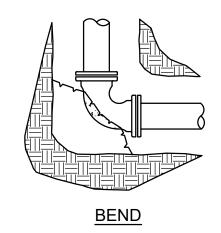
VOLUME OF THRUST BLOCK IN CU. YDS. (VERTICAL)

	``		,	
FITTING	BEND ANGLE			
SIZE	45°	22.5°	11.25°	
4	1.1	0.4	0.2	
6	2.7	1.0	0.4	
8	4.0	1.5	0.6	
12	8.5	3.2	1.3	
16	14.8	5.6	2.3	

1) THRUST BLOCKING AT ALL TEES, BENDS AND ENDS OF PIPING.

2) CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH. 3) ALL CONCRETE TO BE CLASS 3000. 4) INSTALL 12 MIL TOTAL THICKNESS POLYETHENE SHEET AROUND FITTING. SECURE SHEET ENDS TO PREVENT INFILTRATION OF DIRT BETWEEN SHEETS AND PIPE FITTING PRIOR TO POURING THRUST BLOCKING.

5) PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHENE SHEETING SEE NOTE 3.



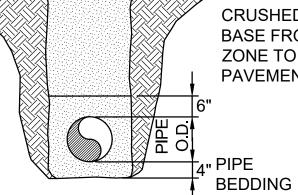
VERTICAL BEND

FITTING SIZE	ROD SIZE	EMBEDMENT
4"-12"	#6	30"
14"-16"	#8	36"

THRUST BLOCK DETAIL

N.T.S.





CRUSHED AGGREGATE BASE FROM TOP OF PIPE ZONE TO BOTTOM OF PAVEMENT

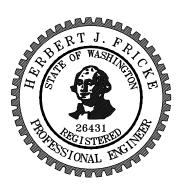
TRENCH BACKFILL ABOVE THE PIPE ZONE N.T.S.







SUILDING Ш UTILIT Õ Ř ACH S TRIBE SION BEA WA 9827 TULALIP 3015 MISS TULALIP,



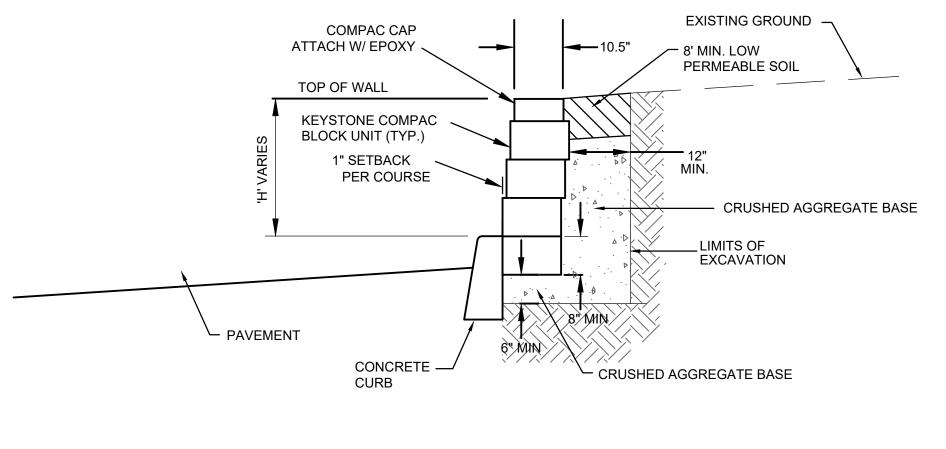
ISSUE LIST

BID ISSUE

DETAILS

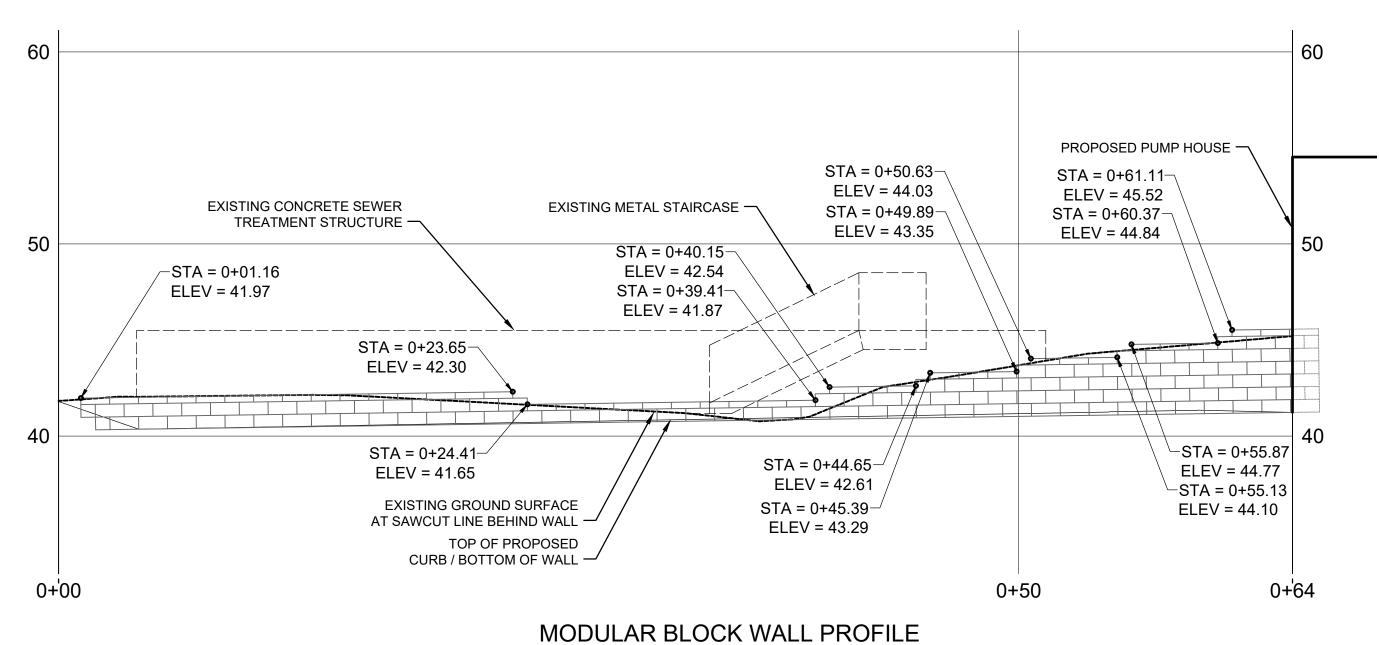
C2.00

MARCH 21, 2024

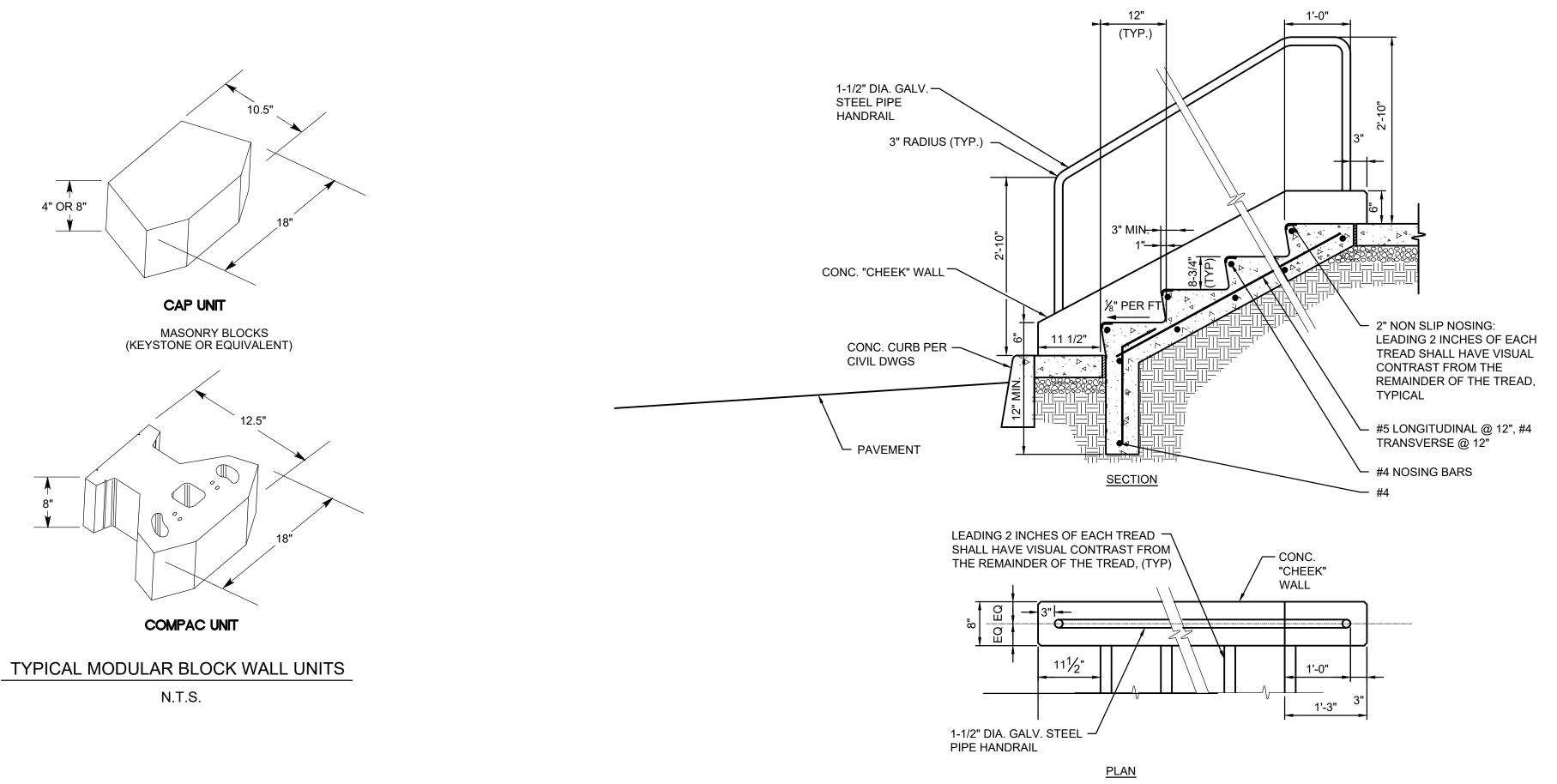








SCALE: 1" = 5' (HORIZ & VERT.)



EXTERIOR CONCRETE STAIRCASE DETAIL N.T.S.







 \succ UTILIT AD RO TULALIP TRIBES -3015 MISSION BEACH F TULALIP, WA 98271

BUILDING

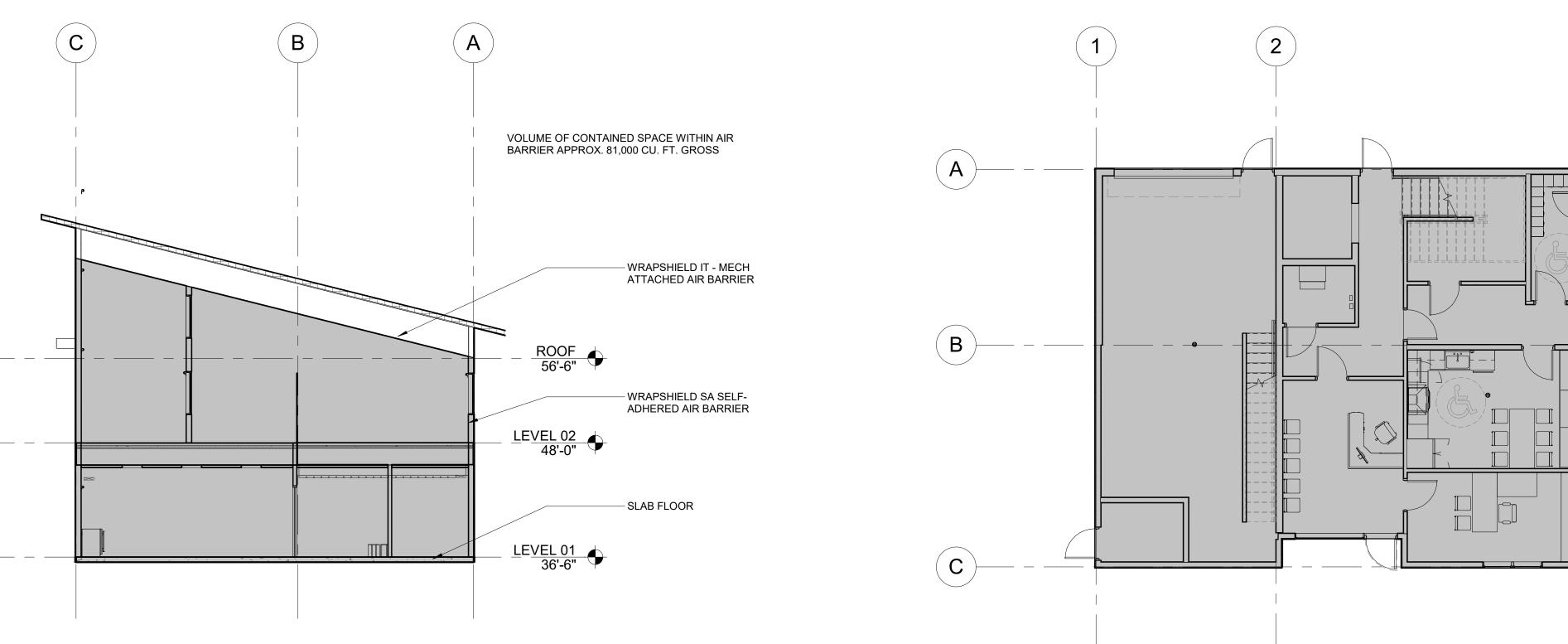


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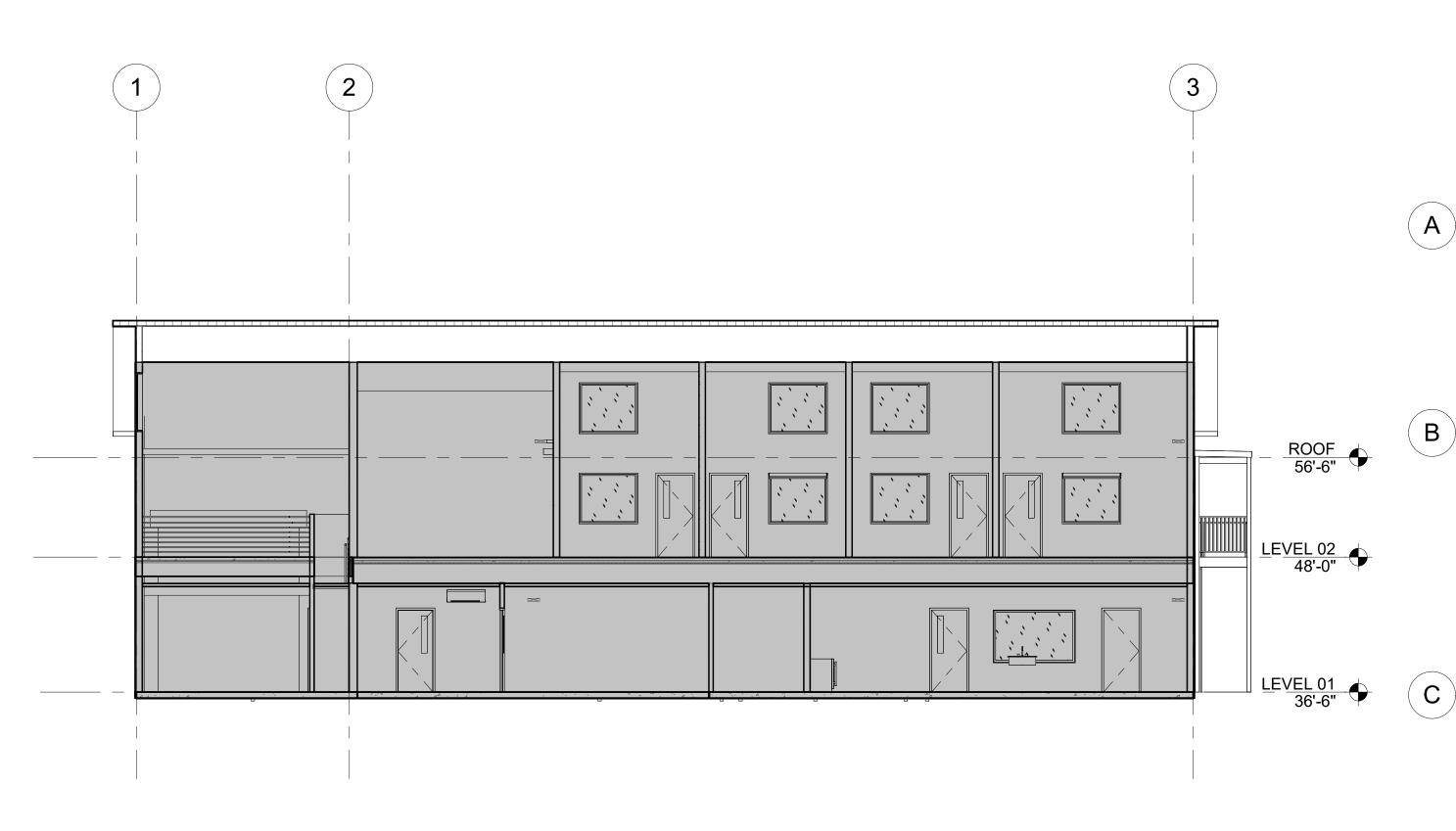
DETAILS

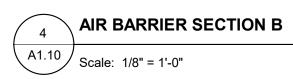
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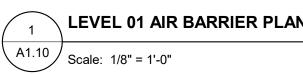
BID ISSUE MARCH 21, 2024

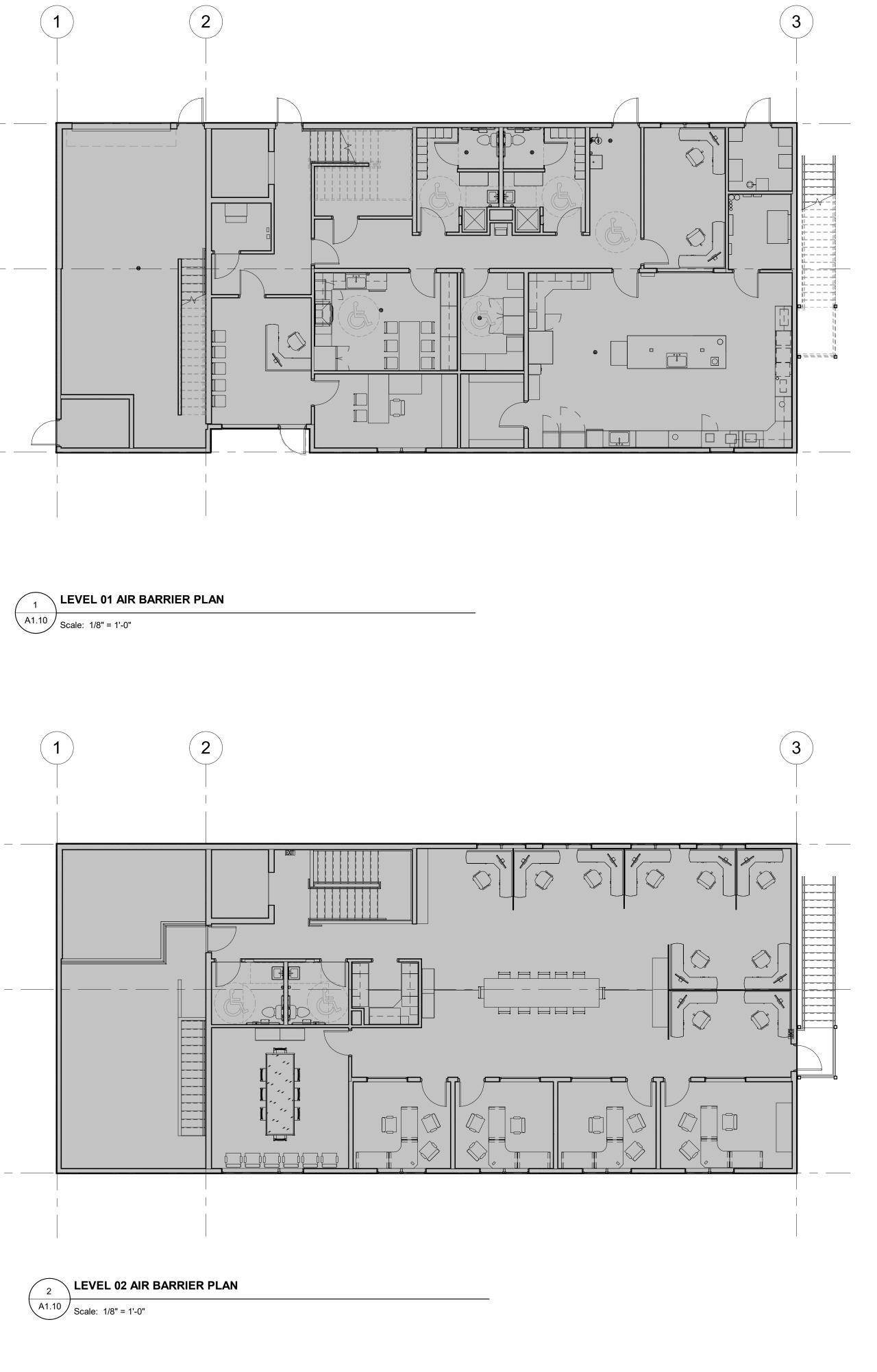
















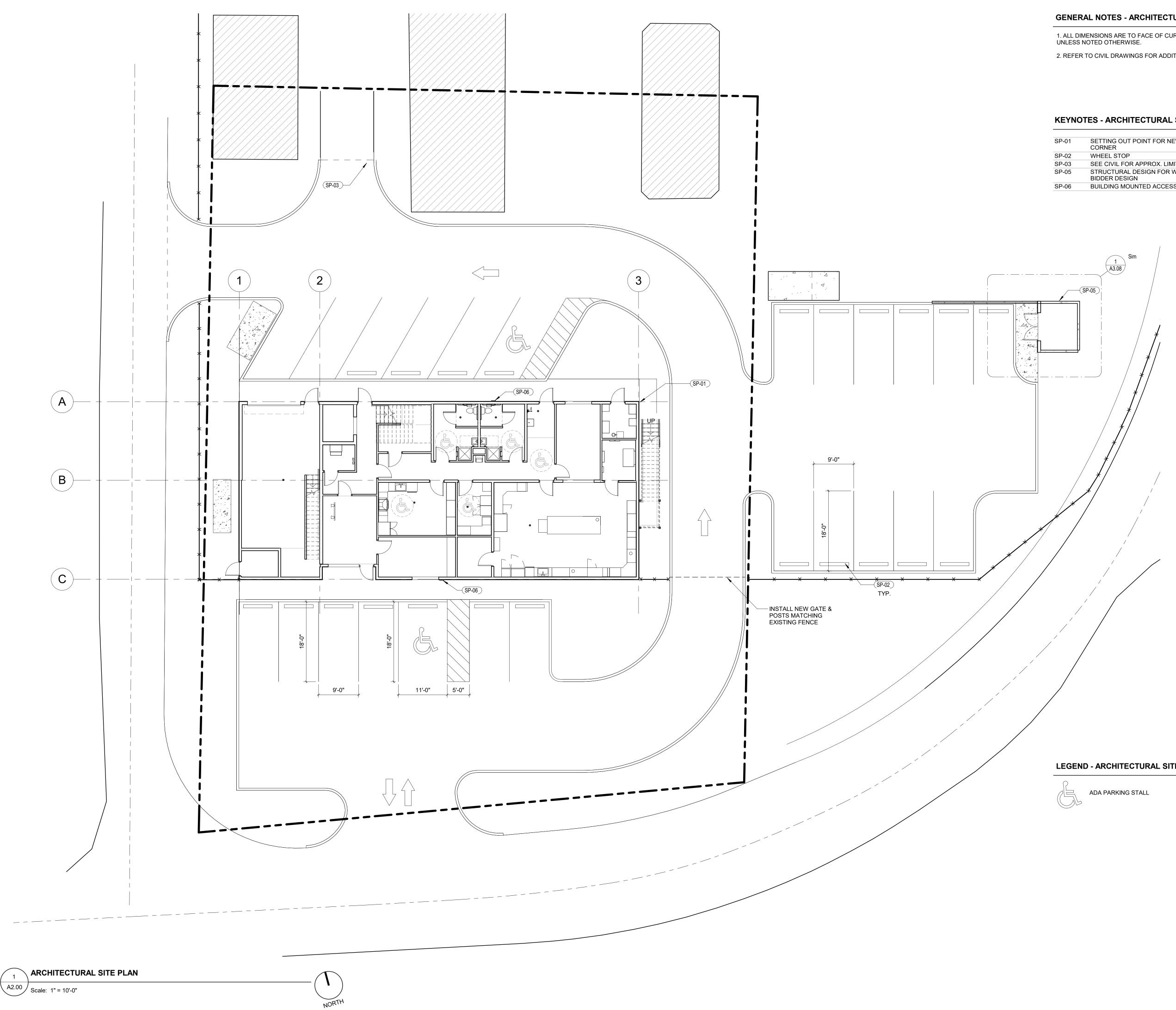
ISSUE LIST

BID ISSUE

AIR BARRIER

A1.10

PLAN & SECTION



1

GENERAL NOTES - ARCHITECTURAL SITE PLAN

1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING FOUNDATION WALL UNLESS NOTED OTHERWISE.

2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES - ARCHITECTURAL SITE PLAN

SP-01	SETTING OUT POINT FOR NEW CONSTRUCTION AT EXISTING BUILDING NORTHEAST CORNER
SP-02	WHEEL STOP
SP-03	SEE CIVIL FOR APPROX. LIMITS OF WORK
SP-05	STRUCTURAL DESIGN FOR WASHER SHED AND ASSOCIATED RETAINING WALLS TO BE BIDDER DESIGN
SP-06	BUILDING MOUNTED ACCESSIBLE PARKING SIGN

LEGEND - ARCHITECTURAL SITE PLAN

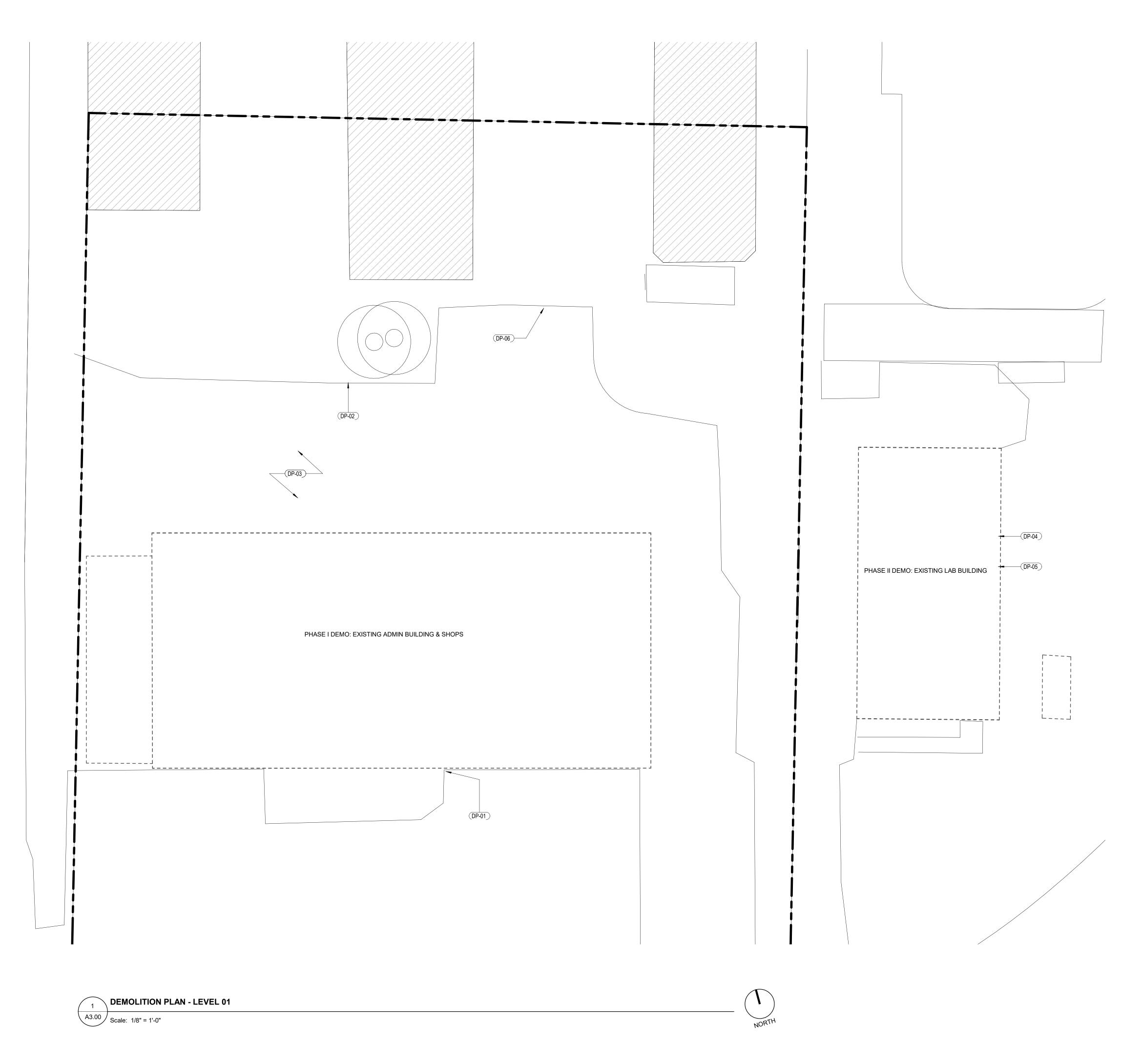
BUILDING UTILITY ROAD 1 3015 MISSION BEACH TULALIP, WA 98271 **TULALIP TRIBES**



ISSUE LIST **BID ISSUE**

ARCHITECTURAL SITE PLAN A2.00

NO WORK THIS AREA



GENERAL NOTES - DEMOLITION PLAN

1. PRIOR TO DEMOLITION, GENERAL CONTRACTOR TO VISIT THE SITE AND VERIFY EXTENT OF DEMOLITION ACTIVITIES REQUIRED FOR NEW CONSTRUCTION

2. REMOVE ALL DEBRIS AND GARBAGE PRIOR TO START OF CONSTRUCTION. REPAIR SUBSTRATES AS RQUIRED FOR NEW FINISHES

3. COORDINATE CONSTRUCTION SCHEDULE WITH ARCHITECT AND BUILDING OWNER TO MINIMIZE DISRUPTIONS TO BUSINESS HOUR OPERATIONS

4. THE CONTRACTOR SHALL ENSURE THAT THIS PROJECT AND ALL CONSTRUCTION ACTIVITIES RELATED THERETO CONFORM WITH ALL LOCAL, REGIONAL, STATE AND/OR FEDERAL REGULATIONS PERTAINING TO DISTURBING, DISPLACING, AND/OR REMOVAL OF ASBESTOS OR ASBESTOS CONTAINING MATERIALS. NOTE SPECIFICALLY THAT FOR PROJECTS IN WASHINGTON STATE, THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE PUGET SOUND AIR POLLUTION CONTROL AGENCY REGARDING INSPECTION, CERTIFICATION, AND NOTIFICATION

5. ALL SALVAGED ITEMS SHALL BE RETURNED TO BUILDING OWNER AT OWNER'S OPTION. ALL UNWANTED MATERIAL SHALL BE DISPOSED OF PROPERLY

6. DEMO ALL EXISTING SITE UTILITIES AS NECESSARY TO ACCOMMODATE NEW WORK

7. ALL DEMOLISHED AND UNUSED CABLE AND WIRING TO BE DEMOLISHED BACK TO SOURCE

KEYNOTES - DEMOLITION PLAN

DP-01	DEMOLISH EXISTING ADMIN & SHOP BUILDING, INCLUDING SLAB, FOOTINGS, AND UTILITIES, TO ACCOMMODATE NEW CONSTRUCTION
DP-02	CUT BACK SITE PAVING TO LIMITS ON CIVIL PLANS TO ACCOMMODATE NEW PAVING. EXCAVATE UNDERLAY AS NECESSARY TO ACCOMMODATE NEW BUILDING
DP-03	CUT BACK SITE UTILITIES TO EXTENT NECESSARY TO ACCOMMODATE NEW UTILITIES PER CIVIL PLANS
DP-04	DEMOLISH EXISTING LAB BUILDING ONCE NEW FACILITY IS OPERATIONAL. REMOVE SLAB, FOOTINGS AND UTILITIES AS NECESSARY TO ACCOMMODATE NEW PARKING LOT CONSTRUCTION.
DP-05	COORDINATE SALVAGE, RELOCATION OR CONTINUED OPERATION OF CONTROL OR OTHER SYSTEMS WITH OWNER
DP-06	SEE CIVIL FOR APPROX. LIMITS OF WORK

LEGEND - DEMOLITION PLAN

NO WORK THIS AREA
EXISTING CONSTRUCTION / ELEMENT TO REMAIN
EXISTING CONSTRUCTION / ELEMENT TO BE REMOVED

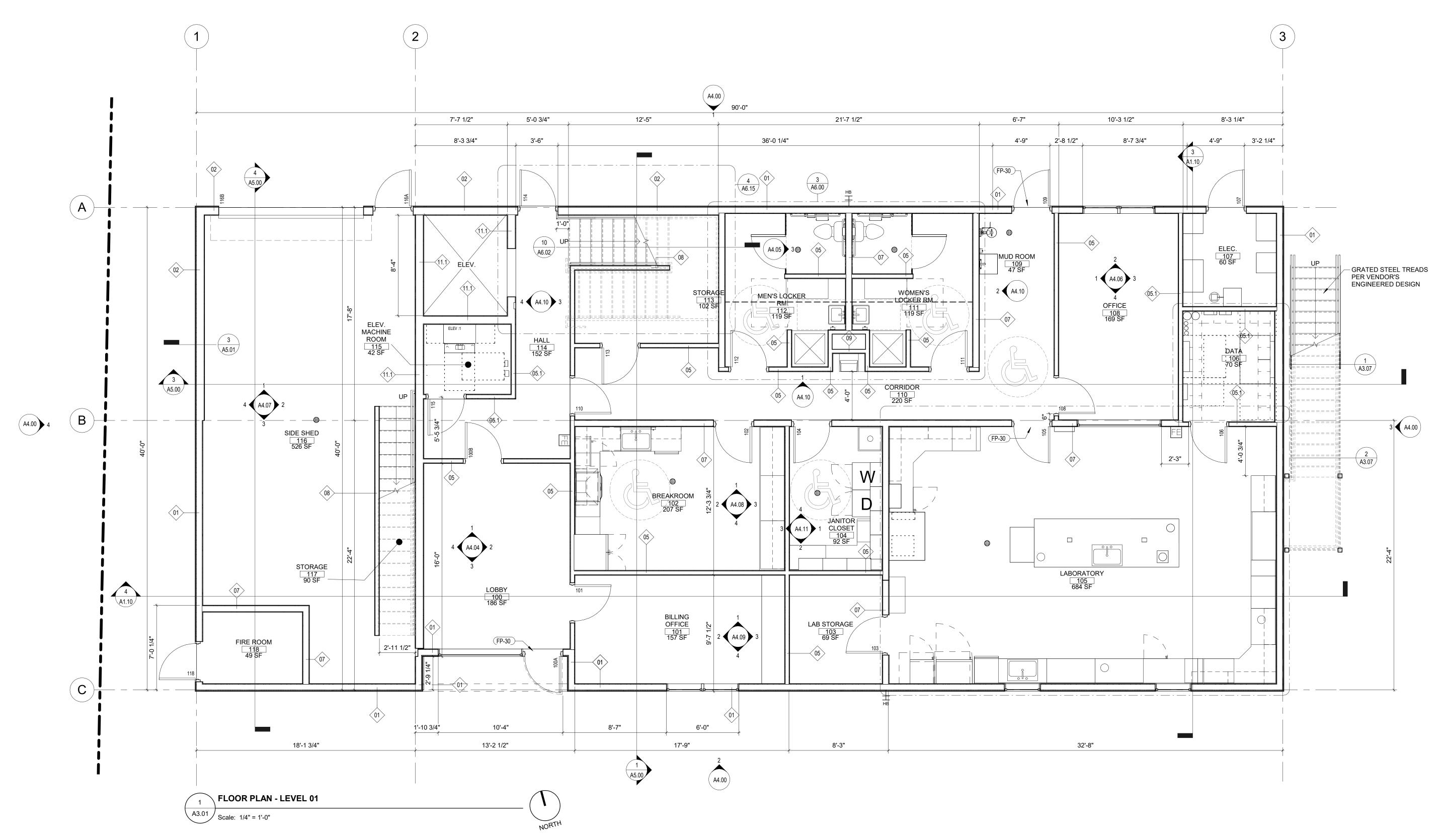
FREIHEIT ARCHITECTURE

TULALIP TRIBES - UTILITY BUILDIN 3015 MISSION BEACH ROAD TULALIP, WA 98271

C

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DEMOLITION PLAN



GENERAL NOTES - FLOOR PLAN

1. USE GREENBOARD IN ALL WET ROOMS: MUD ROM, LOCKER ROOMS, LAB, RESTROOMS, BREAK ROOM, JANITOR CLOSET, BACK CORRIDOR.
2. USE ACOUSTICAL BATT INSULATION AT ALL MECHANICAL, SHAFT, MACHINE ROOM ENCLOSURES, AND AT RESTROOMS.
3. USE THERMAL INSULATION AT ALL EXTERIOR WALLS, AND AT INTERIOR WALLS DIVIDING SHED FROM REST OF BUILDING.
4. WALL TYPES SHOWN WITH INTERIOR GWB SURFACE. FOR ADDITIONAL FINISH MATERIALS SEE INTERIOR ELEVATIONS.
5. SEE EXTERIOR ELEVATIONS FOR FINISH SIDING TYPES.
6. ELEVATOR SHAFT CONSTRUCTION PROVIDES 1 HOUR RATING.
7. DOORS TO BE INSTALLED WITH 4 INCH CLEARANCE FROM WALL. (UNO)

WALL SCHEDULE

01	MTL SD - 3/4" FURR - SHEATH - 6" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
02	MTL SD - 3/4" FURR - SHEATH - 8" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
05	5/8" GWB - 4" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	1-HR RATING PER PER SBC TABLE 720.1 ITEM NUMBER 4-1
07	5/8" GWB - 6" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
08	5/8" GWB - 4" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
09	5/8" GWB - 4" WD STUD	TO UNDERSIDE OF STRUCTURE	NON-RATED
12	5/8" GWB - 8" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
20	6" CONCRETE	FULL HEIGHT	NON-RATED

BUILDING UTILITY ROAD 1.1 TRIBES 3015 MISSION BEACH TULALIP, WA 98271 TULALIP

FREIHEIT

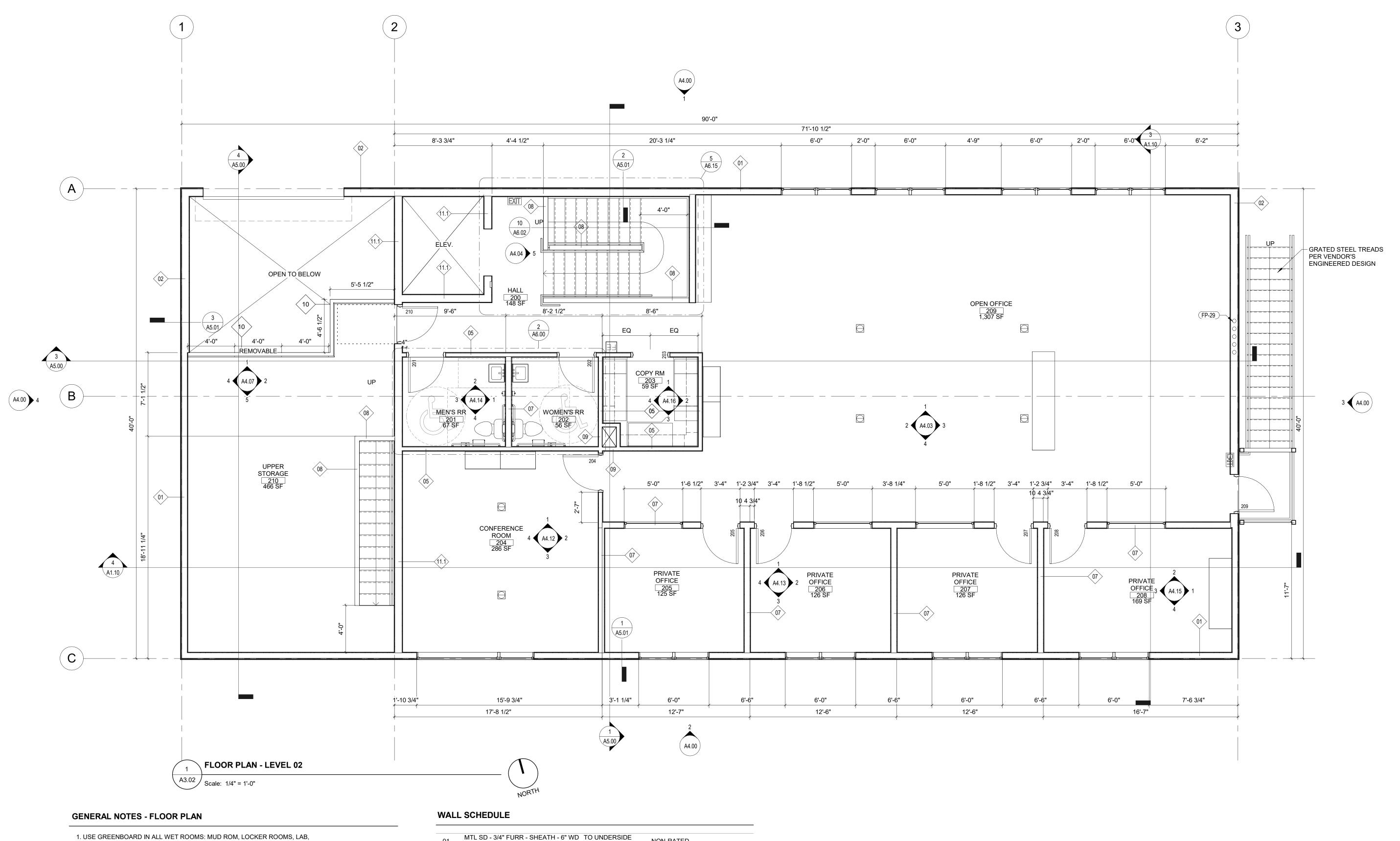
ARCHITECTURE



ISSUE LIST **BID ISSUE**

FLOOR PLAN

A3.01



 1. USE GREENBOARD IN ALL WET ROOMS: MUD ROM, LOCKER ROOMS, LAB, RESTROOMS, BREAK ROOM, JANITOR CLOSET, BACK CORRIDOR.
2. USE ACOUSTICAL BATT INSULATION AT ALL MECHANICAL, SHAFT, MACHINE ROOM ENCLOSURES, AND AT RESTROOMS.
3. USE THERMAL INSULATION AT ALL EXTERIOR WALLS, AND AT INTERIOR WALLS DIVIDING SHED FROM REST OF BUILDING.
4. WALL TYPES SHOWN WITH INTERIOR GWB SURFACE. FOR ADDITIONAL FINISH MATERIALS SEE INTERIOR ELEVATIONS.

5. SEE EXTERIOR ELEVATIONS FOR FINISH SIDING TYPES. 6. ELEVATOR SHAFT CONSTRUCTION PROVIDES 1 HOUR RATING.

7. DOORS TO BE INSTALLED WITH 4 INCH CLEARANCE FROM WALL. (UNO)

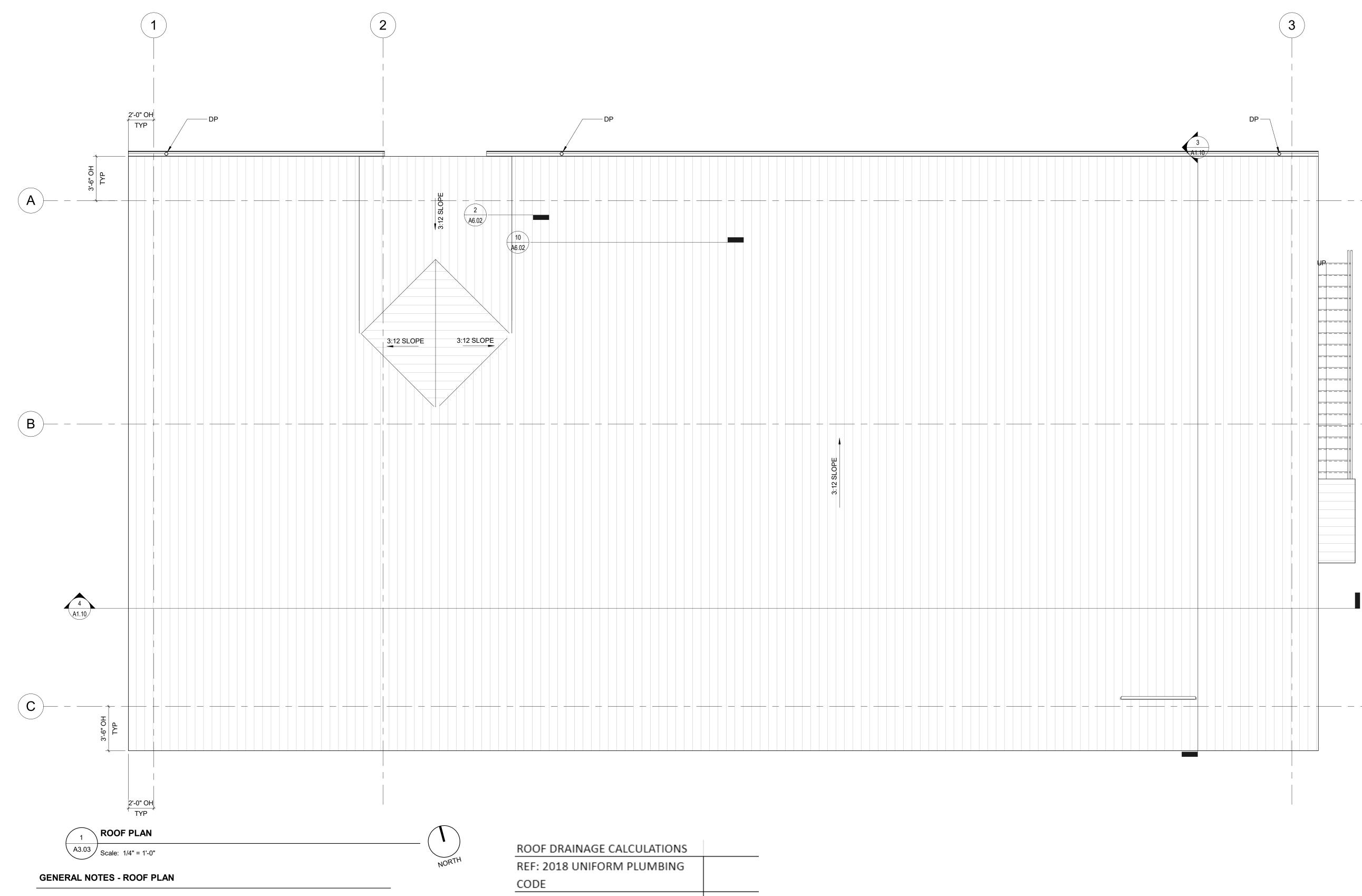
01	MTL SD - 3/4" FURR - SHEATH - 6" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
02	MTL SD - 3/4" FURR - SHEATH - 8" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
05	5/8" GWB - 4" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	1-HR RATING PER PER SBC TABLE 720.1 ITEM NUMBER 4-1
07	5/8" GWB - 6" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
08	5/8" GWB - 4" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
09	5/8" GWB - 4" WD STUD	TO UNDERSIDE OF STRUCTURE	NON-RATED
12	5/8" GWB - 8" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
20	6" CONCRETE	FULL HEIGHT	NON-RATED

UTILITY BUILDING ROAD 1 3015 MISSION BEACH TULALIP, WA 98271 **TULALIP TRIBES**

FLOOR PLAN LEVEL 2 A3.02

ISSUE LIST **BID ISSUE**





1. HVAC EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. COORDINATE FINAL LOCATIONS AND SIZES WITH FINAL LAYOUT, ARCHITECT, AND MECHANICAL ENGINEER.

2. VERIFY SIZE, QUANTITY, AND LOCATION OF ALL TOILET EXHAUST FANS.

3. SEE DETAILS FOR TYPICAL PIPE PENETRATION DETAILS.

4. SEE DETAILS FOR TYPICAL FLASHING DETAILS.

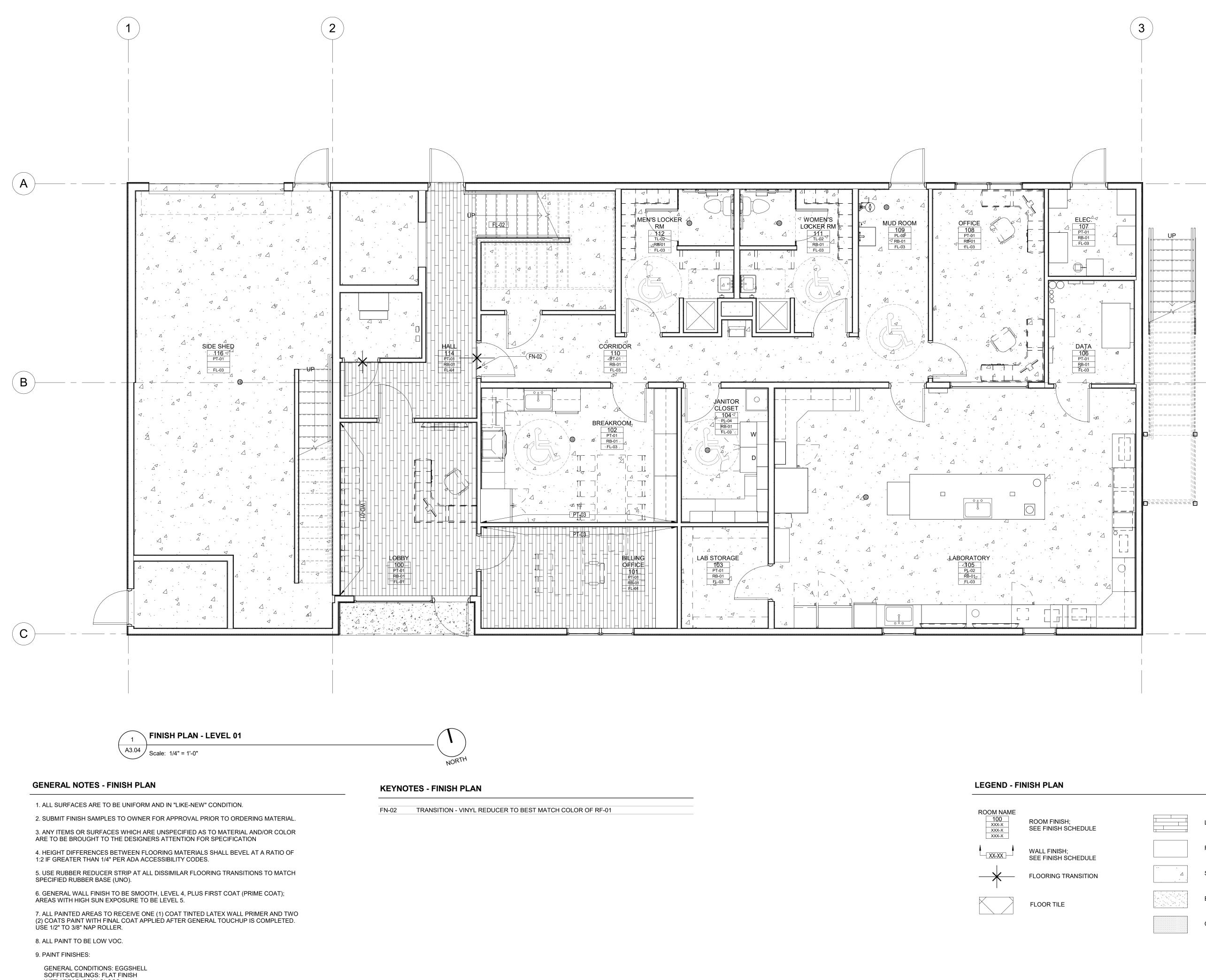
ROOF DRAINAGE CALCULATIONS	
REF: 2018 UNIFORM PLUMBING	
CODE	
RAINFALL: 1-HR DURATION, 100	
YEAR OCCURANCE, PER IPC	1/4" /
APPENDIX B:	HR.
TOTAL ROOF AREA:	4,418 SF
NUMBER OF DRAINS:	3
AREA PER DRAIN:	1,473 SF
GPM PER DRAIN:	92
DRAIN SIZE PER TABLE 1106.3	3" DIA.



TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271

> ISSUE LIST BID ISSUE

ROOF PLAN



WET AREAS: SEMI-GLOSS PAINT GRADE DOORS & TRIM: SEMI-GLOSS LATEX ENAMEL

10. SEE ENLARGED PLAN FOR LAB LAYOUT.

- LVT PLANK FLOORING
- RUBBER SHEET FLOORING

SEALED CONCRETE

EPOXY FLOORING

CARPET TILE FLOORING



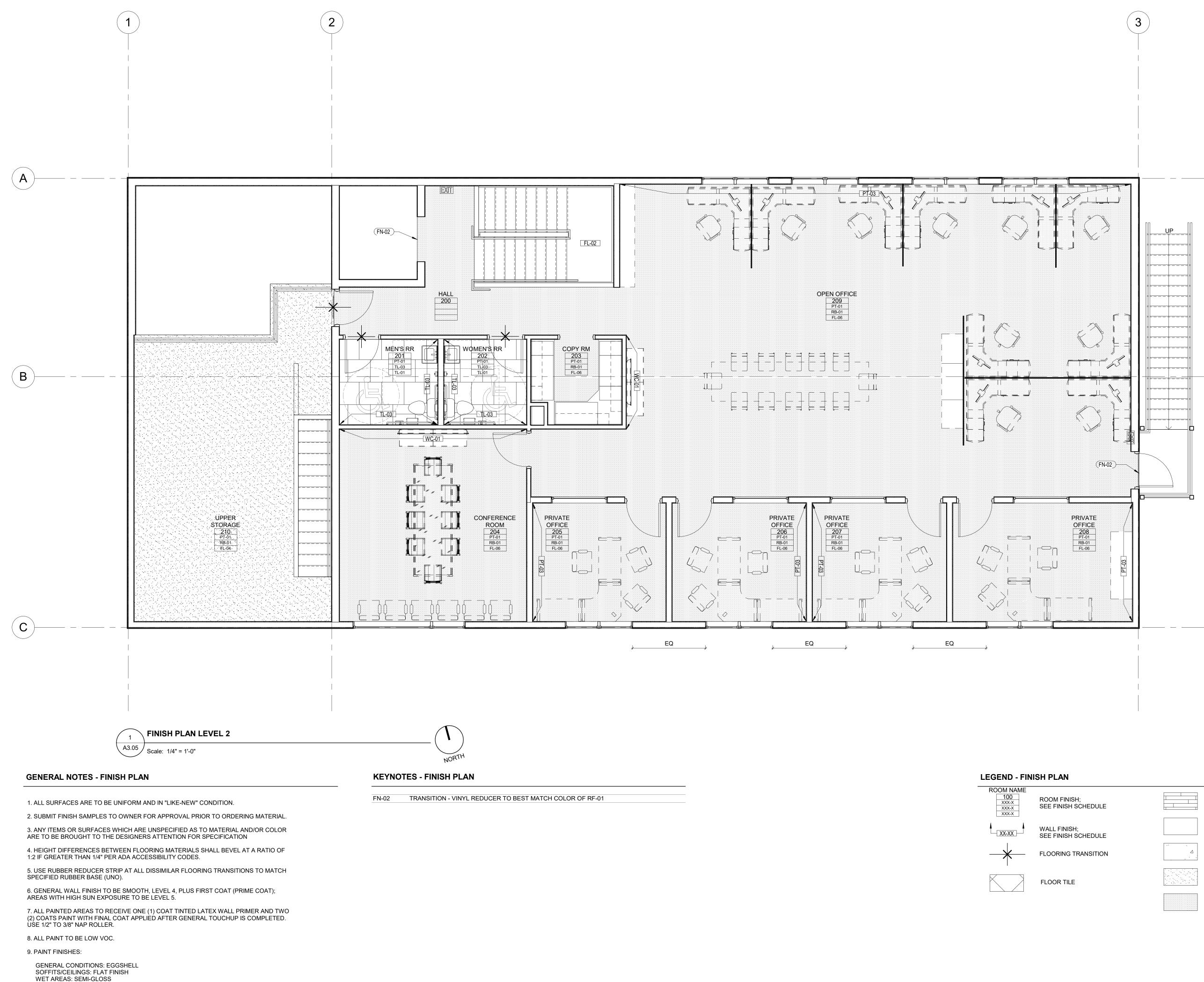
BUILDING UTILITY ROAD 1 SION BEACH I WA 98271 TRIBES TULALIP 3015 MISSI TULALIP, W

ISSUE LIST BID ISSUE

FINISH PLAN

LEVEL 1

A3.04



PAINT GRADE DOORS & TRIM: SEMI-GLOSS LATEX ENAMEL

10. SEE ENLARGED PLAN FOR LAB LAYOUT.

- LVT PLANK FLOORING
- RUBBER SHEET FLOORING

SEALED CONCRETE

- EPOXY FLOORING
- CARPET TILE FLOORING

FREIHEIT **ARCHITECTURE**

UTILITY BUILDING ROAD 1 3015 MISSION BEACH TULALIP, WA 98271 **TULALIP TRIBES**

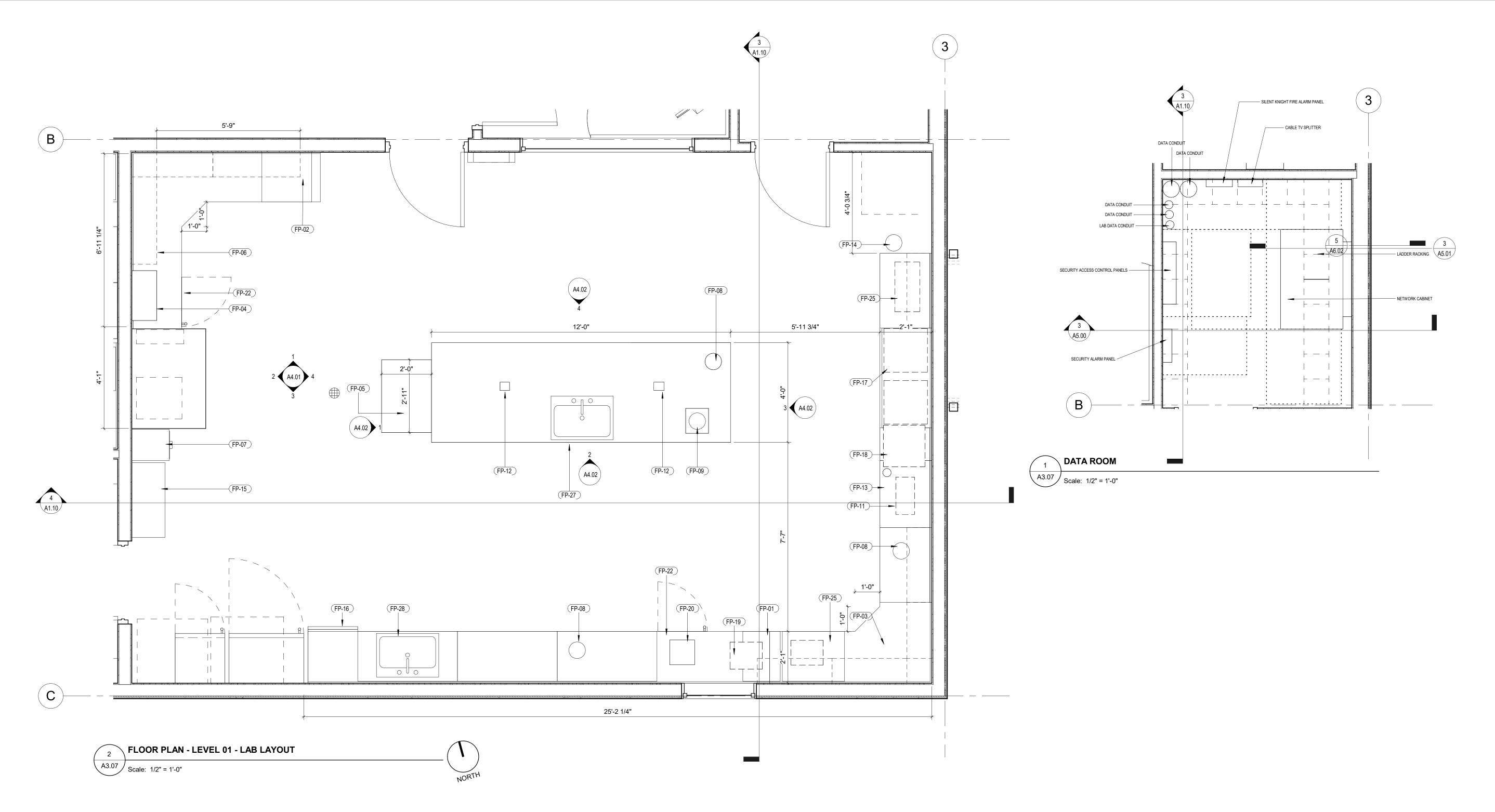
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FINISH PLAN

LEVEL 2

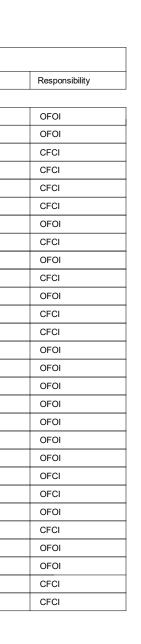
A3.05



LAB EQUIPMENT SCHEDULE

						LAB EQUIPMENT S	CHEDULE		
Mark	Description	Manufacturer	Model	Depth	Width	Height	Electrical	Mechanical	Comments
FP-01	2 DRAWER LEGAL FILE CABINET	VERIFY	VERIFY	18"	15"	34"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-02	LOCKABLE CABINETRY - UPPER AND LOWER	VERIFY	VERIFY	24"	24"	34 1/2"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-03	STAINLES STEEL COUNTER W/ 6" BACKSPLASH. PROVIDED RAISED LEDGE, ALL SIDES, TYPICAL AT UPPER COUNTERS	VERIFY	VERIFY	24"	VARIES	VARIES	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-04	FILE ORGANIZER WALL MOUNTED	VERIFY	VERIFY	12"	24"	30"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-05	SCALE STATION	VERIFY	VERIFY	12"	24"	-	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-06	UPPER CABINET WITH UNDER CABINET LIGHTING, TYPICAL	VERIFY	VERIFY	12"	42"	30"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-07	4 DRAWER LEGAL FILE CABINET	VERIFY	VERIFY	18"	15"	52"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-08	TRASH HOLE WITH FLUSH EPOXY CENTER	VERIFY	VERIFY	8" DIA.	8" DIA.	-	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-09	MICROSCOPE, ADJUSTABLE BASE	VERIFY	VERIFY	11"	12"	-	VERIFY	VERIFY	PROVIDED POWER AND DATA AT ISLAND. VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-10	(2) WALL MOUNTED TV MONITORS	VERIFY	VERIFY	4.5"	43.5"	24.5"	VERIFY	VERIFY	50" DIAGONAL. VERIFY PRODUCT AND REQUIREMENTS
FP-11	STILL	THERMO SCIENTIFIC	MP-1	9 3/4"	18"	34"	120V / 9A	SEE PRODUCT REQUIREMENTS	SEE PLUMBING FOR ADJACENT WATER SUPPLY AND DRAIN LOCATIONS
FP-12	SURFACE MOUNTED POWER OUTLETS SET ON 1/2" EPOXY BLOCKS TO MATCH OUTLET FOOTPRINT	VERIFY	VERIFY	4.5"	5"	-	VERIFY	VERIFY	TYPICAL AT ISLANDS. SEE ELECTRICAL, VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-13	CUP SINK	VERIFY	VERIFY	4"	4"	-	VERIFY	VERIFY	SEE PLUMBING. VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-14	DESSICATOR	NALGENE	38090	-	-	-	NA	NA	FITS 230 mm DESICATOR PLATE
FP-15	FULL HEIGHT GLASSWARE STORAGE	VERIFY	VERIFY	16"	36"	84"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-16	GLASSWARE DISHWASHER	LABCONCO	STEAMSCRUBBER 4400330	27.4"	24.1"	34.1" - 36.1" ADJUSTABLE	115VAC, 60HZ, 16A	HOT AND PURIFIED WATER	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-17	(2) TSS LAB OVEN	THERMO SCIENTIFIC	HERATHERM 51028112	22 1/4"	21"	28 1/2"	120V / 60HZ / 14.4A	NA	VERIFY PRODUCT AND REQUIREMENTS
FP-18	AUTOCLAVE	TUTTNAUER	2340M	20"	20"	15"	120V / 60HZ	NA	5 GALLON, VERIFY REQUIREMENTS
FP-19	FECAL COLIFORM BATH	PRECISION	TSCOL19	12"	15 1/2"	7 3/4"	15/230VAC, 50/60HZ	NA	VERIFY PRODUCT AND REQUIREMENTS
FP-20	TURBIDIMETER	HACH	2100N (TL23)	-	-	-	VERIFY	NA	VERIFY PRODUCT
FP-21	INCUBATOR REFRIGERATOR	PRECISION	815 BOD	31"	34"	77"	800W, 6.2A, 115VAC, 60HZ	NA	VERIFY ANY REQUIRED DATA CONNECTIONS
FP-22	LAB REFRIGERATOR	VERIFY	VERIFY	32"	35"	70"	VERIFY	VERIFY	VERIFY SIZE AND CONNECTIONS
FP-23	AED CABINET	VERIFY	VERIFY	5"	22 3/4"	22 3/4"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS
FP-24	FUME HOOD	LOC SCIENTIFIC	HP-604	35"	48"	89 1/4"	VERIFY	VERIFY	VERIFY PRODUCT AND REQUIREMENTS, SEE MECHANICAL
FP-25	VACUUM PUMP	WELCH	92114	-	-	-	115VAC	NA	-
FP-26	MUFFLE FURNACE	-	-	-	-	-	VERIFY	VERIFY	VERIFY PRODUCTS AND REQUIREMENTS
FP-27	ISLAND SINK. FOOT PEDALS TO CONTROL	VERIFY	VERIFY	21"	30"	48" COUNTER HEIGHT	NA	VERIFY (HOT AND PURIFIED WATER)	•
FP-28	SINK	VERIFY	VERIFY	21"	30"	48" COUNTER HEIGHT	NA	VERIFY (HOT AND PURIFIED WATER)	· ·



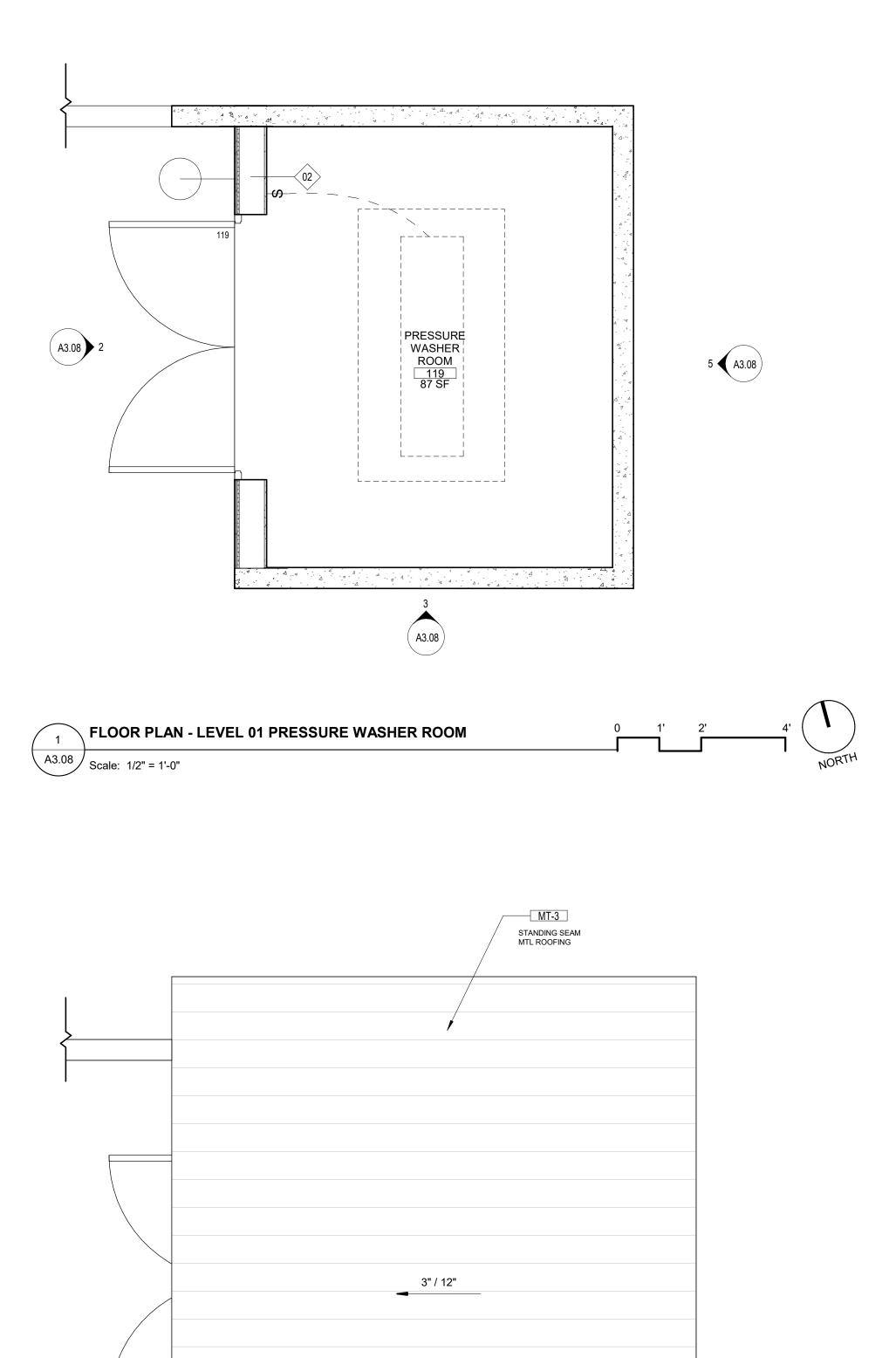


TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271

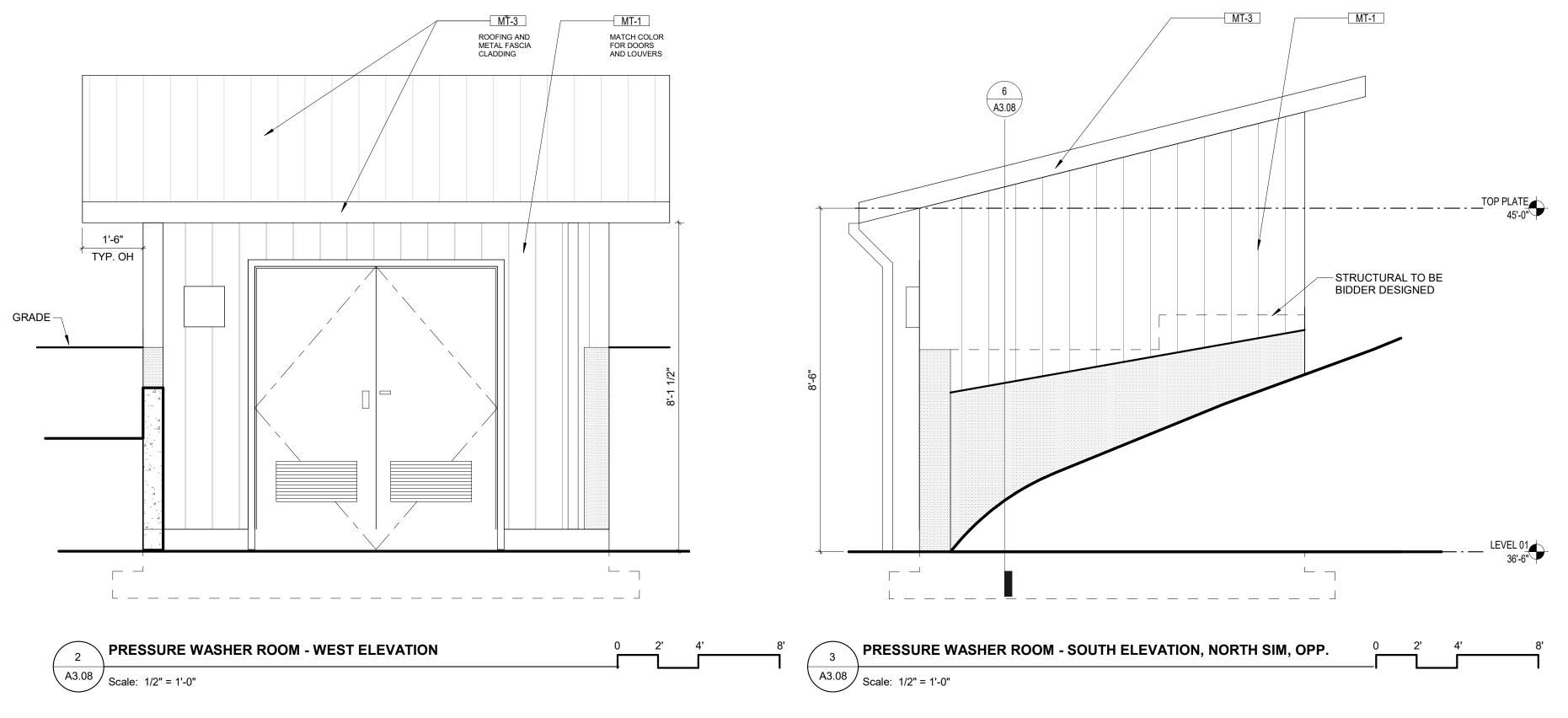
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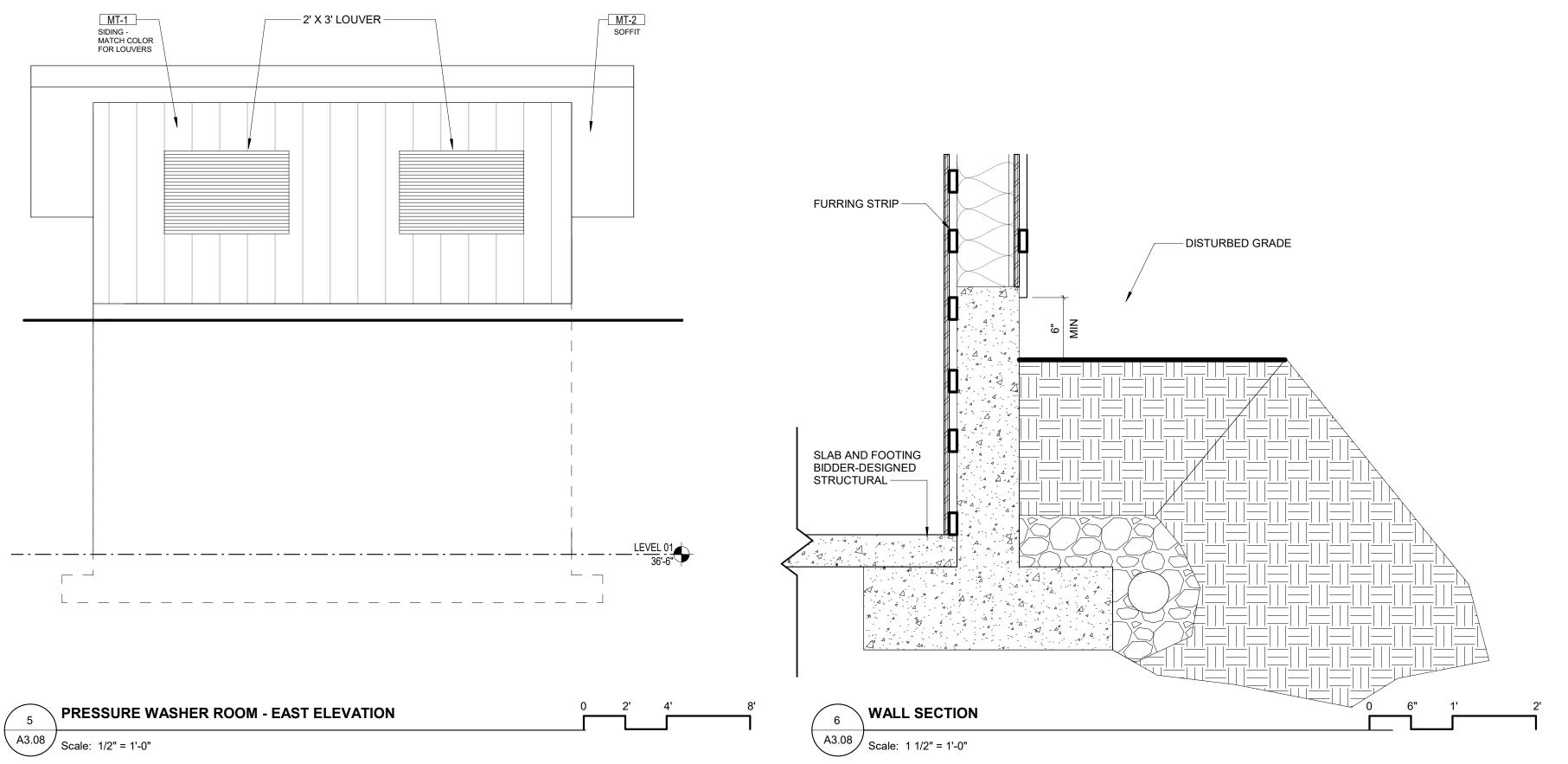
ENLARGED PLANS

A3.07



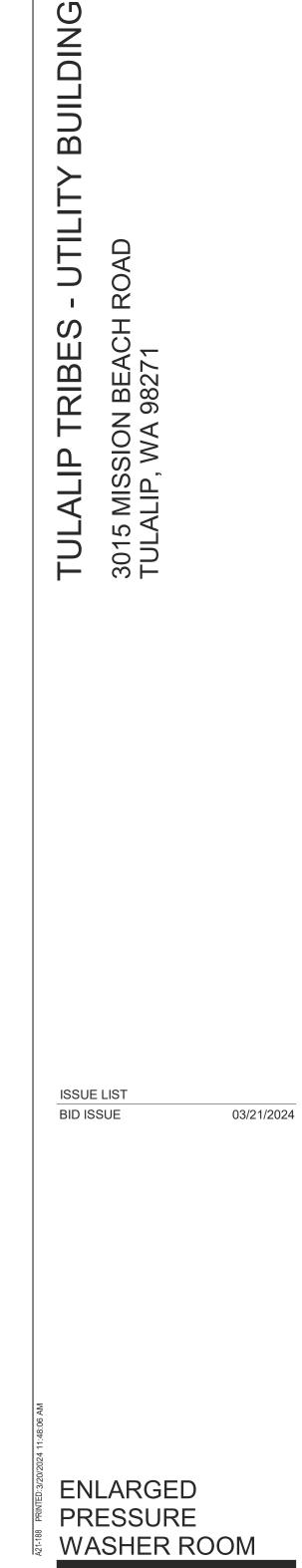
4 A3.08 Scale: 1/2" = 1'-0" 0 1' 2' NORTH

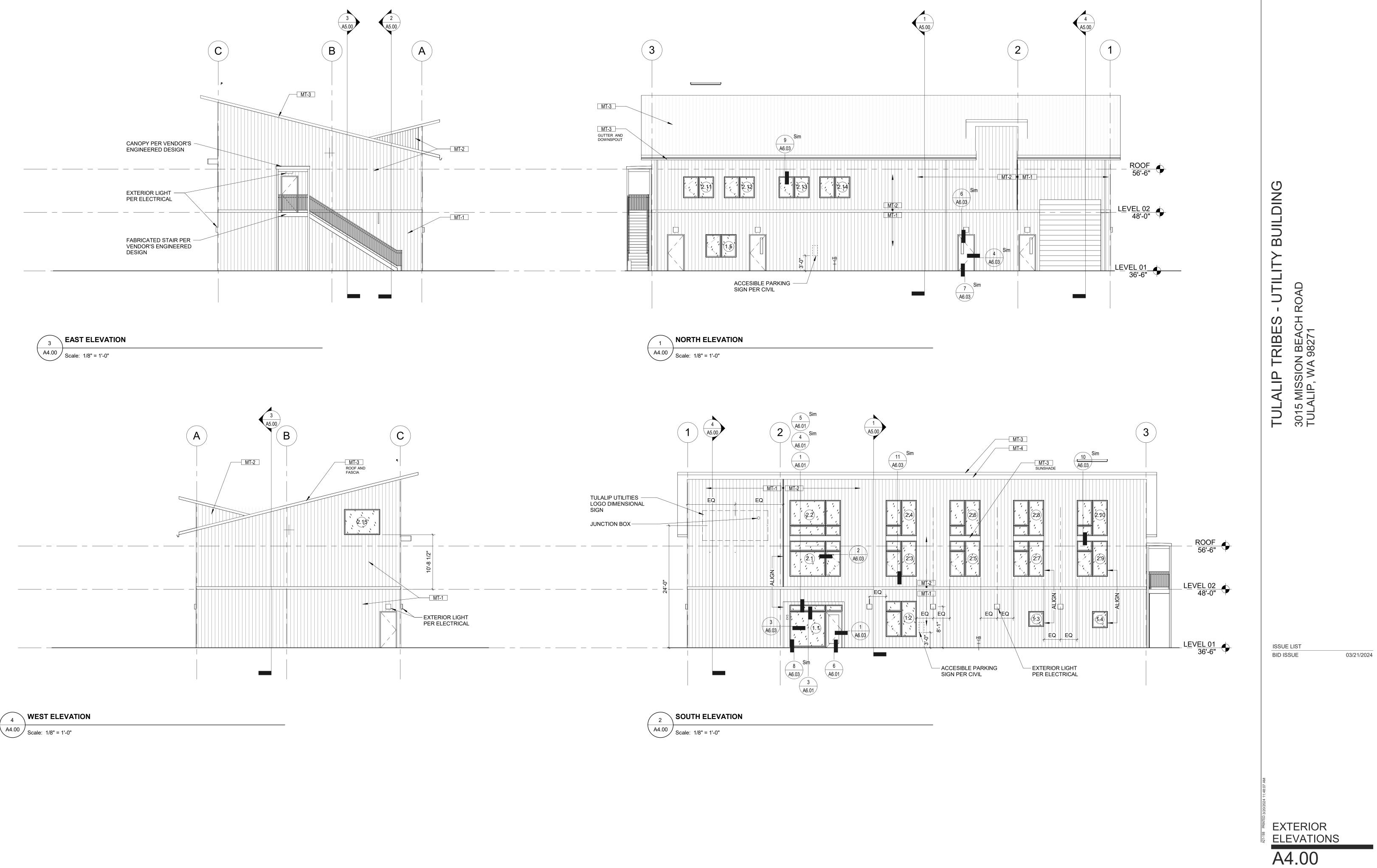






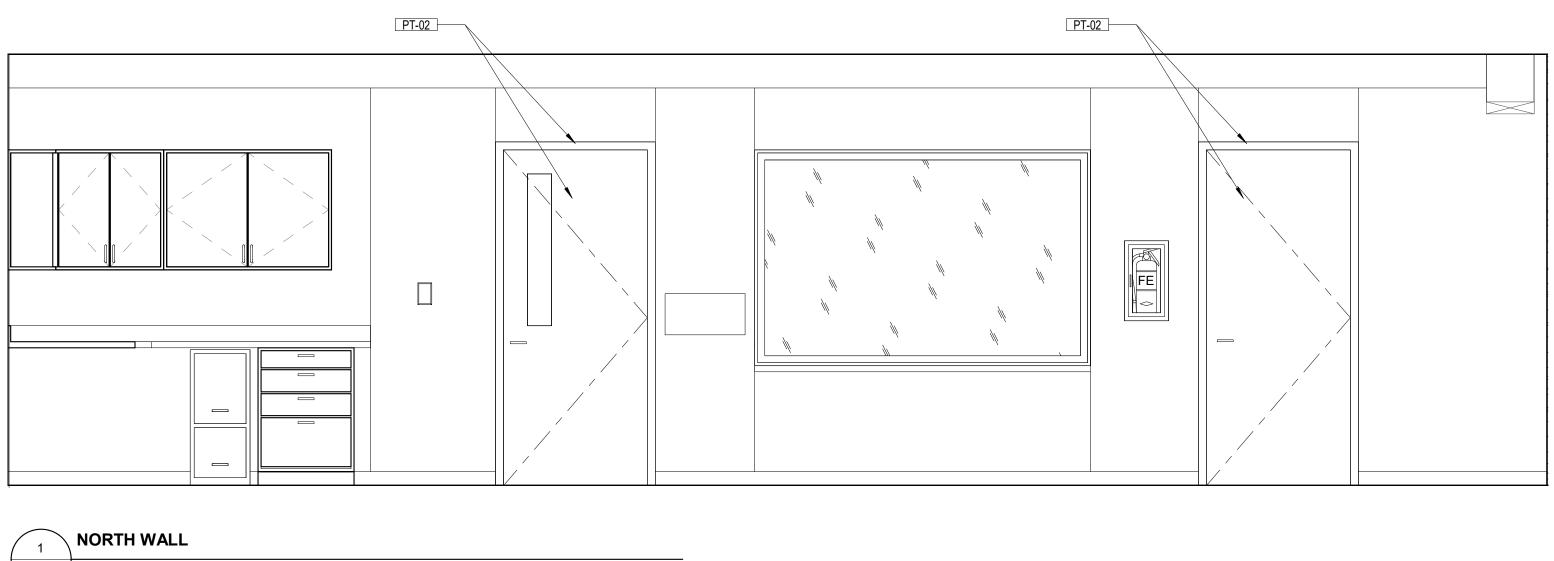
NOTE: STRUCTURAL DESIGN OF SHED AND RETAINING WALLS TO BE BY BIDDER.



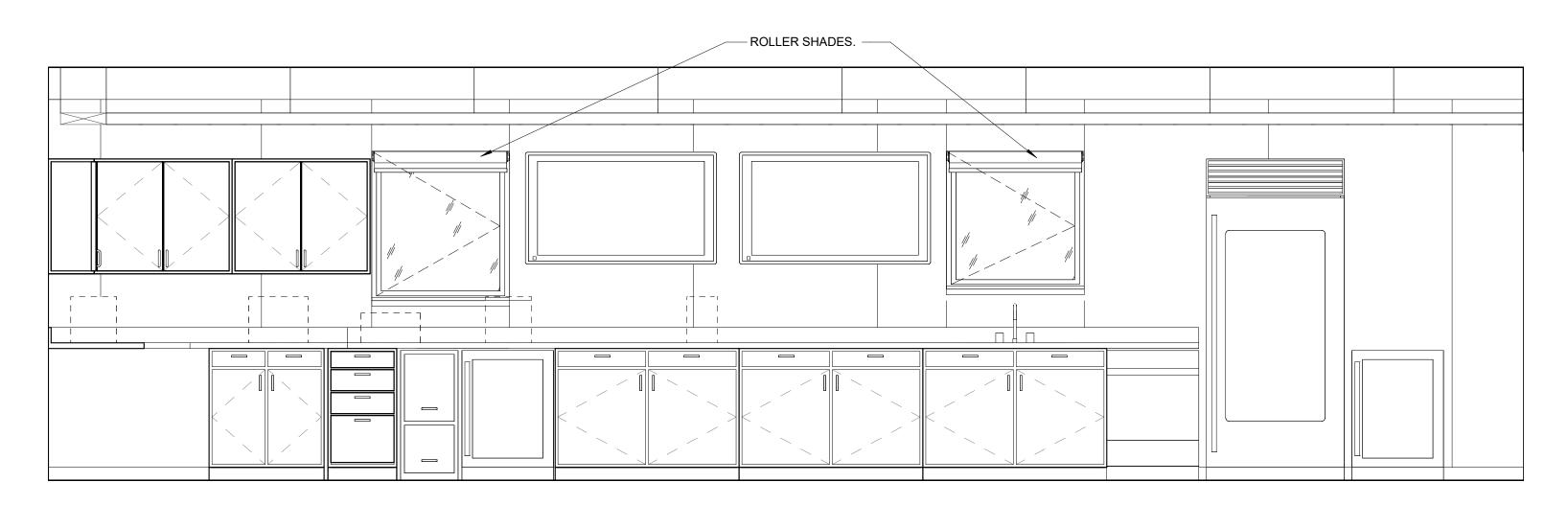




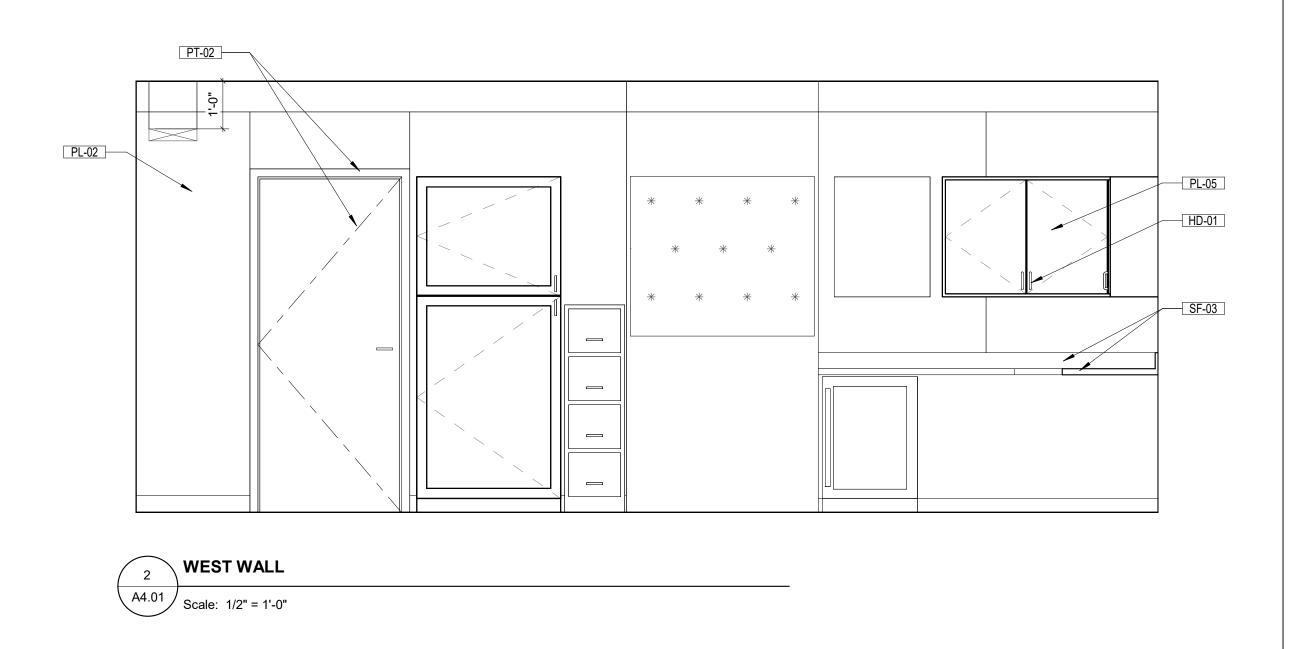


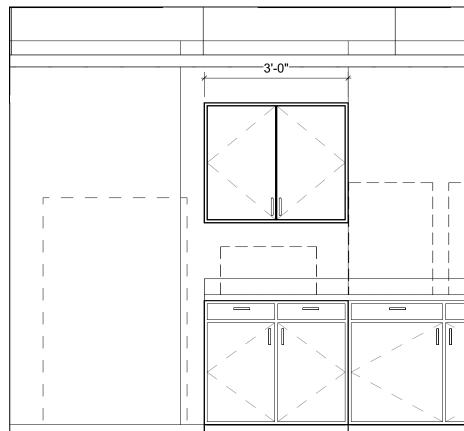


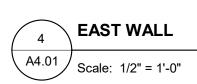
A4.01 Scale: 1/2" = 1'-0"



3 SOUTH WALL A4.01 Scale: 1/2" = 1'-0"









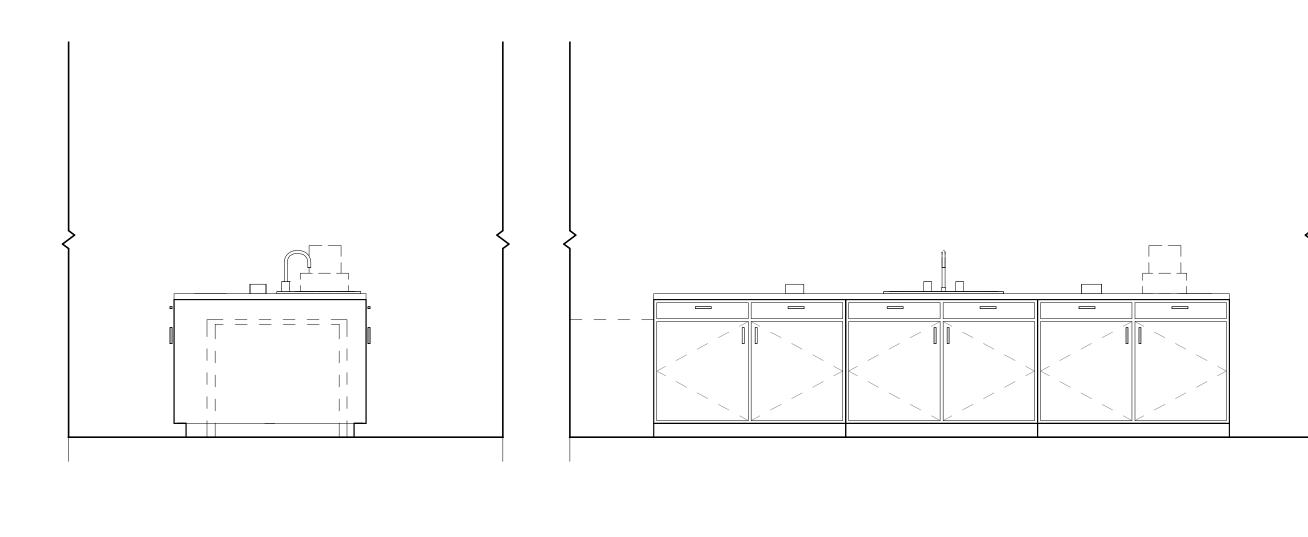
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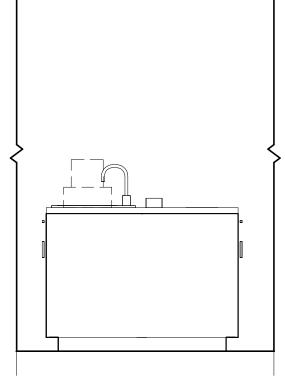
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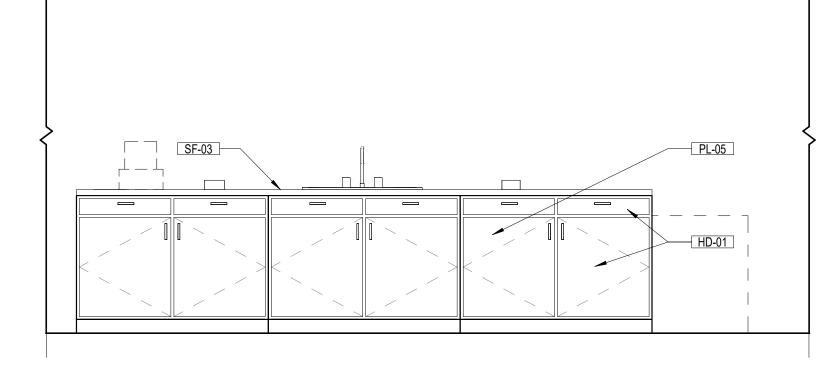
03/21/2024

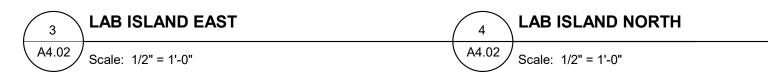
LAB ELEVATIONS



	LAB ISLAND WEST	2	LAB ISLAND SOUTH
A4.02	Scale: 1/2" = 1'-0"	A4.02	/ Scale: 1/2" = 1'-0"



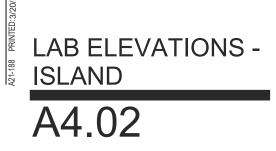


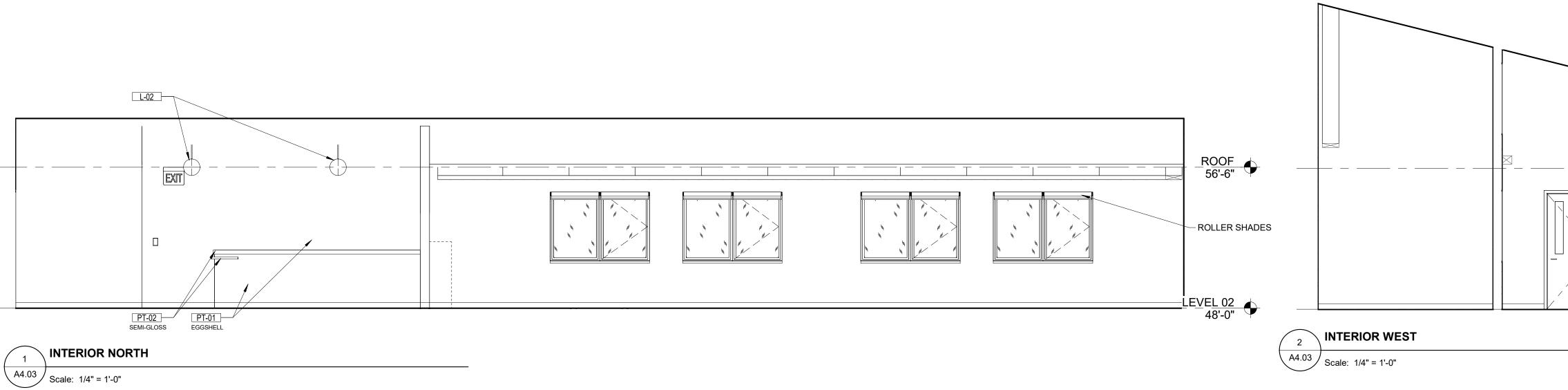


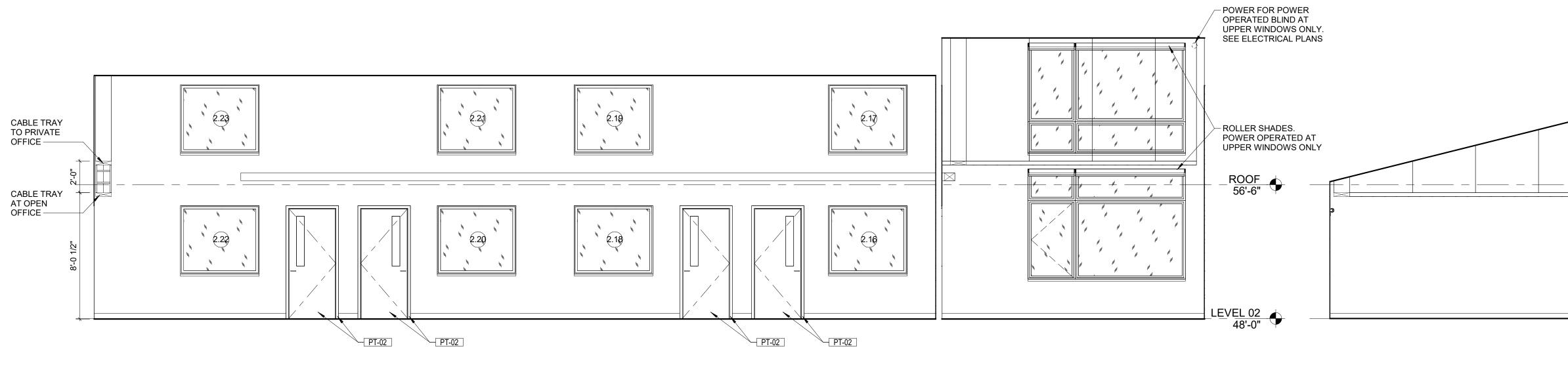










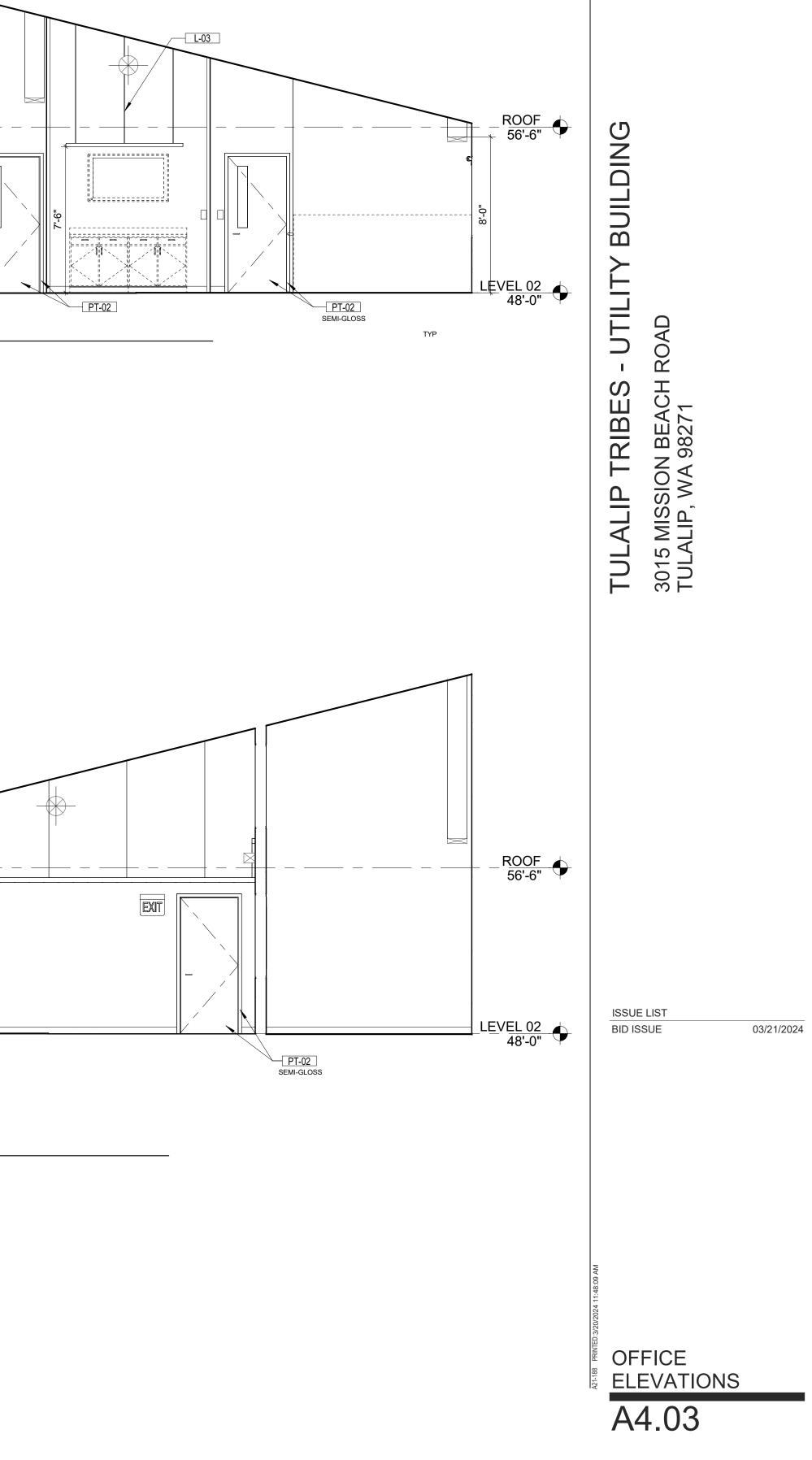


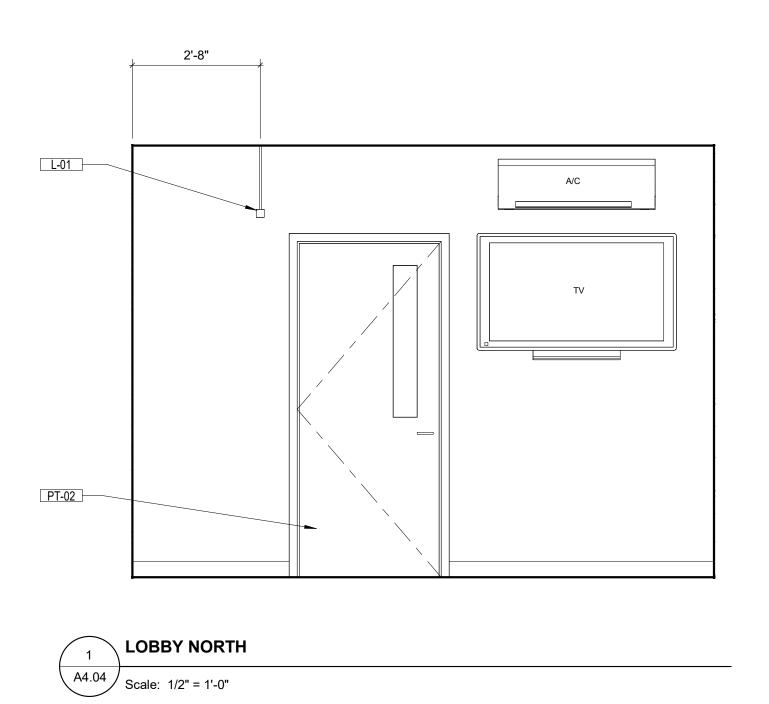
4 INTERIOR SOUTH

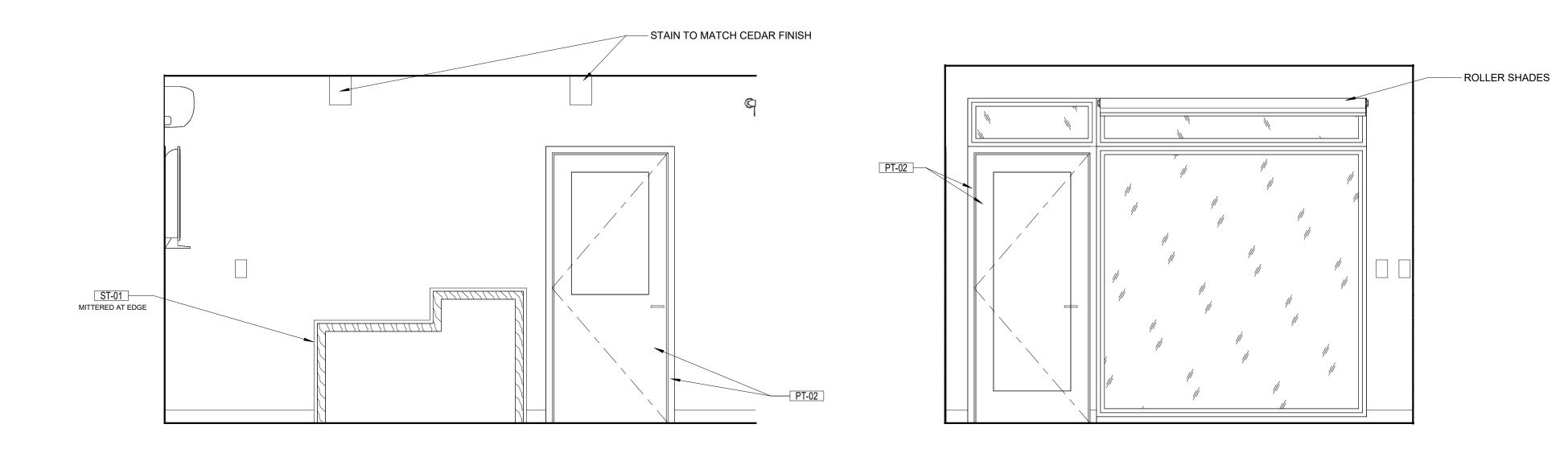
A4.03 Scale: 1/4" = 1'-0"

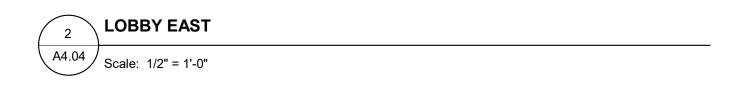
3 INTERIOR EAST A4.03 Scale: 1/4" = 1'-0"

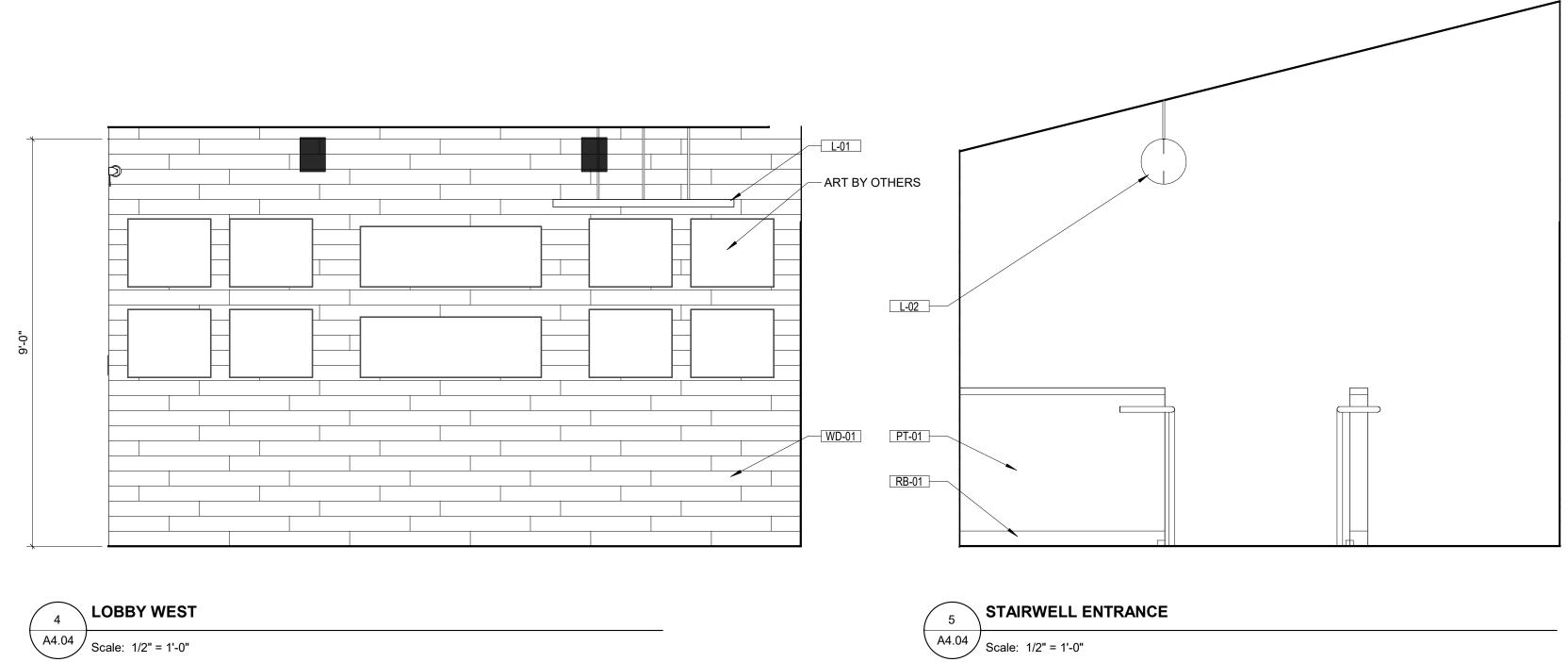












LOBBY SOUTH 3 A4.04 / Scale: 1/2" = 1'-0"

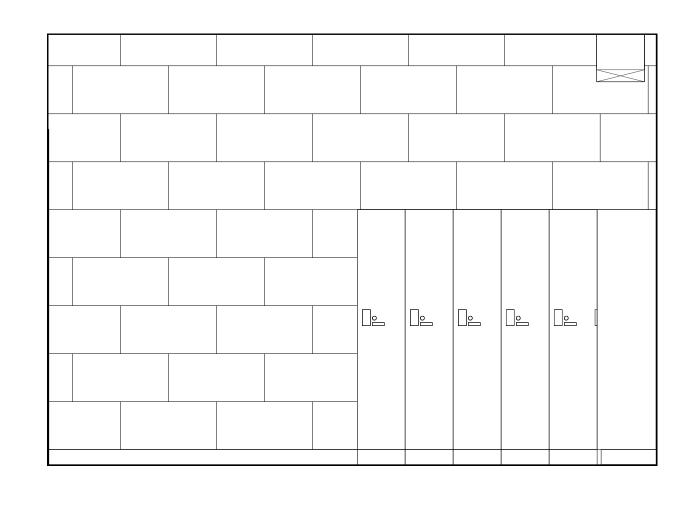


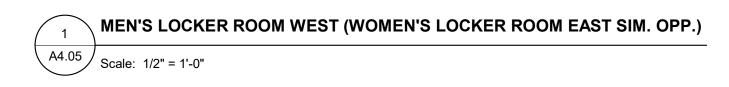
UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271 **TULALIP TRIBES**

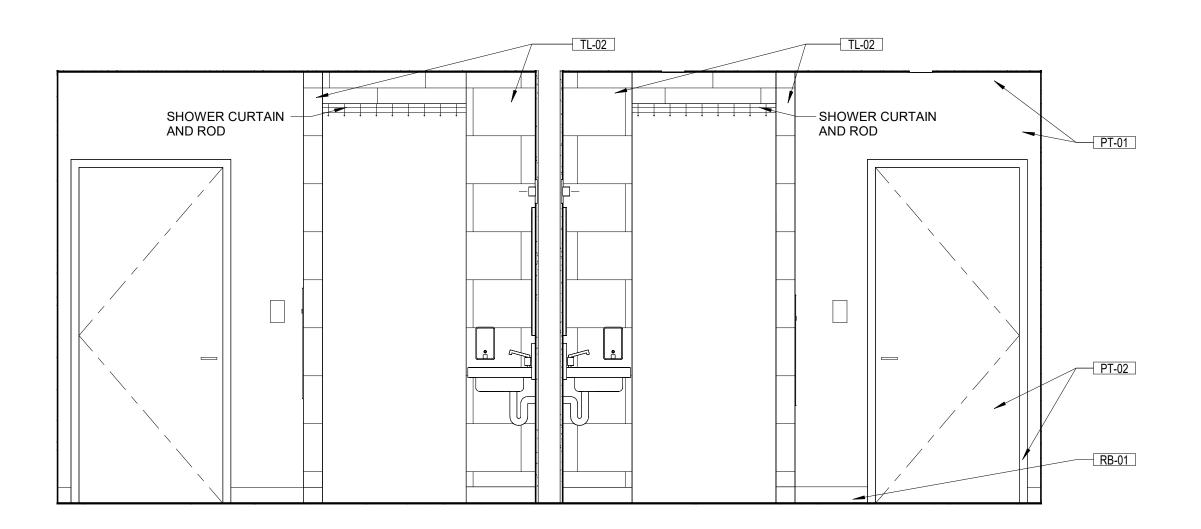
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LOBBY & EXIT ELEVATIONS A4.04

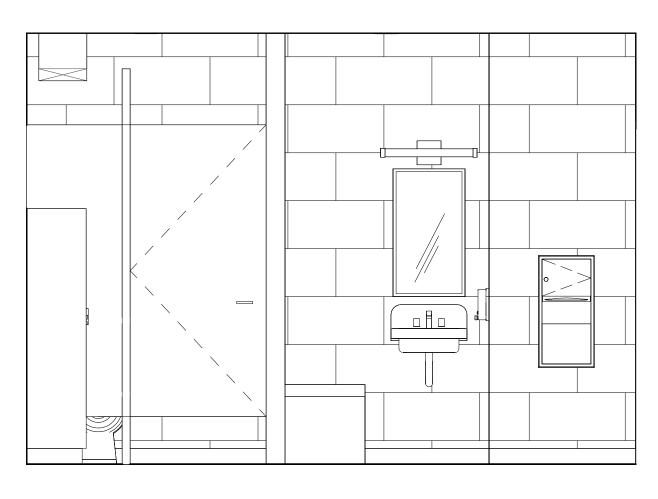


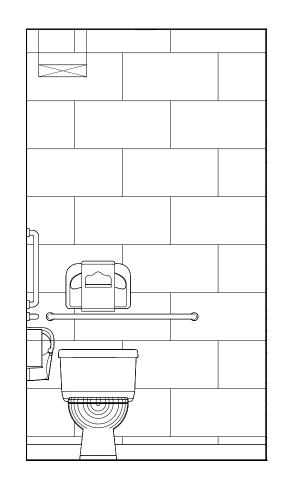




MEN'S AND WOMEN'S LOCKER ROOM SOUTH

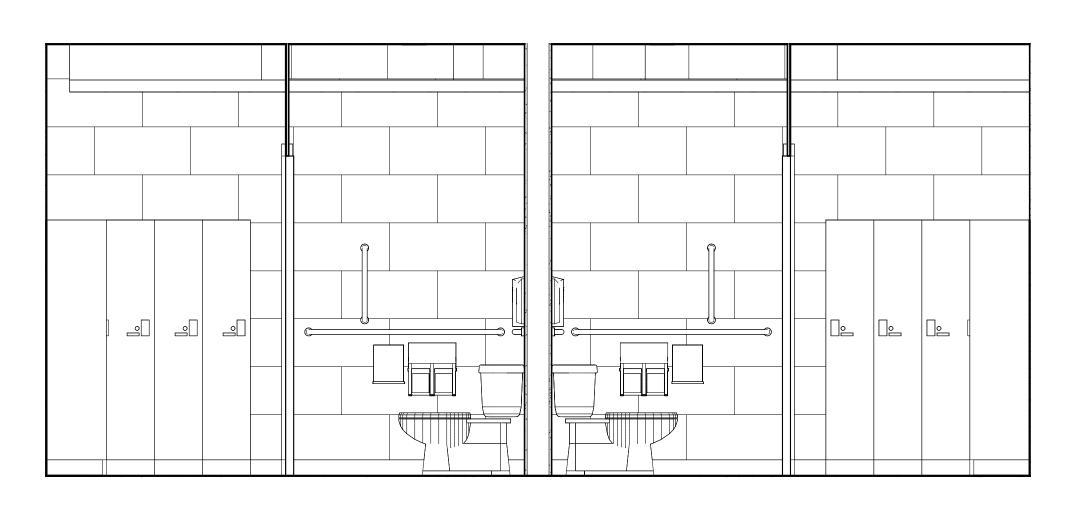
4 A4.05 Scale: 1/2" = 1'-0"





MEN'S LOCKER ROOM EAST (WOMEN'S LOCKER ROOM WEST SIM. OPP.) 2 A4.05 Scale: 1/2" = 1'-0"





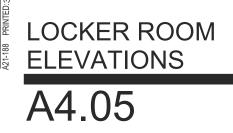
MEN'S AND WOMEN'S LOCKER ROOMS NORTH 5

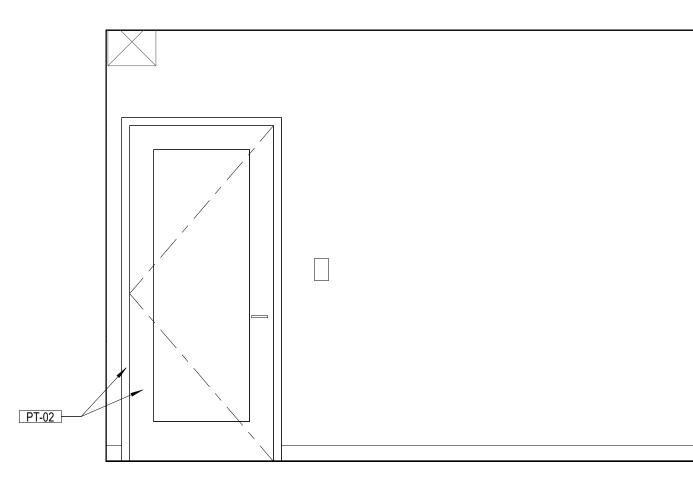
A4.05 Scale: 1/2" = 1'-0"

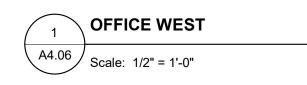


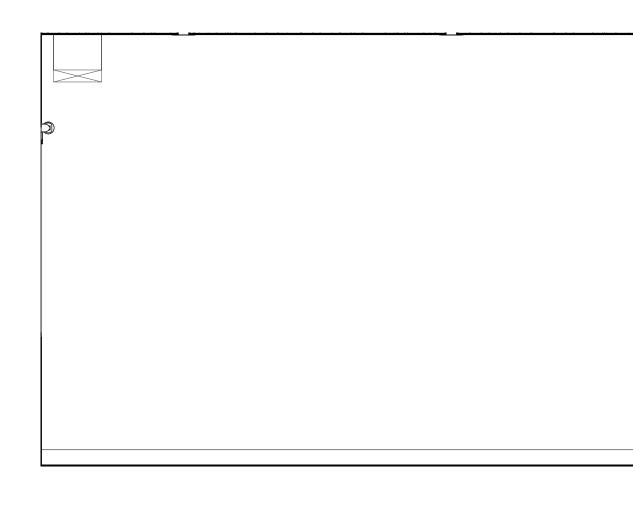
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ISSUE LIST **BID ISSUE**

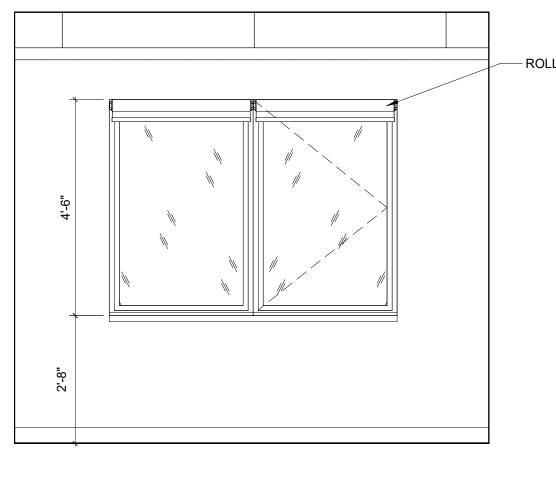


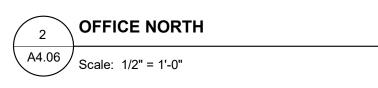


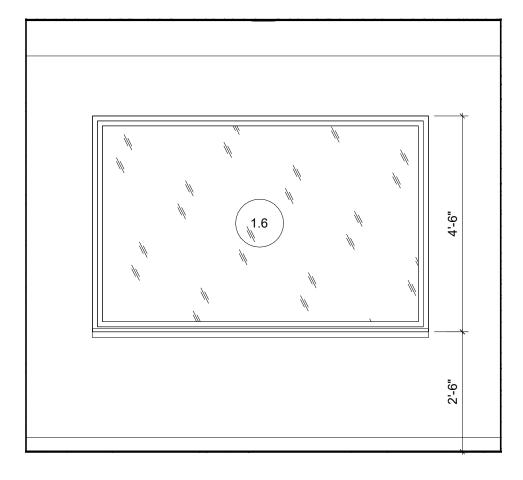


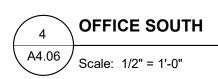












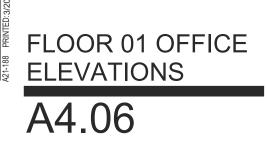
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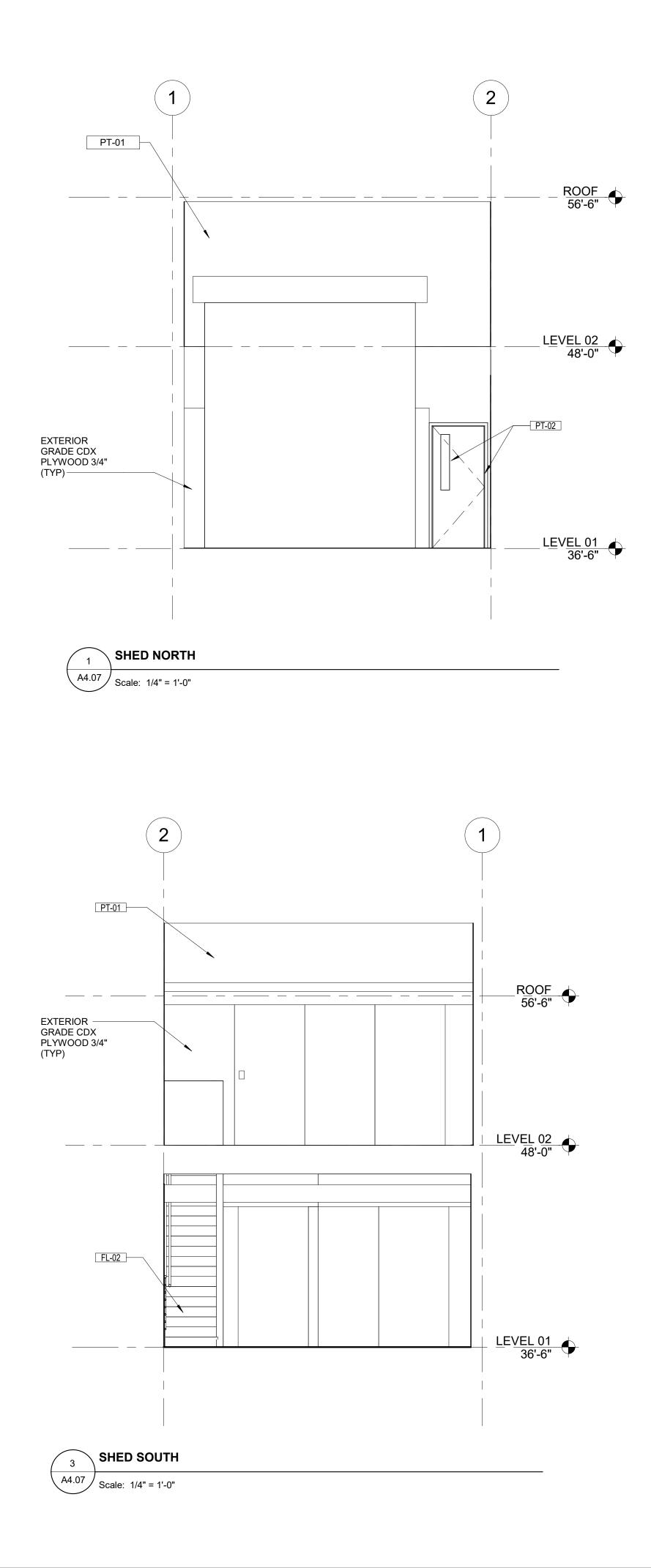


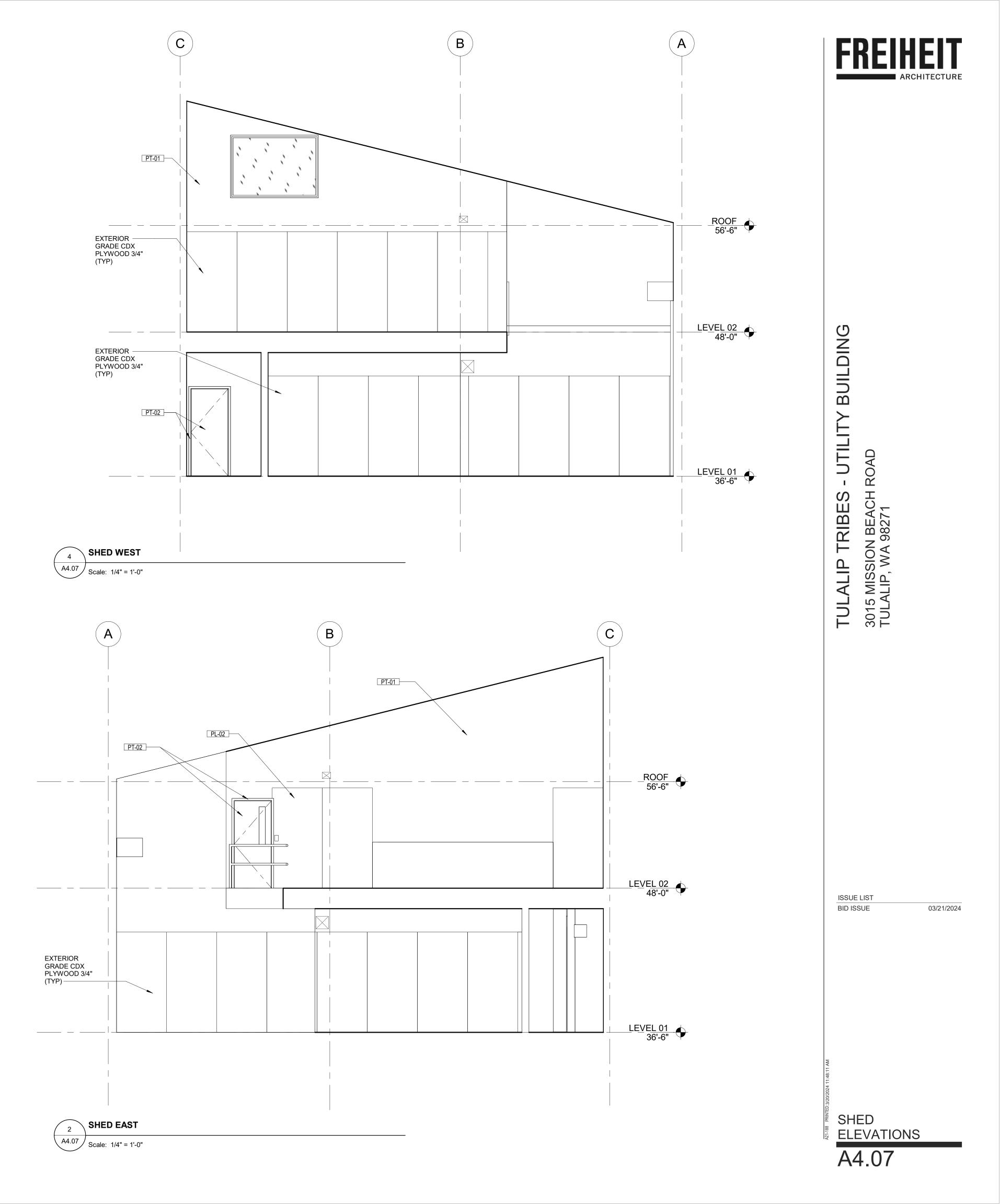
- ROLLER SHADE

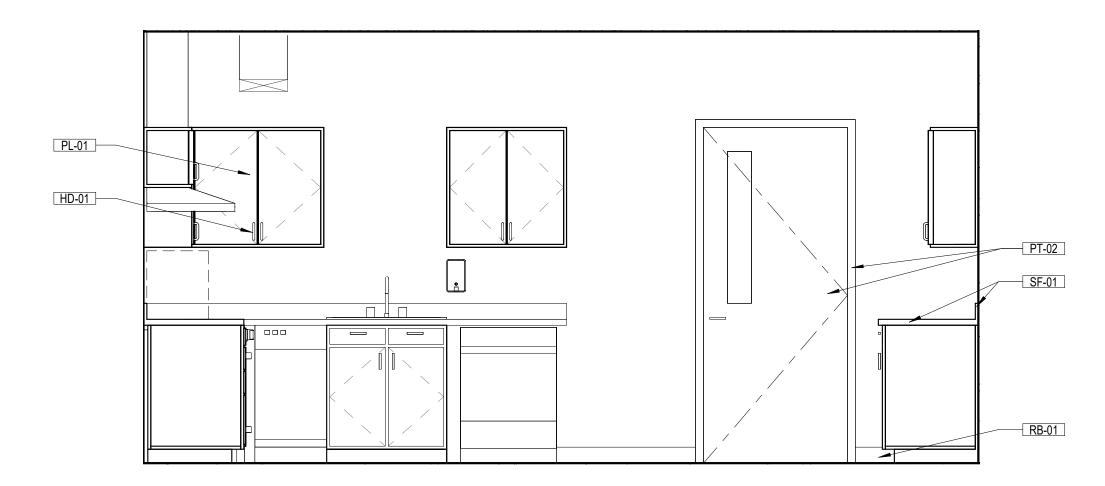
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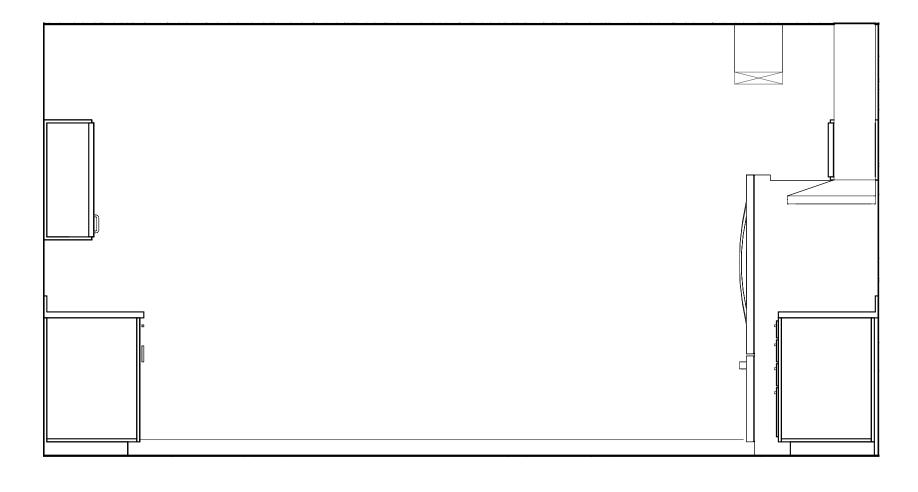


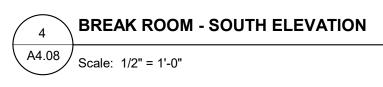


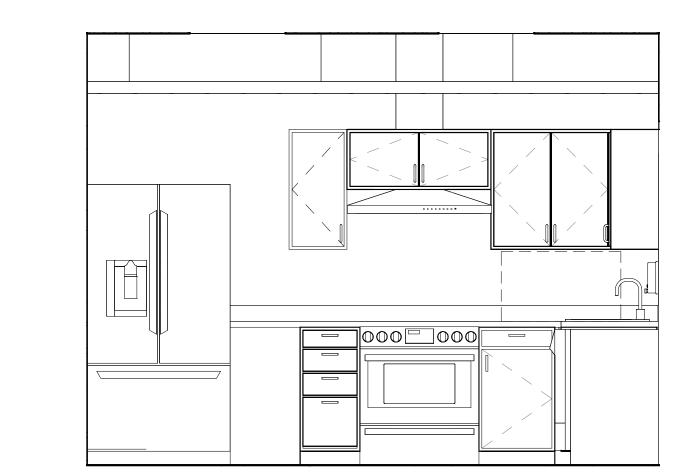


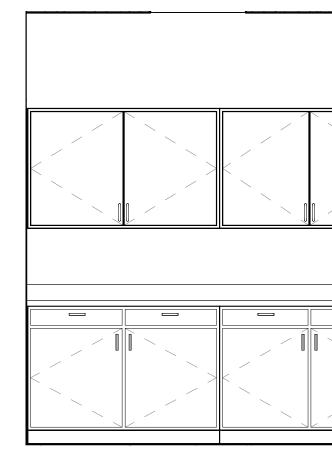














A4.08 Scale: 1/2" = 1'-0"

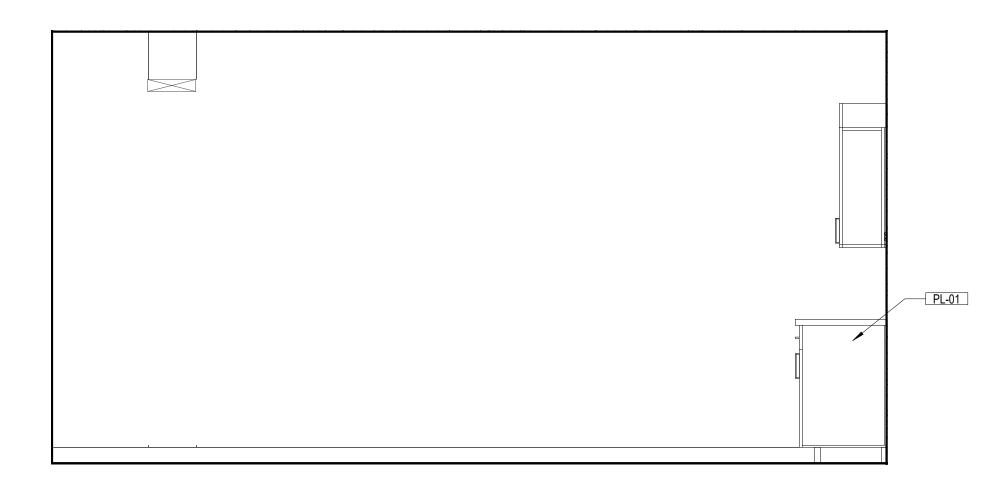




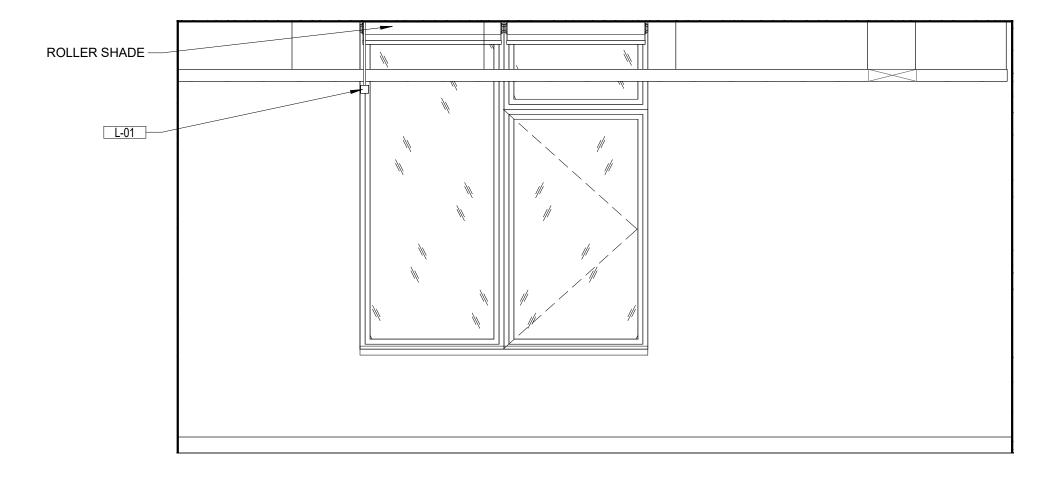
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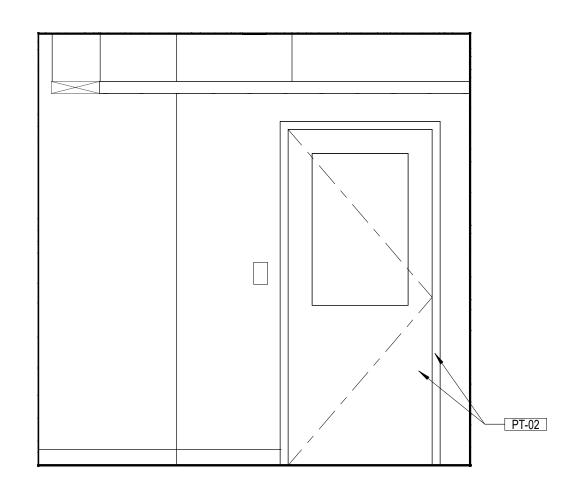
BREAKROOM ELEVATIONS A4.08





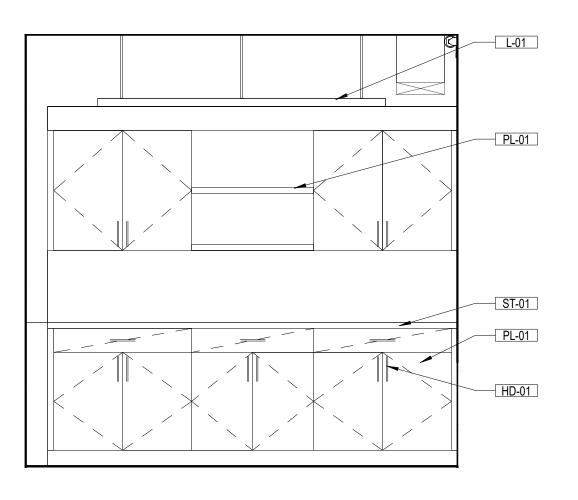






2 BILLING OFFICE - WEST ELEVATION

A4.09 Scale: 1/2" = 1'-0"





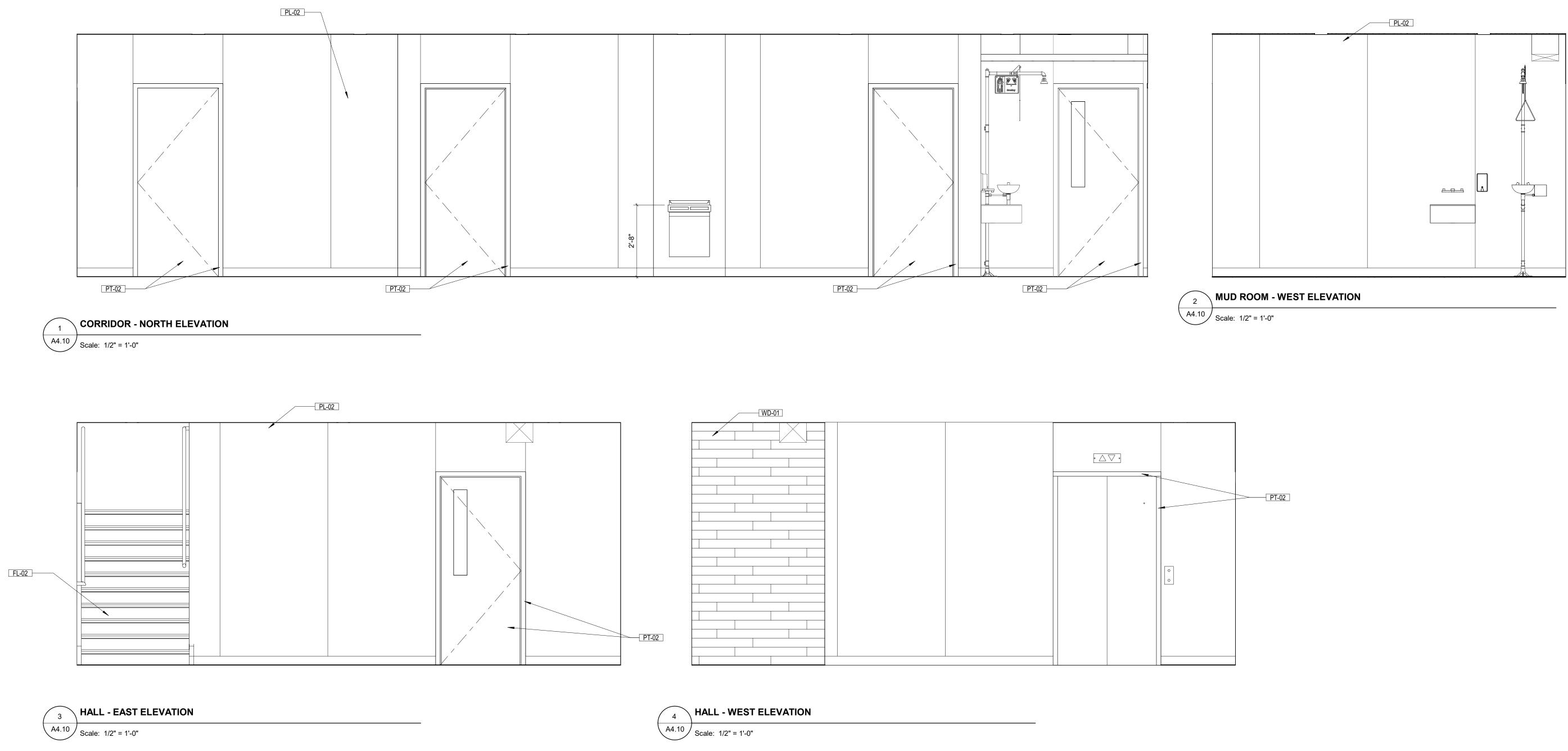


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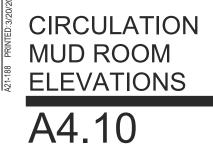
BILLING OFFICE ELEVATIONS A4.09

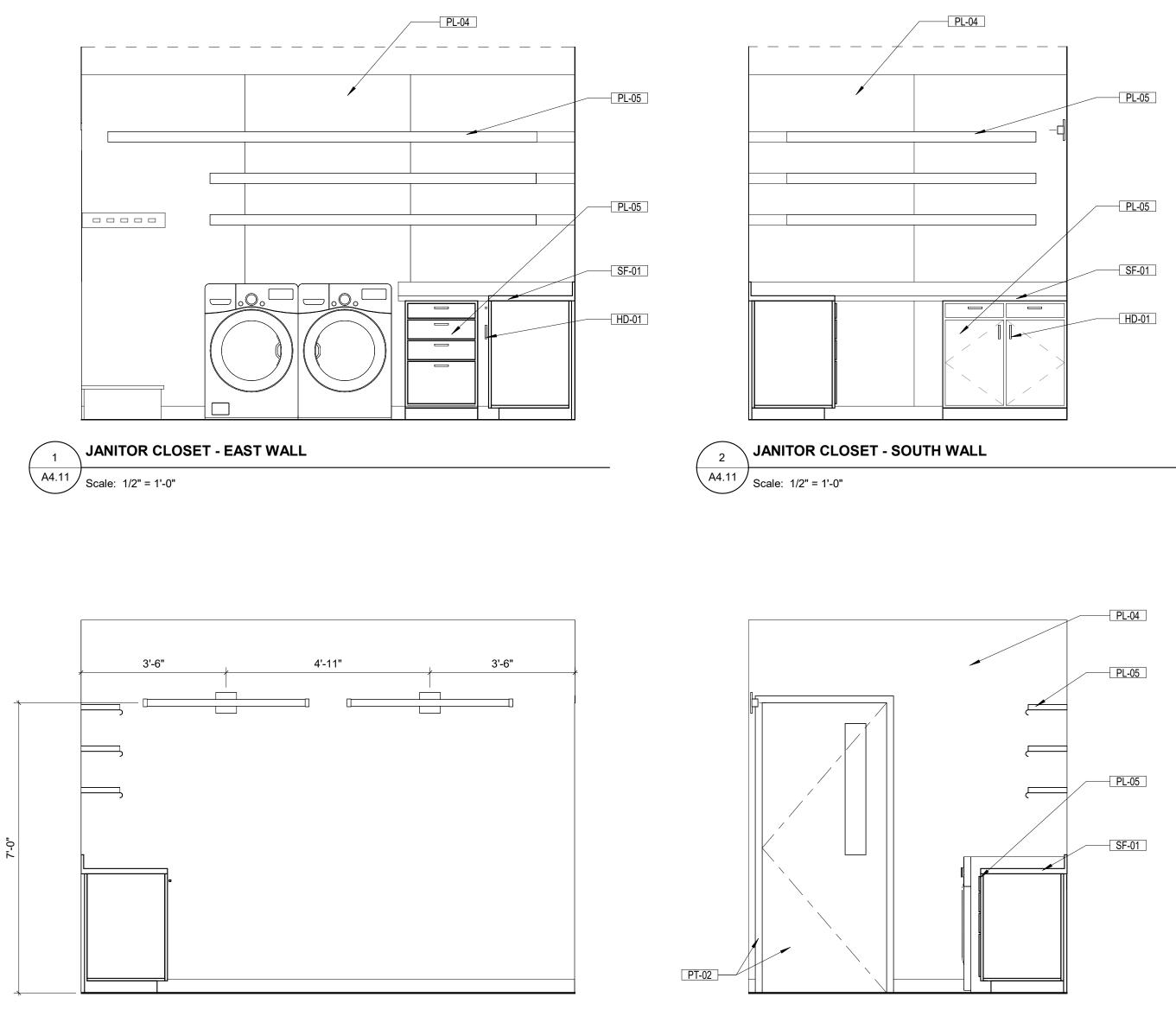


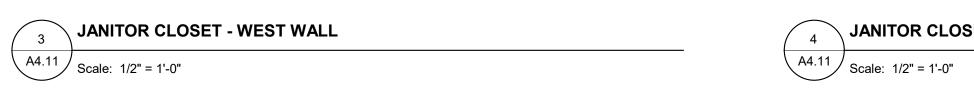


- UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271 **TULALIP TRIBES**

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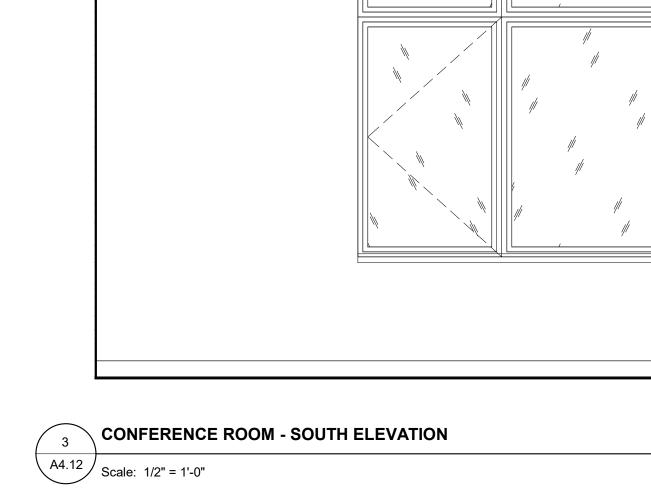
→ JANITOR CLOSET - NORTH WALL



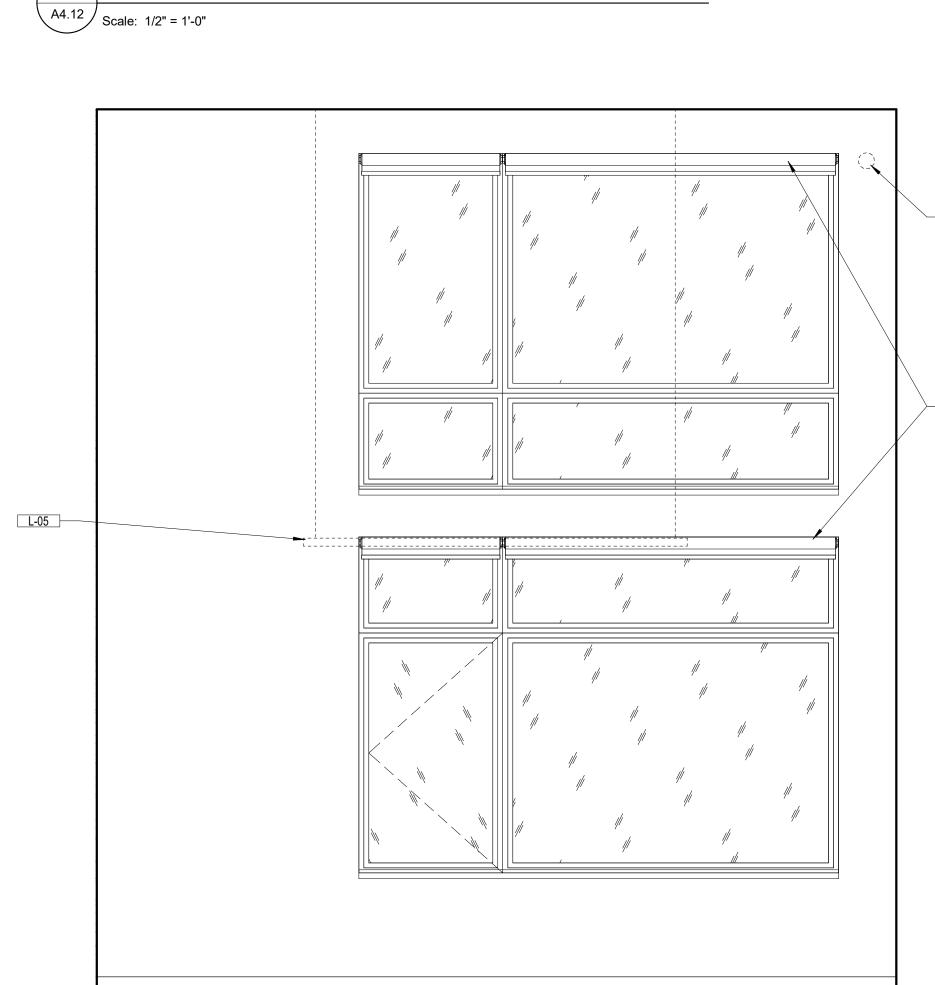
BUILDING UTILITY 3015 MISSION BEACH ROAD TULALIP, WA 98271 1 **TULALIP TRIBES**

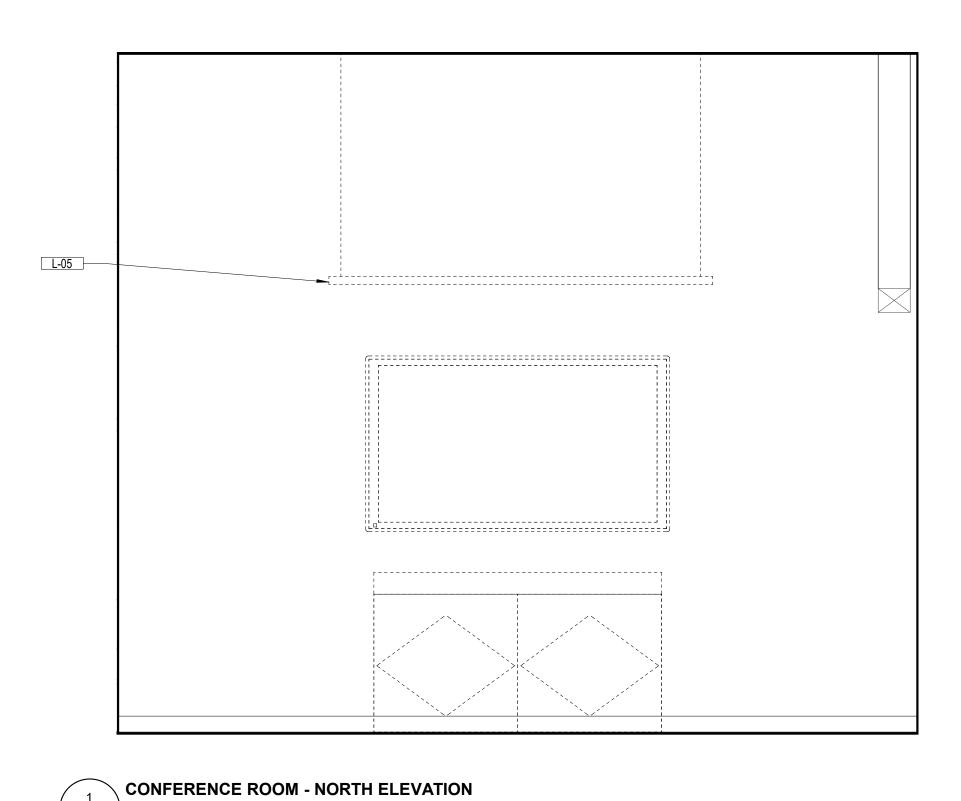
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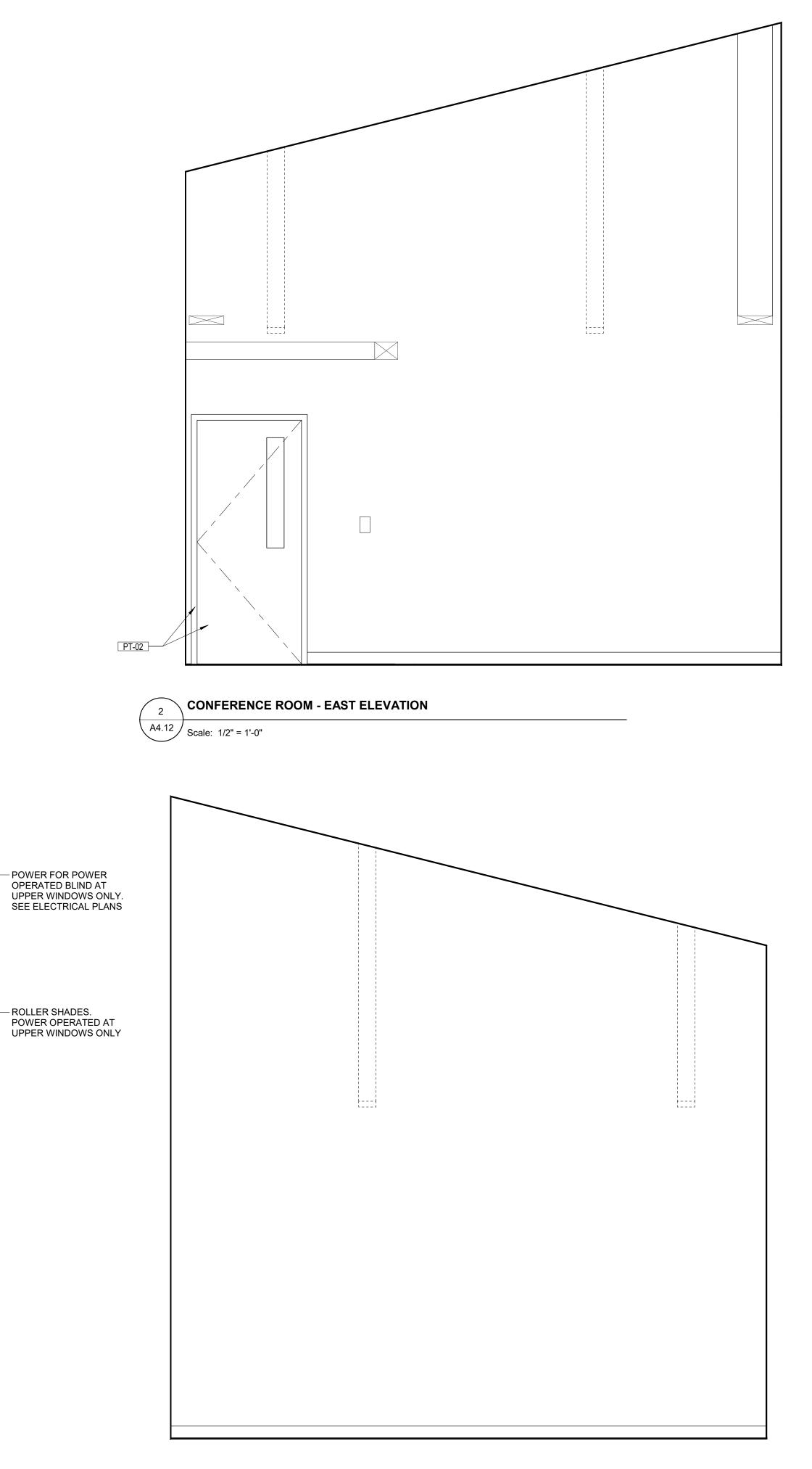




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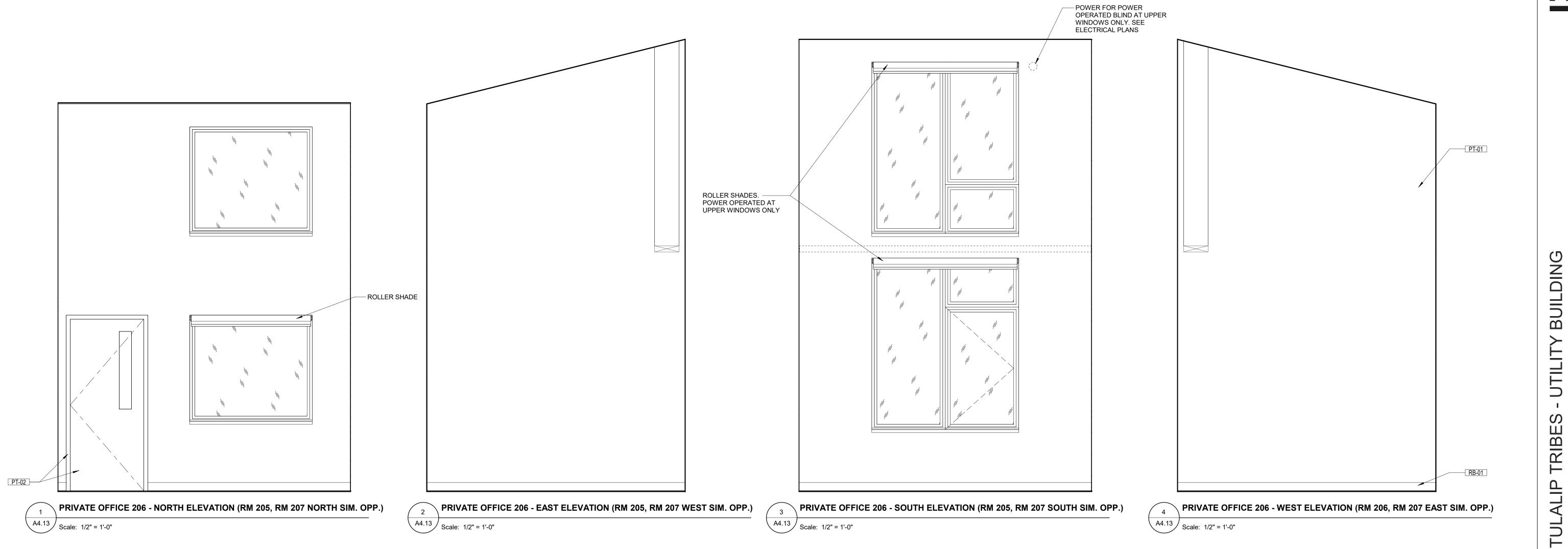
CONFERENCE ROOM - WEST ELEVATION 4 A4.12 Scale: 1/2" = 1'-0"



BUILDING UTILITY ROAD 1 3015 MISSION BEACH TULALIP, WA 98271 **TULALIP TRIBES**

ISSUE LIST **BID ISSUE**





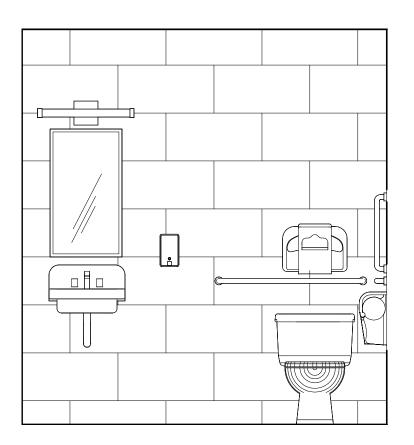


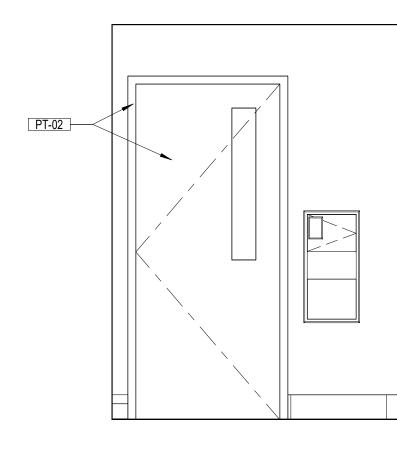


PRIVATE OFFICE 206 ELEVATIONS A4.13

ROAD

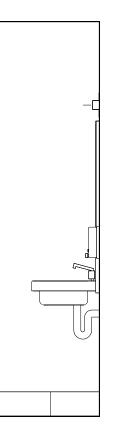
3015 MISSION BEACH TULALIP, WA 98271

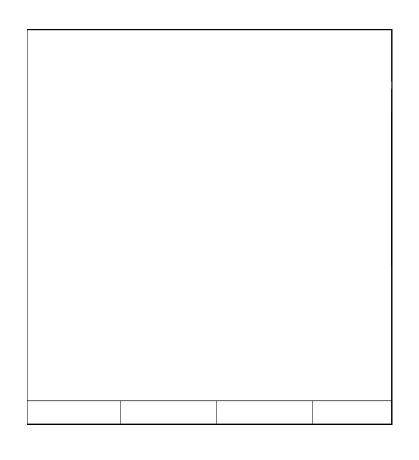




↓ FLOOR 2 MEN'S RESTROOM EAST (WOMEN'S RESTROOM WEST SIM. OPP.) A4.14 Scale: 1/2" = 1'-0"

2 A4.14 Scale: 1/2" = 1'-0"

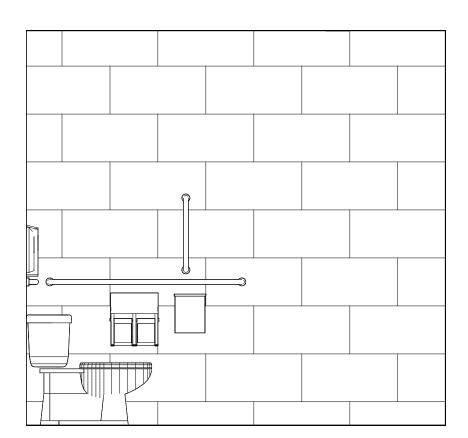




 \sim FLOOR 2 MEN'S RESTROOM NORTH (WOMEN'S RESTROOM NORTH SIM. OPP.)

✓ FLOOR 2 MEN'S RESTROOM WEST (WOMEN'S RESTROOM EAST SIM. OPP.) 3 FLOOR 2 MEN' A4.14 Scale: 1/2" = 1'-0"





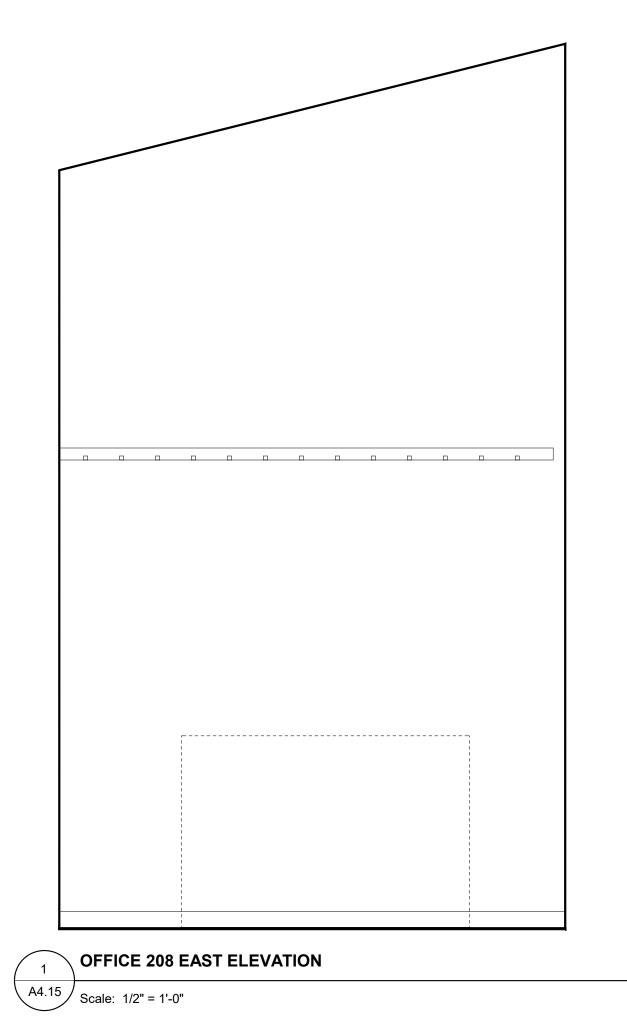
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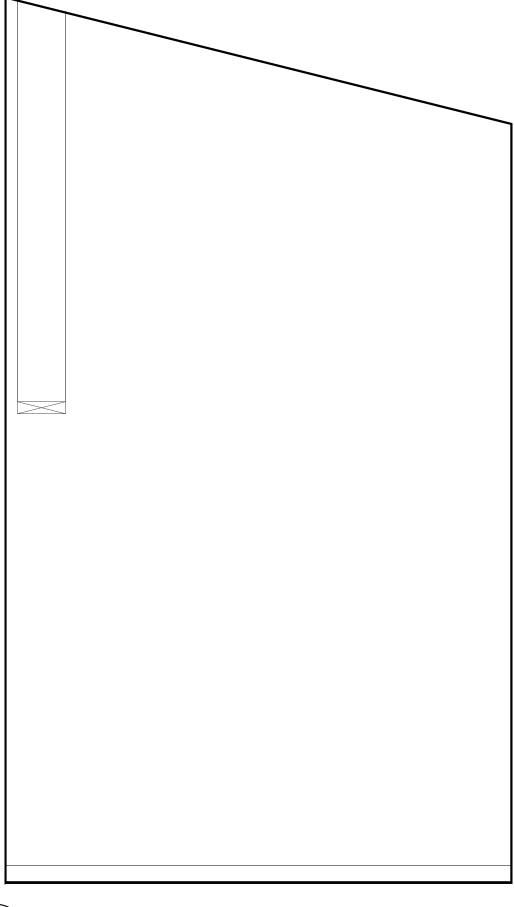
FLOOR 2 MEN'S RESTROOM SOUTH (WOMEN'S RESTROOM SOUTH SIM. OPP.) A4.14 Scale: 1/2" = 1'-0"

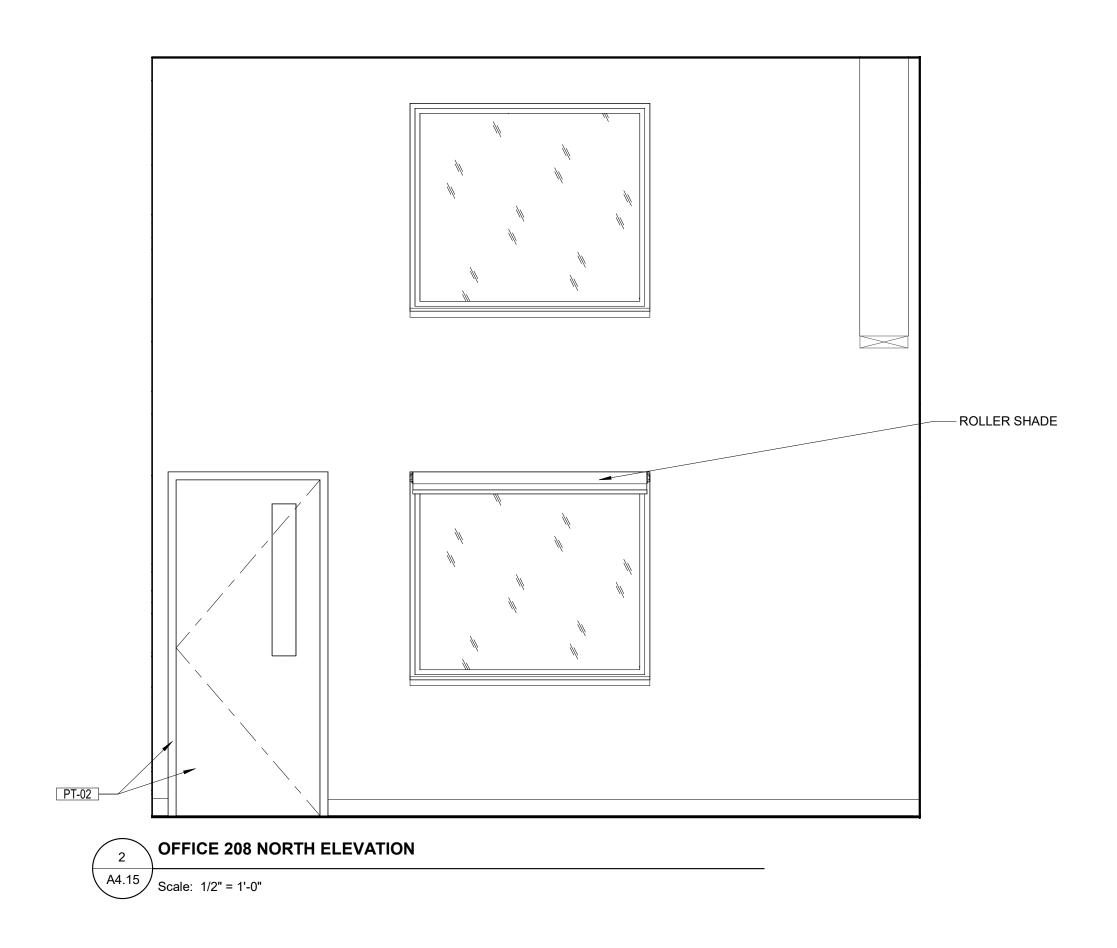
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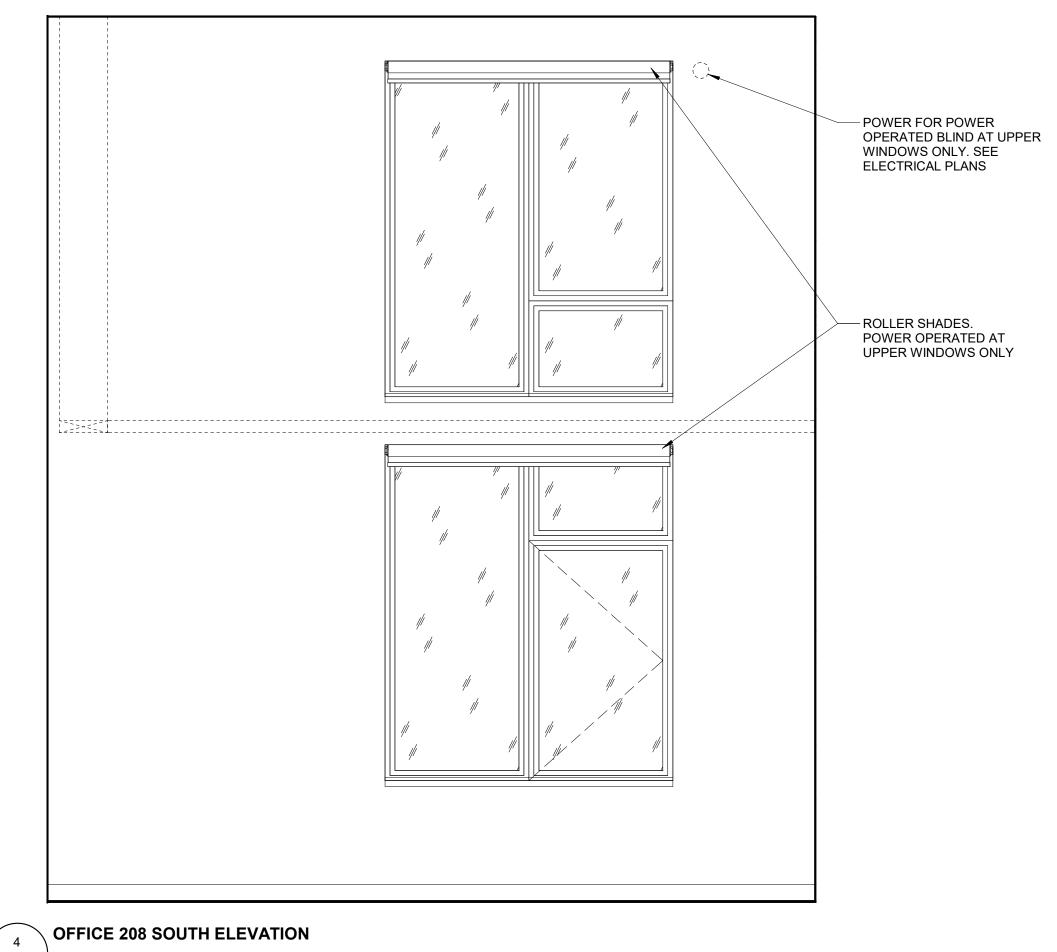
ISSUE LIST
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LEVEL 2 RESTROOMS A4.14









A4.15 Scale: 1/2" = 1'-0"

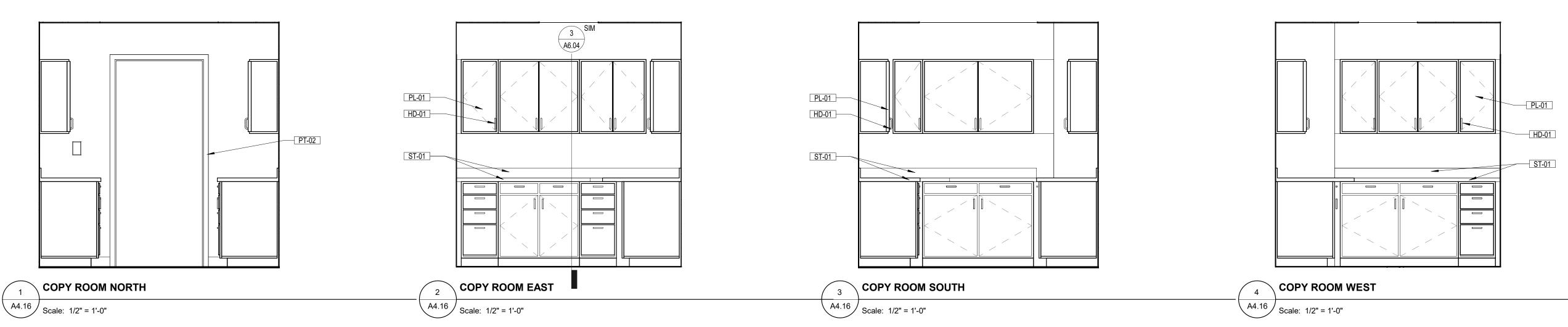


TULALIP TRIBES - UTILITY 3015 MISSION BEACH ROAD TULALIP, WA 98271

BUILDING

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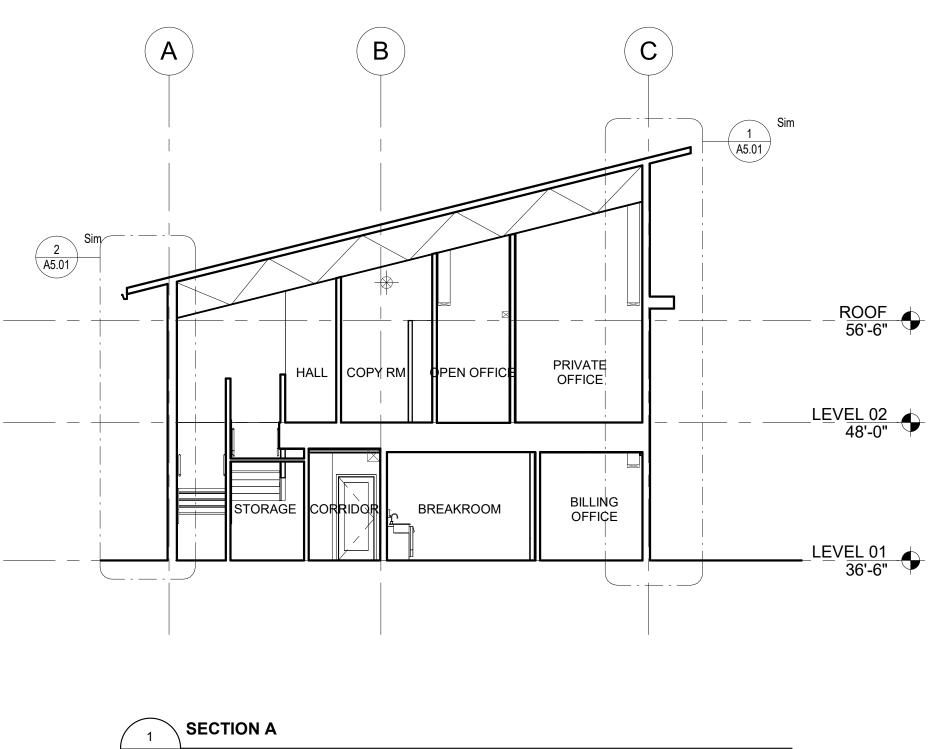




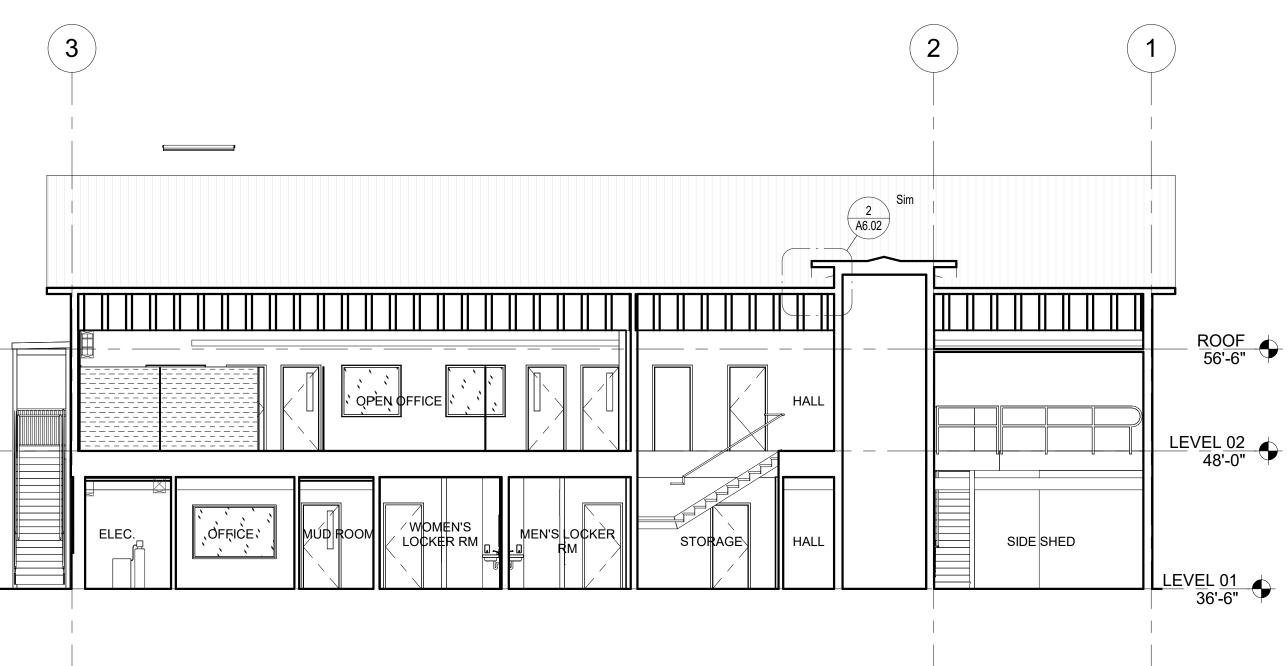
- UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271 **TULALIP TRIBES**

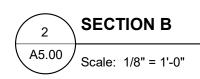
ISSUE LIST BID ISSUE

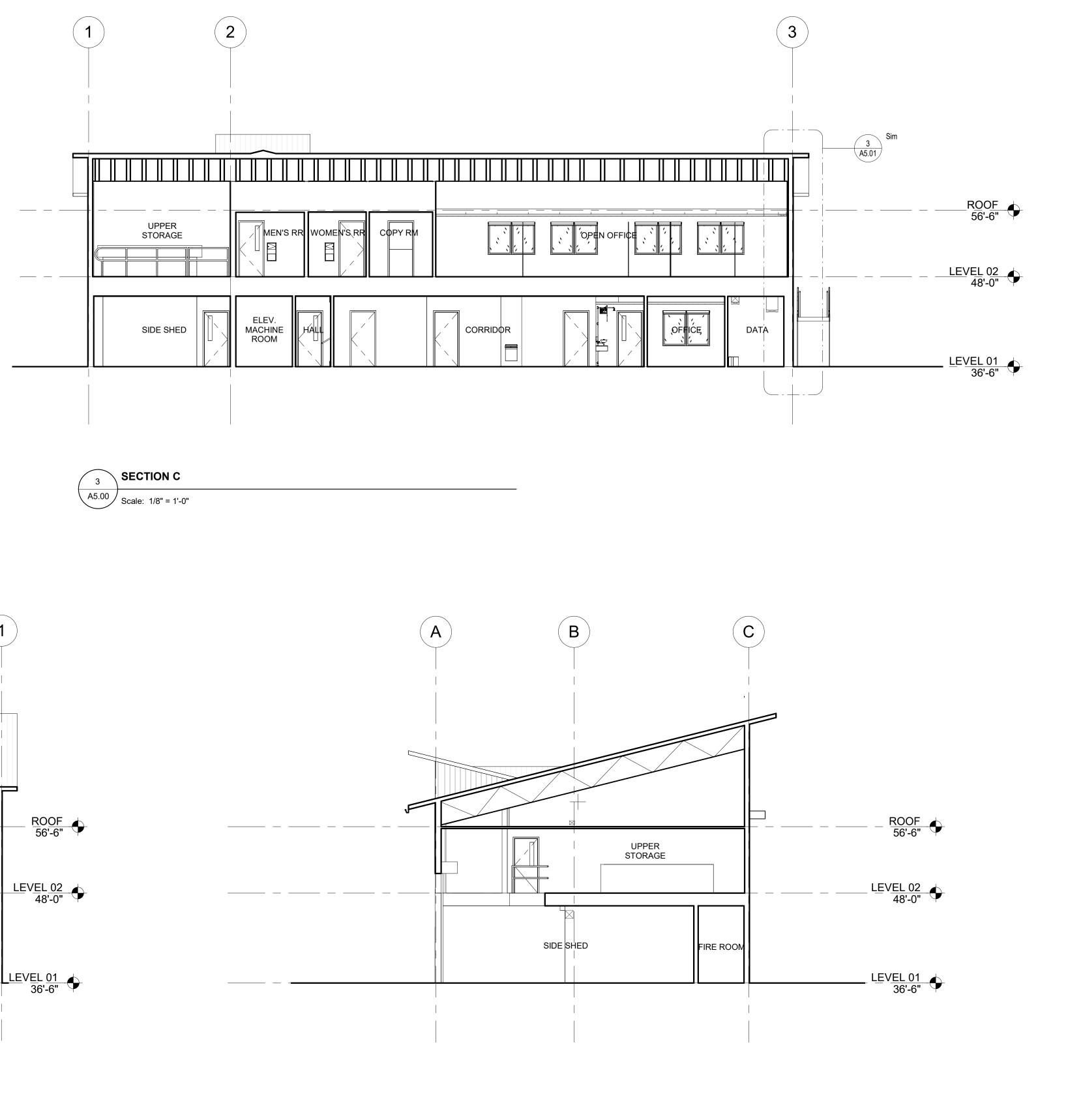
COPY ROOM ELEVATIONS A4.16



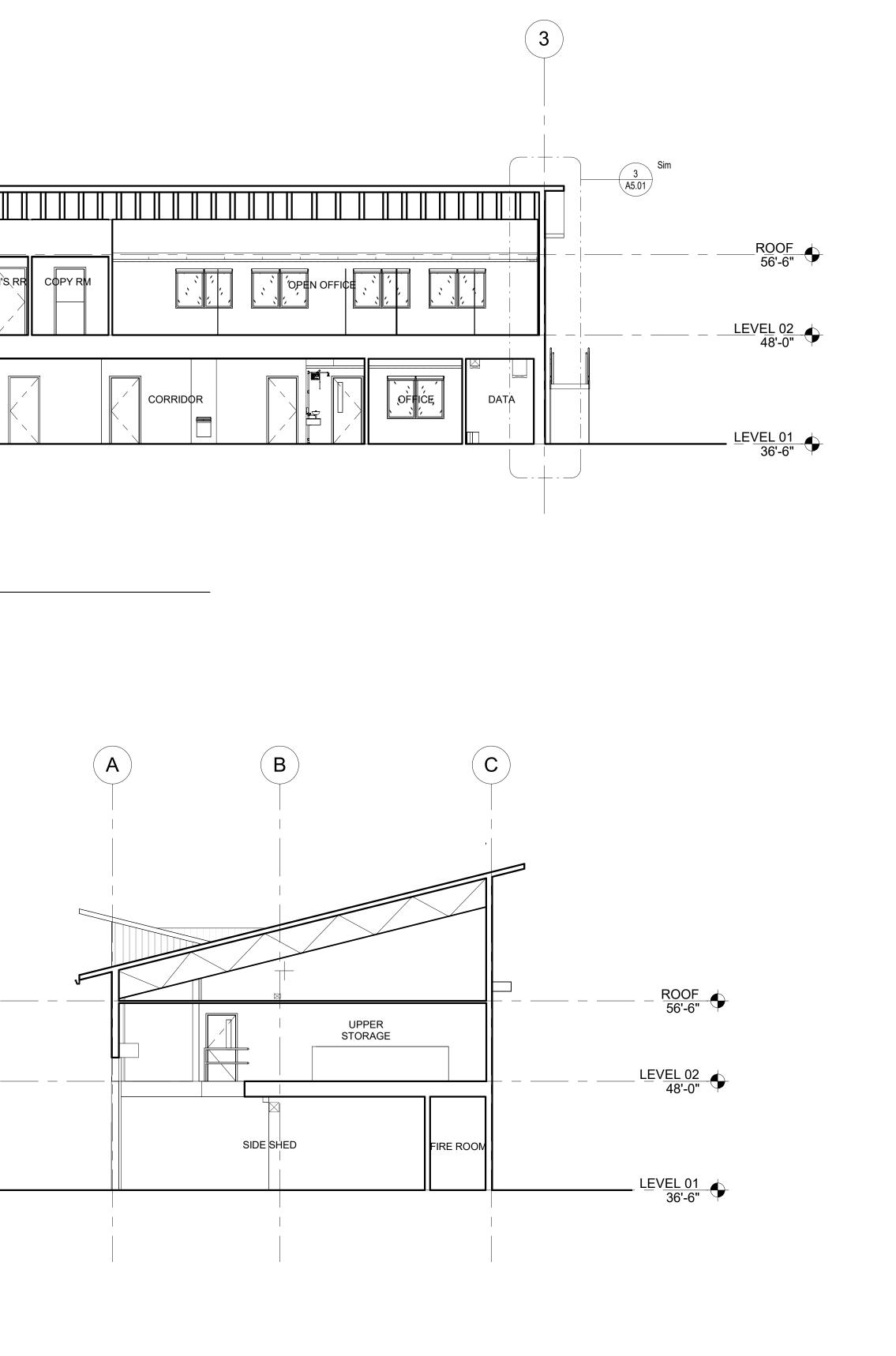
A5.00 Scale: 1/8" = 1'-0"

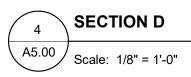
















ISSUE LIST BID ISSUE

BUILDING SECTIONS

A5.00

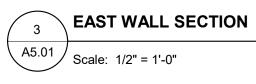


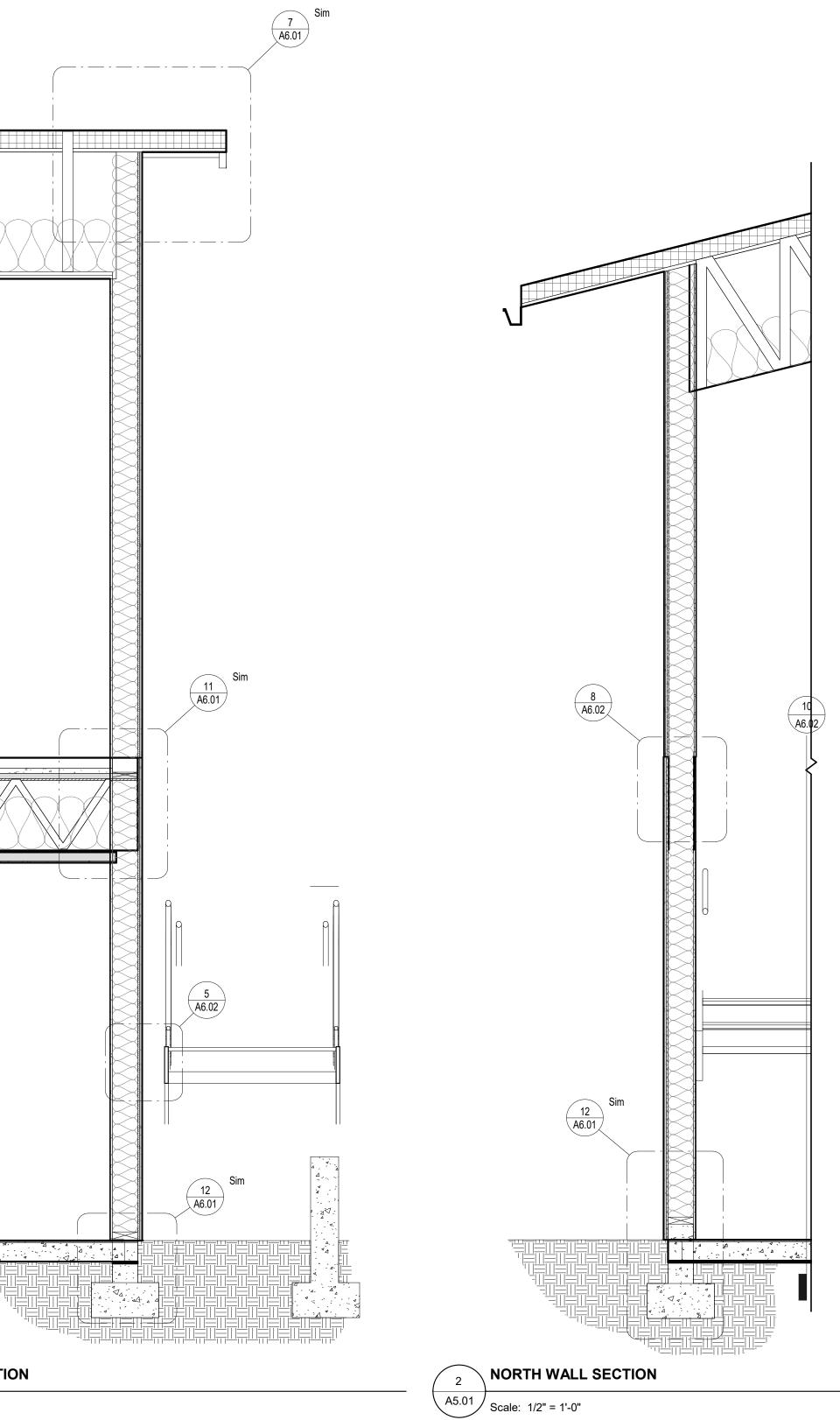






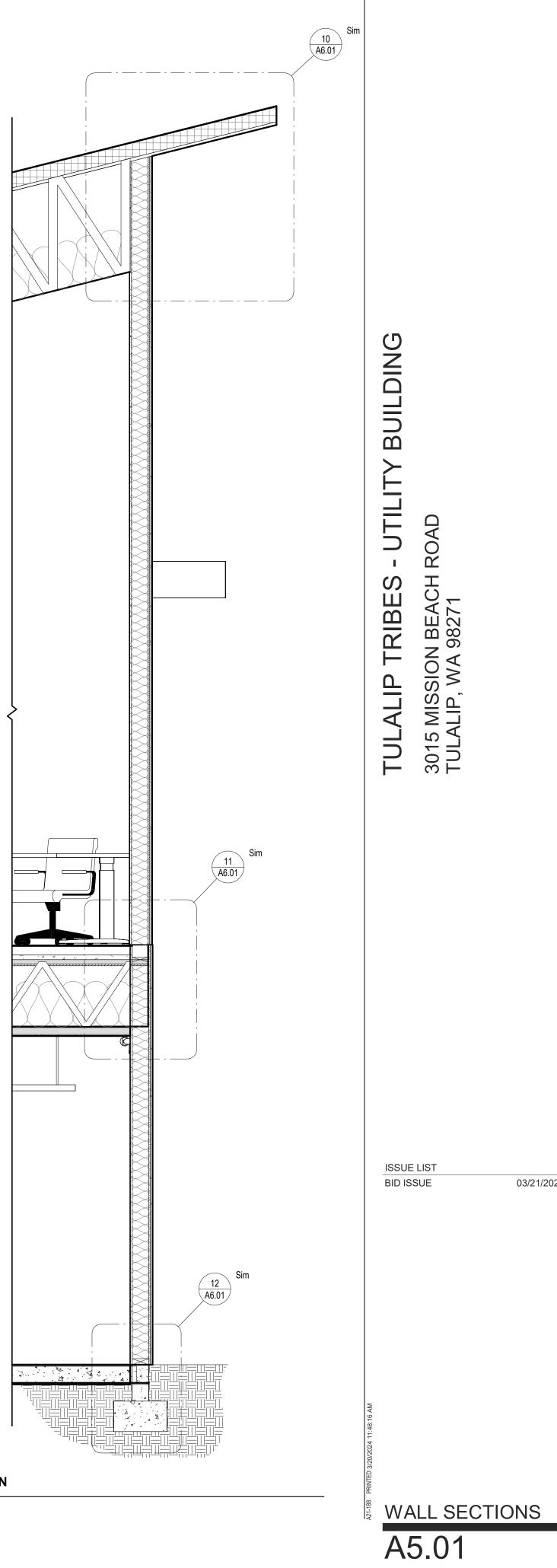






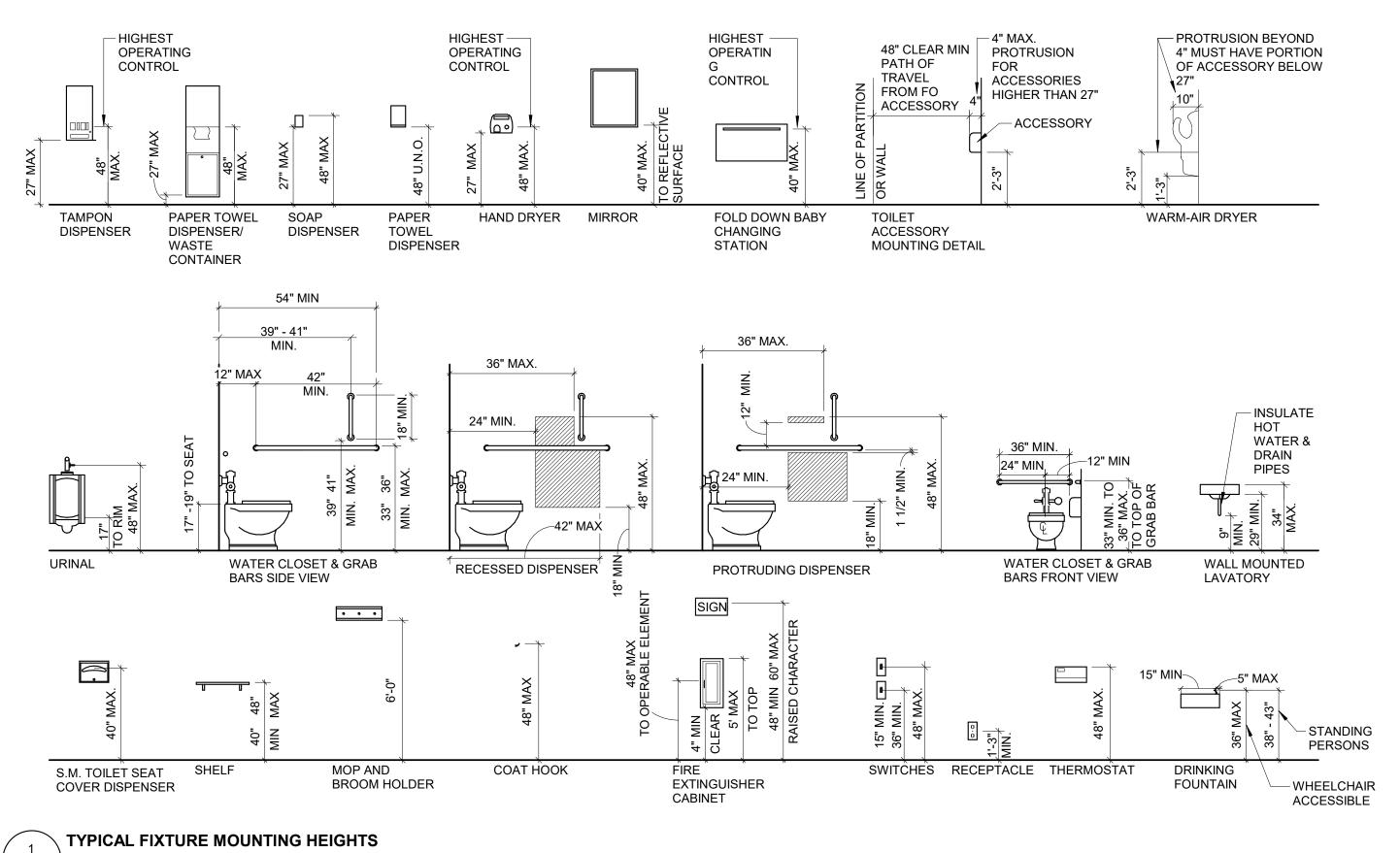


03/21/2024

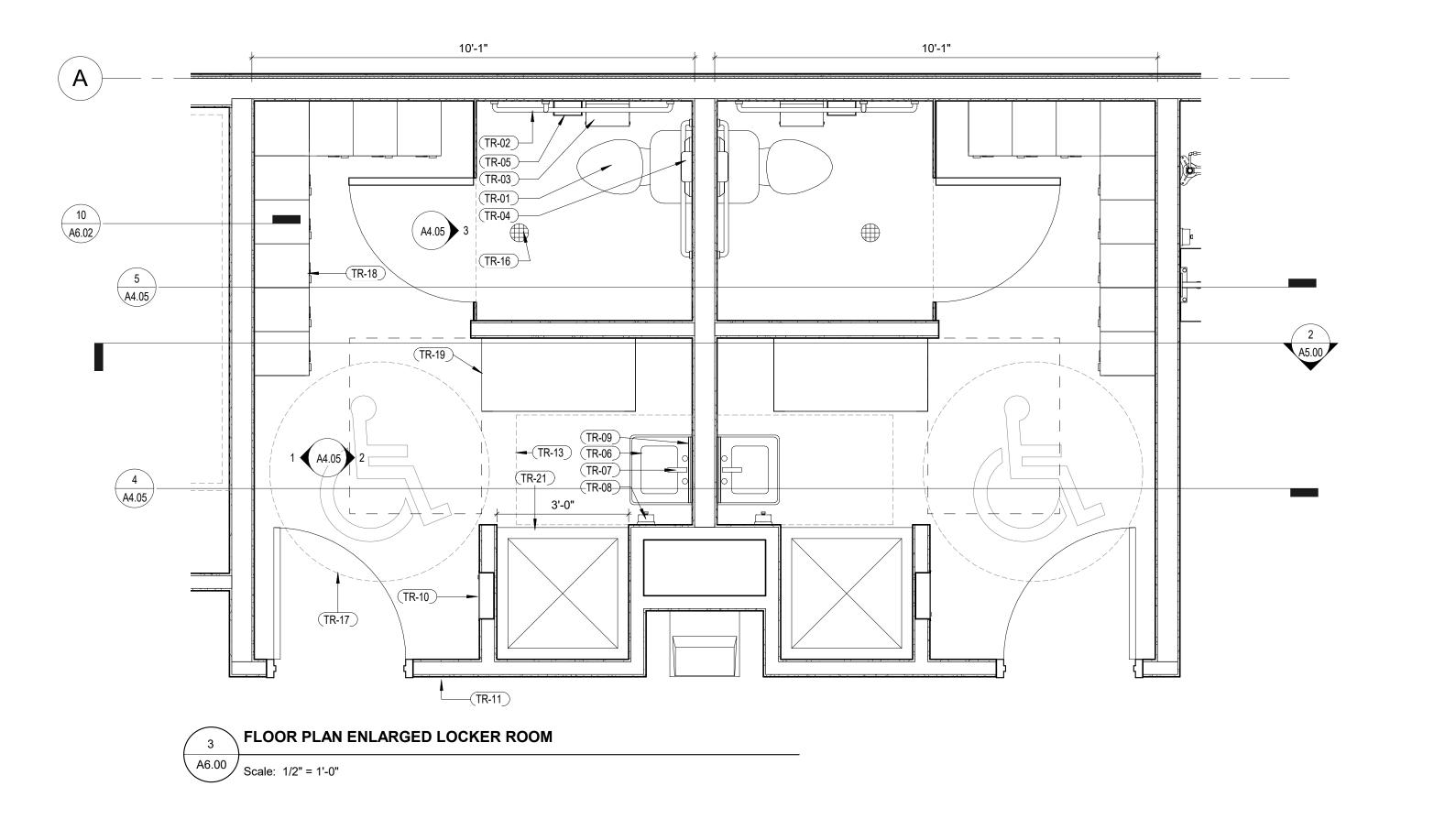


SOUTH WALL SECTION

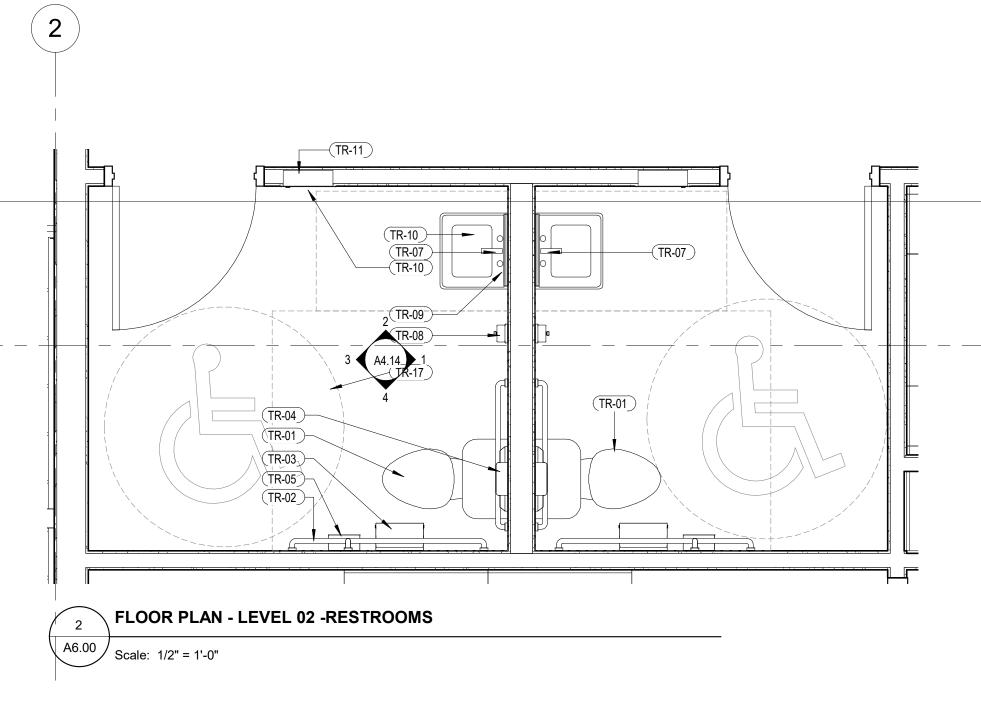
A5.01 Scale: 1/2" = 1'-0"



A6.00 Scale: 6" = 1'-0"







KEYNOTES - TOILET ROOM

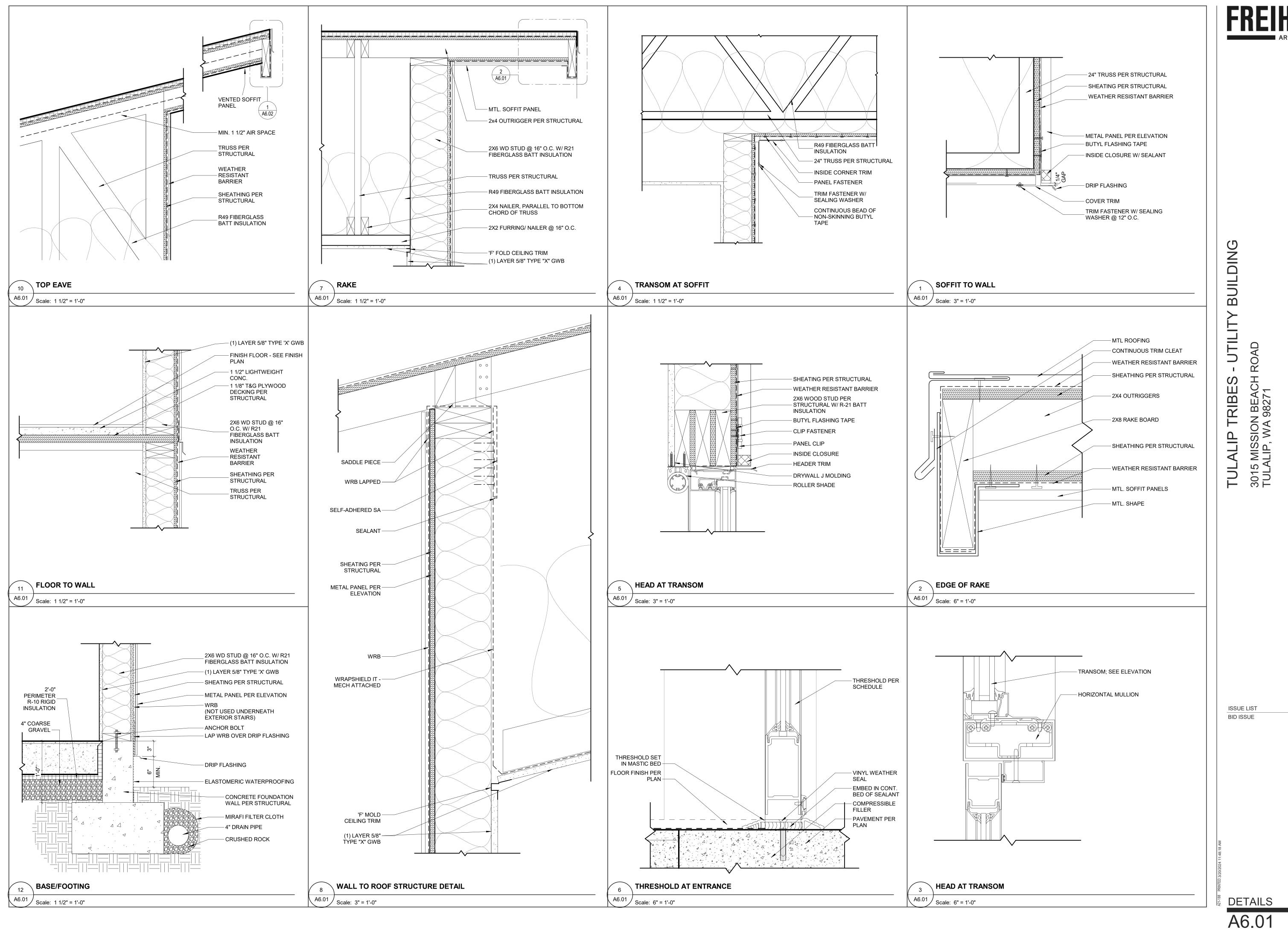
TR-01	FLOOR MOUNTED, PRESSURE ASSISTED TANK-TYPE ACCESSIBLE TOILET PER PLUMBING DRAWINGS
TR-02	ACCESSIBLE GRAB BARS. SEE DETAIL 1/6.00 FOR MOUNTING HEIGHTS
TR-03	WALL MOUNTED TOILET PAPER DISPENSER
TR-04	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
TR-05	SANITARY NAPKIN DISPOSAL
TR-06	ACCESSIBLE WALL MOUNTED SINK WITH MOLDED WHITE VINYL INSULATION ON SUPPLY PIPES & DRAIN LINES
TR-07	ACCESSIBLE FAUCET W/ REQUIRED BARRIER FREE CLEARANCE BENEATH LAVATORY
TR-08	ACCESSIBLE SOAP DISPENSER
TR-09	24"x24" BLIND HUNG ACCESSIBLE WALL MOUNTED MIRROR PER ELEVATIONS
TR-10	ACCESSIBLE WALL MOUNTED PAPER TOWEL DISPENSER
TR-11	PROVIDE AND INSTALL RESTROOM IDENTIFICATION SIGNAGE PER DETAIL TBD
TR-13	56"x60" CLEAR FLOOR SPACE FOR ACCESS TO WATER CLOSET
TR-14	30"x48" CLEAR FLOOR SPACE FOR ACCESS TO LAVATORY
TR-16	FLOOR DRAIN, SLOPE FLOOR TO DRAIN
TR-17	5'-0" DIA. TURNING CIRCLE FOR BARRIER FREE FACILITIES. DOOR SWING MAY ENCROACH INTO CLEAR TURNING CIRCLE 12" MAX
TR-18	12"W x15"D LOCKER
TR-19	3'6" X 1'8" LOCKER BENCH
TR-20	4' X 3' CLEAR FLOOR SPACE FOR ACCESS TO BENCH
TR-21	3' X 3' ADA SHOWER



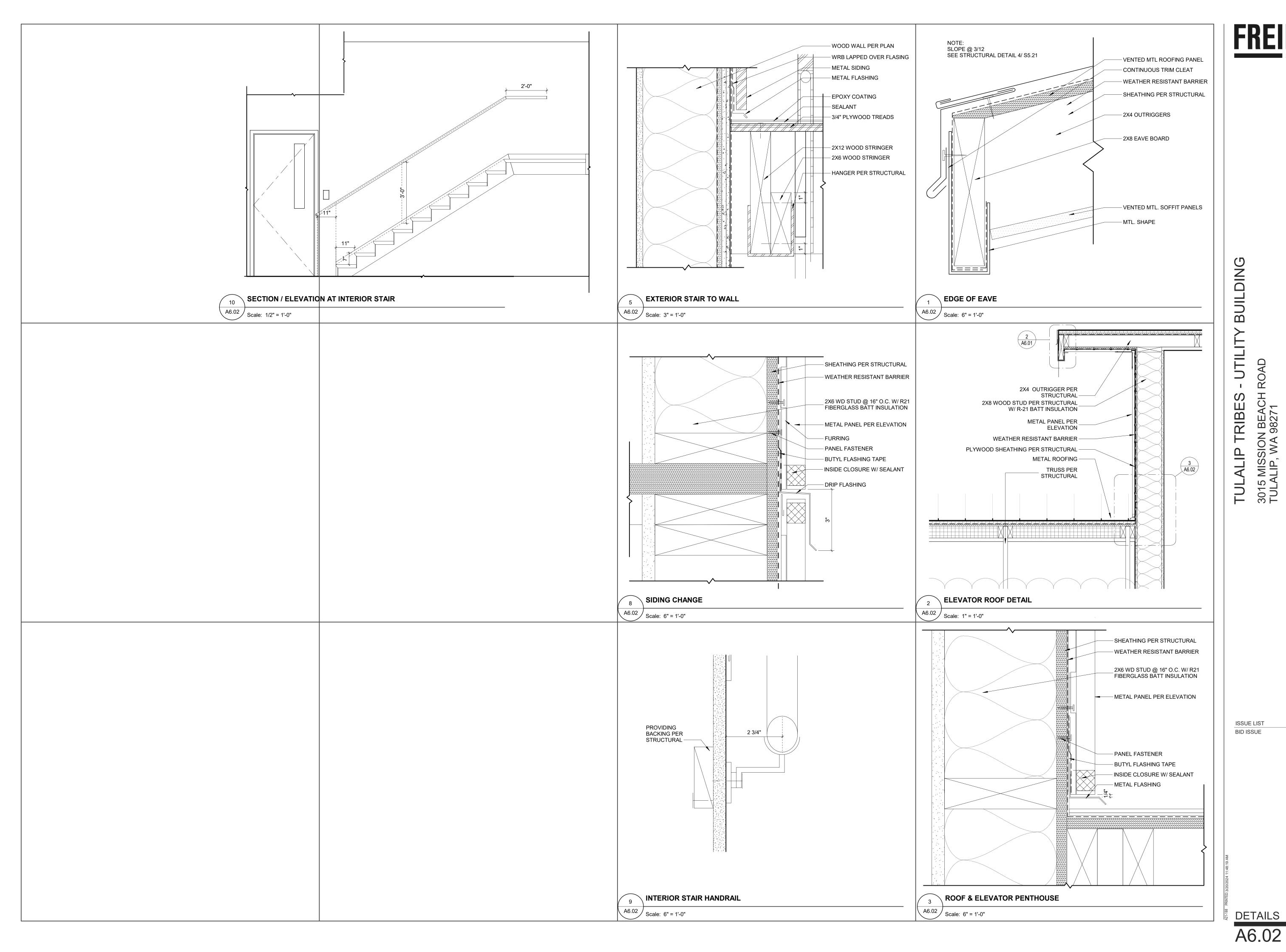
TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271

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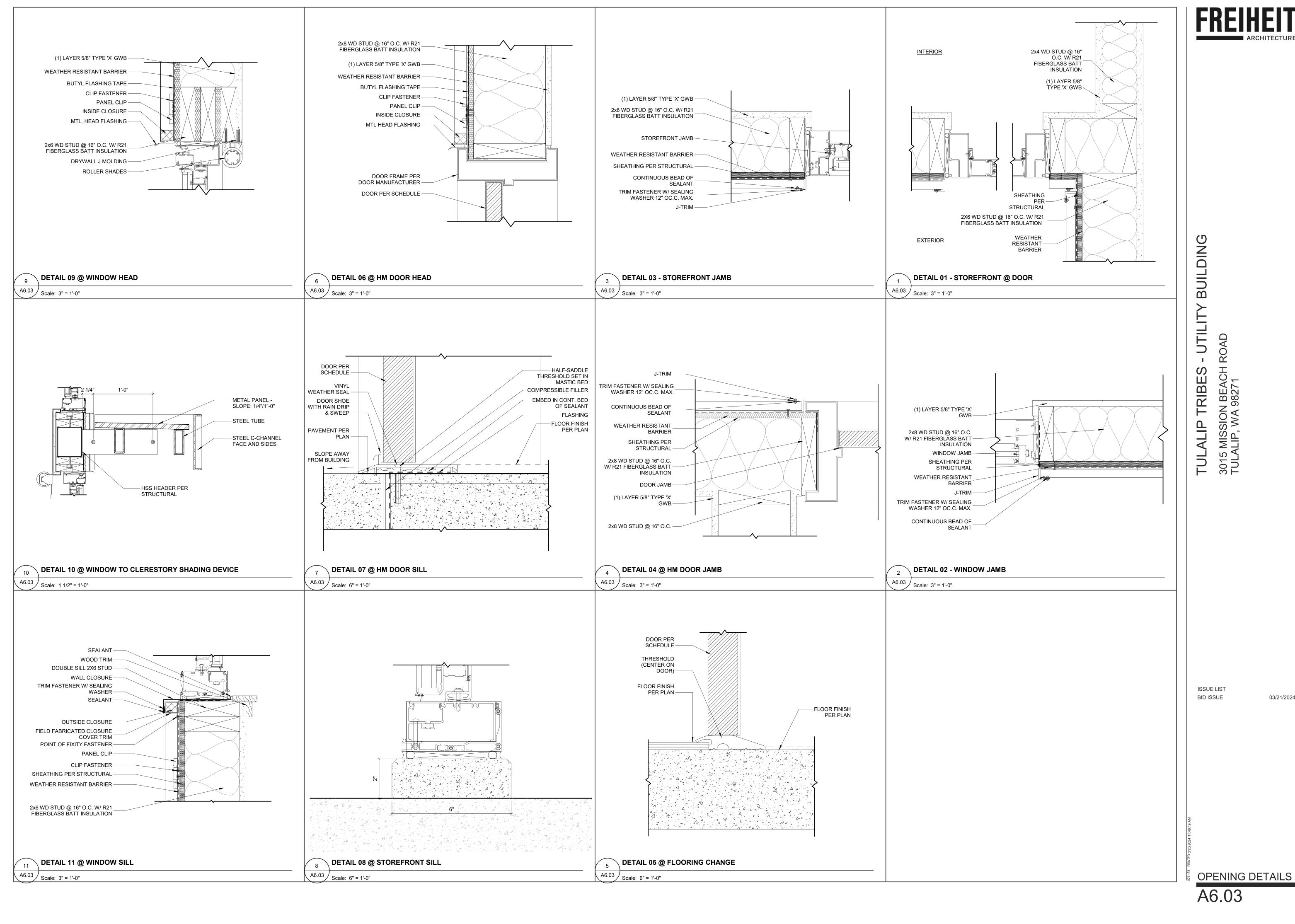






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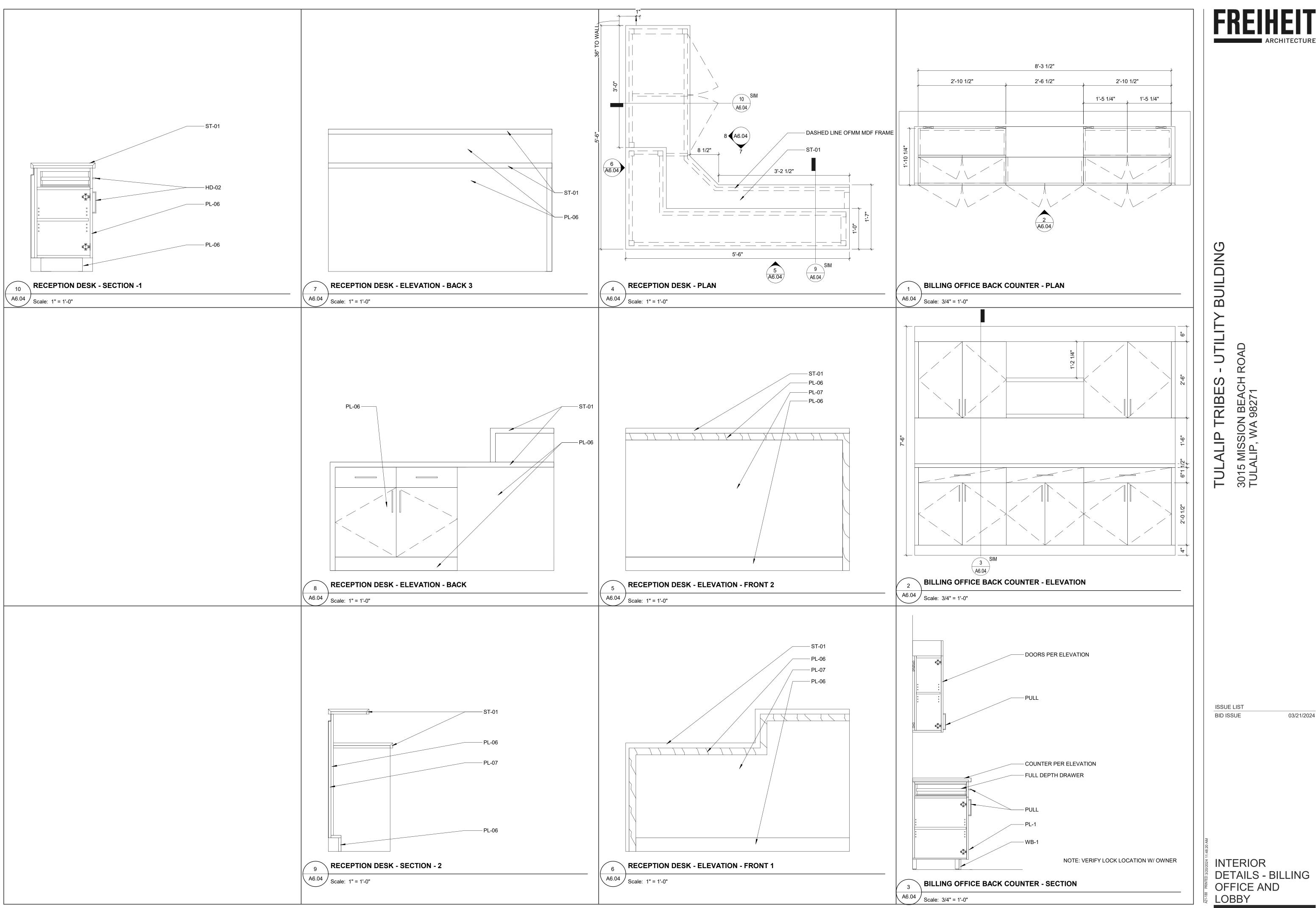
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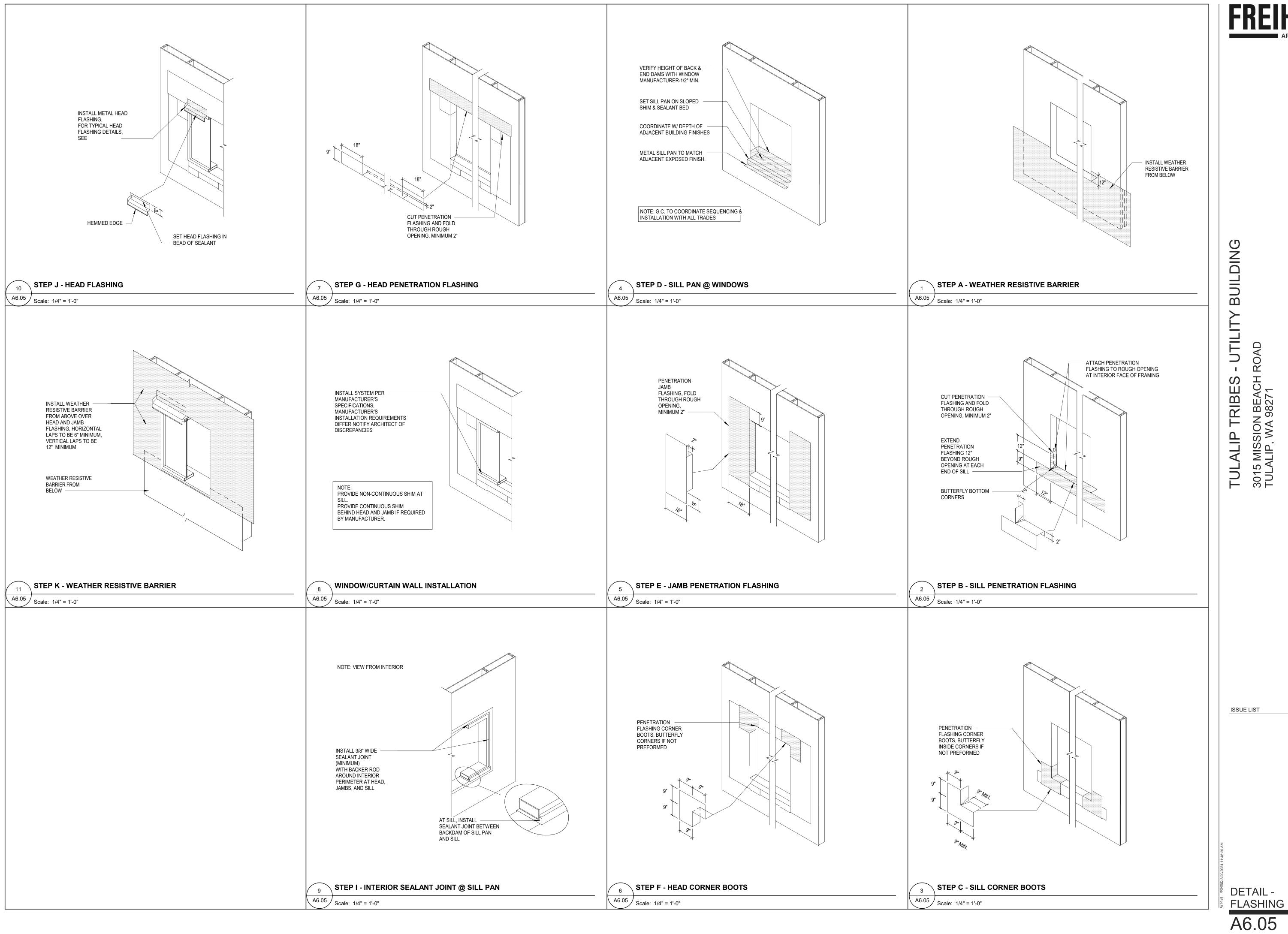




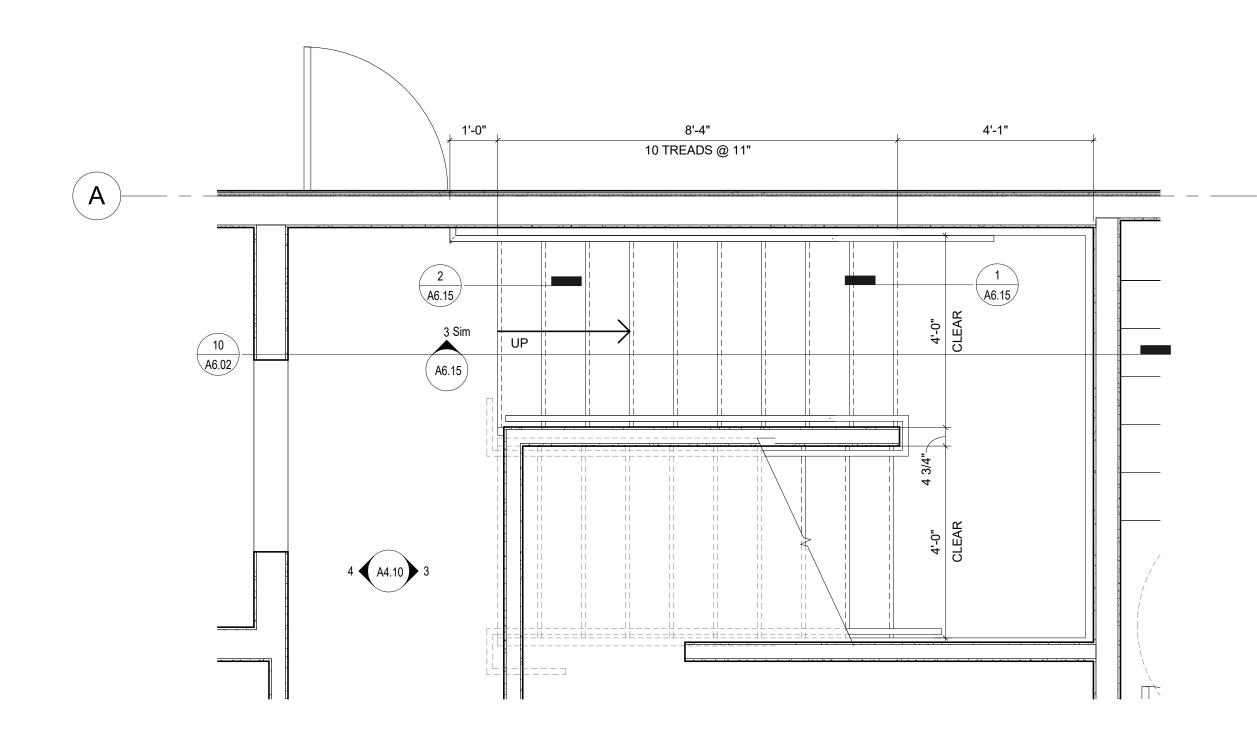
A6.04

03/21/2024

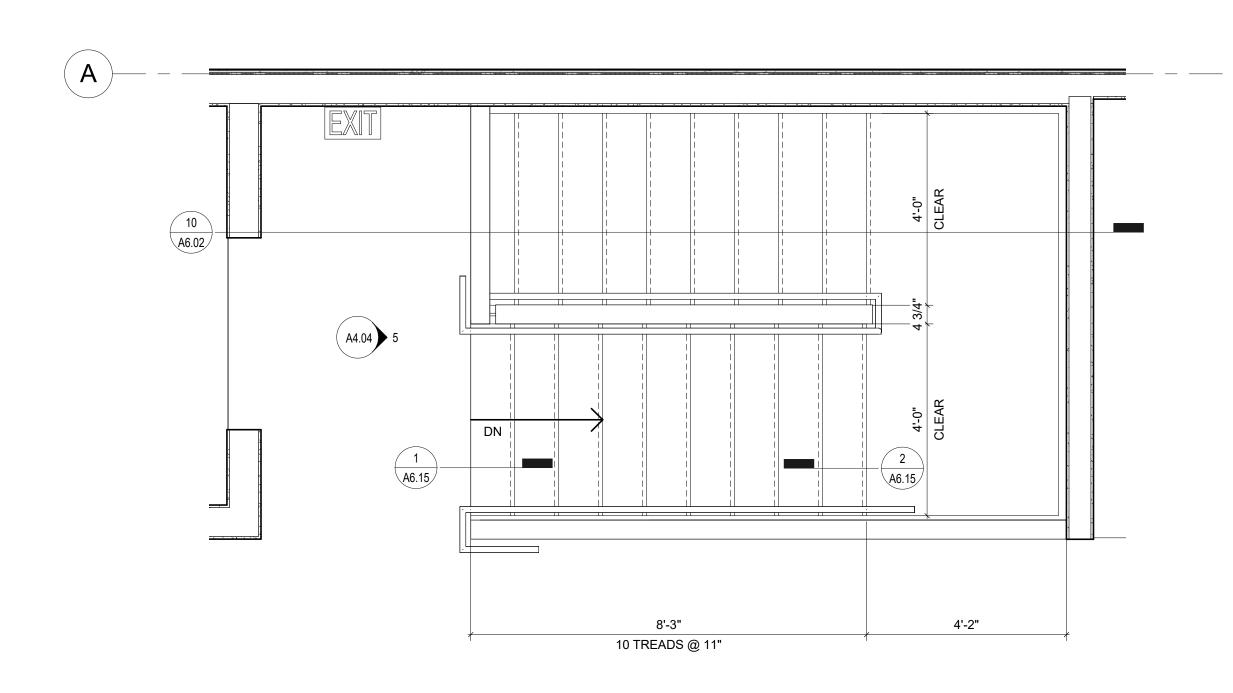
ROAD 3015 MISSION BEACH TULALIP, WA 98271

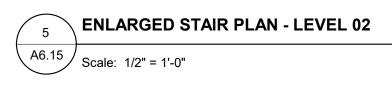


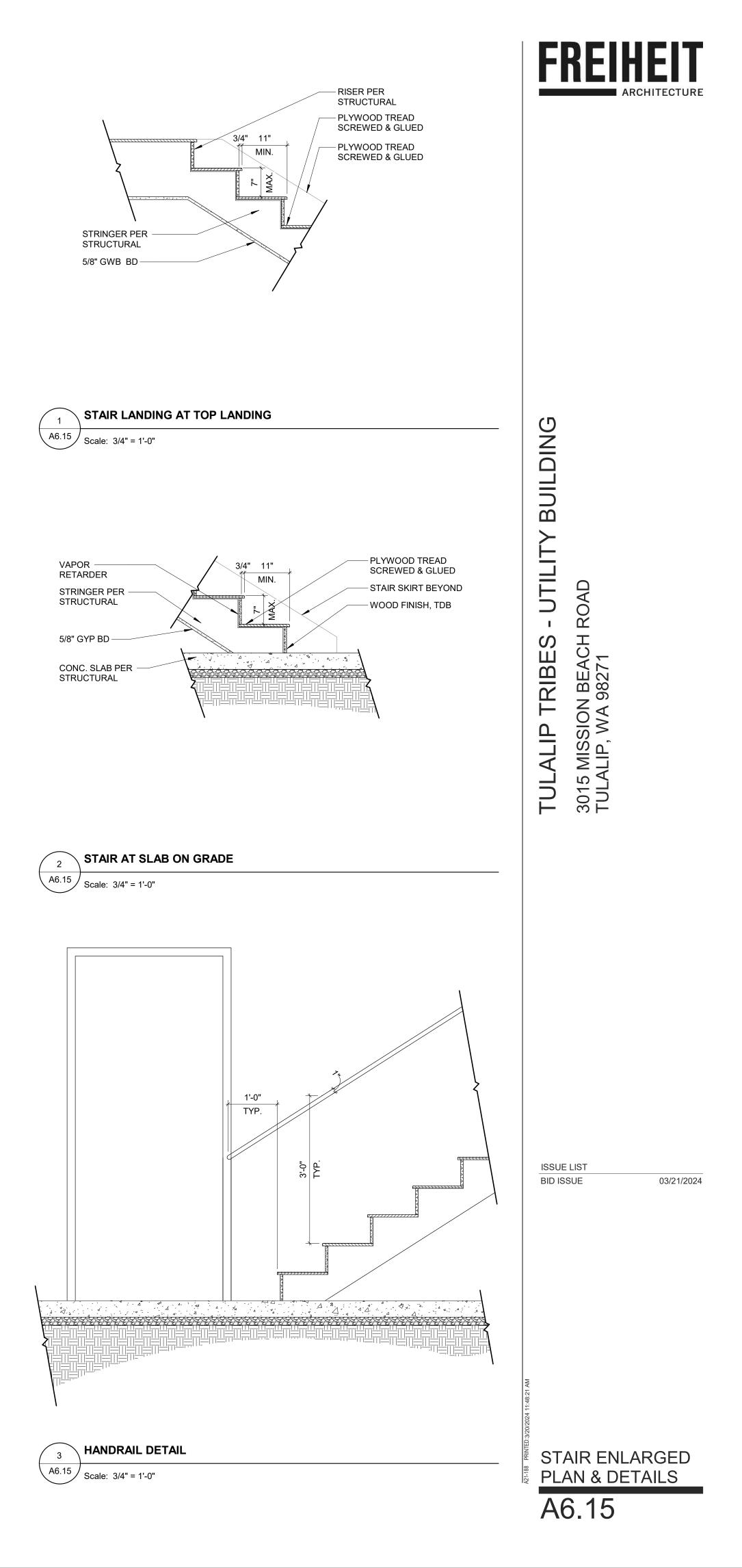


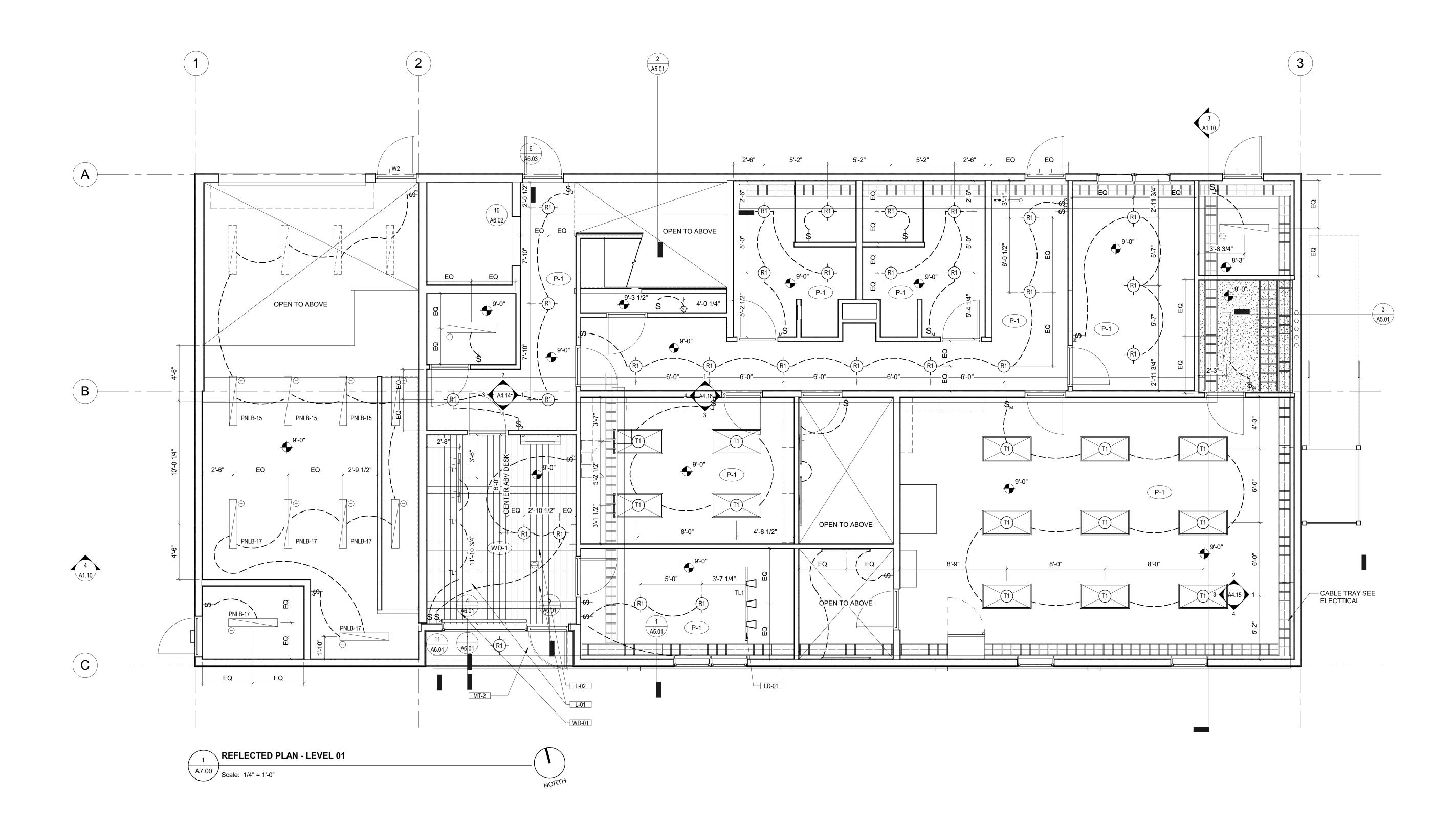


4 ENLARGED STAIR PLAN - LEVEL 01 A6.15 Scale: 1/2" = 1'-0"









GENERAL NOTES - REFLECTED CEILING PLAN

1. HVAC NOISE CRITERIA:

- 1. DISCHARGE SOUND BASED ON FOLLOWING ARI 885 ATTENUATION CONDITIONS:
- A. ENVIRONMENTAL EFFECT: PER <u>ARI 885</u> B. ROOM EFFECT: 3000CU. FT. SPACE, 10 FT. FROM SOURCE.
- 1) 0.5" SP: NC 21
- 2) 1.0 SP: NC 25
- 2. RADIATED SOUND A. BASED ON THE FOLLOWING ARI 885 ATTENUATION CONDITIONS:
- 1) ENVIRONMENTAL EFFECT: PER ARI 885
- 2) DUCT LINING: 5 FT. OF ONE INCH FIBERGLASS 3) END REFLECTION: 8 INCH TERMINATION TO DIFFUSER
- 4) FLEX DUCT: 5 FT.
- B. ROOM EFFECT: 3000 CU. FT. SPACE, 10 FT. FROM SOURCE 1) 0.5" SP: NC 21
- 2. PROVIDE TRAPEZE PIPE HANGERS FOR SUSPENDED PLUMBING PIPE.

3. VERIFY FIELD CONDITIONS AND LOCATIONS OF ALL PLUMBING, MECHANICAL, DUCTS, STRUCTURAL ELEMENTS AND ALL OTHER RELATED ITEMS. INSTALL NEW PLUMBING, MECHANICAL, FANS, DUCTS, CONDUITS, AND OTHER RELATED ITEMS SO AS NOT TO CONFLICT WITH ANY/ALL FIELD CONDITIONS INCLUDING LUMINARIES.

- 4. ALL G.W.B. CEILINGS TO BE FINISHED TO LEVEL 4 PER FA-214.
- 5. LIGHT FIXTURES NOT LOCATED ON PLAN ARE TO BE CENTERED IN CEILING OF ROOM.

6. ALL LAMPS TO HAVE 3500K COLOR TEMPERATURE.

- WITH ONE COVER PLATE U.N.O.

9. LIMIT SWITCH CONTROL TO 80% LOAD OF A 20 AMP CIRCUIT. PER NREC 1513.2

SEPARATELY.

11. NOTIFY ARCHITECT OF ANY CONFLICTS OF LIGHT FIXTURE LOCATIONS WITH MAIN RUNNERS, DUCTS, SPRINKLERS, HVAC, AND/OR EXISTING CONDUIT, PRIOR TO FRAMING FOR LIGHTS. ANY DISCREPANCIES BETWEEN ARCHITECTS PROPOSED CEILING GRID/PANEL LOCATIONS AND ACTUAL FIELD CONDITIONS ARE TO BE CLARIFIED WITH THE ARCHITECT PRIOR TO FRAMING.

12. RIM OF CABLE TRAY TO BE PLACED AT 8'-0", ALLOWING FOR 12" CLEAR BETWEEN TOP OF TRAY AND CEILING.

13. P1 IN FLAT FOR ALL CEILINGS

GENERAL NOTES - DAYLIGHT ZONES

7. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND COVERED FINISHED

8. PROVIDE ADDITIONAL SWITCHING CONTROL REQUIRED BY NREC.

10. WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE INTERIOR LIGHTING SUMMARY ATTACHED

ALL DAYLIGHTED ZONES AND DAYLIGHT ZONE CONTROLS SHALL COMPLY WITH THE 2018 WASHINGTON STATE ENERGY CODE.

PRIMARY DAYLIGHT ZONE: EXTERIOR WINDOW HEAD HEIGHT x WINDOW WIDTH + 2' ON EITHER SIDE. SECONDARY DAYLIGHT ZONE: AREA EQUAL IN SIZE TO THE PRIMARY ZONE.

AUTOMATIC DAYLIGHT SENSING CONTROLS SHALL BE CAPABLE OF REDUCING THE LIGHT OUTPUT OF THE CONTROLLED LUMINAIRES WHILE MAINTAINING A UNIFORM LEVEL OF ILLUMINANCE BY CONTINUOUS DIMMING TO AT LEAST 20% LIGHT OUTPUT.

DAYLIGHT SENSING CONTROLS SHALL CONTROL ONLY LUMINAIRES WITHIN THE DAYLIGHTED AREA.

AUTOMATIC DAYLIGHT SENSING CONTROLS SHALL INCORPORATE TIME-DELAY CIRCUITS TO PREVENT CYCLING OF LIGHT LEVEL CHANGES OF LESS THAN THREE MINUTES.

DAYLIGHT RESPONSIVE CONTROLS SHALL BE CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHTS IN THAT ZONE.

FREIHEIT

BUILDING UTILIT ROAD 3015 MISSION BEACH TULALIP, WA 98271 TRIBES TULALIP

LEGEND - REFLECTED CEILING PLAN

	NEW ACOUSTICAL CEILING TILE GRID		
\$	WALL SWITCH (+48")	-\$\$:
\$ ₀	WALL SWITCH W/ OCCUPANCY MOTION SENSOR (+48")		
\$ ₃	3-WAY WALL SWITCH (+48")		I
\$ _D	WALL SWITCH W/ DIMMER (+48")		Ņ
\$ _T	WALL SWITCH W/ TIMER (+48")		-
\$ _s	WALL SWITCH CONNECTED TO SWITCHED RECEPTACLE (+7" ACH)	د ع د	I
\mathbf{s}_{gd}	WALL SWITCH FOR GARBAGE DISPOSAL (+7" ACH)	\square	I
\$ _M	MASTER SWITCH (LIGHTING RELAY) TO TURN ON/OFF SELECT LIGHTS		I
/~	INDICATES SWITCHING	FXX	I
PT-1	CEILING PAINT FINISH (SEE SCHEDULE)	EXIT	I
	HEIGHT ABOVE FINISHED FLOOR	DII ₽	1
	CABLE TRAY	۲	I
			

\triangleleft	2'x4' RECESSED LIGHT FIXTURE
	SURFACE MOUNTED DOWNLIGHT / DIRECTIONAL DOWNLIGHT
	RECESSED DOWNLIGHT / DIRECTIONAL DOWNLIGHT
)	PENDANT LIGHT FIXTURE
<u>}-</u>	WALL SCONCE
	TRACK LIGHTING
] : _ : _]	UNDER CABINET LIGHTING
	MECHANICAL SUPPLY REGISTER
	MECHANICAL RETURN REGISTER
Q _{XX}	EXHAUST FAN
T	INTERNALLY ILLUMINATED EXIT SIGN
∏ ≯	INTERNALLY ILLUMINATED EXIT SIGN WITH HORN/STROBE
	FIRE SPRINKLER (BIDDER DESIGN)
D	30" VANITY LIGHT
	SUSPENDED LIGHT FIXTURE (PNLB

15, PNLB 17, PNLB 19, PNLB 21)

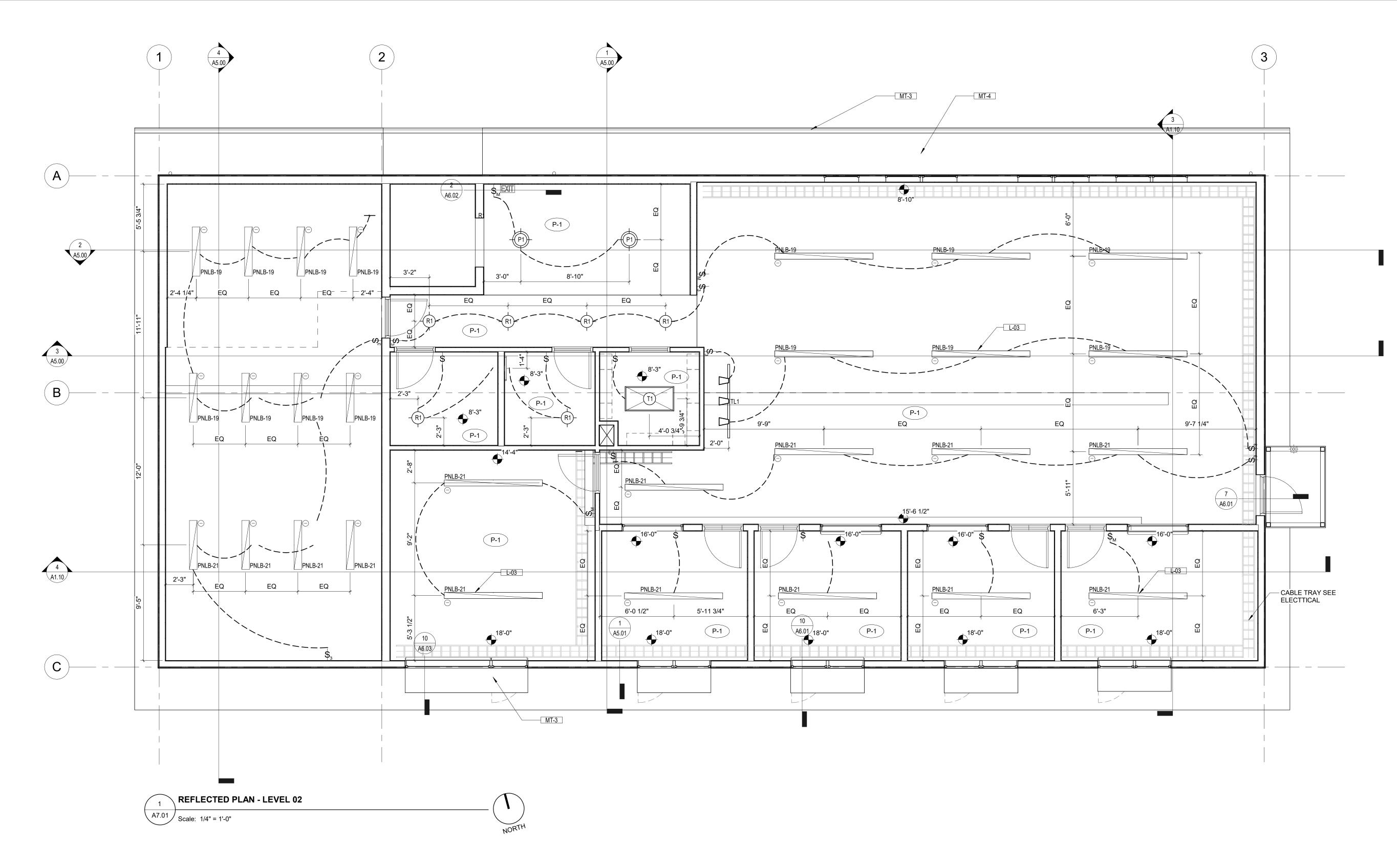


REFLECTED

LEVEL 01

A7.00

CEILING PLAN



LEGEND - REFLECTED CEILING PLAN

				-
	NEW ACOUSTICAL CEILING TILE GRID		2'x4' RECESSED LIGHT FIXTURE	NO
\$	WALL SWITCH (+48")		SURFACE MOUNTED DOWNLIGHT / DIRECTIONAL DOWNLIGHT	FOR ADDITIONAL INFORMATION
\$ o	WALL SWITCH W/ OCCUPANCY MOTION SENSOR (+48")	-∲-/-∲-	RECESSED DOWNLIGHT / DIRECTIONAL DOWNLIGHT	INFOF
\$ ₃	3-WAY WALL SWITCH (+48")	÷	PENDANT LIGHT FIXTURE	ONAL
\$ _D	WALL SWITCH W/ DIMMER (+48")		WALL SCONCE	ILIDO
\$_	WALL SWITCH W/ TIMER (+48")		TRACK LIGHTING	FOR A
\$ _s	WALL SWITCH CONNECTED TO SWITCHED RECEPTACLE (+7" ACH)	دی د::ی	UNDER CABINET LIGHTING	
\$ _{GD}	WALL SWITCH FOR GARBAGE DISPOSAL (+7" ACH)		MECHANICAL SUPPLY REGISTER	LIGHT FIXTURE SCHEDULE
\$ _M	MASTER SWITCH (LIGHTING RELAY) TO TURN ON/OFF SELECT LIGHTS		MECHANICAL RETURN REGISTER	URE (
/\	INDICATES SWITCHING	EXX	EXHAUST FAN	T FIXT
PT-1	CEILING PAINT FINISH (SEE SCHEDULE)	EXIT	INTERNALLY ILLUMINATED EXIT SIGN	
	HEIGHT ABOVE FINISHED FLOOR		INTERNALLY ILLUMINATED EXIT SIGN WITH HORN/STROBE	SEE
	CABLE TRAY	۲	FIRE SPRINKLER (BIDDER DESIGN)	
<u> </u>		······································	30" VANITY LIGHT	

SUSPENDED LIGHT FIXTURE (PNLB 15, PNLB 17, PNLB 19, PNLB 21)



TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271

ISSUE LIST BID ISSUE

REFLECTED

LEVEL 02

A7.01

CEILING PLAN

MISCELLANEOUS ACCESSORIES & HARDWARE SCHEDULE

CABINET DOOR PULLS	MFR: HAFELE STYLE: MODERN ZINC #103.84.003 (96mm CTC) FINISH: BRUSHED NICKEL	HANDLES TO BE INSTALLED PER ORIENTATION ON ELEVATIONS	PLUMBING FIX MOP BASIN	TURES MFR: ZURN STYLE: Z1996 MOP SINK FINISH: STAINLESS STEEL	JANITOR CLOSET
CORNER GUARDS	MFR: ECKSTROM INDUSTRIES, INC STYLE: FULL HEIGHT 1" STAINLESS STEEL CONTACT: GLEN BIRKVOLD (GLEN@ECKSTROMIND.COM)	SEE FINISH PLAN FOR LOCATIONS	WASH-UP SINK	MFR: BOBRICK STYLE: JS-122-T WITH JS-47-TGSA FAUCET AN DRAIN	D J-35-SSF
WIRE GROMMETS	MFR: MOCKETT STYLE: PLASTIC GROMMETS FINISH: TBD	VERIFY LOCATIONS WITH CLIENT	WASHBASIN GROUND	MFR: DURAVIT STYLE: #2350800027 / 2350800025 / 2350800028 WALL-MOUNTED WITH FAUCET DECK	,
IN-WALL SUPPORTS	STYLE: IN-WALL STEEL SUPPORT BRACKETS FINISH: TBD	CUT BACK BRACKETS A MINIMUM OF 6" FROM FRONT FACE OF COUNTERTOPS	SHED		
FIRE CABINET	MFR: LARSEN'S MFG STYLE: SEMI-RECESSED EXTINGUISHER CABINET FINISH: SATIN ANODIZED ALUMINUM	DOOR STYLE: SOLID DIECUT LETTERING COLOR: WHITE DIECUT LETTERING STYLE: VERTICAL	PIT FINISH SAFETY RAIL PIT SAFETY RAIL	MFR: SAFETY RAIL COMPANY LLC STYLE: 4' PIT FINISH SAFETY RAIL FINISH: XXX MFR: SAFETY RAIL COMPANY LLC STYLE: 4' PIT SAFETY RAIL FINISH: XXX	LEVEL 2 SHED NOT FIXED LEVEL 2 SHED NOT FIXED
GRAB BARS	MFR: BOBRICK STYLE: 1 1/2" DIAMETER GRAB BARS #B-6806x36"/#B-6806x42"/#B-6806x18" FINISH: SATIN STAINLESS		CORNER	MFR: SAFETY RAIL COMPANY LLC STYLE: ACCU-FIT KIT 6X6' CORNER FINISH: XXX	LEVEL 2 SHED FIXED
TOILET SEAT COVER DISPENSER	MFR: BOBRICK STYLE: SURFACE MOUNTED DISPENSER #B-221 FINISH: SATIN FINISH		GENERAL	NOTES - ACCESSORIES & HARDV	VARE
TOILET TISSUE DISPENSER	MFR: BOBRICK STYLE: RECESSED MULTI-ROLL DISPENSER #B-6977 FINISH: SATIN FINISH			FINISH HARDWARE FOR COMPLETE WORI ES, WHERE LISTED, ARE FOR THE CONTRA L COUNTS.	
PAPER TOWEL DISPENSER	MFR: BOBRICK STYLE: DISPENSER #B-35903 FINISH: SATIN FINISH		PROVIDE SU 3. KEYS & K	RE SHALL BE SUPPLIED BY RECOGNIZED E JBMITTAL FOR APPROVAL. EYING: LOCKS TO BE KEYED ALIKE PER RC	
PAPER TOWEL DISPENSER	MFR: BOBRICK STYLE: SURFACE MOUNTED DISPENSER #B-2620 FINISH: SATIN FINISH		4. ALL HARE 5. PROVIDE	L CABINETS. WARE AND ACCESSORIES TO BE INSTALL IN-WALL BACKING AS REQUIRED FOR ALL	
WC COAT HOOKS	MFR: BOBRICK STYLE: B-985	MOUNT HOOKS PER ADA, UNO PROVIDE IN-WALL BACKING AS NEEDED VERIFY EXACT LOCATIONS WITH CLIENT	AND HARDV	VARE.	
MIRROR	MFR: BOBRICK STYLE: B-165-1836 SIZE: SEE ELEVATIONS	INSTALL WITH THIN BRUSHED NICKEL J-CHANNEL AT BOTTOM AND METAL CLIPS AT TOP			
PLAM SPLASH GUARD TRIM	MFR: EB BRADLY STYLE: FUTURA INDUSTRIES ALUMINUM TRIM (OR EQUAL); TOP & ENDS: #FU-TM81-BA / INSIDE CORNERS: #FU-TM91-BA				
WASTE RECEPTACLE	MFR: BOBRICK STYLE: B-3644				
DECK-MOUNTE SOAP DISPENSOR	EDMFR: BOBRICK STYLE: B-822				
WALL-MOUNTE SOAP DISPENSOR	EDMFR: BOBRICK				
SANITARY NAPKIN DISPOSAL UNIT	MFR: BOBRICK				
TOWEL HOOK	MFR: BOBRICK	<u> </u>			
SHOWER CURTAIN ROD	MFR: BOBRICK				
SHOWER CURTAIN	MFR: BOBRICK				
SHOWER CURTAIN HOOKS	MFR: BOBRICK				
UNDER LAVATORY GUARD	MFR: BOBRICK				
UTILITY SHELF	MFR: BOBRICK				
MOP AND BROOM HOLDER	MFR: BOBRICK STYLE: B-223X36				
PAPER TOWEL DISPENSER	MFR: KIMBERLEY CLARK STYLE: IN-SIGHT ELECT-MATIC HRT				

FINISH SCHEDULE

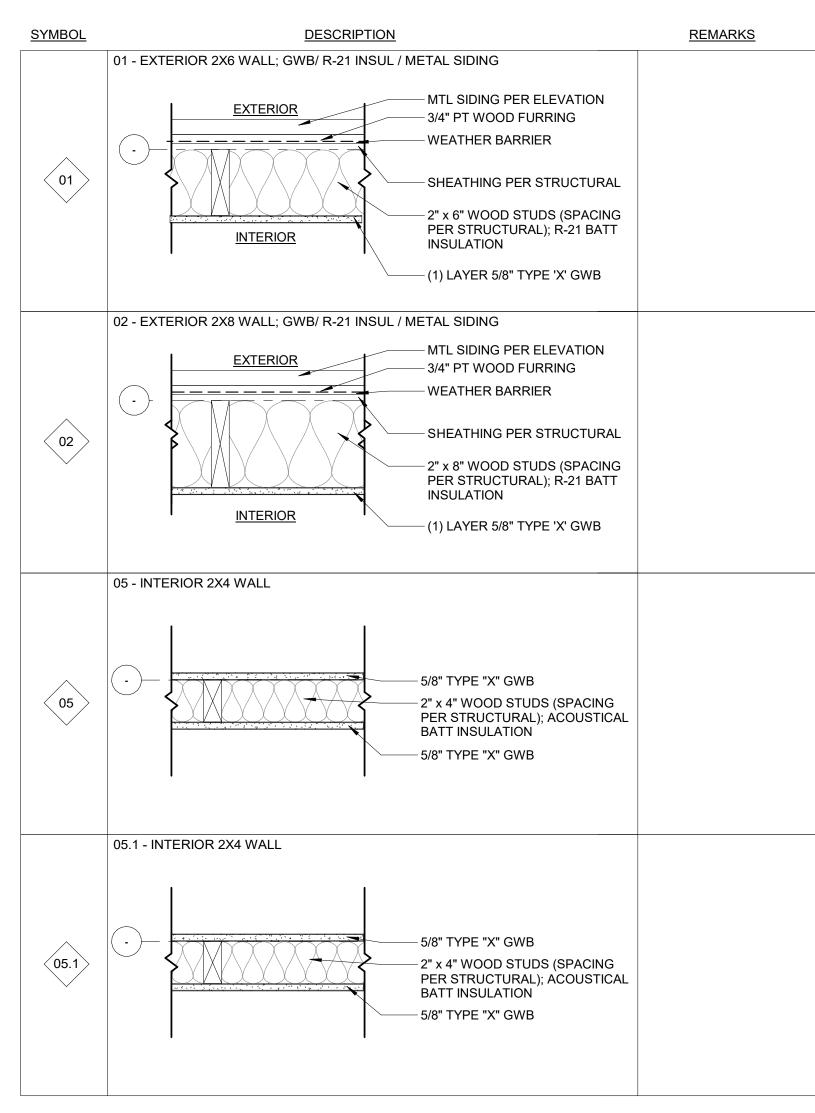
ACT-1 METAL MT-1 MT-2	MFR: ARMSTRONG COMMERCIAL CEILINGS STYLE: CIRRUS 580 PRECLUDE. XL 15/16" SUSPENSION SYSTEM (OR EQUAL), CLASS A COLOR: WHITE MFR: AEP SPAN STYLE: FLEX SERIES	EDGE: ANGLED TANGULAR	FL-01	MFR: MOHAWK MODEL: LARGE AND LOCAL FINISH: 855 BLY	LVT PLANK FLOORING ALL AREAS
MT-1					
MT-2	COLOR: LEAF GREEN	INSTALL PER MFR RECOMMENDATIONS	FL-02	MFR: ROPPE MODEL: RUBBER TREAD #95 HAMMERED FINISH: 193-BLACK BROWN	RUBBER SHEET FLOORING STAIRS STAIR NOSING TO MATCH
	CONTACT: JEFFERY MEDEIROS MFR: AEP SPAN STYLE: FLEX SERIES	LEVEL 2 EXTERIOR	FL-03	MFR: PER GC COLOR: DCOF OF. 42 OR GREATER FINISH: ANTI-SLIP, HONED FINISH	SEALED CONCRETE LAB, CORRIDOR, LOCKERS
MT-3	COLOR: TO BE SELECTED FROM MFR STANDARD COLORS CONTACT: JEFFERY MEDEIROS MFR: AEP SPAN STYLE: DESIGN SPAN	LEVEL 2 EXTERIOR	FL-04	MFR: PER GC COLOR: CHARCOAL GREY; OR SIMILAR FINISH: ANTI-SLIP	EPOXY FLOORING SHED LEVEL 2
	COLOR: MIDNIGHT BRONZE CONTACT: JEFFERY MEDEIROS		FL-05	MFR: 304 S/S INTEGTRATED MODEL: 16 GA. TOP AND 4" SPLASH	EPOXY FLOORING SHED LEVEL 2
MT-4	MFR: AEP SPAN STYLE: FLUSH PANEL COLOR: TO BE SELECTED FROM MFR STANDARD COLORS CONTACT: JEFFERY MEDEIROS	LEVEL 2 EXTERIOR	FL-06	MFR: INTERFACE MODEL: OPEN AIR 410	CARPET TILE OFFICE LEVEL 2
PAINT					
PT-01	MFR: BENJAMIN MOORE COLOR: OC-26 - SILVER SATIN FINISH: MAT @ CEILING, EGGSHELL @ WALLS	WALL AND CEILING PAINT ALL AREAS ONE COAT PRIMER, TWO COATS PAINT	DECORATIVE		
PT-02	MFR: SHERWIN WILLIAMS COLOR: SW6991 - BLACK MAGIC FINISH: SEMI-GLOSS @ DOORS & TRIM & WET AREAS	DOOR PAINT ALL AREAS (UON) ONE COAT PRIMER, TWO COATS PAINT	L-01	MFR: TECH LIGHTING MODEL: BURK HEAD 700MORK9303506B FINISH: BLACK/ SATIN NICKEL CONTACT: SEA-TAC LIGHTING - 206-575-6865	DECORATIVE TRACKHEAD / SYSTEM LOBBY / BILLING ROOM REQUIRED COMPONENTS: MONORAIL #700MOA / ADJ. STANDOFF #700MOSADJ / 4 CANOPY #700MOP4C02 / END CAPS 700MOCCAP/ FLEX CONNECTORS
PT-03	MFR: BENJAMIN MOORE COLOR: HC-158 NEWBURG GREEN FINISH: EGGSHELL @ WALLS	ACCENT WALL PAINT OFFICES ONE COAT PRIMER, TWO COATS PAINT	L-02	MFR: TECH LIGHTING MODEL: WINDSOR PENDANT 700MOWDSBS-LED930 FINISH: BLACK / SATIN NICKEL	#700MOCCAP/ FLEX CONNECTORS #700MOCFXH DECORATIVE TRACK PENDANT LOBBY / BILLING ROOM MONOPOINT SYSTEM
PLASTIC LAM				CONTACT: SEA-TAC LIGHTING - 206-575-6865	
PL-1	MFR: VENEEER ART STYLE: 974-RG BROWN ANNIGRE FINISH: RIFT GRAIN FINISH CONTACT: JOAN ASKEN - 425-283-2228	CABINET AND DOOR LAMINATE LOBBY / BILLING ROOM QUARTER CUT / SLIP MATCH, 8' X 10' SHEETS	L-03	MFR: ALCON MODEL: ADJUSTABLE LED TUBE PENDANT #12100-R2-PD12-I-8-35K-010-BK-AQC8-5-9 FINISH: BLACK CONTACT: CUSTOMER SERVICE - 310-733-1248	ADJUSTABLE TUBE LIGHT PENDANT 2ND FLOOR OFFICES ADD: EM10 FOR EMERGENCY BACKUP OR OS FOR OCCUPANCY SENSOR
PL-2	MFR: PIONITE COLOR: WHITE FINISH: FRL SUEDE - FS587 CONTACT: SAMANTHA MOON - 360-710-3787	FRL CORRIDOR AND ROOM WALLS 1ST LEVEL	L-04	MFR: SONNOMAN MODEL: FINO LED BATH BAR #3773.25 FINISH: SATIN BLACK CONTACT: SEA-TAC LIGHTING - 206-575-6865	BATH VANITY SCONCE ALL RESTROOMS
PL-4	MFR: PER GC FINISH: WHITE SMOOTH, FRP, 4' X 8' SHEETS, CLASS A CONTACT: SAMANTHA MOON - 360-710-3787		WALL COVER WC-01	MFR: LAMIN-ART STYLE: RIFT-GRAIN FINISH	ACCENT WALL COVERING OPEN OFFICE
PL-5	MFR: WILSONART DESIGNER WHITE STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH			COLOR: 974-RG BROWN ANNIRGRE	STRAIGHT HANG/ STRAIGHT MATCH
PL-6	MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING				
PL-7	MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING				
STONE					
ST-1	MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870	QUARTZ COUNTERTOP LOBBY / BILLING ROOM			
RESILIENT BA	ASE				
RB-1	MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL)			
TILE					
TL-1	MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394	FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY			
TL-2	MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24" CONTACT: LISA ANDERSON - 206-730-3394	WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY			
	D VENEER SCHEDULE				
WD-1	MFR: REAL CEDAR COLOR: T&G SMOOTH V-JT FACE FINISH: CEDAR PANELING - KILN DRIED #WRCLA, CLASS A FINISH CONTACT: REAL CEDAR - 877-316-8845	WESTERN RED CEDAR LOBBY HORIZONTAL INSTALLATION			
WD-2	MFR: TABU COLOR: SATIN CLEAR COAT FINISH: MN.28.021 CONTACT: MATERIALS INC 201-968-0101	FRP RECEPTION 2 COATS POLYURETHANE TOP COAT, SATIN FINISH			
DECORATIVE	HARDWARE				
HD-01	MFR: AMEROCK REVOLVE 3-3/4" COLOR: CABINET PULL IN SATIN NICKEL				
HD-02	MFR: AMEROCK REVOLVE 3-3/4" COLOR: CABINET PULL IN MATTE BLACK				



BUILDING υτιμτγ ROAD 3015 MISSION BEACH TULALIP, WA 98271 **TULALIP TRIBES**

ISSUE LIST BID ISSUE

SCHEDULES A9.00



RATING	<u>SYMBOL</u>	DESCRIPTION	<u>REMARKS</u>	RATING
NON- RATED	07	07 - INTERIOR 2X6 WALL 		NON- RATED
NON- RATED	08	08 - INTERIOR 2X4 WALL; PARTIAL HEIGHT 	PARTIAL-HEIGHT	NON- RATED
NON-RATED	09	09 - INTERIOR FURRING 2X4 WALL 		NON- RATED
1-HOUR	10	10 - MTL. GUARDRAIL - 42" H. 1 1/2" MTL GUADRAIL 1 1/2" MTL GUADRAIL 1 1/2" MTL GUADRAIL	REMOVABLE	NON- RATED
	11.1	11.1 - INTERIOR 2X8 WALL; 1-HOUR RATED 		1HR- RATED

WALL SCHEDULE GENERAL NOTES

1. WALL TAGS ARE NOTED ON THE FLOOR PLANS AND SECTIONS.

2. FIRE RATED ASSEMBLIES ARE BASED ON IRC, UL, OR US GYPSUM ASSOC. (GA) TEST DATA & ARE TO BE CONSTRUCTED IN ACCORDANCE W/ THE REQUIREMENTS OF THE TESTING AGENCIES. REFER TO SPECIFIC TEST REPORTS INDICATED FOR REQ'D COMPONENTS & ASSEMBLY. EXTENTS OF ASSEMBLIES ARE SHOWN ON THE PLANS. FIRE RATED PARTITIONS FORM A SEPARATION THAT SHALL BE CONTINUOUS. FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT COLUMNS, WALL TRANSITIONS, OR OTHER OBSTRUCTIONS. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRESTOPPED OR PROVIDED W/ APPROVED SMOKE AND/OR FIRE DAMPERS.

3. SUBSTITUTE WATER RESISTANT GWB AT BATHROOMS AND AT SIMILAR "WET" USES.

4. SUBSTITUTE CEMENT BACKER BOARD AT TILE FINISHES WHERE PERMITTED AT LISTED ASSEMBLIES.

5. BLOCKING IS REQ'D AT THE FOLLOWING LOCATIONS: CASEWORK, SHELVING, AND PANELING; ACCESSORIES AND EQUIPMENT; DOOR HARDWARE; BATHROOM ACCESSORIES; AND OTHER LOCATIONS WHERE REQ'D PER MANUFACTURER'S RECOMMENDATIONS OR INDUSTRY STANDARDS.

6. OUTLET BOXES ON OPPOSITE SIDES OF PARTITIONS TO BE SPACED APART MIN. 24".

7. FASTENERS FOR GYPSUM SHEATHING OVER WOOD SHEATHING AT SHEARWALLS NEEDS TO INCREASE BY 1/2". SEE STRUCUTRAL DRAWINGS FOR MORE DETAIL.

WALL ACOUSTICAL GENERAL NOTES

1. PARTITIONS SURROUNDING RESTROOM & LOCKER ROOMS SHALL BE SEALED AT FLOOR AND CEILING PLATES WITH A RESILIENT ACOUSTICAL SEALANT.

2. CAULK ALL PIPE, CONDUIT, DUCT OR SIMILAR PENETRATIONS THROUGH PARTITIONS WITH RESILIENT SEALANT.

3. WHERE TWO OR MORE LAYERS OR GWB ARE USED, VERTICAL, AND HORIZONTAL JOINTS SHALL BE STAGGERED.

4. ACOUSTICAL INSULATION SHALL BE UN-FACED AND SECURED TO STRUCTURE TO PREVENT SAGGING.



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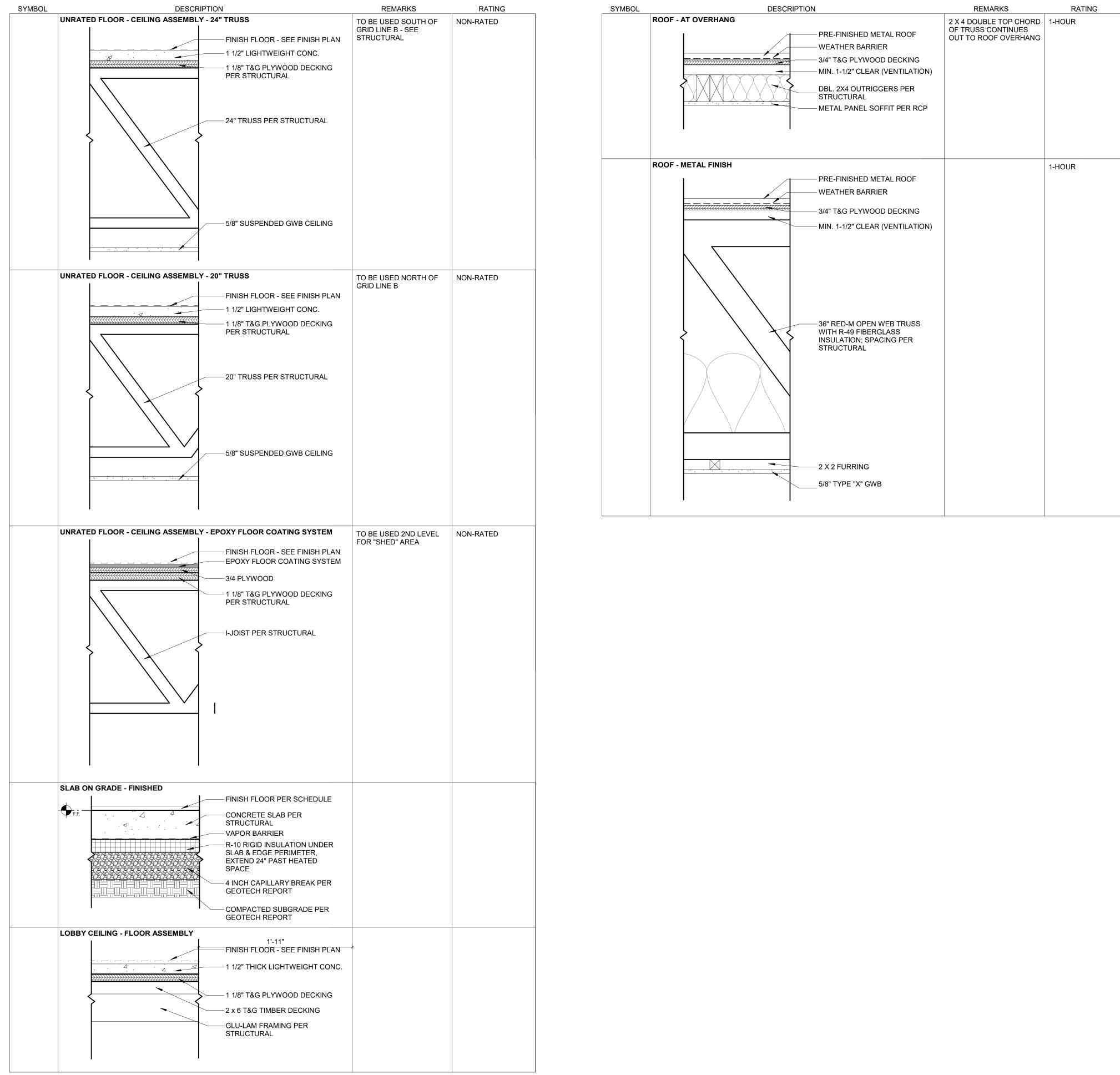
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ISSUE LIST BID ISSUE

WALL SCHEDULE

A9.10

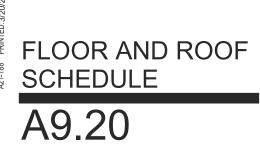
FLOOR SCHEDULE





BUILDING \succ UTILIT ROAD 3015 MISSION BEACH TULALIP, WA 98271 S TRIBE ALIP TUL

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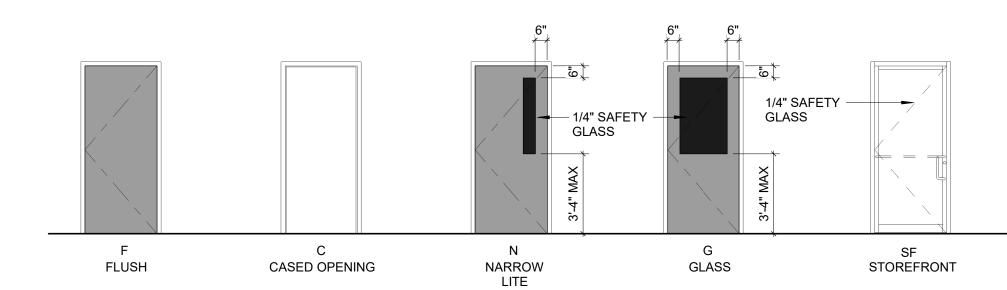


DOOR SCHEDULE

100A LOBBY RHR 1 3-0" 7-0" 13/4" ALUM KYNAR/GL ALUM KYNAR 100B LOBBY LH 1 3-0" 7-0" 13/4" WD STN/LAQ HM PT 101 BILING LH 1 3-0" 7-0" 13/4" WD PT HM PT 102 BREARCOM LH 1 3-0" 7-0" 13/4" HM PT HM PT 103 STORAGE LH 1 3-0" 7-0" 13/4" HM PT HM PT 104 CLOSET RH 1 3-0" 7-0" 13/4" HM PT HM PT 106 CORNDOR RH 1 3-0" 7-0" 13/4" HM PT HM PT 106 CORRIDOR RH 1 3-		ROOM NAME	DOOR TYPE	LEAF QUANTIT Y	WIDTH	HEIGHT	THK.	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FIRE RATING
	100A	LOBBY	RHR	1	3'-0"	7'-0"	1 3/4"	ALUM	KYNAR/GI	ALUM	KYNAR	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	101		LH	1	3'-0"	7'-0"	1 3/4"	WD		НМ	PT	
IDS STORAGE I 3-0" 7-0" 1 3/4" HM PI HM PI HM PI - 104 JANTOR CLOSET RH 1 3'0" 7'0" 1 3/4" HM PI HM PI - - 105 LABORATOR CLOSET RH 1 3'0" 7'0" 1 3/4" HM PT HM PT - 106 DATA RHR 1 3'0" 7'0" 1 3/4" HM PT HM PT - 107 ELC. LHR 1 3'0" 7'0" 1 3/4" HM PT HM PT - 108 MDROOM RH 1 3'0" 7'0" 1 3/4" HM PT HM PT - 110 CORRIDOR RH 1 3'0" 7'0" 1 3/4" HM PT HM PT - - - 1111 MCKER RM RI	102	BREAKROOM	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT	НМ	PT	
IDB CLOSET INM PI HM PI HM PI 105 LABORATOR LH 1 3-0" 7-0" 13/4" HM PT HM PT 106 DATA RHR 1 3-0" 7-0" 13/4" HM PT HM PT 107 ELC. LHR 1 3-0" 7-0" 13/4" HM PT HM PT 108 CORIDOR RH 1 3-0" 7-0" 13/4" HM PT HM PT 108 CORIDOR RH 1 3-0" 7-0" 13/4" HM PT HM PT 111 WOMENS RH 1 3-0" 7-0" 13/4" HM PT HM PT 111 S-0" 7-0" 13/4" HM PT HM PT -	103		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
100 y 1 3-0 7-0 1 3/4 HM P1 HM P1 106 DATA RHR 1 3-0" 7-0" 1 3/4" HM PT HM PT 107 ELEC. LHR 1 3-0" 7-0" 1 3/4" HM PT HM PT 108 CORRIDOR RH 1 3-0" 7-0" 1 3/4" HM PT HM PT 109 MUD ROOM HR 1 3-0" 7-0" 1 3/4" HM PT HM PT 110 CORRIDOR RH 1 3-0" 7-0" 1 3/4" HM PT HM PT 111 WOMENS RH 1 3-0" 7-0" 1 3/4" HM PT HM PT 113 STORAGE LHR 1 3-0" 7-0" 1 3/4"	104		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	105		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
108 CORRIDOR RH 1 3'0" 7'0" 1 3/4" HM PT HM PT 109 MUD ROOM LHR 1 3'0" 7'0" 1 3/4" HM PT HM PT 110 CORRIDOR RH 1 3'0" 7'0" 1 3/4" HM PT HM PT 111 WOMEN'S LOCKER RM RH 1 3'0" 7'0" 1 3/4" HM PT HM PT 112 MEN'S LOCKER RM LH 1 3'0" 7'0" 1 3/4" HM PT HM PT 113 STORAGE LHR 1 3'0" 7'0" 1 3/4" HM PT HM PT 114 HALL RHR 1 3'0" 7'0" 1 3/4" HM PT HM PT 1 1 1 3'0" 7'0"	106	DATA	RHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	107	ELEC.	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	108	CORRIDOR	RH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
111 WOMEN'S LOCKER RM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 112 LOCKER RM LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 113 STORAGE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 114 HALL RHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 114 HALL RHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 115 MACHINE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 116A SIDE SHED LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT	109	MUD ROOM	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	НМ	PT	
111 LOCKER RM 1 3-0" 7-0" 1 3/4" HM PT HM PT HM PT	110	CORRIDOR	RH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
112 LOCKER RM 1 3'0" 7'-0" 1'3/4" HM P1 HM P1 HM P1 113 STORAGE LHR 1 3'0" 7'-0" 13/4" HM PT HM PT 114 HALL RHR 1 3'0" 7'-0" 1'3/4" HM PT HM PT 115 MACHINE RHR 1 3'0" 7'-0" 1'3/4" HM PT HM PT 116A SIDE SHED LHR 1 3'-0" 7'-0" 1'3/4" HM PT HM PT 118 FIRE ROOM LH 1 3'-0" 7'-0" 1'3/4" HM PT HM PT 118 WASHER DBL 2 6'-0" 7'-0" 1'3/4" HM PT HM PT HM	111		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
114 HALL RHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT ELEV. ROOM LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 115 MACHINE ROOM LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 116 SIDE SHED LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 118 FIRE ROM LH 1 3'-0" 7'-0" 1 3/4" HM PT PT 119 WASHER ROOM DBL 2 6'-0" 7'-0" 1 3/4" HM PT HM PT - ROM PT	112		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
ELEV. MACHINE ROOM LHR ROOM 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 116A SIDE SHED LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 116A SIDE SHED LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 118 FIRE ROOM LH 1 3'-0" 7'-0" 1 3/4" HM PT PT 119 WASHER ROOM DBL 2 6'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 204 CONFERENC OFFICE LH 1 3'-0"	113	STORAGE	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
115 MACHINE ROOM 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 116A SIDE SHED LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 118 FIRE ROM LH 1 3'-0" 7'-0" 1 3/4" HM PT 119 WASHER ROOM DBL 2 6'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 202 WOMEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT - HM PT - - - - - - - - - - - -	114	HALL	RHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
118 FIRE ROOM LH 1 3'-0" 7'-0" 1 3/4" HM PT PT 119 WASHER ROOM DBL 2 6'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 <t< td=""><td>115</td><td>MACHINE</td><td>LHR</td><td>1</td><td>3'-0"</td><td>7'-0"</td><td>1 3/4"</td><td>НМ</td><td>PT</td><td>НМ</td><td>PT</td><td></td></t<>	115	MACHINE	LHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
Image: PRESSURE ROOM DBL 2 6'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" - HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1	116A	SIDE SHED	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
119 WASHER ROOM 2 6'-0" 7'-0" 1 3/4" HM PT HM PT 201 MEN'S RR RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" - - HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 204 CONFERENC PERION RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT <t< td=""><td>118</td><td>FIRE ROOM</td><td>LH</td><td>1</td><td>3'-0"</td><td>7'-0"</td><td>1 3/4"</td><td>HM</td><td>PT</td><td></td><td>PT</td><td></td></t<>	118	FIRE ROOM	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT		PT	
202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE LHR 1 3'-0" 7'-0" <	119	WASHER	DBL	2	6'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" - - HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE	201	MEN'S RR	RH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 209 OPEN OFFICE	202	WOMEN'S RR	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	
204 E ROOM 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 OFFICE CE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 209 OPEN OFFICE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT <td>203</td> <td>COPY RM</td> <td>CASED OPNG</td> <td>1</td> <td>3'-0"</td> <td>7'-0"</td> <td>1 3/4"</td> <td>-</td> <td>-</td> <td>HM</td> <td>PT</td> <td></td>	203	COPY RM	CASED OPNG	1	3'-0"	7'-0"	1 3/4"	-	-	HM	PT	
205 OFFICE 1 3'-0" 1''' 1''' HM PT HM PT 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 209 OPEN OFFICE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT	204		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
206 OFFICE 1 3'-0" 1'' 1''' HM PT HM PT HM PT 207 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 208 OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 209 OPEN OFFICE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT	205		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
207 OFFICE 1 3'-0" 1'' 1'' HM PT HM PT 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 209 OPEN OFFICE LHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT	206		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
208 OFFICE 1 3-0 7-0 1 3/4 HM PT HM PT 209 OPEN OFFICE LHR 1 3'-0" 1 3/4" HM PT HM PT	207		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
OFFICE 1 3'-0" 7'-0" 1 3/4" HM P1 HM P1	208		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
210 HALL RHR 1 3'-0" 7'-0" 1 3/4" HM PT HM PT	209		LHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT	
	210	HALL	RHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT	

DOOR TYPES

ALL DOOR AND FRAME MATERIALS TO BE DESIGNATED WITHIN THE DOOR SCHEDULE ALL DOOR WIDTHS AND HEIGHTS TO BE DESIGNATED WITHIN THE DOOR SCHEDULE



HARDWARE GROUP	NOTES	REVISIONS
01	STOREFRONT	
09	NARROW LITE	
08	GLASS	
13	NARROW LITE	
13	FLUSH	
15	FLUSH	
16	NARROW LITE	
09	FLUSH	
06	FLUSH	
17	GLASS	
05	FLUSH	
11	NARROW LITE	
14	FLUSH	
14	FLUSH	
12	FLUSH	
04	FLUSH	
10	FLUSH	
03	NARROW LITE	
00		
14	FLUSH	
14	FLUSH	
	CASED OPENING	
20	NARROW LITE	
21	NARROW LITE	

21	NARROW LITE
21	NARROW LITE
17	NARROW LITE
07	FLUSH
18	NARROW LITE

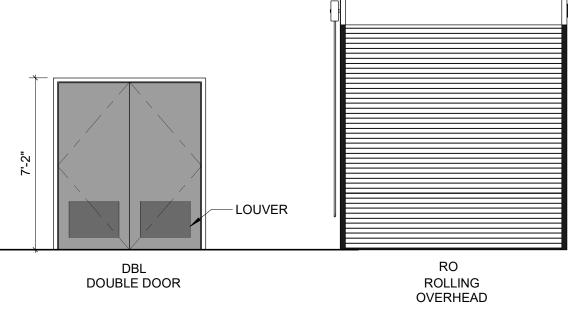
- 1. PROVIDE STANDARD WEIGHT COMMERCIAL DOOR HINGES.
- 2. ALL DOORS WITH CLOSERS TO HAVE BALL BEARING HINGES.

3. PROVIDE ALL NECESSARY ITEMS FOR DOORS, INCLUDING: BUTTS, LATCH & LOCKSETS, CLOSERS, DOOR STOPS AND HOLDERS, KICK PLATES, DOOR SILENCERS, THRESHOLDS, SMOKE GASKET AND WEATHER STRIPPING. REFER TO DOOR SCHEDULE.

4. ALTERNATE MANUFACTURERS MAY BE SELECTED WITH DESIGNER'S APPROVAL.

5. VERIFY ALL HARDWARE MEETS CODE REQUIREMENTS PER JURISDICTION.

6. SEE DIVISION 087100 SPECIFICATIONS FOR DOOR HARDWARE.



1. ALL DOOR HARDWARE TO MEET REQUIREMENTS OF **2018 IBC WITH WASHINGTON STATE AMENDMENTS** AND OWNER'S BUILDING REQUIREMENTS.

2. ALL FIRE-RATED DOORS AND FRAMES SHALL COMPLY WITH THE **2018 IBC WITH** WASHINGTON STATE AMENDMENTS.

3. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ALL LOCKING DOORS TO HAVE SINGLE-ACTION LEVER RELEASE / SELF-RELEASING DEAD BOLTS.

4. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS SHALL HAVE A LEVER OR OTHER SHAPE TO PERMIT OPERATION BY WRIST OR ARM PRESSURE AND WILL NO REQUIRE TIGHT GRASPING, PINCHING OR TWISTING TO OPERATE.

5. DOOR THRESHOLD SHALL NOT EXCEED 1/2" IN HEIGHT.

6. HARDWARE TO MATCH BUILDING STANDARD TYPE AND FINISH.

7. MAXIMUM DOOR OPENING PRESSURES ARE LIMITED TO 8.5 LBS AT EXTERIOR DOORS AND 5.0 LBS AT INTERIOR DOORS.

8. VERIFY ALL DOOR SWINGS, HARDWARE, AND KEYING REQUIREMENTS. SUBMIT KEYING SCHEDULE AND HARDWARE SPECS FOR DESIGNER APPROVAL.

9. PROVIDE ACCESSIBLE RESTROOM SIGNAGE W/ TACTILE CHARACTERS. SIGNAGE SHALL BE INSTALLED 48" - 60" ABOVE FINISHED FLOOR PER CODE. RESTROOM SIGNAGE SHALL COMPLY WITH <u>2018 IBC WITH WASHINGTON STATE AMENDMENTS</u> AND ICC/ANSI. <u>SEE DETAIL XX / XX.XX</u>

10. MAIN EXTERIOR DOOR OR DOORS TO HAVE A READILY VISIBLE URABLE SIGN POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WIHEN BUILDING IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.

11. ALL GLAZING IN DOORS AND RELITES TO BE TEMPERED GLASS AND SHALL MEET THE SAFETY GLAZING REQUIREMENT OF THE **2018 IBC WITH WASHINGTON STATE AMENDMENTS** AND OWNER'S BUILDING REQUIREMENTS.

12. PROVIDE 1/4" MAXIMUM CLEARANCE BETWEEN DOOR AND FLOOR FINISH MATERIAL.

13. NEW WOOD DOORS AND TRIM TO BE STAINED PER FINISH SCHEDULE.

14. NEW PAINT-GRADE DOORS AND PAINT-GRADE POPLAR TRIM TO BE PAINTED WITH XX-XX LATEX ENAMEL IN A SEMI-GLOSS FINISH.

15. NEW METAL DOORS AND TRIM TO BE PAINTED WITH XX-XX LATEX ENAMEL IN A SEMI-GLOSS FINISH.

16. EXTERIOR DOORS TO COMPLY WITH PRESCRIPTIVE VALUES OF APPENDIX A, 2018 WSEC FOR COMMERCIAL BUILDINGS.

DOOR HARDWARE

- HS-1 (SINGLE OCCUPANT TOILET)
- 1 1/2 PAIR BUTT HINGES
- 1 SURFACE MOUNTED CLOSER 1 LEVER LATCHSET (PRIVACY FUNCTION)
- 1 DOOR STOP
- 1 CLOSER 1 SET SEALS
- 1 AUTOMATIC ACOUSTICAL DOOR BOTTOM
- HS-2 (MULTIPLE OCCUPANT TOILET) 1 1/2 PAIR BUTT HINGES
- 1 SURFACE MOUNTED OVERHEAD CLOSER
- 1 PUSH TRIM 1 PULL TRIM
- 1 SET SEALS
- 1 DOOR STOP
- 1 KICK PLATE
- HS-3 (OFFICE) 1 1/2 PAIR BUTT HINGES
- 1 SURFACE MOUNTED CLOSER
- 1 LEVER LATCHSET
- 1 SET SEALS 1 DOOR STOP
- 1 KICK PLATE
- HS-4 (EXTERIOR HM DOOR) 1 1/2 PAIR BUTT HINGES
- 1 SURFACE MOUNTED CLOSER
- 1 ELECTRIC LOCKSET (MORTISE) 1 SET WEATHERSTRIPPING
- 1 DOOR SHOE
- 1 THRESHOLD
- 1 DOOR STOP

HS-5 (PAIR STOREFRONT)

- 2 SETS HINGES (OFFSET TOP, (2) INTERMEDIATE MORTISE & BOTTOM PIVOT)(PTH) 1 EA CONCEALED OVERHEAD CLOSER WITH STOP
- 1 EA ELECTRIC EXIT DEVICE (CONCEALED VERTICAL ROD TYPE)
- 1 EA CYLINDER
- 1 EA PULL TRIM
- 1 LOW ENERGY DOOR OPERATOR (ONE LEAF ONLY) W/ WIRE ACTIVATOR DEVICE 1 SET WEATHERSTRIPPING INCLUDE MEETING STILE
- 1 THRESHOLD 1 CARD READER
- 1 MOUNTING POST

HS-6 (SINGLE STOREFRONT)

- 1 SET HINGES (OFFSET TOP, (2) INTERMEDIATE MORTISE AND BOTTOM PIVOT)(PTH) 1 OVERHEAD CLOSER WITH STOP
- 1 ELECTRIC EXIT DEVICE (CONCEALED VERTICAL ROD TYPE)
- 1 DELAYED EGRESS KIT W/ REMOTE ARMING
- 1 CARD READER (EA SIDE) 1 SET WEATHERSTRIPPING
- 1 THRESHOLD

FREHEIT ARCHITECTURE

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ISSUE LIST BID ISSUE



				W	NDOW SCHEDU	_E			
MARK	TYPE	CONFIG	WIDTH X HEIGHT	SILL HEIGHT	HEAD HEIGHT	SILL DETAIL	HEAD DETAIL	JAMB DETAIL	NOTES
1.1	A7	FIXED	10'-6" X 8'-5"	0'-2"	8'-5"				1, 3, 6, 8
1.2	A1	O/XO	6'-0" X 7'-0"	2'-0"	9'-0"				4, 5, 7
1.3	A8	Х	3'-0" X 3'-0"	4'-0"	7'-0"				4, 5, 7, 8
1.4	A8	Х	3'-0" X 3'-0"	4'-0"	7'-0"				4, 5, 7, 8
1.5	A3	ХО	6'-0" X 4'-6"	2'-6"	7'-0"				4, 5, 7,
1.6	A9	FIXED	7'-0" X 4'-6"	2'-6"	7'-0"				1, 2, 4
2.1	A4	00/0X	10'-0" X 7'-0"	2'-0"	9'-0"				3, 5, 7
2.2	A5	FIXED	10'-0" X 7'-0"	10'-6"	17'-6"				3
2.3	A1	O/XO	6'-0" X 7'-0"	2'-0"	9'-0"				3, 5, 7
2.4	A2	FIXED	6'-0" X 7'-0"	10'-6"	17'-6"				3
2.5	A1	O/XO	6'-0" X 7'-0"	2'-0"	9'-0"				3, 5, 7
2.6	A2	FIXED	6'-0" X 7'-0"	10'-6"	17'-6"				3
2.7	A1	O/XO	6'-0" X 7'-0"	2'-0"	9'-0"				3, 5, 7
2.8	A2	FIXED	6'-0" X 7'-0"	10'-6"	17'-6"				3
2.9	A1	O/XO	6'-0" X 7'-0"	2'-0"	9'-0"				3, 5, 7
2.10	A2	FIXED	6'-0" X 7'-0"	10'-6"	17'-6"				3
2.11	A3	ХО	6'-0" X 4'-2"	2'-10"	7'-0"				5, 9
2.12	A3	ХО	6'-0" X 4'-2"	2'-10"	7'-0"				5, 9
2.13	A3	ХО	6'-0" X 4'-2"	2'-10"	7'-0"				5, 9
2.14	A3	ХО	6'-0" X 4'-2"	2'-10"	7'-0"				5, 9
2.15	A9	FIXED	7'-0" X 5'-0"	10'-8"	15'-8"				
2.16	A9	FIXED	5'-0" X 4'-4"	2'-8"	7'-0"				4, 9
2.17	A9	FIXED	5'-0" X 4'-4"	10'-8"	14'-10"				
2.18	A9	FIXED	5'-0" X 4'-4"	2'-8"	7'-0"				4, 9
2.19	A9	FIXED	5'-0" X 4'-4"	10'-8"	14'-10"				
2.20	A9	FIXED	5'-0" X 4'-4"	2'-8"	7'-0"				4, 9
2.21	A9	FIXED	5'-0" X 4'-4"	10'-8"	14'-10"				
2.22	A9	FIXED	5'-0" X 4'-4"	2'-8"	7'-0"				4, 9
2.23	A9	FIXED	5'-0" X 4'-4"	10'-8"	14'-10"				

NOTES:

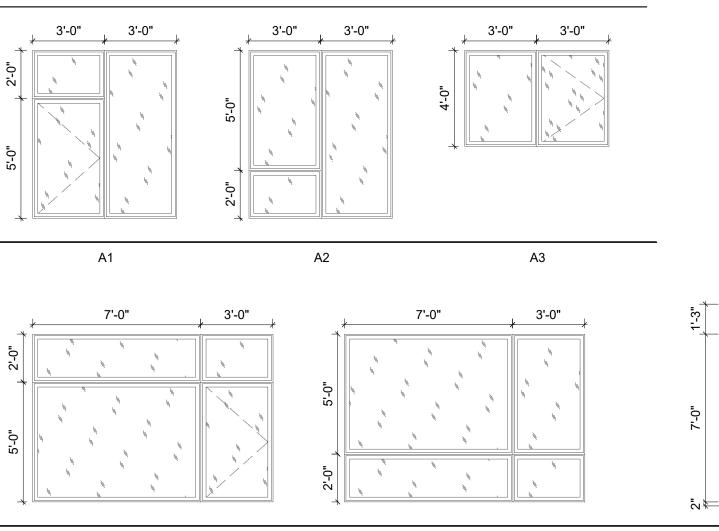
1. TEMPERED GLASS

2. SINGLE PANE (INTERIOR RELITE) 3. WINDOW SHADE, POWER OPERATION

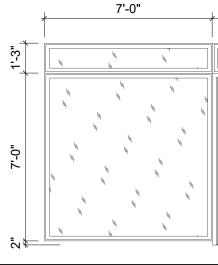
4. WINDOW SHADE, MANUAL OPERATION

WINDOW STREEP, MANUAL OF LIGATION
 INSECT SCREEN ON OPERABLE PANEL
 WITH STOREFRONT DOOR - SEE DOOR SCHEDULE
 OPERABLE PANEL IS CASEMENT, OUT-SWING
 INTERMEDIATE MULLION TO ALIGN WITH DOOR HEAD AT 7'-0" A.F.F.
 WINDOW HEAD TO ALIGN WITH DOOR HEAD AT 7'-0" A.F.F.

WINDOW TYPES



A5



A7



A4





(STOREFRONT & ENTRANCE SYSTEMS)

1. ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL, FINISH TO MATCH EXISTING STOREFRONT SYSTEM.

2. 1" INSULATED GLAZING - SEE EXT WINDOW TYPES FOR LOCATION OF SAFETY GLASS (*).

3. PROVIDE FLASHING AT HEAD & SILL - CONTINUOUS SILICONE SEALANT, INSIDE AND OUT AT PERIMETER OF WINDOW FRAME.

4. PROVIDE 2-PIECE METAL CAP @ SILL

5. VERTICAL GLAZING: ASSEMBLY MAX U-FACTOR U-0.38; ASSEMBLY MAX SHGC 0.35.

6. ENTRANCE DOORS: ASSEMBLY MAX U-FACTOR U-0.60; ASSEMBLY MAX SHGC 0.35.



BUILDING \succ UTILIT ROAD 1 3015 MISSION BEACH TULALIP, WA 98271 S TRIBE TULALIP

ISSUE LIST **BID ISSUE**

WINDOW SCHEDULE A9.40

DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION, AS AMENDED BY THE STATE OF WASHINGTON. LIVE LOADS IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN. LIVE LOAD REDUCTION IS PER IBC SECTION 1607.11.

		REDUCIBLE UNREDUCIBLE
CORRIDORS, STAIRS	100 PSF	X
CORRIDORS ABOVE FIRST FLOOR	80 PSF	Х
HEAVY STORAGE	250 PSF	Х
OFFICES	50 PSF	Х

REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

ROOF SNOW LOAD

THE ROOF SNOW LOAD IS DETERMINED USING CHAPTER 7 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH THE FOLLOWING FACTORS:

MINIM	IUM DESIGN LOAD	25 PSF WIT	HOUT DRIFT
P _q =	20 PSF	C _e =	0.9
l _s =	1.00	C _t =	1.0
P _f =	20 PSF	C _s =	1.0

SEISMIC LOADS

THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF PLYWOOD SHEAR WALLS. EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 WITH THE FOLLOWING FACTORS:

SITE CLASS D	$h_n = 30 FT$
RISK CATEGORY II	T = 0.26 SECONDS
SEISMIC DESIGN CATEGORY D	R = 6.5
$l_{e} = 1.00$	$\Omega = 3$
$S_s = 1.218 g$	$\rho = 1.3$
$S_1 = 0.434 \text{ g}$	$C_{s} = 0.127$
$S_{DS} = 0.82 g$	$V = C_s W = 35 KIPS$
$S_{D1} = 0.54 \text{ g}$	
$T_L = 6$ SECONDS	

THE SEISMIC FORCE-RESISTING SYSTEM IS COMPRISED OF THE STRUCTURAL WOOD MEMBERS AND CONNECTIONS IDENTIFIED IN PLAN AND ON THE WALL ELEVATIONS.

WIND LOADS

WIND LOAD IS DETERMINED USING CHAPTERS 26-31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

RISK CATEGORY II			K _{zt}	=	1.00
EXPC	SUR	E CATEGORY D	K _e	=	1.00
V	=	98 MPH	G_{cpi}	=	0.18
V _{asd}	=	76 MPH			

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STORY DRIFTS

THE MAXIMUM LATERAL DISPLACEMENTS WITH RESPECT TO THE LEVEL BELOW (STORY DRIFTS) ARE AS FOLLOWS:

SEISMIC:

WIND

INELASTIC STORY DRIFT = 2.5 % OF STORY HEIGHT ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY Cd/le, WHERE Cd/le = 4

STORY DRIFT = 2.5 % OF STORY HEIGHT

SOIL LOADS ALLOWABLE SOIL-BEARING PRESSURE 2,000 PSF DL + LL

RETAINING WALLS

2.666 PSF DL + LL + SEISMIC/WIND 35 PCF (EQUIVALENT FLUID PRESSURE) UNRESTRAINED 50 PCF (EQUIVALENT FLUID PRESSURE) RESTRAINED

GENERAL NOTES

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE REINFORCEMENT, EMBEDDED STEEL ITEMS, STRUCTURAL STEEL, GLUED-LAMINATED MEMBERS, CLADDING PANELS AND STAIRS.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

DEFERRED SUBMITTALS

PER IBC SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

PREMANUFACTURED WOOD TRUSSES AND JOISTS

- EXTERIOR CLADDING SYSTEMS PRE-ENGINEERED STEEL STAIRS
- EQUIPMENT ANCHORAGE
- SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS SUSPENDED CEILINGS

ALTERNATE ANCHORS (WHEN ALTERNATE ANCHORS ARE PROPOSED)

NONSTRUCTURAL COMPONENTS

DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

DESIGN, DETAILING AND CONSTRUCTION OF ALL NONSTRUCTURAL COMPONENTS WHICH ATTACH TO STRUCTURE SHALL ACCOMMODATE CONSTRUCTION TOLERANCES AS ESTABLISHED BY THE STRUCTURAL SPECIFICATIONS. ANY NONSTRUCTURAL COMPONENTS WHICH ATTACH TO MORE THAN ONE LEVEL OF THE STRUCTURE SHALL ALSO ACCOMMODATE THE FOLLOWING RELATIVE MOVEMENTS BETWEEN LEVELS WITHOUT DAMAGE TO THE NONSTRUCTURAL COMPONENTS:

VERTICAL DEFLECTION OF ±1 1/4 INCH DUE TO VARIABLE LIVE LOADS ELASTIC STORY DRIFT PER "STORY DRIFT" SECTION ABOVE

IN ADDITION, NONSTRUCTURAL COMPONENTS ATTACHED TO MORE THAN ONE LEVEL SHALL ACCOMMODATE AN INELASTIC STORY DRIFT PER "STORY DRIFT" SECTION ABOVE WITHOUT CREATING A LIFE SAFETY HAZARD.

INSPECTION SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER

STRUCTURAL OBSERVATION STRUCTURAL OBSERVATION OF THE SFRS WILL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH IBC SECTION 1704.6. STRUCTURAL OBSERVATION CONSISTS OF VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE IBC AND AS SHOWN IN THE SPECIAL INSPECTIONS SCHEDULE. CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE BEFORE CONCEALING THE FOLLOWING STRUCTURAL COMPONENTS FROM VIEW:

 REINFORCING STEEL FOR THE FIRST PLACEMENT OF THE FOLLOWING ELEMENTS: SFRS FOUNDATIONS COMPLETION OF THE FIRST PLYWOOD SHEAR WALL.

SPECIAL CONDITIONS

CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS--DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED. AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS. TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SEE THE GEOTECHNICAL REPORT BY MATERIALS TESTING & CONSULTING, INC, DATED JUNE 15, 2022, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALLS AND SUPPORTING SLABS ACHIEVE 28 DAY CONCRETE STRENGTH OR THE WALLS ARE TEMPORARILY BRACED. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLABS OR PAVING.

MEMBER SPACING

DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

CONCRETE MIXTURES CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE MIXTURES							
f'c	TEST AGE	EXPOSURE CLASS			ASS	S USE	
(PSI)	(DAYS)	F	S	W	С	- USE	
4,000	28	F0	S0	W0	C0	SLAB-ON-GRADE, CURBS AND PADS	
4,000	28	F1	S0	W1	C1	FOUNDATIONS, CONCRETE WALLS	

2. ALL FLATWORK HALL HAVE THE FOLLOWING SHRINKAGE LIMIT, MEASURED 28 DAYS FROM COMPLETION OF CURING: 0.035 PERCENT OR A MAXIMUM ALLOWABLE WATER CONTENT OF 255 LBS PER CUBIC YARD.

3. EXPOSED CONCRETE SLABS AT LABORATORY AND SIDE SHED TO RECEIVE SEALER PER SPECIFICATIONS.

CONCRETE MIXTURES SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS FOR EXPOSURE CLASSES SPECIFIED IN THE TABLE ABOVE AND ACI 318 TABLE 19.3.2.1.

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CaCl2 OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENTITIOUS MATERIALS RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENTITIOUS MATERIALS RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN ACI 318 TABLE 19.3.2.1 FOR THE EXPOSURE CLASSES LISTED.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

ALL CONCRETE SUBJECT TO EXPOSURE CLASSES F1, F2 OR F3 SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C 260. THE AMOUNT OF ENTRAINED AIR SHALL BE ACCORDING TO ACI 318 TABLE 19.3.3.1 WITH A FIELD TOLERANCE OF ±1.5 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 19. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT. AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

STRUCTURAL NOTES

CLADDING DESIGNED BY OTHERS SHALL BE SUPPORTED AT EACH STORY TO BE CONSISTENT WITH THE DESIGN OF THE BUILDING STRUCTURE. CLADDING DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES, UNLESS OTHERWISE APPROVED BY THE ARCHITECT. TORSIONAL BRACING SHALL BE DESIGNED BY THE CLADDING DESIGNER AND APPROVED BY THE ENGINEER.

STRUCTURAL OBSERVATIONS IN ADDITION TO THOSE REQUIRED BY IBC SECTION 1704.6 MAY BE PERFORMED AT THE ENGINEER'S DISCRETION.

ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

SLAB MIXES SHALL HAVE A TARGET SLUMP OF 6".

REINFORCING STEEL DEFORMED BARS HEADED DEFORMED BARS

ASTM A 615, GRADE 60 ASTM A 970, HEAD TYPE HA

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS".

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE Lb (Lbt FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE.

AT THE CONTRACTOR'S OPTION AND WITH THE ARCHITECT'S APPROVAL, HEADED DEFORMED BARS MAY BE USED IN LIEU OF REINFORCING BARS SHOWN WITH STANDARD 90 OR 180 DEGREE HOOKS AND MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES. USE OF HEADED DEFORMED BARS IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 25.4.4. USE OF MECHANICAL SPLICES IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 18.2.7 AND REQUIRES SUBMITTAL OF AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2018 IBC.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE		COVER
NONSTRUCTURAL	_ SLAB-ON-GRADE	PER DETAILS
WALL BARS: INT	ERIOR FACES	3/4"
EX	POSED TO EARTH OR WEATHER	R 1 1/2" (#5 AND SMALLER)
		2" (#6 AND LARGER)
FOOTING, BOTTO	M BARS	3" (CAST AGAINST ÉARTH)
	TOP BARS	1 1/2"
		2" (#6 AND LARGER WHERE
		EXPOSED TO EARTH OR
		WEATHER)
	SIDE BARS	2"

WELDING OF REINFORCING, WHERE APPROVED BY THE ARCHITECT, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4. REINFORCING STEEL WELDING CODE. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING BARS TO BE WELDED WELDING ELECTRODES

ASTM A 706, GRADE 60, LOW ALLOY F80XX

STRUCTURAL STEEL

REFERENCE SPECIFICATIONS STRUCTURAL STEEL	AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
HIGH STRENGTH BOLTS	RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS"
WELDING	AWS D1.1, TYPICAL AWS D1.8 FOR SUPPLEMENTAL SEISMIC PROVISIONS AWS PREQUALIFIED JOINT DETAILS
WELDER CERTIFICATION	AMERICAN WELDING SOCIETY (AWS) WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)
STEEL MATERIALS	

PLATES (PL), BARS

THREADED RODS

WELDING ELECTRODES

ANGLES (L). CHANNELS (C AND MC) ASTM A 36 STRUCTURAL TUBES (HSS) STRUCTURAL BOLTS ANCHOR RODS

ASTM A 36, TYPICAL, ASTM A 572 GRADE 50 WHERE NOTED ASTM A 500, GRADE C ASTM F 3125. GRADE A 325 ASTM F 1554, GRADE 36 UNLESS NOTED OTHERWISE ASTM A 36. UNLESS NOTED OTHERWISE 70 KSI, LOW HYDROGEN, TYPICAL

STRUCTURAL STEEL DESIGN. FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE ARCHITECT. A MINIMUM OF TWO BOLTS IS REQUIRED FOR ALL BEAM CONNECTIONS. ALTERNATIVE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL BY THE ARCHITECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND UNEQUAL PARTS.

PROTECTION OF STEEL

STRUCTURAL STEEL AND CONNECTION, INCLUDING PLATES AND OTHER STEEL ITEMS EMBEDDED IN CONCRETE. WHICH ARE EXPOSED TO WEATHER AND NOT TO BE PAINTED ACCORDING TO THE ARCHITECT, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A 123, ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH THE SPECIFICATIONS

STRUCTURAL STEEL AND CONNECTIONS SHALL BE FIREPROOFED WHERE REQUIRED BY THE ARCHITECT. PRIMARY AND SECONDARY STRUCTURE ARE TO BE AS DEFINED BY THE IBC. STRUCTURAL MEMBERS SHALL BE ASSUMED TO BE IN A THERMAL UNRESTRAINED CONDITION FOR THE PURPOSES OF DETERMINING FIREPROOFING THICKNESS, UL DESIGN SHALL BE IN ACCORDANCE WITH LRFD DESIGN METHODOLOGY.

WHERE SPRAY-APPLIED CEMENTITIOUS FIREPROOFING IS EXPOSED TO WEATHER, STRUCTURAL STEEL SHALL BE CONSIDERED EXPOSED TO WEATHER, AND SHALL BE PROTECTED ACCORDINGLY.

ALL COATINGS ARE TO FOLLOW THE SPECIFICATIONS AND PRODUCT MANUFACTURER'S INSTRUCTIONS.

ALL WELDING SHALL BE IN CONFORMANCE3 WITH AISC AND AWS STANDARDS, AND SHALL BE PERFORMED BY AWS-WABO-CERTIFIED WELDERS. ONLY WELDS THAT ARE PREQUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16-INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. WHERE FIELD WELD IS NOT INDICATED, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOW OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

ANCHORS

POST-INSTALLED ANCHORS PROVIDE POST-INSTALLED ANCHORS PER THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE:

ANCHORS IN CONCRETE			
ANCHOR TYPE	APPROVED ANCHOR(S)	EVALUATION REPORT	
ADHESIVE	HILTI HIT-RE 520 V3	ICC-ES ESR-3814	
MECHANICAL	HILTI KWIK BOLT TZ2	ICC-ES ESR-4266	

ADHESIVE REINFORCING DOWEL MATERIALS ADHESIVE REINFORCING DOWELS (ARD) THREADED ARD

ASTM A 615, GRADE 60 ASTM F 1554, GRADE 36 (CARBON STEEL) ASTM A193 B8M CLASS 1 (STAINLESS)

ANCHOR EMBEDMENT DEPTHS LISTED SHALL BE CONSIDERED EFFECTIVE EMBEDMENT DEPTHS AS DEFINED IN THE ICC-ES OR IAPMO UES EVALUATION REPORTS. PROVIDE ANCHOR LENGTH AND HOLE PER EVALUATION REPORT TO ACCOMMODATE THE EFFECTIVE EMBEDMENT SPECIFIED IN THESE DRAWINGS. SEE DETAIL 9/S4.01

MECHANICAL AND ADHESIVE ANCHORS SHALL BE ZINC PLATED CARBON STEEL UNLESS NOTED OTHERWISE, MECHANICAL AND ADHESIVE ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

DO NOT DAMAGE EXISTING REINFORCEMENT. IF LOCATION OF REINFORCEMENT IS UNKNOWN, SCAN FOR EXISTING REINFORCING STEEL PRIOR TO DRILLING.

USE OF ALTERNATE PRODUCTS, OR OF POST-INSTALLED ANCHORS AT LOCATIONS NOT SHOWN IN THESE DRAWINGS, IS SUBJECT TO THE APPROVAL OF THE ARCHITECT. SUBMIT PROPOSED ANCHORS TO THE ARCHITECT WITH AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2018 IBC AND DOCUMENTATION SHOWING THAT THE ALTERNATE PRODUCTS PROVIDE EQUIVALENT CAPACITY FOR ALL CONDITIONS IN THIS PROJECT. SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR USE IN CRACKED CONCRETE. WHERE ANCHORS RESIST SEISMIC LOADS, SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR THE RESISTANCE OF SEISMIC LOADS. DOCUMENTATION OF CAPACITY FOR ALTERNATE PRODUCTS MUST BE INCLUDED AS A DEFERRED SUBMITTAL.

ADHESIVES SHALL NOT BE INSTALLED PRIOR TO THE CONCRETE REACHING AN AGE OF 21 DAYS AS REQUIRED BY ACI 318.

WELDED HEADED STUD, AND DEFORMED BAR ANCHORS

ALL STUDS AND DEFORMED BAR ANCHORS (DBA) SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER WITH LENGTH AFTER WELD AS SHOWN ON THE STRUCTURAL DRAWINGS.

WELDED HEADED STUDS DEFORMED BAR ANCHORS

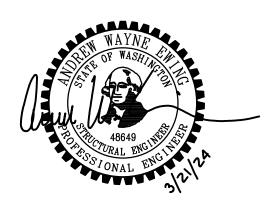
AWS D1.1 TYPE B ASTM A1064

MATERIAL

3/4"Ø UNLESS NOTED OTHERWISE 1/2"Ø UNLESS NOTED OTHERWISE



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DRAWING LIST

S0.01 S0.02	STRUCTURAL NOTES AND DRAWING LIST STRUCTURAL NOTES AND INSPECTION SCHEDULE
S0.11	STRUCTURAL SYMBOLS AND ABBREVIATIONS
S1.01	LOAD MAPS
S2.01 S2.02 S2.03	FOUNDATION PLAN 2ND FLOOR FRAMING PLAN ROOF FRAMING PLAN
S3.01 S3.02	EXTERIOR WALL FRAMING ELEVATIONS EAST STAIR FRAMING ELEVATION AND DETAILS
S4.01	TYPICAL CONCRETE DETAILS
S4.11	FOUNDATION SECTIONS AND DETAILS
S5.01 S5.02 S5.03 S5.04 S5.05 S5.06 S5.07	TYPICAL WOOD FRAMING DETAILS TYPICAL WOOD STAIRS DETAILS TYPICAL WOOD ELEVATOR DETAILS
S5.11	WOOD FLOOR FRAMING DETAILS
S5.21	WOOD ROOF FRAMING DETAILS
S6.11	STEEL DETAILS

ISSUE LIST PERMIT ISSUE BID ISSUE

STRUCTURAL

DRAWING LIST

NOTES AND

S0.0²

STRUCTURAL NOTES

WOOD

WOOD CONSTRUCTION SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 23.

SAWN LUMBER

SAWN LUMBER SHALL CONFORM TO THE LATEST EDITION OF "GRADING AND DRESSING RULES" BY WCLIB OR "WESTERN LUMBER GRADING RULES" BY WWPA. LUMBER SHALL BE SEASONED DRY WITH A MAXIMUM MOISTURE CONTENT OF 19% AND BE THE SPECIES AND GRADE SPECIFIED BELOW.

USE	GRADE	F₅ (PSI) (SINGLE USE
WALL STUDS 2" TO 4" THICK, 2" AND WIDER	DOUGLAS FIR-LARCH NO. 2	900
PLANKING & PLATES 2" TO 4" THICK, 2" AND WIDER	DOUGLAS FIR-LARCH NO. 2	900
JOISTS & RAFTERS 2" TO 4" THICK, 2" AND WIDER	DOUGLAS FIR-LARCH NO. 2	900
BEAMS & STRINGERS 5"x5" AND LARGER	DOUGLAS FIR-LARCH NO. 1	1,350
<u>POSTS</u> 5"x5" AND LARGER 4"X4"	DOUGLAS FIR-LARCH NO. 1 DOUGLAS FIR-LARCH NO. 1	1,200 1,000

TONGUE AND GROOVE LUMBER DECKING

DECKING, FASTENING, AND INSTALLATION, SHALL BE PER IBC 2304.9. LAYUP SHALL BE COMBINATION SIMPLE AND TWO SPAN CONTINUOUS PATTERN. TWO-INCH DECKING SHALL NOT EXCEED 15% MOISTURE CONTENT

TYPE	GRADE	F _b (PSI)
3X6 SOLID TIMBER	DOUGLAS FIR-LARCH COMMERCIAL	1,450

GLUED-LAMINATED TIMBER

GLUED-LAMINATED TIMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190.1 "STRUCTURAL GLUED LAMINATED TIMBER". APPLY ONE COAT OF PENETRATING END SEALER IMMEDIATELY AFTER TRIMMING IN SHOP OR FIELD. MEMBERS SHALL BE VISUALLY GRADED WESTERN SPECIES MANUFACTURED WITH ARCHITECTURAL APPEARANCE GRADE AND WITH LAYUP COMBINATION AS FOLLOWS.

	COMBINATION		
TYPE	SYMBOL	SPECIES	USES
BEAMS	24F-V4	DF/DF	SIMPLE SPAN
	24F-V8	DF/DF	CONTINUOUS OR
			CANTILEVER SPAN

STRUCTURAL COMPOSITE LUMBER

STRUCTURAL COMPOSITE LUMBER PRODUCTS SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS AND MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM DESIGN PROPERTIES:

<u>TYPE</u> PSL (COL) PSL (BEAM) LVL	<u>MODULUS OF</u> <u>ELASTICITY (PSI)</u> 1,800,000 2,000,000 2,000,000	<u>ALLOWABLE</u> FLEXURAL STRESS (PSI) 2,400 2,900 2,600
LVL	2,000,000	2,600
LSL	1,550,000	2,325

FLEXURAL STRESSES NOTED ABOVE ARE FOR A 12-INCH MEMBER. DEEPER MEMBERS SHALL BE DESIGNED FOR REDUCED STRESSES PER THE MANUFACTURER'S REQUIREMENTS.

PRODUCT SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC-ES OR IAPMO-UES REPORT VALID FOR THE 2018 IBC. PRODUCT SUBSTITUTIONS SHALL BE DEMONSTRATED TO HAVE EQUIVALENT STRENGTH. STIFFNESS. AND ALLOWABLE SPACING OF FASTENERS WITHOUT ALTERING THE STRUCTURAL DESIGN. WHERE SUBSTITUTION REQUESTS INVOLVE ALTERING THE STRUCTURAL DESIGN, THE SUBSTITUTION REQUEST SHALL INCLUDE THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

WOOD I-JOISTS WOOD I-JOISTS SHALL BE MANUFACTURED BY RED-BUILT OR APPROVED EQUAL. JOISTS SHALL BE OF THE SIZE AND PROFILE SHOWN ON THE DRAWINGS. JOISTS SHALL BE COMPATIBLE WITH THE LOAD, DIMENSIONAL, AND FIRE RATING REQUIREMENTS OF THE PROJECT.

PRODUCT SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC-ES OR IAPMO-UES REPORT VALID FOR THE 2018 IBC. PRODUCT SUBSTITUTIONS SHALL BE DEMONSTRATED TO HAVE EQUIVALENT STRENGTH, STIFFNESS, AND ALLOWABLE SPACING OF FASTENERS WITHOUT ALTERING THE STRUCTURAL DESIGN. WHERE SUBSTITUTION REQUESTS INVOLVE ALTERING THE STRUCTURAL DESIGN, THE SUBSTITUTION REQUEST SHALL INCLUDE THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

JOISTS SHALL BE SUPPLIED WITH THE PROPER END CONNECTIONS, WEB STIFFENERS. BRIDGING, AND BRACING TO PROVIDE LATERAL STABILITY OF ALL JOISTS. HANGERS SHALL BE PROVIDED BY THE JOIST SUPPLIER WHERE SUPPORT CONDITIONS REQUIRE THEM. WELDABLE HANGERS SHALL BE PROVIDED WHERE HANGERS ATTACH TO STEEL MEMBERS.

OPEN-WEB PIN-CONNECTED TRUSSES

BIDDER-DESIGNED OPEN-WEB PIN-CONNECTED TRUSSES SHALL COMPLY WITH IBC 2303.4 AND BE DESIGNED AND DETAILED BY REDBUILT OR APPROVED EQUAL. TRUSSES SHALL BE OF THE PROFILE SHOWN ON THE DRAWINGS AND SHALL BE COMPATIBLE WITH THE LOAD, DIMENSIONAL, AND FIRE RATING REQUIREMENTS OF THE PROJECT. MINIMUM TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

2ND FLOOR:

DEAD LOAD:	TOP CHORD = 23 PSF
	BOT CHORD = 10 PSF
LIVE LOAD:	TOP CHORD = 65 PSF

DEFLECTION CRITERIA: LIVE LOAD = L/400, 1/2" MAX DEAD + LIVE LOAD = L/480, 5/8" MAX

ROOF:

DEAD LOAD:	TOP CHORD = 12 PSF
	BOT CHORD = 5 PSF
LIVE LOAD:	TOP CHORD = 25 PSF (SNOW)
WIND UPLIFT:	SEE 3/S1.01

DEFLECTION CRITERIA: LIVE LOAD = L/360 , 1 1/4" MAX DEAD + LIVE LOAD = L/240, 2" MAX

SPECIFIED LOADS ARE SERVICE LEVEL. DEAD LOAD DOES NOT INCLUDE TRUSS SELF WEIGHT. SEE PLANS AND DETAILS FOR ADDITIONAL LOADING REQUIREMENTS SUCH AS TRANSMISSION OF IN-PLANE LATERAL WIND OR SEISMIC FORCES AND MECHANICAL UNIT LOCATIONS.

TRUSSES SHALL BE SUPPLIED WITH THE PROPER END CONNECTIONS, BRIDGING, AND BRACING TO PROVIDE LATERAL STABILITY OF ALL TRUSSES AND TRUSS MEMBERS, AND TIE-DOWN CONNECTIONS FROM TRUSSES TO TOPS OF WALLS AND BEAMS. TRUSSES SHALL BE TOP CHORD BEARING AT SUPPORTS AS INDICATED. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR ENSURING THE BEARING SEAT DOES NOT EXCEED THE COMPRESSION CAPACITY OF THE SUPPORTING WALL PLATE. HANGERS SHALL BE PROVIDED BY THE TRUSS SUPPLIER WHERE SUPPORT CONDITIONS REQUIRE THEM. WELDABLE HANGERS SHALL BE PROVIDED WHERE HANGERS ATTACH TO STEEL MEMBERS.

WOOD STRUCTURAL PANELS

SUBFLOORING SHEATHING (TONGUE AND GROOVE) 1-1/8 CATEGORY APA RATED STURD-I-FLOOR 24OC, EXPOSURE 1

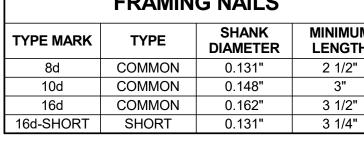
SHEAR WALL SHEATHING

ALL ROOF SHEATHING AND SUBFLOORING SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO SUPPORTS, UNLESS NOTED OTHERWISE, AND WITH THE PANELS CONTINUOUS OVER TWO OR MORE SUPPORTS. INSTALL WITH 1/8" GAP BETWEEN PANELS. FLOOR DIAPHRAGM AND SHEAR WALL NAILS SHALL BE DRIVEN FLUSH, BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING.

TIMBER FASTENERS AND CONNECTORS

WOOD CONNECTORS SHALL BE SIMPSON STRONG-TIE AS SPECIFIED IN CATALOG NO. C-C-2021, OR APPROVED EQUAL. INSTALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE FASTENERS IN EACH MEMBERS. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A 307. PROVIDE STANDARD WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED DRY AND BE THE SAME GRADE (MIN) AS THE MEMBERS CONNECTED. ALL JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH LU SERIES JOIST HANGERS, UNLESS NOTED OTHERWISE. ALL DOUBLE AND TRIPLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH U SERIES HANGERS, UNLESS NOTED OTHERWISE.

ALL FRAMING NAILS SHALL HAVE THE SIZE AND MINIMUM LENGTH AS SPECIFIED IN THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. NAIL TYPE SHALL BE COMMON UNLESS NOTED OTHERWISE. POWER-DRIVEN NAILS AND STAPLES SHALL BE IN ACCORDANCE ICC-ES FSR-1539. NAULING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.10.1. SEE 11/S5.04 & 11/S5.05 FOR NAIL SIZES AT SHEAR WALL AND ROOF/FLOOR DIAPHRAGM SHEATHING, RESPECTIVELY.



POWER-DRIVEN NAILS MAY BE SUBSTITUTED FOR COMMON NAILS AT SPACING AS FOLLOWS. SUBSTITUTIONS FOR NAIL SIZE, SPACING, OR QUANTITY NOT SHOWN REQUIRE APPROVAL.

COMMON

ALTERNATE NAILING SCHEDULE									
FASTENER TYPE	SHANK DIAMETER	LENGTH	SPACING						
8d COMMON	0.131"	2 1/2"	16"	12"	8"	6"	4"	3"	2"
16d SHORT	0.131"	3 1/4"	16"	12"	8"	6"	4"	3"	2"
10d COMMON	0.148"	3"	16"	12"	8"	6"	4"	3"	2"
16d SHORT	0.131"	3 1/4"	12"	10"	6"	4"	3"	2 1/2"	1 1/2"
16d COMMON	0.162"	3 1/2"	16"	12"	8"	6"	4"	3"	-
16d SHORT	0.131"	3 1/4"	10"	8"	5"	4"	2 1/2"	2"	-

ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED LUMBER SHALL BE GALVANIZED WITH A MINIMUM COATING OF 1.85 OUNCES/SQUARE FOOT. **IDENTIFICATION**

ALL SAWN LUMBER AND PREFABRICATED WOOD PRODUCTS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

GLUED FLOOR AND ROOF SYSTEM ALL HORIZONTAL SHEATHING SHALL BE GLUED TO FLOOR JOISTS, ROOF TRUSSES, ROOF JOISTS, RIM BOARDS, AND BLOCKING. THE FIELD-GLUED SYSTEM SHALL BE INSTALLED ACCORDING TO THE RECOMMENDATIONS OF THE APA. GLUE SHALL BE APPLIED TO THE SUPPORTING FRAMING AND TO THE GROOVE IN THE EDGE OF THE T&G PANELS. GLUE SHALL MEET THE REQUIREMENTS OF THE APA ADHESIVE SPECIFICATION AFG-01 AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

PRESERVATIVE-TREATED WOOD WOOD SHALL BE PROTECTED FROM DECAY AND TERMITES IN ACCORDANCE WITH IBC DESIGN STRESSES.

WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF DOC PS 1 OR DOC PS 2. SHEATHING SHALL BE AS FOLLOWS:

ROOF SHEATHING (TONGUE AND GROOVE) T&G 19/32" CATEGORY APA RATED SHEATHING, 40/20, EXPOSURE 1

23/32 CATEGORY APA RATED SHEATHING, 48/24, EXPOSURE 1

15/32 CATEGORY APA RATED SHEATHING, 32/16, EXPOSURE 1

FRAMING NAILS							
PE MARK	TYPE	SHANK DIAMETER	MINIMUM LENGTH				
8d	COMMON	0.131"	2 1/2"				
10d	COMMON	0.148"	3"				

0.162"

3 1/2"

2304.12. PRESERVATIVE-TREATMENTS SHALL CONFORM TO THE APPROPRIATE STANDARDS OF THE AWPA FOR SAWN LUMBER, GLUED-LAMINATED TIMBER, ROUND POLES, PILES, AND MARINE PILES AND SHALL BEAR A TREATMENT IDENTIFICATION MARK BY THE CERTIFYING AGENCY. ALL LUMBER IN CONTACT WITH CMU, CONCRETE, OR GROUND SURFACES SHALL BE PRESERVATIVE-TREATED. PRESERVATIVE TREATMENT SHALL NOT REDUCE ALLOWABLE

SPECIAL INSPECTIONS AND TESTING SCHEDULE						
ESTABLISHED PER IBC	2018 SECTION 109 AND CHAPT	ER 17				
ITEM IBC CODE COMMENTS						
SOILS		-				
GRADING, EXCAVATION AND FILL	1705.6	BY GEOTECHNICAL ENGINEER				
FINAL FOUNDATION PREPARATION		BY GEOTECHNICAL ENGINEER				
INSPECTION IN FABRICATION SHOP	1704.2.5	-				
CONCRETE		-				
POST-INSTALLED ADHESIVE ANCHORS	1705.0	-				
POST-INSTALLED MECHANICAL ANCHORS	1705.3	-				
EMBEDDED PLATES		-				
STRUCTURAL STEEL		-				
FABRICATION AND ERECTION	1705.0	-				
HIGH STRENGTH BOLTING	1705.2	-				
WELDING		-				
WOOD	-	-				
PREFABRICATED STRUCTURAL ELEMENTS	1704.2.5	-				
SEISMIC RESISTANCE						
SEISMIC - WOOD	1705.12.2	-				

SPECIAL INSPECTIONS AND TESTING NOTES:

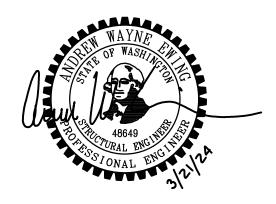
BIDDER-DESIGNED COMPONENTS.

1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. INSPECTION REQUIREMENTS FOR SYSTEMS DESIGNED BY OTHERS SHALL BE DEFINED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY TO ALL



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STRUCTURAL

NOTES AND

INSPECTION

SCHEDULE

S0.02

STRUCTURAL ABBREVIATIONS

AB ADD'L	ANCHOR BOLT ADDITIONAL	IF IN
ADH	ADHESIVE	INFO
ADJ	ADJUSTABLE	INT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	JST
AFF	ABOVE FINISH FLOOR	JT K
AGG	AGGREGATE	KSF
ANCH	ANCHOR	LF
ARCH		LFH
ARD B/	ADHESIVE REINFORCING DOWEL BOTTOM OF	LLH LLV
BLDG	BUILDING	LLV
BLKG	BLOCKING	LP
BM	BEAM	LSL
BN BOT	DIAPHRAGM BOUNDARY NAILING BOTTOM	LVL MAX
BRG	BEARING	MAX
BSMT	BASEMENT	MFR
BTWN	BETWEEN	MIN
BUR C	BUILT-UP ROOF CAMBER	MISC MOM
CAP	CAPACITY	NIC
CC	CENTER TO CENTER	NO
CDF	CONTROLLED DENSITY FILL	NOM
CFS CIP	COLD-FORMED STEEL CAST-IN-PLACE	NS
CJ	CONSTRUCTION OR CONTROL JOINT	NS NTS
CJP	COMPLETE JOINT PENETRATION	OC
CL	CENTERLINE	OD
CLG CLR	CEILING CLEAR	OF
CMU	CONCRETE MASONRY UNIT	OPNG OPP
COL	COLUMN	P
CONC	CONCRETE	PAF
CONN CONST	CONNECTION CONSTRUCTION	PC
CONT	CONTINUOUS	PC PEN
CONTR	CONTRACTOR	PJP
CONTY	CONTINUITY	PL
COORD CTR	COORDINATE CENTER	PL
CY	CUBIC YARD	PLWD PNL
DB	DIVIDER BEAM	PSF
DBA	DEFORMED BAR ANCHOR	PSI
DBL	DOUBLE DEMAND CRITICAL WELD	PT
DCW DEMO	DEMOLISH	PT PWT
DET	DETAIL	R
DF	DOUGLAS FIR	RD
		REINF
DIAG DKG	DIAGONAL DECKING	REM REQ'D
DN	DOWN	RND
DO	DITTO	RO
DWF DWG	DEFORMED WIRE FABRIC DRAWING	RTN
DWG	DOWEL	SC SCHED
EA	EACH	SDCI
EF	EACH FACE	
EL ELECT	ELEVATION ELECTRICAL	SDQ SECT
ELEV	ELEVATOR	SFRS
EN	PANEL EDGE NAILING	SHT
EQ	EQUAL	SHTG
EQUIP ES	EQUIPMENT EACH SIDE	SIM SOG
EW	EACH WAY	SP
EX	EXISTING	SPEC
EXP	EXPANSION	SQ
EXT F	EXTERIOR FAHRENHEIT	SST ST
FD	FLOOR DRAIN	STD
FDN	FOUNDATION	STIFF
FF	FINISH FLOOR	STIRR
FIN FLG	FINISH FLANGE	STL STRUCT
FLR	FLOOR	SUPP
FOB	FACE OF BUILDING	SYM
FS	FAR SIDE	T&B
FT FTG	FEET FOOTING	T&G T/
GA	GAUGE	TB
GALV	GALVANIZED	THK
GB GEN	GRADE BEAM	THRU
GEN GL	GENERAL GLUED LAMINATED TIMBER	TRANS TYP
GOVT	GOVERNMENT	UNO
GR	GRADE	UT
GWB	GYPSUM WALL BOARD	VERT
HF HGR	HEM-FIR HANGER	VIF W
HK	HOOK	W/
HORIZ	HORIZONTAL	W/O
HP	HIGH POINT	WD WUS
HSS IBC	HOLLOW STRUCTURAL SECTION INTERNATIONAL BUILDING CODE	WHS WL
ID	INSIDE DIAMETER	WP
IE	INVERT ELEVATION	

INSIDE FACE INCH INFORMATION INTERIOR JOIST JOINT KIP (1,000 LBS.) KIPS PER SQUARE FOOT LINEAL FOOT LONG FACE HORIZONTAL LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LOW POINT LAMINATED STRAND LUMBER LAMINATED VENEER LUMBER MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MOMENT NOT IN CONTRACT NUMBER NOMINAL NEAR SIDE NONSHRINK NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPENING OPPOSITE POST POWER ACTUATED FASTENER PIECE PILE CAP PENETRATION PARTIAL JOINT PENETRATION PROPERTY LINE PLATE PLYWOOD PANEL POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POST-TENSIONED PRESERVATIVE-TREATED PREFABRICATED WOOD TRUSS RADIUS ROOF DRAIN REINFORCING REMAIN(DER) REQUIRED ROUND ROUGH OPENING RETURN SLIP CRITICAL SCHEDULE SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTIONS SPECIAL DUCTILE QUALITY SECTION SEISMIC FORCE-RESISTING SYSTEM SHEET SHEATHING SIMILAR SLAB-ON-GRADE SPACE SPECIFICATION SQUARE STAINLESS STEEL SUSTAINED TENSION ANCHOR STANDARD STIFFENER STIRRUP STEEL STRUCTURAL SUPPORT SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TOP OF TABLE THICK(NESS) THROUGH TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD W-SHAPE WITH WITHOUT WOOD WELDED HEADED STUD WATER LINE WORK POINT

STRUCTURAL DRAWING SYMBOLS

<u>CO</u>	NCRETE SYMBOLS
	CONCRETE COLUMN ABOVE OR PASSING THRU THIS LEVE
	CONCRETE COLUMN BELOW
	STEPPED FOOTING
	CONCRETE WALL ABOVE OR PASSING THRU LEVEL
	PARTIAL HEIGHT CONCRETE WALL
	CONCRETE IN CROSS SECTION
	EXISTING CONCRETE IN CROSS SECTION
<u>V</u>	VOOD SYMBOLS
	GLULAM SECTION
	ENGINEERED LUMBER SECTION (PSL, LSL, LVL)
\boxtimes	SOLID WOOD SECTION
	SOLID WOOD BLOCKING SECTION
	BUNDLED STUDS, WOOD POST
	PLYWOOD SECTION
	BEAM / GIRDER / JOIST
	WALL ABOVE THIS LEVEL WITH HEADER BELOW
[]]]]	WALL BELOW THIS LEVEL WITH HEADER BELOW
	WALL ABOVE THIS LEVEL
	WALL BELOW THIS LEVEL

CONCRETE SYMBOLS

GENERAL SYMBOLS						
(10)	GRID BUBBLE					
777_5177	SURFACE - SLOPE UP					
	SURFACE - STEPPED					
77777777,	SURFACE - SLOPE DOWN					
	SURFACE - SLOPE TWO WAYS					
	UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE. SEE SPECIFICATIONS FOR TYPE OF MATERIAL AND PREPARATION METHOD.					
	NORTH ARROW					
	STANDARD SECTION CUTS					
	BUILDING SECTION CUTS					
1 S3.1	ELEVATION OF WALL OR FRAME					
100'-0"	SPOT ELEVATION: TOP OF PLYWOOD TOP OF CONCRETE TOP OF STEEL					
100'-0"	TOP OF CONCRETE ELEVATION					
100'-0"	TOP OF STEEL ELEVATION					
T/SLAB	REFERENCE ELEVATION. REFER TO PLAN UNLESS NOTED OTHERWISE.					
LEVEL 01	ELEVATION OF LEVEL					
▲ WP	WORKPOINT					
>	DIRECTION OF DOWNWARD SLOPE					
	DIRECTION OF SPAN					

EXISTING FRAMING

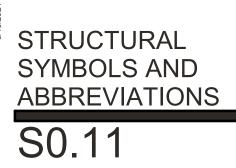


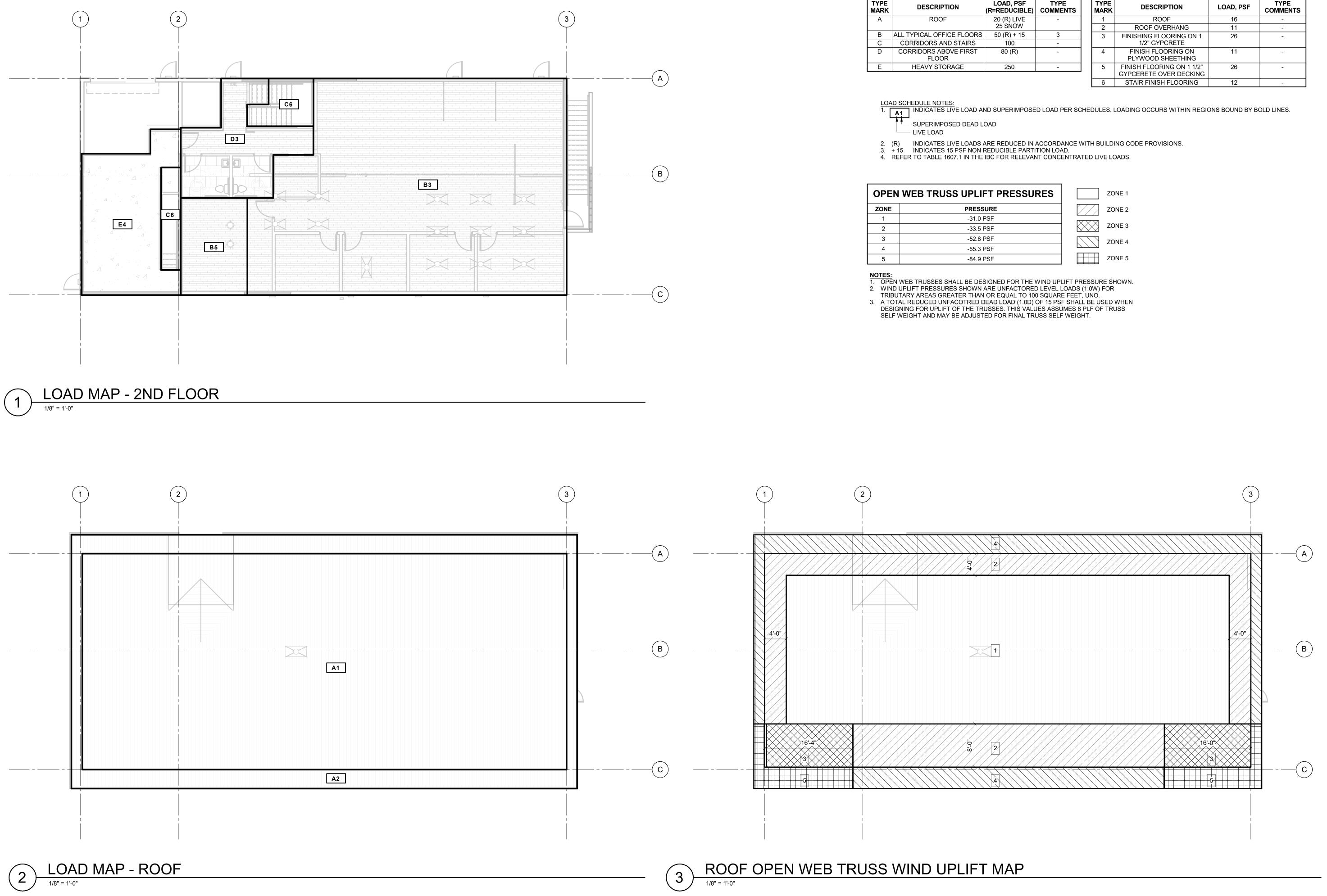
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LIVE LOAD SCHEDULE				SL	JPERIMPOSED DEAD		IEDULE
TYPE MARK	DESCRIPTION	LOAD, PSF (R=REDUCIBLE)	TYPE COMMENTS	TYPE MARK	DESCRIPTION	LOAD, PSF	TYPE COMMENTS
Α	ROOF	20 (R) LIVE	-	1	ROOF	16	-
		25 SNOW		2	ROOF OVERHANG	11	-
В	ALL TYPICAL OFFICE FLOORS	50 (R) + 15	3	3	FINISHING FLOORING ON 1	26	-
С	CORRIDORS AND STAIRS	100	-		1/2" GYPCRETE		
D	CORRIDORS ABOVE FIRST FLOOR	80 (R)	-	4	FINISH FLOORING ON PLYWOOD SHEETHING	11	-
E	HEAVY STORAGE	250	-	5	FINISH FLOORING ON 1 1/2" GYPCERETE OVER DECKING	26	-
				6	STAIR FINISH FLOORING	12	-

	DAD SCHEDULE NOTES:
1.	A1 INDICATES LIVE LOAD AND SUPER
	SUPERIMPOSED DEAD LOAD

OPEN		ZONE 1	
ZONE	PRESSURE		ZONE 2
1	-31.0 PSF		
2	-33.5 PSF		ZONE 3
3	-52.8 PSF	[]	ZONE 4
4	-55.3 PSF		20112
5	-84.9 PSF		ZONE 5



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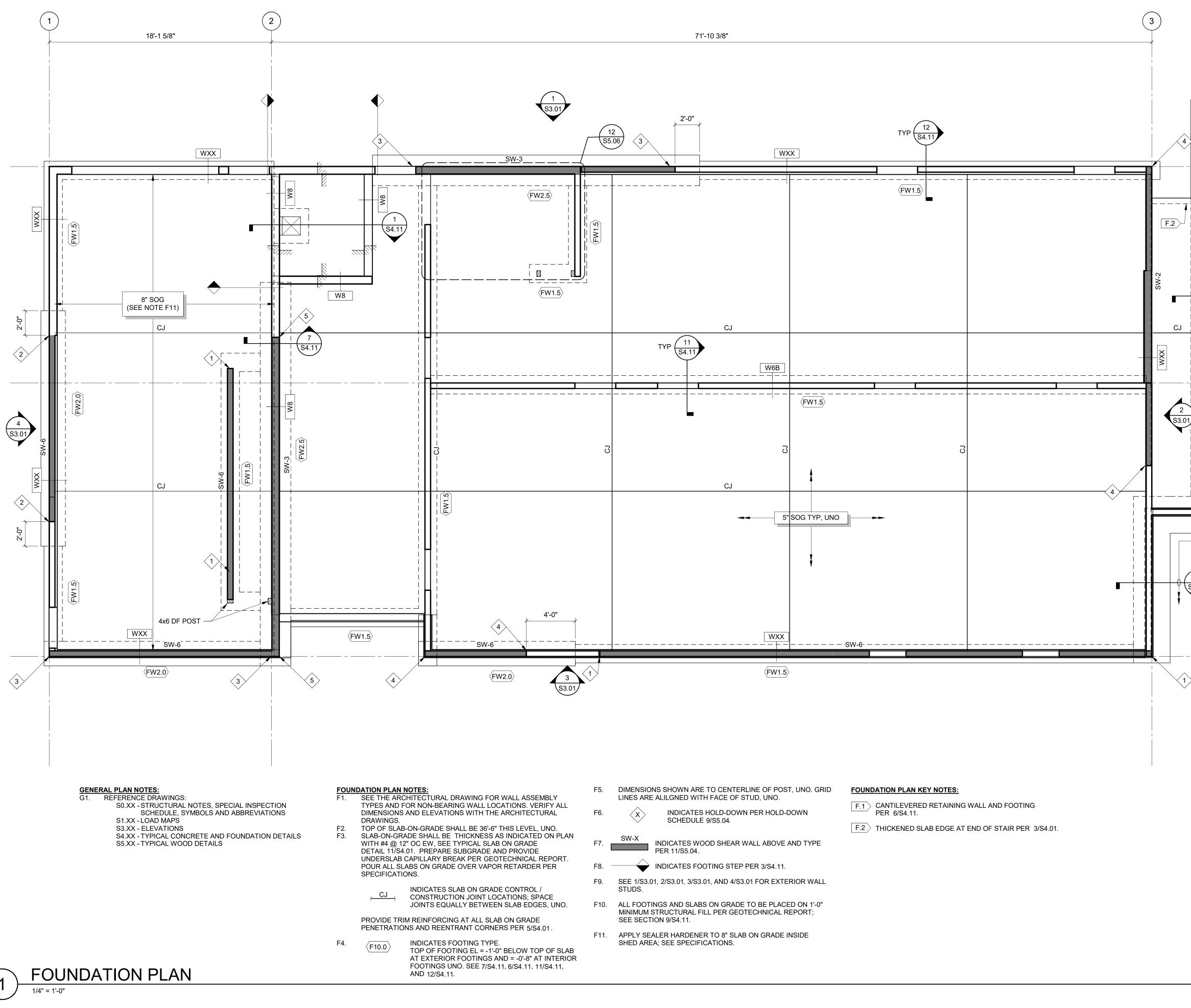
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LOAD MAPS

S1.01



POST SCHEDULE		
TYPE MARK	TVDE	
P-1	(2) 2x6	
P-2	(7) 2x6	
P-3	5-1/4"x11-7/8"	
P-4	(6) 2x6	

BEAM SCHEDULE		
TYPE MARK	ТҮРЕ	
B-1	5-1/8"x12" GLULAM	
B-2	5-1/8"x18" GLULAM	
B-3	5-1/8"x16 1/2" GLULAM	
B-4	6-3/4"x12" GLULAM	
B-5	6-3/4"x9" GLULAM	

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\S4.11

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HEADER SCHEDULE			
ALL TYPE AND/OR TYPE MARK HEADER SIZE		MAX ROUGH OPENING WIDTH	
H-0	(1) LSL 1-3/4x7-1/4	4'-0"	
H-1	(2) LSL 1-3/4x7-1/4	SEE ELEVATION	
H-2	LSL 3-1/2x5-1/2	SEE ELEVATION	
H-3	LSL 3-1/2x9-1/2	SEE ELEVATION	
H-4	LSL 5-1/4x11-7/8	SEE ELEVATION	
H-5	PSL 5-1/4x11-7/8	SEE ELEVATION	
H-6	HSS5x4x3/16	SEE ELEVATION	

JAMB SCHEDULE				
TYPE MARK	TRIMMER STUDS	KING STUDS	COMMENTS	
T-0	(2) LSL 1-1/2x5-1/2	(1) 2x6	NOTE 6	
T-1	(1) 2x6	(1) 2x6	NOTE 6	
T-2	(2) 2x6	(1) 2x6	NOTE 6	
T-3	(1) 2x6	(2) 2x6	NOTE 6	
T-4	(1) 2x8	(1) 2x8	NOTE 6	
T-5	(1) LSL 1-1/2x7-1/4	LSL 1-1/2x7-1/4	NOTE 6	
T-6	LSL 1-1/2x7-1/4	(2) LSL 1-1/2x7-1/4	NOTE 6	
T-7	LSL 1-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8	
T-8	LSL 3-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8	
T-9	PSL 3-1/2x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	NOTES 7 & 8	

2x5-1/4	PSL 5-1/4x11-7/8 (PLANK) N	
J	DIST SCHEDULE	
TYPE MARK	TYPE AND SPACING	
J-1	16" RED-I65 @ 24" OC	,
J-2	16" RED-I65 @ 12" OC	;
J-3	18" RED-I65 @ 16" OC	;

2x12 @ 24" OC

S	STUD SCHEDULE			
TYPE MARK	ТҮРЕ	NOTES		
S-1	2x6 @ 16" OC	-		
S-2	2x8 @ 16" OC	SEE NOTE 3		
S-3	LSL 1-1/2x5-1/2 @ 16" OC	-		
S-4	(2) LSL 1-3/4x5-1/2 @ 16" OC	-		
S-5	LSL 1-1/2x7-1/4 @ 16" OC	-		
S-6	(2) LSL 1-1/2x7-1/4 @ 16" OC	-		

J-4

2x8 @ 16" OC	SEE NOTE 3
LSL 1-1/2x5-1/2 @ 16" OC	-
(2) LSL 1-3/4x5-1/2 @ 16" OC	-
LSL 1-1/2x7-1/4 @ 16" OC	-
(2) LSL 1-1/2x7-1/4 @ 16" OC	-

STRU	CTURAL WA	ALL STUD SCHEDULE
MARK	STUDS	NOTES

W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO	
W6A	(2) 2x6 @ 16" OC	-	
W6B	2x6 @ 12" OC	-	
WXX	-	SEE S3.01 FRAMING ELEVATIONS	
W8	2x8 @ 16" OC	SEE NOTE 3	

SCHEDULE NOTES:

- 1. SEE 5/S5.01 & 9/S5.01 FOR WALL TYPE AND HEADER ELEVATION. 2. HEADERS SHALL BE LOCATED AS SHOWN ON ELEVATIONS AND PLANS.
- 3. WHERE STUD HEIGHT EXCEEDS 12'-0", AS INDICATED BY "(LSL)", REPLACE DIMENSIONAL STUDS WITH EQUIVALENT LSL.
- 4. ALL INTERIOR JAMBS SHAL BE TYPE T-0 TYP, UNO. 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO.
- 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.
- 7. ATTACH 3-1/2 TRIMMER STUDS TO KING STUDS PER 2/S5.03.
- 8. PROVIDE (2) A35 FRAMING ANCHORS TOP AND BOT FOR TYPE T-7, T-8 AND T-9 KING STUDS.
- 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES

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FOUNDATION

PLAN

S2.01

5/23/23 3/21/24



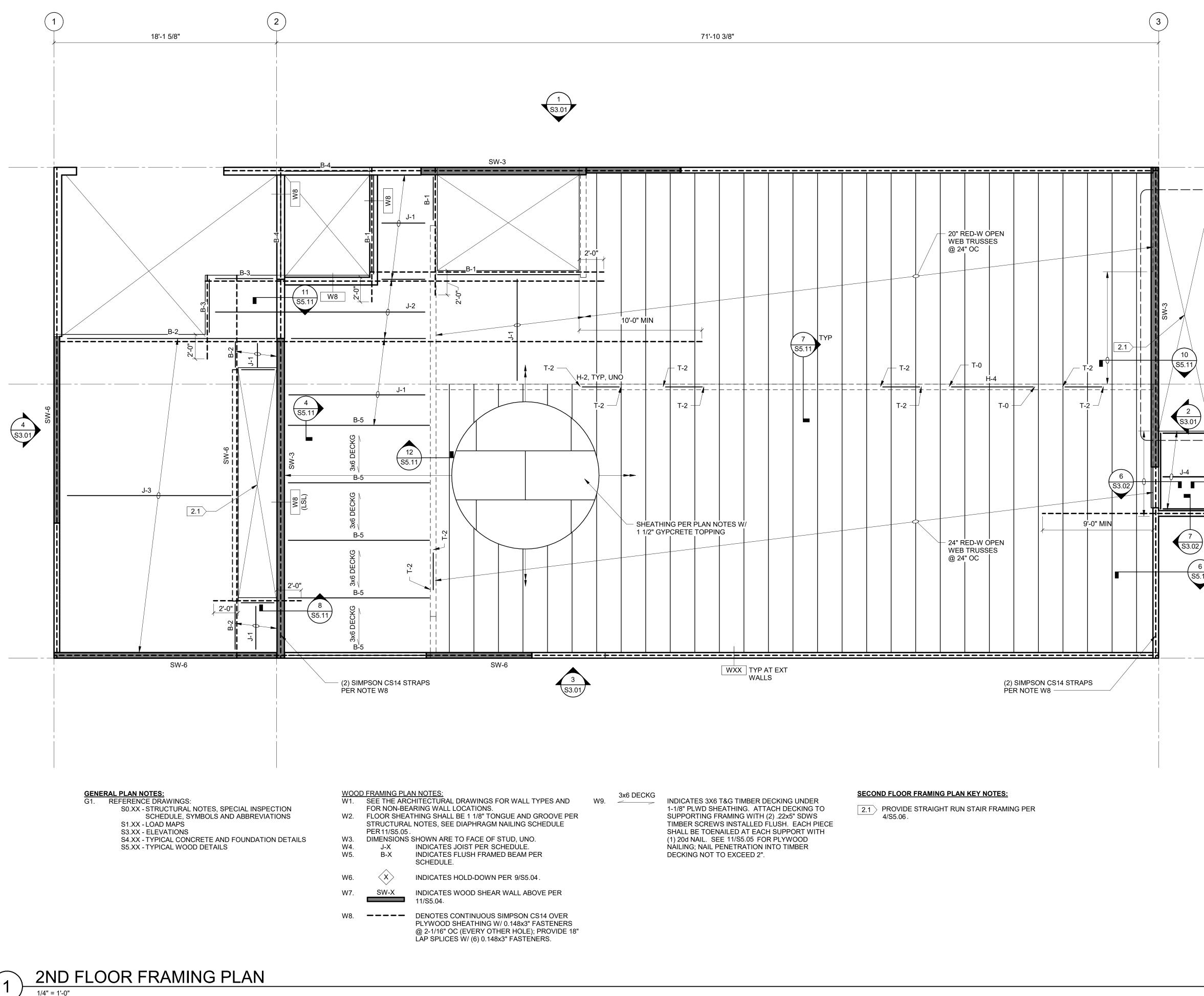


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-----(A)

S3.02

B

S5.06

8

S3.02

-(C)

 $6 \setminus TYP,$ S5.11 UNO

POST SCHEDULE		
TYPE MARK	ТҮРЕ	
P-1	(2) 2x6	
P-2	(7) 2x6	
P-3	5-1/4"x11-7/8"	
P-4	(6) 2x6	

BEAM SCHEDULE		
TYPE MARK	ТҮРЕ	
B-1	5-1/8"x12" GLULAM	
B-2	5-1/8"x18" GLULAM	
B-3	5-1/8"x16 1/2" GLULAM	
B-4	6-3/4"x12" GLULAM	
B-5	6-3/4"x9" GLULAM	

HEADER SCHEDULE			
ALL TYPE AND/OR TYPE MARK HEADER SIZE		MAX ROUGH OPENING WIDTH	
H-0	(1) LSL 1-3/4x7-1/4	4'-0"	
H-1	(2) LSL 1-3/4x7-1/4	SEE ELEVATION	
H-2	LSL 3-1/2x5-1/2	SEE ELEVATION	
H-3	LSL 3-1/2x9-1/2	SEE ELEVATION	
H-4	LSL 5-1/4x11-7/8	SEE ELEVATION	
H-5	PSL 5-1/4x11-7/8	SEE ELEVATION	
H-6	HSS5x4x3/16	SEE ELEVATION	

JAMB SCHEDULE			
TYPE MARK	TRIMMER STUDS	KING STUDS	COMMENTS
T-0	(2) LSL 1-1/2x5-1/2	(1) 2x6	NOTE 6
T-1	(1) 2x6	(1) 2x6	NOTE 6
T-2	(2) 2x6	(1) 2x6	NOTE 6
T-3	(1) 2x6	(2) 2x6	NOTE 6
T-4	(1) 2x8	(1) 2x8	NOTE 6
T-5	(1) LSL 1-1/2x7-1/4	LSL 1-1/2x7-1/4	NOTE 6
T-6	LSL 1-1/2x7-1/4	(2) LSL 1-1/2x7-1/4	NOTE 6
T-7	LSL 1-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8
T-8	LSL 3-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8
T-9	PSL 3-1/2x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	NOTES 7 & 8

x5-1/2	PSL 5-1/4X7 (PLANK) NO	
x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	
JC	DIST SCHEDULE	
TYPE MARK TYPE AND SPACING		
J-1 16" RED-I65 @ 24" OC		;
J-2 16" RED-I65 @ 12" OC		;
J-3 18" RED-I65 @ 16" OC		;

2x12 @ 24" OC

CHEDULE	

SIDD SCHEDULE TYPE TVDE

J-4

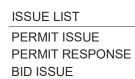
I YPE MARK	TYPE	NOTES
S-1	2x6 @ 16" OC	-
S-2	2x8 @ 16" OC	SEE NOTE 3
S-3	LSL 1-1/2x5-1/2 @ 16" OC	-
S-4	(2) LSL 1-3/4x5-1/2 @ 16" OC	-
S-5	LSL 1-1/2x7-1/4 @ 16" OC	-
S-6	(2) LSL 1-1/2x7-1/4 @ 16" OC	-

STRUCTURAL WALL STUD SCHEDULE

STUDS	NOTES
2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO
(2) 2x6 @ 16" OC	-
2x6 @ 12" OC	-
-	SEE S3.01 FRAMING ELEVATIONS
2x8 @ 16" OC	SEE NOTE 3
	2x6 @ 16" OC (2) 2x6 @ 16" OC 2x6 @ 12" OC -

SCHEDULE NOTES:

- 1. SEE 5/S5.01 & 9/S5.01 FOR WALL TYPE AND HEADER ELEVATION. 2. HEADERS SHALL BE LOCATED AS SHOWN ON ELEVATIONS AND PLANS.
- 3. WHERE STUD HEIGHT EXCEEDS 12'-0", AS INDICATED BY "(LSL)", REPLACE DIMENSIONAL STUDS WITH EQUIVALENT LSL.
- 4. ALL INTERIOR JAMBS SHAL BE TYPE T-0 TYP, UNO.
- 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO. 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.
- 7. ATTACH 3-1/2 TRIMMER STUDS TO KING STUDS PER 2/S5.03.
- 8. PROVIDE (2) A35 FRAMING ANCHORS TOP AND BOT FOR TYPE T-7, T-8 AND T-9 KING STUDS.
- 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES



2ND FLOOR

S2.02

FRAMING PLAN

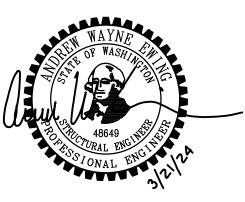
5/23/23 7/17/23 3/21/24

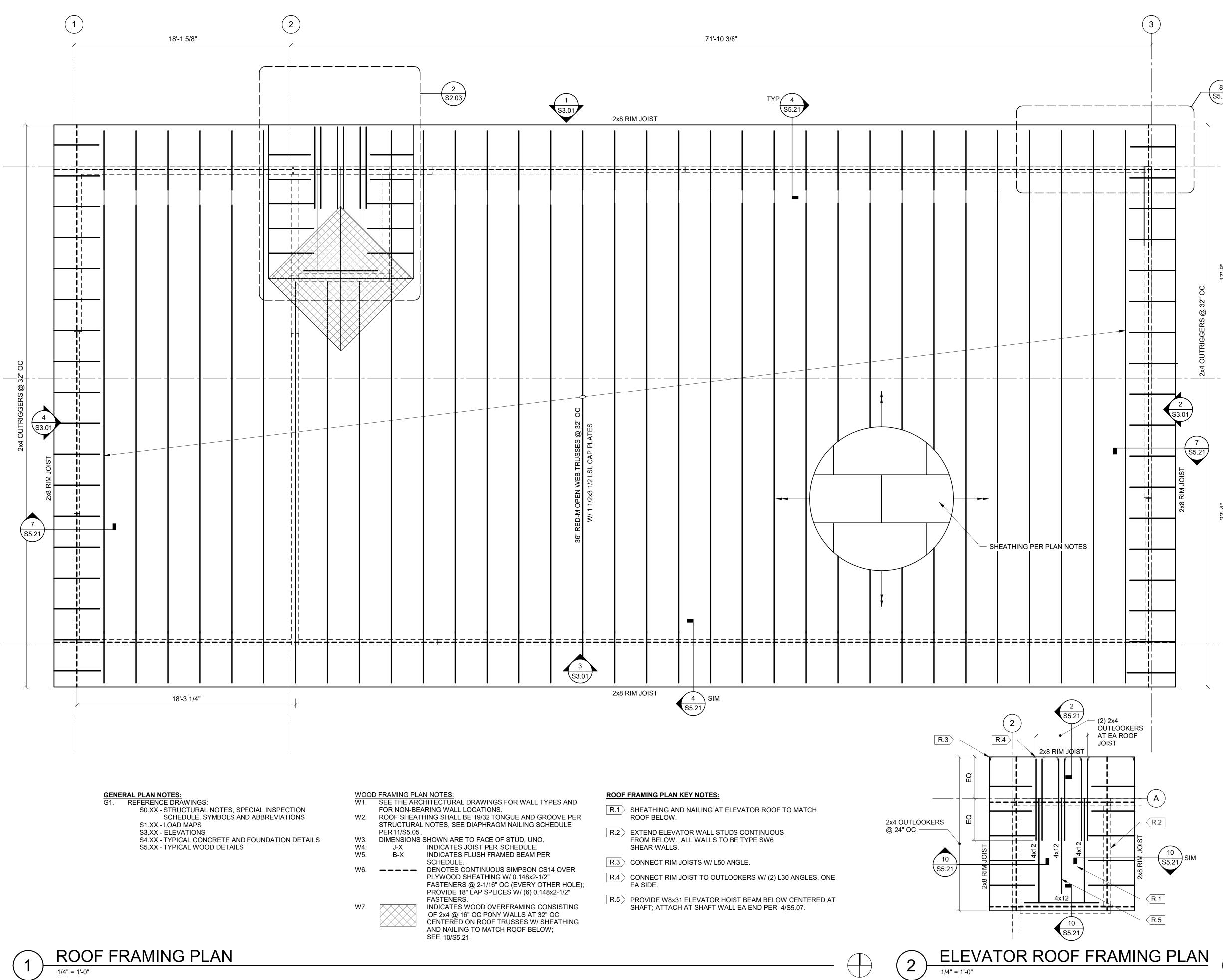






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POST SCHEDULE	
TYPE MARK TYPE	
P-1	(2) 2x6
P-2	(7) 2x6
P-3	5-1/4"x11-7/8"
P-4	(6) 2x6

BEAM SCHEDULE		
ТҮРЕ		
5-1/8"x12" GLULAM		
5-1/8"x18" GLULAM		
5-1/8"x16 1/2" GLULAM		
6-3/4"x12" GLULAM		
6-3/4"x9" GLULAM		

8 (\$5.21) TYP

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(8)

S5.21

-(A)

(12) (S3.02)

----(C)

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HEADER SCHEDULE			
HEADER SIZE	MAX ROUGH OPENING WIDTH		
(1) LSL 1-3/4x7-1/4	4'-0"		
(2) LSL 1-3/4x7-1/4	SEE ELEVATION		
LSL 3-1/2x5-1/2	SEE ELEVATION		
LSL 3-1/2x9-1/2	SEE ELEVATION		
LSL 5-1/4x11-7/8	SEE ELEVATION		
PSL 5-1/4x11-7/8	SEE ELEVATION		
HSS5x4x3/16	SEE ELEVATION		
	HEADER SIZE (1) LSL 1-3/4x7-1/4 (2) LSL 1-3/4x7-1/4 LSL 3-1/2x5-1/2 LSL 3-1/2x9-1/2 LSL 5-1/4x11-7/8 PSL 5-1/4x11-7/8		

JAMB SCHEDULE			
TYPE MARK	TRIMMER STUDS	KING STUDS	COMMENTS
T-0	(2) LSL 1-1/2x5-1/2	(1) 2x6	NOTE 6
T-1	(1) 2x6	(1) 2x6	NOTE 6
T-2	(2) 2x6	(1) 2x6	NOTE 6
T-3	(1) 2x6	(2) 2x6	NOTE 6
T-4	(1) 2x8	(1) 2x8	NOTE 6
T-5	(1) LSL 1-1/2x7-1/4	LSL 1-1/2x7-1/4	NOTE 6
T-6	LSL 1-1/2x7-1/4	(2) LSL 1-1/2x7-1/4	NOTE 6
T-7	LSL 1-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8
T-8	LSL 3-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8
T-9	PSL 3-1/2x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	NOTES 7 & 8

JOIST SCHEDULE		
TYPE MARK		
J-1	16" RED-I65 @ 24" OC	
J-2	16" RED-I65 @ 12" OC	
J-3	18" RED-I65 @ 16" OC	
J-4	2x12 @ 24" OC	

STUD SCHEDULE		
TYPE MARK	TYPE NOTES	
S-1	2x6 @ 16" OC	-
S-2	2x8 @ 16" OC SEE NOTE 3	
S-3	LSL 1-1/2x5-1/2 @ 16" OC -	
S-4	-4 (2) LSL 1-3/4x5-1/2 @ 16" OC -	
S-5	LSL 1-1/2x7-1/4 @ 16" OC -	
S-6	(2) LSL 1-1/2x7-1/4 @ 16" OC -	

STRUCTURAL WALL STUD SCHEDULE		
MARK STUDS NOTES		NOTES
W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO
W6A	(2) 2x6 @ 16" OC	-
W6B	2x6 @ 12" OC	-
WXX	-	SEE S3.01 FRAMING ELEVATIONS
W8	2x8 @ 16" OC	SEE NOTE 3

SCHEDULE NOTES:

- 1. SEE 5/S5.01 & 9/S5.01 FOR WALL TYPE AND HEADER ELEVATION. 2. HEADERS SHALL BE LOCATED AS SHOWN ON ELEVATIONS AND PLANS.
- 3. WHERE STUD HEIGHT EXCEEDS 12'-0", AS INDICATED BY "(LSL)", REPLACE DIMENSIONAL STUDS WITH EQUIVALENT LSL.
- 4. ALL INTERIOR JAMBS SHAL BE TYPE T-0 TYP, UNO.
- 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO. 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.
- 7. ATTACH 3-1/2 TRIMMER STUDS TO KING STUDS PER 2/S5.03. 8. PROVIDE (2) A35 FRAMING ANCHORS TOP AND BOT FOR TYPE T-7, T-8
- AND T-9 KING STUDS. 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES

ISSUE LIST PERMIT ISSUE BID ISSUE

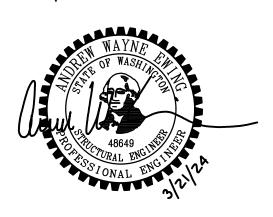
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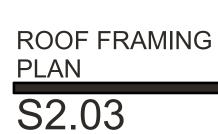
FREIHEIT ARCHITECTURE

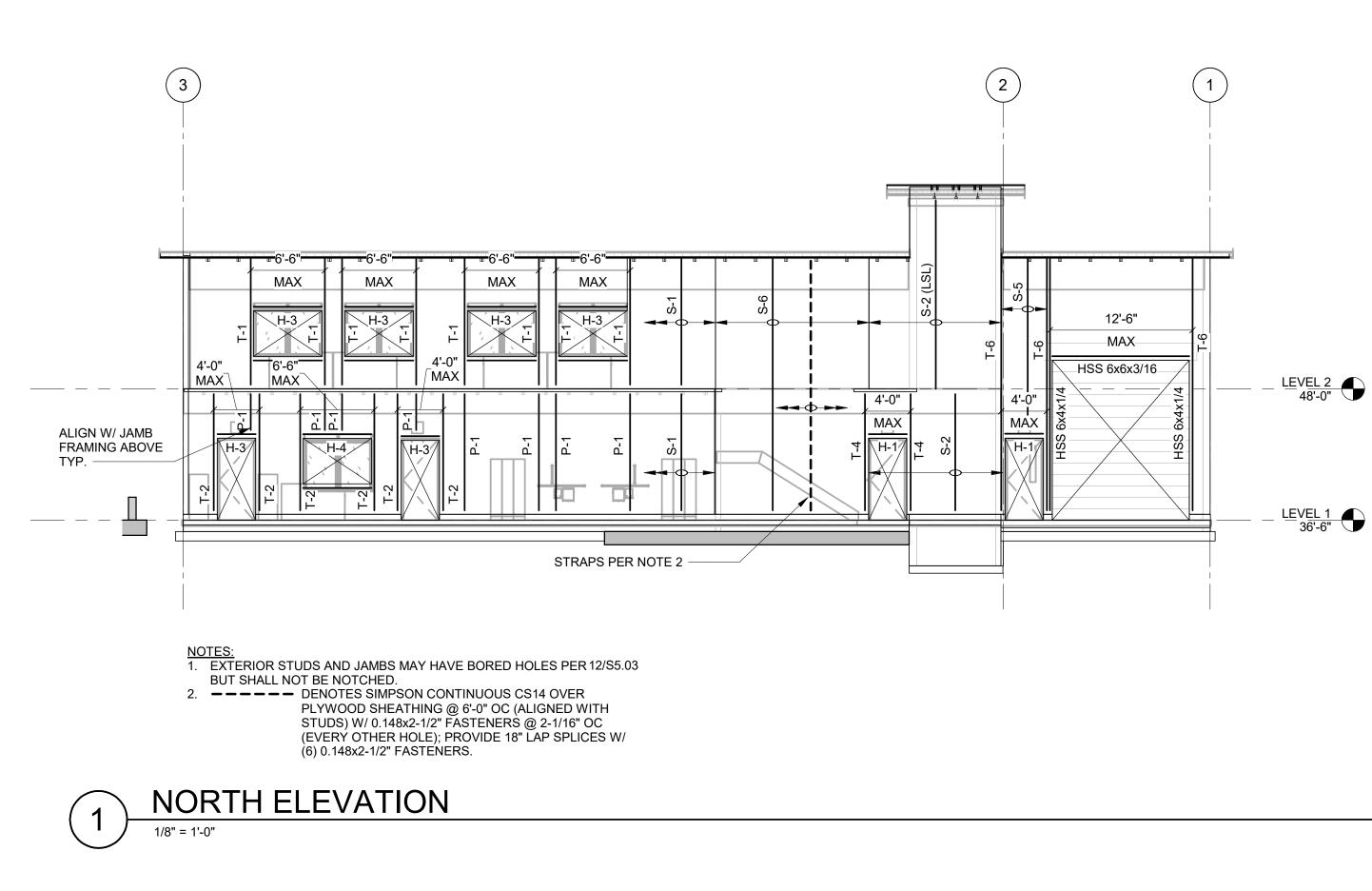


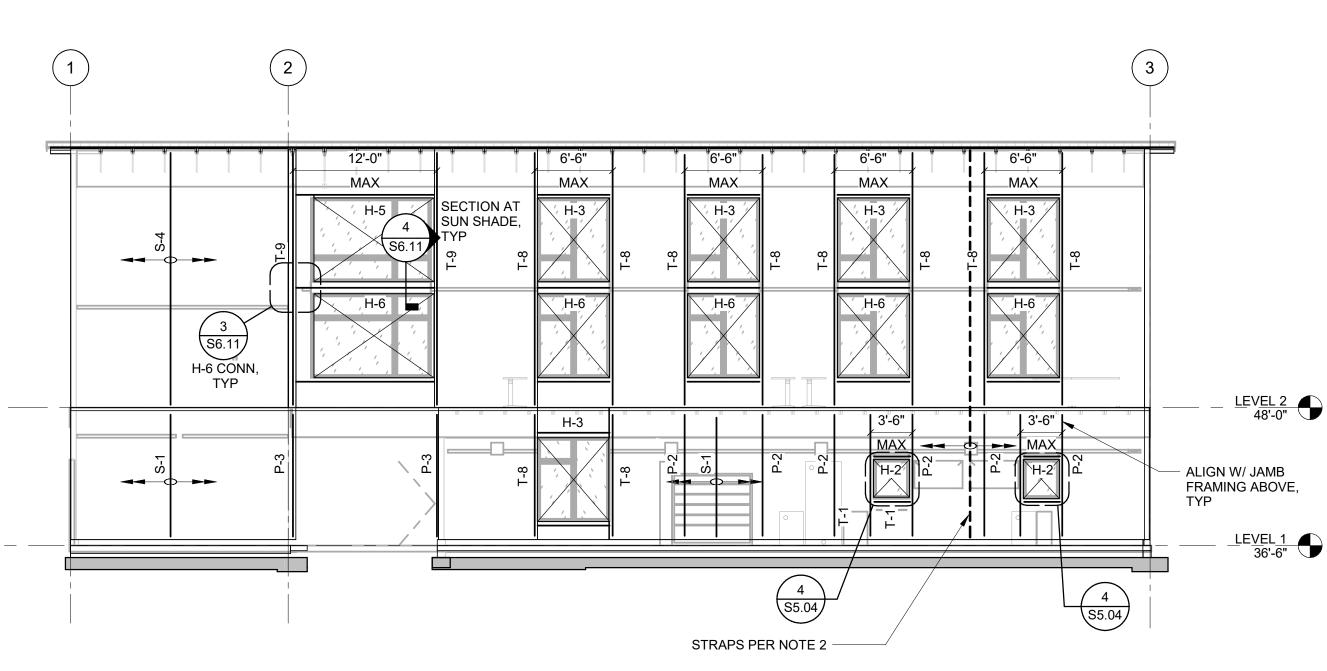


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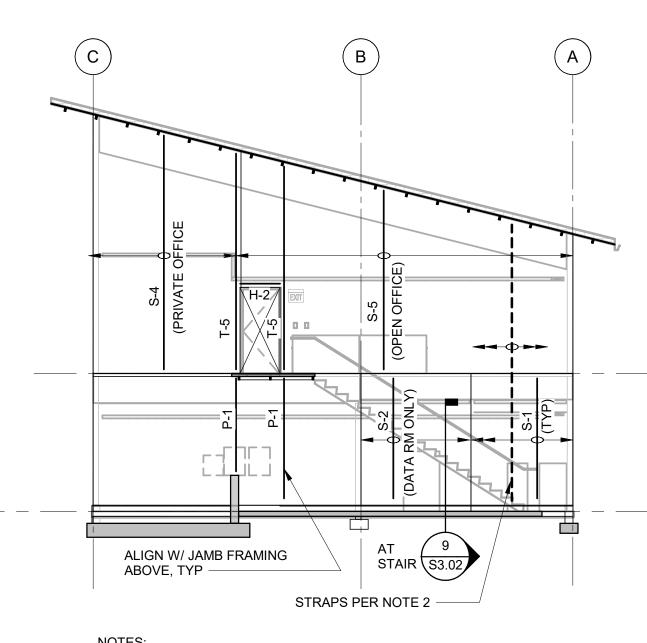
3

1/8" = 1'-0"

SOUTH ELEVATION

NOTES:
 EXTERIOR STUDS AND JAMBS MAY HAVE BORED HOLES PER 12/S5.03 BUT SHALL NOT BE NOTCHED.
 DENOTES SIMPSON CONTINUOUS CS14 OVER PLYWOOD SHEATHING @ 4'-0" OC (ALIGNED WITH STUDS) W/ 0.148x2-1/2" FASTENERS @ 2-1/16" OC (EVEPY OTHER HOLE): PROVIDE 18" LAP SPLICES W/

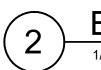
(EVERY OTHER HOLE); PROVIDE 18" LAP SPLICES W/ (6) 0.148x2-1/2" FASTENERS.



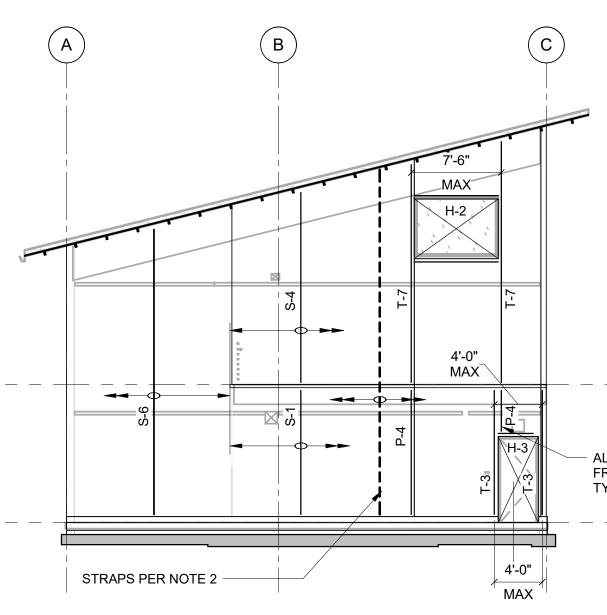
LEVEL 2 48'-0"

LEVEL 1 36'-6"

NOTES:
1. EXTERIOR STUDS AND JAMBS MAY HAVE BORED HOLES PER 12/S5.03 BUT SHALL NOT BE NOTCHED.
2. - - - - DENOTES SIMPSON CONTINUOUS CS14 OVER PLYWOOD SHEATHING @ 10'-0" OC (ALIGNED WITH CTUDE) W/ 0.148v2-1/2" FASTENERS @ 2-1/16" OC STUDS) W/ 0.148x2-1/2" FASTENERS @ 2-1/16" OC (EVERY OTHER HOLE); PROVIDE 18" LAP SPLICES W/ (6) 0.148x2-1/2" FASTENERS.



EAST ELEVATION



LEVEL 2 48'-0" ALIGN W/ JAMB

FRAMING ABOVE, TYP LEVEL 1 36'-6"

<u>NOTES:</u>
1. EXTERIOR STUDS AND JAMBS MAY HAVE BORED HOLES PER 12/S5.03 BUT SHALL NOT BE NOTCHED.
2. — — — — DENOTES SIMPSON CONTINUOUS CS14 OVER PLYWOOD SHEATHING @ 10'-0" OC (ALIGNED WITH STUDS) W/ 0.148x2-1/2" FASTENERS @ 2-1/16" OC (TVEDY OTHER HOLE): PROVIDE 18" LAP SPLICES W/ (EVERY OTHER HOLE); PROVIDE 18" LAP SPLICES W/ (6) 0.148x2-1/2" FASTENERS.



POST SCHEDULE					
TYPE TYPE					
(2) 2x6					
(7) 2x6					
5-1/4"x11-7/8"					
(6) 2x6					

B	BEAM SCHEDULE						
TYPE MARK	ТҮРЕ						
B-1	5-1/8"x12" GLULAM						
B-2	5-1/8"x18" GLULAM						
B-3	5-1/8"x16 1/2" GLULAM						
B-4	6-3/4"x12" GLULAM						
B-5	6-3/4"x9" GLULAM						

HEADER SCHEDULE								
WALL TYPE AND/OR TYPE MARK	MAX ROUGH OPENING WIDTH							
H-0	(1) LSL 1-3/4x7-1/4	4'-0"						
H-1	(2) LSL 1-3/4x7-1/4	SEE ELEVATION						
H-2	LSL 3-1/2x5-1/2	SEE ELEVATION						
H-3	LSL 3-1/2x9-1/2	SEE ELEVATION						
H-4	LSL 5-1/4x11-7/8	SEE ELEVATION						
H-5	PSL 5-1/4x11-7/8	SEE ELEVATION						
H-6	HSS5x4x3/16	SEE ELEVATION						

	JAMB SCHEDULE							
TYPE MARK	TRIMMER STUDS	KING STUDS	COMMENTS					
T-0	(2) LSL 1-1/2x5-1/2	(1) 2x6	NOTE 6					
T-1	(1) 2x6	(1) 2x6	NOTE 6					
T-2	(2) 2x6	(1) 2x6	NOTE 6					
T-3	(1) 2x6	(2) 2x6	NOTE 6					
T-4	(1) 2x8	(1) 2x8	NOTE 6					
T-5	(1) LSL 1-1/2x7-1/4	LSL 1-1/2x7-1/4	NOTE 6					
T-6	LSL 1-1/2x7-1/4	(2) LSL 1-1/2x7-1/4	NOTE 6					
T-7	LSL 1-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8					
T-8	LSL 3-1/2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES 7 & 8					
T-9	PSL 3-1/2x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	NOTES 7 & 8					

1/2x7-1/4	LSL 1-1/2x7-1/4	NOT	Ε6
2x7-1/4	(2) LSL 1-1/2x7-1/4	NOT	Έ6
2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES	57
2x5-1/2	PSL 5-1/4x7 (PLANK)	NOTES	57
2x5-1/4	PSL 5-1/4x11-7/8 (PLANK)	NOTES	57
JC	DIST SCHEDULE		
JC TYPE MARK	DIST SCHEDULE		
TYPE		;	

18" RED-165 @ 16" OC

	J-4	2x12 @ 2	24" OC					
STUD SCHEDULE								
TYPE MARK	-	ГҮРЕ	NOTES					
S-1	2x6 (@ 16" OC	-					
S-2	2x8 (@ 16" OC	SEE NOTE	3				
S-3	LSL 1-1/2x	5-1/2 @ 16" OC	-					
S-4	(2) LSL 1-3/4	x5-1/2 @ 16" OC	-					
S-5	LSL 1-1/2x	7-1/4 @ 16" OC	-					
S-6	(2) LSL 1-1/2	2x7-1/4 @ 16" OC	-					

J-3

ISSUE LIST PERMIT ISSUE PERMIT RESPONSE BID ISSUE

EXTERIOR WALL

FRAMING

S3.01

ELEVATIONS

5/23/23 7/17/23 3/21/24

STRUCTURAL WALL STUD SCHEDULE							
MARK	STUDS	NOTES					
W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO					
W6A	(2) 2x6 @ 16" OC	-					
W6B	2x6 @ 12" OC	-					
WXX	-	SEE S3.01 FRAMING ELEVATIONS					
W8	2x8 @ 16" OC	SEE NOTE 3					

SCHEDULE NOTES: 1. SEE 5/S5.01 & 9/S5.01 FOR WALL TYPE AND HEADER ELEVATION. 2. HEADERS SHALL BE LOCATED AS SHOWN ON ELEVATIONS AND PLANS.

3. WHERE STUD HEIGHT EXCEEDS 12'-0", AS INDICATED BY "(LSL)",

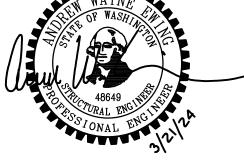
- REPLACE DIMENSIONAL STUDS WITH EQUIVALENT LSL.
 4. ALL INTERIOR JAMBS SHAL BE TYPE T-0 TYP, UNO.
- 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO.
- 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.
- ATTACH 3-1/2 TRIMMER STUDS TO KING STUDS PER 2/S5.03.
 PROVIDE (2) A35 FRAMING ANCHORS TOP AND BOT FOR TYPE T-7, T-8
- AND T-9 KÌNG STUDS.
- 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES

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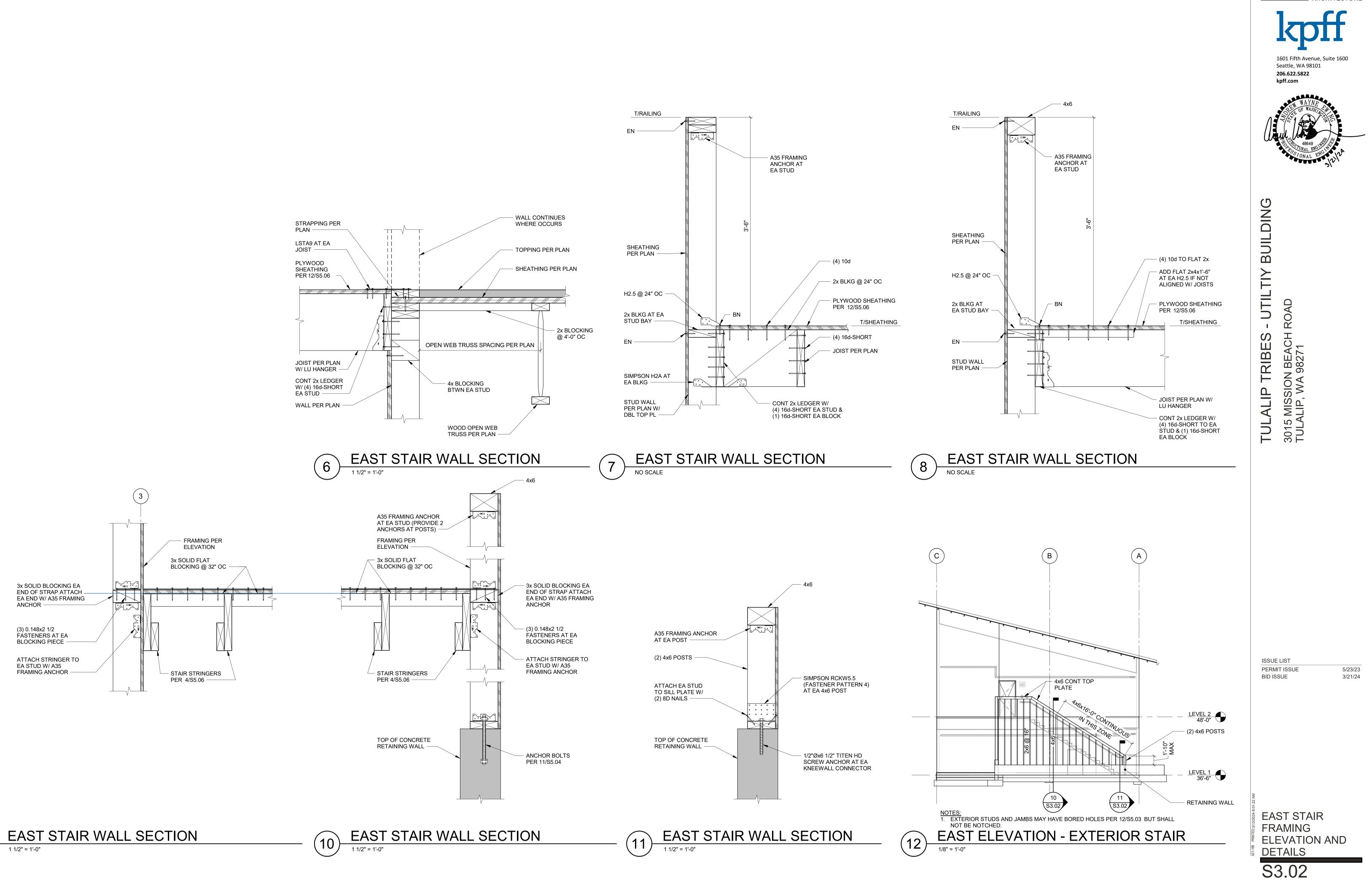
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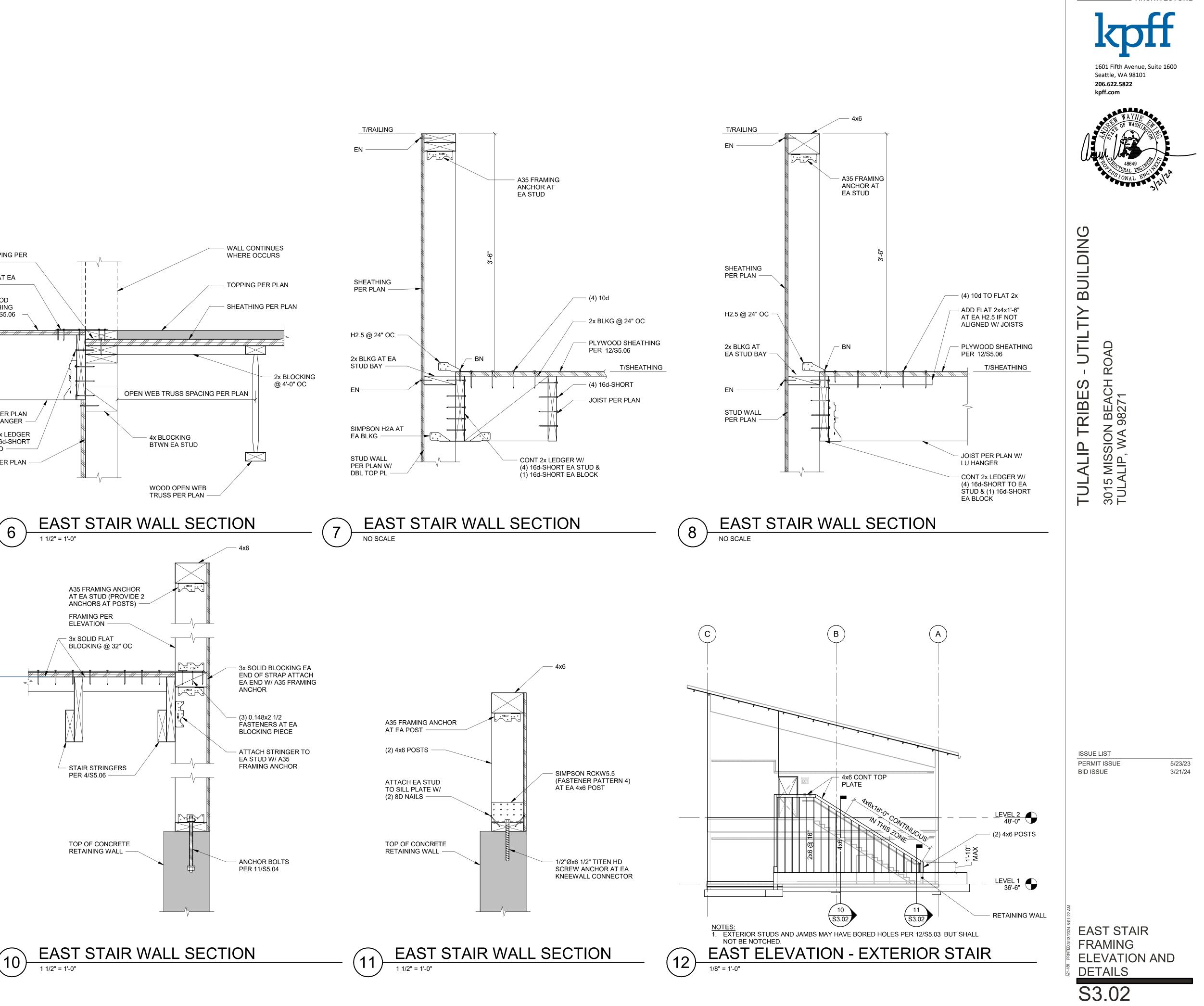
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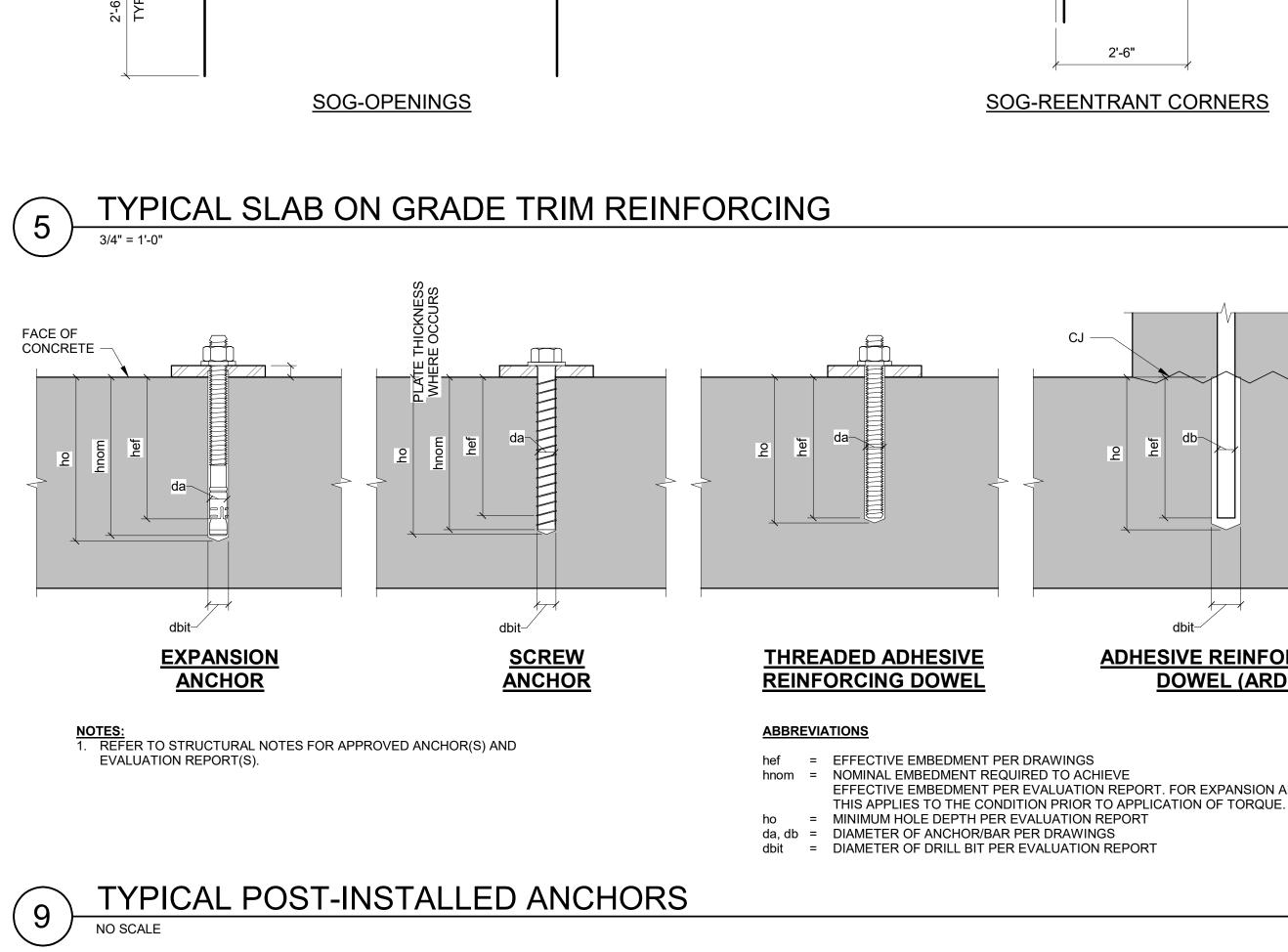
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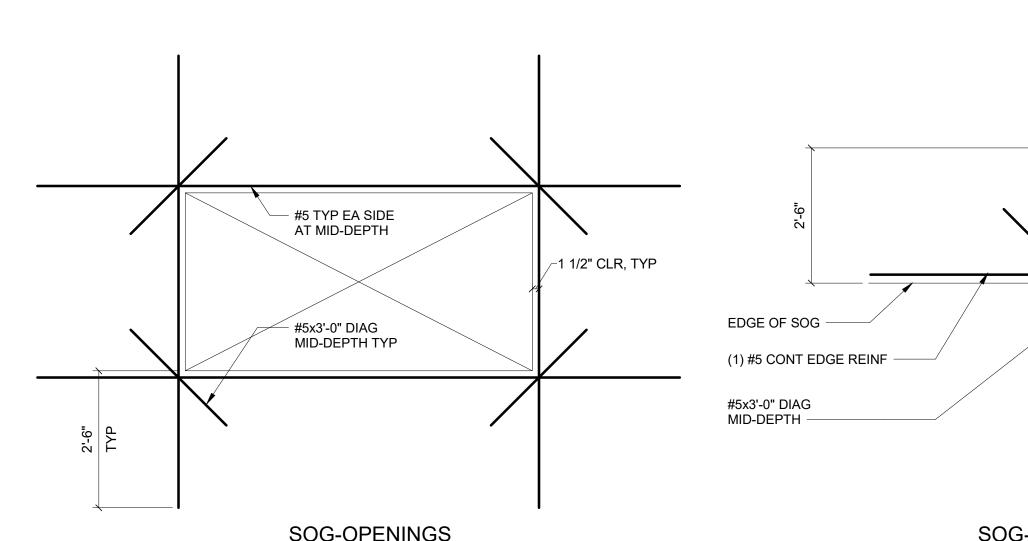


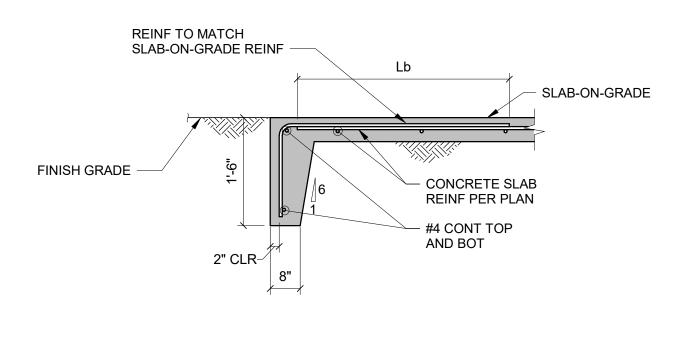


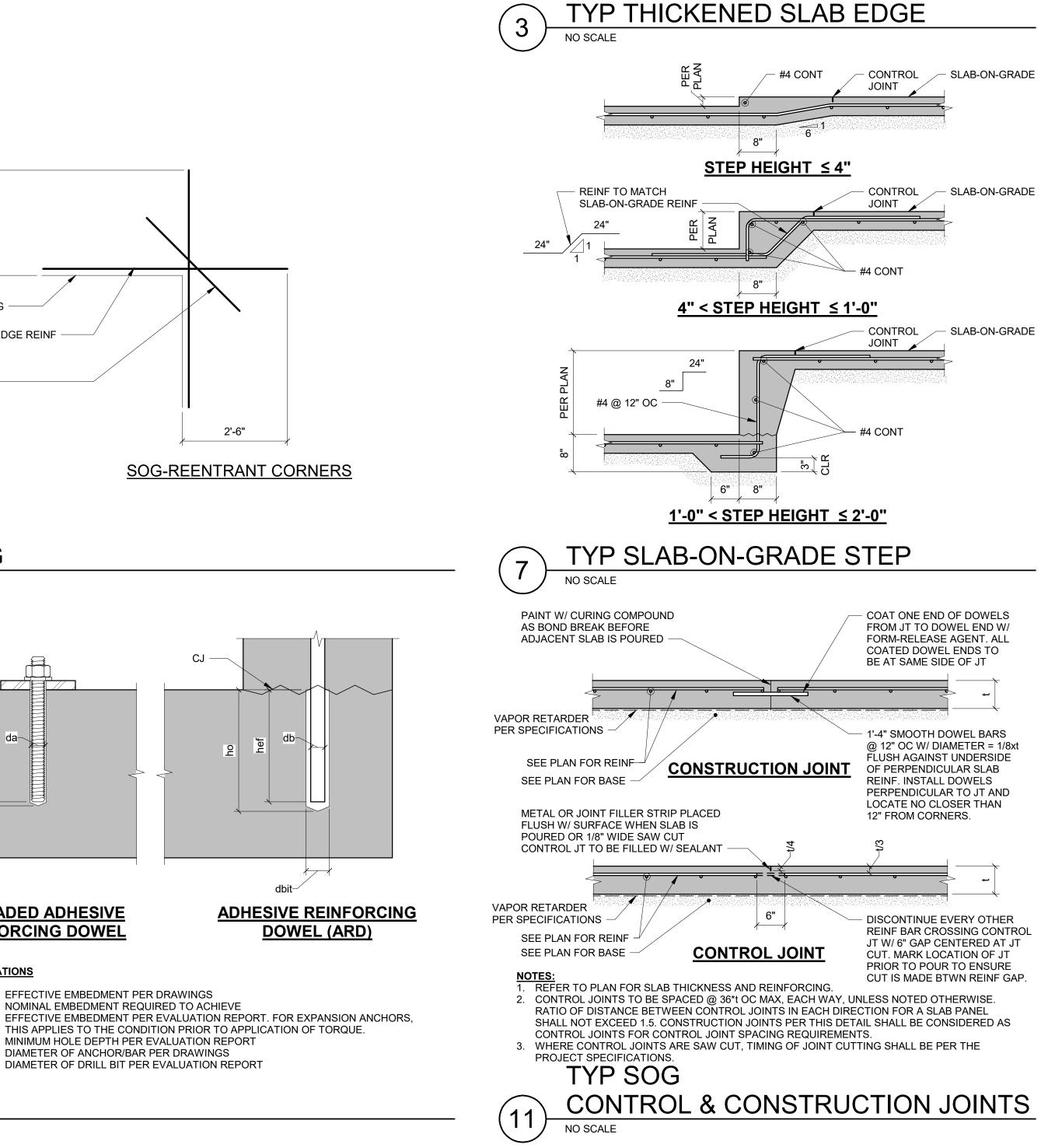
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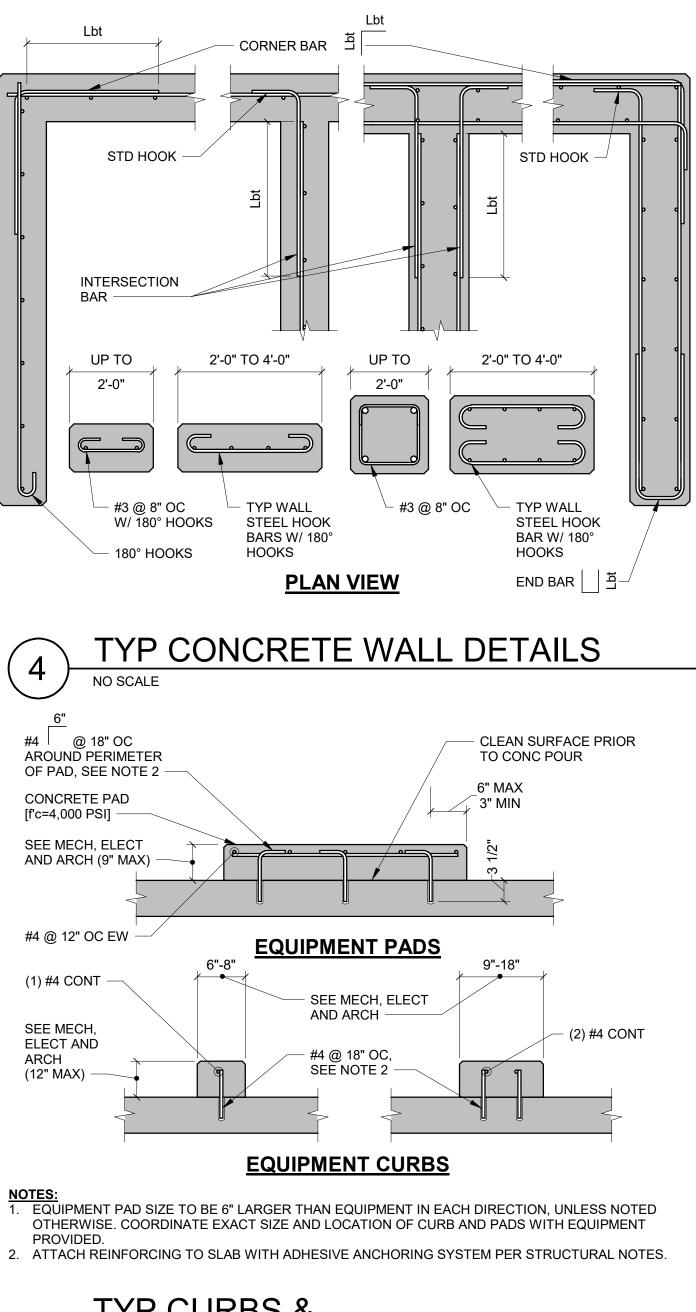








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f' _c = f _y =	3,000 F 60,000 F					_	f' _c = f _y =	4,000 F 60,000 F				
SIZE	Ld	Ldt	Lb	Lbt	Ldh		SIZE	Ld	Ldt	Lb	Lbt	Ldh
#4	22 (33)	28 (43)	28 (43)	37 (56)	11		#4	19 (28)	25 (37)	25 (37)	32 (48)	9
#5	27 (41)	36 (53)	36 (53)	46 (69)	14		#5	24 (36)	31 (46)	31 (46)	40 (60)	12
#6	33 (49)	43 (64)	43 (64)	56 (83)	16		#6	28 (43)	37 (55)	37 (55)	48 (72)	14
#7	48 (72)	62 (93)	62 (93)	81 (121)	19		#7	42 (62)	54 (81)	54 (81)	70 (105)	17
#8	55 (82)	71 (107)	71 (107)	93 (139)	22		#8	47 (71)	62 (92)	62 (92)	80 (120)	19
#9	62 (93)	80 (120)	80 (120)	104 (157)	25		#9	54 (80)	70 (104)	70 (104)	90 (136)	21
#10	70 (104)	90 (136)	90 (136)	118 (176)	28		#10	60 (90)	78 (117)	78 (117)	102 (153)	24
#11	77 (116)	100 (151)	100 (151)	131 (196)	31		#11	67 (100)	87 (130)	87 (130)	113 (170)	27

1. USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.

2. USE LENGTH IN () WHEN BAR COVER IS db OR LESS OR BAR CLEAR

SPACING IS 2db OR LESS. 3. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

ABBREVIATIONS

8

- db = BAR DIAMETER
- Ld = TENSION DEVELOPMENT LENGTH Ldt = TENSION DEVELOPMENT LENGTH FOR A TOP BAR
- Lb = CLASS B LAP SPLICE LENGTH, 1.3 Ld
- Lbt = CLASS B LAP SPLICE LENGTH FOR A TOP BAR, 1.3 Ldt Ldh = TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK

DEVELOPMENT AND SPLICE LENGTH SCHED

12" = 1'-0"



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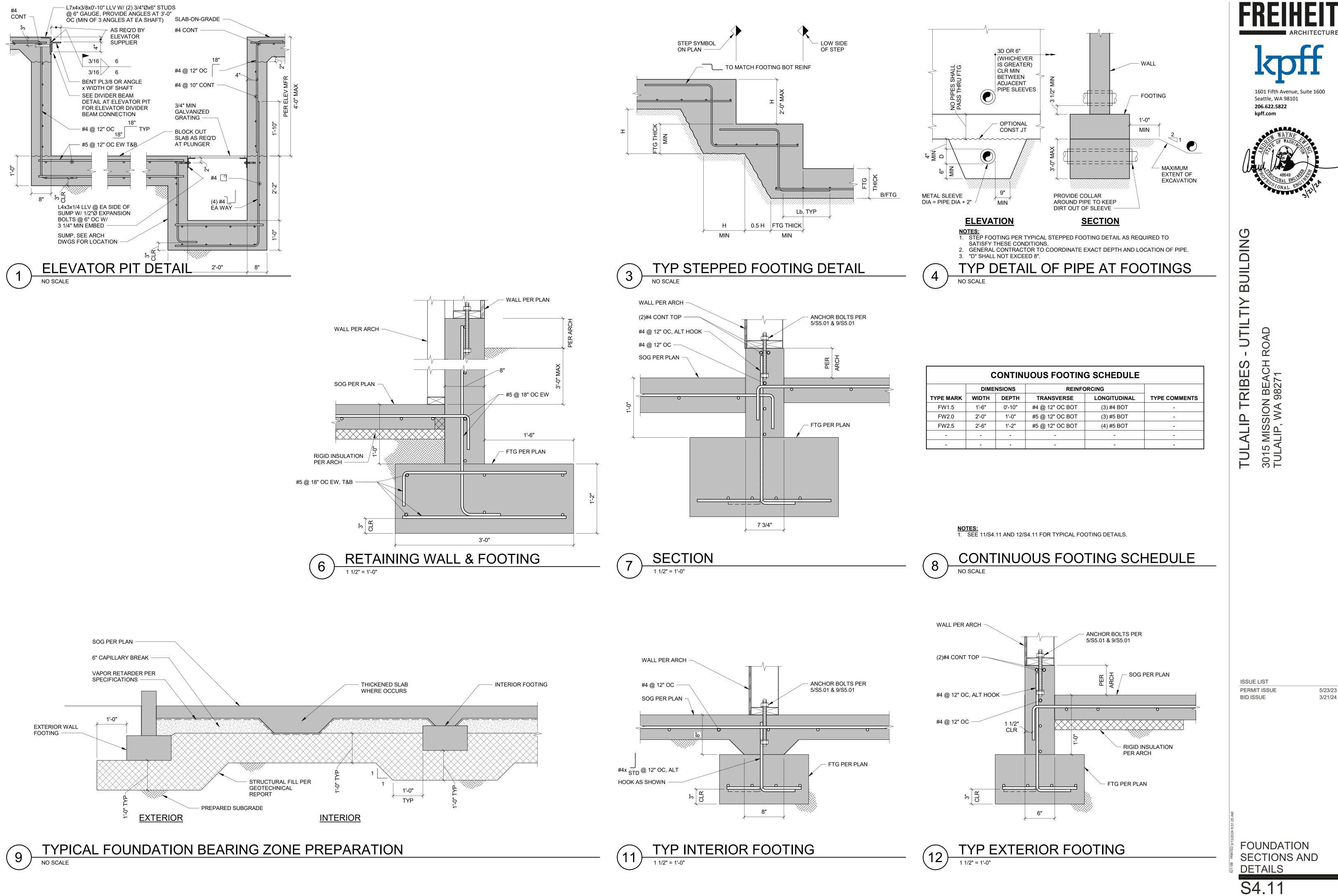
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TYPICAL

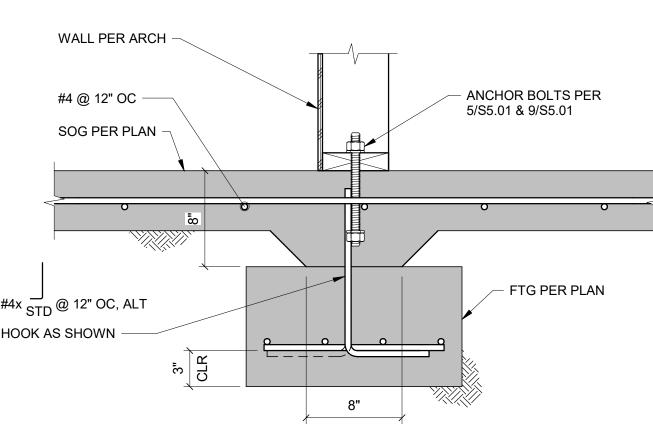
DETAILS

S4.01

CONCRETE



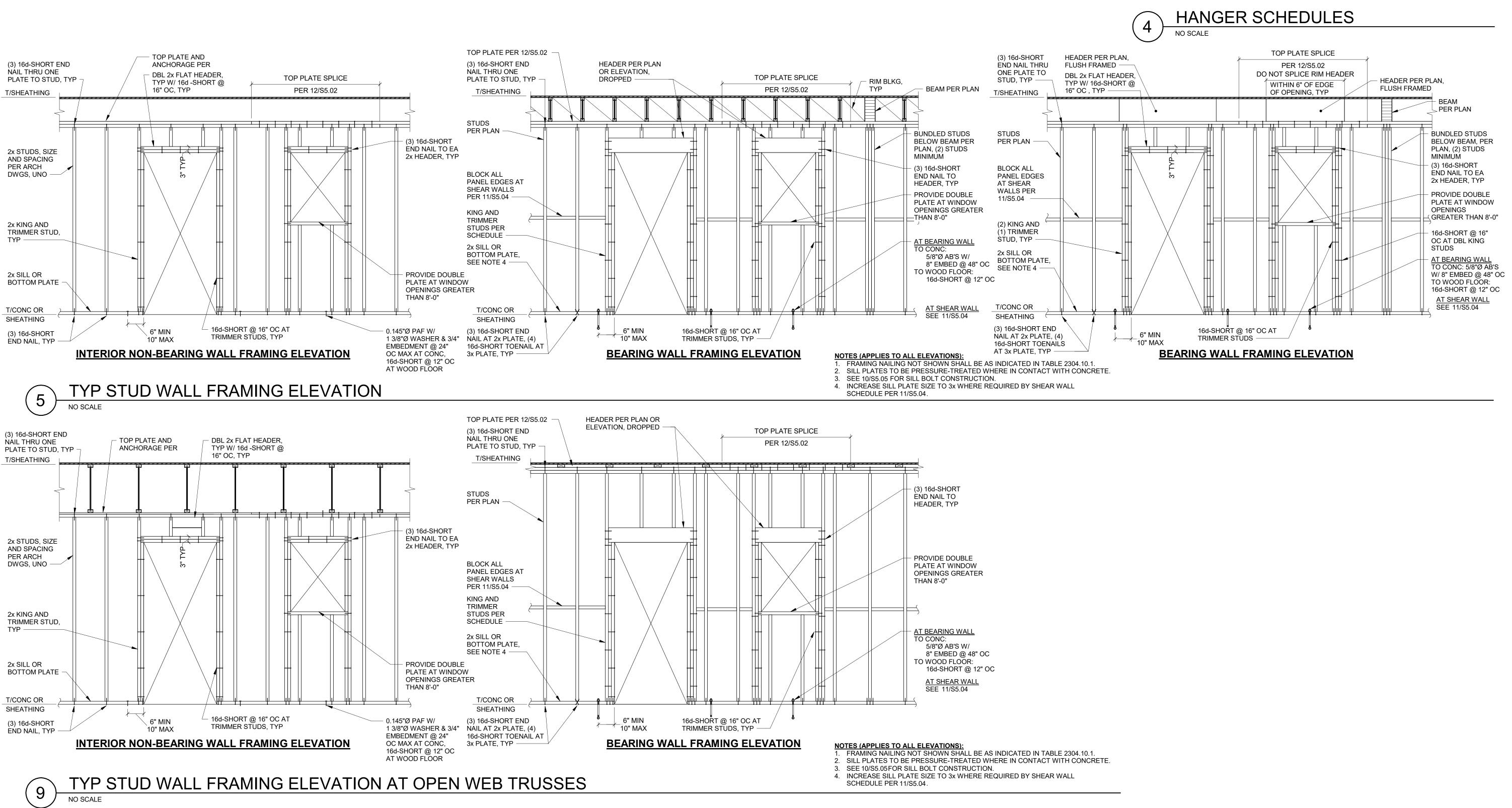




CONTINUOUS FOOTING SCHEDULE								
DIMENSIONS REINFORCING								
TYPE MARK	WIDTH	DEPTH	TRANSVERSE	LONGITUDINAL	TYPE COMMENTS			
FW1.5	1'-6"	0'-10"	#4 @ 12" OC BOT	(3) #4 BOT	-			
FW2.0	2'-0"	1'-0"	#5 @ 12" OC BOT	(3) #5 BOT	-			
FW2.5	2'-6"	1'-2"	#5 @ 12" OC BOT	(4) #5 BOT	-			
-	-	-	-	-	-			
-	-	-	-	-	-			



5/23/23



HANGER SCHEDULE							
MEMBER SIZE FACE MOUNT TOP FLANGE SKEWED							
16" RED-I65	MIU2.56/16	BA2.56/16 (MAX)	-				
18" RED-I65	MIU2.56/18	BA2.56/18 (MIN)	-				
2x4	LUS24	PF24	HU24TF				



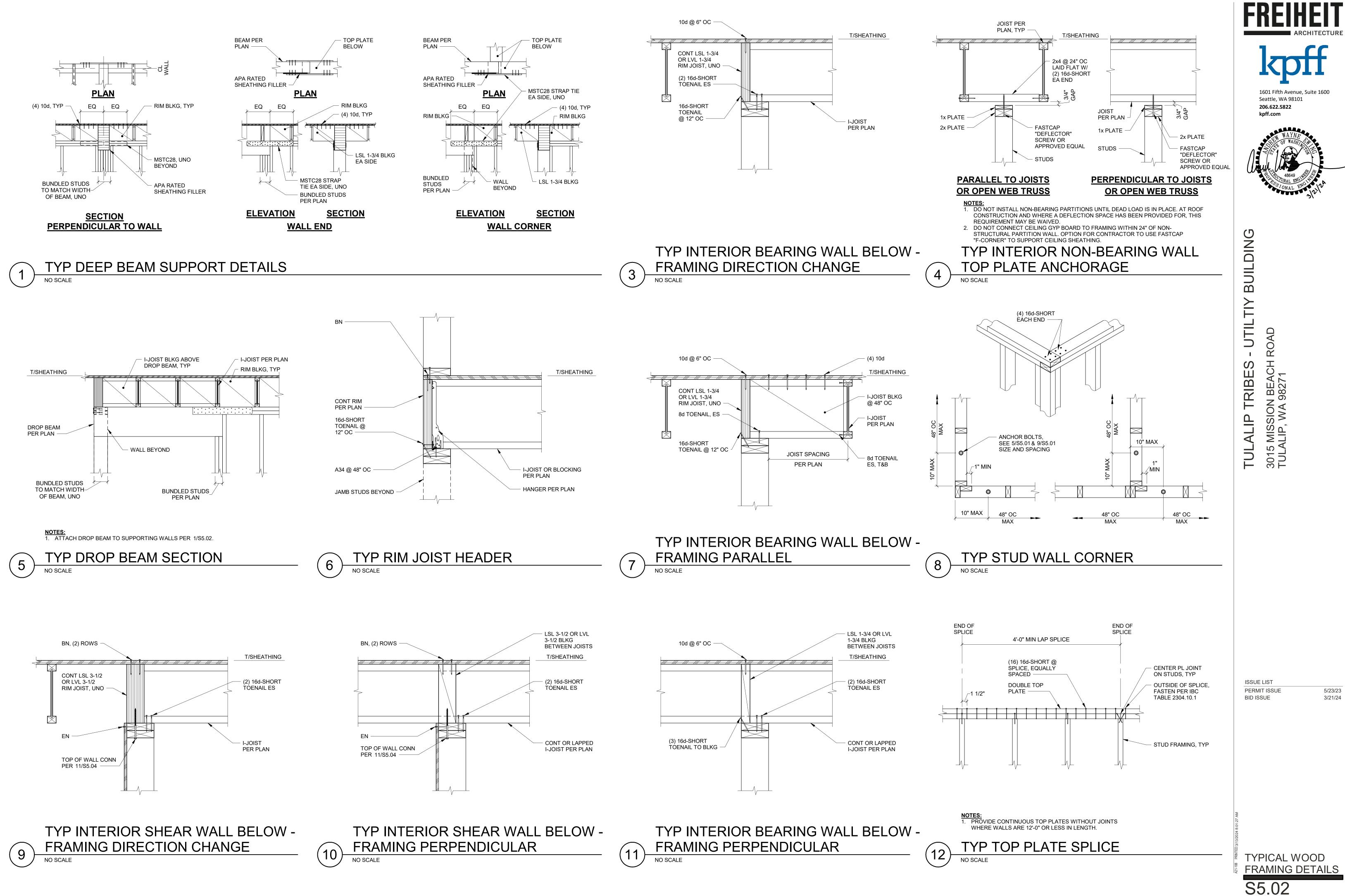
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ISSUE LIST PERMIT ISSUE BID ISSUE

TYPICAL WOOD

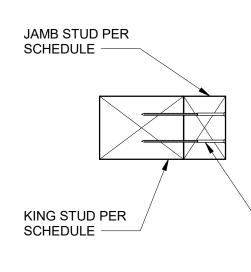
S5.01

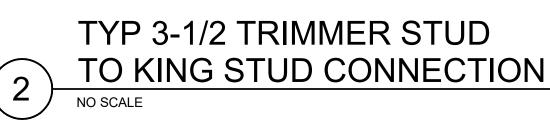
FRAMING DETAILS

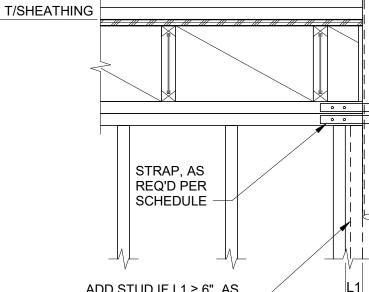


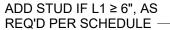
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	BEARING PENETRA
STUD SIZE	MAX HOLE NO STRA ADDED ST
2x4 & 3x4	1"Ø
2x6 & 3x6	1-3/8"\$
2x8 & 3x8	1-3/4"\$

Р	SHEAR W ENETRATI
STUD SIZE	MAX HOLE SI (1) RPS18
2x4 & 3x4	1"Ø
2x6 & 3x6	1-3/8"Ø
2x8 & 3x8	1-3/4"Ø

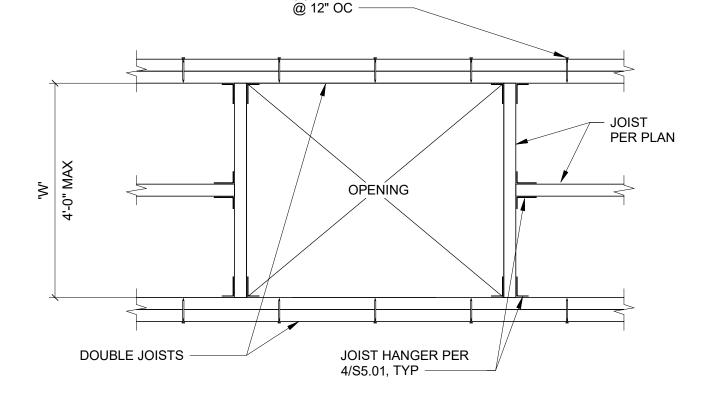


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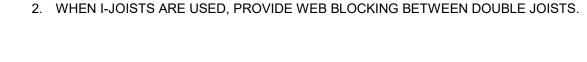
NO SCALE

1. BORED HOLES ONLY. NOTCHES IN WALL PLATES ARE NOT PERMITTED.

- APPROVAL BY THE STRUCTURAL ENGINEER.



(2) ROWS 10d



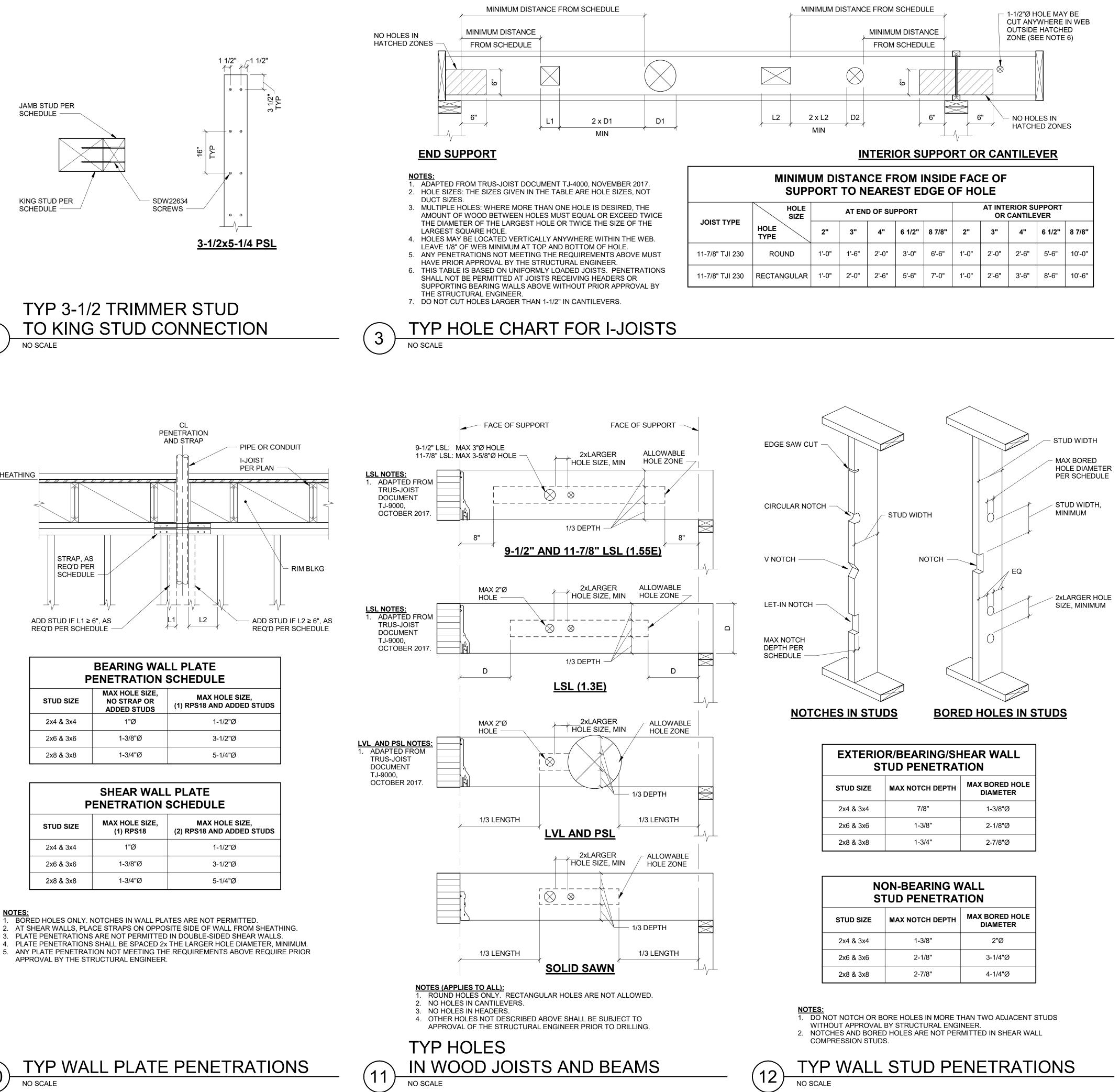
TYP FLOOR OPENING PLAN

1. WHEN OPENING DIMENSION 'W' EXCEEDS 4'-0", REFER TO PLANS FOR FRAMING.

NOTES:

NO SCALE

9



HOLE SIZE					AT INTERIOR SUPPORT OR CANTILEVER					
HOLE TYPE	2"	3"	4"	6 1/2"	8 7/8"	2"	3"	4"	6 1/2"	8 7/8"
ROUND	1'-0"	1'-6"	2'-0"	3'-0"	6'-6"	1'-0"	2'-0"	2'-6"	5'-6"	10'-0"
RECTANGULAR	1'-0"	2'-0"	2'-6"	5'-6"	7'-0"	1'-0"	2'-6"	3'-6"	8'-6"	10'-6"



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EXTERIOR/BEARING/SHEAR WALL STUD PENETRATION					
STUD SIZE	MAX NOTCH DEPTH	MAX BORED HOLE DIAMETER			
2x4 & 3x4	7/8"	1-3/8"Ø			
2x6 & 3x6	1-3/8"	2-1/8"Ø			
2x8 & 3x8	1-3/4"	2-7/8"Ø			

NON-BEARING WALL STUD PENETRATION					
STUD SIZE	MAX NOTCH DEPTH	MAX BORED HOLE DIAMETER			
2x4 & 3x4	1-3/8"	2"Ø			
2x6 & 3x6	2-1/8"	3-1/4"Ø			
2x8 & 3x8	2-7/8"	4-1/4"Ø			

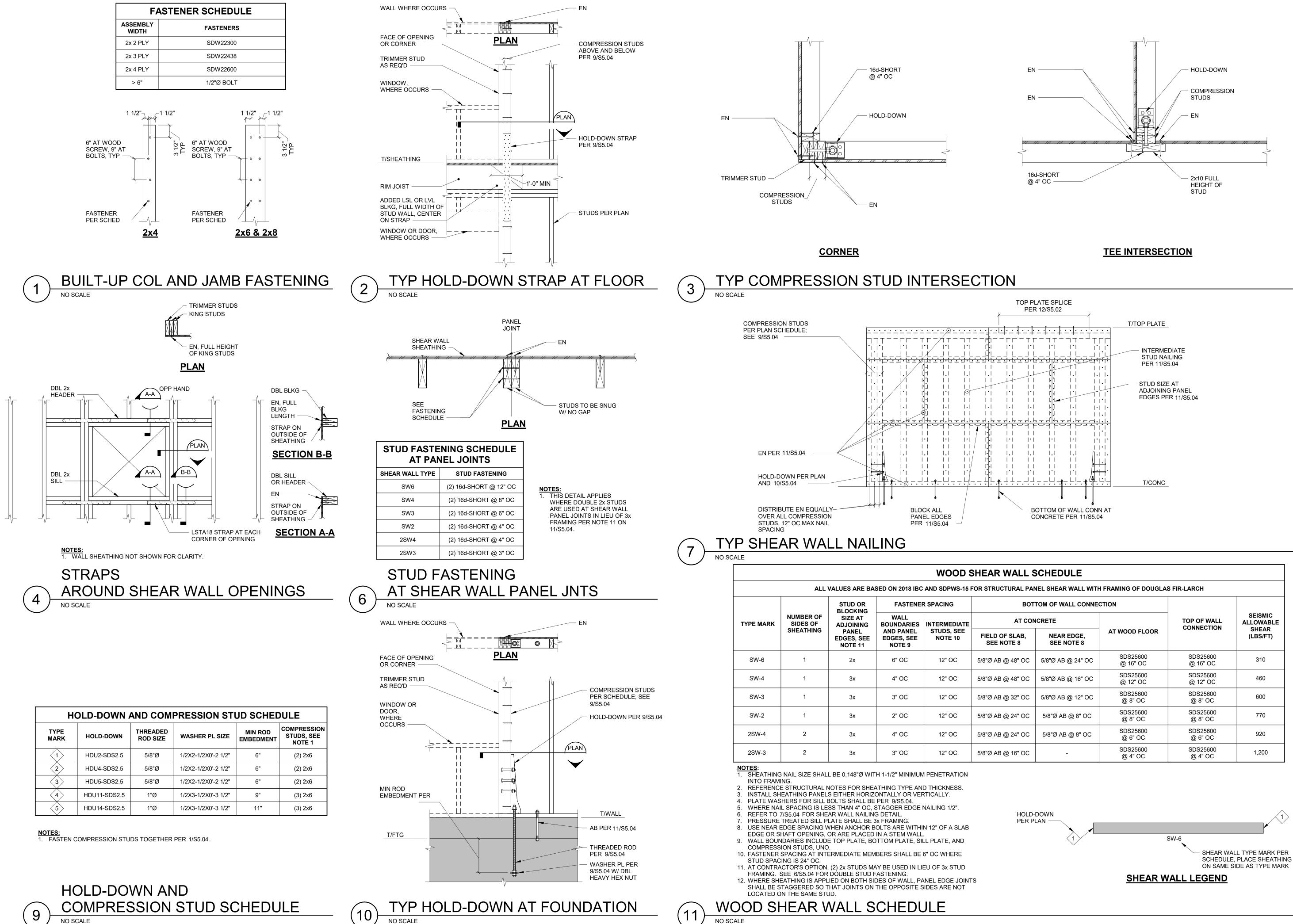
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TYPICAL WOOD

S5.03

FRAMING DETAILS



IRAL PANEL SHEAR WALL WITH FRAMING OF DOUGLAS FIR-LARCH						
BOTTOM OF WALL CONNECTION						
	ICRETE		TOP OF WALL CONNECTION	SEISMIC ALLOWABLE		
SLAB, TE 8	NEAR EDGE, SEE NOTE 8	AT WOOD FLOOR	CONNECTION	SHEAR (LBS/FT)		
48" OC	5/8"Ø AB @ 24" OC	SDS25600 @ 16" OC	SDS25600 @ 16" OC	310		
48" OC	5/8"Ø AB @ 16" OC	SDS25600 @ 12" OC	SDS25600 @ 12" OC	460		
32" OC	5/8"Ø AB @ 12" OC	SDS25600 @ 8" OC	SDS25600 @ 8" OC	600		
24" OC	5/8"Ø AB @ 8" OC	SDS25600 @ 8" OC	SDS25600 @ 8" OC	770		
24" OC	5/8"Ø AB @ 8" OC	SDS25600 @ 6" OC	SDS25600 @ 6" OC	920		
16" OC	-	SDS25600 @ 4" OC	SDS25600 @ 4" OC	1,200		

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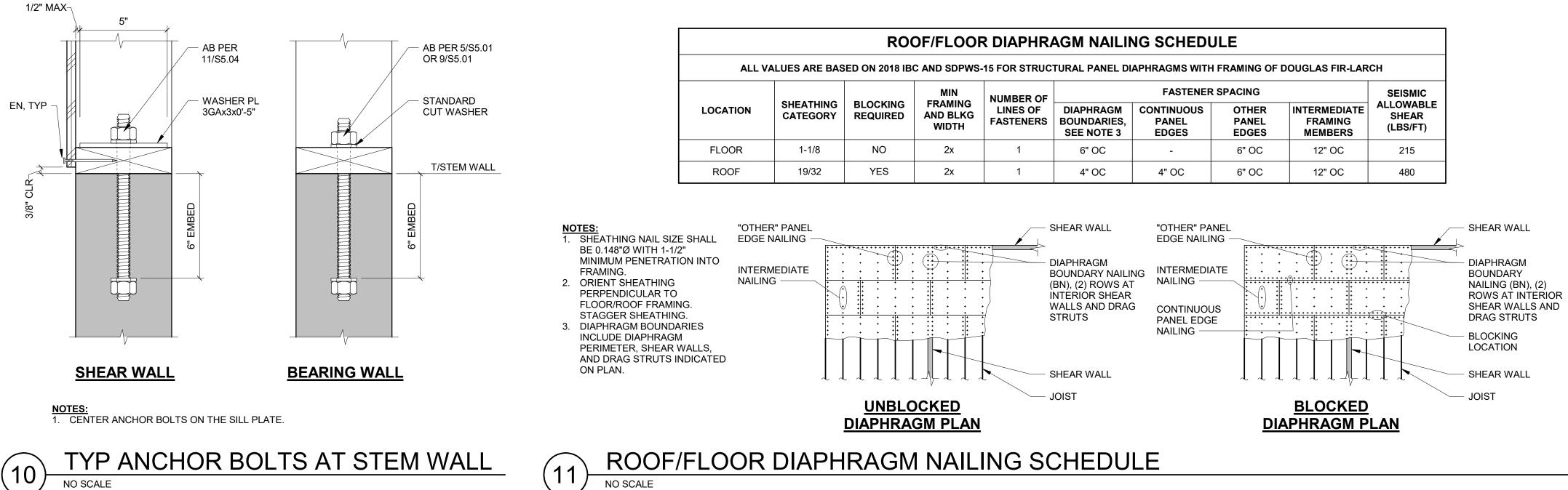
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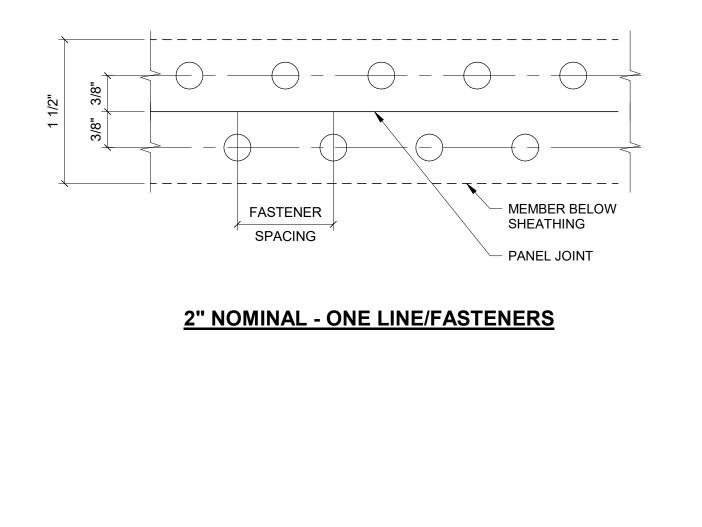
TYPICAL WOOD

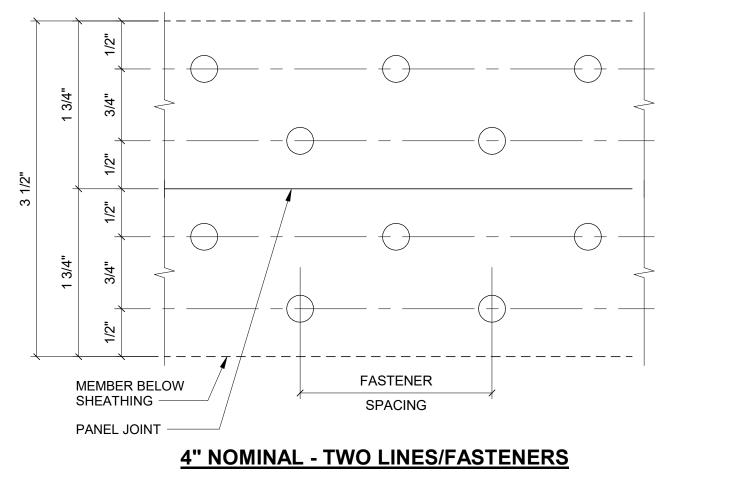
S5.04

FRAMING DETAILS

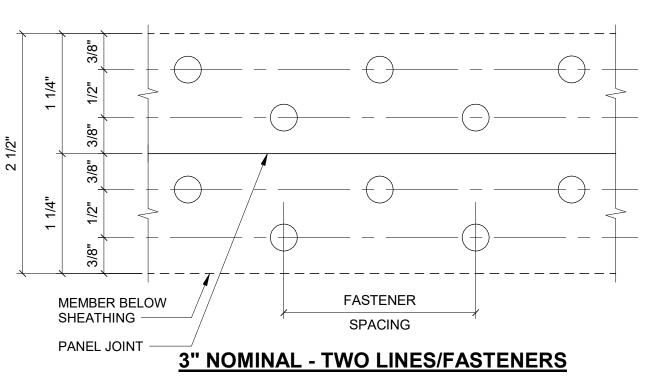


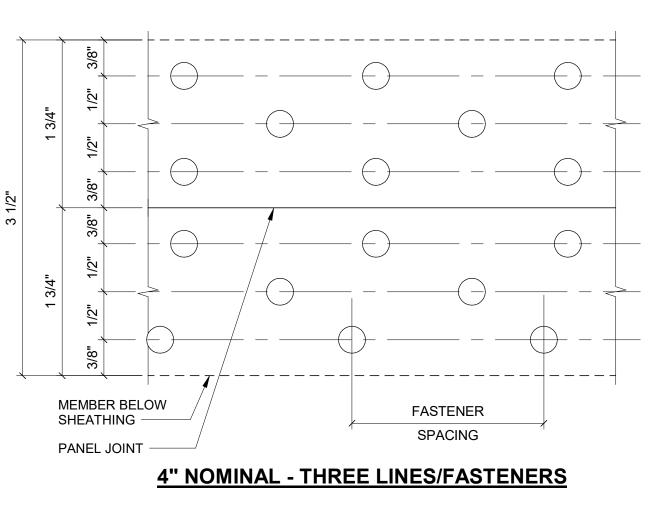






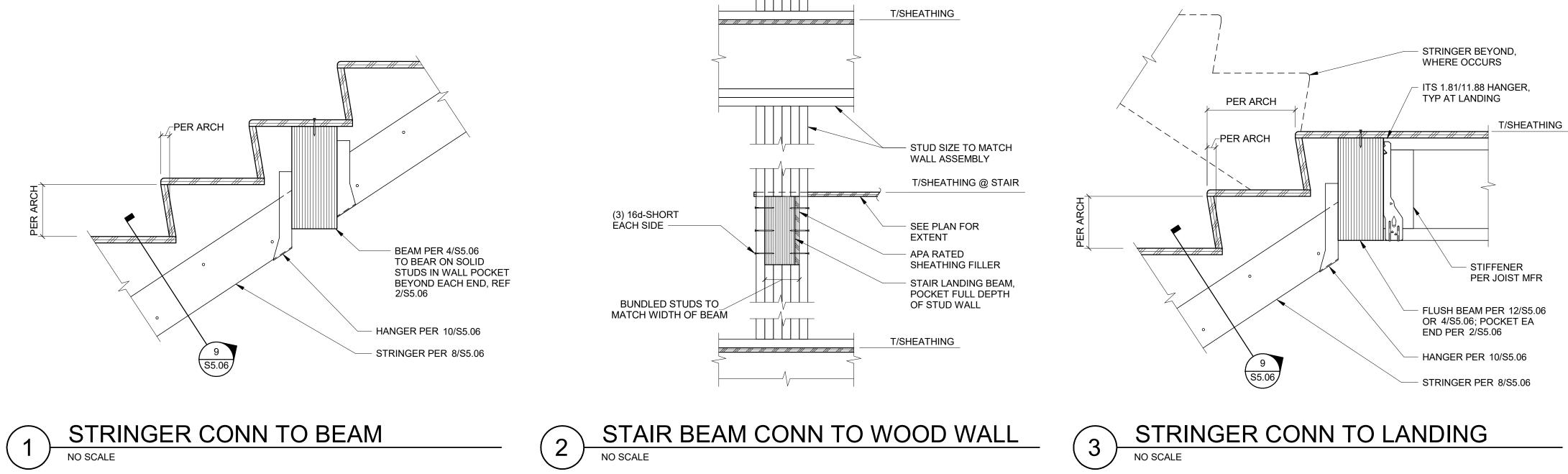


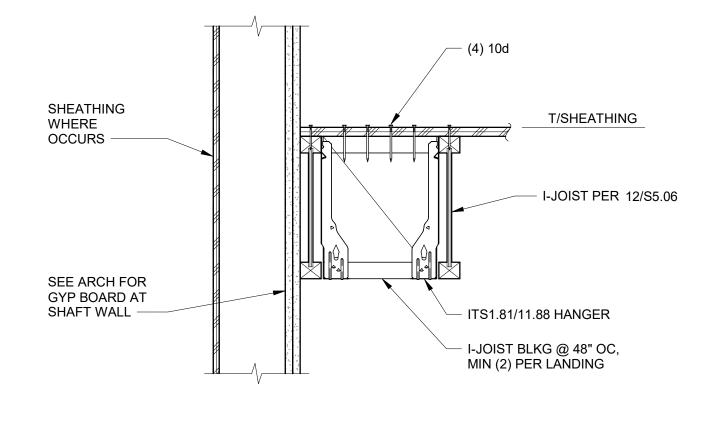




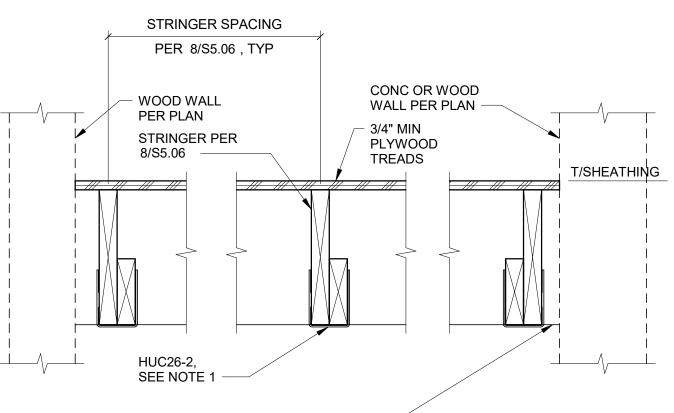


TYPICAL WOOD FRAMING DETAILS S5.05



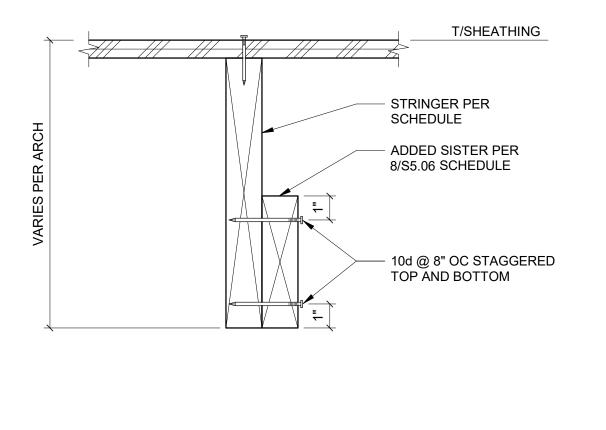






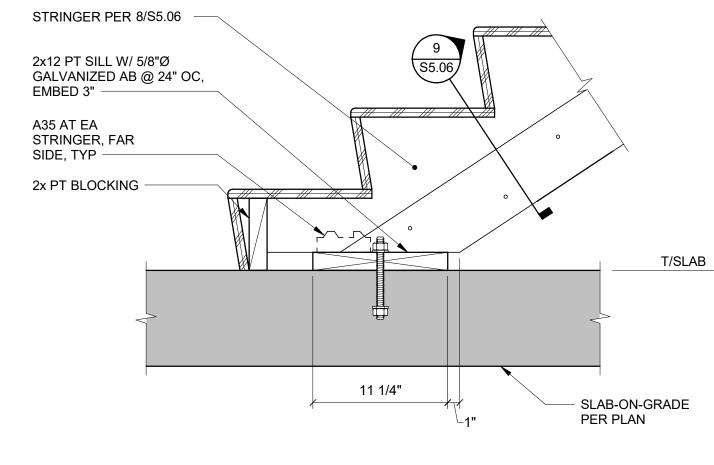
BEAM BEYOND, SEE NOTE 2

NOTES: 1. PROVIDE HHUSC48 AT (2) 1-3/4" LSL STRINGERS. 2. AT WOOD WALL, POCKET INTO WALL EACH END PER 2/S5.06. AT CONCRETE WALL, ATTACH PER









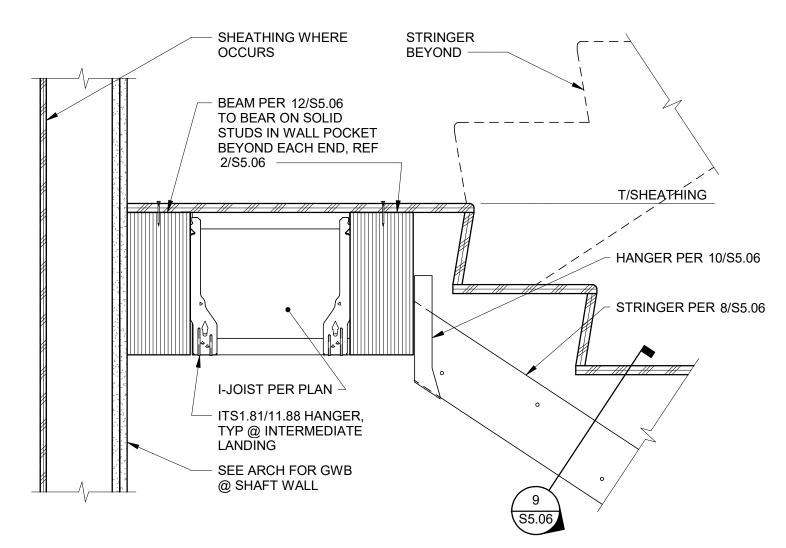
TYP BOTTOM OF STRINGER CONN

TO CONCRETE SLAB

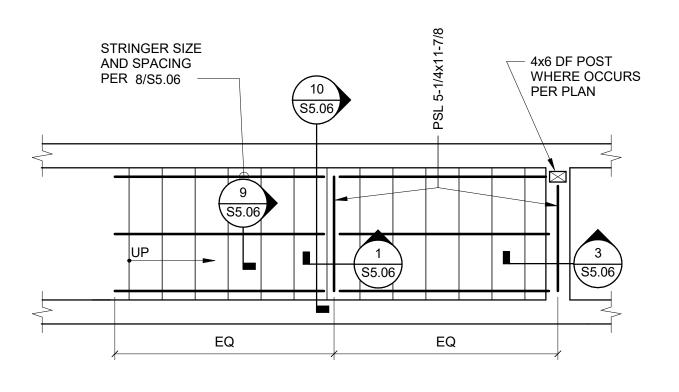
11

NO SCALE

INTERMEDIATE STAIR LANDING 7 NO SCALE

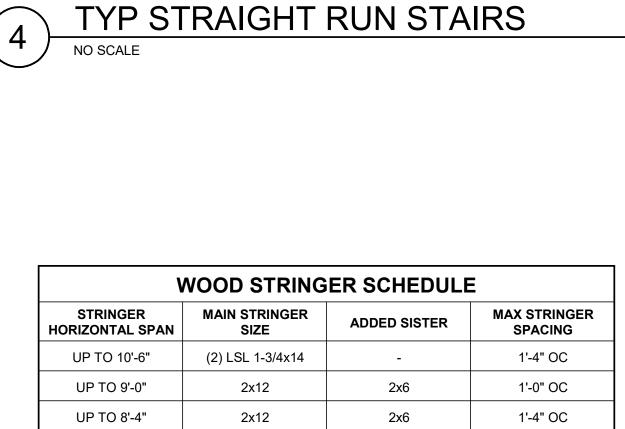


〔12〕



NOTES: 1. PARTIAL PLAN INTENDED TO SHOW FRAMING RELATIONSHIPS AND

TYPICAL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL STAIR CIRCULATION, DIRECTION, AND LANDING ELEVATIONS.



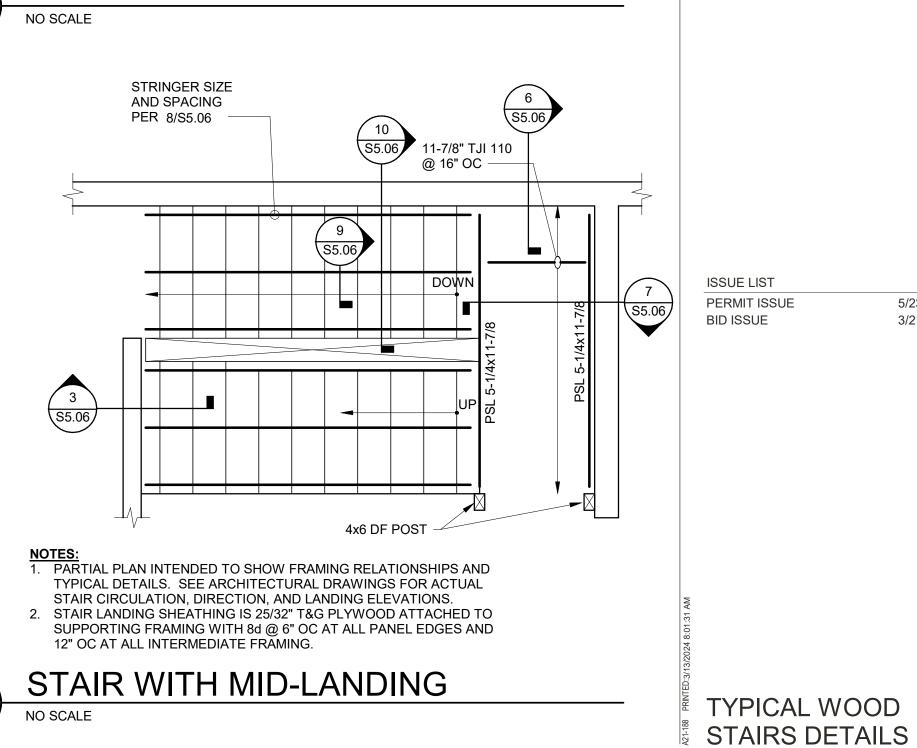
8

NOTES: 1. SEE ARCHITECTURAL DRAWINGS FOR STAIR LAYOUT.

REFERENCE 9/S5.06 FOR TYPICAL STRINGER SECTION. 3. PROVIDE PRESSURE-TREATED STRINGER WHERE IN CONTACT

WITH CONCRETE.

WOOD STRINGER SCHEDULE



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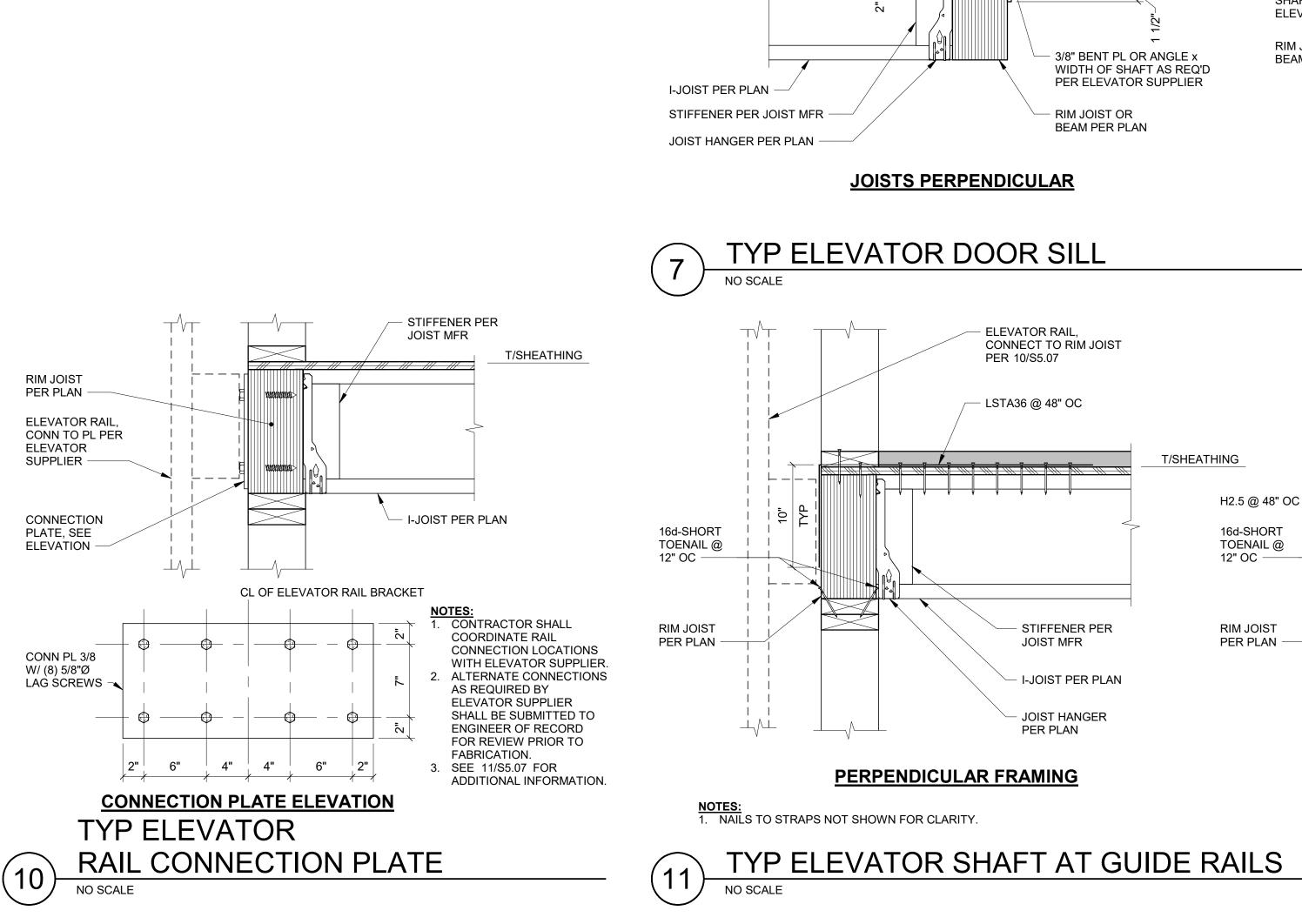
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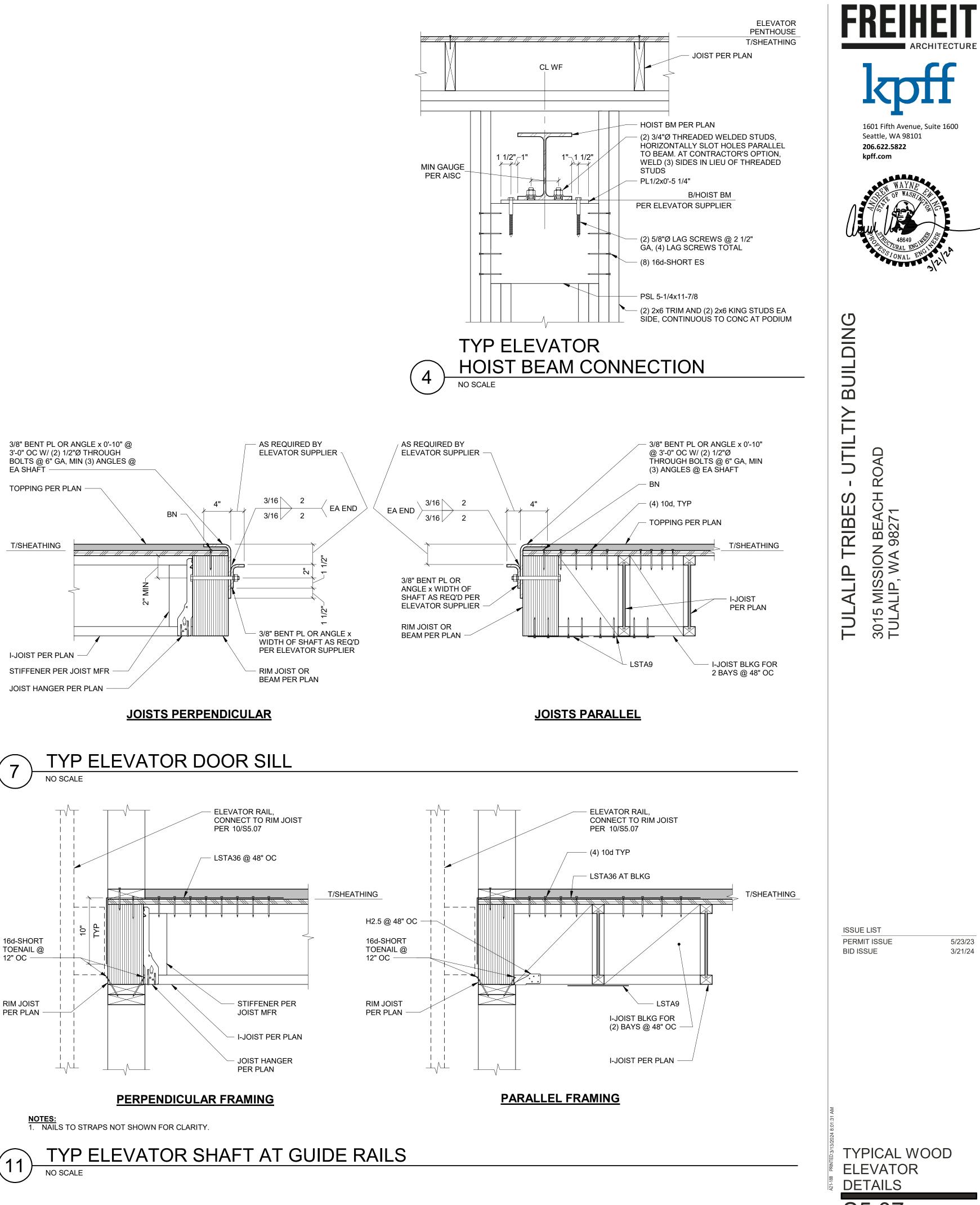
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3015 TUL

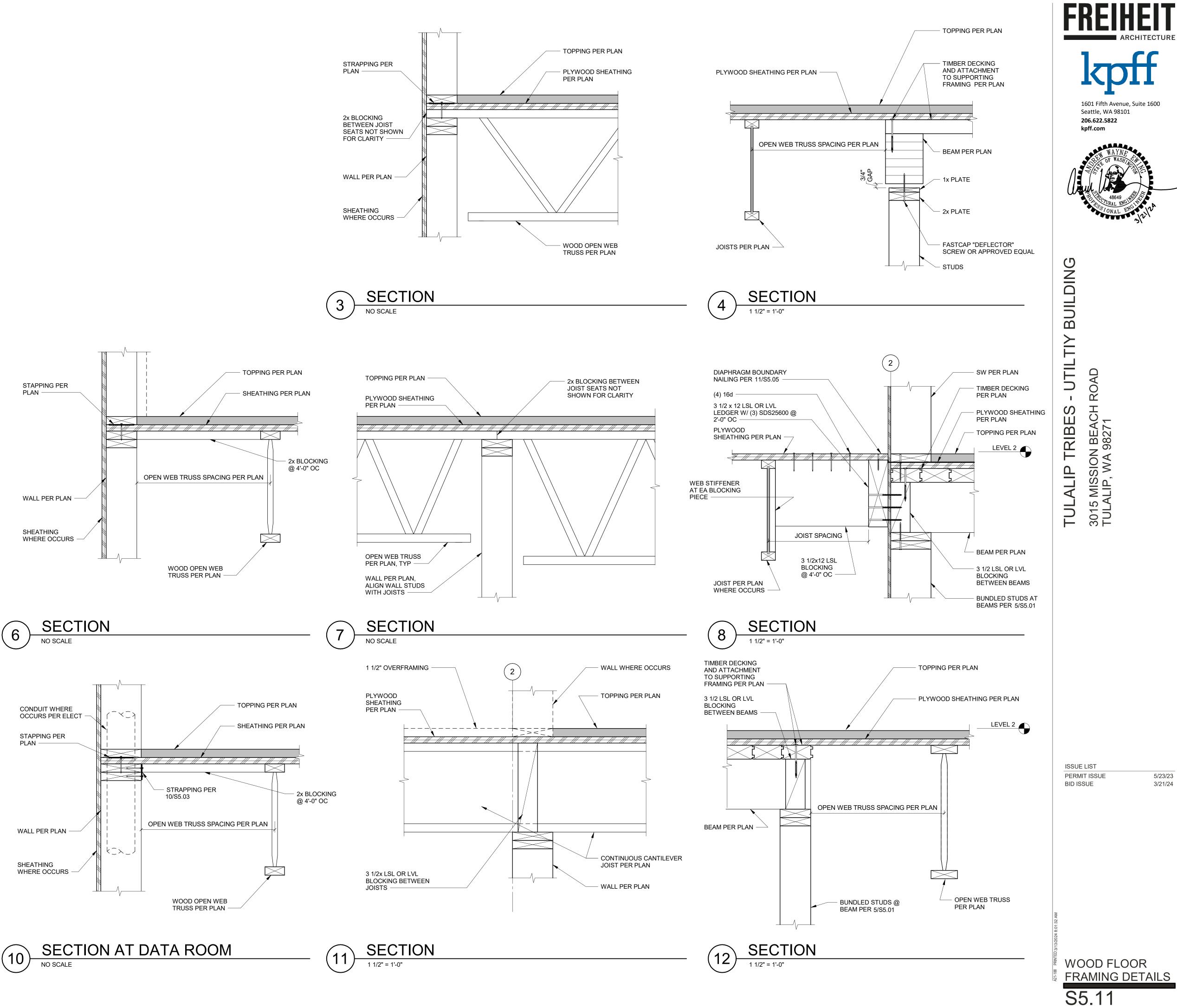
ALIP

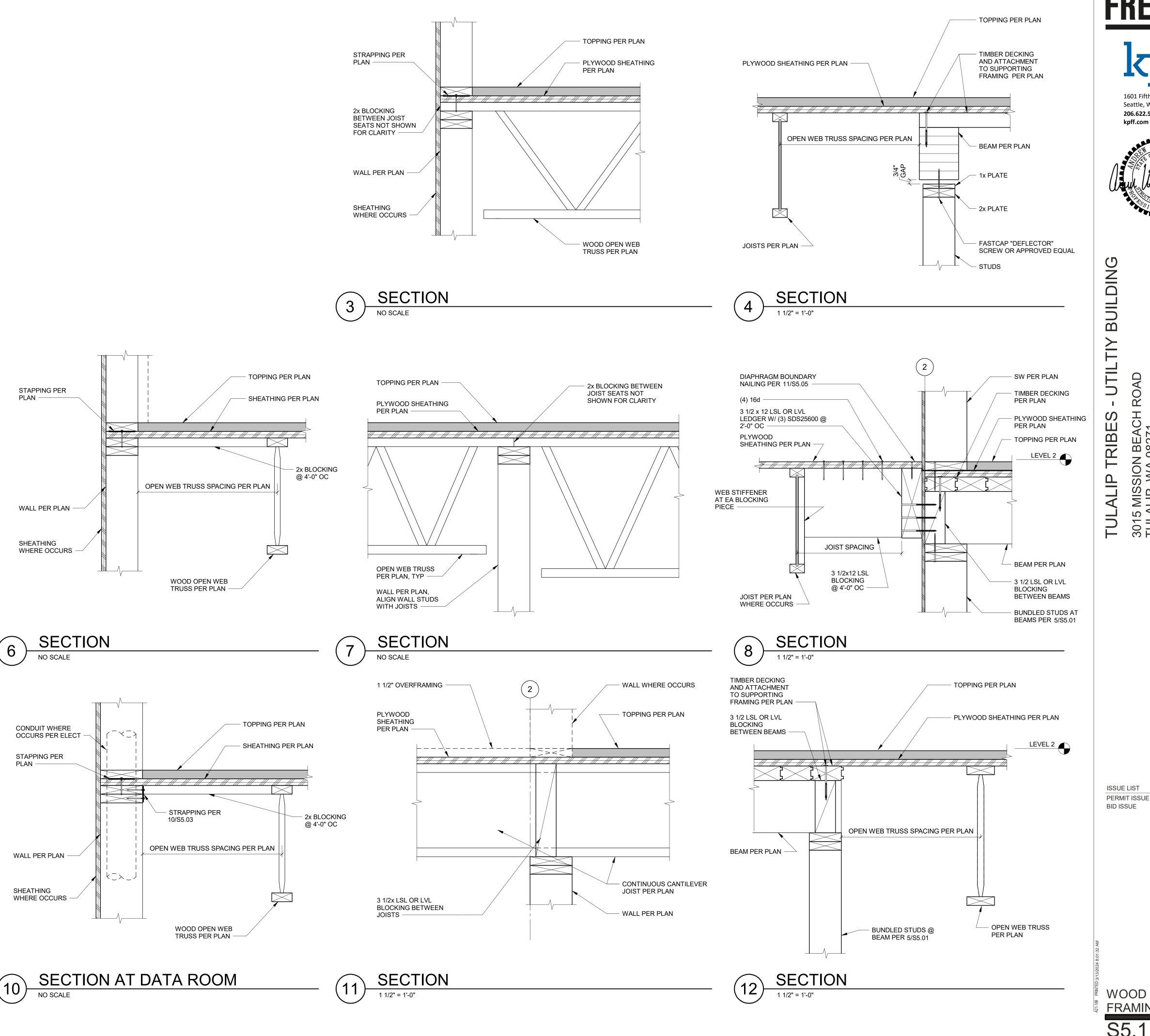
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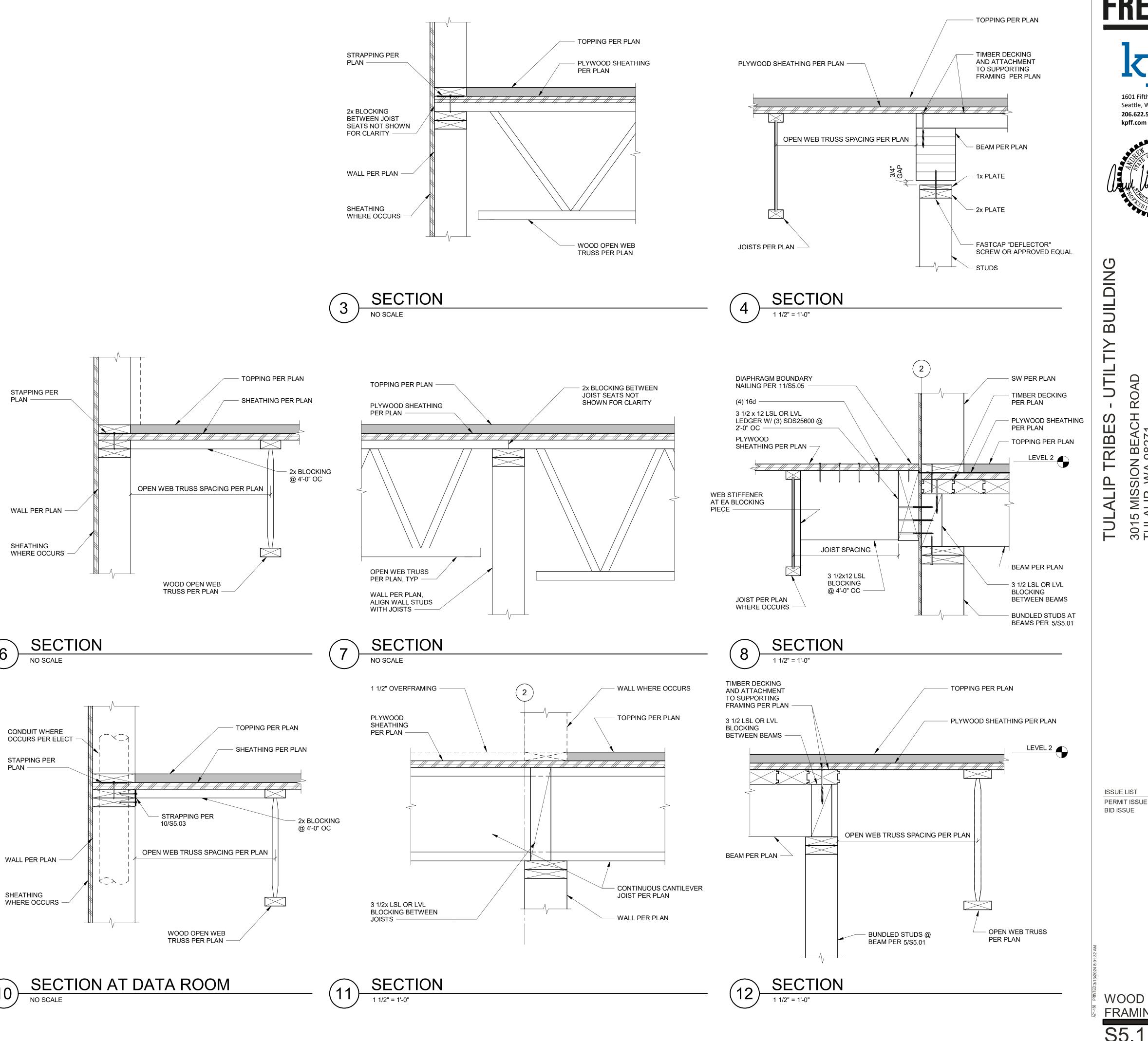




S5.07





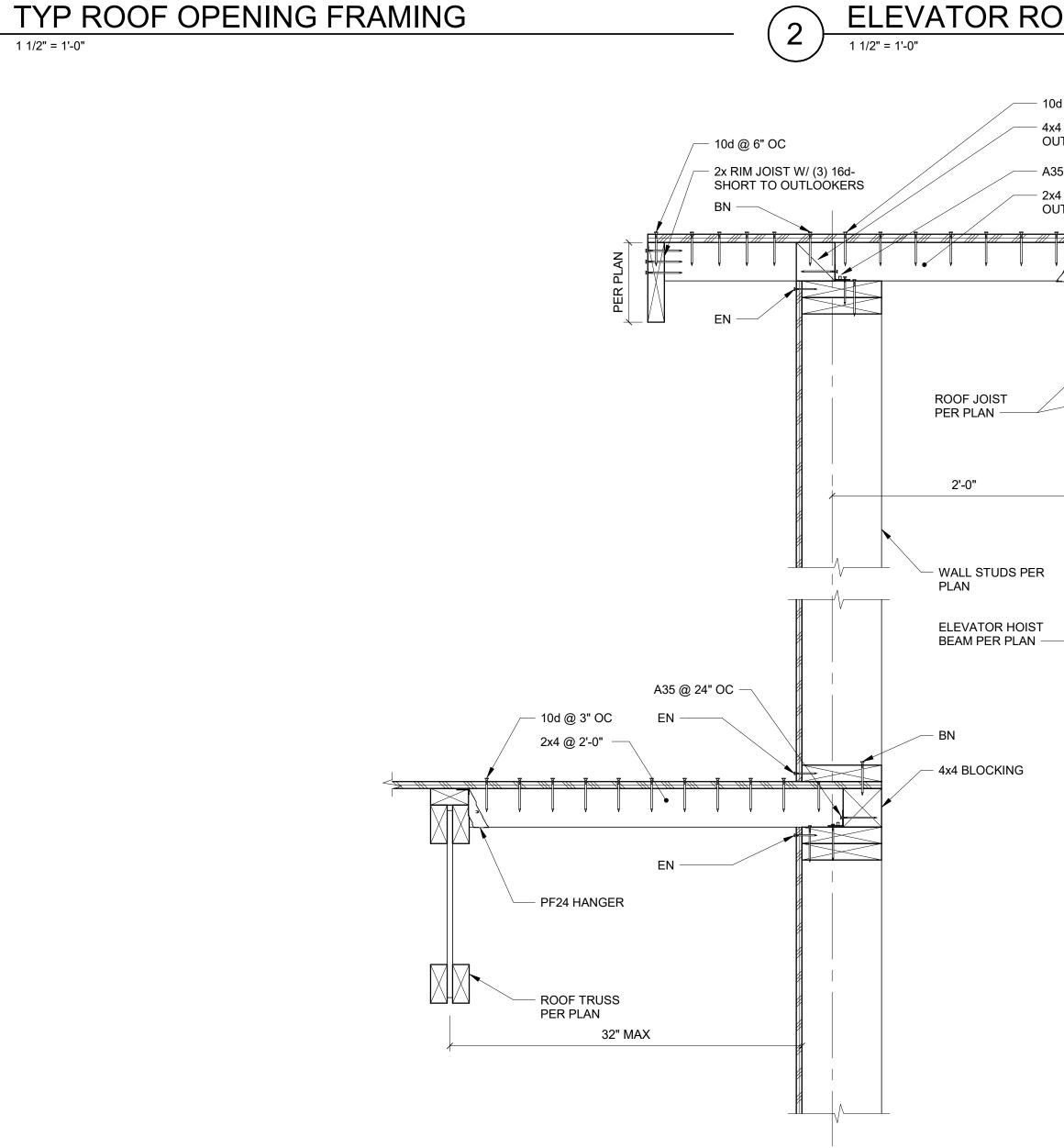


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WOOD FLOOR FRAMING DETAILS

5/23/23 3/21/24

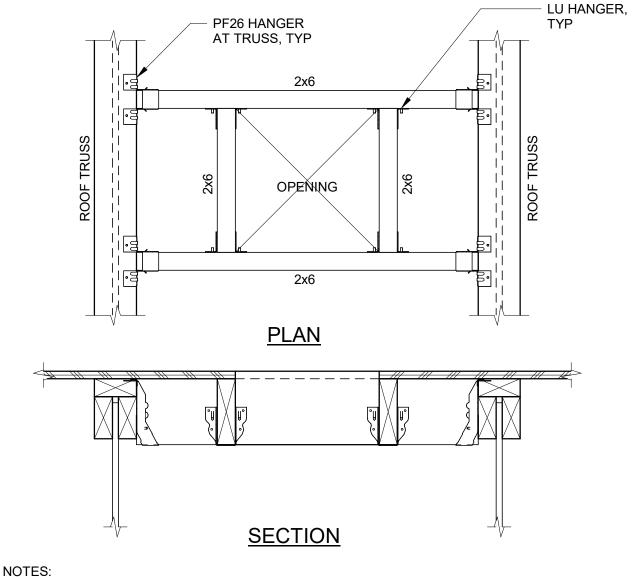


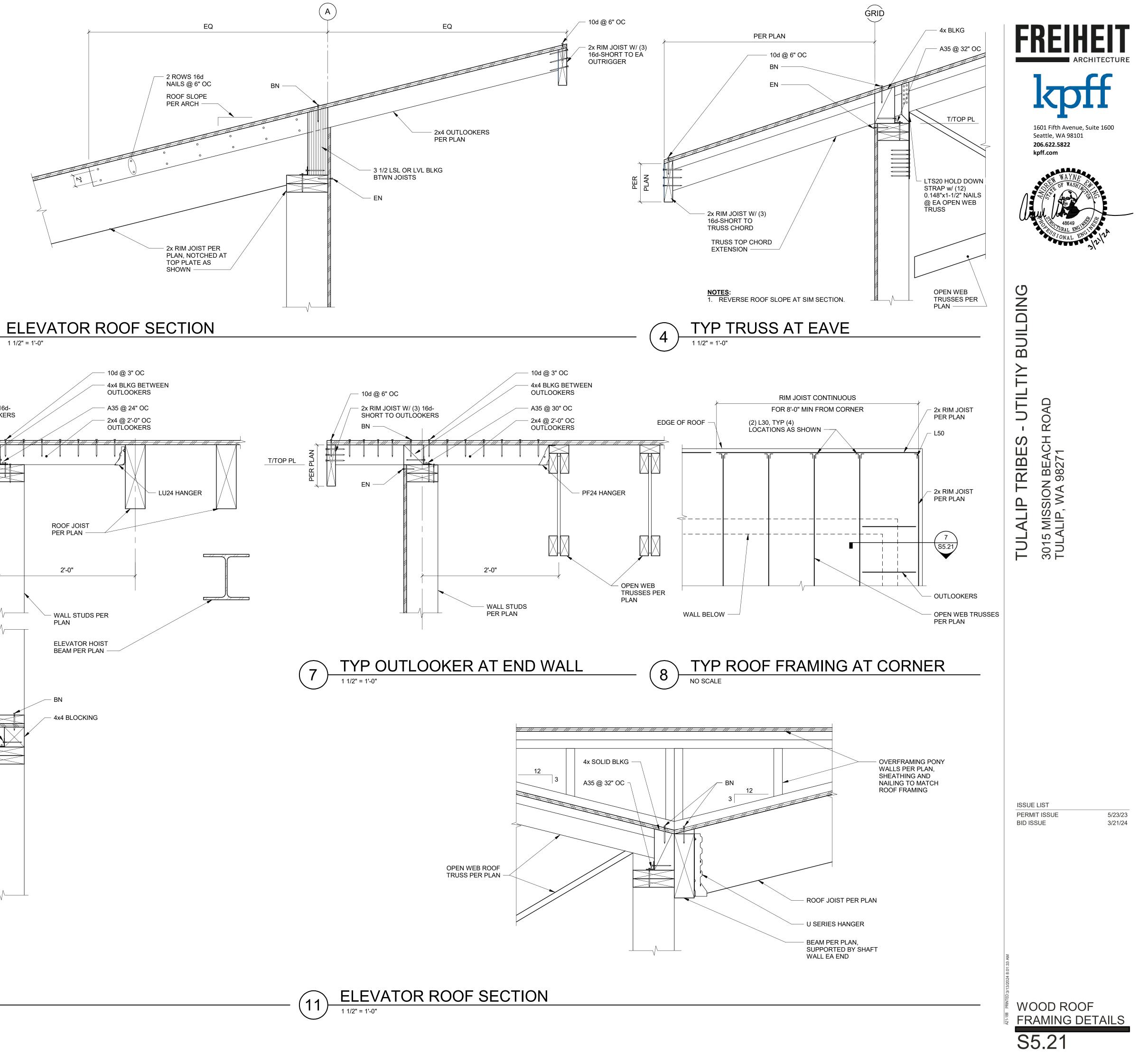


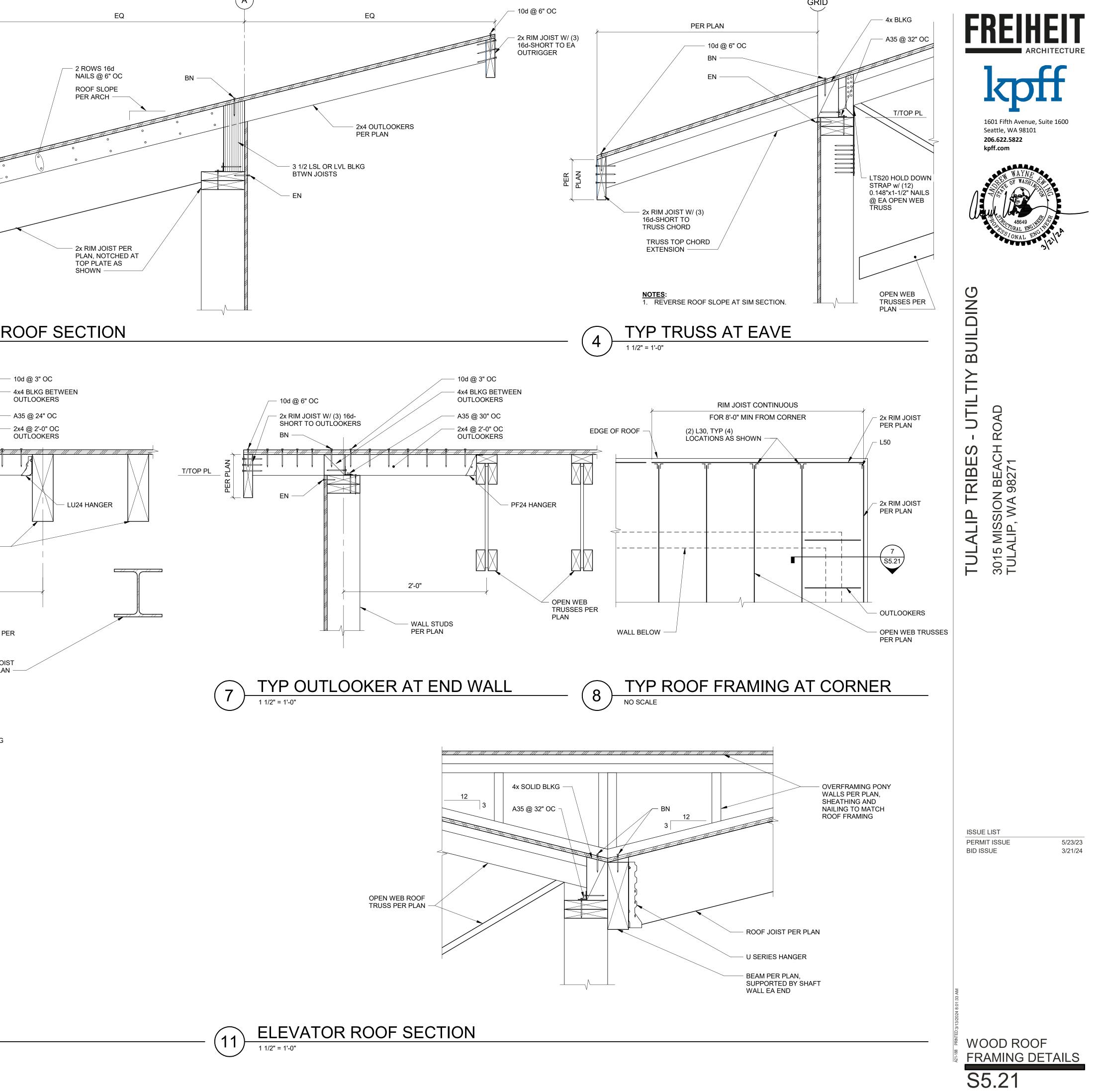
NOTES: 1. MAXIMUM OPEING SIZE TO BE 2'-0" SQUARE.

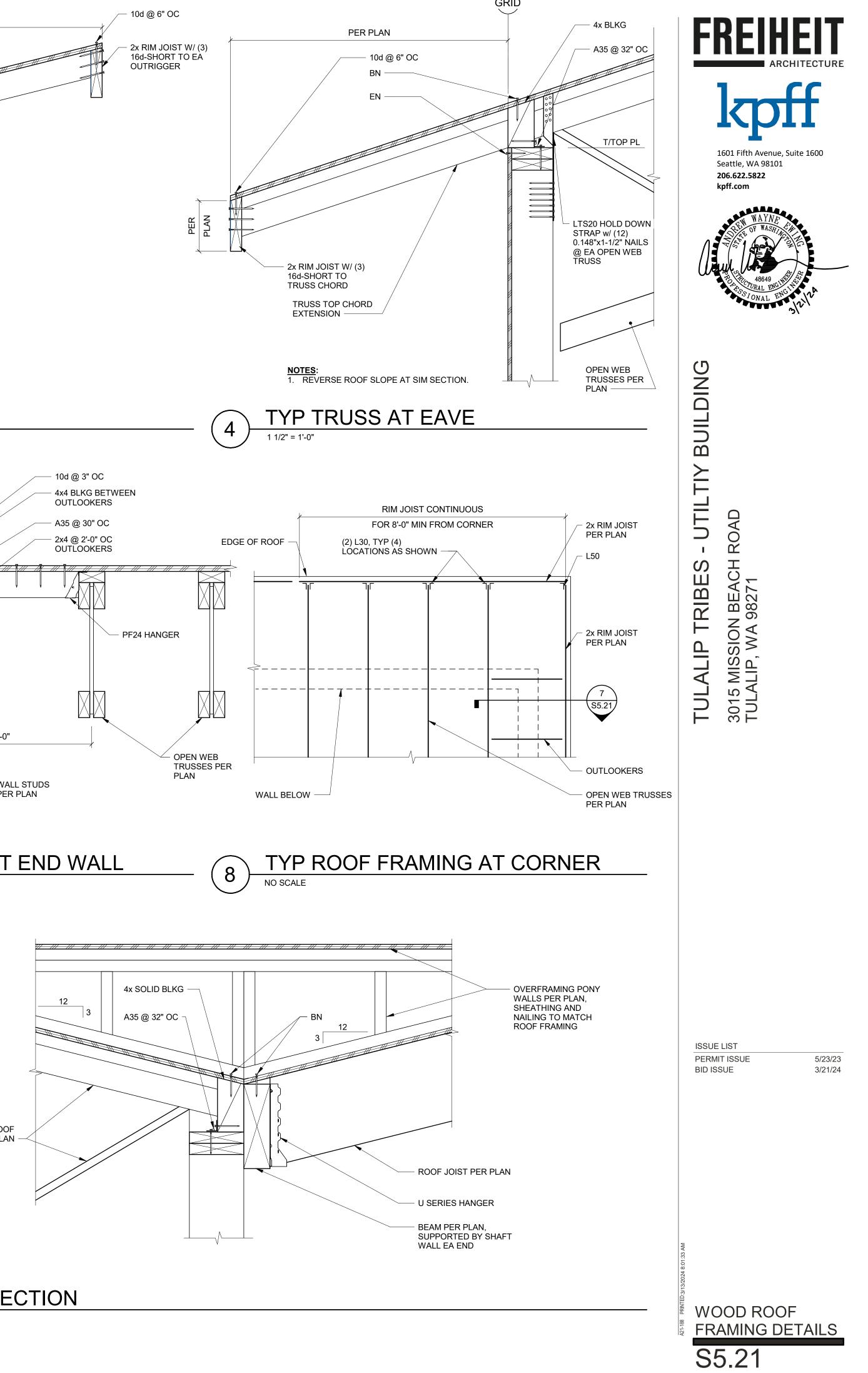
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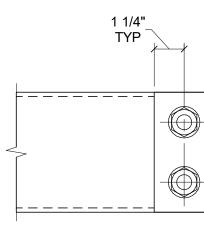
1 1/2" = 1'-0"



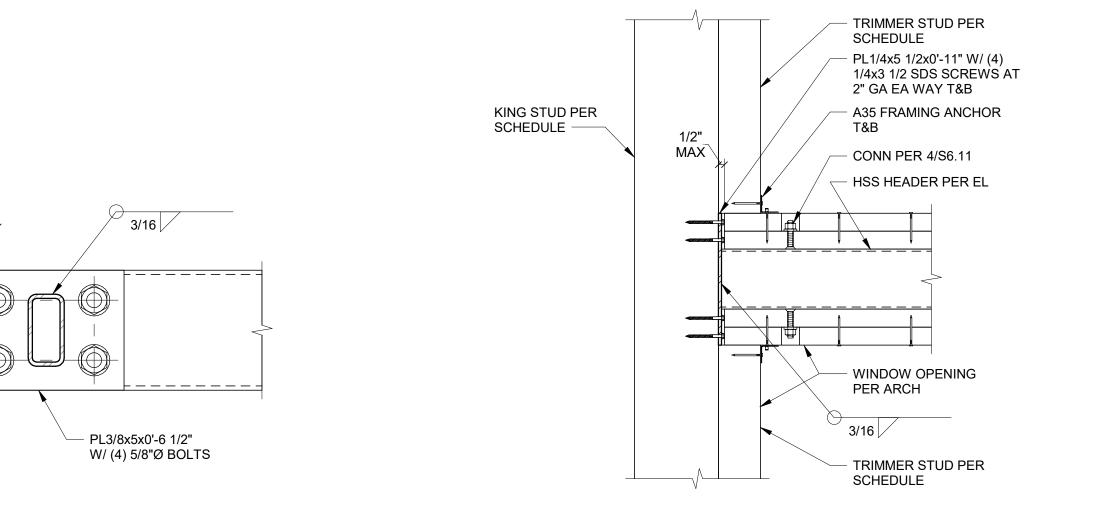




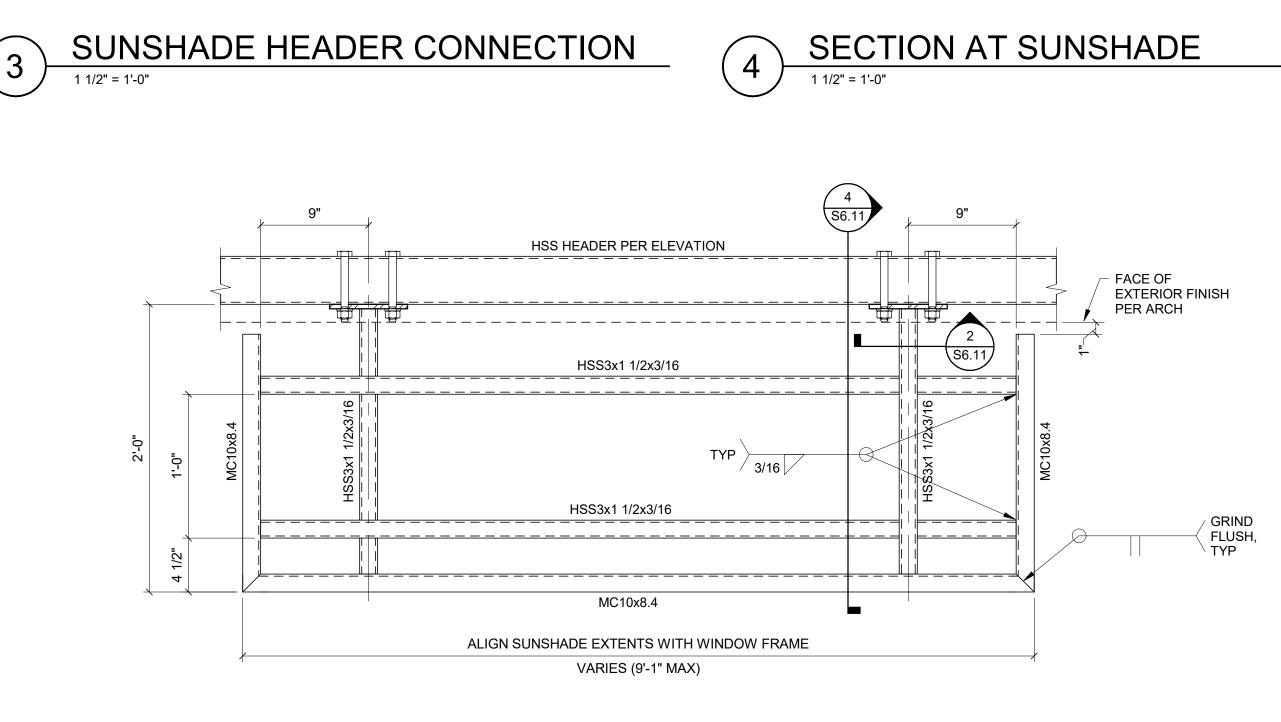




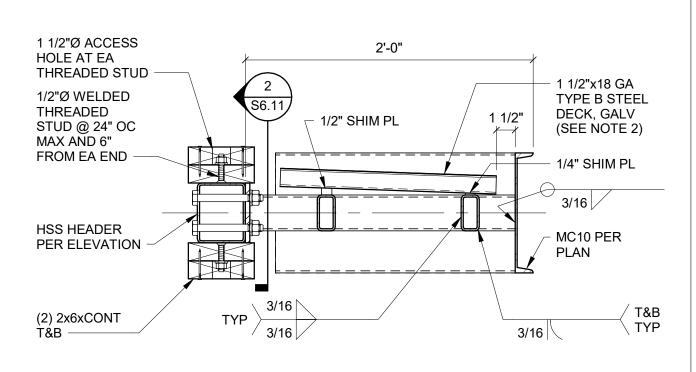




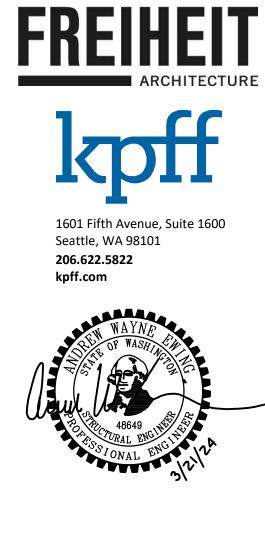








NOTES: 1. ATTACH SHIM PLATES TO SUPPORTING FRAMING WITH 3/16" FILLET WELDS 2-12" OC EACH SIDE. 2. ATTACH STEEL DECK TO SHIMS WITH #12-14x3/4" TEKS SCREWS @ 12" OC.



BUILDING ΟΤΙΓΤΙΥ ROAD . TRIBES 3015 MISSION BEACH TULALIP, WA 98271 TULALIP

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STEEL DETAILS

S6.11

5/23/23 3/21/24

TULALIP UTILITY BUILDING

		SYMBC	DL LIST			GENERAL NOTES	
SYMBOL	ABBV.	DESCRIPTION	SYMBOL	ABBV.	DESCRIPTION	INSTALL SEISMIC BRACING FOR ALL DUCTWORK, EQUIPMENT AND PIPING PER I.B.C. REQUIREMENTS. PROVIDE ENGINEERED AND STAMPED DESIGN DRAWINGS	PROVID
ф		BALL VALVE	THP-1	T'STAT	THERMOSTAT	IF REQUIRED BY IBC. CONTRACTOR TO CONTACT OR HIRE A STRUCTURAL ENGINEER TO DETERMINE BUILDING AND SYSTEM IMPORTANCE FACTORS.	VALVES CALCUL
		GATE VALVE		AFF	ABOVE FINISHED FLOOR	UTILIZE ISAT OR OTHER SEISMIC BRACING COMPANY. INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.	
		CHECK VALVE		ARCH.	ARCHITECT/ARCHITECTURAL	MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. AND DO NOT	SPRINK CANOP
		GLOBE VALVE		BFF	BELOW FINISHED FLOOR	NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.	PROVID FREEZII
		GAS COCK		CDS	CEILING DIFFUSER-SURFACE MOUNTED	COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.	FREEZI
		SOLENOID / MODULATING VALVE		CDL	CEILING DIFFUSER-LAY IN	THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING	
		THREE-WAY VALVE		CGS	CEILING GRILLE-SURFACE MOUNTED	WORK IN ORDER TO OBSERVE EXISTING CONDITIONS. VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES	. [
↓ ⁴ ⁶		RELIEF VALVE		CGL	CEILING GRILLE-LAY IN	AND BUILDING STRUCTURE.	
K		BALANCING VALVE		СОР	COEFFICIENT OF PERFORMANCE	LOCATE ALL PLUMBING FIXTURES PER ARCHITECTURAL DRAWINGS.	DO NOT
		FLOW CONTROL VALVE (SET FOR 1 GPM)				VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.	ROOM.
		AUTO-FLOW CONTROL VALVE		DWG	DRAWING	CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS TO COMPLETE EACH EQUIPMENT	
	PRV	PRESSURE REDUCING VALVE		E), EXIST.	EXISTING ITEMS	HOOK-UP TO THE POINT OF FINAL CONNECTION. CONNECTION BETWEEN VARIOUS PIECES OF EQUIPMENT SHALL BE MADE BY THE PLUMBING	L
		UNION		ELECT.	ELECTRICAL	CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED.	
		UNION		EC	ELECTRICAL CONTRACTOR	KITCHEN: CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS. CONNECTION BETWEEN VARIOUS	
₽ ₽		THERMOMETER		EER	ENERGY EFFICIENCY RATING	PIECES OF EQUIPMENT SHALL BE MADE BY PLUMBING CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED BY THE KITCHEN CONTRACTOR.	DO NOT
4 H		PRESSURE GAUGE		EFF	EFFICIENCY/EFFICIENT	MECHANICAL CONTRACTOR SHALL INSTALL ALL FITTINGS, VALVES AND CONTROLS FURNISHED WITH KITCHEN EQUIPMENT AS LOOSE ITEMS, AND SHALL	EQUIPM
		VIBRATION ISOLATOR		FR	FLOOR REGISTER	PROVIDE ALL INTER-CONNECTING PIPING REQUIRED TO COMPLETE EACH EQUIPMENT HOOK-UP TO THE POINT OF FINAL CONNECTION FOR WATER,	
		WATER HAMMER ARRESTOR		GC	GENERAL CONTRACTOR	WASTE, GAS AND VENT.	
		STRAINER		GPM	GALLONS PER MINUTE	WHERE DRYER VENTS EXCEED 35'-0" IN LENGTH, THE DRYER MANUFACTURER	
	RPBP	BACKFLOW PREVENTION DEVICE		HSPF	HEATING SEASONAL PERFORMANCE FACTOR	SHALL CERTIFY THAT THE EQUIPMENT WILL PERFORM SATISFACTORILY WITH DUCT LENGTHS SHOWN ON DRAWINGS.	
E		END CAP		HWR	HIGH WALL REGISTER	PROVIDE WATER HAMMER ARRESTOR ON FAST ACTION VALVES.	NOMI
1		HOSE BIBB		HWG	HIGH WALL GRILLE	ALL MECHANICAL EQUIPMENT LOCATED IN CEILING CAVITIES THAT REQUIRE ELECTRICAL CONNECTION SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN	
•	VTR	VENT THROUGH ROOF		I.E.	INVERT ELEVATION	PERMANENTLY MOUNTED ON THE ELECTRICAL ENCLOSURES THAT INDICATES:	
) Ţ, C	со	CLEANOUT		IPLV	INTEGRATED PART LOAD VALUE	"THIS EQUIPMENT MUST HAVE A MINIMUM ACCESS OF 36" (LESS THAN 460V) AND 42" (460V AND ABOVE)". NO TRADE SHALL BLOCK THIS SPACE EVEN IF SHOWN ON	
	w	WASTE		LWR	LOW WALL REGISTER	THE DRAWINGS. INSTALL SIGN PRIOR TO INSTALLATION OF EQUIPMENT.	
	V	VENT		LWG	LOW WALL GRILLE	ALL MECHANICAL EQUIPMENT THAT REQUIRES ACCESS FOR COIL PULL, FILTER CHANGE, MOTOR CHANGE, COMPRESSOR CHANGE, LUBRICATION, SHEAVE AND	
	CW	COLD WATER		MC	MECHANICAL CONTRACTOR	BELT CHANGE, FAN CHANGE OUT, ETC. SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN PERMANENTLY MOUNTED ON THE EQUIPMENT ACCESS PANELS THAT	
	HW	HOT WATER		MECH.	MECHANICAL	INDICATES "THIS EQUIPMENT MUST HAVE A MINIMUM ACCESS OF 36". NO TRADE SHALL BLOCK THIS SPACE.	
	HWC	HOT WATER RECIRCULATION			NEW	BALANCING DAMPERS SHALL BE PROVIDED ON ALL DUCTS REQUIRED TO	
	F	FIRE SPRINKLER		(N) NTS	NOT TO SCALE	BALANCE TO SPECIFIC CFM'S SHOWN ON PLANS. MAJOR APPLICABLE CODES:	2 OF
—— F ———						2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS	
C	C, COND	CONDENSATE		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	2018 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS 2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS	C404.3 THE M
	TPL	TRAP PRIMER LINE	${\color{black}}$	POC	POINT OF CONNECTION	2018 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS 2018 WASHINGTON STATE ENERGY CODE	THE TE FOLLO
		DUCT SECTION - SUPPLY		TYP.	TYPICAL		OF PIP LENGT
		DUCT SECTION - RETURN	\frown	U.O.N.	UNLESS OTHERWISE NOTED		1. F TABLE
		DUCT SECTION - EXHAUST	WC1		PLUMBING FIXTURE TAG	CROSS CONTAMINATION	2. F FIXTUF
12x8		RECTANGULAR DUCT (INSIDE DIMENSION)	$\left\langle \frac{\text{EF}}{1} \right\rangle$		EQUIPMENT TAG	CROSS CONTAMINATION CONTROL PROVIDED BY REDUCED PRESSURE	
12"ø		ROUND DUCT				PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RPBP) PER THE 2018 UPC SECTION 603.	
12x8	SL	SOUND LINED DUCT (INSIDE DIMENSION)	1		FLAG NOTE		
		FLEXIBLE DUCT			CONNECTION (NECK) SIZE		
8		SPIRAL DUCT	10"ø CDL		TYPE (CEILING DIFF. LAY-IN)		
		TURNING VANE			FLOW RATE (CUBIC FEET PER MINUTE)		
L	VD	VOLUME DAMPER	-3" (125)		FIXTURE UNITS or BTUH		FOR S
—_M	MD	MOTORIZED DAMPER			PIPE SIZE		
—o	BDD	BACKDRAFT DAMPER			DETAIL NUMBER	2018 WSEC TABLE C403.10.3 MINIMUM PIPE INSULATON THICKNESS (THICKNESS IN IN	ICHES) ^a
X		SUPPLY DIFFUSER			SHEET ON WHICH DETAIL IS DRAWN		PIPE OR T
		RETURN GRILLE	M1.0 Jar			TEMPERATURE RANGE AND USAGE (°F) Conductivity Btu · in./(h · ft2 · °F) b Mean Rating Temperature, °F 1 TO	1-1/2" TC
		EXHAUST GRILLE			SECTION INDICATOR	>350 0.32 - 0.34 250 4.5 5.0	5.0
						<u>251-350</u> 0.29 - 0.32 200 3.0 4.0	4.5
			MILU C			201-250 0.27 - 0.30 150 2.5 2.5 141-200 0.25 - 0.29 125 1.5 1.5	2.5 2.0
					REVISION TAG	141-200 0.25 - 0.29 125 1.5 1.5 105-140 0.21 - 0.28 100 1.0 1.0	1.5
		•			REVISION TAG		1.5

	TABLE 313.3 HANG	ER AND SUPPORTS		
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL	
CAST-IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT ^{1,2,3,4}	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET	
COPPER & COPPER ALLOYS	SOLDERED, BRAZED, THREADED, OR MECHANICAL	1-1/2" INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET ⁵	
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET ³	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET	
PEX	COLD EXPANSION, INSERT, AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES	LINE VO CONDU

FOR SI UNIT: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM

NOTES:

1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18 INCHES (457 MM). BRACE NOT TO EXCEED 40 FOOT (12 192 MM) INTERVALS TO PREVENT HORIZONTAL MOVEMENT.

3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION. 4. HANGERS SHALL NOT BE PLACED ON THE COUPLING.

5. VERTICAL WATER LINES SHALL BE PERMITTED TO B SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO

EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.

A. FOR PIPING SMALLER THAN 1-1/2 INCH (38 MM) AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH (25 MM). B. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS: T = R{(1 + T/R)K/K - 1} WHERE: T = MINIMUM INSULATION THICKNESS, R = ACTUAL OUTSIDE RADIUS OF PIPE, T = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE, K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU x IN/H x FT2 x °F) AND K = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE. C. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2" INCHES SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B BUT NOT TO THICKNESSES LESS THAN 1 INCH.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. PC TO COORDINATE WITH MECHANICAL CONTRACTOR TO LOCATE ALL SOURCES OF CONDENSATE. PIPING SHALL BE ROUTED TO NEAREST ACCEPTABLE TAILPIECE, MOP SINK, HUB DRAIN, ETC. MC TO PROVIDE ANY CONDENSATE PUMP NECESSARY TO FACILITATE CONDENSATE REMOVAL.

ROOM.

ELECTRICAL.

2018 WSEC TABLE C404.3.1 PIPING VOLUME AND MAXIMUM PIPING LENGTHS											
NOMINAL PIPE SIZE	VOLUME (LIQUID	MAXIMUM PIPING I	LENGTH (FEET)								
	OUNCES PER FOOT LENGTH)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES								
1/4	0.33	6	50								
5/16	0.5	4	50								
3/8	0.75	3	50								
1/2	1.5	2	43								
5/8	2	1	32								
3/4	3	0.5	21								
7/8	4	0.5	16								
1	5	0.5	13								
1-1/4	8	0.5	8								
1-1/2	11	0.5	6								
2 OR LARGER	18	0.5	4								

THE MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HEATER WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE IN ACCORDANCE WITH THE FOLLOWING. WHERE THE PIPING CONTAINS MORE THAN ONE SIZE OF PIPE, THE LARGEST SIZE OF PIPE WITHIN THE PIPING SHALL BE USED FOR DETERMINING THE MAXIMUM ALLOWABLE LENGTH OF THE PIPING IN TABLE C404.3.1. 1. FOR A PUBLIC LAVATORY FAUCET, USE THE "PUBLIC LAVATORY FAUCETS" COLUMN IN TABLE C404.3.1. 2. FOR ALL OTHER PLUMBING FIXTURES AND PLUMBING APPLIANCES, USE THE "OTHER FIXTURES AND APPLIANCES" COLUMN IN TABLE C404.3.1.

TABLE 313.6 HANGER ROD SIZES									
PIPE AND TUBE SIZE	ROD SIZE								
(INCHES)	(INCHES)								
1/2 - 4	3/8								
5 - 8	1/2								
10 - 23	5/8								
FOR SI UNITS: 1 INCH = 25.4 MM									

VOLTAGE - HVAC CONTROLS AND INTERLOCKS: UIT, CONDUCTORS AND CONNECTIONS BY ELECTRICAL CONTRACTOR.

LOW VOLTAGE HVAC CONTROLS AND INTERLOCKS: LOW VOLTAGE CONDUIT SHALL BE BIDDER DESIGNED THAT IS INCLUDED IN THE MECHANICAL CONTRACTOR'S SCOPE

FIRE SPRINKLER NOTES

PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL AUTOMATIC FIRE SPRINKLER SYSTEM PER N.F.P.A. 13. PROVIDE ALL REQUIRED PIPING, HEADS, VALVES, CONTROLS AND ACCESSORIES. PROVIDE ALL REQUIRED CALCULATIONS. OBTAIN ANY REQUIRED PERMITS, AND PAY ALL REQUIRED FEES IN ORDER TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.

SPRINKLERS SHALL BE INSTALLED IN ALL ROOMS, ALL BLIND SPACES, ALL CANOPIES, OVER-HANGS AND COVERED WALKWAYS. PROVIDE DRY SYSTEM AS REQUIRED TO PROVIDE COVERAGE IN POTENTIAL

FREEZING LOCATIONS.

ELEVATOR EQUIPMENT ROOM

DO NOT RUN ANY DUCTWORK OR PIPING THROUGH AN ELEVATOR EQUIPMENT

ELECTRICAL ROOMS

DO NOT RUN ANY DUCTWORK OR PIPING OVER ELECTRICAL PANELS OR EQUIPMENT. COORDINATE ANY DUCTWORK OR PIPING IN ROOM WITH

C404.3.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD.

(1	NESS IN INC	HES) ^a		
	NOMINAL P	IPE OR TUBE	E SIZE (inche	s)
	1 TO < 1-1/2	1-1/2" TO <4	4 TO <8	<u>></u> 8
	5.0	5.0	5.0	5.0
	4.0	4.5	4.5	4.5
	2.5	2.5	3.0	3.0
	1.5	2.0	2.0	2.0
	1.0	1.5	1.5	1.5
	0.5	1.0	1.0	1.0
	1.0	1.0	1.0	1.5

LAVATORY MIXING VALVE

HOT WATER DELIVERED FROM PUBLIC-USE LAVATORIES SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120°F BY A DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3 THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION.

A LAVATORY SHALL BE DEFINED AS A SINK USED PRIMARILY FOR HAND WASHING THAT IS ADJACENT TO WATER CLOSET(S)/URINAL(S).

ALL LAVATORIES SHALL BE CONSIDERED PUBLIC USE EXCEPT FOR THE FOLLOWING:

 LAVATORIES IN RESIDENCES AND APARTMENTS LAVATORIES IN HOTEL ROOMS

LAVATORIES IN PRIVATE HOSPITAL ROOMS

DRAWING INDEX

SHEET	DESCRIPTION
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M3.1	SECOND FLOOR PLAN - HVAC
M3.2	ROOF PLAN - HVAC
M4.0	DETAILS
M4.1	DETAILS

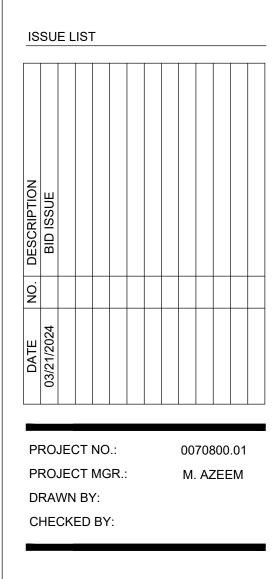
BID ISSUE

HARRIS GROUP Big Capabilities 🔸 Dedicated People

PROJECT NO: 0070800.0







COVER SHEET M1.0

2018 WASHINGTON STATE ENERGY CODE NOTES

NOTE: ITEMS IN (PARENTHESIS) REFERENCE CODE SECTIONS FROM THE 2018 WASHINGTON STATE ENERGY CODE.

(C403.2 PROVISIONS APPLICABLE TO ALL MECHANICAL SYSTEMS) CONTRACTOR SHALL PROVIDE ALL MECHANICAL SYSTEMS AND EQUIPMENT, SERVING THE BUILDING HEATING, COOLING OR VENTILATING NEEDS, WHICH COMPLY WITH SECTIONS C403.2.1 AND C403.2.2. WHERE A BUILDING'S MECHANICAL SYSTEM IS ADDRESSED IN SECTIONS C403.3 THROUGH C403.13, SUCH ELEMENTS SHALL COMPLY WITH THOSE SECTIONS.

(C403.2.1 ZONE ISOLATION REQUIRED) HVAC SYSTEMS SERVING ZONES THAT ARE INTENDED TO OPERATE OR BE OCCUPIED NONSIMULTANEOUSLY SHALL BE DIVIDED INTO ISOLATION AREAS. ZONES MAY BE GROUPED INTO A SINGLE ISOLATION AREA PROVIDED IT DOES NOT EXCEED 25,000 SQUARE FEET OF CONDITIONED FLOOR AREA NOR INCLUDE MORE THAN ONE FLOOR. EACH ISOLATION AREA SHALL BE EQUIPPED WITH ISOLATION DEVICES AND CONTROLS CONFIGURED TO AUTOMATICALLY SHUT OFF THE SUPPLY OF CONDITIONED AIR AND OUTDOOR AIR TO AND EXHAUST AIR FROM THE ISOLATION AREA. EACH ISOLATION AREA SHALL BE CONTROLLED INDEPENDENTLY BY A DEVICE MEETING THE REQUIREMENTS OF SECTION C403.4.2.2. CENTRAL SYSTEMS AND PLANTS SHALL BE PROVIDED WITH CONTROLS AND DEVICES THAT WILL ALLOW SYSTEM AND EQUIPMENT OPERATION FOR ANY LENGTH OF TIME WHILE SERVING ONLY THE SMALLEST ISOLATION AREA SERVED BY THE SYSTEM OR PLANT

(C403.3.2 HVAC EQUIPMENT PERFORMANCE REQUIREMENTS) CONTRACTOR SHALL PROVIDE EQUIPMENT WHICH MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C403.2.3(1) THROUGH C403.2.3(12) WHEN TESTED AND RATED IN ACCORDANCE WITH THE APPLICABLE TEST PROCEDURE. PLATE-TYPE LIQUID-TO-LIQUID HEAT EXCHANGERS SHALL MEET THE MINIMUM REQUIREMENTS OF TABLE C403.3.2(10).

GAS-FIRED AND OIL-FIRED FORCED AIR FURNACES WITH 225,000 BTU/H OR GREATER SHALL HAVE AN INTERMITTENT IGNITION OR INTERRUPTED DEVICE (IID), AND HAVE EITHER MECHANICAL DRAFT (INCLUDING POWER VENTING) OR A FLUE DAMPER. A VENT DAMPER IS AN ACCEPTABLE ALTERNATIVE TO A FLUE DAMPER FOR FURNACES WHERE COMBUSTION AIR IS DRAWN FROM THE CONDITIONED SPACE. ALL FURNACES 225,000 BTU/H (65 KW), INCLUDING ELECTRIC FURNACES, THAT ARE NOT LOCATED WITHIN THE CONDITIONED SPACE SHALL HAVE JACKET LOSSES NOT EXCEEDING 0.75 PERCENT OF THE INPUT RATING. CHILLED WATER PLANTS AND BUILDINGS WITH MORE THAN 500 TONS TOTAL CAPACITY SHALL NOT HAVE MORE THAN 100 TONS PROVIDED BY AIR-COOLED CHILLERS.

(C403.3.3.5 DEDICATED OUTDOOR AIR SYSTEMS (DOAS) CONTRACTOR SHALL PROVIDE A DEDICATED OUTDOOR AIR SYSTEM (DOAS) WHICH DELIVERS 100 PERCENT OUTDOOR AIR WITHOUT REQUIRING OPERATION OF THE HEATING AND COOLING SYSTEM FANS FOR VENTILATION AIR DELIVERY FOR OCCUPANCIES AS SHOWN IN TABLE C403.3.5.

(C403.4 HVAC SYSTEM CONTROLS) CONTRACTOR SHALL PROVIDE EACH HEATING AND COOLING SYSTEM WITH THERMOSTATIC CONTROLS AS SPECIFIED IN SECTIONS C403.4.1 THROUGH C403.4.11 AND SHALL BE CAPABLE OF AND CONFIGURED TO IMPLEMENT ALL REQUIRED CONTROL FUNCTIONS IN THIS CODE.

(C403.4.1 THERMOSTATIC CONTROLS) CONTRACTOR SHALL PROVIDE INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN EACH ZONE. CONTROLS IN THE SAME ZONE OR IN NEIGHBORING ZONES CONNECTED BY OPENINGS LARGER THAN 10% OF THE FLOOR AREA OF EITHER ZONE SHALL NOT ALLOW FOR SIMULTANEOUS HEATING AND COOLING. AT A MINIMUM, EACH FLOOR OF A BUILDING SHALL BE CONSIDERED AS A SEPARATE ZONE. CONTROLS ON SYSTEMS REQUIRED TO HAVE ECONOMIZERS AND SERVING SINGLE ZONES SHALL HAVE MULTIPLE COOLING STAGE CAPABILITY AND ACTIVATE THE ECONOMIZER WHEN APPROPRIATE AS THE FIRST STAGE OF COOLING. SEE SECTION C403.5 FOR FURTHER ECONOMIZER REQUIREMENTS. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

(C403.4.1.2 DEADBAND) CONTRACTOR SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F (2.8°C), WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM, WHERE ZONE THERMOSTATIC CONTROLS ARE USED TO CONTROL BOTH HEATING AND COOLING.

(C403.4.2 OFF-HOUR CONTROLS) CONTRACTOR SHALL PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM FOR ALL OCCUPANCIES OTHER THAN GROUP R.

(C403.4.2.1 THERMOSTATIC SETBACK CAPABILITIES) THERMOSTATIC SETBACK CONTROLS SHALL IAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).

(C403.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES) AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY. THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.

(C403.4.2.3 AUTOMATIC START CAPABILITIES) AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

(C403.2.2 VENTILATION AND EXHAUST) CONTRACTOR SHALL PROVIDE VENTILATION, EITHER NATURAL OR MECHANICAL, IN ACCORDANCE WITH CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE. WHERE MECHANICAL VENTILATION IS PROVIDED, THE SYSTEM SHALL BE CONFIGURED TO PROVIDE NO GREATER THAN 150 PERCENT OF THE MINIMUM OUTDOOR AIR REQUIRED BY CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE OR OTHER APPLICABLE CODE OR STANDARD, WHICHEVER IS GREATER.

(C403.7.8.1 SHUTOFF DAMPERS FOR BUILDING ISOLATION) OUTDOOR AIR SUPPLY, EXHAUST OPENINGS AND RELIEF OUTLETS AND STAIRWAY AND ELEVATOR HOISTWAY SHAFT VENTS SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS. SEE SECTIONS C403.10.1 AND C403.10.2 FOR DUCTWORK INSULATION REQUIREMENTS UPSTREAM AND DOWNSTREAM OF THE SHUTOFF DAMPER.

EXCEPTIONS:

1.1 RELIEF DAMPERS SERVING SYSTEMS LESS THAN 5,000 CFM TOTAL SUPPLY SHALL BE PERMITTED IN BUILDINGS 3 STORIES OR LESS

1.2 GRAVITY (NONMOTORIZED) DAMPERS WHERE THE DESIGN OUTDOOR INTAKE OR EXHAUST DOES NOT EXCEED 400 CFM.

1.3 SYSTEMS SERVING AREAS WHICH REQUIRE CONTINUOUS OPERATION FOR 24/7 OCCUPANCY SCHEDULES.

(C403.10.1.1) CONTRACTOR SHALL PROVIDE DUCTS, SHAFTS AND PLENUMS CONVEYING OUTSIDE AIR FROM THE EXTERIOR OF THE BUILDING TO THE MECHANICAL SYSTEM WHICH MEET ALL AIR LEAKAGE AND BUILDING ENVELOPE INSULATION REQUIREMENTS OF SECTION C402, PLUS BUILDING ENVELOPE VAPOR CONTROL REQUIREMENTS FROM THE INTERNATIONAL BUILDING CODE, EXTENDING CONTINUOUSLY FROM THE BUILDING EXTERIOR TO AN AUTOMATIC SHUTOFF DAMPER OR HEATING OR COOLING EQUIPMENT. FOR THE PURPOSES OF BUILDING ENVELOPE INSULATION REQUIREMENTS, DUCT SURFACES SHALL BE INSULATED WITH THE MINIMUM INSULATION VALUES IN TABLE C403.10.1.1.

C403.10.1.2 CONTRACTOR SHALL PROVIDE ALL OTHER SUPPLY AND RETURN AIR DUCTS AND PLENUMS WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY MINIMUM INSULATION VALUE AS REQUIRED FOR EXTERIOR WALLS BY SECTION C402.1.3.

SUPPLY DUCTS WHICH CONVEY SUPPLY AIR AT TEMPERATURES LESS THAN 55°F OR GREATER THAN 105°F SHALL BE INSULATED WITH A MINIMUM R-VALUE IN ACCORDANCE WITH TABLE C403.10.1.2. ALL DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED, JOINTS AND SEAMS SHALL COMPLY WITH SECTION 603.9 OF THE INTERNATIONAL MECHANICAL CODE.

(C403.10.2.1 LOW-PRESSURE DUCT SYSTEMS) CONTRACTOR SHALL PROVIDE ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES WATER GAUGE (W.G.) (500 PA) WITH SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PRESSURE CLASSIFICATIONS SPECIFIC TO THE DUCT SYSTEM SHALL BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. (C403.10.3 PIPING INSULATION) CONTRACTOR SHALL PROVIDE ALL PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM WITH THERMAL INSULATION IN ACCORDANCE WITH TABLE C403.10.3.

(C403.10.3.1 PROTECTION OF PIPING INSULATION) CONTRACTOR SHALL PROTECT ALL PIPING INSULATION EXPOSED TO WEATHER FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL, ADHESIVES TAPE SHALL NOT BE PERMITTED.

(C403.13 MECHANICAL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS) MECHANICAL SYSTEMS SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.

(C403.8.3 FAN EFFICIENCY) CONTRACTOR SHALL PROVIDE FANS WITH A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER PER AMCA 205. THE TOTAL EFFICIENCY AT DESIGN CONDITIONS SHALL BE WITHIN 15 PERCENT OF THE MAXIMUM TOTAL EFFICIENCY.

EXCEPTION: THE FOLLOWING FANS ARE NOT REQUIRED TO HAVE A FAN EFFICIENCY GRADE: 1. INDIVIDUAL FANS WITH A MOTOR NAMEPLATE HORSEPOWER OF 5 HP OR LESS THAT ARE NOT PART OF A GROUP OPERATED AS THE FUNCTIONAL EQUIVALENT OF A SINGLE FAN. 2. MULTIPLE FANS IN SERIES OR PARALLEL THAT HAVE A COMBINED MOTOR NAMEPLATE HORSEPOWER OF 5 HP OR LESS AND ARE OPERATED AS THE FUNCTIONAL EQUIVALENT OF A SINGLE FAN.

3. FANS THAT ARE PART OF EQUIPMENT COVERED UNDER SECTION C403.3.2. 4. FANS INCLUDED IN AN EQUIPMENT PACKAGE CERTIFIED BY AN APPROVED AGENCY FOR AIR OR ENERGY PERFORMANCE.

5. POWERED WALL/ROOF VENTILATORS.

6. FANS OUTSIDE THE SCOPE OF AMCA 205.

(C403.8.5.1 FAN AIRFLOW CONTROL) CONTRACTOR SHALL PROVIDE EACH COOLING SYSTEM LISTED IN TABLE C403.8.5.1 WITH CONTROL TO VARY THE INDOOR FAN AIRFLOW AS A FUNCTION OF LOAD AND ADDITIONAL REQUIREMENTS LISTED IN THIS SECTION.

(C405.8 ELECTRIC MOTOR EFFICIENCY) ALL ELECTRIC MOTORS, FRACTIONAL OR OTHERWISE. SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4) WHEN TESTED AND RATED IN ACCORDANCE WITH DOE 10 CFR.

FRACTIONAL HP FAN MOTORS THAT ARE 1/12 HP OR GREATER AND LESS THAN 1 HP WHICH ARE NOT COVERED BY TABLES C405.8(3) AND C405.8(4) SHALL BE ELECTRONICALLY COMMUTATED MOTORS OR SHALL HAVE A MINIMUM MOTOR EFFICIENCY OF 70% WHEN RATED IN ACCORDANCE WITH DOE 10CFR431.

(C403.5 ECONOMIZERS) AIR ECONOMIZERS SHALL BE PROVIDED ON ALL NEW SYSTEMS INCLUDING THOSE SERVING COMPUTER SERVER ROOMS, ELECTRONIC EQUIPMENT, RADIO EQUIPMENT, AND TELEPHONE SWITCHGEAR. ECONOMIZERS SHALL COMPLY WITH SECTIONS C403.5.1 THROUGH C403.5.5.

EXCEPTION: ECONOMIZERS ARE NOT REQUIRED FOR THE SYSTEMS LISTED BELOW: SYSTEMS COMPLYING WITH SECTION C403.6 DEDICATED OUTDOOR AIR SYSTEMS (DOAS) WITH YEAR- ROUND COOLING LOADS FROM LIGHTS AND EQUIPMENT OF LESS THAN 5 WATTS PER SQUARE FOOT.

(C406.1 ADDITIONAL ENERGY EFFICIENCY CREDIT REQUIREMENTS) NEW BUILDINGS AND CHANGES IN SPACE CONDITIONING, CHANGE OF OCCUPANCY AND BUILDING ADDITIONS IN ACCORDANCE WITH CHAPTER 5 SHALL COMPLY WITH SUFFICIENT PACKAGES FROM TABLE C406.1 SO AS TO ACHIEVE A MINIMUM NUMBER OF 6 CREDITS.

FANS THAT ARE INTENDED TO OPERATE ONLY DURING EMERGENCY CONDITIONS.

2018 WSEC TABLE C403.10.1.1 OUTDOOR AIR DUCTWORK INSULATION MINIMUM DUCT CLIMATE INSTALLED DUCT DUCT LOCATION AND USE AIRFLOW NOTES SYSTEM ZONE INSULATON R-VALUE^{a, b} SEE EXCEPTION 1 TO OUTDOOR AIR INSIDE CONDITIONED SPACE 4C AND R-7 < 2800 CFM SECTION C403.10.1.1 FOR ADDITIONAL DETAILS

a. INSULATION R-VALUES, MEASURED IN h x ft²F/BTU, ARE FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE FILM RESISTANCE. THE REQUIRED MINIMUM THICKNESSES DO NOT CONSIDER WATER VAPOR TRANSMISSION AND POSSIBLE SURFACE CONDENSATION. INSULATION RESISTANCE MEASURED ON A HORIZONTAL PLAN IN ACCORDANCE WITH ASTM C518 AT A MEAN TEMPERATURE OF 75°F AT THE INSTALLED THICKNESS. b. SEE INTERNATIONAL MECHANICAL CODE SECTIONS 603.12 AND 604 FOR FURTHER DETAILS ON DUCT INSULATION REQUIREMENTS.

	2018 WSEC TABLE SUPPLY, RETURN, EXHAUST, AND RELI		WORK INSULATION	
DUCT SYSTEM	DUCT LOCATION AND USE	CLIMATE ZONE	MINIMUM INSTALLED DUCT INSULATON R-VALUE ^{a, b}	NOTES
SUPPLY AIR	WITHIN CONDITIONED SPACE THAT THE DUCT DIRECTLY SERVES WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55°F OR GRATER THAN 105°F	4C AND 5B	NONE	SEE SECTION C403.10.1.2 FOR DETAILS
SUPPLY AIR	WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS 55°F OR GREATER AND 105°F OR LESS	4C AND 5B	NONE	
RETURN OR EXHAUST AIR	WITHIN CONDITIONED SPACE , DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN <i>AUTOMATIC</i> SHUTOFF DAMPER	4C	R-8	
RELIEF OR EXHAUST AIR	CONDITIONED SPACE AND DOWNSTREAM OF AND AUTOMATIC SHUTOFF DAMPER	4C AND 5B	R-16	

a. INSULATION R-VALUES, MEASURED IN h x ft²F/BTU, ARE FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE FILM RESISTANCE. THE REQUIRED MINIMUM THICKNESSES DO NOT CONSIDER WATER VAPOR TRANSMISSION AND POSSIBLE SURFACE CONDENSATION. INSULATION RESISTANCE MEASURED ON A HORIZONTAL PLAN IN ACCORDANCE WITH ASTM C518 AT A MEAN TEMPERATURE OF 75°F AT THE INSTALLED THICKNESS. b. SEE INTERNATIONAL MECHANICAL CODE SECTIONS 603.12 AND 604 FOR FURTHER DETAILS ON DUCT INSULATION

REQUIREMENTS. c. INCLUDES ATTICS ABOVE INSULATED CEILINGS, PARKING GARAGES AND CRAWL SPACES

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	L
IAO		W
CW1	CLOTHES WASHING MACHINE - O.F.C.I. PROVIDE SHOCK ARRESTORS AND RECESSED WALL BOX WITH DRAIN OUTLET AND TWO WATER VALVES GUY GRAY B-200 WALL BOX.	2"
DF1	ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA, SINGLE) - ELKAY LZS8WSVR, BARRIER FREE, SELF CONTAINED, SINGLE WALL HUNG, ELECTRIC REFRIGERATED WATER COOLER, 8.0 GPH AT 50°F WATER TEMP. WITH 80°F INLET WATER, FRONT/SIDE PUSH PADS, VANDAL RESISTANT BUBBLER, PROVIDE COLD WATER STOP VALVE AND P-TRAP, BOTTLE FILLER STATION, ELECTRONIC SENSOR WITH TOUCHLESS ACTIVATION, 20 SEC AUTO SHUT-OFF, VISUAL USER INTERFACE, 115V, 5.0 FLA, 370 W.	1-1/2" EA
DW1	UNDERCOUNTER DISHWASHER - OFCI, ROUGH-IN AND CONNECT DOUBLE HW STOP VALVE AT ADJACENT SINK, PROVIDE AIR GAP FITTING AT SINK.	
EE1	EMERGENCY EYEWASH - GUARDIAN MODEL G1806, SINKTOP MOUNTED, 1.2 GPM, FLOW CONTROLS AND DUST COVER, CHROME PLATED STAY OPEN BALL VALVE, SWING AWAY FEATURE, 1/2" INLET, G6020 THERMOSTATIC MIXING VALVE, TEMPERATURE GAUGE. FIELD COORDINATE MOUNTING LOCATION WITH SINK AND FAUCET.	
ES1	EMERGENCY SHOWER/EYEWASH STATION - GUARDIAN MODEL G1902, COMBINATION SHOWER AND EYEWASH STATION, 10"Ø ORANGE ABS SHOWER HEAD, 20 GPM, UNIVERSAL SIGN, CHROME PLATED STAY OPEN BALL VALVE WITH STAINLESS STEEL PULL HANDLE, 1" INLET, 12" STAINLESS STEEL EYEWASH BOWL, (2) SPRAY HEADS, 1/2" STAY OPEN BALL VALVE, PROVIDE WITH GUARDIAN THERMOSTATIC MIXING VALVE MODEL G3800LF.	2"
FD1	FLOOR DRAIN (SLAB ON GRADE) - ZURN 415B, DURA-COATED CAST IRON BODY, NICKEL BRONZE STRAINER, PROVIDE WITH TRAP PRIMER LINE.	2"
HB1	HOSE BIBB - ZURN Z1320XL, NON-FREEZE, ANTI-SIPHON, SELF-DRAINING, STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER.	
HB2	HOSE BIBB - ZURN Z1348-BFP, NON-FREEZE, ANTI-SIPHON, SELF-DRAINING, DUAL HOT/COLD EXPOSED FAUCET.	
L1	LAVATORY (ADA) - WALL HUNG, DURAVIT VERO AIR WASHBASIN #2350800027, VITREOUS CHINA, DECK MOUNTED FAUCET, GRID DRAIN, STOPS & SUPPLIES, 1-1/4" CP, 17 GA CHROME PLATED P-TRAP, P-TRAP/ H&C COVERS, WITH ASSE 1070 THERMOSTATIC MIXING VALVE. PROVIDE WALL CARRIER.	2"
MS1	JANITOR SINK - FLOOR MOUNTED ZURN Z1996-24 24" X 24" MOLDED STONE MOP SERVICE BASIN; 3" STAINLESS STEEL DRAIN ASSEMBLY WITH NEOPRENE PUSH-ON GASKET. REMOVE GASKET FOR 3" CAULK CONNECTION; SERVICE SINK FCT W/6" INTEGRAL VB SPOUT W/HOSE THREAD OUTLET & PAIL HOOK, ADJUSTABLE SWIVEL INLETS, 2-1/2" LEVER HANDLES; WALL GUARD; HOSE AND HOSE BRACKET; MOP HANGER	3"
S1	SINK - SINGLE COMPARTMENT (STAINLESS STEEL, COUNTERMOUNT) JUST SL-ADA-2131-A-GR, 21"X31", 6.5" MAX DEPTH, JUST J-35 CP STRAINER, CHICAGO 2300-8ABCP SINGLE CONTROL DECK MOUNTED FAUCET, 10" SPOUT, 2.2 GPM AERATOR, GRID DRAIN, SCREWDRIVER STOPS AND SUPPLIES, 17 GA CHROME PLATED P-TRAP, PLUMBEREX HANDY-SHIELD MAXX SERIES P-TRAP/H&C WATER COVERS, PROVIDE IN-SINK-ERATOR BADGER 5XP GARBAGE DISPOSER, 3/4HP 120V 8.1A, PROVIDE IN-SINK-ERATOR H770 INSTA-HOT WATER DISPENSER, 120V, 6.5A, 60 CUPS OF 200 DEGREE F WATER/HR.	2"
S2	SINK (SINGLE COMPARTMENT) - JUST MODEL SL-2125-A-GR, 25"X21" NOM. MAX. 8" DEEP, J-35 CENTER DRAIN, CHICAGO FAUCETS 2301-ABCP DECK-MOUNTED SINK FAUCET WITH SIDE SPRAY, CERAMIC OPERATING CARTRIDGE, SCREWDRIVER STOPS & SUPPLIES, 17 GA CHROME PLATED P-TRAP.	2"
S3	SINK (SINGLE COMPARTMENT) - JUST MODEL SL-2125-A-GR, 25"X21" NOM. MAX. 8" DEEP, CENTER DRAIN, ZURN Z821CO-XL-FC GOOSENECK SPOUT WITH LAMINAR FLOW SPOUT END, ZURN Z85500-XL FOOT PEDALS, SCREWDRIVER STOPS & SUPPLIES, 17 GA CHROME PLATED P-TRAP.	2"
S4	HAND SINK - JUST JS-122-T STAINLESS STEEL WASH UP SINK, FAUCET JS-47-TGSA, 2.0 GPM FLOW RATE, GRID DRAIN W/ TAILPIECE; 17 GA CHROME PLATED P-TRAP; STANDARD STOPS AND SUPPLIES, ENSURE SINK HAS AN ASSE 1070 CERTIFIED MIXING VALVE. PROVIDE ADA TRAP AND CW/HW SUPPLY WRAP.	2"
S5	CUP SINK - ELKAY CUPR4, STAINLESS STEEL SINGLE BOWL CUP DROP-IN SINK, CHICAGO FAUCET LWS1-A11-A DECK MOUNTED CW ONLY, TAILPIECE; 17 GA CHROME PLATED P-TRAP; STANDARD STOPS AND SUPPLIES, COORDINATE LOCATION OF SINK AND FAUCET.	2"
WB1	REFRIGERATOR - O.F.C.I., ROUGH IN AND CONNECT CW, GUY GRAY BIM875 WALL BOX, PROVIDE SHOCK ARRESTOR AND RECESSED WALL BOX.	
WC1	WATER CLOSET (ADA) - ZURN Z5560 1.6 GPF ELONGATED PRESSURE ASSIST TWO PIECE TOILET, ADA HEIGHT; ELONGATED, STANDARD WHITE, OPEN FRONT TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE; HEAVY-DUTY LOOSE KEY STOP AND CLOSET SUPPLY KIT (CONNECTIONS 1/2" IPS X 3/8" OD); Z5970 CLOSET FLANGE BRASS BOLT KIT	3"

	PLUMBING EQUIPMENT SCHEDULE										
NO	ITEM	DESCRIPTION									
WH-1	ELECTRIC WATER HEATER	ELECTRIC WATER HEATER - AO SMITH DRE-120-24, 119 GALLON STORAGE, 24KW, 240V-3PH, W/ PRESSURE & TEMPERATURE RELIEF VALVE, 1-1/4" H&C CONNECTIONS, SET @ 140°F, 98 GPH AT 100 DEGREES F RISE, PROVIDE DRAIN PAN AND SEISMIC STRAPS.									
ET-1	EXPANSION TANK	AO SMITH EXPANSION TANK MODEL PMC-10, NSF LISTED, CHARGE AIR PRESSURE TO MATCH WATER HEATER WATER PRESSURE (IN NON-HEATING MODE), 9.25 GALLON TANK VOLUME, 80 LBS OPERATING WEIGHT, 16"DIA X 16"HGT.									
CP-1	HOT WATER CIRCULATION PUMP	GRUNDFOS UP 15-18B5/LC, 5GPM @ 7FTHD, 1/25 HP, 120V-1PH, W/AQUASTAT & TIMER.									
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR	WATTS MODEL LF919 WITH AIR GAP, SIZE 2"									
TP	TRAP PRIMER VALVE	PRECISION PLUMBING PRODUCTS MODEL PR-500 OR ZURN Z1021 WATER SAVER TRAP PRIMER									

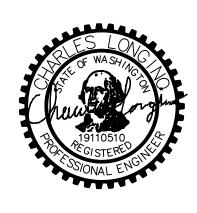


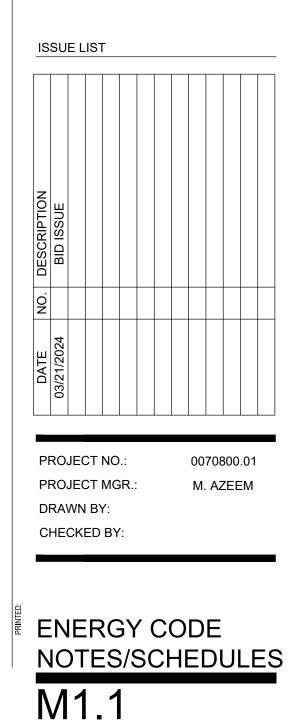
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OCAL CONNE	ECTIONS										
V	HW	CW									
1-1/2"	3/4"	3/4"									
1-1/2" EA		1/2" EA									
	1/2"										
	1/2"	1/2"									
1-1/2"	1-1/2"	1-1/2"									
2"											
		3/4"									
	1/2"	1/2"									
1-1/2"	1/2"	1/2"									
2"	1/2"	1/2"									
1-1/2"	1/2"	1/2"									
1-1/2"	1/2"	1/2"									
1-1/2"	1/2"	1/2"									
1-1/2"	1/2"	1/2"									
1-1/2"		1/2"									
		1/2"									
2"		1/2"									

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	FAN SCHEDULE													
EQUIP.				E.S.P.	FAN MOTOR			NOISE						
TAG	AREA SERVED	MFG' / MODEL NUMBER	CFM	INCHES	HP/			dBA	DRIVE	CONFIGURATION	WEIGHT			
				W.G.	WATTS	VOLTS	PH.	SONES			(LBS)			
EF-1	038 ELECT	GREENHECK / SP-A390-VG	180	0.8	51 W	120	1	5.5 S	DIRECT	CABINET	30			
EF-2	FUME HOOD	GREENHECK / USF-10-1-B3	600	0.5	1/4HP	230	1	55 DBA	DIRECT	UTILITY SET	100			
SF-1	036 LAB	GREENHECK / SQ-90-VG	600	0.3	1/10HP	230	1	52 DBA	DIRECT	INLINE	45			
NOTE C.							0.41							

NOTES: 1. FAN SHALL HAVE 120V MOTORIZED DAMPER WITH ACTUATOR. COORDINATE WITH ELECTRICAL 2. PROVIDE WITH SPEED CONTROL

3. PROVIDE BACKDRAFT DAMPER

4. FAN EXHAUST SHALL BE INSTALLED TO SIDEWALL CAP.

5. DUCT CONNECTS TO FAN WITH APPROVED FLEXIBLE CONNECTORS.

6. MOUNT FAN IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS AND CLEARANCES.

7. PROVIDE TSTAT FOR FAN CONTROL. ON AT 85 DEGREES/OFF AT 80 DEGREES. 8. FAN TO BE INTERLOCKED WITH FUME HOOD

9. PROVIDE FAN WITH FIELD ROOF CURB

					MITSUB	SHI ELECT	RIC TRANE I	IVAC US: CIT	Y MULTI VF	RF INDOOR U	INIT SCHEDU	ILE						
				Nominal Cooling Capacity	Nominal Heating Capacity	Cooling Total	-	e Heating Capacity	-	-		Fan Speed	Peak Fan Airflov			Power Cooling	Electrical	
Room Name	Tag Reference	Model	Туре	(BTU/h)	(BTU/h)	Capacity (BTU/I	h) Capacity (BTU/h) (BTU/h)	(°F)	(°F)	(inch)	Setting	(cfm)	(dBA)	Voltage / Phase	208V/230V (kW)	MCA/MFS	Notes / Options
032 LOBBY	FCU-1	PKFY-P15NLMU-E.TH	Wall -Mounted	15,000.0	17,000.0	12,648.3	9,260.5	9,588.3	50.5	95.2	1/4 / 1/2	HIGH	353	29-34-37-40	208/230V/1- phase	0.04	0.24/0.24/15	1, 2, 3, 4, 5, 6
034 BILLING			Ceiling-Cassette												208/230V/1-			
OFFICE	FCU-2	PLFY-P05NFMU-E	(Four-Way)	5,000.0	5,600.0	4,216.1	4,163.2	3,158.5	61.1	80.5	1/4 / 1/2	HIGH	280	26-28-30	phase	0.02	0.24/0.24/15	1, 2, 3, 4, 5, 6
033 BREAKROOM	FCU-3	PLFY-P08NFMU-E	Ceiling-Cassette (Four-Way)	8,000.0	9,000.0	6,745.8	5,878.7	5,076.2	57.5	84.9	1/4 / 1/2	HIGH	315	26-30-33	208/230V/1- phase	0.02	0.28/0.28/15	1, 2, 3, 4, 5, 6
036			Ceiling-Cassette												208/230\//1-			
LABORATORY	FCU-4	PLFY-P15NFMU-E	(Four-Way)	15,000.0	17,000.0	12,648.3	9,259.1	9,588.3	52.8	92.8	1/4 / 1/2	HIGH	390	28-33-39	phase	0.03	0.35/0.35/15	1, 2, 3, 4, 5, 6
036			Ceiling-Cassette												208/230\//1-			
LABORATORY	FCU-5	PLFY-P15NFMU-E	(Four-Way)	15,000.0	17,000.0	12,648.3	9,259.1	9,588.3	52.8	92.8	1/4 / 1/2	HIGH	390	28-33-39	phase	0.03	0.35/0.35/15	1, 2, 3, 4, 5, 6
037 OFFICE	FCU-6	PKFY-P04NLMU-E.TH	Wall -Mounted	4,000.0	4,500.0	3,372.9	2,734.9	2,538.1	57.7	85.9	1/4 / 1/2	HIGH	148	22-24-26-28	208/230V/1- phase	0.02	0.24/0.24/15	1, 2, 3, 4, 5, 6
															208/230\//1-			
042 CORRIDOR	FCU-7	PKFY-P04NLMU-E.TH	Wall -Mounted	4,000.0	4,500.0	3,372.9	2,734.9	2,538.1	57.7	85.9	1/4 / 1/2	HIGH	148	22-24-26-28	phase	0.02	0.24/0.24/15	1, 2, 3, 4, 5, 6
044 OFFICE	FCU-11	PKFY-P18NLMU-E.TH	Wall -Mounted	18,000.0	20,000.0	15,178.0	11,359.2	11,280.3	50.7	93.9	1/4 / 1/2	HIGH	438	31-36-41-46	208/230V/1- phase	0.05	0.24/0.24/15	1, 2, 3, 4, 5, 6
															208/230\//1-			
046 OFFICE	FCU-10	PKFY-P18NLMU-E.TH	Wall -Mounted	18,000.0	20,000.0	15,178.0	11,359.2	11,280.3	50.7	93.9	1/4 / 1/2	HIGH	438	31-36-41-46	phase	0.05	0.24/0.24/15	1, 2, 3, 4, 5, 6
047 OFFICE	FCU-9	PKFY-P18NLMU-E.TH	Wall -Mounted	18,000.0	20,000.0	15,178.0	11,359.2	11,280.3	50.7	93.9	1/4 / 1/2	HIGH	438	31-36-41-46	208/230V/1- phase	0.05	0.24/0.24/15	1, 2, 3, 4, 5, 6
															208/230V/1-		0.63(208V)/0.63(
048 CONF	FCU-8	PKFY-P30NKMU-E2.TH	Wall -Mounted	30,000.0	34,000.0	25,296.6	20,824.8	19,176.6	53.8	89.4	3/8 / 5/8	HIGH	918	43-49	phase	0.07	230V)/15	1, 2, 3, 4, 5, 6
045 OFFICE	FCU-12	PKFY-P18NLMU-E.TH	Wall -Mounted	18,000.0	20,000.0	15,178.0	11,359.2	11,280.3	50.7	93.9	1/4 / 1/2	HIGH	438	31-36-41-46	208/230V/1- phase	0.05	0.24/0.24/15	1, 2, 3, 4, 5, 6
043 OPEN			Ceiling- Concealed												208/230V/1-			
OFFICE	FCU-13	PEFY-P36NMAU-E4	(Ducted)	36,000.0	40,000.0	30,355.9	26,858.3	22,560.7	55.2	86.5	3/8 / 5/8	HIGH	1271	35-39-43	phase	0.222	4.25/15	1, 2, 3, 4, 5, 6

Notes & Options:

1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)

2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)

4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and

outdoor unit schedule for associated system.

Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting

(full demand/partial demand) prior to generating this schedule.

6 It is recommended to always base heating corrected capacity on full demand.

ELECTRIC DUCT HEATER SCHEDULE

					PRESSURE	ELECT	RICAL					
TAG	LOCATION	MFG / MODEL	KW	SIZE	DROP (IN. W.C.)	V	PH	REMARKS				
DH-1	DOAS-1	TUTCO EDH	3	10"x 10"	0.025	240	3	1, 2, 3				
DH-2	DOAS-2	TUTCO EDH	3	10"x 10"	0.025	240	3	1, 2, 3				
DH-3	SF-1	TUTCO EDH	6	12"x 10"	0.025	240	3	1, 2, 4				
NOTES												

NOTES: 1. PROVIDE SCR CONTROL AND DUCT MOUNTED DISCHARGE AIR TEMPERATURE (DAT) SENSOR. 2. PROVIDE BUILT-IN DISCONNECT SWITCH 3. INSTALL DOWNSTREAM OF DOAS, DAT SET POINT 65°F (ADJUSTABLE).

4. INSTALL DOWNSTREAM OF FAN, DAT SET POINT 60°F (ADJUSTABLE).

ELECTRIC HEATER SCHEDULE

EQUIP.					CONTROL	ELECTRICAL	
TAG	LOCATION	MFG/MODEL #	WATTS	ORIENTATION	OPTION	V/PH	REMARKS
EH-1	041 RR	KING/PAW1215	250	WALL MOUNT	REMOTE TSTAT	120/1	1, 2
EH-2	040 RR	KING/PAW1215	250	WALL MOUNT	REMOTE TSTAT	120/1	1,2
EH-3	054 FIRE ROOM	KING/PAW1215	250	WALL MOUNT	INTEGRAL TSTAT	120/1	1
EH-4	PUMP ROOM	KING/PAW1215	500	WALL MOUNT	INTEGRAL TSTAT	120/1	1
UH-1	029 STORAGE	KING/KB2405-1-T-B1	5000	WALL MOUNT	REMOTE TSTAT	240/1	1, 2, 3

NOTES: 1. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL FEATURES AND ALL OTHER TRADES 2. PROVIDE WALL MOUNTED TSTAT. MOSTAT

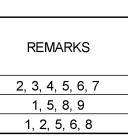
3. LINE VOLTAGE THERN	2.	PROVIDE WALL MOU
	3.	LINE VOLTAGE THERM

EQUIP.	
TAG	
CU-2	
CU-3	E
	•

NOTES: 1. PROVIDE WIRELESS REMOTE CONTROLLER 2. INSTALL UNIT 72" AFF 3. PROVIDE OPTIONAL AIR OUTLET GUIDES 4. INDOOR UNIT POWER WIRING FROM OUTDOOR UNIT. 5. PROVIDE GOBI UNDERMOUNT CONDENSATE PUMP. PUMP TO NEAREST SINK TAIL PIECE.

6. NO ECONOMIZER PROVIDED PER 2018 WSEC C403.3 EXCEPTION 11.

7. PROVIDE SEACOAST SPRAY ON OUTDOOR CONDENSING UNIT



MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

			Nominal Cooling	Nominal Heating	Cooling Efficiency	Heating COP @	Corrected Cooling Total	Corrected Heating Capacity	Sound Pressure			Per Module 3/230		_
Tag Reference	Model Number	Modules	Capacity (BTU/h)	Capacity (BTU/h)	-	47°F	Capacity (BTU/h)	(BTU/h)		Voltage / Phase	1	RFS	MOCP	Notes / Options
										208/230V / 3-				
CU-1	PURY-P168TNU-A-BS	P168	168,000.0	188,000.0	23.55 / 10.8	3.55	172,017.0	128,934.4	62.5/66.5	phase 3-wire	61/57	70/70	100/90	1, 2, 3, 4, 5

Notes & Options:

1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)

2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.

4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.

5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with

5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on

LOSSNAY ENERGY RECOVERY VENTILATOR SCHEDULE

						Nominal Recov	very Effectiveness (Speed)	Extra High Fan			
		Interlocked or		Nominal Airflow	Max ESP	Temperature					
Lossnay Tag	Model Number	Stand Alone	Core Type	(cfm)	(INWG)	Recovery	Enthalpy Cooling	Enthalpy Heating	Voltage / Phase	MCA / MOCP	Notes / Options
			Fixed Permeable						208-230V/1-		
DOAS-1	LGH-F380RVX2-E	Stand-Alone	Cross Plate	380	0.86	65.0%	49.0%	61.0%	phase	/15	1, 2, 3
			Fixed Permeable						208-230V/1-		
DOAS-2	LGH-F300RVX2-E	Stand-Alone	Cross Plate	300	1.00	65.5%	50.0%	63.0%	phase	/15	1, 2, 3

Notes & Options:

1 Max external static pressure is at airflow listed with fan set on extra high speed.

		-	VRF HEAT	RECOVERY	BRANCH CI	RCUIT CON	TROLLER	-		-
				Type (double /		Connected		Power Cooling		
System Tag	Tag Reference	M-NET Address	Model Number	Main / Sub)	Number of Ports	Capacity to BC	Voltage / Phase		MCA 208/230	Notes / Options
	-		CMB-P1016NU-				208/230V/1-			
System 1	BC-1	52	JA1	Main	16	204,000.0	phase	0.258/0.333		1, 2

Notes & Options:

1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated. 2 For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

DUCTI FOO ODUIT OVOTEMA LIFAT DUMAD

	DUCTLESS SPLIT SYSTEM HEAT PUMP																				
OUTDOOR CONDENSING UNIT																					
AREA SERVED	MFG' / MODEL NUMBER	NOMINAL	COOL CA	P. MBH	WEIGHT	NOISE	HEAT			I	ELEC. REQ.		EQUIP.	MFG' / MODEL NUMBER	AIRFLOW	ESP	EL	EC. REQ.		WEIGHT	REMARKS
		TON	TOTAL	RANGE	LBS	DBA	CAP. MBH	HSPF	SEER	MCA	VOLTS	PH.	TAG		CFM	IN W.G.	MCA	VOLTS	PH.	LBS	
ELEC/TELE ROOM	MITSUBISHI/PUZ-A24NHA7-BS	2.0	24.0	10.0 - 24.0	155	50	28	11	21.4	19.0	208/230	1	HP-1	MITSUBISHI/PKA-A24KA7	635 - 775	0.10	1.0	208/230	1	53	ALL
ELEVATOR EQUIP. ROOM	MITSUBISHI/PUZ-A24NHA7-BS	2.0	24.0	10.0 - 24.0	155	50	28	11	21.4	19.0	208/230	1	HP-2	MITSUBISHI/PKA-A24KA7	635 - 775	0.10	1.0	208/230	1	53	ALL

				wired leseney lesel r	
				uired lossnay local r	
3 Was	hable factory sta	andard pre-filter on	return and O/A int	ake side of cross pla	ate cor
	-				
				VRF HEAT	REC
					T



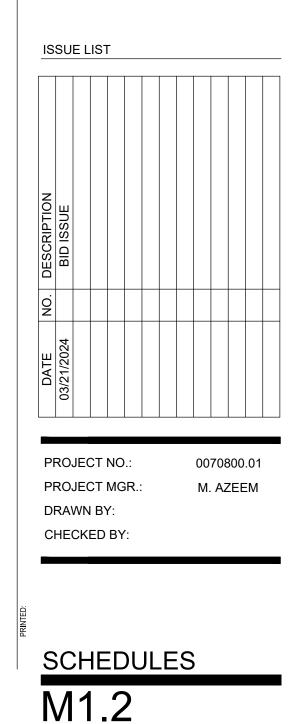
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controller (stand alone operation) and M-NET connection points of associated systems.







			VE	ENTIL	ATIO	N SCHEDU	ILE			
SYSTEM	ROOM	AREA	#	CFM/	CFM/	MIN. OSA CFM	MIN. OSA CFM	EXHAUST	EXHAUST	REMARKS
	NO./NAME	SF	PEOPLE	PERSON	SF	REQUIRED EZ=1.0	PROVIDED	CFM REQUIRED	CFM PROVIDED	
DOAS-1	LOBBY 032	182	4	5	0.06	31	40			
DOAS-1	BILLING OFFICE 034	151	2	5	0.06	19	25			
DOAS-1	BREAKROOM 033	218	6	6	0.06	49	55			
DOAS-1	STORAGE 106	66	0	0	0	0	40			
DOAS-1	JANITOR CLOSET 035	95	0	0	0	0	0	95	100	
DOAS-1	LAB 036	688	4	10	0.18	164	175			
DOAS-1	CORRIDOR 042	268	0	0	0.06	16	20			
DOAS-1	MEN'S LOCKER RM 041	98	0	0	0	0	0	70	140	
DOAS-1	WOMEN'S LOCKER RM 040	98	0	0	0	0	0	70	140	
DOAS-1	OFFICE 037	161	2	5	0.06	20	25			
		2025				299	380	235	380	

SYSTEM	ROOM	AREA	#	CFM/	CFM/	MIN. OSA CFM	MIN. OSA CFM	EXHAUST	EXHAUST	REMARKS
	NO./NAME	SF	PEOPLE	PERSON	SF	REQUIRED EZ=1.0	PROVIDED	CFM REQUIRED	CFM PROVIDED	
DOAS-2	OPEN OFFICE 043	1621	12	5	0.06	157	160	0	160	
DOAS-2	PRIVATE OFFICE 044	129	1	5	0.06	13	20	0	0	
DOAS-2	PRIVATE OFFICE 045	171	1	5	0.06	15	20	0	0	
DOAS-2	PRIVATE OFFICE 046	129	1	5	0.06	13	20	0	0	
DOAS-2	PRIVATE OFFICE 047	129	1	5	0.06	13	20	0	0	
DOAS-2	CONF ROOM 048	286	8	5	0.06	57	60	0	0	
DOAS-2	MEN'S RR 049	67	0	0	0	0	0	50	70	
DOAS-2	WOMEN'S RR 050	56	0	0	0	0	0	50	70	
		2588				268	300	100	300	

		SIZE	MAX	HOOD	ELECT	RICAL		
EQUIP.	MFG' / MODEL NUMBER	LXW	EXHAUST	CONSTRUCTION			WEIGHT	
TAG			CFM		VOLT	AMP	LBS.	REMARKS
H-1	GE / JVX536ODJBB	36"x 20"	310	STAINLSS STEEL	120	3	40	ALL

NOTES:

1. RESIDENTIAL TYPE HOOD AND EXHAUST DUCT

2. HOOD EXHAUST AIRFLOW IS BELOW 400 CFM AND WILL BE USED INTERMITANTLY. NO MAKE UP AIR IS REQUIRED PER IMC SECTION 505.2.

3. INSTALL DUCT UP TO ROOF CAP

AIR TERMINAL DEVICE SCHEDULE										
ITEM	MARK	MANUFACTURER	MODEL	MATERIAL	MOUNTING	FINISH	REMARKS			
CEILING DIFFUSER	CDS	TITUS	MCD	STEEL	SURFACE	ENAMLED	BORDER TYPE 1			
CEILING GRILLE	CGS	TITUS	50F	ALUMINUM	SURFACE	ENAMLED	BORDER TYPE 1			
WALL REGISTER	L or HWR	TITUS	300RLHD	STEEL	SURFACE	ENAMLED	DBL. DEFL. / VERT FRONT			
WALL GRILLE	L or HWG	TITUS	355RL	STEEL	SURFACE	ENAMLED	40 DEGREE FIXED BLADES			
CEILING DIFFUSER	CDL	TITUS	MCD	STEEL	LAY-IN	ENAMLED	BORDER TYPE 3			
CEILING GRILLE	CGL	TITUS	50F	ALUMINUM	LAY-IN	ENAMLED	BORDER TYPE 3			

NOTE: NECK CONNECTION SIZE AND TERMINAL SIZE AS NOTED ON MECHANICAL FLOOR PLAN

					AIR	FREE AREA	DIMENSION	NET FREE AREA	PRESS.	NOTES	
MFG' / MODE	EL NUMBER	TYPE	SERVICE	TYPE	FLOW	VELOCITY	WХН	REQUIRED	DROP		
					CFM	FT / MIN.	IN. X IN.	SQ. FT.	IN. W.G.		
GREENHECI	K ESD-635	STATIONARY	DOAS-1 & SF-1	INTAKE	980	800	26X18	1.20	0.10	1, 2	
GREENHECI	K ESD-635	STATIONARY	DOAS-2	INTAKE	300	592	18X14	0.47	0.05	1, 2	
GREENHECI	K ESD-635	STATIONARY	ELECTRICAL ROOM EF-1	INTAKE	180	747	14X12	0.24	0.08	1, 2	

NOTES:

1. PROVIDE BAROMETRIC RELIEF DAMPER SAME SIZE AS LOUVER. 2. PROVIDE BIRD SCREEN

ROOF EXHAUST HOOD SCHEDULE											
					AIR	SP	THROAT				
EQUIP.	MFG' / MODEL NUMBER	TYPE	SERVICE	TYPE	FLOW	(IN. WG.)	DIMENSIONS	WEIGHT			
TAG					CFM		W" x L"	LBS.	REMARKS		
REH-1	GREENHECK / GRSR-8	ROOF	DOAS 2 EXH	RELIEF	300	0.068	8"X8"	40	1, 2, 3		
REH-2	BROAN 634	ROOF	RANGE EXH	RELIEF	310	0.1	10"X10"	20	3, 4		

NOTES: 1. PROVIDE WITH GREENHECK SLOPED ROOF CURB 2. PROVIDE BIRD SCREEN

3. PROVIDE WITH BAROMETRIC RELIEF DAMPER

KITCHEN EXHAUST HOOD SCHEDULE

LOUVER SCHEDULE

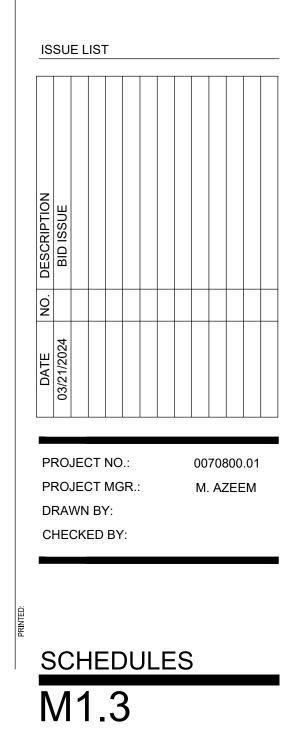
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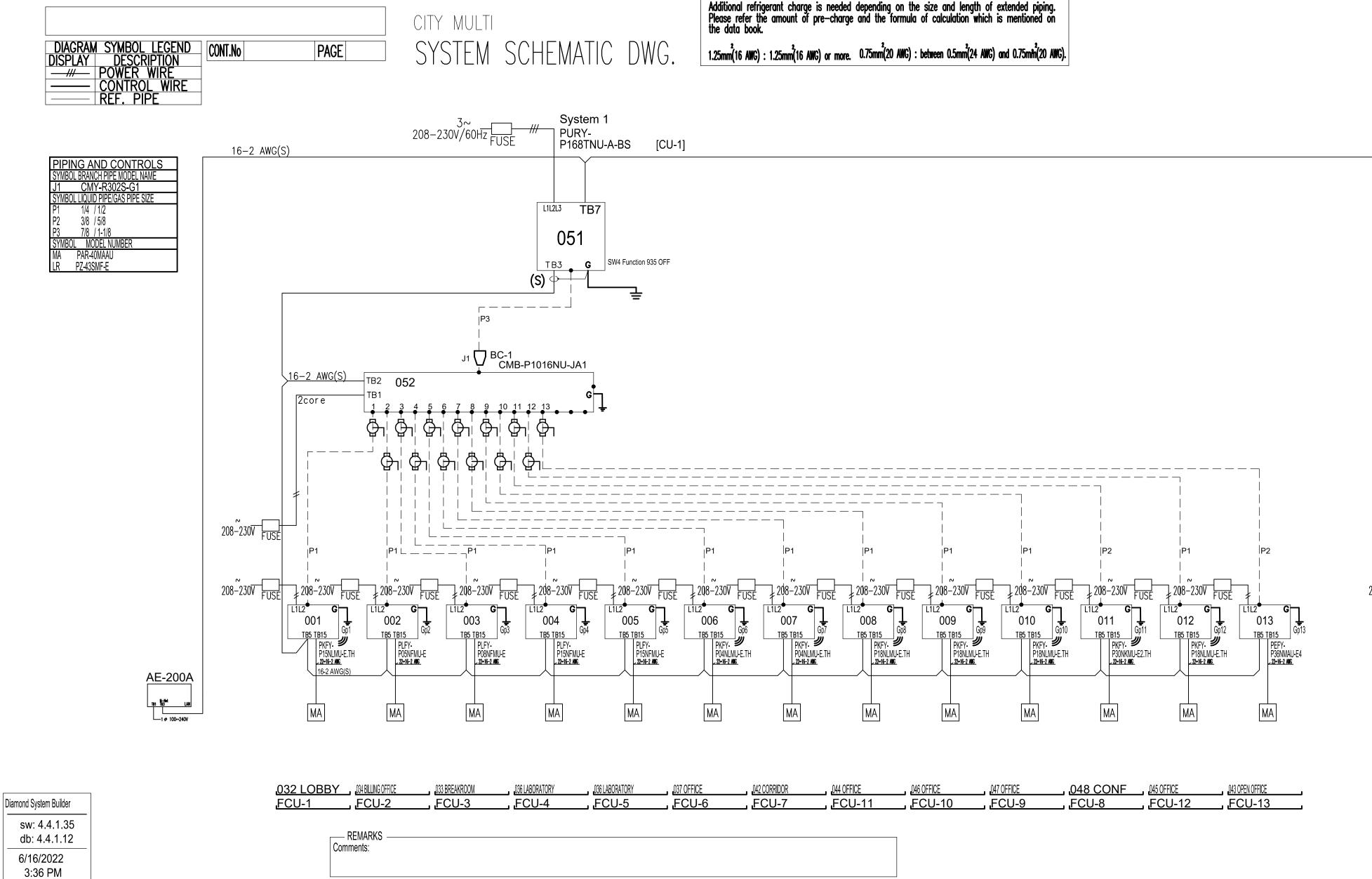


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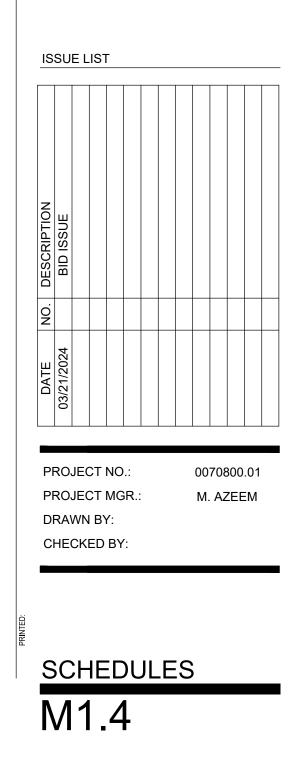
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.



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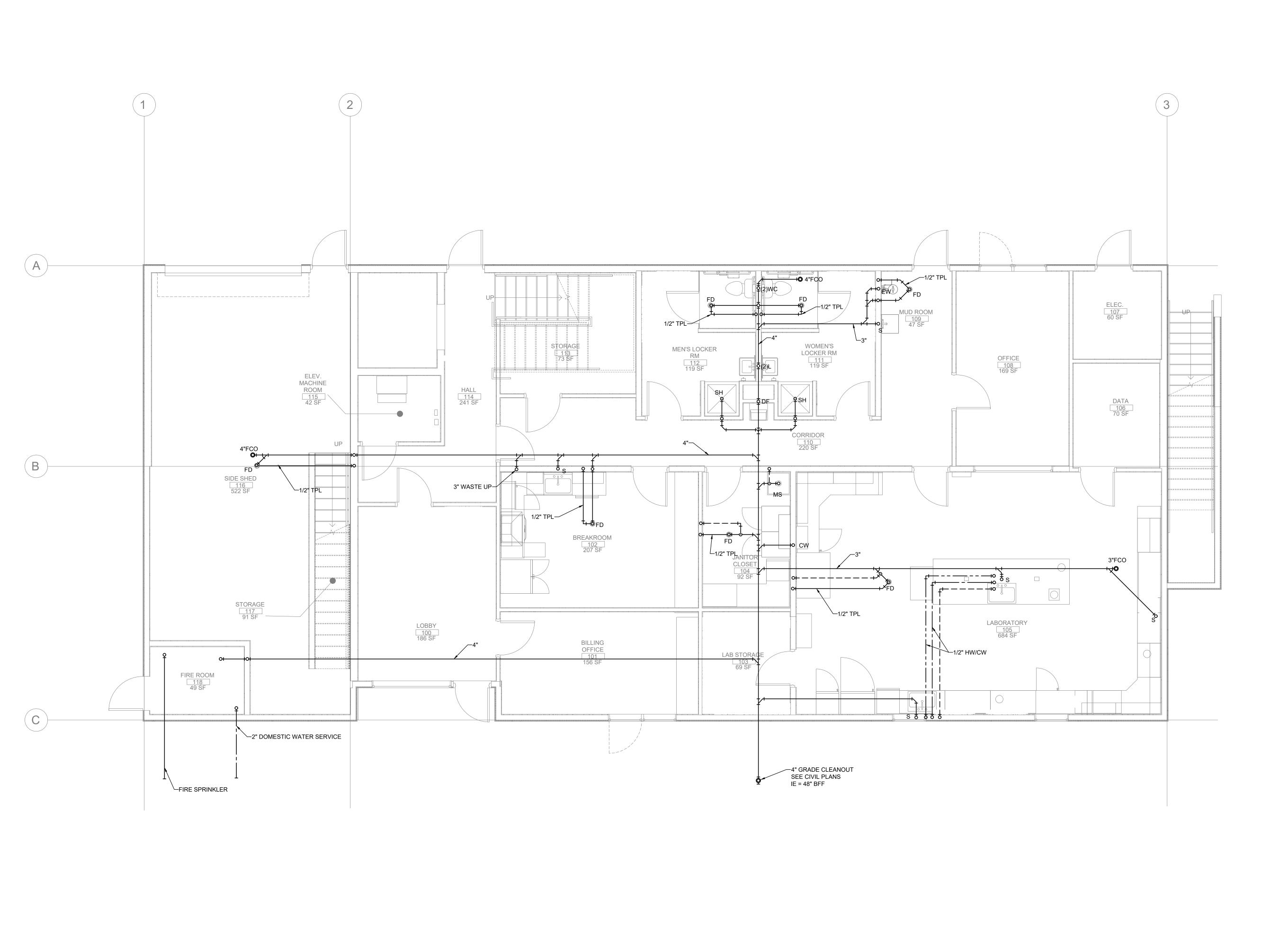


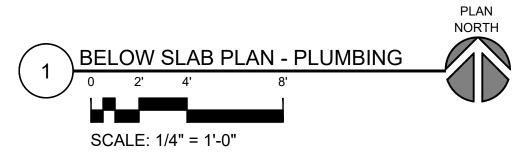


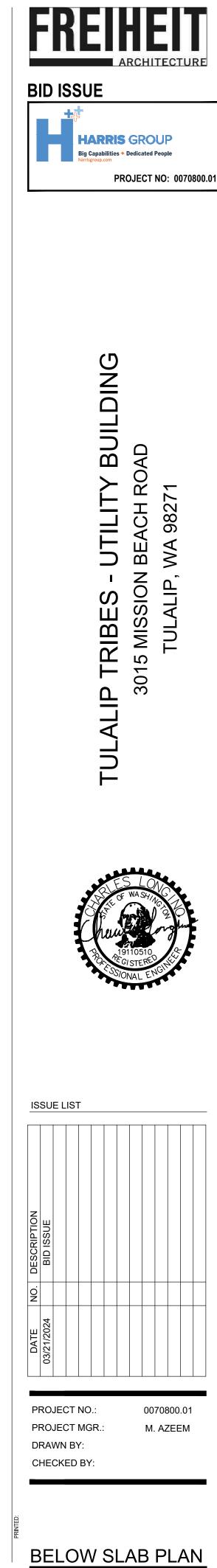


~ -230V FUSE	208-230V FU	ISE =	
T	014 Gp1		5 Gp15
TM4	TB5 LGH- F380RVX2	TM4 TB5 2-E	LGH- F300RVX2-E
L	.R	LR	

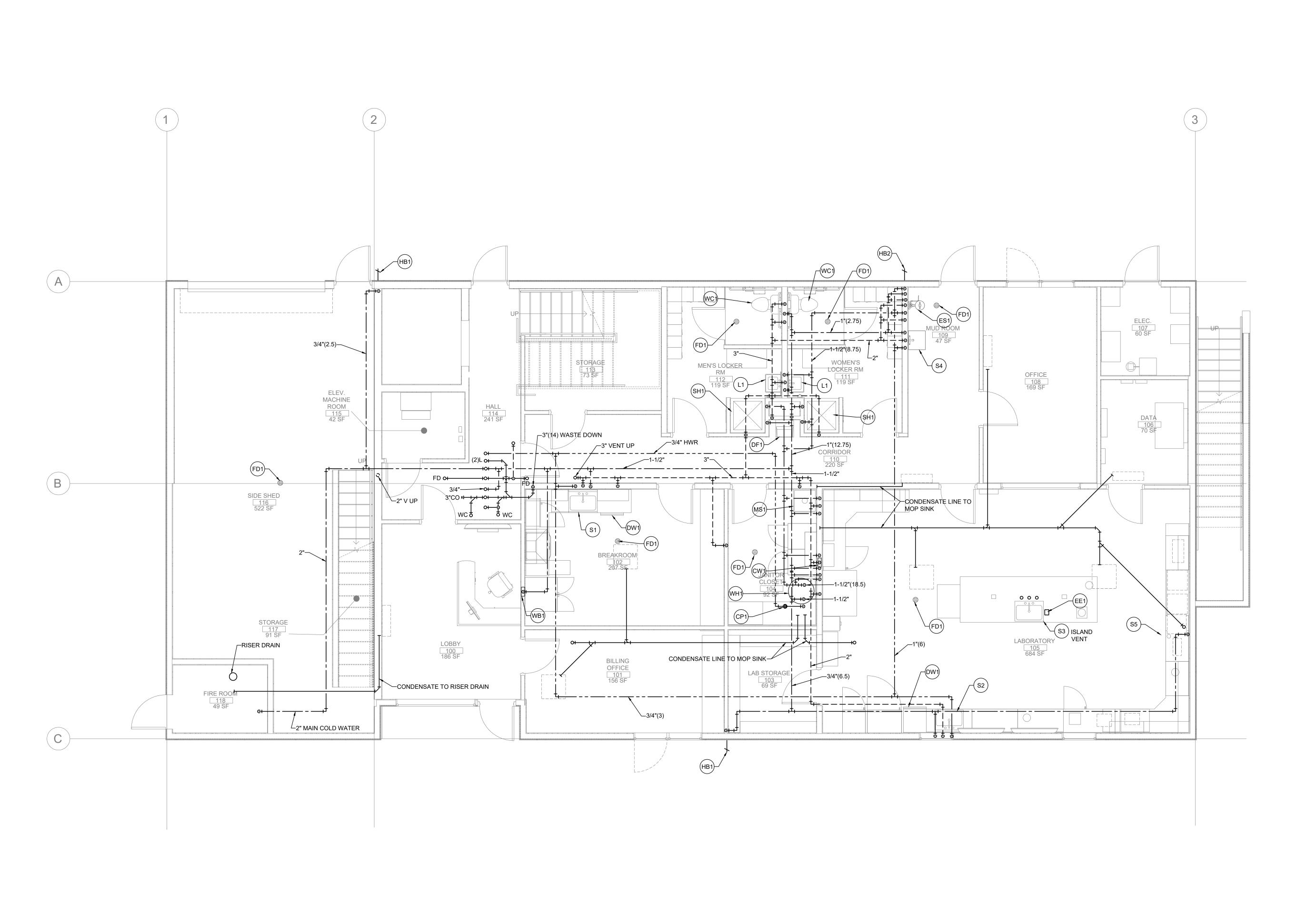
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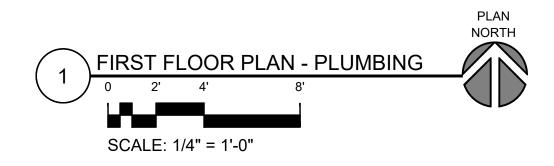


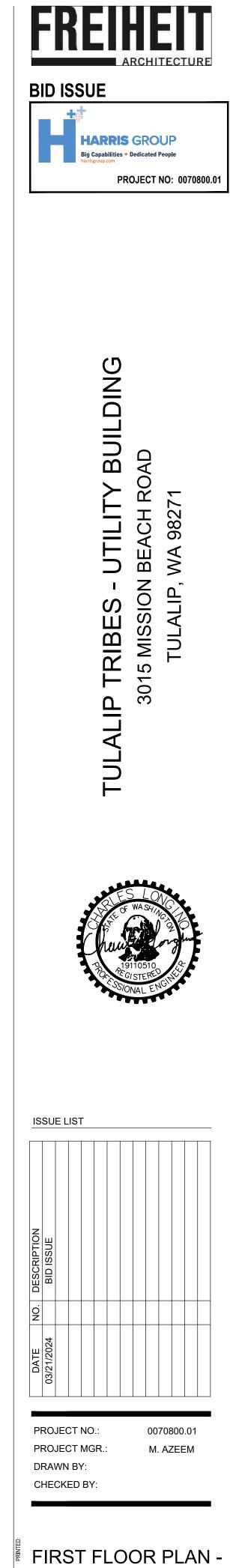




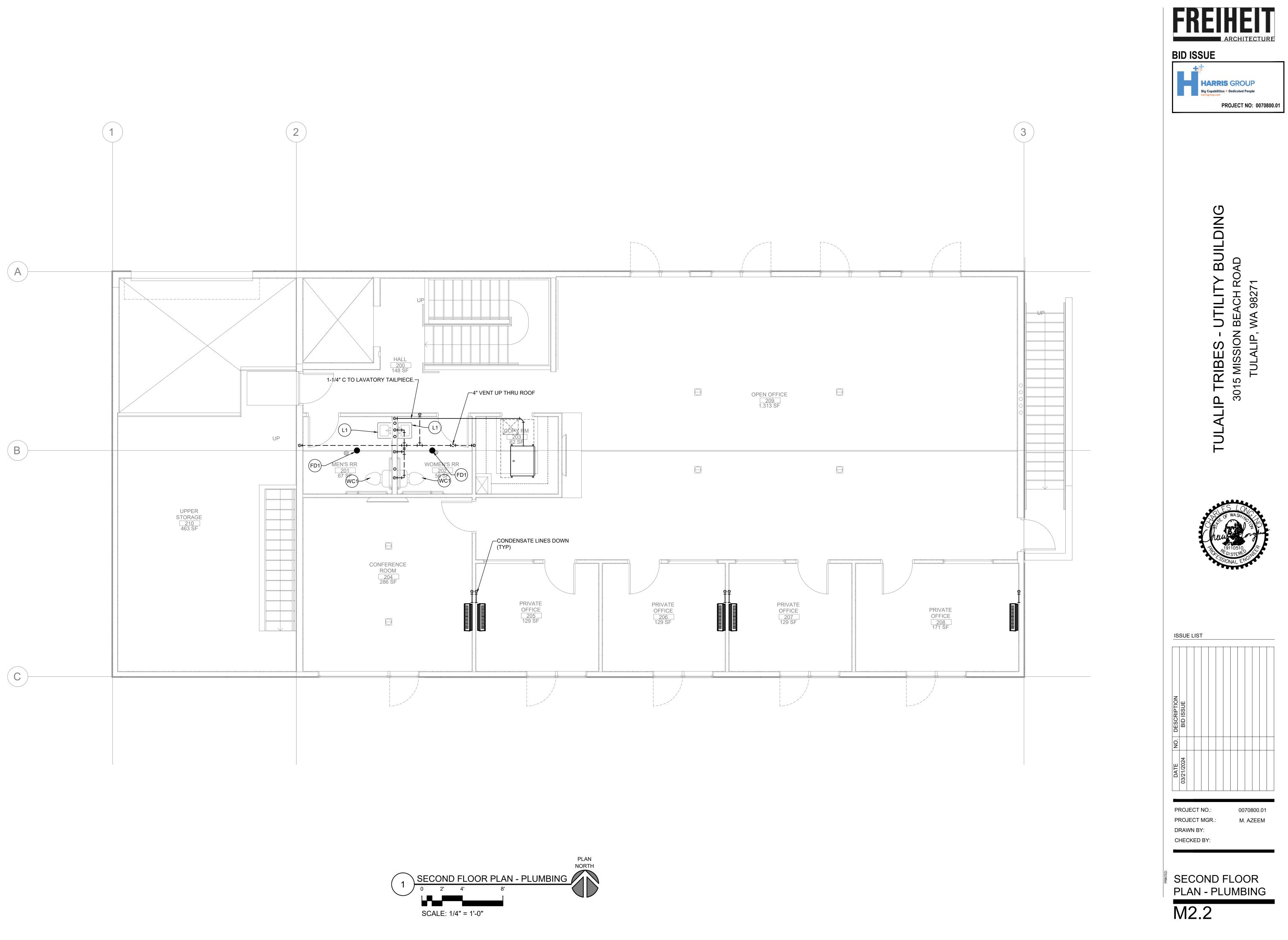
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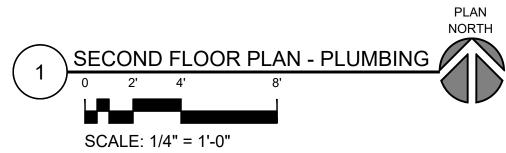


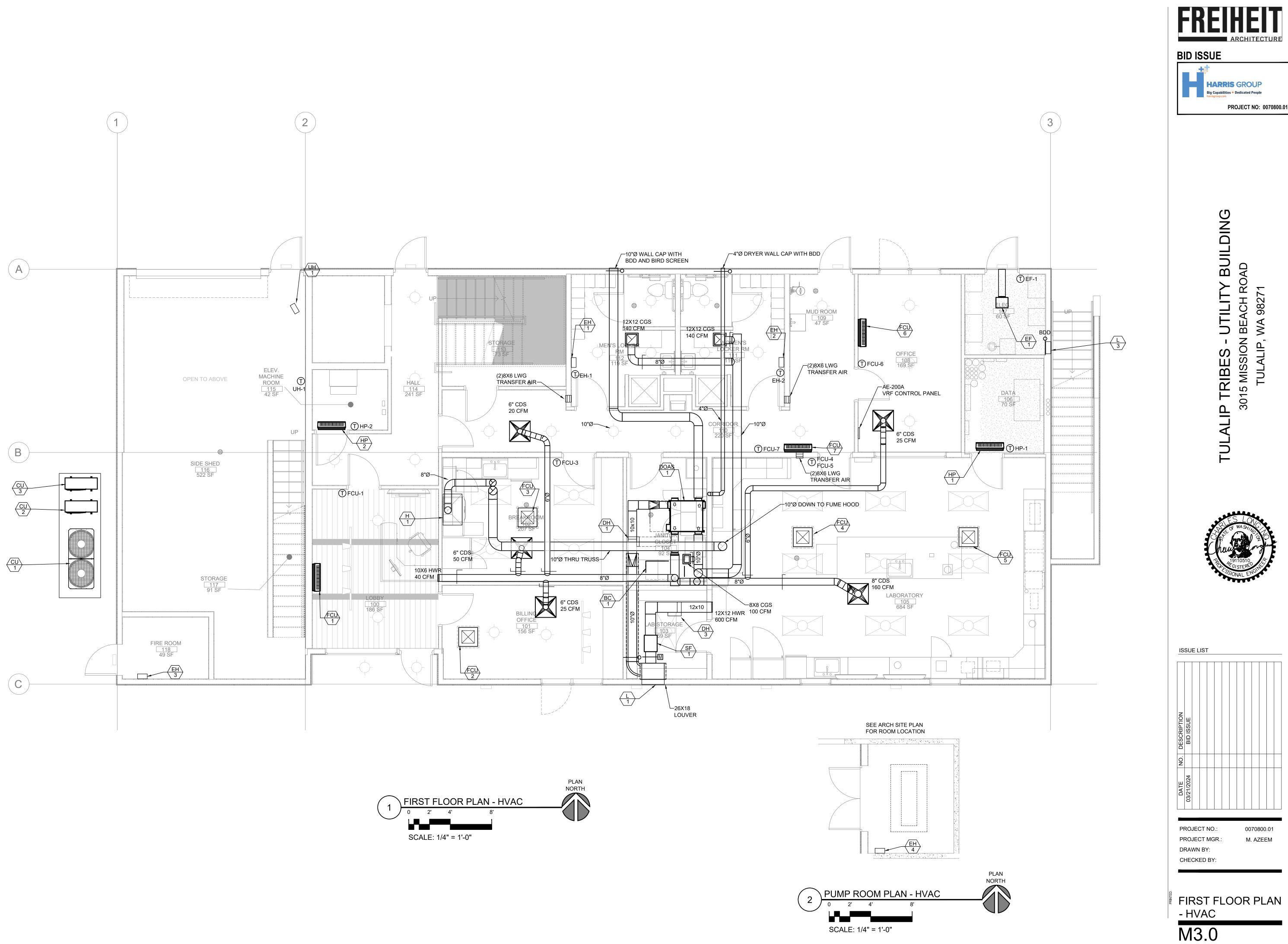


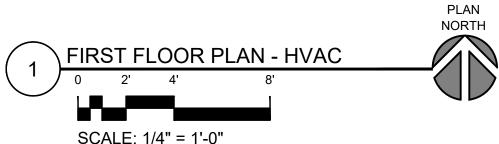


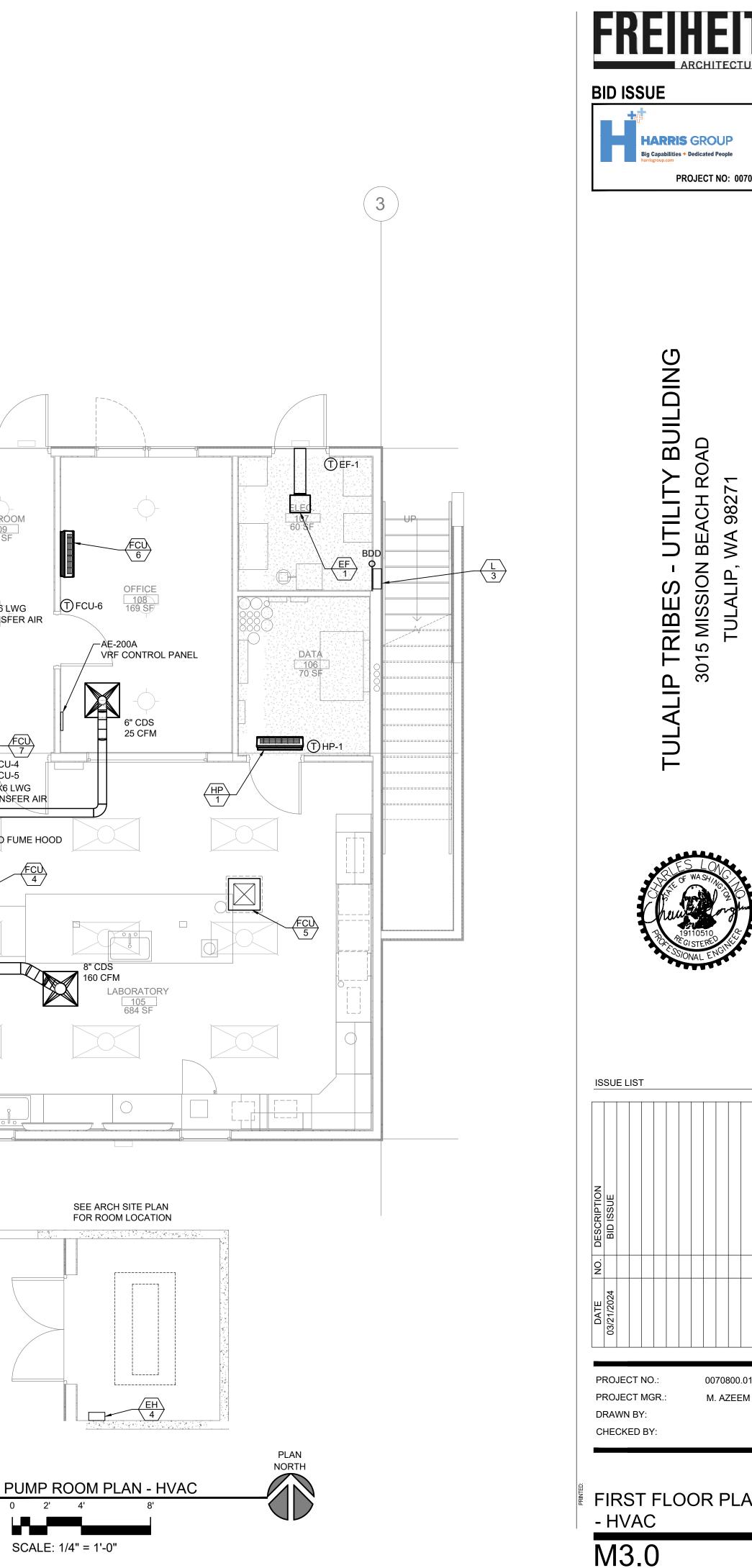
PLUMBING

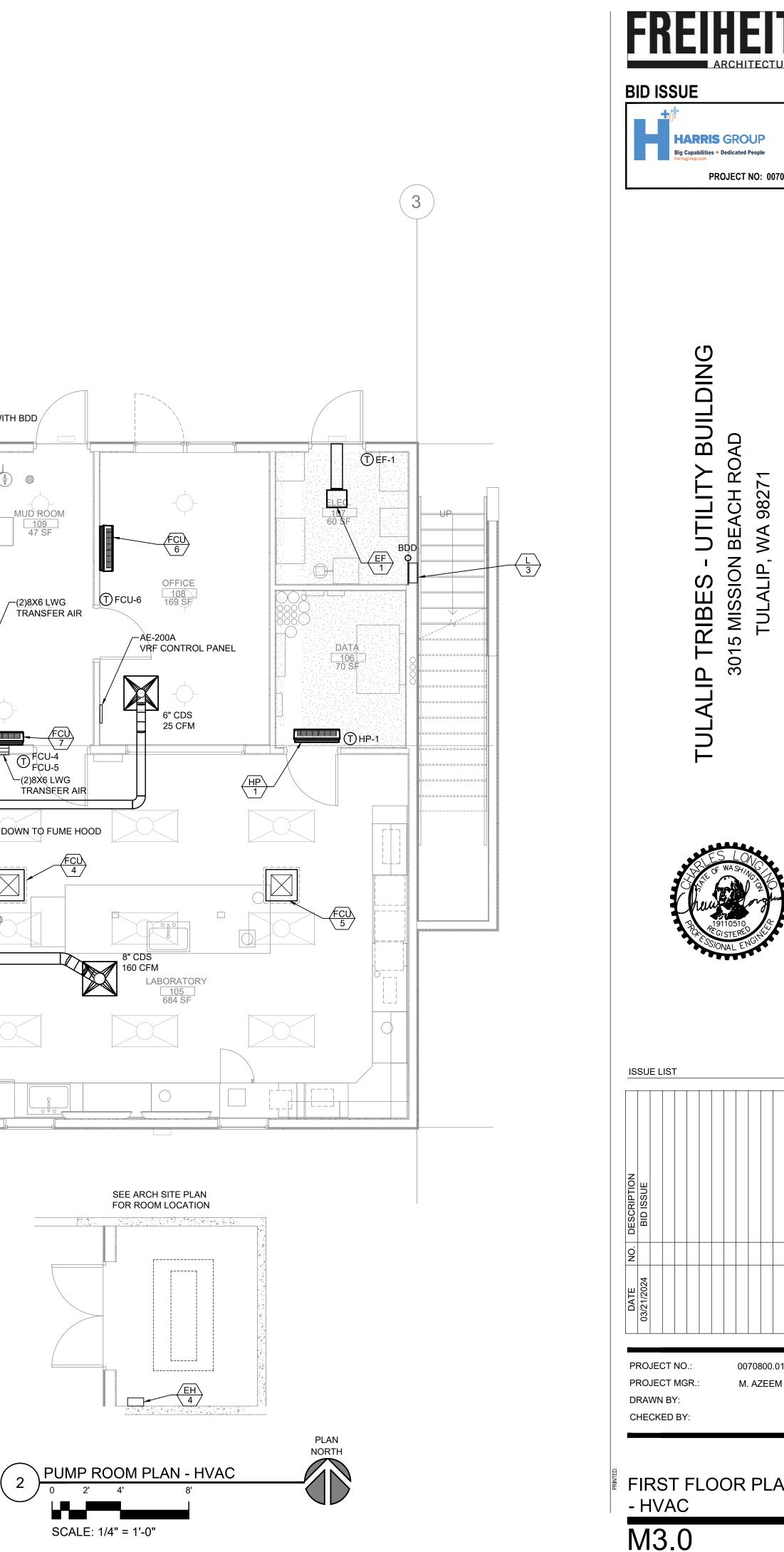


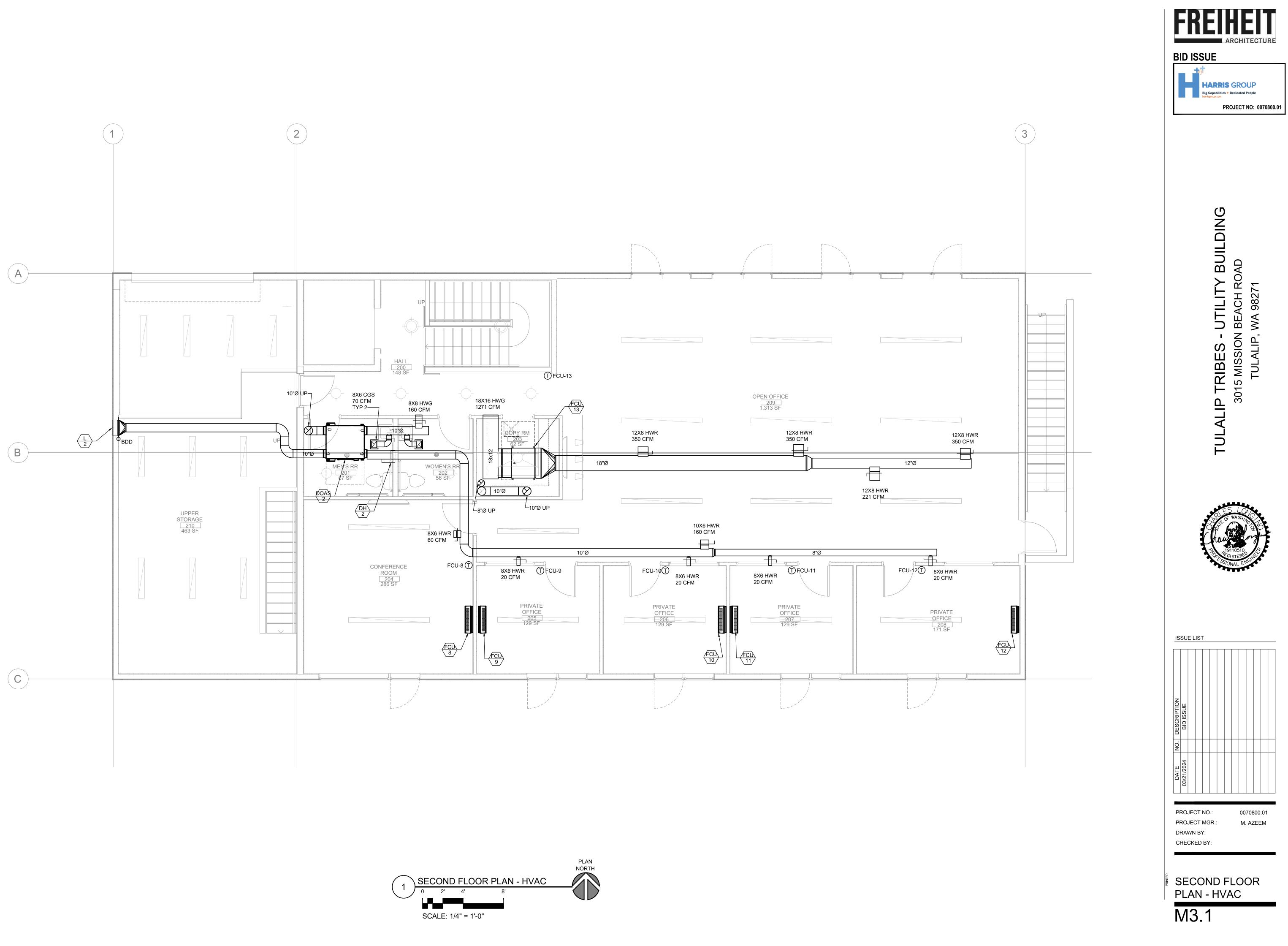




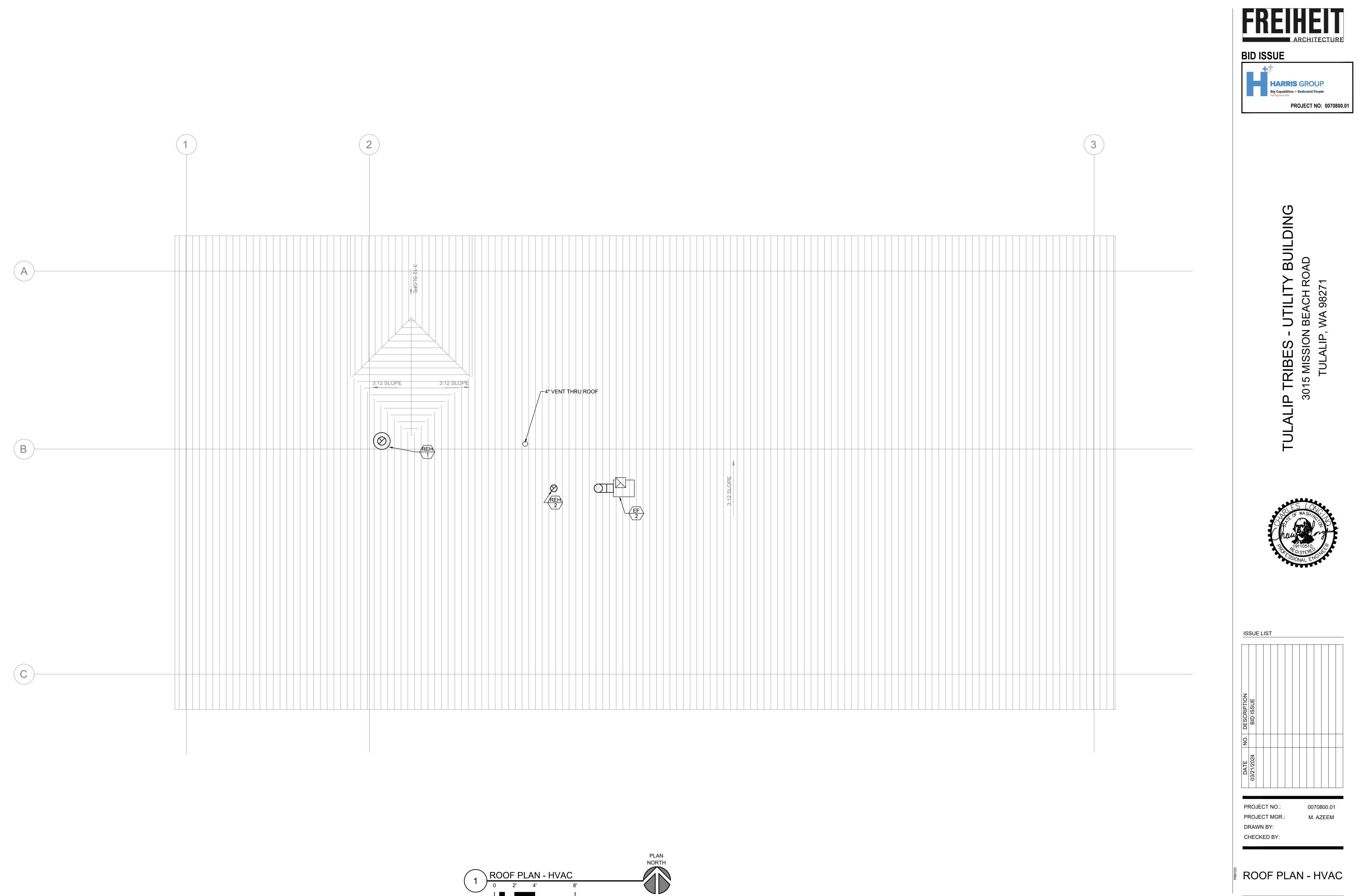


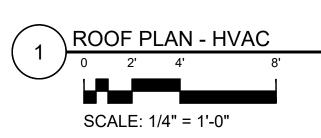






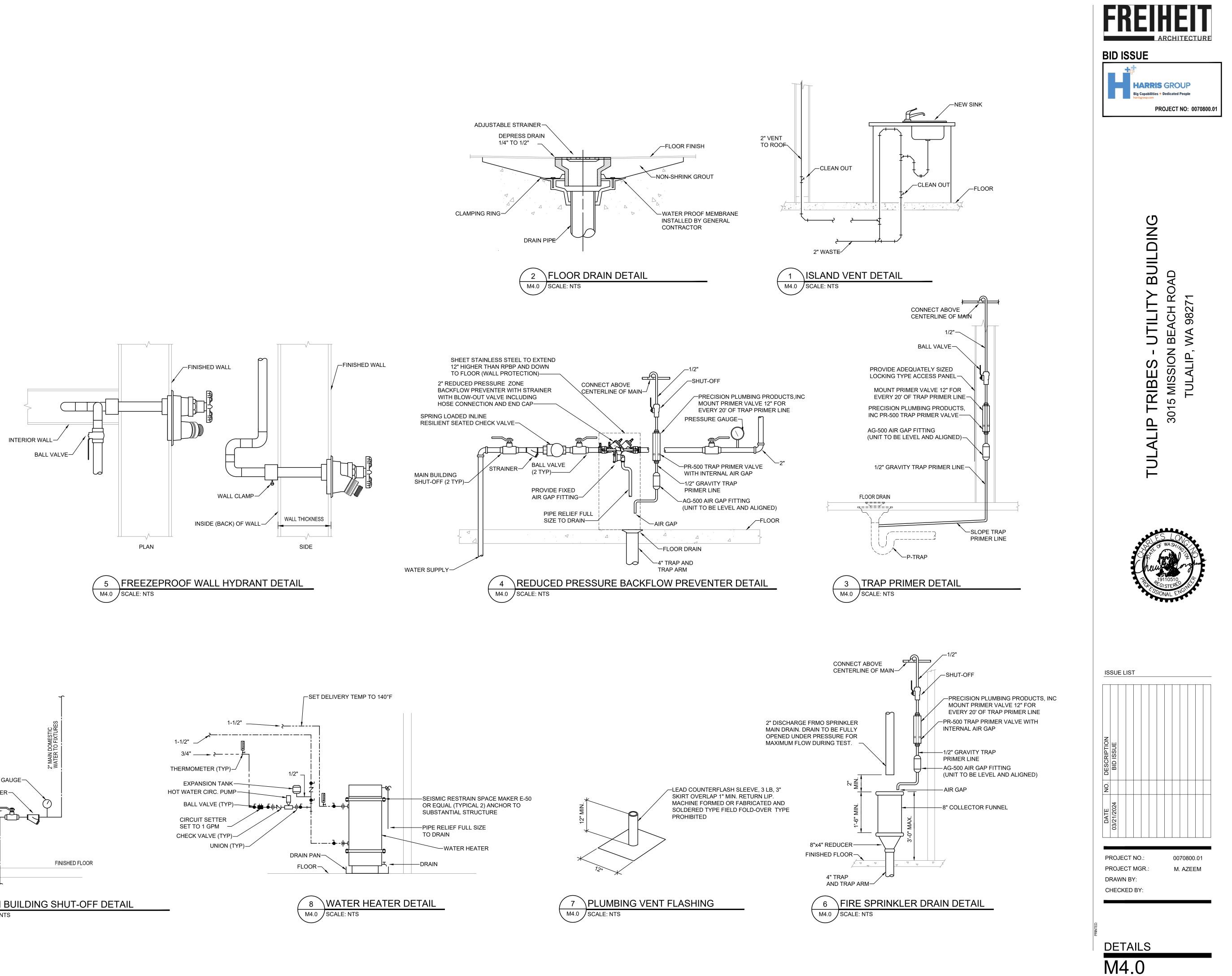


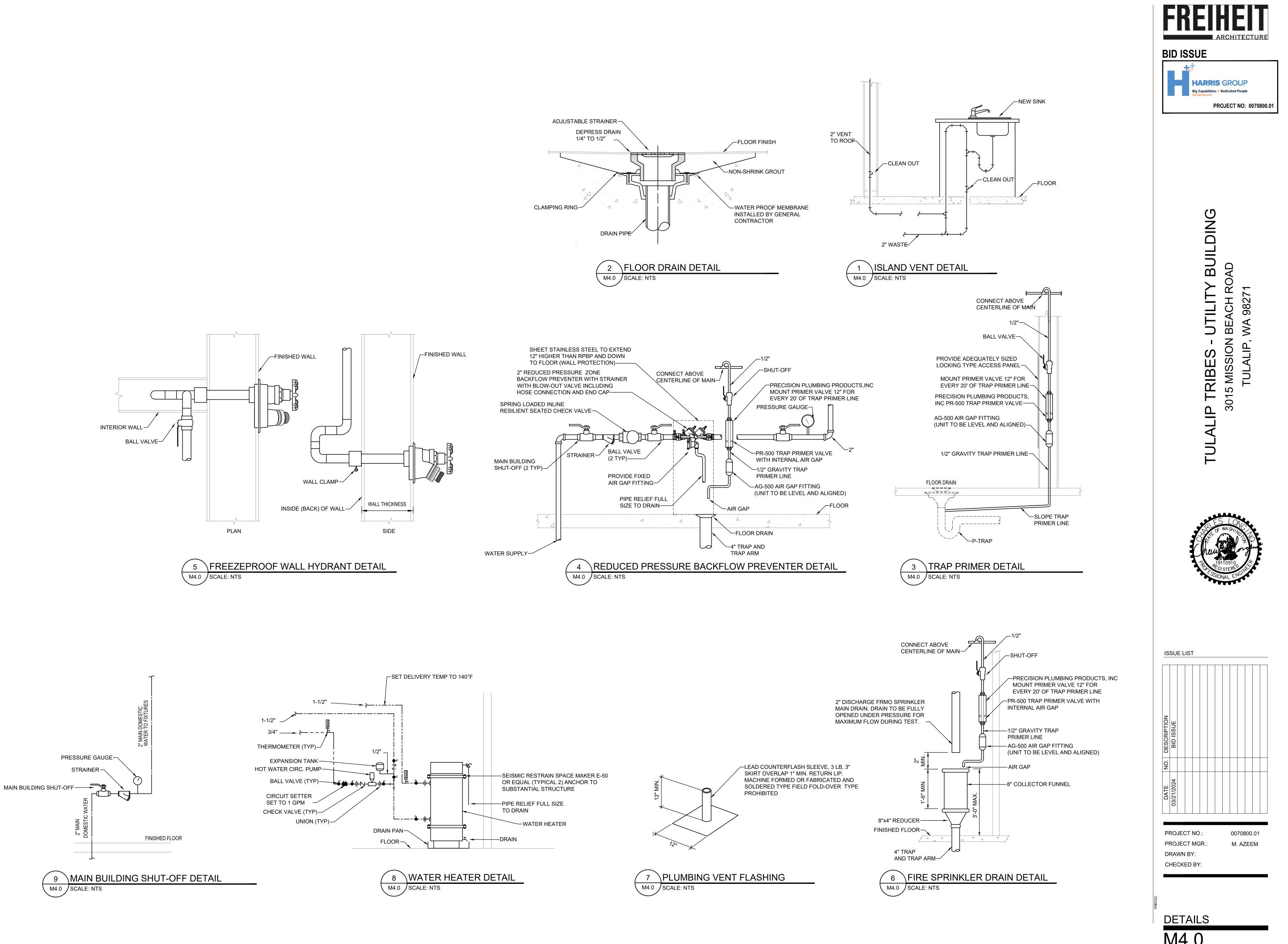


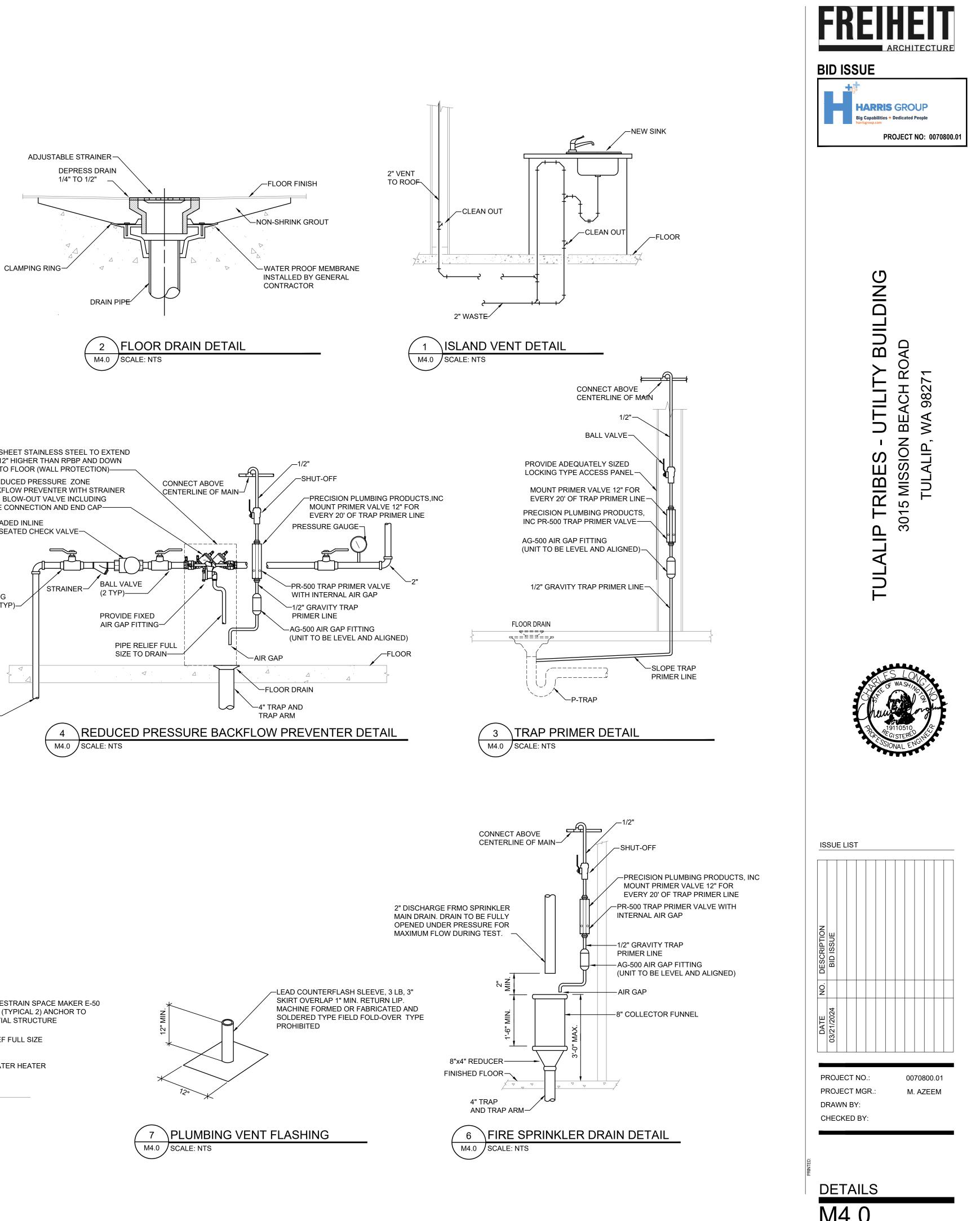


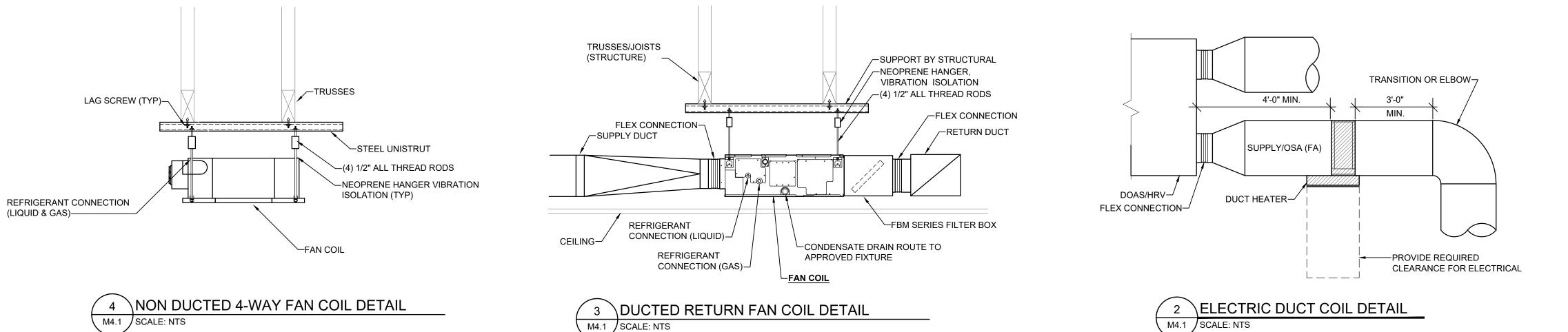
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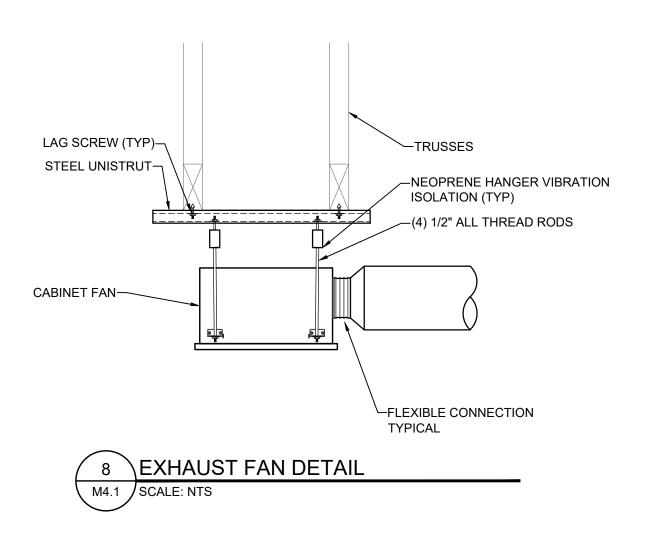
ROOF PLAN - HVAC

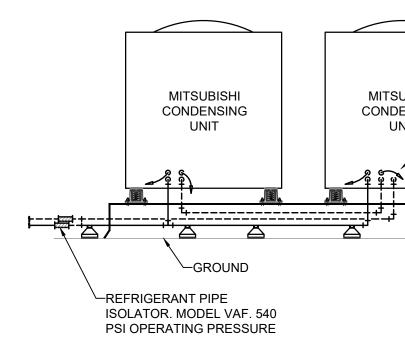






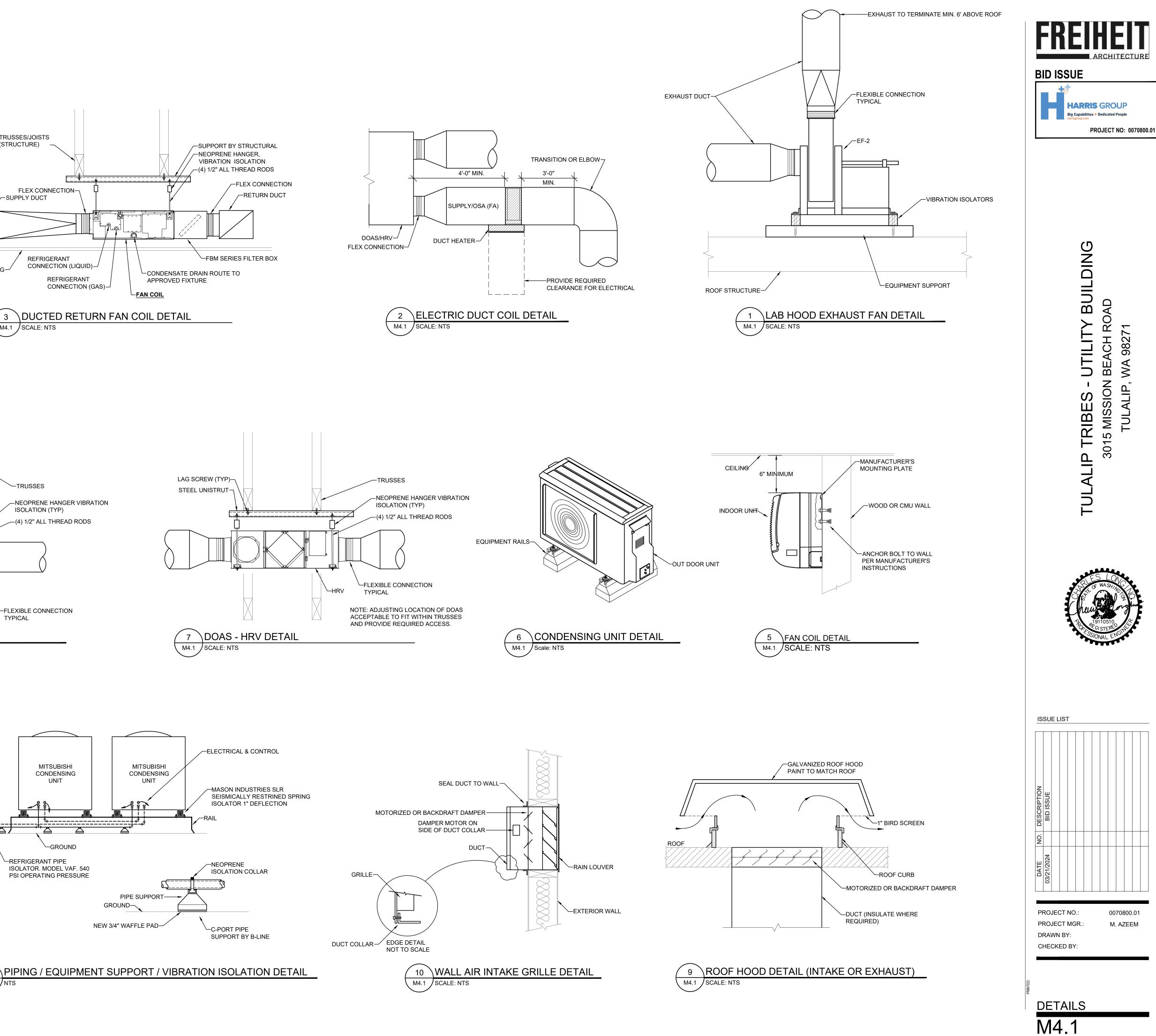






GROUND-

11 M4.1 NTS



ELECTRICAL SCOPE OF WORK

PROJECT IS DESIGNED TO UTILIZE EXISTING UTILITY TRANSFORMERS TO PROVIDE POWER TO THE NEW MAIN UTILITY BUILDING LOADS AND TO ELECTRICAL EQUIPMENT RELOCATED FROM THE EXISTING LAB BUILDING.

GENERAL NOTES

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE WORK REQUIRED PRIOR TO QUOTATION.
- 2. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUITS.
- 3. FIRE SEAL ALL FIRE RATED WALLS AND FLOOR PENETRATIONS PER CLIENT STANDARDS.
- 4. ALL EQUIPMENT SHALL BE ELECTRICALLY BONDED AND GROUNDED PER NEC SECTION 250.
- PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT.
- PROVIDE SPD (SURGE PROTECTION DEVICE) FOR MDP (MAIN DISTRIBUTION PANEL).
- 7. PROVIDE MAINTENANCE DISCONNECT FOR ALL MECHANICAL EQUIPMENT WITH PROPER CLEARANCES PER NEC SECTION 110.
- REFER TO SPECIFICATIONS SHEET OR SPECIFICATIONS BOOKLET FOR MATERIAL SPECIFICATIONS AND CONTRACTOR 8. MEANS AND METHOD. IF A DISCREPANCY IS NOTED BETWEEN PLANS AND SPECIFICATIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY DURING THE BID PROCESS
- REFER TO ARCHITECTURAL PLANS, NOTES, AND ASSOCIATED DETAILS FOR MOUNTING HEIGHTS OF ALL DEVICES 9. UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS EITHER DEPICTED ON ARCHITECTURAL DOCUMENTS SHALL BE USED FOR INSTALLATION OF ASSOCIATED ROUGH IN COMPONENTS AND FINAL MOUNTING HEIGHT OF DEVICE TO CENTERLINE FROM ABOVE FINISHED FLOOR.
- 10. CONTRACTOR SHALL COORDINATE EXACT CONNECTION LOCATION OF EQUIPMENT AND DEVICES WITH OTHER DISCIPLINES AND OWNER PRIOR TO ROUGH IN AND INSTALL.
- 11. MOUNT EXTERIOR ELECTRICAL EQUIPMENT AS INDICATED ON ELECTRICAL.
- 12. PROVIDE DEVICE/SWITCH LABELING AS INDICATED ON ELECTRICAL DETAIL.
- 13. ALL SAFETY SWITCHES OR DISCONNECTING DEVICES SERVING MECHANICAL EQUIPMENT SHALL BE NON-FUSED TYPE UNLESS OTHERWISE REQUIRED. MANUAL MOTOR CONTROLLERS SHALL BE FURNISHED WITH THERMAL OVERLOAD PROTECTION. THE DISCONNECTING MEANS SHALL BE PROVIDED WITH LOCKING PROVISIONS IF THE SAFETY SWITCH OR DISCONNECT IS NOT WITHIN THE LINE OF SIGHT OF THE MECHANICAL EQUIPMENT. THE FUSES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION IF NOT REFER TO NEC 430 SECTION MOTORS.
- 14. ALL BRANCH AND FEEDER CIRCUITS TO DEVICES AND EQUIPMENT SHALL BE PROVIDED WITH A DEDICATED EQUIPMENT GROUNDING CONDUCTOR. MINIMUM SIZE SHALL BE #12 AWG. DO NOT USE RACEWAYS FOR GROUNDING.
- 15. CIRCUIT BREAKERS SERVING EMERGENCY LIGHTING AND LIFE SAFETY EQUIPMENT SUCH AS FIRE ALARM SYSTEMS, SHALL BE FURNISHED WITH A HANDLE LOCKING DEVICE ON THE BREAKER HANDLE.
- 16. COORDINATE AND CONFIRM WITH VENDOR MAXIMUM ALLOWED FEEDER LENGTH BETWEEN VFD AND MOTOR. PROVIDE OUTPUT LINE REACTORS/FILTER REQUIRED IF FEEDER LENGTHS EXCEED MANUFACTURER ALLOWED LENGTHS.
- 17. ALL VFDS (VARIABLE FREQUENCY DRIVES) SHALL BE PROVIDED WITH VENDOR SUPPLIED CURRENT LIMITING FUSES AT INPUT TERMINALS TO ACHIEVE SHORT CIRCUIT RATING OF MINIMUM 65KAIC.
- 18. POWER CONNECTION FOR MODULAR FURNITURE.
- 19. COORDINATE WORK OF OTHER TRADES PRIOR TO START OF WORK.

DRAWING LIST							
SHEET DESIGNATION	SHEET TITLE						
E1.0	ELECTRICAL GENERAL NOTES						
E2.0	ELECTRICAL SINGLE-LINE DIAGRAM						
E3.0	ELECTRICAL FIRST FLOOR POWER PLAN						
E3.1	ELECTRICAL SECOND FLOOR POWER PLAN						
E3.2	ELECTRICAL ROOF POWER PLAN						
E3.3	ELECTRICAL ROOM ENLARGED PLAN						
E3.4	ELECTRICAL PUMP ROOM ENLARGED PLAN						
E4.0	ELECTRICAL FIRST FLOOR LIGHTING PLAN						
E4.1	ELECTRICAL SECOND FLOOR LIGHTING PLAN						
E5.0	ELECTRICAL PANEL SCHEDULES						
E5.1	EXISTING MCC SCHEDULE						

PANEL NO.

CKT. NO.-

TULALIP TRIBES UTILITY BUILDING 3015 MISSION BEACH RD, TULALIP, WA 98271

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LEGEND

AUTOMATIC TRANSFER SWITCH		
CIRCUIT BREAKER	PANEL NO.	
GENERATOR	XXXX-	
COMPRESSION TYPE BOLTED MECHANICAL CONNECTION / NEMA GROUNDING PAD	CKT. NO.	Т
EXOTHERMIC WELD / TERMINATION POINT		(\mathbf{X})
GROUND BUS BAR		OS
GROUNDING CONDUCTOR		MS
GROUND ROD		MS
GROUND TEST WELL		
JUNCTION/PULL BOX		
METER		•
SAFETY DISCONNECT SWITCH		(A)
SWITCH		КВ
MOTION SENSOR SWITCH	A TH	A

120V DOUBLE DUPLEX RECEPTACLE, 240V RECEPTACLE 2'x4', 4'x4' TROFFER LIGHTING FIXTUR WALL MOUNTED FLUORESCENT LIGHTIN WALL MOUNTED LIGHTING FIXTURE OCCUPANCY SENSOR 360° CEILING MOUNTED MOTION SENS CEILING MOUNTED MOTION SENSOR

CEILING MOUNTED LIGHTING FIXTURE

COAXIAL CONNECTION

AIPHONE VIDEO INTERCOM

ELECTRONIC KEYBOX



GFCI RECEPTACLE

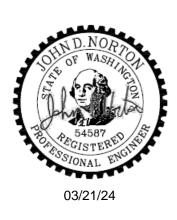
120V DUPLEX RECEPTACLE

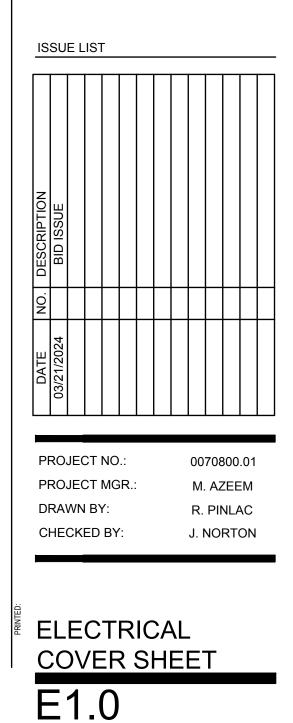
TRANSFORMER

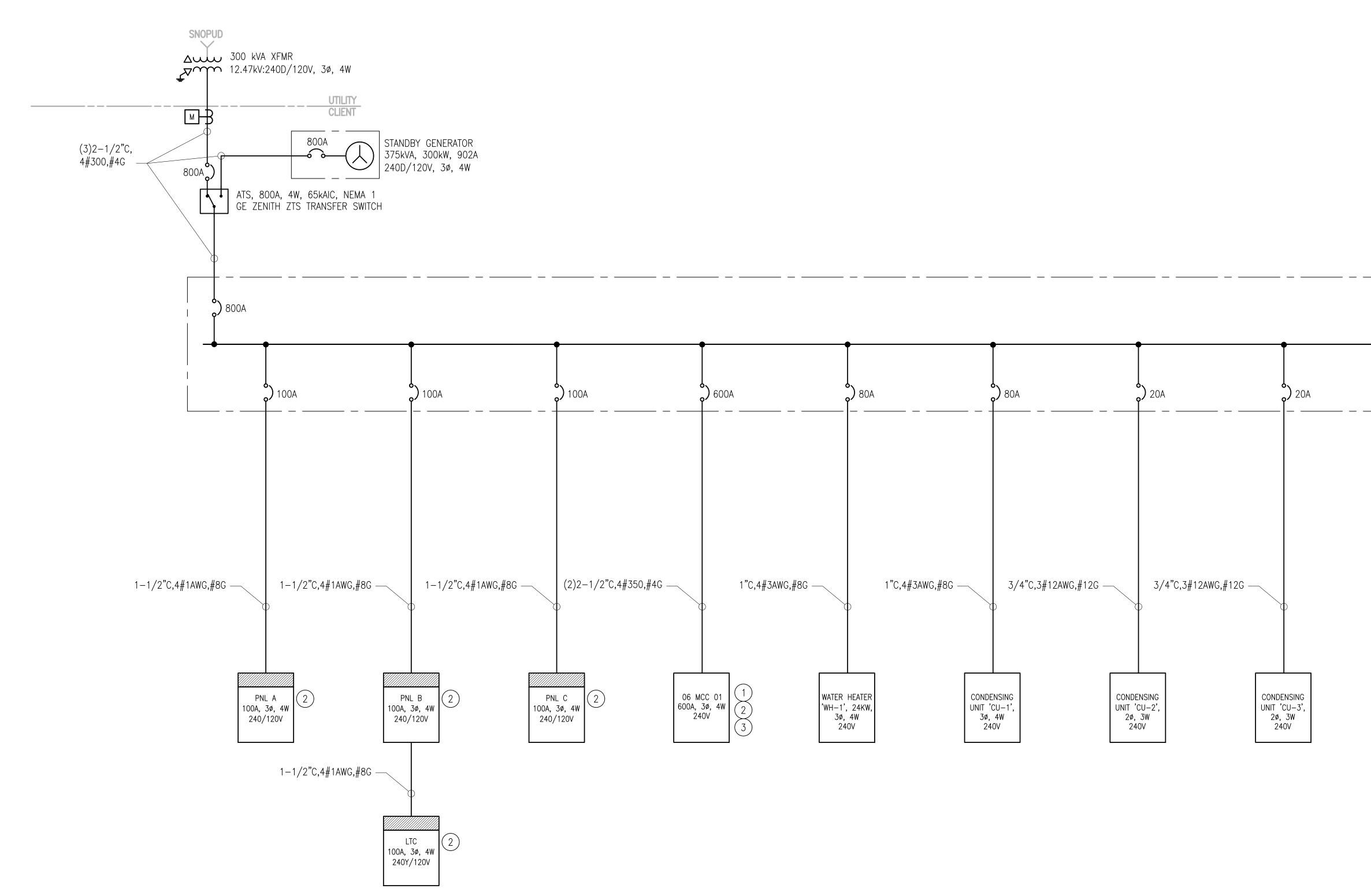
FLOOR MOUNTED	▼	SECURITY DATA/AIPHONE/TIMEIPS/KEYBOX
	W	DATA (ETHERNET) JACK + COUNT
JRE	V	FLOOR MOUNTED DATA (ETHERNET) JACK + COUNT
ING FIXTURE	\mathbf{D}	SECURITY CAMERA
		BADGE READER
		ALARM ARMING STATION
SOR	DC	DOOR CONTACT
	WAP	WIRELESS ACCESS POINT









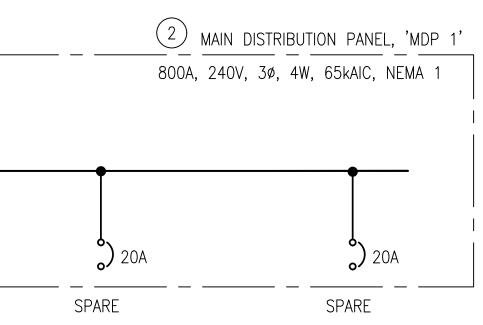


GENERAL NOTES

- 1. ALL INSULATION TYPE THHN
- 2. REFER TO SHEET E3.3 FOR NEW ELECTRICAL EQUIPMENT INFORMATION.

KEYED NOTES

- (1)RELOCATE EXISTING EQUIPMENT FROM LAB TO MAIN UTILITY BUILDING.
- (2)EQUIPMENT SHALL BE PERMANENTLY MARKED WITH LABEL "CAUTION: B PHASE HAS 208 VOLTS TO GROUND". ALL PHASE B CONDUCTORS AND BUSBARS ON THIS SYSTEM SHALL BE DURABLY AND PERMANENTLY MARKED BY AN OUTER ORANGE FINISH.
- PRESSURE WASHER EQUIPMENT FED FROM EXISTING MCC TO BE LOCATED FROM LAB TO NEW PRESSURE WASHER (3)ROOM. FOR LOCATION REF TO DWG A2.00.









BUILDING

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UTILITY F

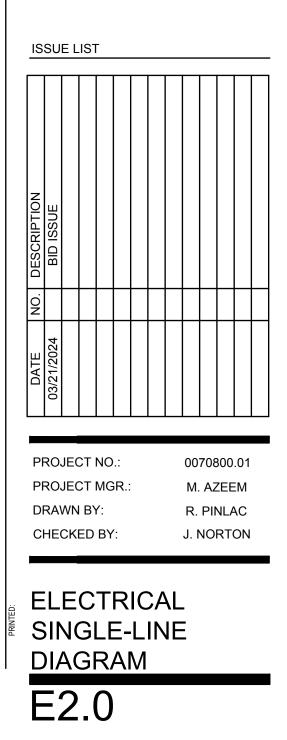
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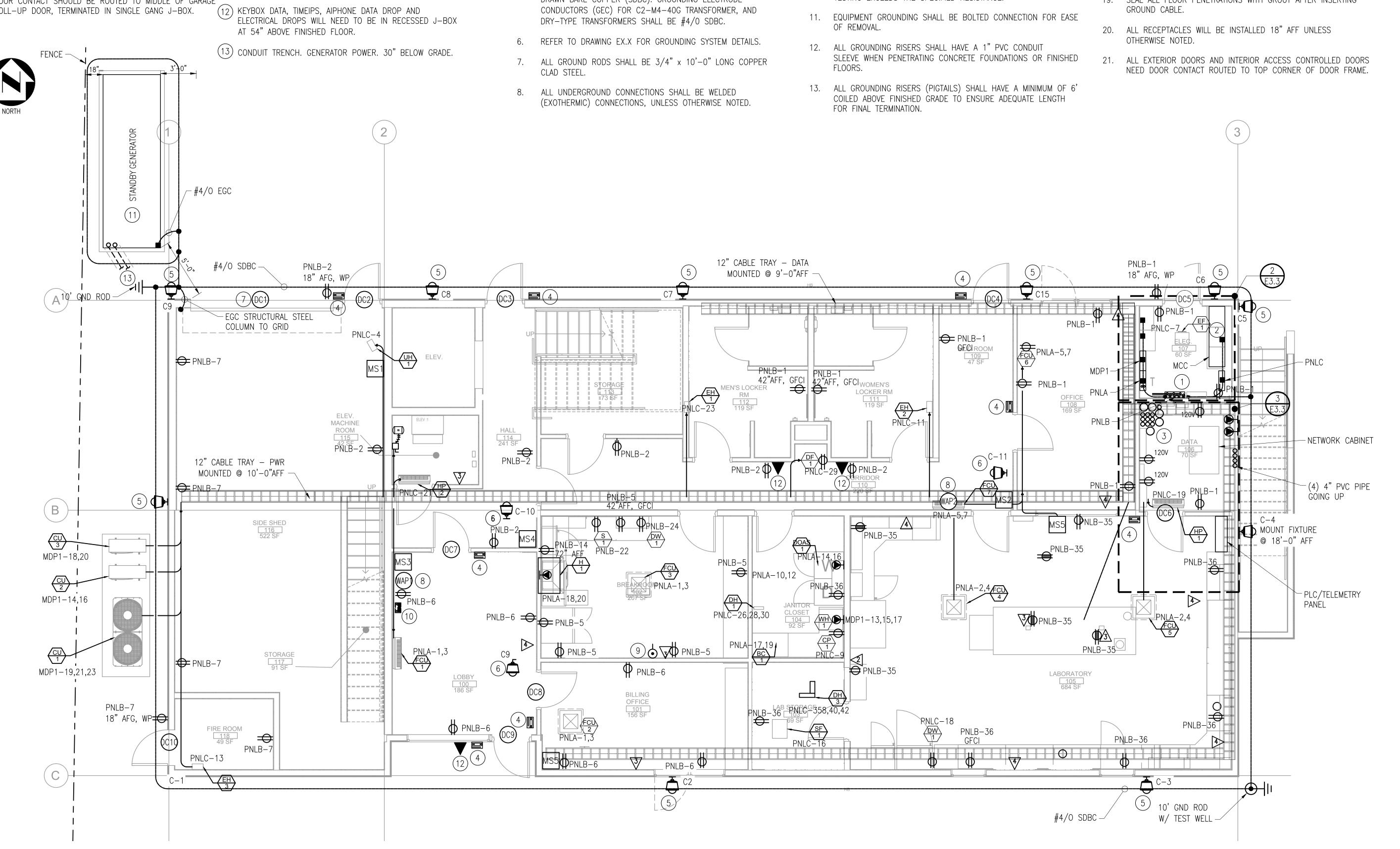


REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

KEYED NOTES

- (1) PROVIDE #4/0 TAP FROM GROUND GRID TO EQUIPMENT GROUND BUS BAR.
- (2) PROVIDE #4/0 GROUND WITHIN HOUSEKEEPING PAD.
- (3) provide (7) 4" and (2) 2" conduit marked for data CABLING FROM THE DATA ROOM TO VARIOUS LOCATIONS.
- (4) PROVIDE ACCESS CONTROL BADGE READER AT 48" AFF.
- (5) PROVIDE EXTERIOR CAMERA AT 14' AFG ROUTED WITH 1" CONDUIT INTO RECESSED 2-GANG J-BOX.
- (6) PROVIDE CEILING MOUNTED INTERIOR CAMERA WITH RECESSED 1-GANG J-BOX.
- (7) DOOR CONTACT SHOULD BE ROUTED TO MIDDLE OF GARAGE ROLL-UP DOOR, TERMINATED IN SINGLE GANG J-BOX.

- (8) WIRELESS ACCESS POINT WILL NEED DATA DROP ROUTED TO J-BOX ON WALL -6" FROM FINISHED CEILING. BUT NO HIGHER THAN 12' AFF.
- (9) THE DATA/COAX/ELECTRICAL OUTLETS SHOULD BE INSTALLED ON WALL +72" AFF.
- (10) ALARM ARMING STATION CABLES SHOULD BE ROUTED TO SINGLE GANG J-BOX AT +54" AFF.
- (11) PROVIDE 300kW, 240D/120V, 3PH, 4W STANDBY GENERATOR. GENERAC CAT. SD300. MAINTAIN MINIMUM CLEARANCES OF 36" IN FRONT, 18" TO FENCE, AND 5" TO DOOR OR WINDOW. PROVIDE 183" X 66" HOUSEKEEPING PAD.



FIRST FLOOR PLAN

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

1

E3.0

GENERAL NOTES

- CONDUIT ROUTING IS DIAGRAMMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL CODES.
- CONDUIT ROUTING TO RECEPTACLES IS NOT SHOWN. CONTRACTOR SHALL USE BEST ROUTING PRACTICES TO AVOID OBSTRUCTIONS AND INTERFERENCE WITH OTHER EQUIPMENT.
- CONDUCTOR AND CONDUIT SIZING SHALL BE AS PER NEC.
- EQUIPMENT LOCATIONS AND ARRANGEMENT ARE SCHEMATIC. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER FOR DETAILED CONNECTION REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.
- GROUND GRID CONDUCTORS SHALL BE #4/0 SOFT DRAWN BARE COPPER (SDBC). BONDING JUMPERS SHALL BE #2/0 SOFT DRAWN BARE COPPER (SDBC). GROUNDING ELECTRODE

- ALL STEEL COLUMN GROUNDING SHALL BE WELDED (EXOTHERMIC). 9 AT A MINIMUM, ALTERNATING BUILDING COLUMNS SHALL BE GROUNDED TO MAIN GROUND GRID. 10. GROUND SYSTEMS SHALL NOT HAVE MORE THAN THE FOLLOWING GROUND RESISTANCE: EQUIPMENT RATED 500KVA AND LESS SHALL HAVE <10 OHMS. EQUIPMENT RATED 500 TO 1000KVA SHALL HAVE <5 OHMS. EQUIPMENT RATED MORE THAN 1000KVA SHALL HAVE <2 OHMS. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC EQUIPMENT <2 OHMS SUBSTATIONS, SUBSTATION MANHOLES, AND PAD-MOUNTED SWITCHING EQUIPMENT <1 OHMS. MANHOLE GROUNDS <10 OHMS. TO ACHIEVE THIS RESISTANCE, CONTRACTOR SHALL TEST AND PROVIDE TESTING REPORTS. CONTRACTOR SHALL CONTACT POS ENGINEER FOR HELP WITH RESOLUTION IF RESISTANCE DURING TESTING EXCEEDS THE SPECIFIED RESISTANCE.

14. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), PORT OF SEATTLE, AND ANY STATE AND LOCAL CODES.

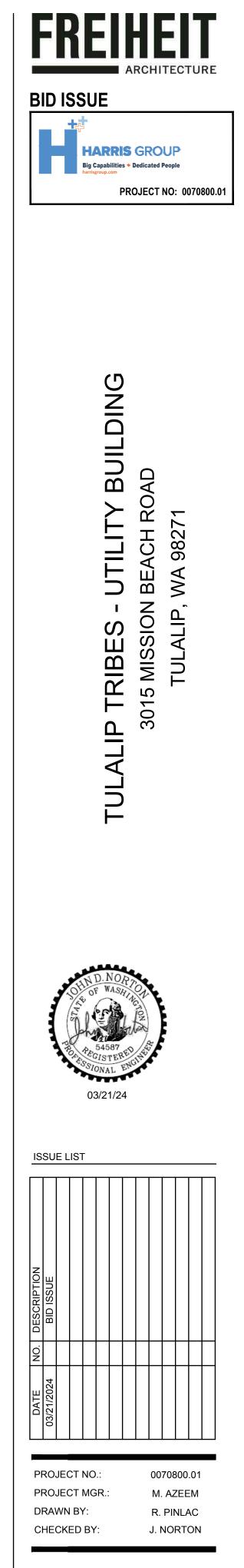
15. GROUNDING RING AND GROUND RODS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AT THE TIME OF INSTALLATION.

16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO ROUGH IN.

17. CONTRACTOR SHALL PRIME AND REPAINT ALL STRUCTURAL SURFACES THAT HAVE BEEN DRILLED OR WELDED.

18. INSTALLATION OF THE GROUNDING SYSTEM SHALL BE COORDINATED WITH THE INSTALLATION WORK OF ALL DISCIPLINES IN THE PROJECT. UTILIZE THE EQUIPMENT MANUFACTURER'S DRAWINGS TO DETERMINE THE GROUND CONNECTION LOCATIONS.

19. SEAL ALL FLOOR PENETRATIONS WITH GROUT AFTER INSERTING



ELECTRICAL **FIRST FLOOR** POWER PLAN E3.0

REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

KEYED NOTES

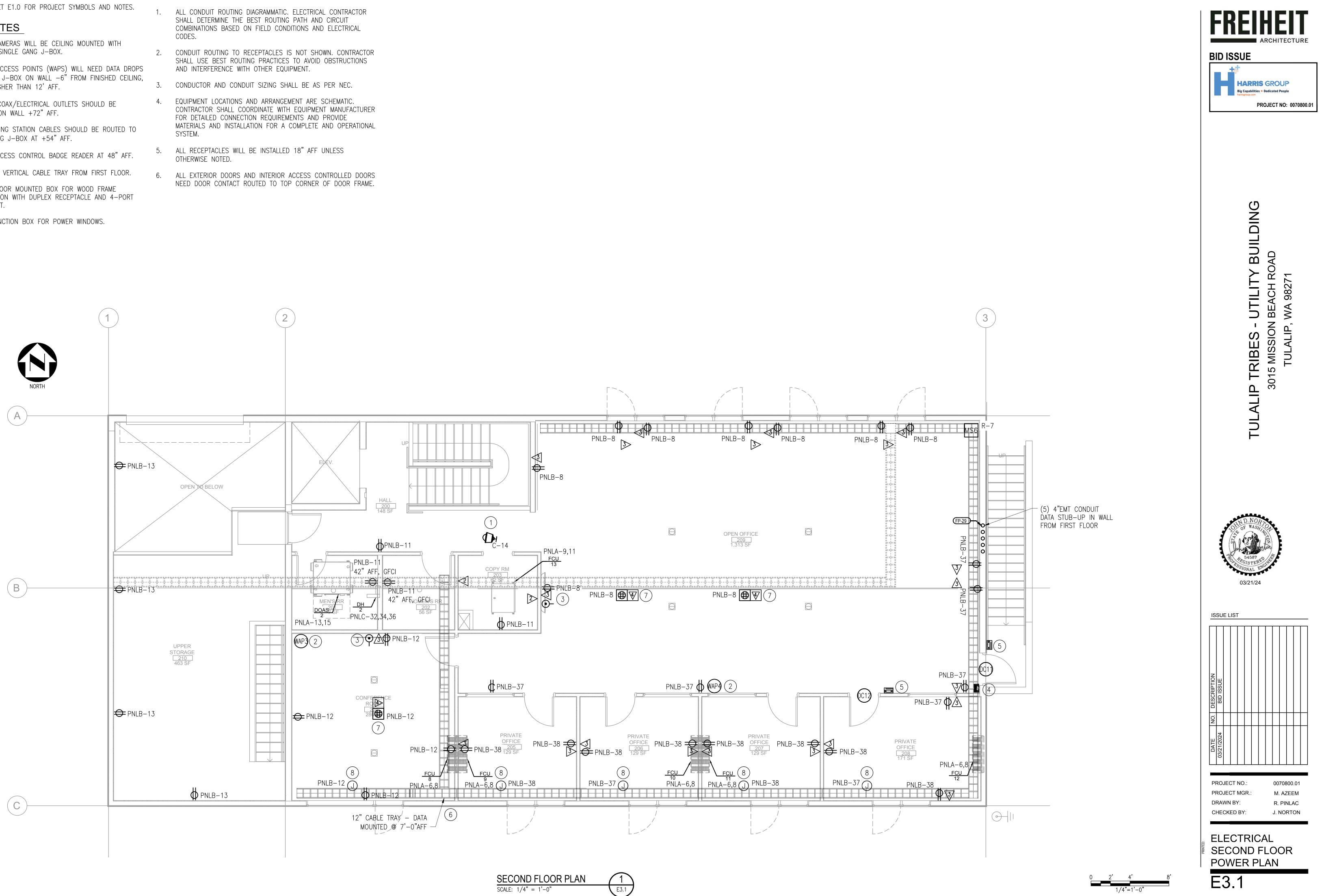
- (1) INTERIOR CAMERAS WILL BE CEILING MOUNTED WITH RECESSED SINGLE GANG J-BOX.
- (2) WIRELESS ACCESS POINTS (WAPS) WILL NEED DATA DROPS ROUTED TO J-BOX ON WALL -6" FROM FINISHED CEILING, BUT NO HIGHER THAN 12' AFF.
- (3) THE DATA/COAX/ELECTRICAL OUTLETS SHOULD BE INSTALLED ON WALL +72" AFF.
- (4) ALARM ARMING STATION CABLES SHOULD BE ROUTED TO SINGLE GANG J-BOX AT +54" AFF.
- (5) PROVIDE ACCESS CONTROL BADGE READER AT 48" AFF.
- (6) PROVIDE 6" VERTICAL CABLE TRAY FROM FIRST FLOOR.

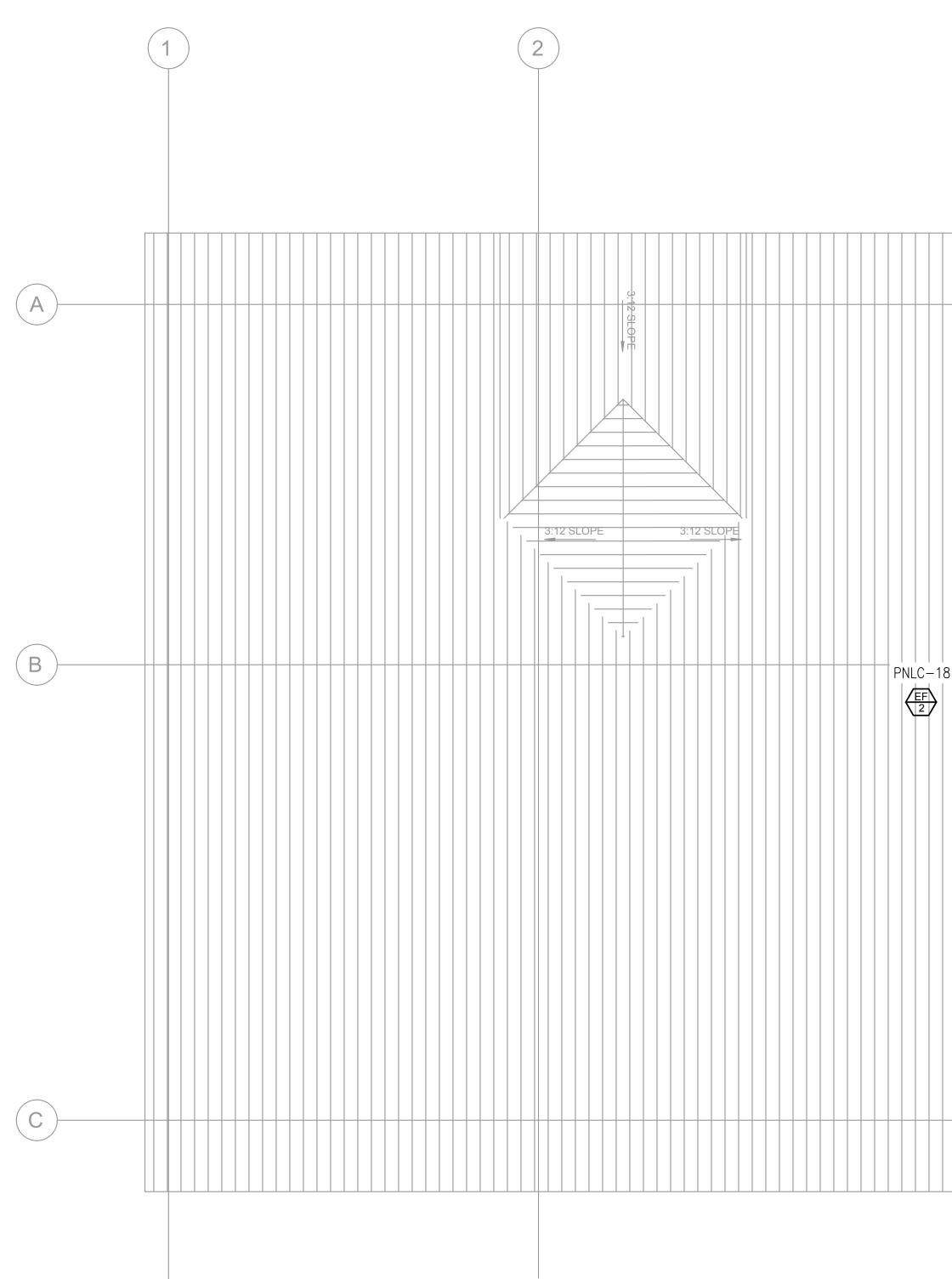
PROVIDE FLOOR MOUNTED BOX FOR WOOD FRAME CONSTRUCTION WITH DUPLEX RECEPTACLE AND 4-PORT DATA OUTLET.

INSTALL JUNCTION BOX FOR POWER WINDOWS.

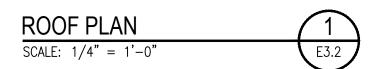
GENERAL NOTES

- SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL CODES.
- SHALL USE BEST ROUTING PRACTICES TO AVOID OBSTRUCTIONS AND INTERFERENCE WITH OTHER EQUIPMENT.
- EQUIPMENT LOCATIONS AND ARRANGEMENT ARE SCHEMATIC. FOR DETAILED CONNECTION REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.
- OTHERWISE NOTED.
- ALL EXTERIOR DOORS AND INTERIOR ACCESS CONTROLLED DOORS NEED DOOR CONTACT ROUTED TO TOP CORNER OF DOOR FRAME.





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REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

GENERAL NOTES

- 1. ALL CONDUIT ROUTING IS NOT SHOWN. ELECTRICAL CONTRACTOR SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL CODES.
- 2. CONDUCTOR AND CONDUIT SIZING SHALL BE AS PER NEC.
- 3. EQUIPMENT LOCATIONS AND ARRANGEMENT ARE SCHEMATIC. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER FOR DETAILED CONNECTION REQUIREMENTS AND PROVIDE MATERIALS AND INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.

KEYED NOTES

1 NOT USED.

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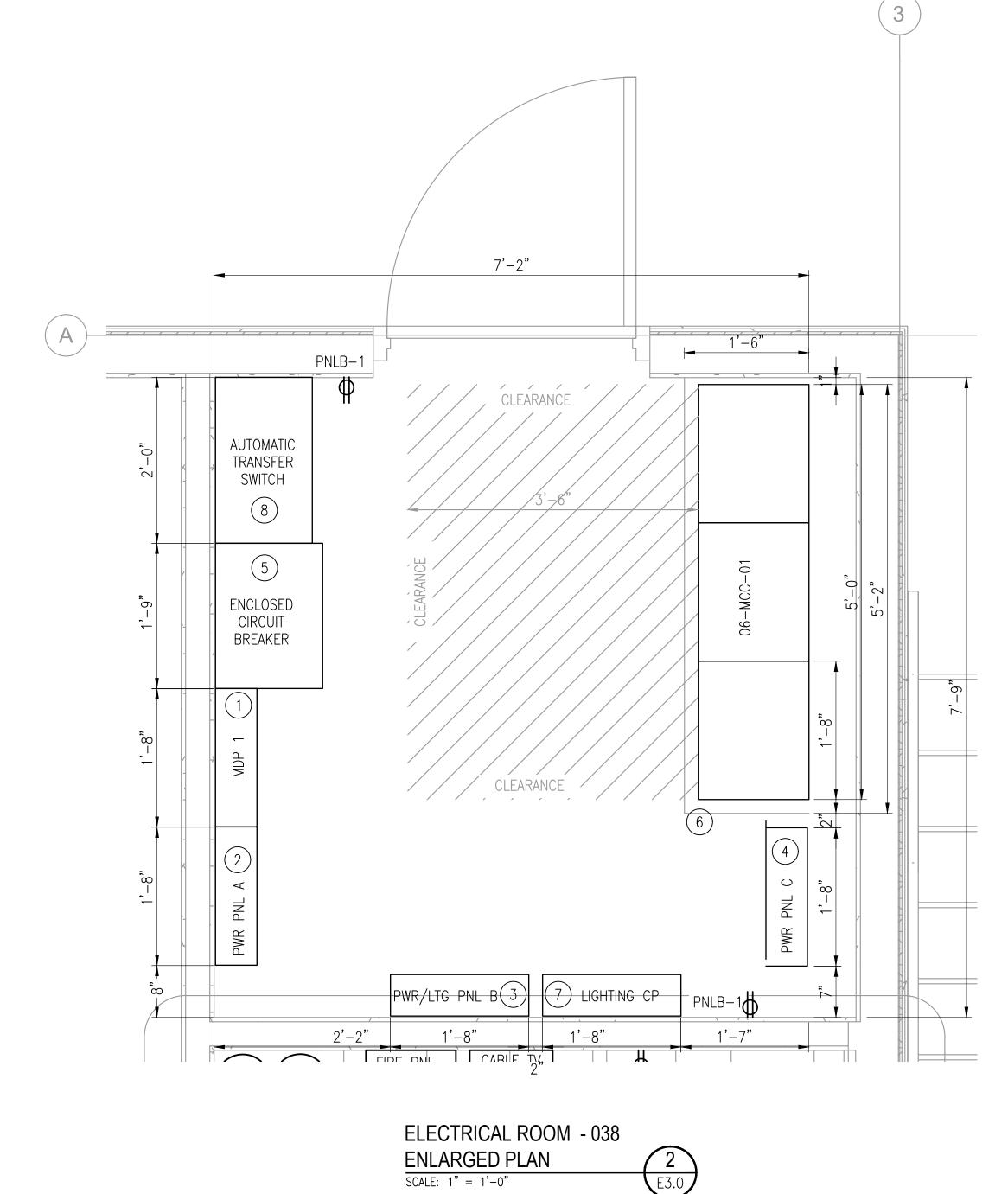


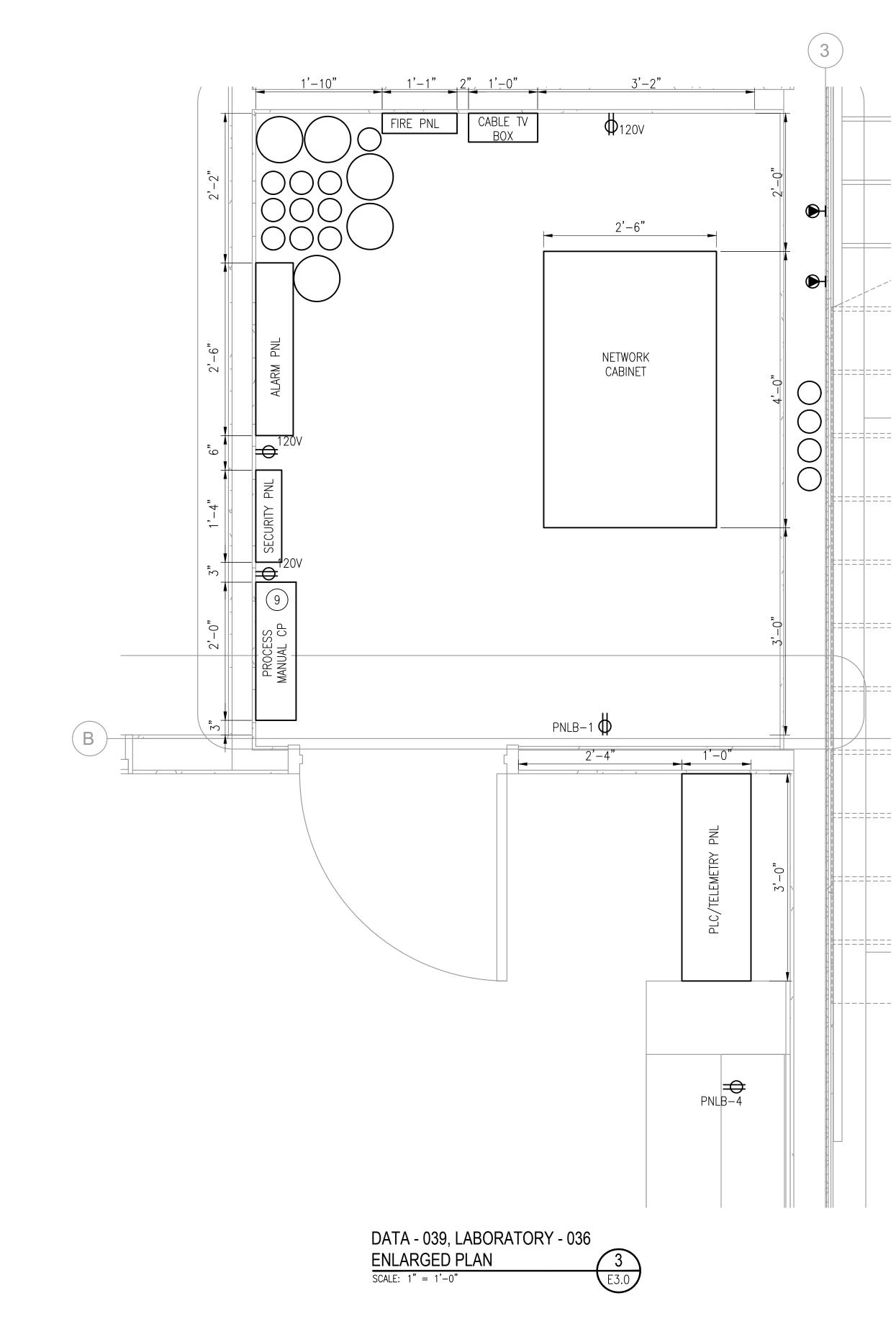
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 ISSUE LIST

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REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION. REARRANGE EQUIPMENT IN SPACE AS REQUIRED.

CONSTRUCTION NOTES

- 1) MAIN DISTRIBUTION PANEL (MDP 1). 800A, 240D/120V, 3Ø, 4W, 65kAIC, NEMA 1, EATON PART NO. PRL4X OR APPROVED EQUAL.
- 2 PWR PANELBOARD (PNL A). 100A, 3Ø 240D/120V, 4W, 65KAIC, NEMA 1, EATON PART NO. PRL1X OR APPROVED EQUAL.
- 3 PWR/LTG PANELBOARD (PNL B). 100A, 3Ø 240D/120V, 4W, 65KAIC, NEMA 1, EATON PART NO. PRL1X OR APPROVED EQUAL.
- 4 PWR PANELBOARD (PNL C). 100A, 3Ø 240D/120V, 4W, 65KAIC, NEMA 1, EATON PART NO. PRL1X OR APPROVED EQUAL.
- 5 PROVIDE 800A MOLDED CASE CIRCUIT BREAKER ON SOURCE SIDE OF ATS. EATON NEMA 1 ENCLOSED CIRCUIT BREAKER CAT. NO. SNDN1200 OR EQUAL.
- 6 PROVIDE HOUSEKEEPING PAD (62"X30"X4") AND RELOCATE EXISTING 3-SECTION MCC FROM LAB TO MAIN UTILITY BUILDING.
- 7 LTG CTRL PANELBOARD (LCP). 100A, 3Ø 208Y/120V, 3Ø, 4W, 22kAIC, NEMA 1, POW-R-COMMAND, EATON PART NO. PRC750EECD-120 OR APPROVED EQUAL.
- 8 PROVIDE AUTOMATIC TRANSFER SWITCH, 800A, 4W, 65KAIC, NEMA 1, GE ZENITH ZTS TRANSFER SWITCH.
- 9 RELOCATE EXISTING PROCESS MANUAL CONTROL PANEL FROM LAB BUILDING TO DATA ROOM 039.

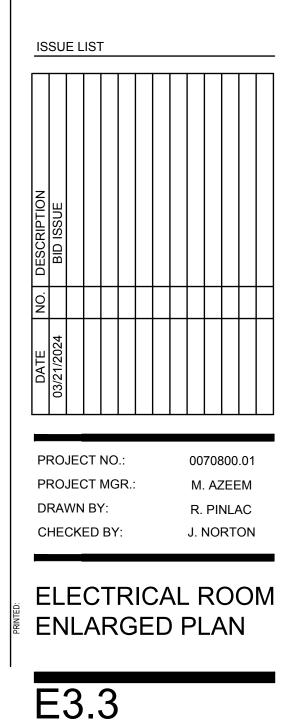




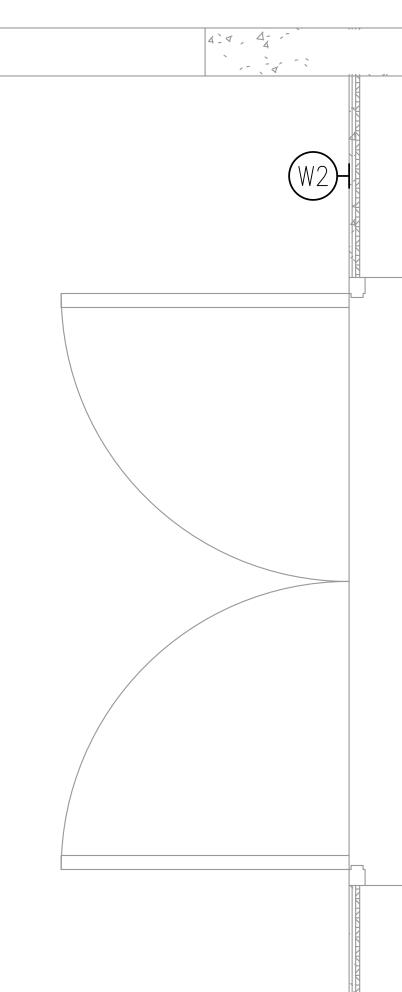


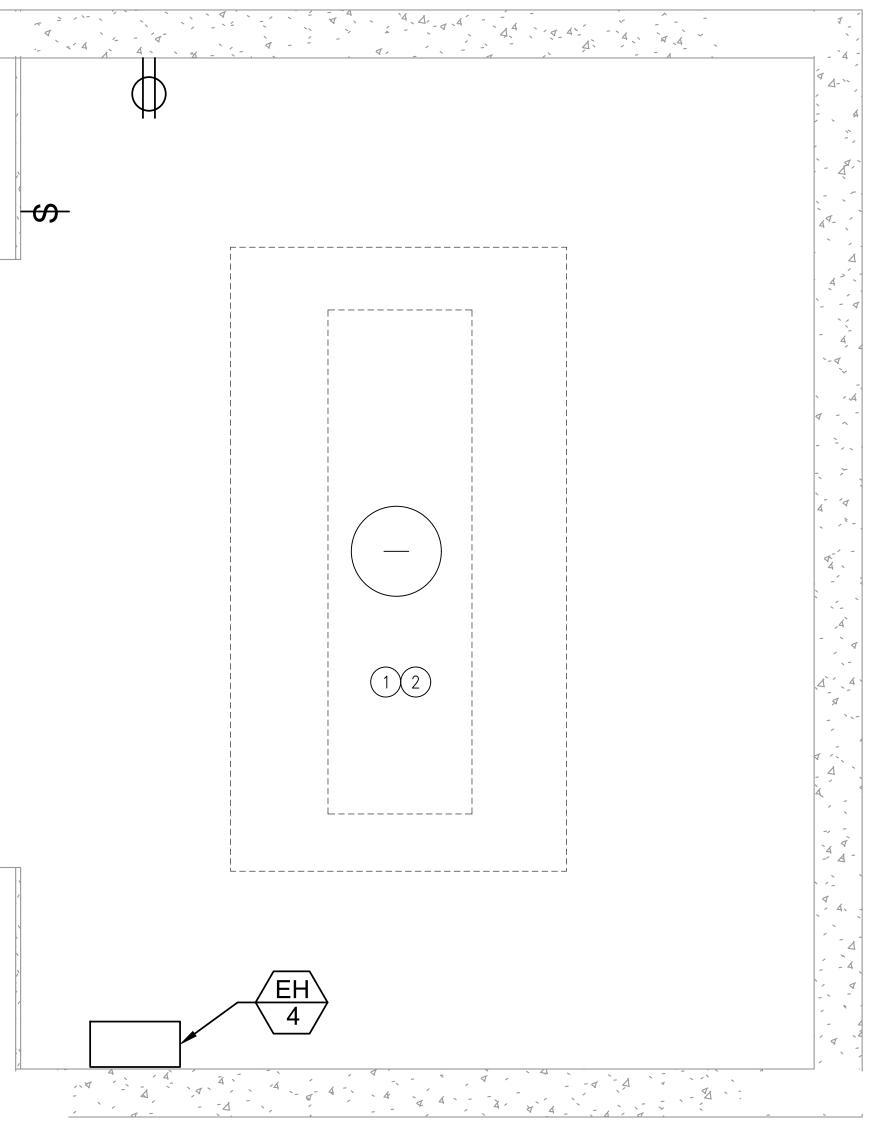
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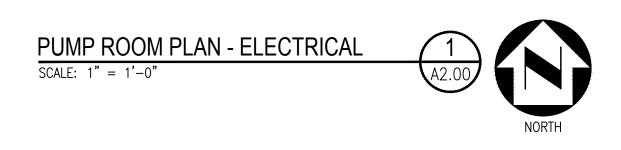












REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION. REARRANGE EQUIPMENT IN SPACE AS REQUIRED.
- 2. SEE ARCHITECTURAL SITE PLAN FOR ROOM LOCATION.

CONSTRUCTION NOTES

- 1 THE HEATER, RECEPTACLE AND LIGHTING CIRCUIT WILL BE FED FROM PANEL A IN NEW ELECTRICAL ROOM.
- 2 THE PRESSURE WATER EQUIPMENT WILL BE FED FROM RELOCATED EXISTING MCC IN NEW ELECTRICAL ROOM.

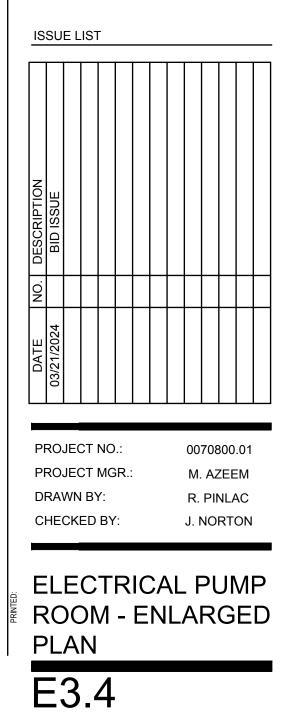


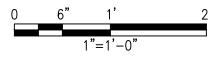
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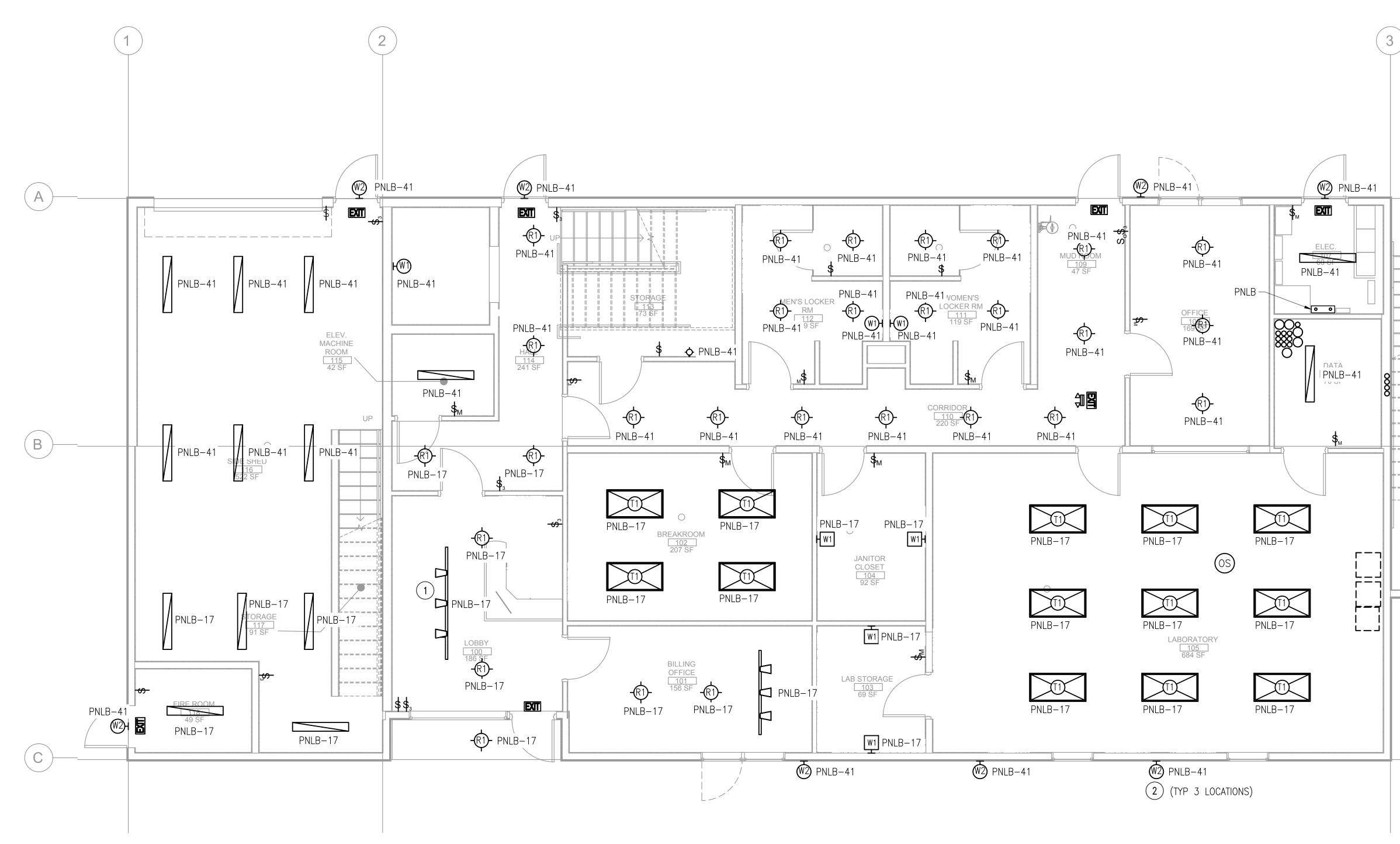






FIRST FLOOR LIGHTING FIXTURE SCHEDULE

ID	DESCRIPTION	QTY	VOLTAGE	VA	MOUNTING	LUMENS	LED COLOR TEMP	MANUFACTURER/CAT. NO.	NOTES
(W1)H	WALL MOUNTED – LED VANITY FIXTURE	2	120-277 VAC	39	SURFACE/WALL	2400	3000К	LINEA LIGHTING/LL-SC1042/LL-SC1043/LL-SC1044	
W2H	WALL MOUNTED EXTERNAL LED FIXTURE	8	120-277 VAC	27	SURFACE/WALL	2400	3000K	AFX DEXTER LED OUTDOOR SCONCE/DEXW SERIES	_
Θ	4' LED LINEAR FIXTURE	9	120-277 VAC	49	PENDANT	4800	4000K	ECOSENSE OXYGEN 31	_
(1)	2'X4' LED RECESSED DIRECT\INDIRECT	2	120-277 VAC	50	SURFACE	5705	3500K	CORONET /TDCW LED-2X4-LTGI-COLOR-90CRI	_
P1	PENDANT LIGHT	1	120-277 VAC	39	PENDANT	_	4000K	VISUAL COMFORT & CO 700TDWDS LED 90 CRI 3000K 120V	_
R1	6" LED RECESSED DOWNLIGHT	6	120-277 VAC	-	SURFACE	_	2700K	NORA / NHMIC-685-LE4* / NRM-611L-85-35-HZW	_
EXIT	LED EXIT SIGN	6	120-277 VAC	5	CEILING	_	LED	EXITRONIX S900 SERIES (PART NO. TBD)	_
区11 示	LED EXIT EGRESS SIGN	1	120-277 VAC	_	CEILING	410	4000K	DUAL LITE LED EXIT EGRESS SIGN (PART NO.)	EV EMERGENCY LIGHT, MOUNTING TYPE: WALL OR CEILING MOUNT, COLOR: WHITE, NUMBER OF LAMPS: 2, BATTERY TYPE: NICKEL METAL HYDRIDE (NIMH), BATTERY RUNTIME: 90 MIN, VOLTAGE RATING: 120/277 VAC, ENVIRONMENTAL CONDITIONS: DRY LOCATION
0S2	OCCUPANCY SENSORS	AS REQ'D	120VAC	_	SURFACE/WALL	_	-	SENSORSWITCH / AS REQ'D	LIGHTING CONTROL, SEE DRAWING NOTES
W1 H	4' LED LINEAR FIXTURE	4	120-277 VAC	50	SURFACE/WALL	_	3000К	CORONET/850WM-4 3000K/90 CRI	_



FIRST FLOOR LIGHTING PLAN

E4.0

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

LEGEND

REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

GENERAL NOTES

- 1. ALL CONDUIT ROUTING IS DIAGRAMMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL CODES.
- 2. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUCTORS TO BE TYPE THHN COPPER UNLESS OTHERWISE NOTED.
- 3. ALL BRANCH CIRCUIT CONDUCTORS TO BE SIZED #12 AWG UNLESS OTHERWISE NOTED ON THE PLANS.
- 4. INSTALL ALL STAIRWELL MOTION SENSORS FACING DIRECTION OF STAIRS.
- 5. PAINT ALL CONDUIT AND DEVICE BOXES TO MATCH WALL AND CEILING COLORS.
- 6. TOTAL CONNECTED LIGHTING LOADS (TOTAL FIXTURES CONNECTED TO A SINGLE CIRCUIT) SHALL NOT BE MORE THAN 16A FOR 20A CIRCUITS OR 12A FOR 15A CIRCUITS. SEE SHEET E5.0 FOR PANELBOARD SCHEDULES CIRCUIT ASSIGNMENTS.
- 7. ALL EXTERIOR LIGHTS ARE EQUIPPED WITH PHOTOCELL FOR COMING ON AT DUSK AND GOING OFF AT DAWN. INSTALL LIGHT SWITCH DIGITAL TIMERS CONTROLLING OUTSIDE LIGHTS TO TURN THE LIGHTS OFF AT 11:00 PM UNTIL 6:00 AM.
- 3. ALL LIGHTING AND CONTROLS INSTALLED SHALL BE FUNCTIONALLY TESTED AND A WRITTEN REPORT INCLUDING THE RESULTS BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- 9. JUNCTION BOXES ARE NOT SHOWN. CONTRACTOR SHALL USE AS NEEDED IN ACCORDANCE WITH NEC 358.26.
- 10. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND COVERED FINISHED WITH ONE COVER PLATE U.N.O.
- 11. WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE INTERIOR LIGHTING SUMMARY ATTACHED SEPARATELY.
- 11. NOTIFY ARCHITECT OF ANY CONFLICTS OF LIGHT FIXTURE LOCATIONS WITH MAIN RUNNERS, DUCTS, SPRINKLERS, HVAC, AND/OR EXISTING CONDUIT, PRIOR TO FRAMING FOR LIGHTS. ANY DISCREPANCIES BETWEEN ARCHITECTS PROPOSED CEILING GRID/PANEL LOCATIONS AND ACTUAL FIELD CONDITIONS ARE TO BE CLARIFIED WITH THE ARCHITECT PRIOR TO FRAMING.

KEYED NOTES

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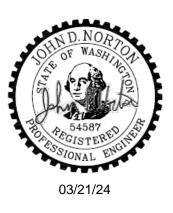
- 1 CONTRACTOR SHALL INSTALL RECESSED CAN LIGHT FIXTURES IN 1 1/2" CEMENT UNDERLAYMENT SLAB BETWEEN 1ST AND 2ND FLOOR.
- 2 FOR EXTERIOR LIGHTING FIXTURES ELEVATION HEIGHT REFER TO SHEET A4.00.

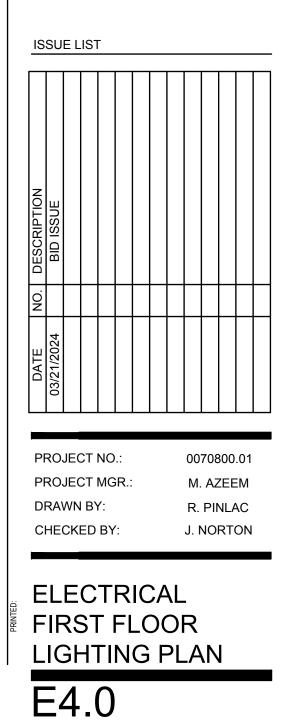


BID ISSUE



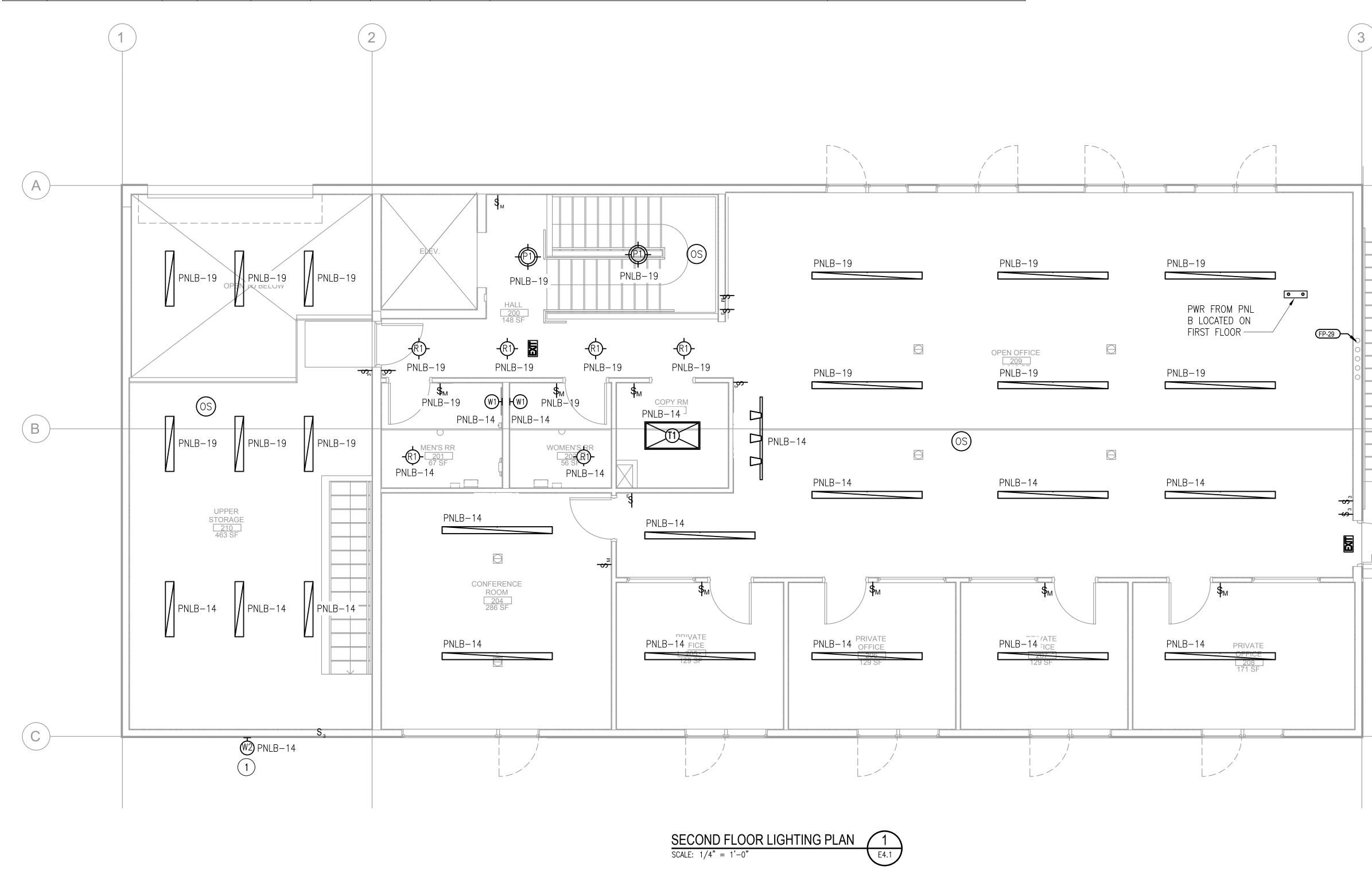
BUILDING RO UTILITY WA 9827 ACH Ш Ш S -SION TULALIP, S TRIBE MIS S $\overline{}$ 30 ALIP TUL





SECOND FLOOR LIGHTING FIXTURE SCHEDULE

ID DESCRIPTION	QTY	VOLTAGE	VA	MOUNTING	LUMENS	LED COLOR TEMP	MANUFACTURER/CAT. NO.	NOTES
WALL MOUNTED – LED VANITY FIXTURE	2	120-277 VAC	39	SURFACE/WALL	2400	3000K	LINEA LIGHTING/LL-SC1042/LL-SC1043/LL-SC1044	
WALL MOUNTED EXTERNAL LED FIXTURE	1	120-277 VAC	27	SURFACE/WALL	2400	3000K	AFX DEXTER LED OUTDOOR SCONCE/DEXW SERIES	_
4' LED LINEAR FIXTURE	9	120-277 VAC	49	PENDANT	4800	4000K	ECOSENSE OXYGEN 31	-
2'X4' LED RECESSED DIRECT\INDIRECT	2	120-277 VAC	50	SURFACE	5705	3500К	CORONET /TDCW LED-2X4-LTGI-COLOR-90CRI	_
PENDANT LIGHT	1	120-277 VAC	39	PENDANT	550	4000K	VISUAL COMFORT & CO 700TDWDS LED 90 CRI 3000K 120V	_
6" LED RECESSED DOWNLIGHT	6	120-277 VAC	32	SURFACE	2000	2700K	NORA / NHMIC-685-LE4* / NRM-611L-85-35-HZW	
LED EXIT SIGN	2	120-277 VAC	5	CEILING	_	LED	EXITRONIX S900 SERIES (PART NO. TBD)	_
LED EXIT EGRESS SIGN	-	120-277 VAC	_	CEILING	410	4000K	DUAL LITE LED EXIT EGRESS SIGN (PART NO.)	EV EMERGENCY LIGHT, MOUNTING TYPE: WALL OR CEILING MOUNT, COLOR: WHITE, NUMBER OF LAMPS: 2, BATTERY TYPE: NICKEL METAL HYDRIDE (NIMH), BATTERY RUNTIME: 90 MIN, VOLTAGE RATING: 120/277 VAC, ENVIRONMENTAL CONDITIONS: DRY LOCATION
OCCUPANCY SENSORS	AS REQ'D	120 VAC	_	SURFACE/WALL	_	-	SENSORSWITCH / AS REQ'D	LIGHTING CONTROL, SEE DRAWING NOTES
CANOPY LIGHT	1	120 VAC	94	SURFACE/JB	5000/7500/ 10,000	3K/4K/5K	LITHONIA LED ALO SWW2 UVOLT PE PIR DOB M2 (Dark Bronze)	3 POWER LEVELS, OCCUPANCY SENSOR, SWITCHABLE CCT



LEGEND

REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

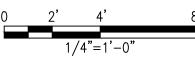
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- 3. ALL BRANCH CIRCUIT CONDUCTORS TO BE SIZED #12 AWG UNLESS OTHERWISE NOTED ON THE PLANS.
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- 9. JUNCTION BOXES ARE NOT SHOWN. CONTRACTOR SHALL USE AS NEEDED IN ACCORDANCE WITH NEC 358.26.
- 10. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND COVERED FINISHED WITH ONE COVER PLATE U.N.O.
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KEYED NOTES

PNLB-14

1 FOR EXTERIOR LIGHTING FIXTURES ELEVATION HEIGHT REFER TO SHEET A4.00.



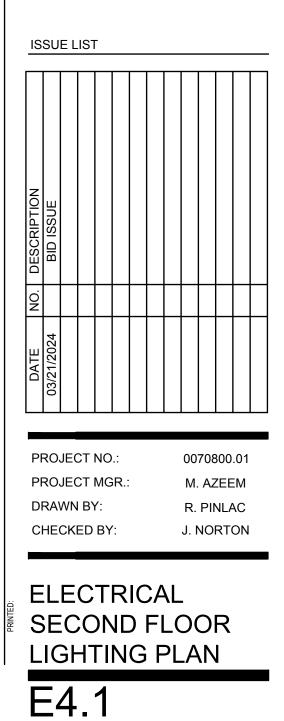






TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271





PANEL NAME:							MDP 1							
FLOOR	1		VOL	TAGE:	240	1	120			MA		EAKER:	800	
BUILDING:	3015			HASE:	3							SONLY:		
ROOM:	038			WIRE:	4							RFACE:	Х	
COLUMN:	000	-					800	·N/A I	NCB	AMPS		FLUSH:	Λ	
COLONIN.		011		AMPS:			000					ID BUS:	Х	
N //N													~	
	I. SHOR	I CIRC		ATING:	65K				ISOLA			ID BUS:	N	
INCLUDE SPARE CAP Y/N:	Y									N	EUIR/	L BUS:	Х	
	1.70	DODT		MOT	0.0 *	OKT	DU	OVT		1.70	DODT		MOT	
SERVES	LTG	RCPT				СКТ			-	LTG	RUPI		MOT	SERVES
100A PANEL A			10.1		100	1	Α	2	100			7.728		100A PANEL B
-			5.97		-	3	В	4	-			8.426		-
-			7.42		-	5	С	6	-			8.264		-
100A PANEL C			9.29		100	7	Α	8	600			20.78		* EXISTING 600A MCC
-			8.85		-	9	В	10	-			20.78		-
-			10.5		-	11	С	12	-			20.78		-
WH-1 WATER HEATER (1ST)			8		80	13	Α	14	20			3.95		CU-2 CONDENSING UNIT (1ST)
-			8		-	15	В	16	-			3.95		-
-			8		-	17	С	18	20			3.95		CU-3 CONDENSING UNIT (1ST)
CU-1 CONDENSING UNIT (1ST)			7.90		80	19	A	20	-			3.95		-
-			7.90		-	21	В	22	20					SPARE
-			7.90		-	23	С	24	-					SPARE
SPACE						25	A	26						SPACE
SPACE						27	В	28						SPACE
SPACE						29	C C	30						SPACE
SPACE						31	A	32						SPACE
SPACE						33	В	34						SPACE
SPACE						35	C C	36						SPACE
SPACE						37	A	38						SPACE
SPACE						39	В	40						SPACE
SPACE						41	C C							SPACE
			A	7					0		57			SFACE
CON	NECTE	JKVA	A:	1	2	B:	64	•	C:	C	D7			
	DIAVA											AMPS	KVA	
						<u>D.F.</u>	DEMA	ND K	VA:					DESIGN (BASED ON SUPPLY)
	0.0					1.00	0.0					466.1		CONNECTED
RECEPT. LOAD - FIRST 10 KVA:	0.0	-				1.00						466.1		DEMAND
RECEPT. LOAD - REMAINDER:	0.0					0.50						333.9	138.8	SPARE
POWER LOAD:	193.8					1.00				AVG				
MOTOR LOAD EXCEPT LARGEST:	0.0					1.00				KVA		AMPS		CONNECTED
LARGEST MOTOR:	0.0					1.25				0.1		1	0.1	
20% SPARE CAPACITY:	0.0	-				1.00						1	0.1	
TOTAL CONNECTED LOAD (kVA):	193.8		TOT	AL DEI	MAND	LOAD:	193.8					1	0.1	PHASE C
INSTRUCTIONS:											PHASE			
* - ALL BRANCH CIRCUIT BREAKE	RS ARE	1P20	UNLE	SS OT	HERW	ISE SH	OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES	OF MUL	TI-POL	ECIR	CUIT B	REAK	ERS					0%		106%	PHASE A
NOTES:											0%		95%	PHASE B
* EXISTING MCC IN LAB BUILDING	VAS 13	3 KVA	CONN	ECTER	OR 3	20A AT	240V				0%		99%	
MCC FEEDS 2 BRUSH ROTOR MC								FIC	LOAD	S AMO				
											2.110			

MAIN DISTRIBUTION PANEL 'MDP 1' (2)

PANEL NAME:						P		3						
FLOOR	1		VOL	TAGE:	240	/	120			MA		EAKER:	100	
BUILDING:	3015			HASE:	3							SONLY:		
ROOM:	038			WIRE:	4							RFACE:		
COLUMN:	000			AMPS:	~		100	·M4		AMPS		FLUSH:	X	
COLONIN.		511		AMPS:			100	.10// \1		7		ID BUS:	Х	
N/IN	I. SHOR											ID BUS:		
INCLUDE SPARE CAP Y/N:				ATING.	051				ISOL/			AL BUS:		
INCLUDE STARL CALLETTIN.	I									IN		AL 000.	Λ	
SERVES	LTG	RCPT	PWR	MOT	CB *	CKT	PH	СКТ	CB *	LTG	RCPT	PWR	MOT	SERVES
RECEPT OFFICE (1ST)		1.26			20	1	Α	2	20		1.26			RECEPT CORRIDOR (1ST)
SPARE (208V Ckts ONLY)						3	В	4	-					-
RECEPT BREAKROOM (1ST)		0.9			20	5	С	6	20		1.08			RECEPT LOBBY/BILLING (1ST)
RECEPT STORAGE (1ST)		0.9			20	7	Α	8	20		1.08			RECEPT OPEN OFFICE N. (2ND)
'SPARE (208V Ckts ONLY)						9	В	10	_					-
RECEPT BATH/COPY RM (2ND)		0.72			20	11	C	12	20		0.72			RECEPT CONFERENCE RM (2ND)
RECEPTACLE STORAGE (2ND)		0.72				13	Α	14	20	0.89				LIGHTING B (2ND)
'SPARE (208V Ckts ONLY)						15	В	16						-
LIGHTING B (1ST)	1.05					17	C	18	0.1					LIGHT IN ELEVATOR PIT
LIGHTING A (2ND)	0.74				20	19	Α	20	-			0.09		-
'SPARE (208V Ckts ONLY)						21	В	22	-					SPARE (208V Ckts ONLY)
LIGHTING EXTERIOR	0.28				20	23	С	24	20			1.92		DW-1 KITCHEN DISHWASHER
LIGHTING CONTROL PANEL					20	25	Α	26	20					SPARE
SPARE						27	В	28	-					-
ELEVATOR SUMP PUMP			1.5		20	29	С	30	20					SPARE RECEP IN ELEVATOR PIT
ELEVATOR CAB/LIGHT/SIGNAL	0.12				20	31	Α	32	_					SPACE S1 IN-SINK ERATOR
'SPARE (208V Ckts ONLY)						33	В	34	-					-
RECEPT LAB RM N. (1ST)		0.9			20	35	С	36	20		1.08			RECEPT LAB RM S. (1ST)
RECEPT OPEN OFFICE S. (2ND)		0.9			20	37	Α	38	20		1.44			RECEPT PRIVATE OFFICE (2ND)
SPACE						39	В	40	-					SPACE
LIGHTING A (1ST)	1.00				20	41	С	42	20		0.18			RECEPT (ROOF)
	NECTE		A:	ç)	B:	0		C:	1	1			
										-	-	AMPS	KVA	
CONNECTE	D KVA:					D.F.	DEMA	ND K	VA:			100.0		DESIGN (BASED ON SUPPLY)
LIGHTING LOAD:						1.00	4.1					58,17		CONNECTED
RECEPT. LOAD - FIRST 10 KVA:						1.00								DEMAND
RECEPT. LOAD - REMAINDER:						0.50								SPARE
POWER LOAD:	6.68					1.00	6.68			AVG				
MOTOR LOAD EXCEPT LARGEST:						1.00				KVA		AMPS	KVA	CONNECTED
LARGEST MOTOR:						1.25				0.0		0	0.0	
20% SPARE CAPACITY:						1.00						0	0.0	
TOTAL CONNECTED LOAD (kVA):	24.18		TOT	AL DEI	MAND	LOAD:	22.58					0	0.0	PHASE C
INSTRUCTIONS:										F	PHASE			
* - ALL BRANCH CIRCUIT BREAKE	RS ARE	1P20	UNLE	SS OT	HERW	ISE SH	OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES	OF MUL	TI-POL	ECIR	CUIT B	REAK	ERS					0%		136%	PHASE A
NOTES:											0%		0%	PHASE B
											0%		164%	PHASE C
				-										

240/120V PANEL 'B' 2

PANEL NAME:						P		<u>م</u>						
FLOOR	1			TAGE:	240	1	120			N/4		EAKER:	100	
BUILDING:	3015			HASE:		1	120			IVI/		S ONLY:	100	
				and the second second									V	
ROOM:	038			WIRE:	4		400					RFACE:	Х	
COLUMN:				MPS:			100	:IMAI	NCB	AMPS		FLUSH:		
			PPLYA									ID BUS:	Х	
	I. SHOR	TCIRC		ATING:	65K				ISOLA			D BUS:		
INCLUDE SPARE CAP Y/N:	Y									N	IEUTR/	AL BUS:	Х	
SERVES	LTG	RCPT	PWR	MOT	CB *	CKT	PH	CKT	-	LTG	RCPT	PWR	MOT	SERVES
FCU-1, FCU-2, & FCU-3 (1ST)			0.04		20	1	Α	2	20			0.03		FCU-4 & FCU-5 (1ST)
			0.04		-	3	В	4	-			0.03		-
FCU-6 & FCU-7 (1ST)			0.02		20	5	С	6	20			0.14		FCU-8, 9, 10, 11, & FCU-12 (2ND)
			0.02		-	7	Α	8	-			0.14		-
FCU-13 FAN COIL UNIT (2ND)			0.11		20	9	В	10	20			0.17		DOAS-1 VENTILATOR (1ST)
			0.11		-	11	С	12	-			0.17		-
DOAS-2 VENTILATOR (2ND)			0.12		20	13	Α	14	20			3		DRYER (1ST)
			0.12		-	15	В	16	-			3		-
BC-1 BRANCH CKT HEAT RECOV.			0.17		20	17	С	18	45			4.2		RANGE (1ST)
-			0.17		(He)	19	Α	20	-			4.2		-
ELEVATOR MOTOR (10HP)			2.5		30	21	В	22	20				~~~~~~	SPARE
-			2.5		i-,	23	С	24	-					SPARE
RECEPT STORAGE (2ND)		0.72			20	25	A	26	20			1.56		H-1 RANGE HOOD & MICROWAVE
SPARE					20	27	В	28	20					SPARE
LIGHTING B (2ND)	0.89				20	29	С	30	20			1.75		S-1 IN-SINK ERATOR, HW DISPENS
LIGHT IN ELEVATOR PIT	0.1				20	31	A	32	20					SPARE
SPACE						33	В	34	-					SPACE
RECEPT IN ELEVATOR PIT		0.18			20	35	C	36	-					SPACE
SPACE					-		A	38	_					SPACE
SPACE					1 -1	39	В	40	_					SPACE
SPACE					1	41	C		_					SPACE
	NECTE		A:	1	0	B:	6		C:	1	0			
CON			<u>.</u>	l	U	U.	U		U .		U	AMPS	KVA	
CONNECTE						D.F.	DEMA	א חא	\/Δ·			100.0		DESIGN (BASED ON SUPPLY)
LIGHTING LOAD:	1.0					1.00	1.0	1	<u>v</u>			62.4		CONNECTED
RECEPT. LOAD - FIRST 10 KVA:	0.9	1				1.00		1				62.4		DEMAND
RECEPT. LOAD - REMAINDER:	0.0					0.50						37.6		SPARE
POWER LOAD:	24.0					1.00				AVG		57.0	15.0	SFARE
MOTOR LOAD EXCEPT LARGEST:	24.0					1.00	24.0			KVA		AMPS		CONNECTED
								1		-			The second concerns	
	0.0					1.25	0.0			0.0		0	0.0	
	0.0	-	тот			1.00	Pro Table	-				0	0.0	
TOTAL CONNECTED LOAD (kVA):	25.9		TOTA	AL DEI	VIAND	LOAD:	25.9					0	0.0	PHASE C
											PHASE			
							OVVN				LOAD		44004	PHASE BALANCE
[-DENOTES ADDITIONAL POLES	OF MUL	.11-20		CUIFB	REAK	ERS					0%		116%	
NOTES:											0%		68%	
											0%		116%	PHASE C

240/120V PANEL 'A' 2

PANEL NAME:						P	ANEL	0						
FLOOR	1		VOL.	TAGE:	240	1	120			MA		EAKER:	100	
BUILDING:	3015		PI	HASE:	3						LUG	SONLY:		
ROOM:	038			WIRE:	4						SU	RFACE:	Х	
COLUMN:				AMPS:			100	:MAI	N CB A	MPS		FLUSH:		
		SU	PPLY									D BUS:	Х	
MIN	I. SHOR											ID BUS:	~	
INCLUDE SPARE CAP Y/N:									IC CL			AL BUS:	Х	
	•										20110		X	
SERVES	LTG	RCPT	PWR	MOT	CB *	СКТ	PH	СКТ	CB *	LTG	RCPT	PWR	MOT	SERVES
SECURITY EQUIPMENT					20	1	A	2	20			1.08		LAB RM STILL (9A)
CP-1 HW CIRC. PUMP (1ST)				0.29		3	В	4	20			2.5		UH-1 UNIT HEATER (1ST)
TELECOM PANEL					20	5	С	6	20			1.73		LAB RM TSS OVEN (14.4A)
EF-1 EXHAUST FAN (1ST)			0.05		20		A	8	20			0.74		LAB RM INCUBATOR FRIDGE (6.2A
LIGHTING B (1ST)	1.05				20	9	В	10	20			0.09		EF-2 EXHAUST FAN (ROOF)
EH-2 ELECTRIC HEATER (1ST)			0.25		20	11	C	12	20			1.2		LAB RM COLIFORM BATH
EH-3 ELECTRIC HEATER (1ST)			0.25		20		A	14	20				0.25	LAB RM VACUUM PUMP (1/3HP)
HP-2 HEAT PUMP (1ST)			0.42		20	15	В	16	20			0.50	0.20	SF-1 SUPPLY FAN (1ST)
FIRE ALARM PANEL			J.72		20	17	C	18	20			1.92		DW-1 LAB RM DISHWASHER (16A)
HP-1 HEAT PUMP (1ST)			0.42		20		A	20	- 20			2.5		
'SPARE (208V Ckts ONLY)			U.72		~~	21	В	22	_			2.5		_
EH-1 ELECTRIC HEATER (1ST)			0.25		20	23	C	24	20			1.4		LAB RM AUTOCLAVE (12A)
SPACE			0.25		20		A	26	20			۰. ۱		DH-1 DUCT HEATER (1ST)
'SPARE (208V Ckts ONLY)					20	27	B	28				<u> ۲</u>		-
DF-1 WATER COOLER (1ST)			0.37		20	29	C	30	20					SPARE
PRESSURE WASHER ROOM	0.1		1.5		20		A	32	20			2		DH-2 DUCT HEATER (2ND)
SPACE	0.1		1.5		20	33	B	34	20			Z		DH-2 DUCT HEATER (2ND)
SPACE						35	C	36	-			I		-
SPACE							A	38	20			2		- DH-3 DUCT HEATER (1ST)
SPACE						39	B	40	20					DH-3 DUCT HEATER (131)
						•• ••••••••••••••••••••••••••••••••••••		· ·····	-			2		-
SPACE						41	C		-			2		-
CON	NECTE	JKVA	A:	1	3	B:	9		C:	(9			
												AMPS	KVA	
							DEMA	1	VA:			100.0		DESIGN (BASED ON SUPPLY)
	1.2					1.00	1.2					73.0		
RECEPT. LOAD - FIRST 10 KVA:	0.0					1.00						73.0		DEMAND
RECEPT. LOAD - REMAINDER:	0.0					0.50						26.5	11.0	SPARE
POWER LOAD:	28.9					1.00				AVG				
MOTOR LOAD EXCEPT LARGEST:						1.00				KVA		AMPS		CONNECTED
LARGEST MOTOR:						1.25	0.3			0.0		0	0.0	
20% SPARE CAPACITY:	0.0					1.00		-				0	0.0	
TOTAL CONNECTED LOAD (kVA):	30.6		TOT	AL DEI	MAND	LOAD:	30.6					0	0.0	PHASE C
INSTRUCTIONS:											PHASE			
* - ALL BRANCH CIRCUIT BREAKE							OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES	OF MUL	TI-POL		CUIT B	REAK	ERS					0%		125%	
NOTES:											0%		86%	PHASE B
											0%		89%	PHASE C

240/120V PANEL 'C' 2



LEGEND

NOT USED

GENERAL NOTES 1. NOT USED.

KEYED NOTES

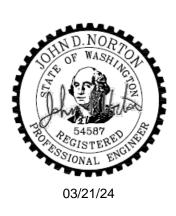
- 1 RELOCATE EXISTING EQUIPMENT FROM LAB TO MAIN UTILITY BUILDING.
- 2 EQUIPMENT SHALL BE PERMANENTLY MARKED WITH LABEL "CAUTION: B PHASE HAS 208 VOLTS TO GROUND". ALL PHASE B CONDUCTORS AND BUSBARS ON THIS SYSTEM SHALL BE DURABLY AND PERMANENTLY MARKED BY AN OUTER ORANGE FINISH.

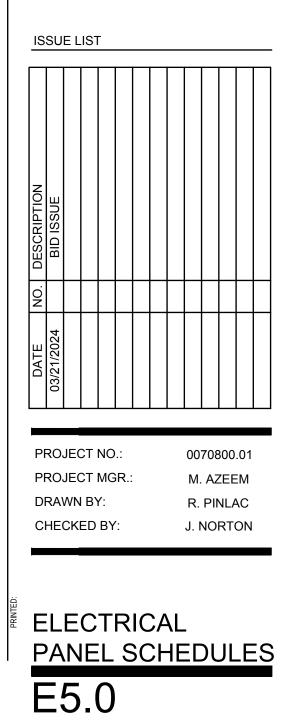


BID ISSUE

HARRIS GROUP Big Capabilities * Dedicated People harrisgroup.com PROJECT NO: 0070800.01

> TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271





	Cell	Destination	Poles	ing Cable size	Remarks	
LF G	3	MFR Influent Fine Screen Control Panel	3	20A	(4) # 12 AWG	
lf J		Emergency Power Panel 240/120V, 3P 06 BKR 01	3	100A	n/a	
2F C	2	Brush Rotor No. 1 Motor 02 MS 01	3	70A	(4) #6 AWG	15HP 2
2F F	-	Brush Rotor No. 2 Motor 02 MS 02	3	70A	(4) #6 AWG	15HP 2
2F J		Clarifier No. 1 Motor 03 MS 01	3	7A	(4) #12 AWG	0.5HP 2
2F N	N	Clarifier No. 2 Motor 03 MS 02	3	7A	(4) #12 AWG	0.5HP 2
BF C	2	Lighting Panel 240/120V, 3P 06 BKR 02	3	200A	n/a	
BF E	E	Air Gap Panel 06 BKR 01	3	100A	(4) # 2 AWG	
BF K	K	Panel Board 240/120V, 3P, 100A, 30CKT 06 PB 03	3		n/a	Internal panel
A	Add construc	tion note on this drawing				

EXISTING MCC SCHEDULE SCALE: NO SCALE

LEGEND

NOT USED

GENERAL NOTES 1. NOT USED.

KEYED NOTES

- 1 REFER TO SHEET E2.0 FOR SINGLE LINE DIAGRAM. SEE 06 MCC 01 PANEL KEYED NOTES.
- 2 THE ESTIMATED LENGTHS OF CABLES IS AROUND 350 FEET. CONTRACTOR TO CONFIRM AT SITE.



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