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GENERAL

A0.01 GENERAL NOTES A0.02 ENERGY CODE COMPLIANCE

A1.00 CODE PLAN

C1.20 SITE PLAN C1.30 GRADING PLAN

C1.31 EROSION AND SEDIMENT CONTROL PLAN

C1.32 EROSION AND SEDIMENT CONTROL PLAN

C1.40 UTILITY PLAN C2.00 DETAILS

C2.01 DETAILS

ARCHITECTURAL

A1.10 AIR BARRIER PLAN & SECTION

A2.00 ARCHITECTURAL SITE PLAN

A3.00 DEMOLITION PLAN A3.01 FLOOR PLAN LEVEL 1

A3.02 FLOOR PLAN LEVEL 2 A3.03 ROOF PLAN

A3.04 FINISH PLAN LEVEL 1

A3.05 FINISH PLAN LEVEL 2 A3.07 ENLARGED PLANS

A3.08 ENLARGED PRESSURE WASHER ROOM

A4.00 EXTERIOR ELEVATIONS

A4.01 LAB ELEVATIONS A4.02 LAB ELEVATIONS - ISLAND

A4.03 OFFICE ELEVATIONS A4.04 LOBBY & EXIT ELEVATIONS

A4.05 LOCKER ROOM ELEVATIONS

A4.06 FLOOR 01 OFFICE ELEVATIONS

A4.07 SHED ELEVATIONS

A4.08 BREAKROOM ELEVATIONS A4.09 BILLING OFFICE ELEVATIONS

A4.10 CIRCULATION MUD ROOM ELEVATIONS A4.11 JANITOR CLOSET ELEVATIONS

A4.12 | CONFERENCE ROOM ELEVATIONS

A4.13 PRIVATE OFFICE 206 ELEVATIONS A4.14 LEVEL 2 RESTROOMS

A4.15 PRIVATE OFFICE ELEVATIONS - OFFICE 208

A4.16 COPY ROOM ELEVATIONS A5.00 BUILDING SECTIONS

A5.01 WALL SECTIONS A6.00 RESTROOM ENLARGED PLANS, DETAILS

A6.01 DETAILS A6.02 DETAILS

A6.03 OPENING DETAILS

A6.04 INTERIOR DETAILS - BILLING OFFICE AND LOBBY

A6.05 DETAIL - FLASHING

A6.15 STAIR ENLARGED PLAN & DETAILS

A7.00 REFLECTED CEILING PLAN LEVEL 01 A7.01 REFLECTED CEILING PLAN LEVEL 02

A9.00 SCHEDULES

A9.10 WALL SCHEDULE

A9.20 FLOOR AND ROOF SCHEDULE

A9.30 DOOR SCHEDULE DOOR HARDWARE

A9.40 WINDOW SCHEDULE

STRUCTURAL

S0.01 STRUCTURAL NOTES AND DRAWING LIST S0.02 STRUCTURAL NOTES AND INSPECTION SCHEDULE

S0.11 STRUCTURAL SYMBOLS AND ABBREVIATIONS S1.01 LOAD MAPS

S2.01 FOUNDATION PLAN

S2.02 2ND FLOOR FRAMING PLAN

S2.03 ROOF FRAMING PLAN S3.01 EXTERIOR WALL FRAMING ELEVATIONS

S3.02 EAST STAIR FRAMING ELEVATION AND DETAILS

S4.01 TYPICAL CONCRETE DETAILS

S4.11 FOUNDATION SECTIONS AND DETAILS

S5.01 TYPICAL WOOD FRAMING DETAILS

S5.02 TYPICAL WOOD FRAMING DETAILS

S5.03 TYPICAL WOOD FRAMING DETAILS S5.04 TYPICAL WOOD FRAMING DETAILS

S5.05 TYPICAL WOOD FRAMING DETAILS

S5.06 TYPICAL WOOD STAIRS DETAILS

S5.07 TYPICAL WOOD ELEVATOR DETAILS

S5.11 WOOD FRAMING DETAILS

S5.21 TYPICAL WOOD ROOF FRAMING DETAILS

S6.11 STEEL DETAILS

MECHANICAL

M1.0 COVER SHEET M1.1 ENERGY CODE NOTES / SCHEDULES

M1.2 SCHEDULES

M1.3 SCHEDULES

M1.4 SCHEDULES M2.0 BELOW SLAB PLAN - PLUMBING

M2.1 FIRST FLOOR PLAN - PLUMBING

M2.2 SECOND FLOOR PLAN - PLUMBING

M3.0 FIRST FLOOR PLAN - HVAC M3.1 SECOND FLOOR PLAN - HVAC

M3.2 ROOF PLAN - HVAC

M4.0 DETAILS

M4.1 DETAILS

ELECTRICAL

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 ELECRICAL 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 ELECRICAL SECOND FLOOR LIGHTING PLAN E5.0 ELECTRICAL PANEL SCHEDULES

E5.1 EXISTING MCC SCHEDULE

BUILDING ROAD TRIBE

SION BEACH I WA 98271 5 MISS -ALIP, 3015 TUL,

ISSUE LIST **BID ISSUE** 03/21/2024

COVER

A0.00

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

WITHOUT THE ARCHITECT'S WRITTEN APPROVAL. THE CONTRACTOR AGREES TO DEFEND, INDEMNIFY,

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

AND HOLD THE ARCHITECT HARMLESS FROM ANY CLAIMS ARISING AS A RESULT OF UNAPPROVED

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

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.

WITH ALL APPLICABLE SAFETY CODES.

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.

PLUMBING, MECHANICAL & ELECTRICAL

APPROVED BY THE TENANT PRIOR TO THE START OF ANY WORK.

1. PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS ARE TO BE SUBMITTED UNDER SEPARATE

2. MECHANICAL & ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE TO MAINTAIN COMPLIANCE

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.

THE PROPOSED SYSTEM DESIGN & METHOD OF OPERATION FOR ALL ROOMS SHALL BE REVIEWED AND

4. OWNER, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS ARE SUPPLEMENTARY TO THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES BETWEEN THE CONSULTANTS' DRAWINGS WITH A WRITTEN REQUEST FOR CLARIFICATION. ANY WORK INSTALLED IN CONFLICT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE BUILDING OWNER, TENANT, OR

5. 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. ALL EXPOSED MATERIAL & PIPING IN RETURN AIR PLENUM MUST MEET FS 25.

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

SUBMITTALS AND WARRANTY

1. SUBMIT A LIST OF PROPOSED PRODUCT SUBMITTALS AND SHOP DRAWINGS TO THE OWNER FOR APPROVAL PRIOR TO START OF CONSTRUCTION.

2. 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 SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT IN WRITING FOR APPROVAL WITHOUT DELAY OF SCHEDULE.

3. 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 AGREEMENT. ALL REPAIRS, CORRECTIONS, DISCREPANCIES, ETC., MUST BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER, AND WITHIN FIVE (5) DAYS AFTER NOTICE IS GIVEN.

FIRE PROTECTION

AT LEAST 36" AFF.

1. FIRE PROTECTION DRAWINGS ARE TO BE SUBMITTED UNDER SEPARATE PERMIT.

2. IF NECESSARY, PROVIDE FIRE PROTECTION AT ALL PENETRATIONS OF FIRE RELATED ELEMENTS AS REQUIRED BY CODE.

3. FIRE EXTINGUISHERS: VERIFY LOCATION, TYPE, AND SIZE PER FIRE MARSHAL REQUIREMENTS. 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 BUILDING STANDARD FOR EXTINGUISHERS AT ALL EXPOSED LOCATIONS.

4. FIRE EXTINGUISHERS AND CABINETS SHOULD BE LOCATED SO THAT THE TOP OF THE EXTINGUISHER OR CABINET IS NO HIGHER THAN 48" AFF AND THE TOP OF THE EXTINGUISHER OR CABINET HANDLE IS

5. PROVIDE AND INSTALL FIRE EXTINGUISHER SIGNAGE (5"X6") ABOVE EACH FIRE EXTINGUISHER OR CABINET WITHIN THE SCOPE OF THE TENANT IMPROVEMENT. MOUNT AT 84" AFF UNLESS OTHERWISE REQUIRED.

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 LIGHTING AS REQUIRED BY THE **CODE BUILDING DEPARTMENTS**. CONFIRM ACCEPTABILITY OF LOCATIONS WITH THE BUILDING OWNER BEFORE INSTALLATION. CONTRACTOR SHALL PROVIDE AND 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 AND INSTALL ALL SMOKE DETECTORS AND SMOKE DETECTION AS REQUIRED UNDER ARTICLE 9 OF THE IBC. THE INSTALLATION OF THE ABOVE NOTED SYSTEM SHALL INCLUDE THE CONNECTION TO AND/OR MODIFICATION OF THE EXISTING BUILDING SYSTEMS, AS NECESSARY.

7. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

8. FLAMMABLE LIQUIDS SHALL NOT BE PLACED, STORED, OR DISPENSED IN THIS OCCUPANCY EXCEPT AS PROVIDED IN NFPA STANDARD 30 AND THE **2018 INTERNATIONAL FIRE CODE**. PERMIT MAY BE REQUIRED.

9. ALL DRAPES, HANGINGS, CURTAINS, AND ALL OTHER DECORATIVE MATERIAL, INCLUDING CHRISTMAS 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 BY MEANS OF A FLAME RETARDANT SOLUTION OR PROCESS APPROVED BY THE FIRE MARSHAL. 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*.

10. ALL REQUIRED FIRE DOORS SHALL BEAR A LABEL FROM A RECOGNIZED AGENCY SHOWING THE SPECIFIC RATING.

CEILING

1. REFLECTED CEILING PLAN IS FOR THE GENERAL INFORMATION OF THE CONTRACTOR. EXACT LOCATIONS SHOULD BE VERIFIED.

DOOR

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

2. COORDINATE ALL KEYING REQUIREMENTS WITH OWNER. CONTRACTOR SHALL PROVIDE ALL LOCKSET CYLINDERS TO MATCH OWNER STANDARD. CONTRACTOR SHALL RE-KEY ALL DOORS TO MEET TENANT AND OWNER'S REQUIREMENTS.

FINISH AND MATERIALS

1. SUBMIT FINISH SAMPLES TO TENANT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS.

2. INTERSECTION OF SCHEDULED FLOORING MATERIALS ARE TO OCCUR AT CENTERLINE OF DOOR WHEN IN A FULLY CLOSED POSITION UNLESS NOTED OTHERWISE.

3. PROVIDE APPROPRIATE TRANSITION MATERIAL AS REQUIRED WHERE DISSIMILAR FLOORING MATERIALS INTERSECT.

	T	T	T		T
RESPONSIBILITY MATRIX Div. 2 - Existing Conditions - Demolition	OFOI	OFCI	CFOI	CFCI	REMARKS
2.191 Demo Existing Maintenance Facility and Office	+			x	By Allowance
2.191 Demo Existing Lab Building				х	By Allowance
2.206 Demo Existing Paving at Perimeter				х	By Allowance
2.212 Hazardous Materials Testing and Abatement				х	By Allowance
Div. 6 - Finish Carpentry					
6.208 Lobby Reception Desk	<u> </u>			х	
6.208 Billing Office back wall casework				х	
6.208 Paneling at Entry Lobby				х	
6.208 Breakroom upper and lower cabinets				X	
6.208 Copy Room Casework 6.208 Lab storage casework				x	
6.208 Copy Room Casework	+			x	
6.208 Open Office Meeting area video wall casework	+			x	
, s	-				
Div. 10 Specialties					
10.000 Toilet, locker Room, and Janitor Closet Accessories				х	
10.260 Shower Curtains				х	
10.400 Identification Devices	<u> </u>			х	
10.426 Main Building Sign				х	By Allowance
10.520 Fire Extinguishers and Cabinets				х	
10.580 Knox Box	 	-	-	X	Pu Allowanaa
10.605 Window Blinds 10.900 Lockers	+	1	1	X	By Allowance
10.900 Lockers 10.900 Toilet Partitions	+	-	-	x	
10.000 FORGET ALLIUOTIS	+	-	1	^	
Div. 11 - Equipment	+	-	-		
11.000 Appliances (Kitchen and Janitor Closet)	+			х	By Allowance
11.002 Lab Equipment Casework	1	1	1	х	
11.002 Lab Base and Wall Cabinets				х	
11.002 Lab Island				х	
11.002 Lab Storage Shelving				х	
Div. 13 - Special Construction, FF&E, Furniture, Artwork					
13.000 Misc. Office Furniture (chair, file cabinet, etc.)	х				
13.000 Lobby Furniture other than fixed reception desk	Х				
13.000 Cubicle Systems	Х				
13.000 Cubicle System Desks	X				
13.000 Private office desks, cabinets, and chairs 13.000 Office Accessories (whiteboards, etc.)	x				
13.000 Conference Room Desk, chairs, and credenza	x				
13.000 Storage area ("Shed") racking	x				
13.000 Billing office furniture - except fixed back wall casework	-				
13.000 Kitchen Break Room tables, chairs, supplies	х				
13.000 Waste baskets, Floor Mats, desk lamps, etc.	х				
13.000 Misc. FF&E Allowance	х				
Div. 21 - Fire Suppression	<u> </u>				
21.000 Fire Suppression				х	
Div. 22 - Plumbing	 			.,	
22.001 Relocate Power Wash System				X	
22.001 Emergency Eye Wash and deluge shower				X	
Div. 26 - Electrical	+				
26.004 Emergency Generator - new and/or relocated	_			x	
26.005 Connections to Booster Pump	+			x	
·	†				
Div. 27 - Communications	1				
27.001 - Connect data to Booster Pump	х				
27.001 - PLC Systems				х	
27.001 - PLC Network Switches	х				TDS Networks
27.001 - PLC Servers	х				TDS Networks
27.001 - Government Network switches/wifi	х				TDS Networks
27.001 - Government Network UPS	х				TDS Networks
27.001 - Data Room Network Rack	X				TDS Networks
27.001 - Conference Room AV equipment	X	-	-		TDS Networks
27.001 - Desktop Workstations/UPS, Printers, TVs 27.001 - Copper and fiber cable	x				TDS Networks Salish Networks
27.001 - Copper and fiber cable 27.001 - Cable TV equipment and cabling	X	-	-		Salish Networks
27.001 - Cable 1V equipment and cabling 27.001 - Phones, Fax lines	X	-	-		Salish Networks
27.005 - Future Data Conduit	+	 	 	х	Salish Networks
27.001 - Systems Integration	+		<u> </u>	x	Owner Preferred Vendors: TSI, Parametrix
-	1				
Div. 28 - Electronic Safety and Security	1				
28.000 - Security	х				TDS Security
28.000 - Keyboxes, TimeClocks, Key Authorizers	х				TDS Security
20.000 - Reyboxes, TimeClocks, Rey Authorizers				х	TDS Security/ Salish Network Infrastructure
<u> </u>					TDS Security/ Salish Network Services
28.000 - Door Controllers and associated wiring 28.000 - Access Point Card Readers and associated wiring	х				ITDC Consumity
28.000 - Door Controllers and associated wiring 28.000 - Access Point Card Readers and associated wiring	x				TDS Security
28.000 - Door Controllers and associated wiring 28.000 - Access Point Card Readers and associated wiring 28.000 - Exterior Cameras	+				TDS Security
28.000 - Door Controllers and associated wiring 28.000 - Access Point Card Readers and associated wiring 28.000 - Exterior Cameras Div. 32 - Exterior Improvements	+				TDS Security
28.000 - Neyboxes, TimeClocks, Rey Adminizers 28.000 - Door Controllers and associated wiring 28.000 - Access Point Card Readers and associated wiring 28.000 - Exterior Cameras Div. 32 - Exterior Improvements 32.004 - Site Fencing and Gates and modifications to	+			x	TDS Security

PROJECT DATA

PROJECT ADDRESS: TULALIP TRIBES UTILITY BUILDING

3015 MISSION BEACH ROAD TULALIP, WA, 98271

JURISDICTION: SNOHOMISH COUNTY

PARCEL NUMBER: 00616500600100 - 00616500601200

ZONING: TRIBAL

OCCUPANCY CLASSIFICATION: B - OFFICE

TYPE OF CONSTRUCTION: TYPE V-B

SPRINKLERED: NFPA 13

NUMBER OF STORIES: 2

SQ. FT. OF BUILDING: 6,992 SQ.FT.

LEGAL DESCRIPTION

SQ. FT. OF IMPROVEMENT

NE1/4 SEC34 T30N R4E

DESCRIPTION OF WORK

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

6,992 SQ.FT.

DEFERRED SUBMITTALS

- 1. ENGINEERED ROOF TRUSS SHOP DRAWINGS.
- 2. ENGINEERED FLOOR SYSTEM SHOP DRAWINGS. 3. BUILDING SIGNAGE.
- 5. STRUCTURAL DESIGN FOR WASHER SHED AND ASSOCIATED RETAINING WALLS.

4. VENDER DESIGN EXTERIOR STEEL STAIR, LANDING, AND CANOPY.

APPLICABLE CODES

NATIONAL

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 (WAC)

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

VICINITY MAP



RIBES - UTILITY BUILD

3015 MISSION BEACH RC

ISSUE LIST

NORTH

BID ISSUE 03/21/2024

GENERAL NOTES

A0.0

2018 WSEC Compliance Forms for Commercial	Buildings inclu	ıding Group	R2, R3 & R4 over 3	stories and all R	1			Administe	red by: ©2023 N	EEA, All rights reserved
	Project Title		TULALIP	TRIBES - UTIL	ITY BUILDING - 2018 V	VSEC	For Building	Department Use:	Date	e: Jul 13, 2023
Project & Applicant	Project Addi	ress	3015 MISSION BEACH ROAD Marysville, WA 98271						Date	5. Jul 13, 2023
Information	Applicant Na	ame	Andy Longino							
	Applicant Pl	none		425-774-3829						
	Applicant E	mail		andy.longino(@harrisgroup.com					
Fo	or questions abo	ut this report	, contact WSEC Com	nmercial Technic	al Support at 360-539-530	00 or via email a	t com.techsup	port@waenergycodes.com		
General Occupancy		All Comm	ercial	General Build	ing Use Type	Labora	atory	Building Cond. Floor Area		7,263
		New	Building			A 14 4		Project Cond. Floor Area		7,236
General Project Types	New Build		ldition	Multiple Zone	e Systems & Equipment	Alteration Mechanical Scope		Floors Above Grade		2
		Mech	nanical Scope			Wicchamear Se	орс	Compliance Method	Complian	nce Method 1 - General
Mechanical Project Description	BUILDING IS FULLY CONDITIONED UTILIZING SPLIT SYSTEM HEAT PUMP FOR HEATING AND COOLING ALONG WITH DOAS FOR VENTILATION AND EXHAUST, DOAS INCLUDES ELECTRIC DUCT HEATERS FOR TEMPERING THE OSA. BUILDING ALSO INCLUDES (3) EXHAUST FANS CONNECTED TO FUME HOODS WITH (1) SUPPLY AIR FAN WITH A DUCT HEATER TO TEMPER MAKE UP AIR AT ROOM 105 LABORATORY. AUXILIARY SPACES INCLUDE ELECTRIC WALL HEATERS FOR FREE PROTECTION.									IE HOODS WITH (1)
_			1							
Proj Mechanical Compliance Tyj			Mechanica	al Scope	Economizer Exception(s) Applied?	DOAS Ver Provid		Higher Equipm Efficiency Option A		Equipment Efficiency Compliance Verification

	Mechanical Compliance Scope and Method		Type Type	Mechanical S	cope	Exception(s) Applied? DOAS Ventilation Provided?		Ef	Higher Equiciency Opti	ion Applied?		Compliance Verification	
	Scope and Method		New Building	Multiple Zone Sy Equipmen		Yes	Yes	s		NA	Λ		COMPLIES
Additional Eff Credits Includ							Dedicated or	utside air syste	m (DOAS)	option			
Does building DOAS?	g include occupancy classifica	tions requiring		No		Does project include DOAS equipment?							Yes
Based on proj	ject scope do TSPR requirem	ents apply?		No	No Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?						No		
Scope & Sp	pace Conditioning	NEW BU	JILDING - MU	LTIPLE ZONE	SYSTEMS &	EQUIPME	NT			Comp	liance Veri	ificatio	n COMPLIES
M 14 1 7	e Air Systems Category - Hea	t pump, unitary											
Multiple Zone	erm systems category from	у разыр, англагу											
	Summary Information												
	Summary Information		ilation Standard			ntilation · Source	Paired with DO)AS	Ventila	ion energy r	recovery		Energy Recovery Efficiency (%)
Air Systems S	Summary Information Supply Airflow Control	Vent		C	FM Air		Paired with DO)AS		ion energy r 403.5 Energy			
Air Systems S System ID CU	Summary Information Supply Airflow Control	Vent	ilation Standard	C	FM Air	Source	Paired with DO	DAS					Efficiency (%)
Air Systems S System ID CU Air Systems &	Summary Information Supply Airflow Control J-1 Constant volume	Vent	ilation Standard	C	FM Air	er System tion C	Paired with DO ombined Efficiency	Proposed	Yes per C	403.5 Energy		PL Units	Efficiency (%) 61
Air Systems S System ID CU Air Systems & System/	Summary Information Supply Airflow Control J-1 Constant volume & Equipment - Cooling	Vent IMC Mul	ilation Standard tiple Zones Ventilat Cooling Capacity	ion C	FM Air 680 Other	er System tion C	ombined Efficiency	Proposed	Yes per C	403.5 Energy	y Recovery posed Part		Efficiency (%) 61 Efficiency Compliance
Air Systems S System ID CU Air Systems & System/ Equip ID CU-1	Summary Information Supply Airflow Control J-1 Constant volume & Equipment - Cooling Cooling System/Equip Type Heat pump, air cooled	Vent IMC Mult	ilation Standard tiple Zones Ventilat Cooling Capacity per item (Btu/h)	ion C	FM Air 580 Otho Econo Excep Multiplier (FL o	er System tion C	ombined Efficiency	Proposed 10) Effici	Yes per C	403.5 Energy CE Propunits Load	y Recovery posed Part I Efficiency	Units	Efficiency (%) 61 Efficiency Compliance Verification
Air Systems S System ID CU Air Systems & System/ Equip ID CU-1 Air Systems & System	Summary Information Supply Airflow Control J-1 Constant volume & Equipment - Cooling Cooling System/Equip Type	Vent IMC Mult	ilation Standard tiple Zones Ventilat Cooling Capacity per item (Btu/h) 168,000	ion C	FM Ain 80 Othe Econo Except Multiplier (FL and 1.0)	er System tion C & PL) Mul	ombined Efficiency tiplier (AEC & Econ 1	Proposed 10) Effici	Yes per Cooling lency .8	CE Propunits Load	y Recovery posed Part I Efficiency	Units IEER	Efficiency (%) 61 Efficiency Compliance Verification

Heating Section/Auxiliary Heating Type: Electric resistance (or None)	Economizer Compliance Method: Applying air-side economizer exception
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	

Location In Project Documents - Plan/Detail #

Air Systems & Equipment Details

System ID Area(s) Served

CU-1 IST AND 2ND FLOORS

ENVELO	PE COMPL	IANC	E SUMMARY	7									
2018 WSEC Cor	npliance Forms for C	ommercial	Buildings including Gro	oup R2,	2, R3 & R4 over 3 stories and all	R1				Adminis	ered by: ©202	23 NEEA, All rights reserv	
			Project Title		Tulalip New Utilities	Building - 2018 W	SEC	For Building	Departmen	nt Use:	Da	te: Aug 04, 202	
Project & Applic	eant		Project Address			n Beach Road WA 98271					Da	Aug 04, 202	
Information			Applicant Name			Riehl							
			Applicant Phone			84-5121							
			Applicant Email		, ,	heitarch.com		<u> </u>					
		Fo	r questions about this re	port, co	ontact WSEC Commercial Techr	nical Support at 36	0-539-5300 or v	ia email at cor	n.techsupp	ort@waenergycodes.com			
General Occupa	ncy		All Commercial	Gener	eral Building Use Type(s)	Office	Office, Government/Municipal Laboratory		Building Cond. Floor Area			6,992	
									Project C	Cond. Floor Area		6,992	
Project Scope			New Building	Space	e Conditioning Categories		Fully Condition	ned	Floors Al	bove Grade		2	
										nce Method		Compliance Method 1 - General	
Envelope Projec	t Description		A 2-story building of	6,992 s	of floor area, housing a waste wat	ter testing lab and		ublic utility. B d roof.	uilding is w	vood-framed, metal clad, wit	h aluminum ste	orefront type windows, an	
Envelope Compliance	Scope	Space	Conditioning Categor	ry	Compliance Method	WWR/SRR per Category	UA Calci	ulation Adjust	ment	Fenestration Alterna	tes C	Compliance Verification	
Scope and Method	New Building		Fully Conditioned		Prescriptive	9.19% / %	N	one selected		No alternates selecte	d	COMPLIES	
Air Barrier Testing	Air barrier	testing incl	uded in project scope		Air Barrier Com	ments							

Project Title Tulali	p New Utilities Building - 2018 WSE	C				Date	Aug 04, 202	3
Scope & Space Conditioning	new building - fu	LLY CONDITIONED		C	ompliance Verifi	ication COM	PLIES	
Window-to-wall Ratio	9.19% Skylight	t-to-roof-ratio	%	Vertical Fenestration Alto	ical Fenestration Alternate			
Opaque Envelope Assemblies								
				In	sulation R-Values			
Roof/Ceiling	Location in Documents	Assembly ID	Assemb Locatio	' I Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Are (SF)
Attic and other	A3.03 and A9.20	Roof	Exterio	r R-49	R-49.0 (< 0.04%)		U-0.02	3,711
	U-Factor Source: Computed			U-Factor Source De	scription: Inverse of l	R-value of insula	tion only	
	Roof Framing Type (Standard, Advanced): S	tandard		Roof Framing Mater	rial: Wood-framed			
	Ceiling/Attic Venting: Vented			Is this assembly exte	erior or interior?: Exte	erior		
Walls	Location in Documents	Assembly ID	Assemb Locatio	· I Cavily	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Are (SF)
Wood-framed and other - Commercial	A3.01, A3.02, and Wall Schedule, Sheet A9.10	W! and W2	Exterio	r R-21	R-21.0 (< 0.04%)		U-0.044	7,383
	Which insulation code target does wall comp	ly with?: R-21 Cavity + Intermediate Framing		U-Factor Source: Co	omputed		·	
	U-Factor Source Description: Inverse of accu	imulated R values of wall components - not ac	counting for metal sig	ding Wall Framing Type	(Standard, Inter., Adv	anced): Intermed	liate	
	Framing Depth: 2x6	·		Framing Spacing: 16	5"			

	Is this assembly exterior or interior?: Exterior	or							
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF	
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	260	
	Slab Insulation Method: 2 ft horizontal (no s	lab edge insulation)	•	F-Factor Source: WSE	C Appendix A	•	•	•	
	F-Factor Source Description: Table A106.1								
Fenestration & Opaque Door Ass	semblies								
				Insu	lation R-Values				
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)	
Swinging	A4.0 and A9.3	Exterior				U-0.37	126		
	What percentage of this opaque door is glazi	ng?: 50% or less	U-Factor Source: WSEC Appendix A						
	U-Factor Source Description:		Is this assembly exterior or interior?: Exterior						
	Is this a public entrance door?: No								
Roll-up	A4.0 and A9.30	RO	Exterior	R-4.7			U-0.21	168	
	U-Factor Source: WSEC Appendix A		U-Factor Source Descr	ription:	•				
	Is this assembly exterior or interior?: Exterior	or							
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)	
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-0.38	523	
	U-Factor & SHGC Source: Other Source			U-Factor Source Description: specified max values					
	Is this assembly exterior or interior?: Exterior	or							
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-0.38	168	
	U-Factor & SHGC Source: Other Source			U-Factor Source Description: specified max values					
	Is this assembly exterior or interior?: Exterior	or							
All other fenestration types	A4.0 and A9.4	South/East/West Facing	PF < 0.2	SHGC-0.35	U-0.30	86			
	U-Factor & SHGC Source: WSEC Appendix	x A		U-Factor Source Descr	ription:				
	Is this assembly exterior or interior?: Exterior								

Project & Applicant		Buildings includin	g Group R2, R3	& R4 over 3 stories and all R	.1				Admini	stered by: ©202	23 NEEA	, All rights reserved
Project & Applicant		Project Title		Tulalip Tribes - Utility		EC	For Building De	partment Use:			ate:	Jul 14, 2023
roject & rippiicum		Project Address		3015 MISSION Marysville,	BEACH ROAD , WA 98271							
Information		Applicant Name		Mohammad (
		Applicant Phone		206-47			_					
	Fo	Applicant Emails or questions about the		mohammad.azeem et WSEC Commercial Technic		9-5300 or via	l email at com.tec	hsupport@wae	nergycodes.com			
C10			_									262
General Occupancy		All Co	ommercial	General Building Use	Type		Utility/Equip, Oth		Cond. Floor Area ond. Floor Area	1		,263
General Project Types		New Building	New Building of Addition	Interior Lighti		I			ove Grade			2
.			Lighting Scope	Exterior Lighti	ing Lighting	Scope		Complian	nce Method	Comp	liance M	ethod 1 - General
Lighting Project Description												
		Project Type		erior / Exterior	Luminaire Replacer	ment Scope	Compliance Met	hod	LPA Calculat		Comi	oliance Verification
Lighting Compliance and Method	Scope	New Building	-	des both interior & parking) terior Lighting	Bumman'e Replacei	ment scope	Building area		Adjustmen			COMPLIES
and Method		New Building		terior Lighting			Dunding area				COMPLIES	
Additional Efficien		Reduced lighting		eredit - 10% lower than LPA								
Options Included	1											
Project Title Tula	lip Tribes - U	Jtility Building	- 2018 WSE	C						Date .	Jul 14,	2023
Lighting Power Calculatio	n	NEW BUILD	ING - INTEI	RIOR LIGHTING					Compliance V	Verification	COMP	LIES
Compliance Method			Building area		LPA Calculation A	djustment				LPA	A x 0.9	
				Interior Lighting	Power Allowance - F	Building Area	1					
Building Areas	Gross	Interior Area (SF		LPA (Watts/SF)	Total Watt	ts Allowed		Total Propose				Status by
Office	31033	6,880		0.64	(SF x LP					Building Area COMPLIES		
Office		0,000			,			3,439			COMPI	-11-0
				Proposed	Lighting Power Der	nsity						Total Watts
Fixture Type/Application	Fix	ture ID	Building Are	ea New or Existing-to-Remain	Quantity of F Lumin	ixtures, CLE naires (#F)	os or Fixt	Vatts per ure, CLD or naire (WpF)	Total Linear Feet (LF)	Watts per I Foot (W _I		Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures												(ET A ((PET)
Troffer		ffer, 4Ft	Office	New		51		49				2,499
Troffer Wall-mounted		ffer, 2FT Interior/Exterior	Office Office	New New		2		49 39				882 78
wan mounted	SCORCE,	merioi/Exterioi	Office	Tiew				37				70
Project Title Tula	lip Tribes - U	Itility Building	- 2018 WSE	<u>C</u>						Date .	Jul 14,	2023
Proposed Fixtures Details		NEW BUILD	ING - INTE	RIOR LIGHTING								
Fixture Type/Applicati	on	Fixt	ure ID	Location i	n Documents	Lamp	Туре	Building A	rea	Exist	New or	
										Zaist	· ·	
Individual Fixtures	Troffer		fer, 4Ft	Plan I	Drawings	LE		Office		·-1.4 - C	New	
Individual Fixtures		rturo Dogomintino					Are th	ese fixtures loc	ated within a dayl	ight zone?:		
Individual Fixtures		xture Description:										
Individual Fixtures	Fiz	•		Seed on Bold			1					
Individual Fixtures	Fiz	these fixtures requ		ication lighting controls?:	drawings -	IF	D.D.	Office			New	
Individual Fixtures	Fiz Do Troffer	these fixtures requ	tire specific appl fer, 2FT		lrawings	LE		Office ese fixtures loc	ated within a dayl	ight zone?:	New	
	Fiz Do Troffer Fiz Do	o these fixtures requ Trof kture Description: o these fixtures requ	fer, 2FT	Plan of tication lighting controls?:			Are th	ese fixtures loc	ated within a dayl	ight zone?:		
	Fix Do Troffer Fix Do all-mounted	o these fixtures requesture Description: these fixtures requested these fixtures requested.	fer, 2FT	Plan of tication lighting controls?:	drawings Drawings	LE	Are th	ese fixtures loc			New New	
	Fix Do Troffer Fix Do all-mounted Fix	o these fixtures requ Trof kture Description: o these fixtures requ SCONCE, I kture Description:	fer, 2FT nire specific appl nterior/Exterior	Plan of tication lighting controls?:			Are th	ese fixtures loc	ated within a dayl			
W	Troffer Fix Do all-mounted Fix Do all-mounted	o these fixtures requestrate Description: o these fixtures requestrate SCONCE, Instructure Description: o these fixtures requestrate of these fixtures requestrates and the second sec	fer, 2FT tire specific appl nterior/Exterior tire specific appl	Plan of Plan of Plan of Plan of Plan of Plan I Plan			Are th	ese fixtures loc		ight zone?:	New	2023
W	Troffer Fix Do all-mounted Fix Do Clip Tribes - U	o these fixtures requestrate Description: o these fixtures requestrate SCONCE, Instruce Description: o these fixtures requestrate Description:	fer, 2FT irre specific appl interior/Exterior irre specific appl - 2018 WSE(Plan of Plan of Plan of Plan of Plan of Plan I Plan			Are th	ese fixtures loc		ight zone?:	New Jul 14,	
Project Title Tula	Troffer Fix Do all-mounted Fix Do Clip Tribes - U	o these fixtures requestrate Description: o these fixtures requestrate SCONCE, Instruce Description: o these fixtures requestrate Description:	fer, 2FT irre specific appl interior/Exterior irre specific appl - 2018 WSE(Plan of Plan of Plan of Plan of Plan of Plan of Plan I Pla		LE	Are th	ese fixtures loc	ated within a dayl	ight zone?:	New Jul 14,	

	waii-mounted	SCONCE, Interior/Exterior	r	Pian Drawi	ngs	LED	Office		New	
		Fixture Description:	·				Are these fixtures located	d within a daylight zone?:		
		Do these fixtures require specific ap	plication lighting	controls?:						
Project Title	Tulalip Tribes	- Utility Building - 2018 WSF	EC					Date	Jul 14, 2	023
Lighting Power Calc	culation	NEW BUILDING - EXT	ERIOR LIGH	ITING			Co	ompliance Verificatio	n COMPL	IES
Exterior Lighting Zone				ZONE 2		Base Site Allov	vance			400
			Ex	terior Tradable I	ighting Power	Allowance				
Tradable Surf	face	Tradable Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or	Total Tradable Proposed Watts		Compliance Status

		Ex	terior Tradable l	Lighting Power	Allowance			
Tradable Surface	Tradable Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Tradable Proposed Watts	Tradable Compliance Status
Building entrances and exits	Pedestrian entrances & exits			40	14	560		
				Ba	se Site Allowance	400		
					Totals	960	282	COMPLIES

	Proposed Tradable Lighting Power Density										
Fixture Type	Fixture ID	Tradable Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)				
Individual Fixtures											
Wall-mounted	SCONCE, EXTERIOR	Building entrances and exits - Pedestrian entrances & exits	6	47			282				
				•	Т	radable Proposed Total	282				



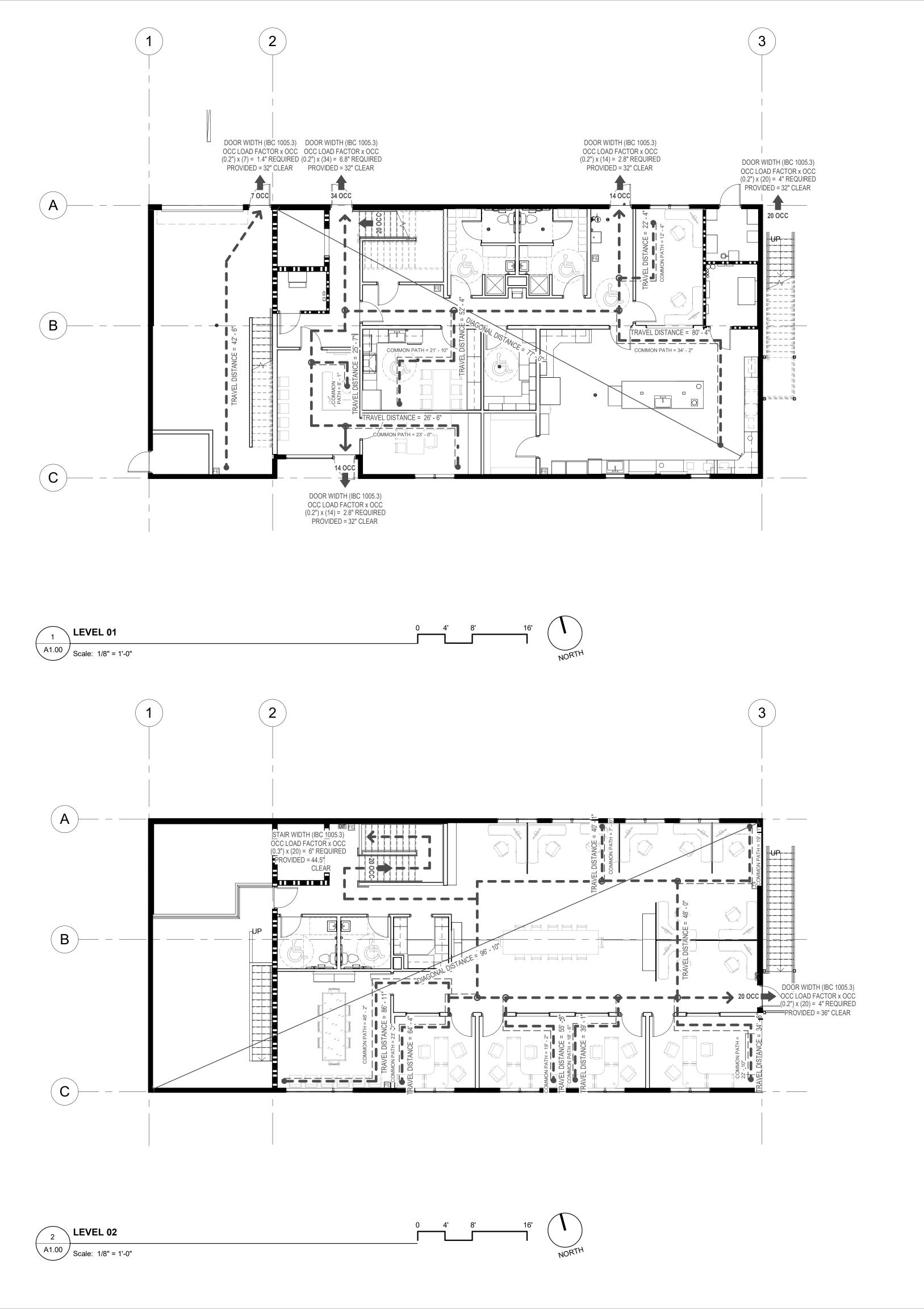
TULALIP TRIBES - 3015 MISSION BEACH R TULALIP, WA 98271

ISSUE LIST BID ISSUE

03/21/2024

ENERGY CODE COMPLIANCE

A0.02



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:

B- OFFICE

COMMON PATH OF EGRESS (IBC TABLE 1006.2.1): EXIT ACCESS TRAVEL DISTANCE (IBC TABLE

DEAD END CORRIDOR (IBC 1020.4): NUMBER OF EXITS (IBC 1006):

75' MAX 200' MAX 2 REQUIRED

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>): LAVATORIES - MALE (<u>PER IBC TABLE 2902.1</u>): LAVATORIES - FEMALE (<u>PER IBC TABLE 2902.1</u>): DRINKING FOUNTAINS (<u>PER IBC TABLE 2902.1</u>): SERVICE SINK (<u>PER IBC TABLE 2902.1</u>):

LEGEND - CODE PLAN

NO WORK THIS AREA EXISTING CONSTRUCTION TO REMAIN NEW WALL CONSTRUCTION LONGEST COMMON PATH OF EGRESS TRAVEL

FURTHEST POINT OF ORIGIN

COMMON PATH JUNCTURE

LONGEST EXIT ACCESS TRAVEL DISTANCE DEAD END CORRIDOR NEW PARTIAL HEIGHT WALL CONSTRUCTION ─ DIAGONAL DISTANCE

1-HOUR RATED WALL FIRE EXTINGUISHER

INTERNALLY ILLUMINATED EXIT SIGN

0 OCC INTERNALLY ILLUMINATED EXIT SIGN WITH HORN/STROBE

OCCUPANCY COUNT AT EXIT - ROOM NAME ROOM NAME OCCUPANCY
A-2 100 SF SQUARE FOOTAGE 15 7 OCCUPANT COUNT
LOAD FACTOR

ISSUE LIST BID ISSUE 03/21/2024

CODE PLAN

A1.00

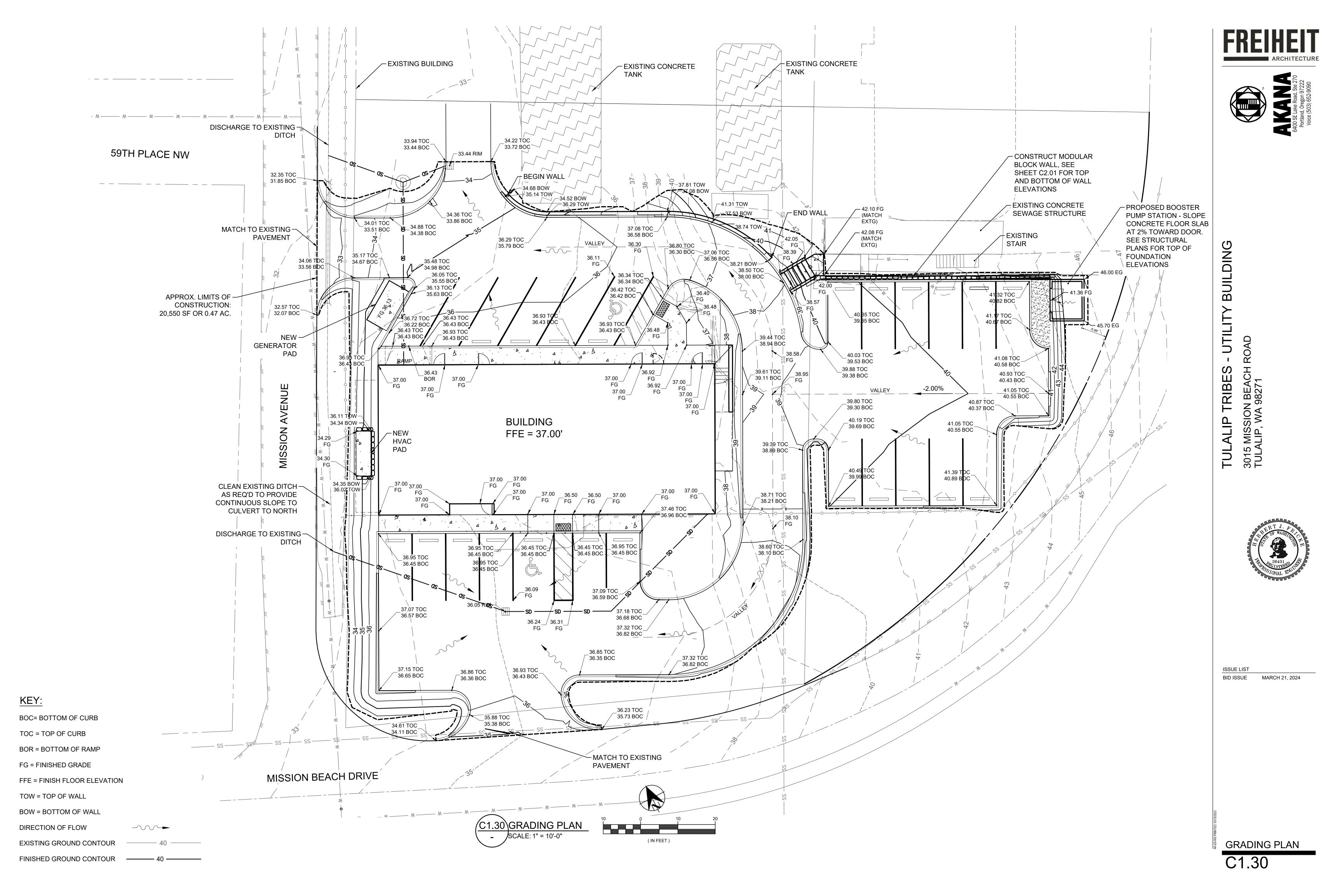


ULALIP TRIBES - UTILITY BUILDIN



BID ISSUE MARCH 21, 2024

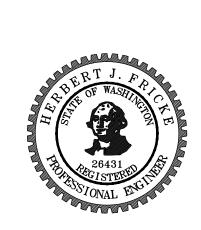
SITE PLAN







TULALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD



BID ISSUE MARCH 21, 2024

EROSION AND SEDIMENT CONTROL PLAN

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.

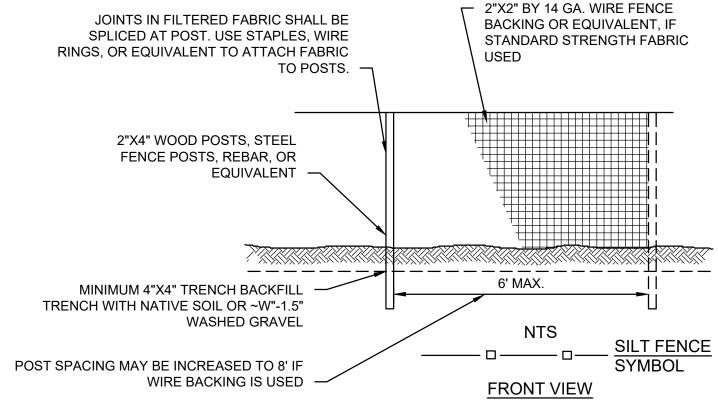
GRAB TENSILE ELONGATION (ASTM D-4632) = 30% MAX.

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

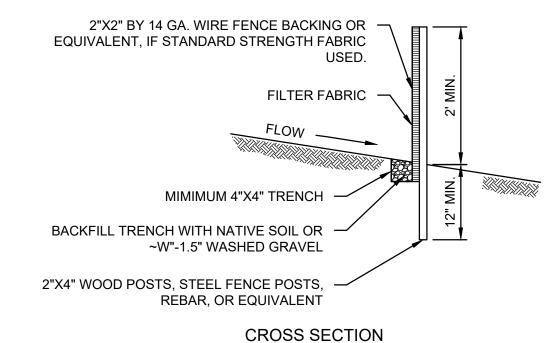
- 3. STANDARD STRENGTH FABRIC REQUIRES WIRE BACKING TO INCREASE THE STRENGTH OF THE FENCE. WIRE BACKING OR CLOSER POST SPACING MAY BE REQUIRED FOR EXTRA STRENGTH FABRIC IF FIELD PERFORMANCE WARRENTS A STRONGER FENCE.
- 4. WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.

MAINTENANCE STANDARDS:

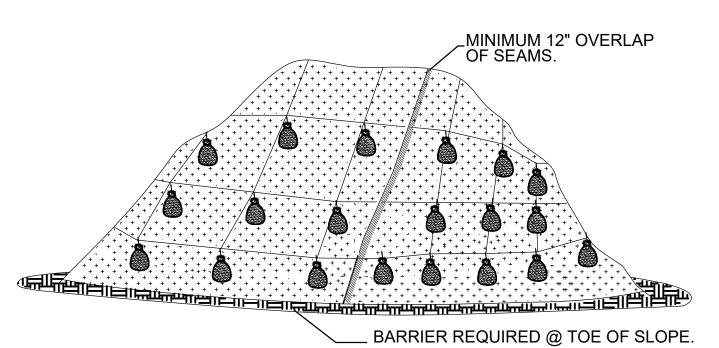
- 1. ANY DANAGE SHALL BE REPAIRED IMMEDIATELY.
- 2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- 3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN 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.



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

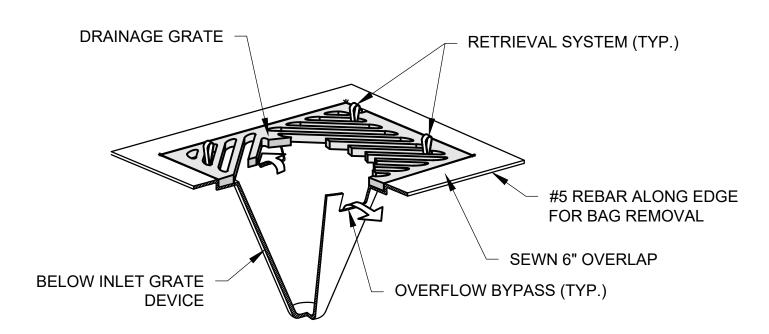






- 1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
- 2. BARRIER REQUIRED @ TOE OF STOCK PILE.
- 3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS

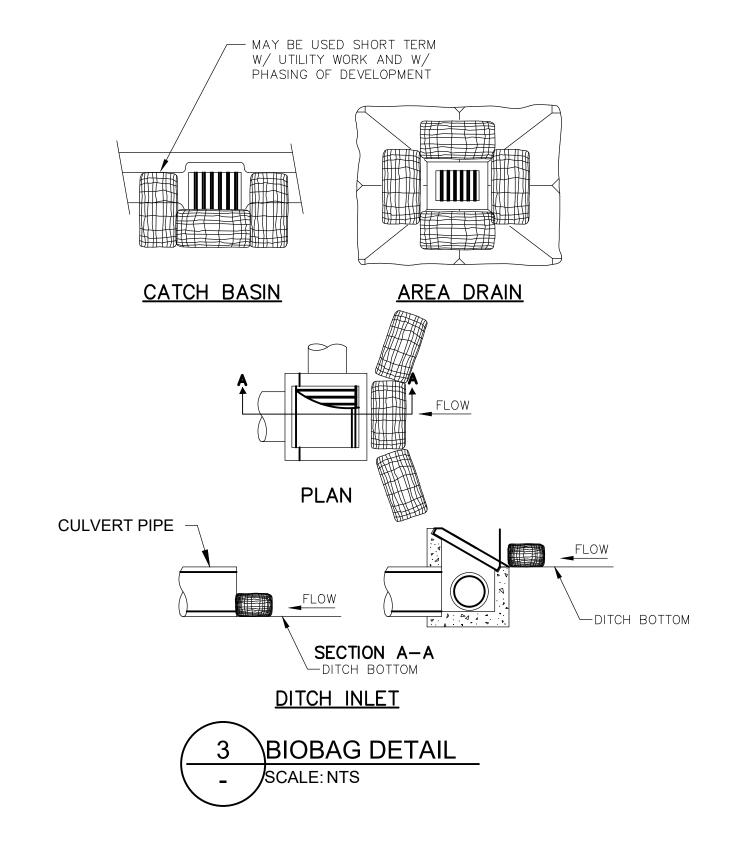
TEMPORARY STOCKPILE SLOPE STABILIZATION SCALE: NTS



NOTES:

- INSTALL ACCORDING TO THE PLANS, SPECIAL PROVISIONS, AND
 - MANUFACTURER RECOMMENDATIONS.
- 2. INSPECT INSERTS TO ENSURE FLOW THROUGH THE FILTER MEDIA. CLEAN OR REPLACE INSERT AS NEEDED









 \Box TRIB

ISSUE LIST BID ISSUE MARCH 21, 2024

EROSION AND CONTROL NOTES AND DETAILS

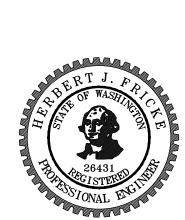




ILIP TRIBES - UTILITY BUIL

5 MISS ALIP,

3015 TUL,



BID ISSUE MARCH 21, 2024

UTILITY PLAN

DETAILS

C2.00

(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

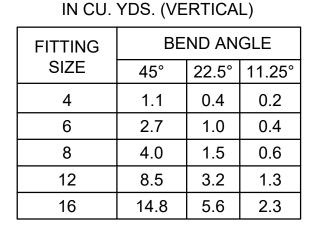
VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.

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

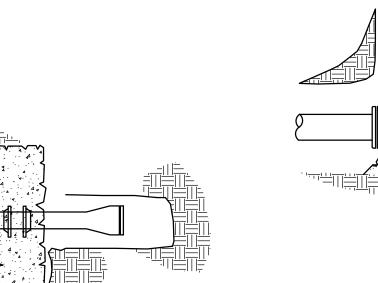
2) CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.

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.

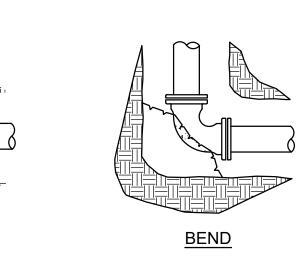
5) PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHENE SHEETING SEE NOTE 3.



VOLUME OF THRUST BLOCK

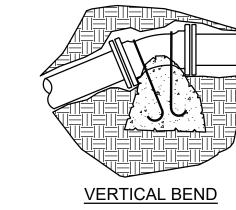


TEE



THRUST BLOCK DETAIL

N.T.S.



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

SADDLE

TRAPPED CATCH BASIN DETAIL

2'-4" SQ. ---

BASIN WELDED 10 GA. MILD

OUTLET STUB: FOR NO HUB

REQUIRED FOR INDICATED

GRATE: WELDED STEEL DROP IN BAR GRATE (ASTM A36)

CROSS BARS: ½" X 2" @ 2" O/C

WITH ASPHALTIC PAINT.

CONNECTOR. SIZE AS

PIPE. (SEE PLAN)

END BARS: ½" X 2"

CAPACITY

WASHINGTON STATE

STANDARD ADA

12" x 24"

12" x 6"

(SOUTH SIDE ONLY)

— HANDICAP/ VAN **ACCESSIBLE** PARKING SIGNS

BIKE STRAPS: 1/8" X 1"

16,000 LB UNIFORM LOAD

STEEL, COATED ALL SURFACES

BAR GRATE

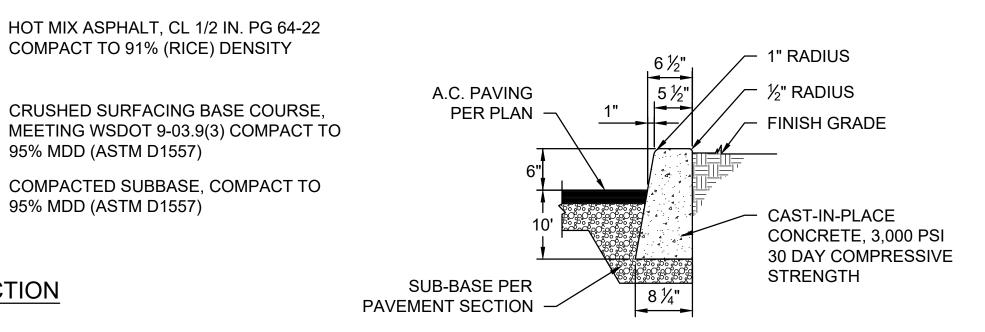
N.T.S.

2'-5" SQ. ——

PLAN VIEW

2'-0"

SECTION VIEW



STANDARD VERTICAL CURB

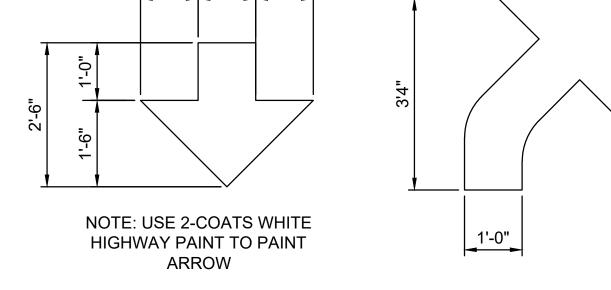
RESERVED

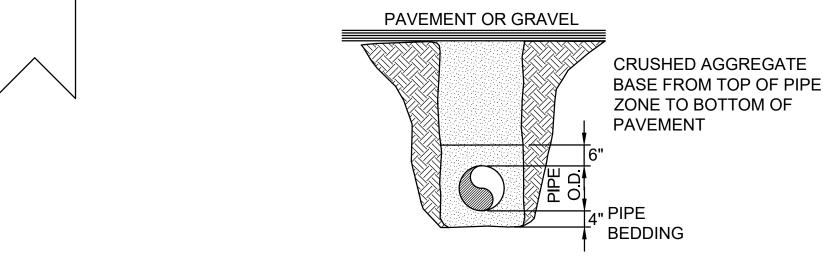
STATE DISABLED PARKING PERMIT

REQUIRED

VAN

ACCESSIBLE

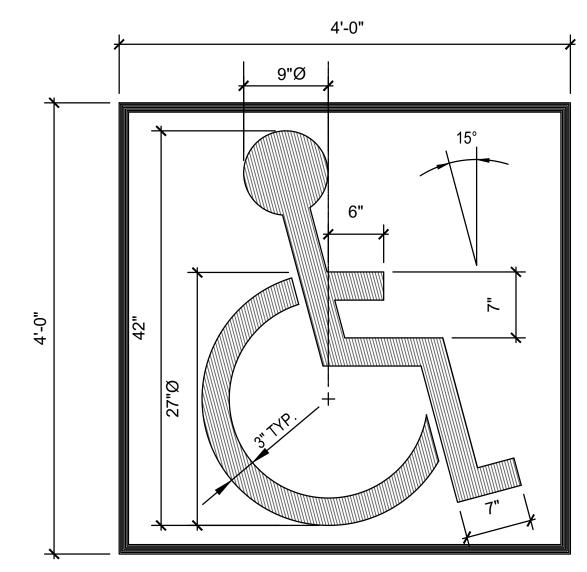




TRENCH BACKFILL ABOVE THE PIPE ZONE

N.T.S.

TRAFFIC ARROW N.T.S.



I	NTERNATIONAL SYMBOL OF ACCESSIBILITY

1. USE WHITE PAINT FOR SYMBOL ON BLUE PAINTED BACKGROUND

NOTE:

ACCESSIBLE PARKING SIGN MOUNTED TO EXTERIOR WALL OF BUILDING, BOTTOM EDGE OF SIGN SHALL BE 60" ABOVE FINISHED GRADE -CONCRETE 9' AT NORTH −2' x 4' PARKING LOT TRUNCATED 11' AT SOUTH DOME PARKING LOT DETECTIBLE WARNING SURFACE -ACCESS AISLE -HATCH LINES AT 36 INCHES ON CENTER -4" WIDE WHITE PAINT STRIPES (TYP) ACCESSIBLE NOTE: PARKING SYMBOL

N.T.S.

SURFACE SLOPES SHALL NOT

EXCEED 2% IN ANY DIRECTION.

MANHOLE FRAME & COVER

─ 24" ID **─**

1' MIN.

FLOW

BELOW

2' MIN. SUMP

— 48"|DIA. MIN. —

SEDIMENTATION MANHOLE DETAIL

N.T.S.

PAVEMENT STRUCTURAL SECTION

FLOW

PRECAST ADJUSTMENT RING

REMOVABLE TEE

REQUIRED FOR

→ FLOW

HOT MIX ASPHALT, CL 1/2 IN. PG 64-22 COMPACT TO 91% (RICE) DENSITY

CRUSHED SURFACING BASE COURSE,

COMPACTED SUBBASE, COMPACT TO

95% MDD (ASTM D1557)

95% MDD (ASTM D1557)

MAINTENANCE.

8" CPE

I.E. ELEV. (SEE PLAN)

USE AT LEAST ONE BUT

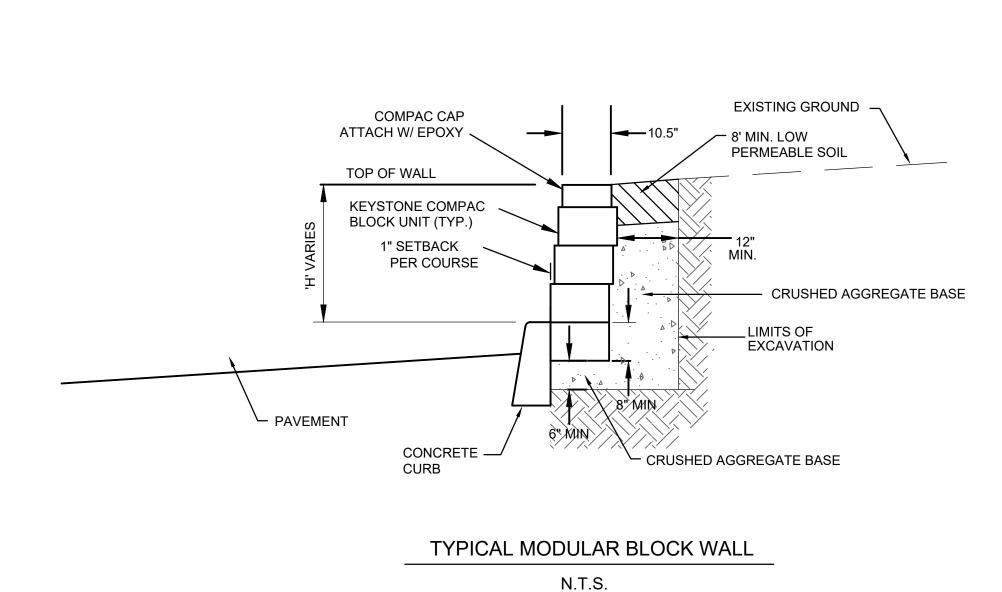
NEVER MORE THAN 12"

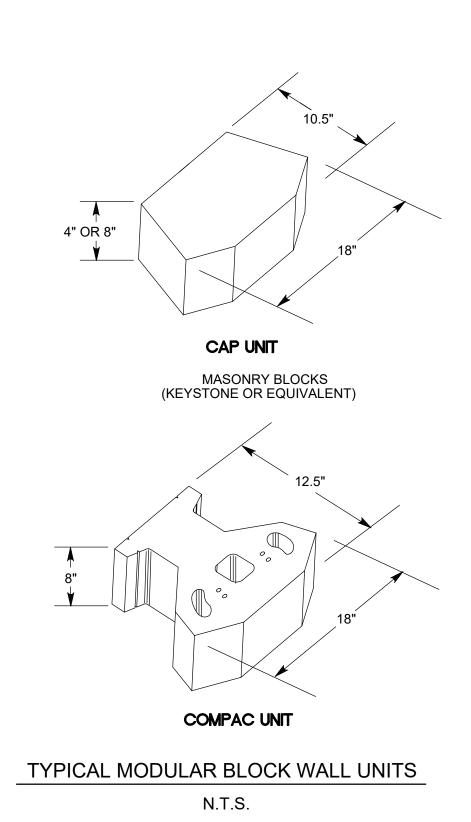
ACCESSIBLE PARKING SIGN N.T.S.

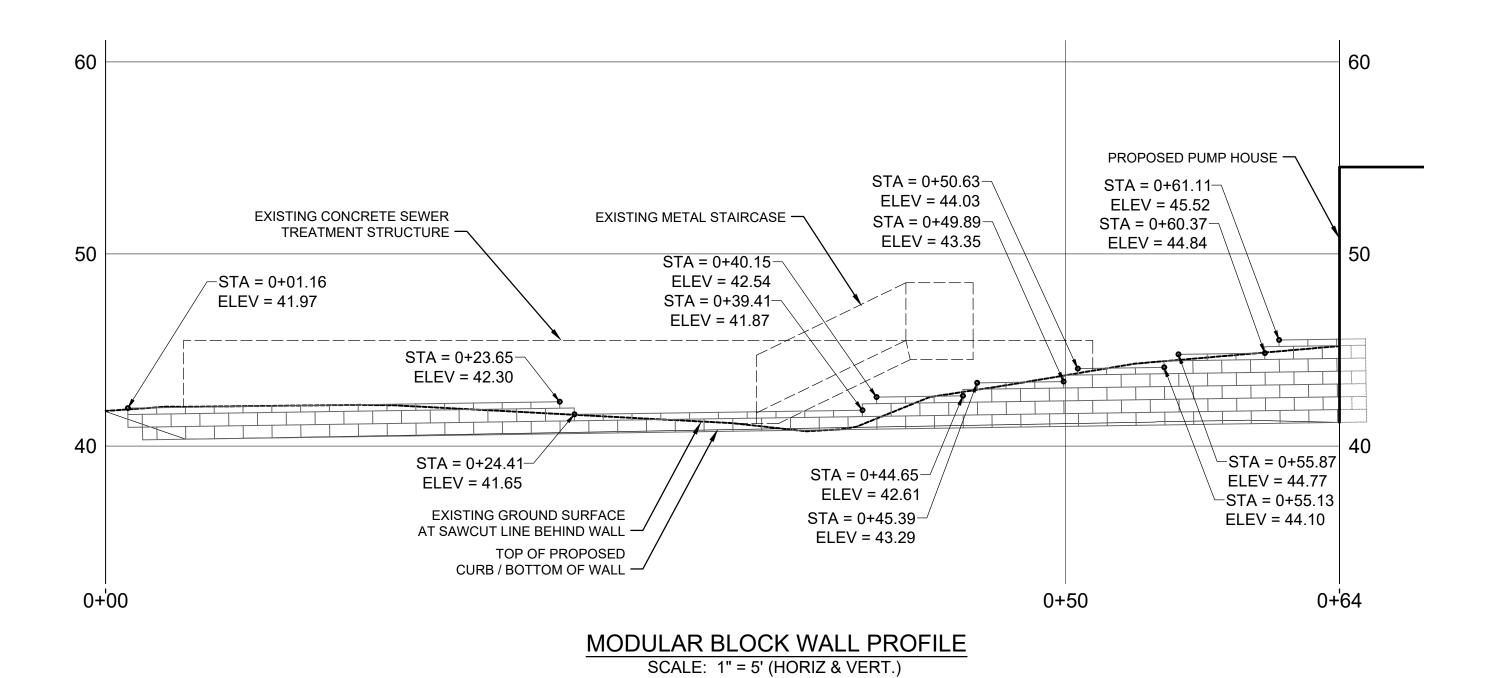
FINISHED GRADE

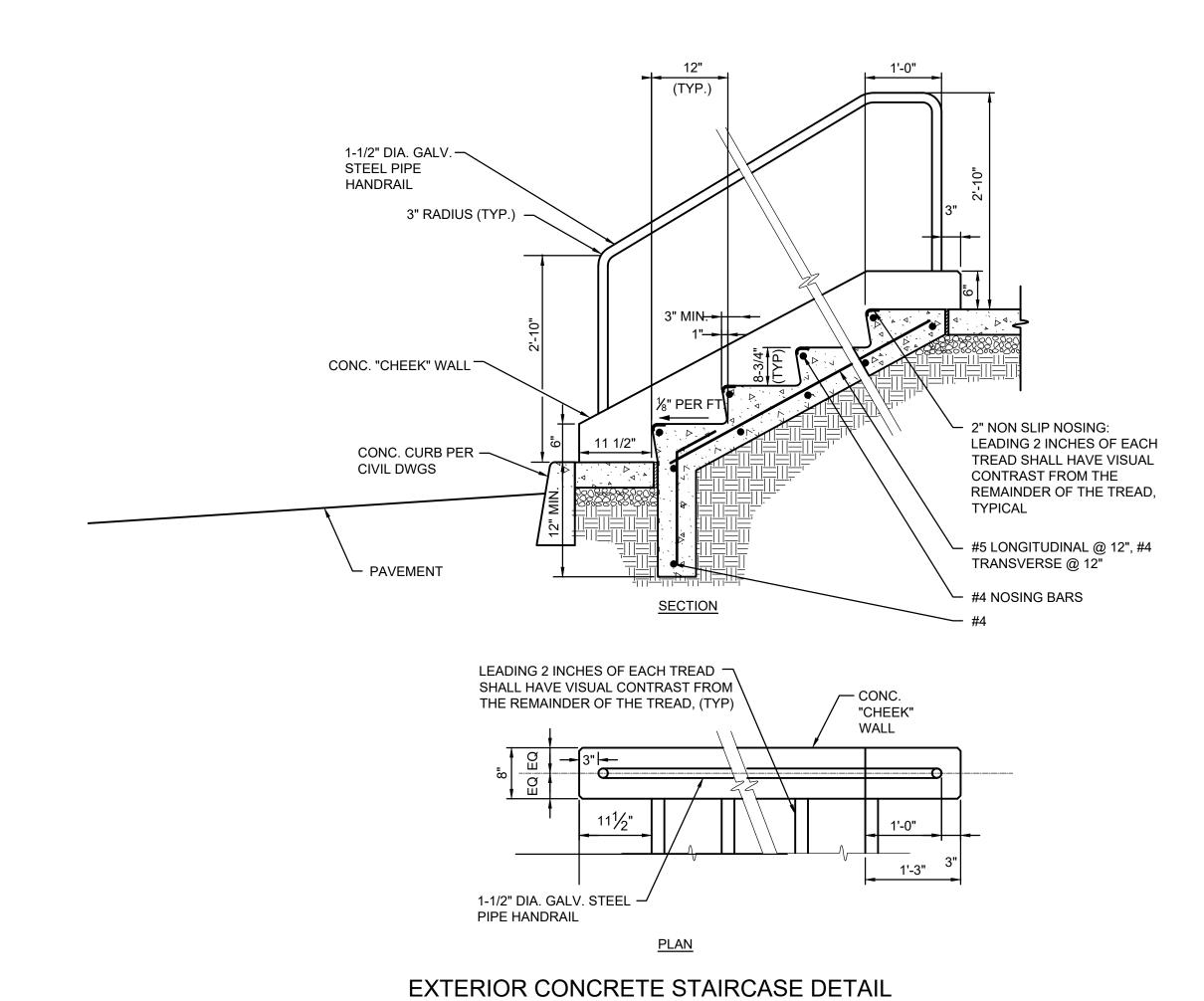
ACCESSIBLE PARKING SYMBOL

ACCESSIBLE PARKING SPACE MARKINGS





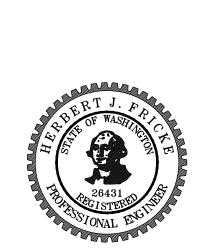




N.T.S.

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

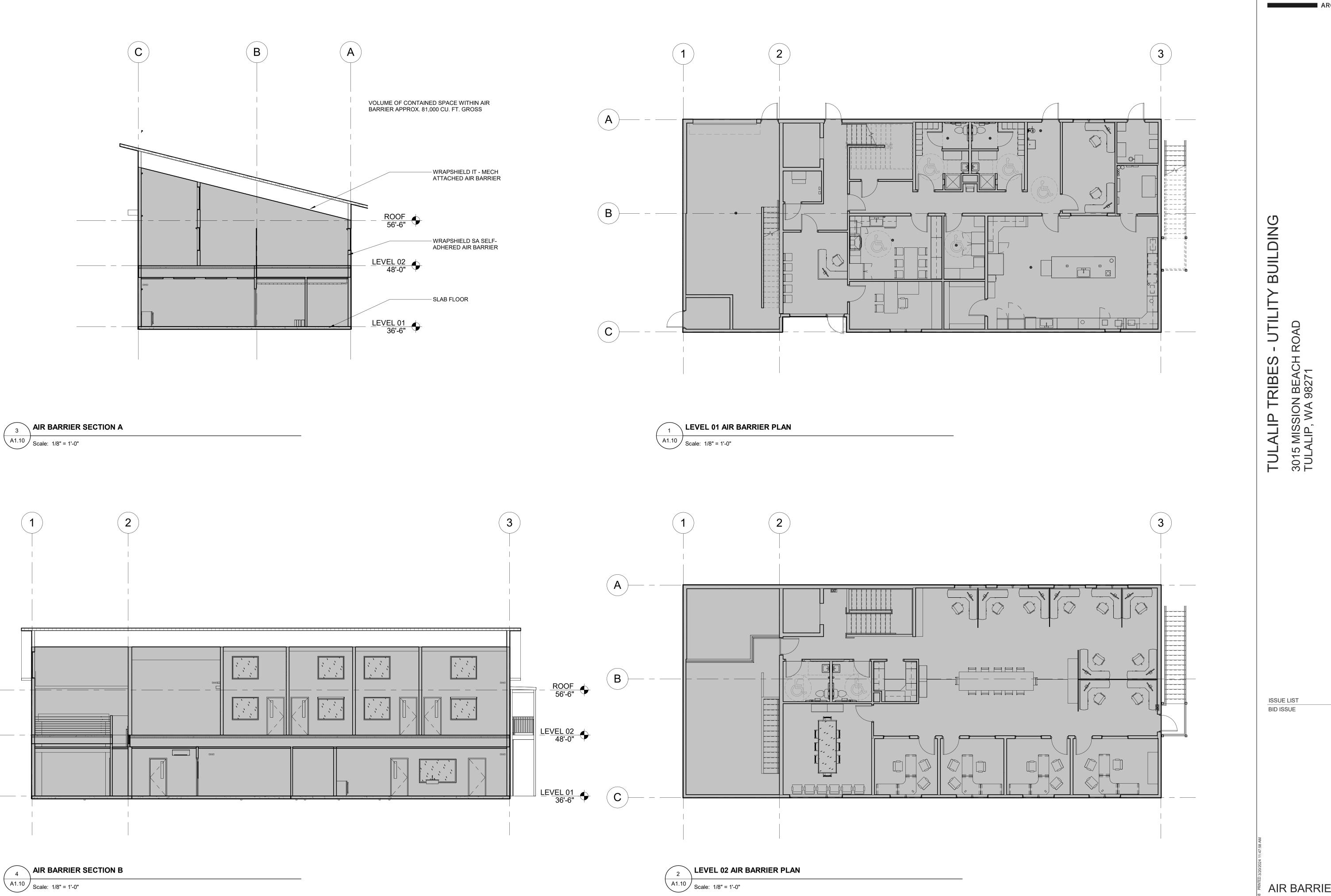
BUILDING



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DETAILS

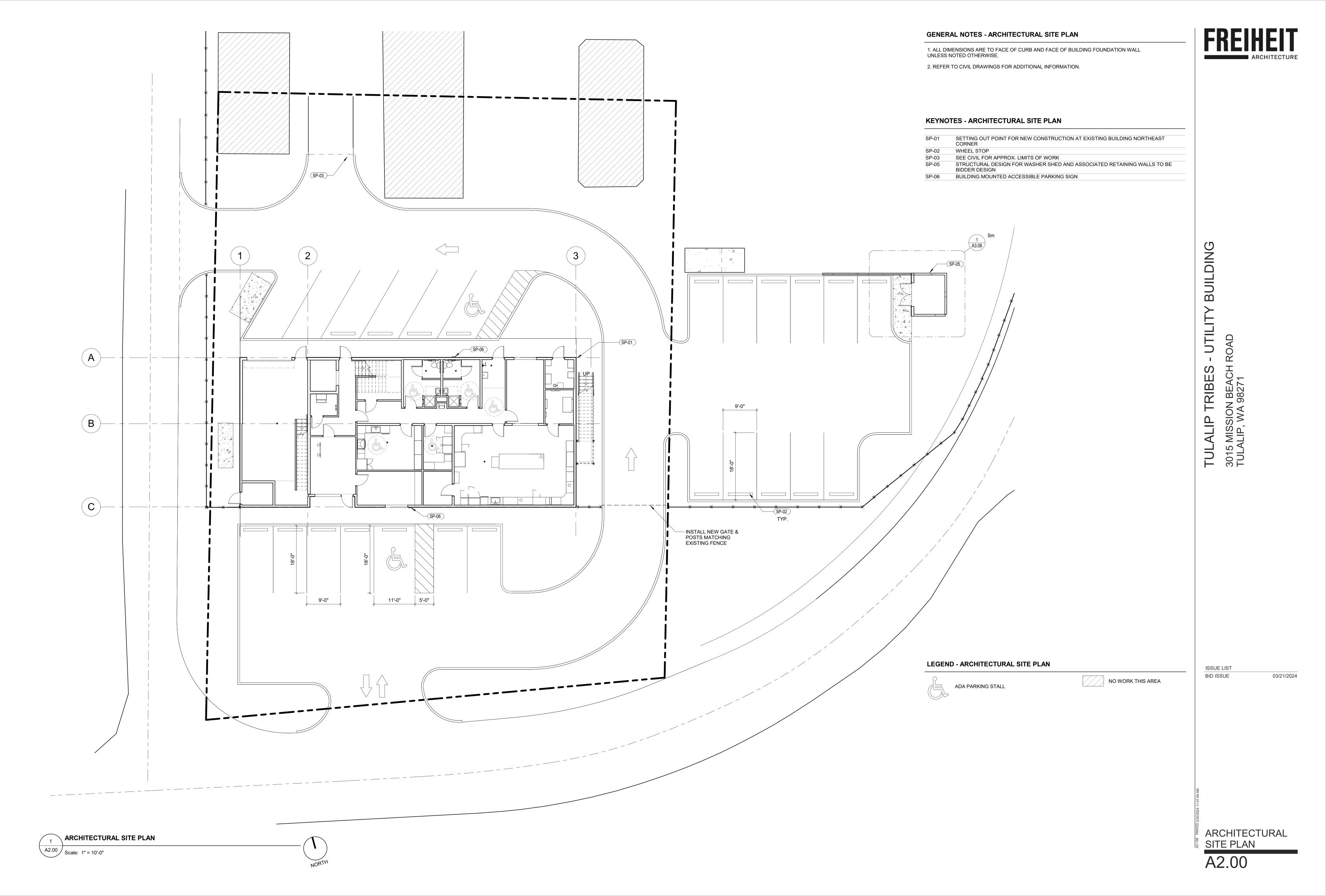
C2.01

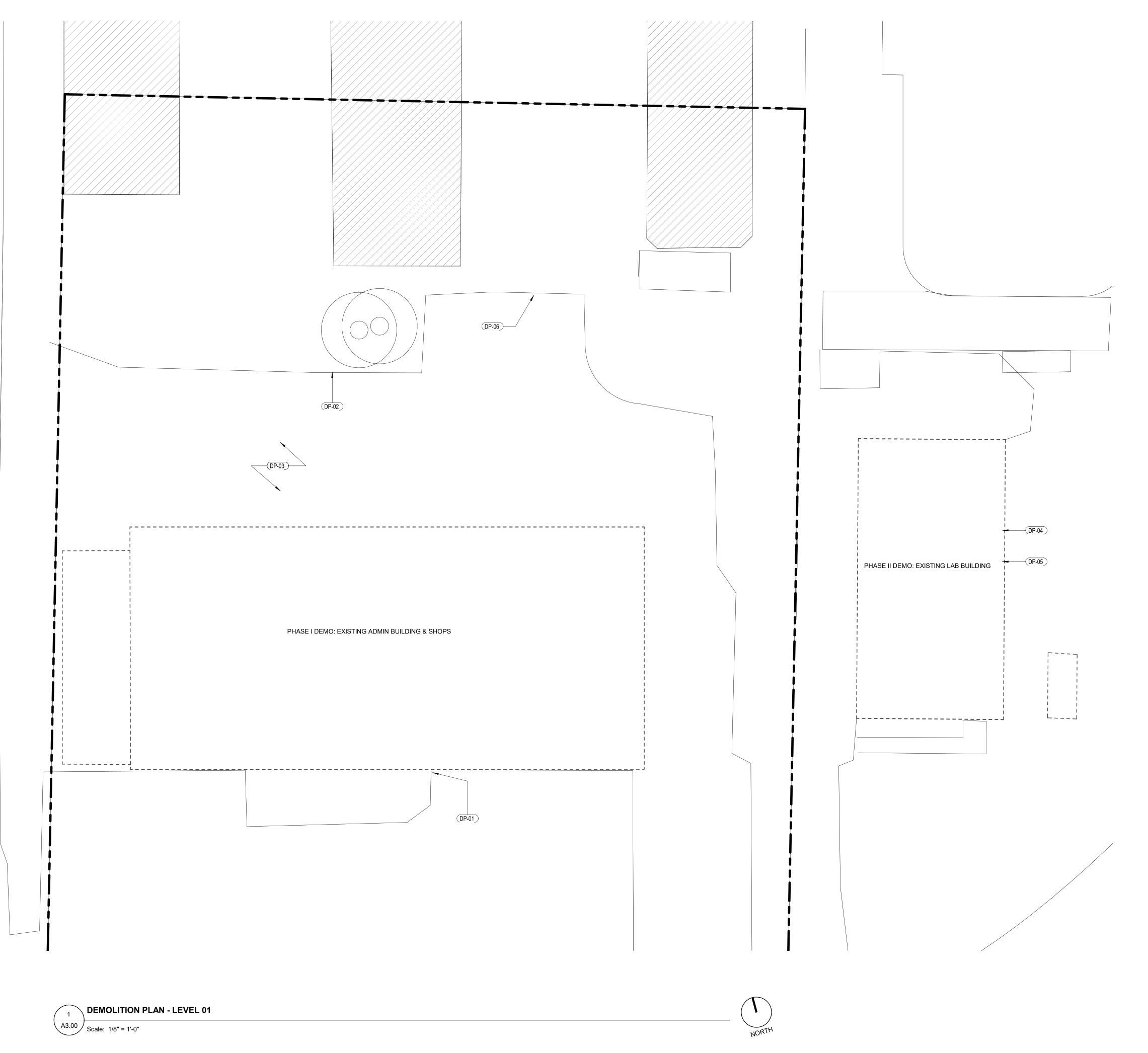


03/21/2024

AIR BARRIER PLAN & SECTION

A1.10





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

DEMOLISH EXISTING ADMIN & SHOP BUILDING, INCLUDING SLAB, FOOTINGS, AND UTILITIES, TO ACCOMMODATE NEW CONSTRUCTION CUT BACK SITE PAVING TO LIMITS ON CIVIL PLANS TO ACCOMMODATE NEW PAVING. EXCAVATE UNDERLAY AS NECESSARY TO ACCOMMODATE NEW BUILDING CUT BACK SITE UTILITIES TO EXTENT NECESSARY TO ACCOMMODATE NEW UTILITIES PER

DEMOLISH EXISTING LAB BUILDING ONCE NEW FACILITY IS OPERATIONAL. REMOVE SLAB, FOOTINGS AND UTILITIES AS NECESSARY TO ACCOMMODATE NEW PARKING LOT

COORDINATE SALVAGE, RELOCATION OR CONTINUED OPERATION OF CONTROL OR OTHER SYSTEMS WITH OWNER

SEE CIVIL FOR APPROX. LIMITS OF WORK

LEGEND - DEMOLITION PLAN

EXISTING CONSTRUCTION / ELEMENT TO REMAIN

EXISTING CONSTRUCTION / ELEMENT TO BE REMOVED

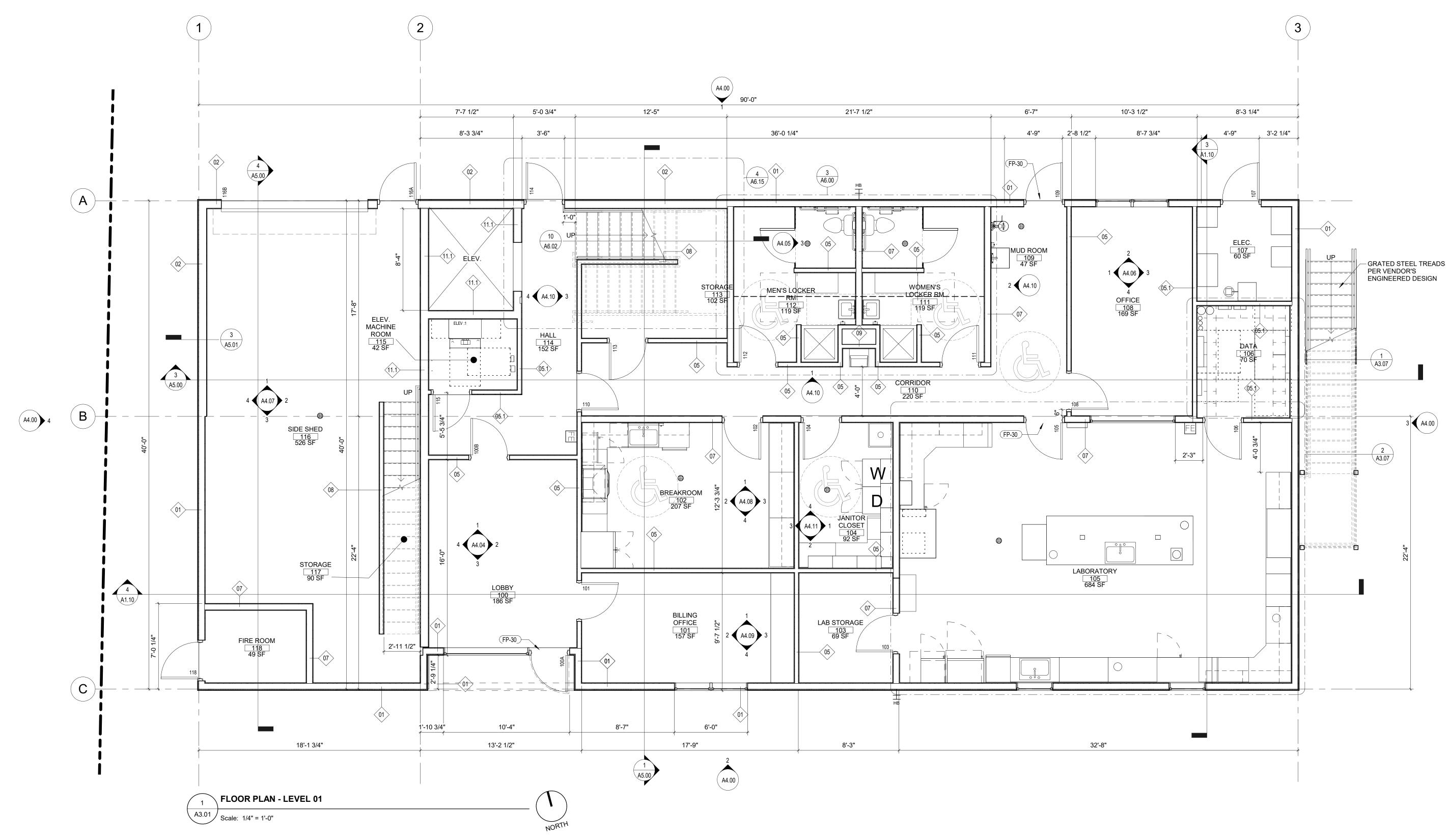
____ APPROX. EXTENTS OF WORK

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DEMOLITION PLAN
A3.00



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

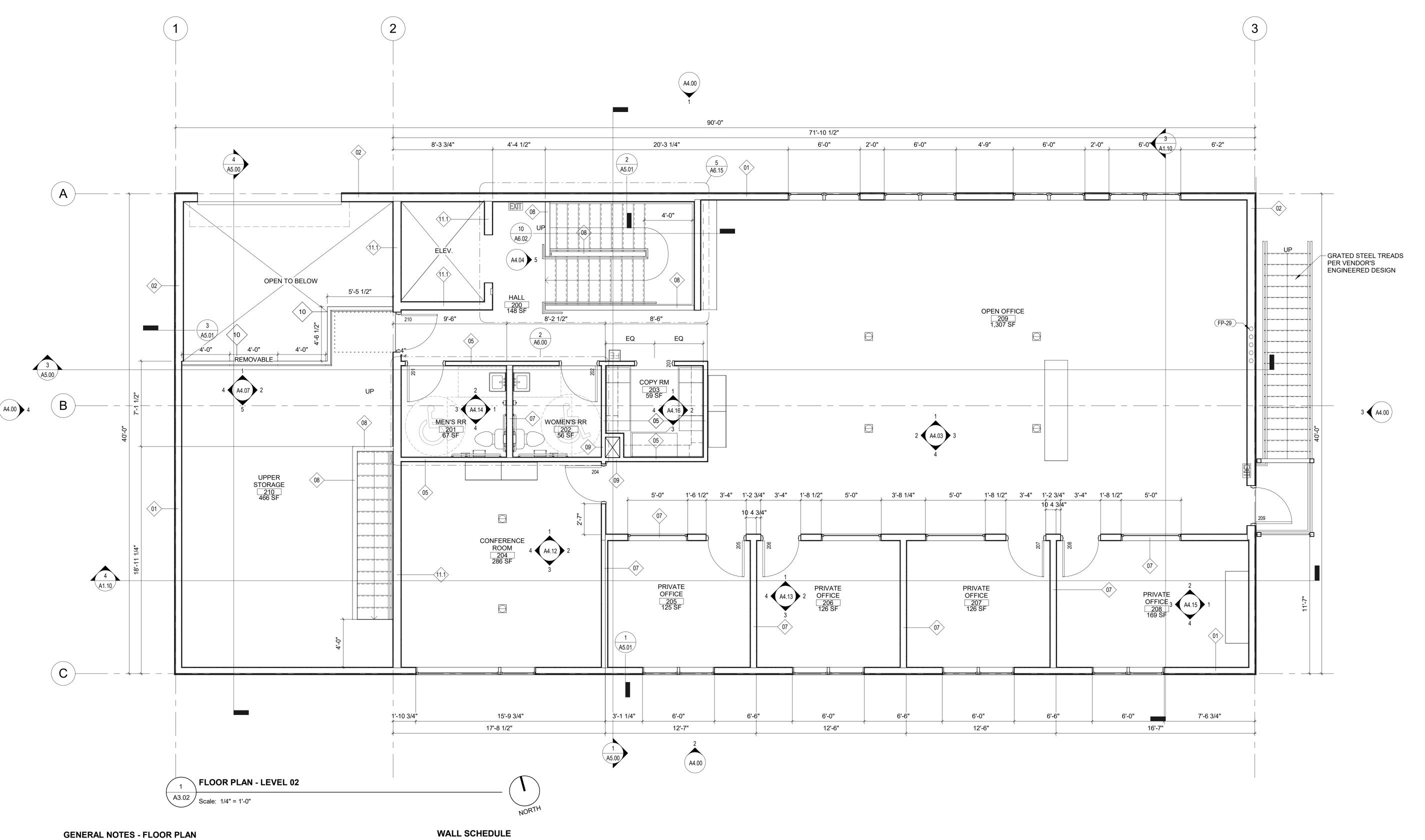


TULALIP TRIBES - UTILITY BUILD
3015 MISSION BEACH ROAD
THE ALID WAS 08274

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BID ISSUE 03/21/2024

FLOOR PLAN LEVEL 1

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)

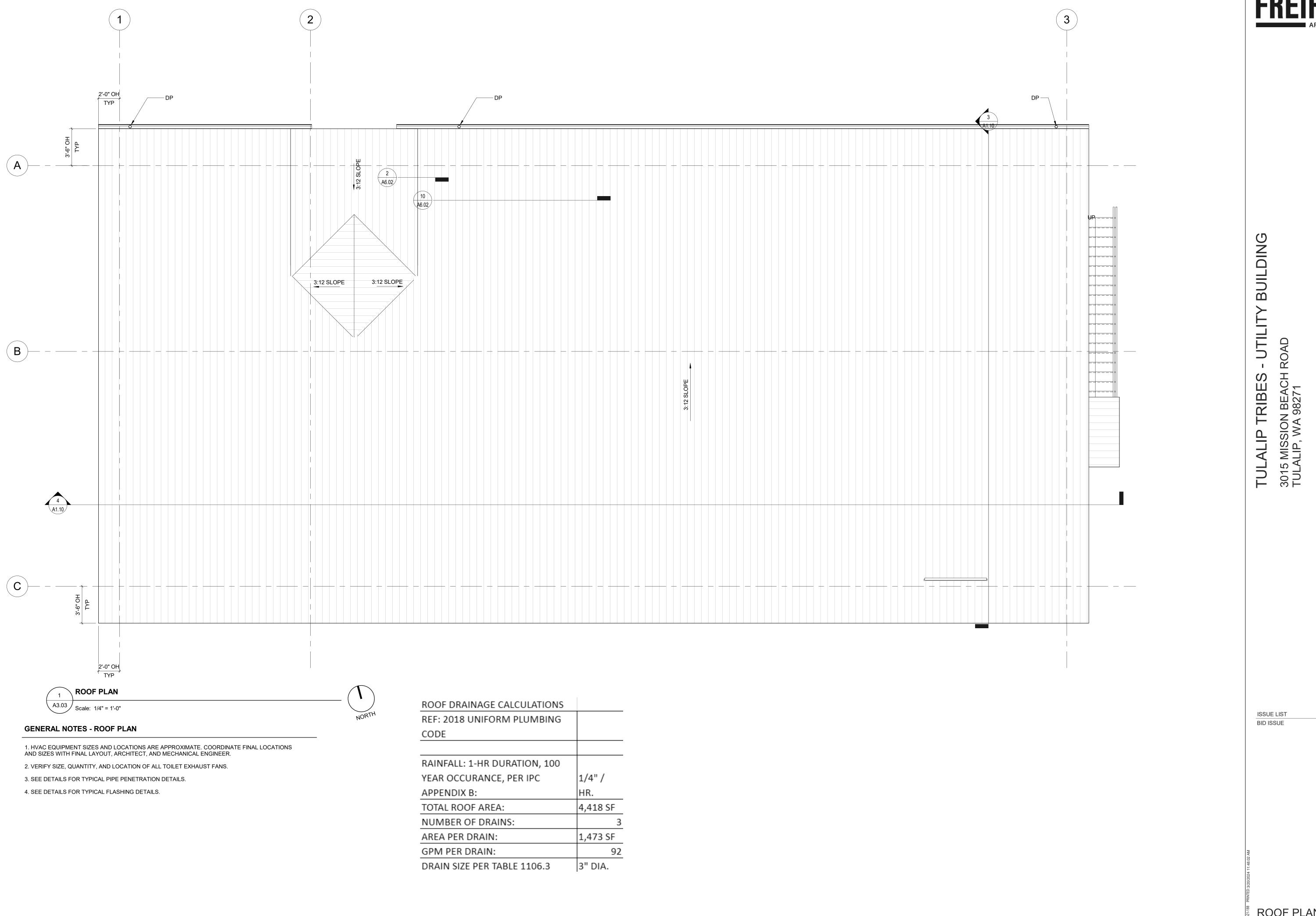
01	MTL SD - 3/4" FURR - SHEATH - 6" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
02	MTL SD - 3/4" FURR - SHEATH - 8" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	NON-RATED
05	5/8" GWB - 4" WD STUD - 5/8" GWB	TO UNDERSIDE OF STRUCTURE	1-HR RATING PER PER SBC TABLE 720.1 ITEM NUMBER 4-1
07	5/8"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

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03/21/2024

FLOOR PLAN

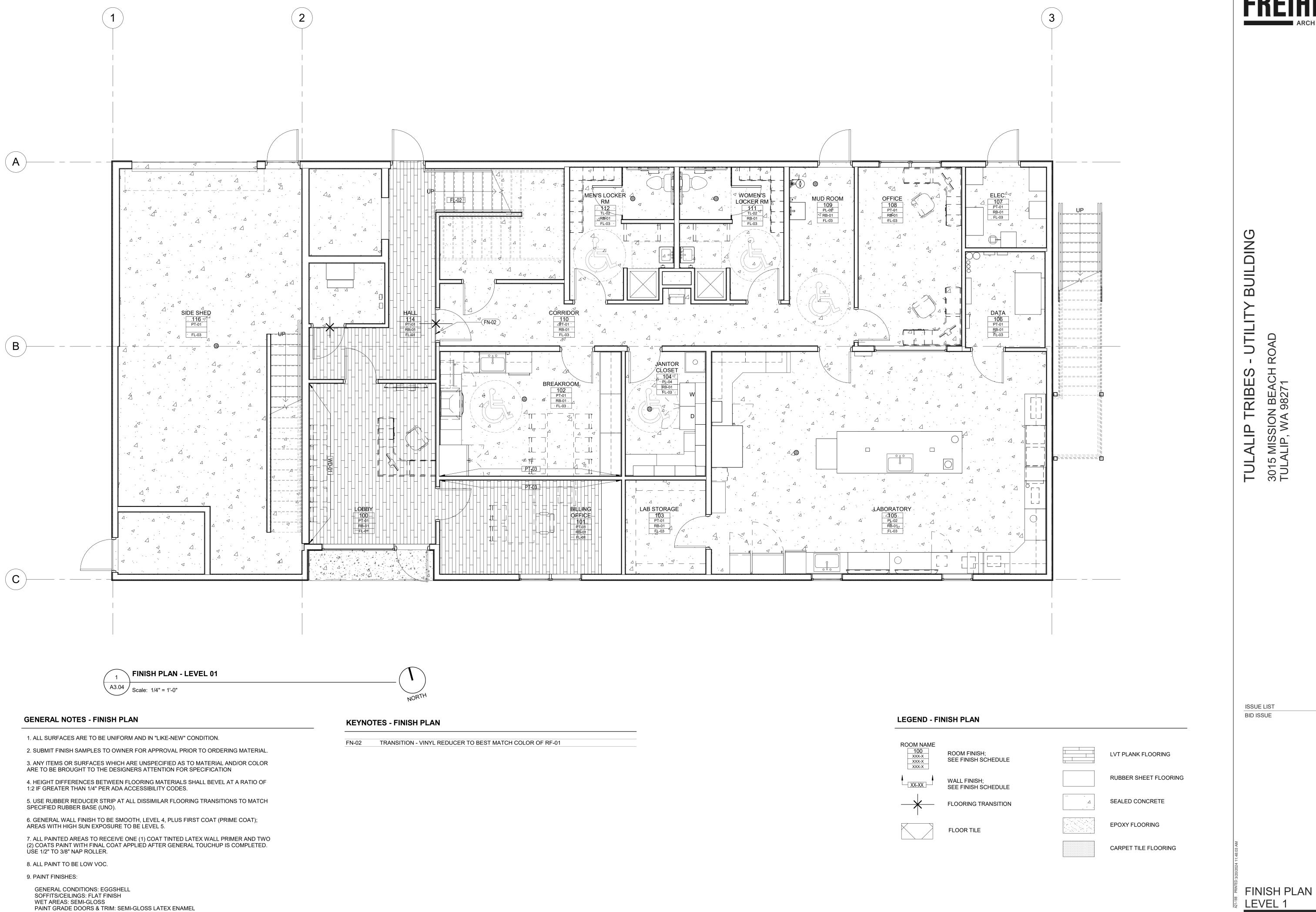
LEVEL 2
A3.02



03/21/2024

ROOF PLAN

A3.03

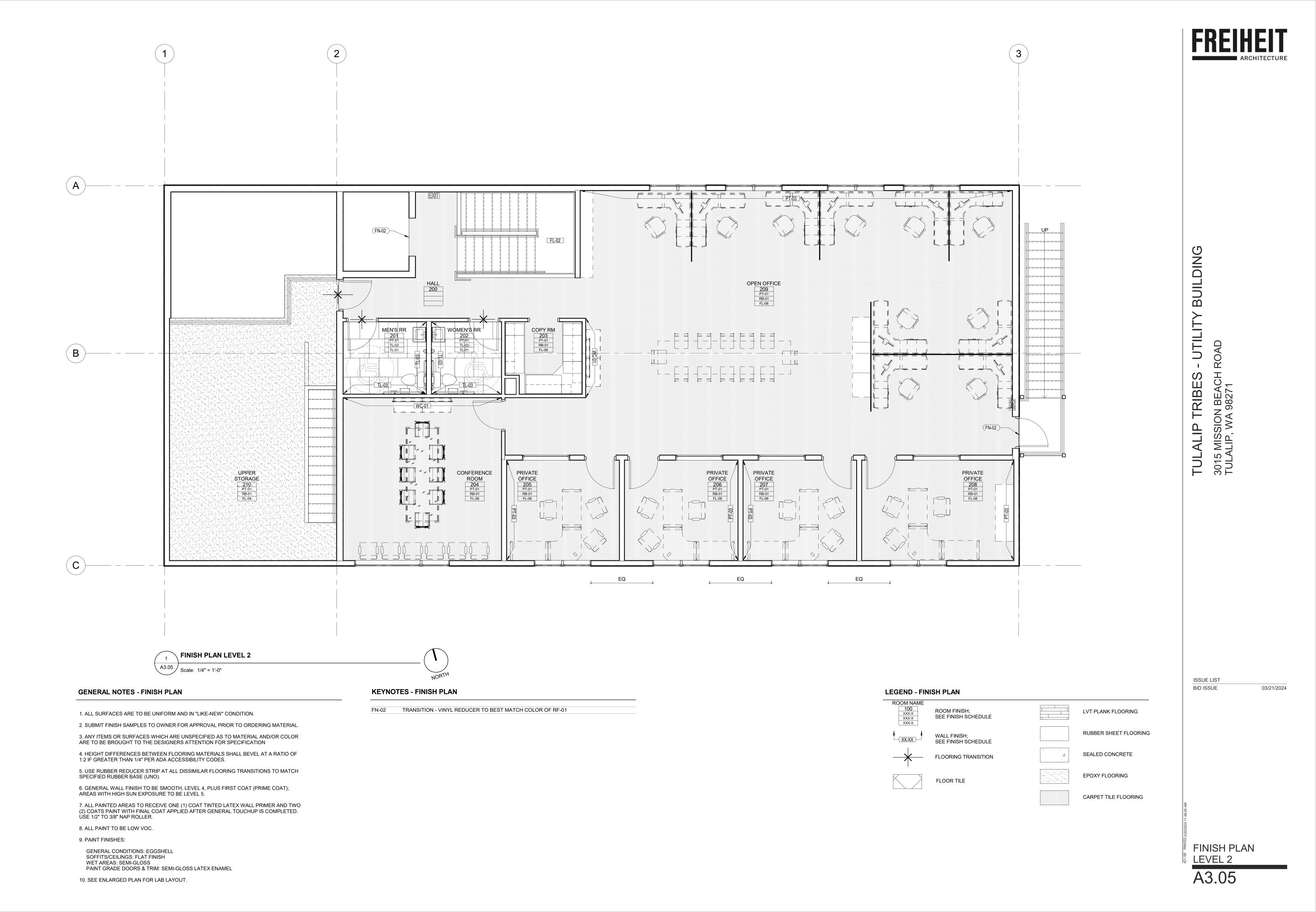


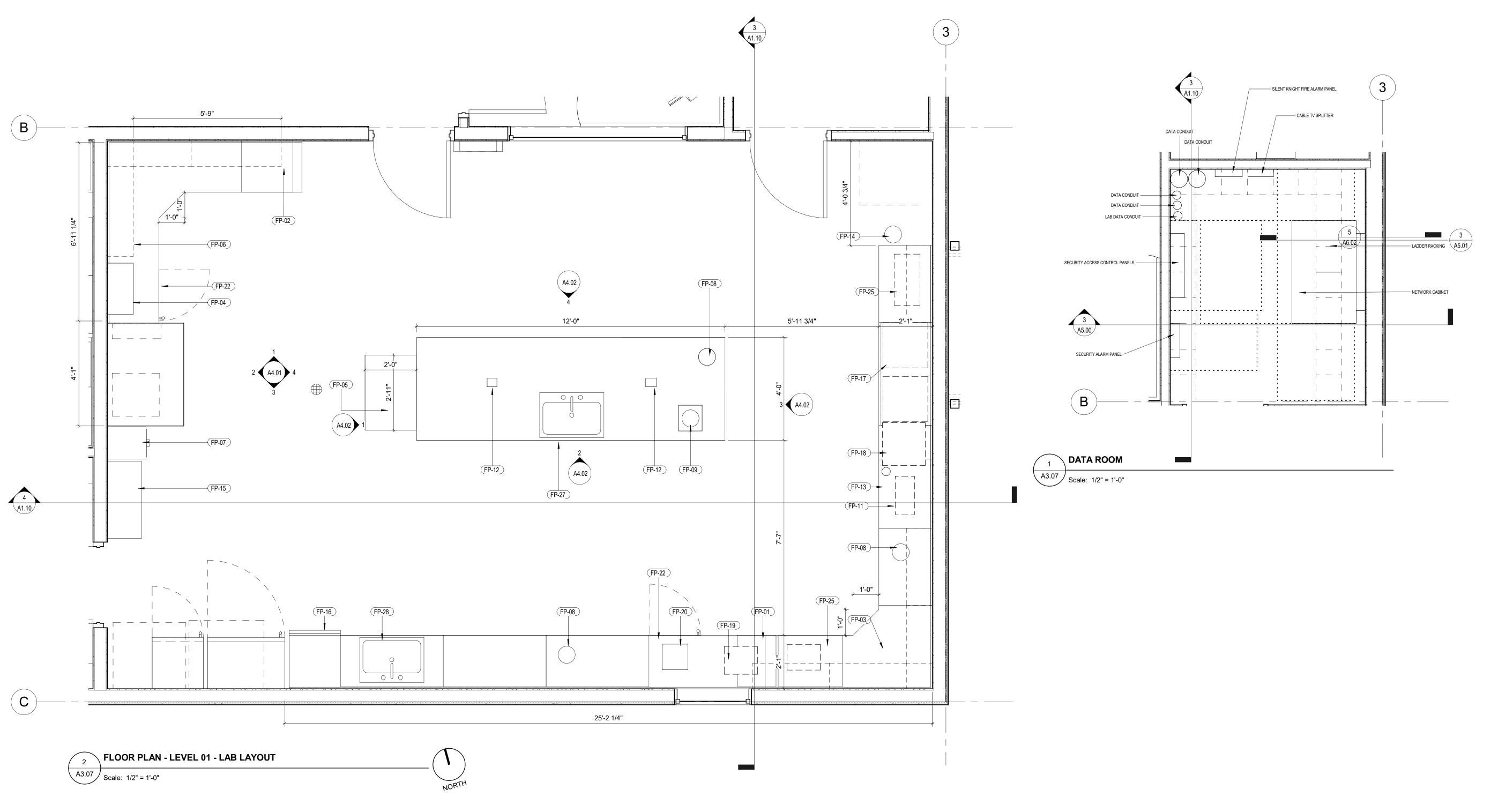
10. SEE ENLARGED PLAN FOR LAB LAYOUT.

LEVEL 1

03/21/2024

A3.04





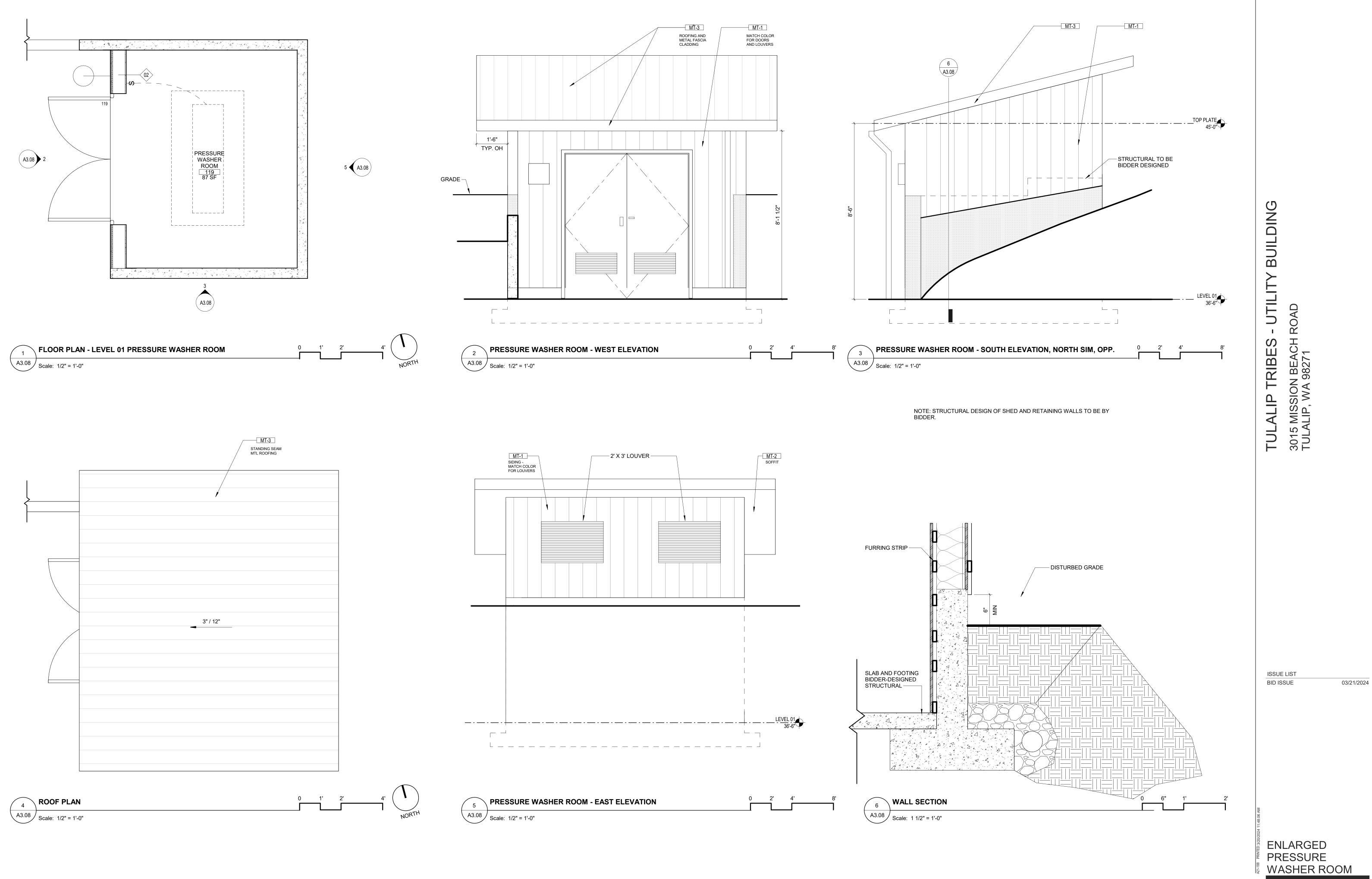
LAB EQUIPMENT SCHEDULE

LAB EQUIPMENT SCHEDULE										
Mark	Description	Manufacturer	Model	Depth	Width	Height	Electrical	Mechanical	Comments	Responsibility
				ı						
FP-01	2 DRAWER LEGAL FILE CABINET	VERIFY	VERIFY	18"	15"	34"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
FP-02	LOCKABLE CABINETRY - UPPER AND LOWER	VERIFY	VERIFY	24"	24"	34 1/2"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
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	CFCI
FP-04	FILE ORGANIZER WALL MOUNTED	VERIFY	VERIFY	12"	24"	30"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	CFCI
FP-05	SCALE STATION	VERIFY	VERIFY	12"	24"	-	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	CFCI
FP-06	UPPER CABINET WITH UNDER CABINET LIGHTING, TYPICAL	VERIFY	VERIFY	12"	42"	30"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	CFCI
FP-07	4 DRAWER LEGAL FILE CABINET	VERIFY	VERIFY	18"	15"	52"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
FP-08	TRASH HOLE WITH FLUSH EPOXY CENTER	VERIFY	VERIFY	8" DIA.	8" DIA.	-	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	CFCI
FP-09	MICROSCOPE, ADJUSTABLE BASE	VERIFY	VERIFY	11"	12"	-	VERIFY	VERIFY	PROVIDED POWER AND DATA AT ISLAND. VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
FP-10	(2) WALL MOUNTED TV MONITORS	VERIFY	VERIFY	4.5"	43.5"	24.5"	VERIFY	VERIFY	50" DIAGONAL. VERIFY PRODUCT AND REQUIREMENTS	CFCI
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	OFOI
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	CFCI
FP-13	CUP SINK	VERIFY	VERIFY	4"	4"	-	VERIFY	VERIFY	SEE PLUMBING. VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	CFCI
FP-14	DESSICATOR	NALGENE	38090	-	-	-	NA	NA	FITS 230 mm DESICATOR PLATE	OFOI
FP-15	FULL HEIGHT GLASSWARE STORAGE	VERIFY	VERIFY	16"	36"	84"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
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	OFOI
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	OFOI
FP-18	AUTOCLAVE	TUTTNAUER	2340M	20"	20"	15"	120V / 60HZ	NA	5 GALLON, VERIFY REQUIREMENTS	OFOI
FP-19	FECAL COLIFORM BATH	PRECISION	TSCOL19	12"	15 1/2"	7 3/4"	15/230VAC, 50/60HZ	NA	VERIFY PRODUCT AND REQUIREMENTS	OFOI
FP-20	TURBIDIMETER	HACH	2100N (TL23)	-	-	-	VERIFY	NA	VERIFY PRODUCT	OFOI
FP-21	INCUBATOR REFRIGERATOR	PRECISION	815 BOD	31"	34"	77"	800W, 6.2A, 115VAC, 60HZ	NA	VERIFY ANY REQUIRED DATA CONNECTIONS	OFCI
FP-22	LAB REFRIGERATOR	VERIFY	VERIFY	32"	35"	70"	VERIFY	VERIFY	VERIFY SIZE AND CONNECTIONS	OFCI
FP-23	AED CABINET	VERIFY	VERIFY	5"	22 3/4"	22 3/4"	NA	NA	VERIFY PRODUCT, DIMENSIONS, AND REQUIREMENTS	OFOI
FP-24	FUME HOOD	LOC SCIENTIFIC	HP-604	35"	48"	89 1/4"	VERIFY	VERIFY	VERIFY PRODUCT AND REQUIREMENTS, SEE MECHANICAL	CFCI
FP-25	VACUUM PUMP	WELCH	92114	-	-	-	115VAC	NA	-	OFOI
FP-26	MUFFLE FURNACE	-	-	-	-	-	VERIFY	VERIFY	VERIFY PRODUCTS AND REQUIREMENTS	OFOI
FP-27	ISLAND SINK. FOOT PEDALS TO CONTROL	VERIFY	VERIFY	21"	30"	48" COUNTER HEIGHT	NA	VERIFY (HOT AND PURIFIED WATER)	-	CFCI
FP-28	SINK	VERIFY	VERIFY	21"	30"	48" COUNTER HEIGHT	NA	VERIFY (HOT AND PURIFIED WATER)	-	CFCI



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ENLARGED PLANS
A3.07





A3.08



03/21/2024

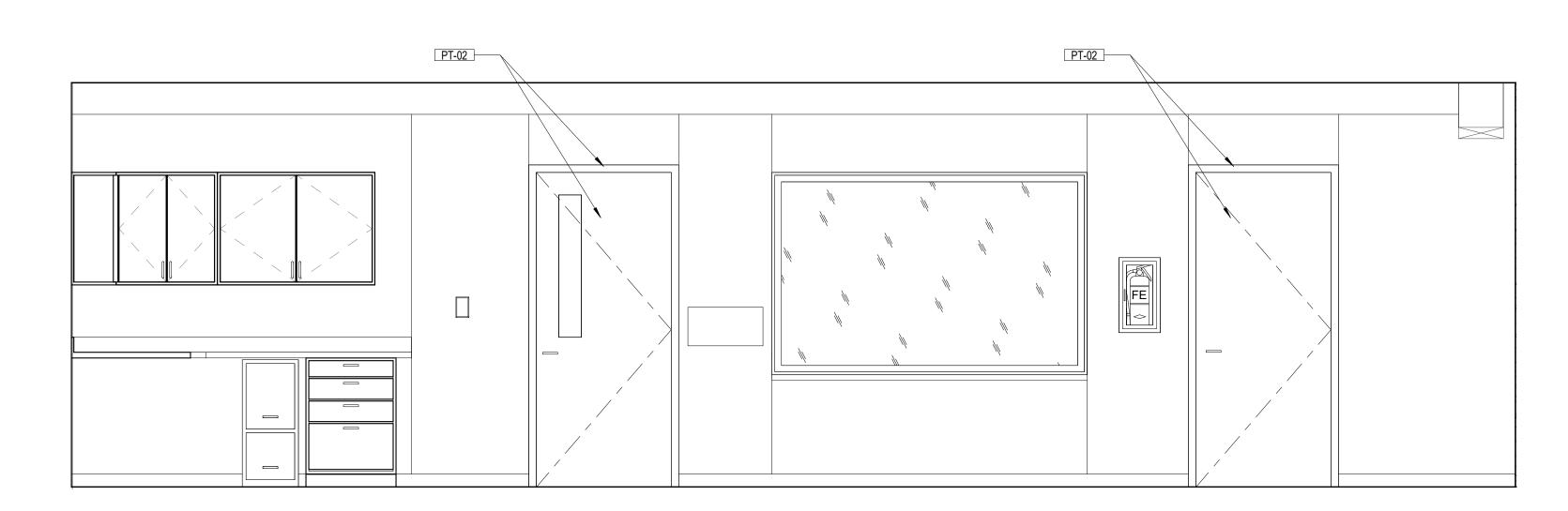
EXTERIOR ELEVATIONS

A4.00

- UTILITY BUILDING

TULALIP TRIBES

3015 MISSION BEACH ROAD TULALIP, WA 98271

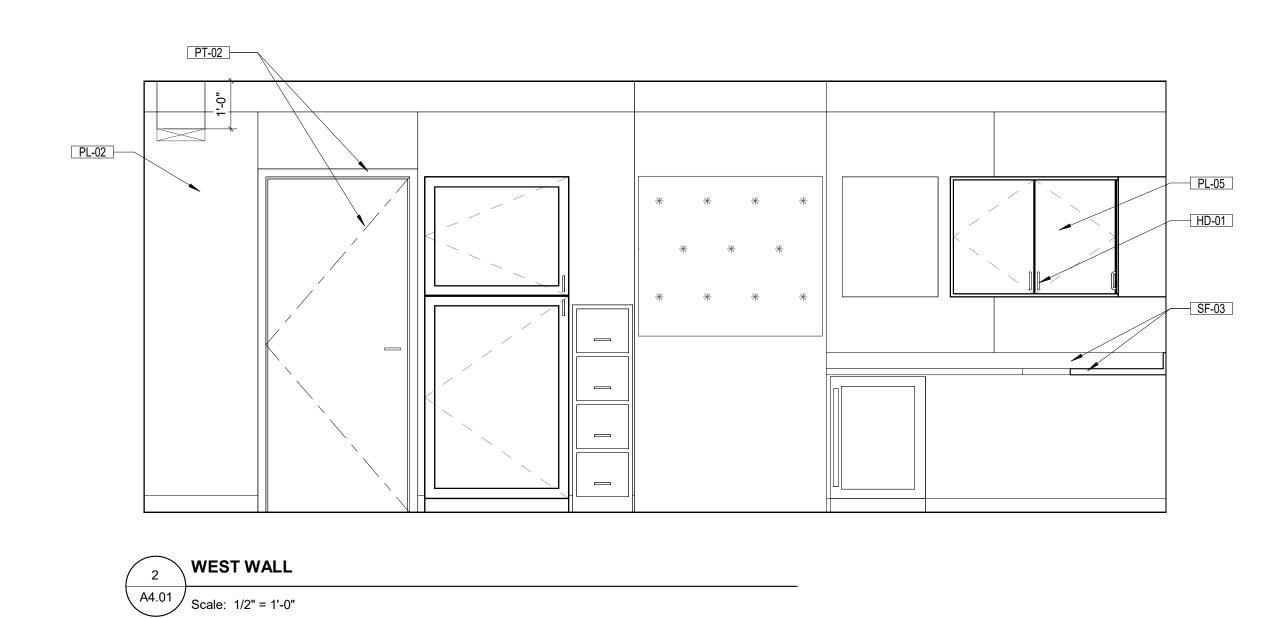


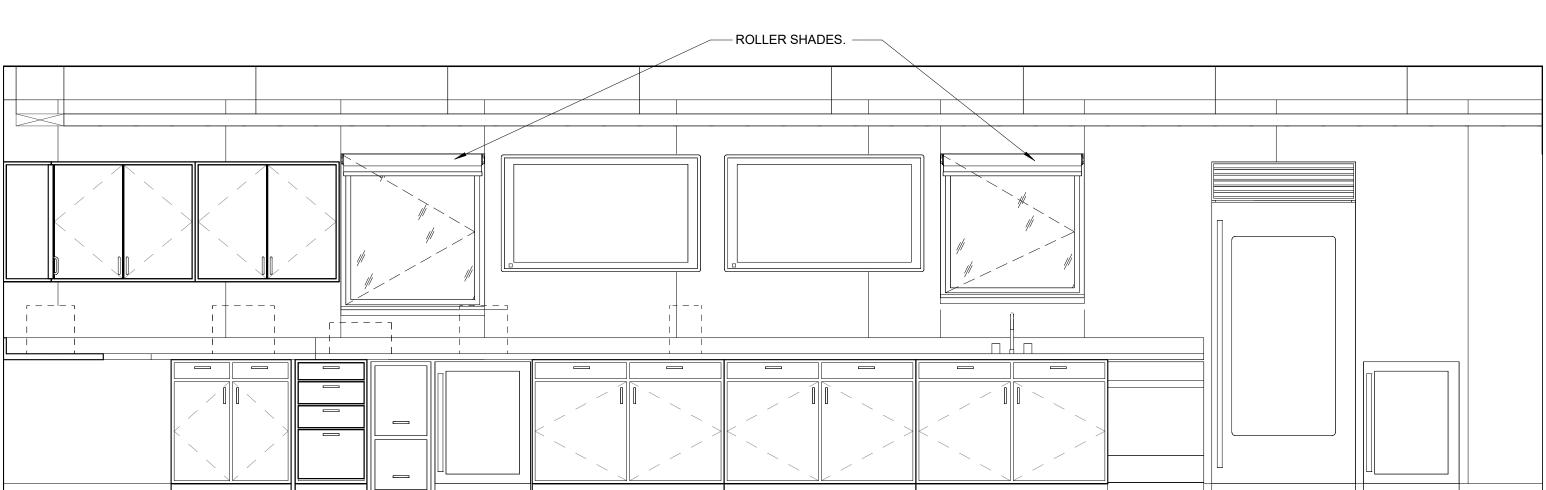
NORTH WALL

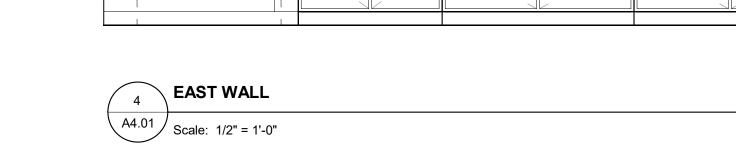
A4.01 Scale: 1/2" = 1'-0"

3 SOUTH WALL

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



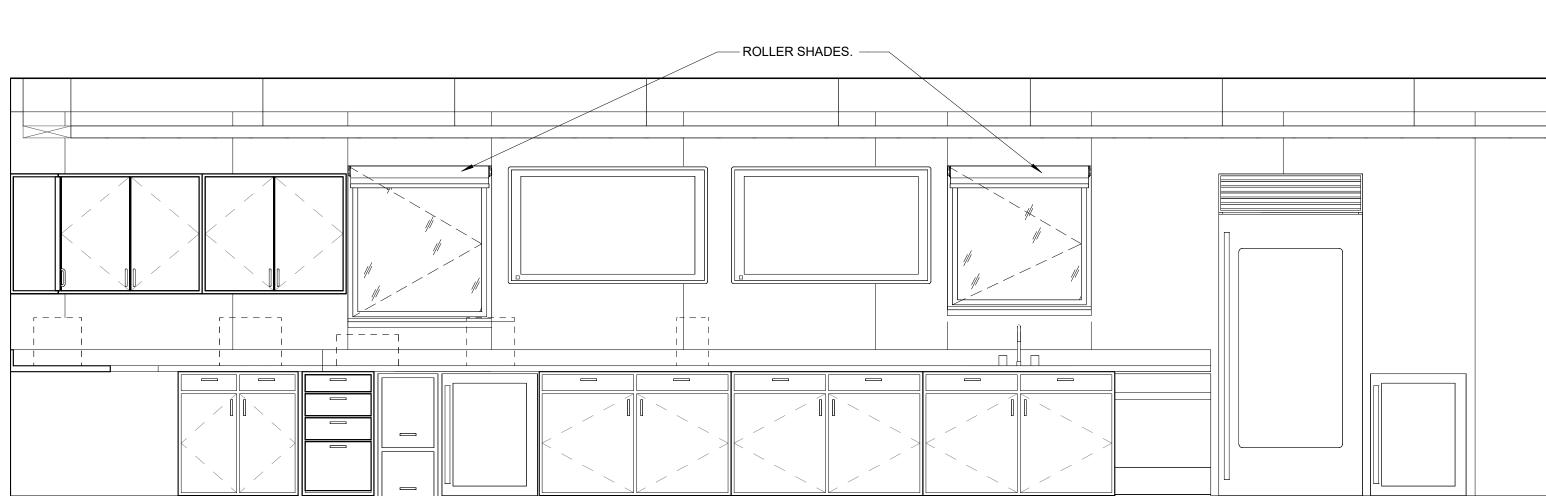


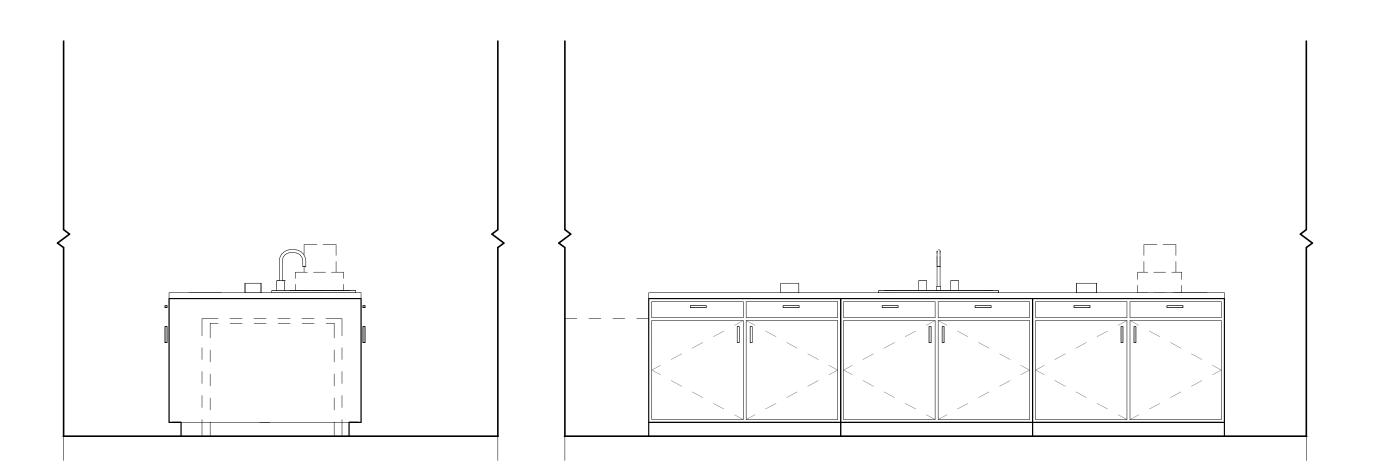


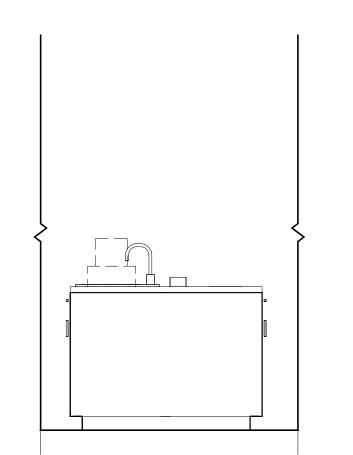
ISSUE LIST BID ISSUE

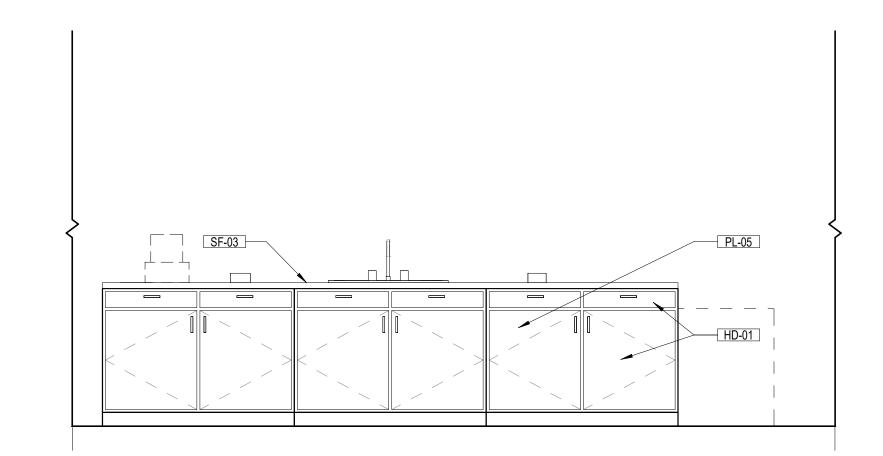
LAB ELEVATIONS
A4.01

03/21/2024









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

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

3 LAB ISLAND EAST A4.02 Scale: 1/2" = 1'-0"

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

ISSUE LIST BID ISSUE

3015 MISSION BEACH ROAD TULALIP, WA 98271

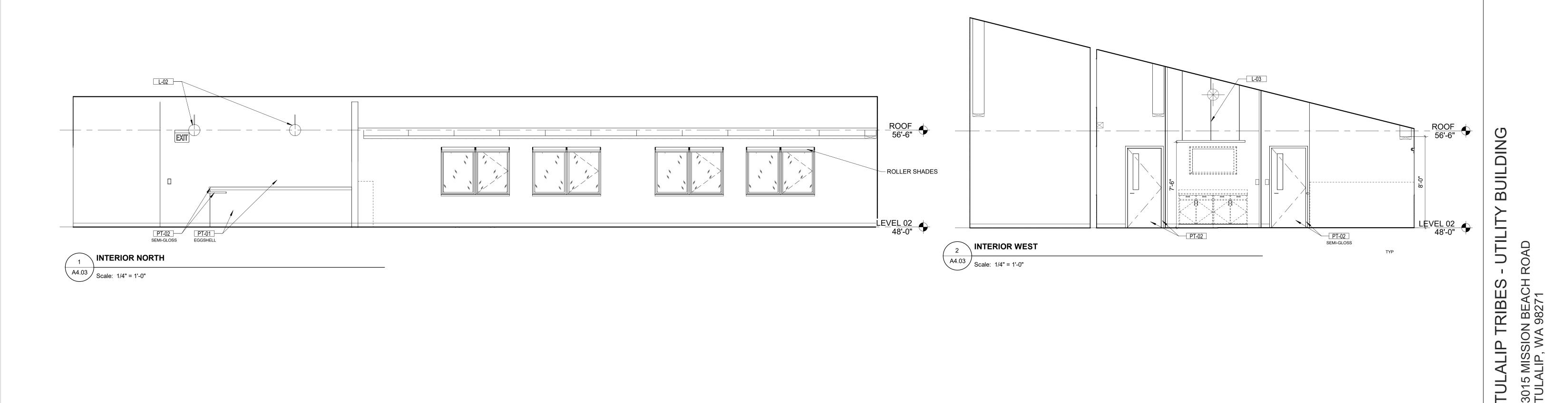
TULALIP TRIBES

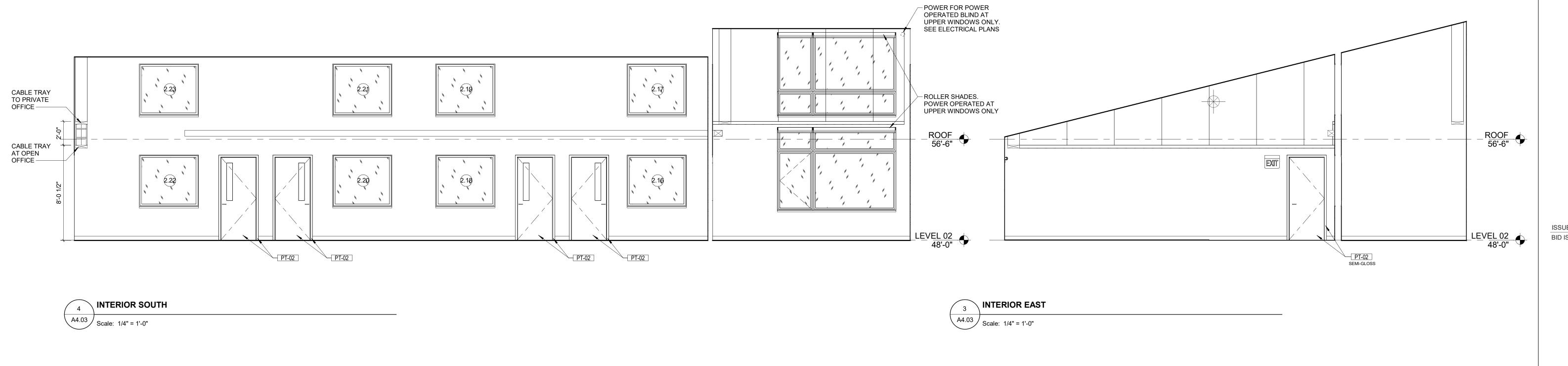
03/21/2024

LAB ELEVATIONS - ISLAND

A4.02







ISSUE LIST
BID ISSUE 03/21/2024

BID ISSUE 03/21/2024

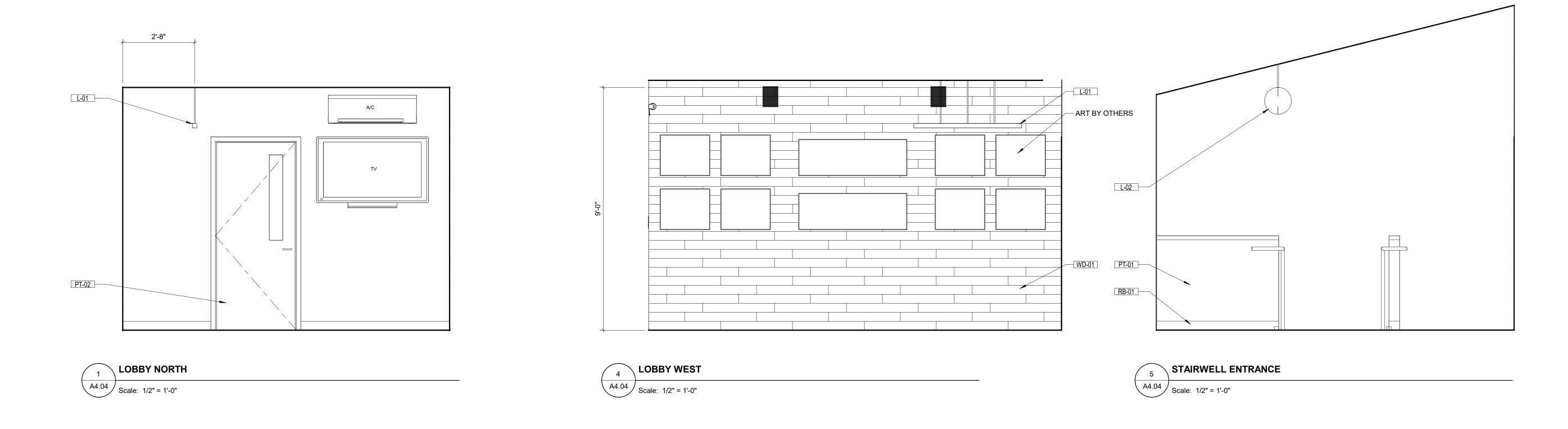
OFFICE
ELEVATIONS

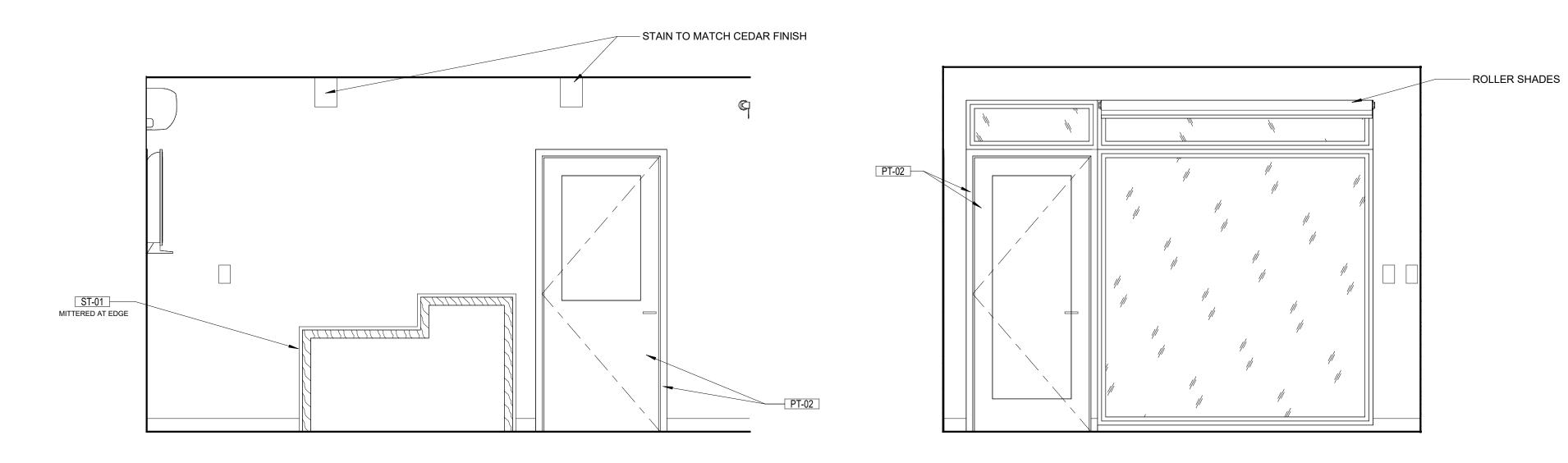
A4.03

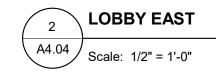
UTILITY BUILDING

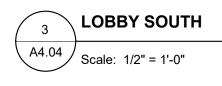
TULALIP TRIBES

3015 MISSION BEACH ROAD TULALIP, WA 98271









ISSUE LIST BID ISSUE 03/21/2024

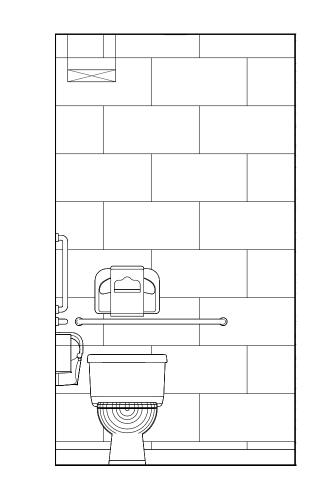
LOBBY & EXIT ELEVATIONS

A4.04

LOCKER ROOM
ELEVATIONS

A4.05

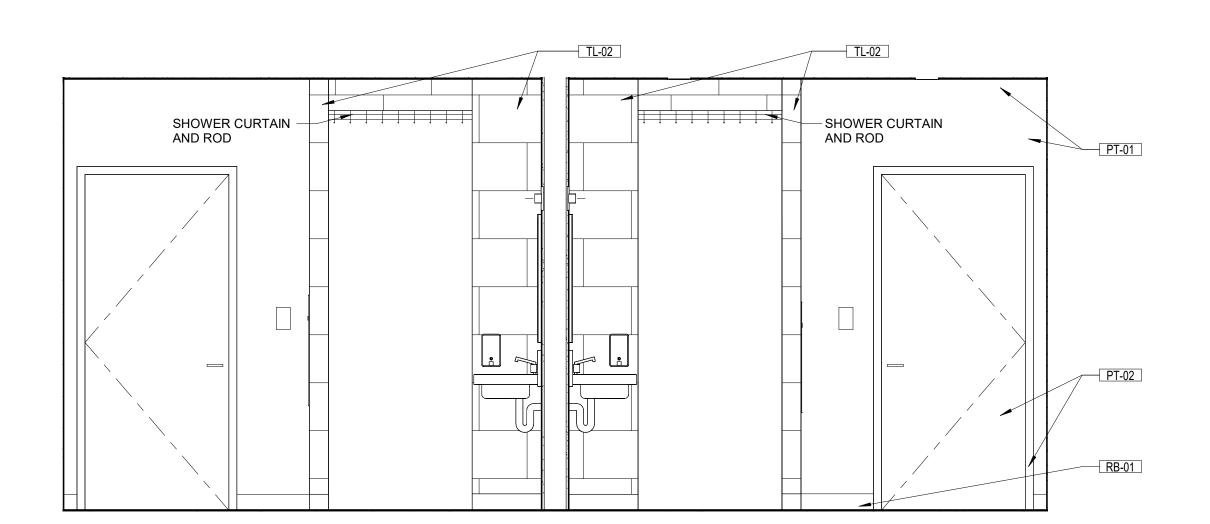


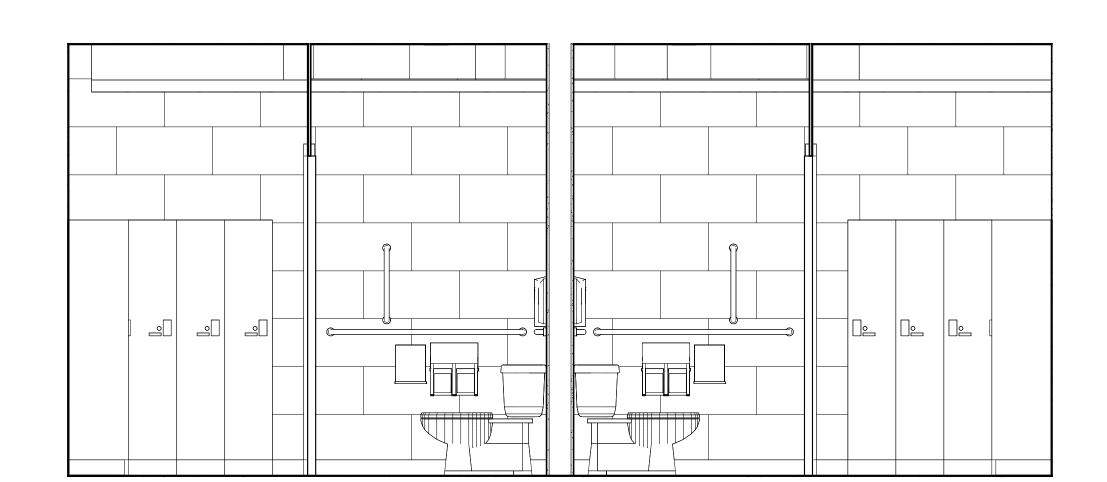


MEN'S LOCKER ROOM WEST (WOMEN'S LOCKER ROOM EAST SIM. OPP.) A4.05 Scale: 1/2" = 1'-0"

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

\ MEN'S LOCKER ROOM TOILET (WOMEN'S LOCKER ROOM TOILET SIM. OPP.)





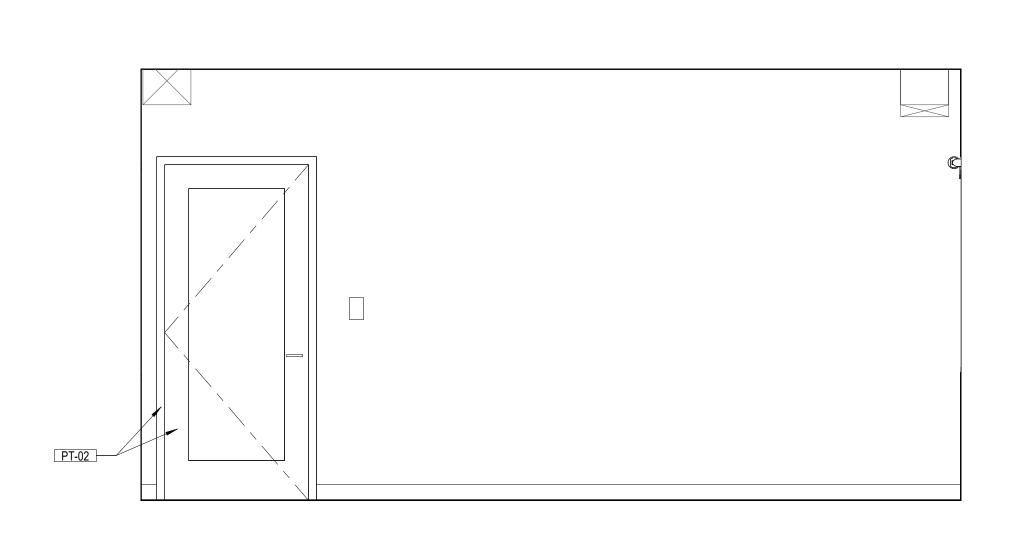


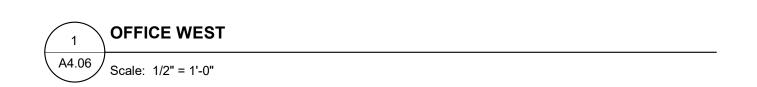
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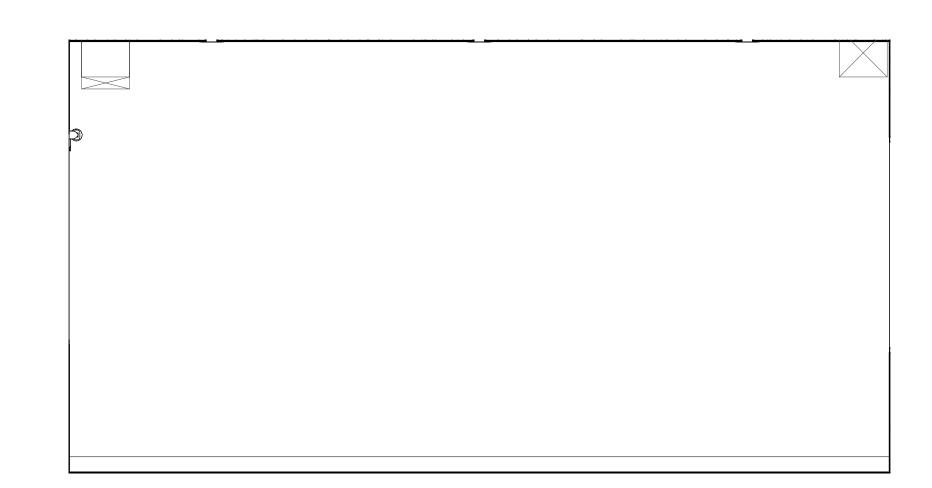
ISSUE LIST BID ISSUE

FLOOR 01 OFFICE ELEVATIONS

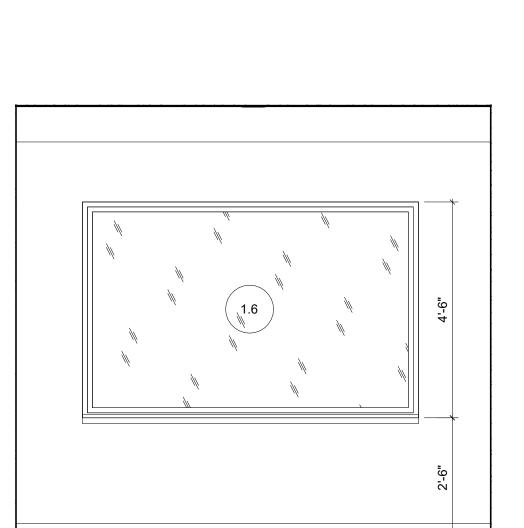
A4.06



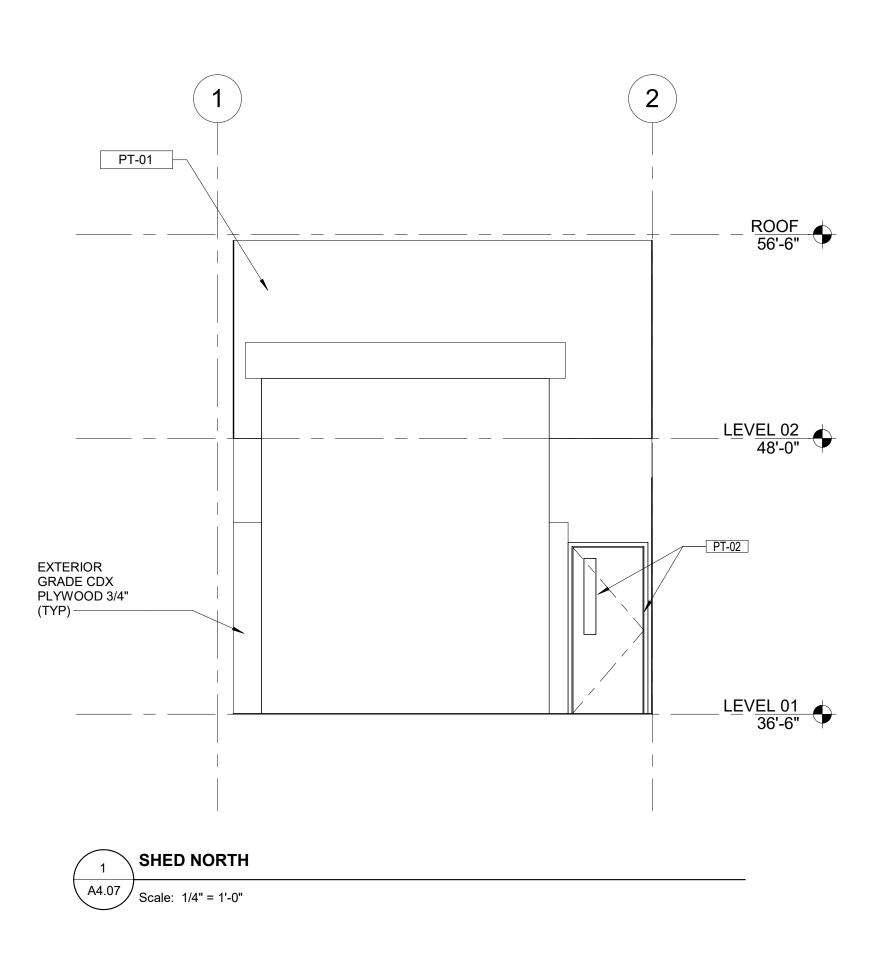


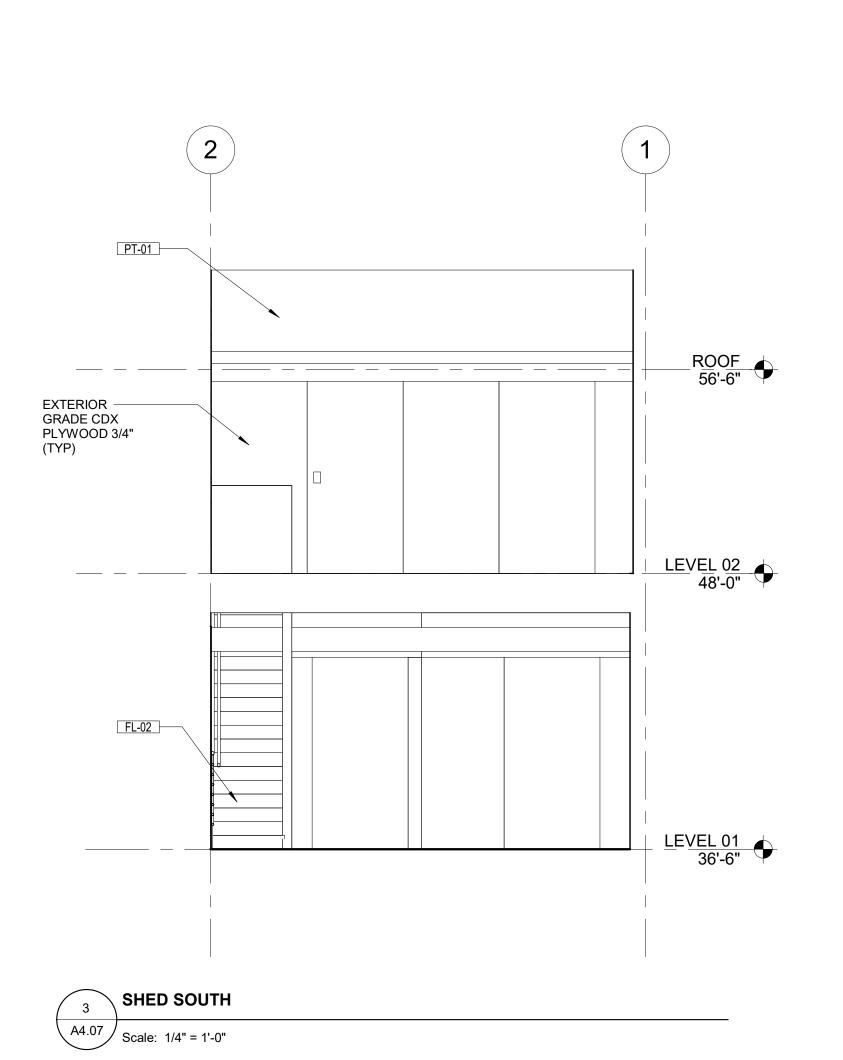


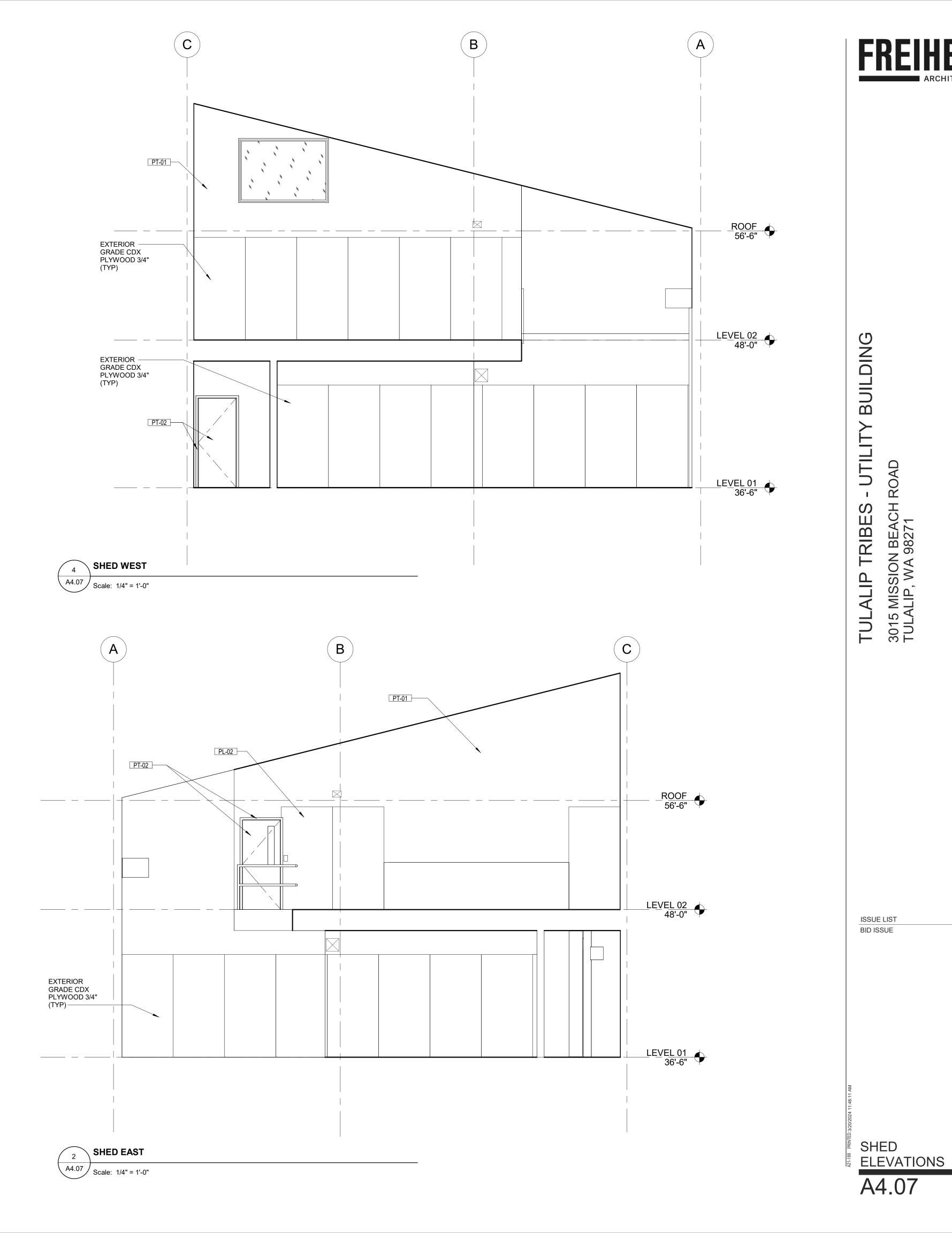




- ROLLER SHADE







03/21/2024



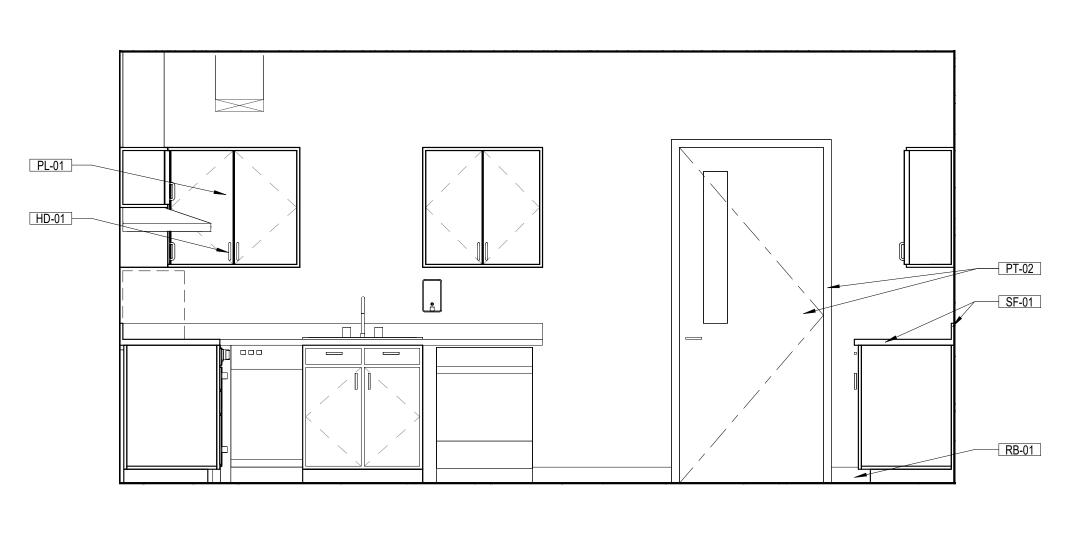
3015 MISSION BEACH ROAD TULALIP, WA 98271 TULALIP TRIBES

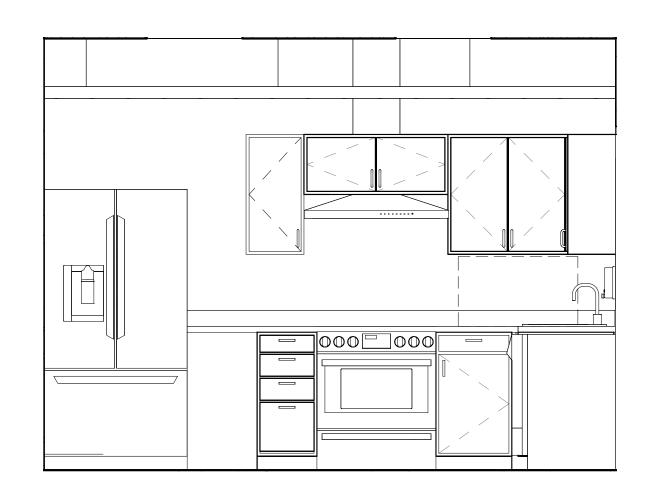
ISSUE LIST BID ISSUE

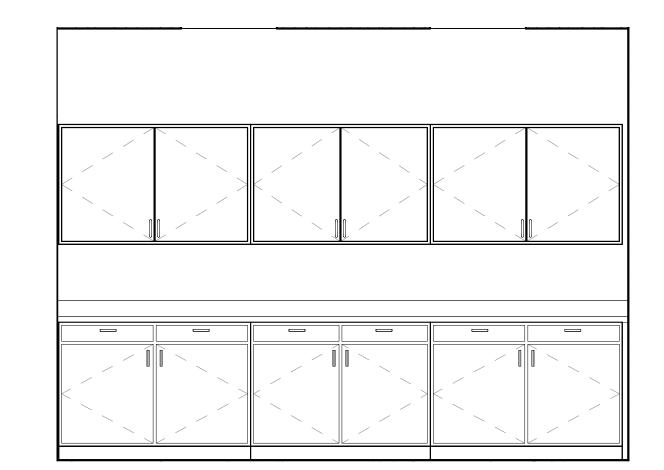
03/21/2024

BREAKROOM ELEVATIONS

A4.08



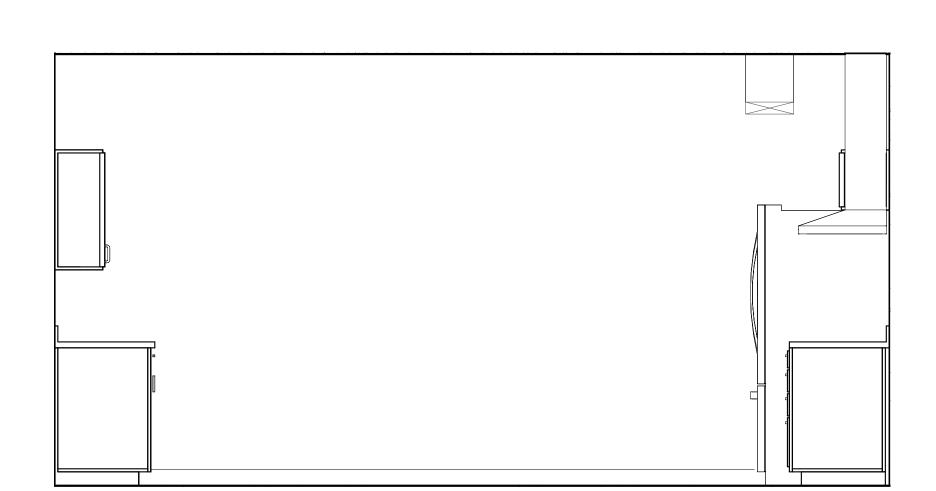




BREAK ROOM - EAST ELEVATION

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





BREAK ROOM - SOUTH ELEVATION

BREAK ROOM - NORTH ELEVATION

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



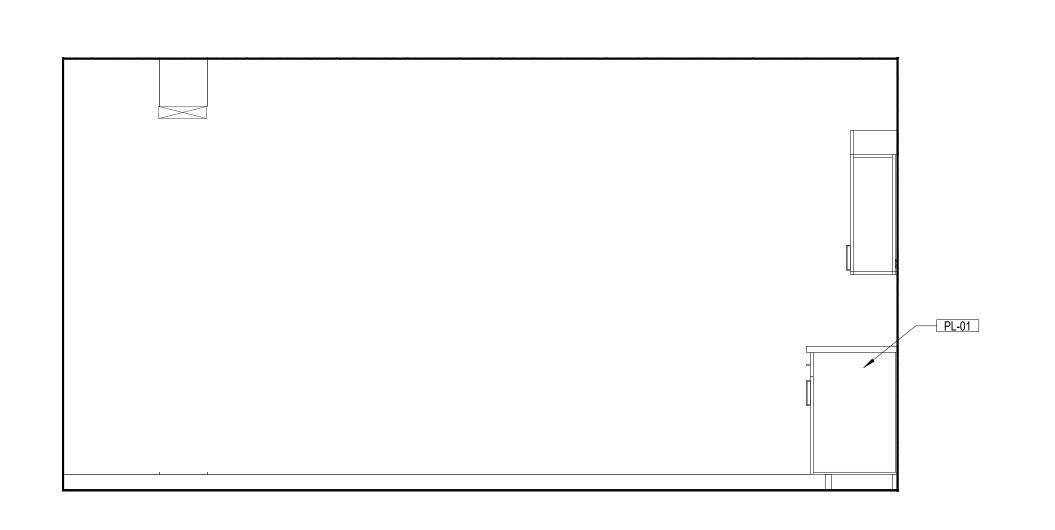
3015 MISSION BEACH ROAD TULALIP, WA 98271

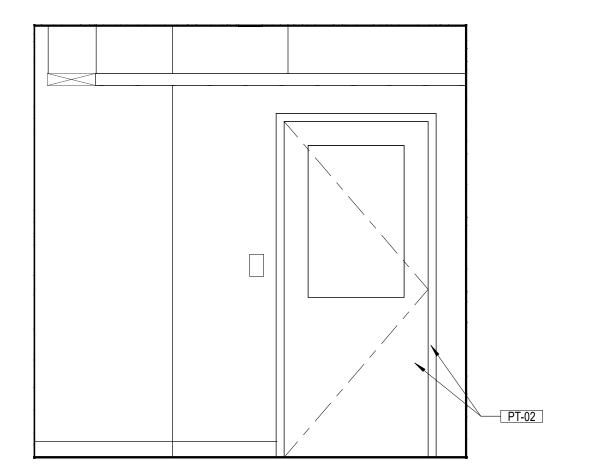
03/21/2024

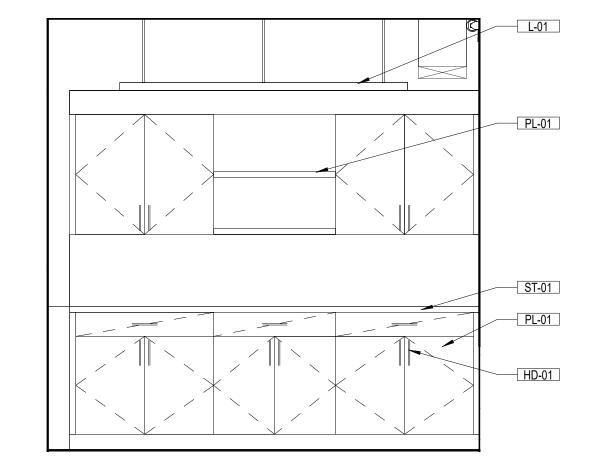
BILLING OFFICE ELEVATIONS

A4.09

ISSUE LIST BID ISSUE



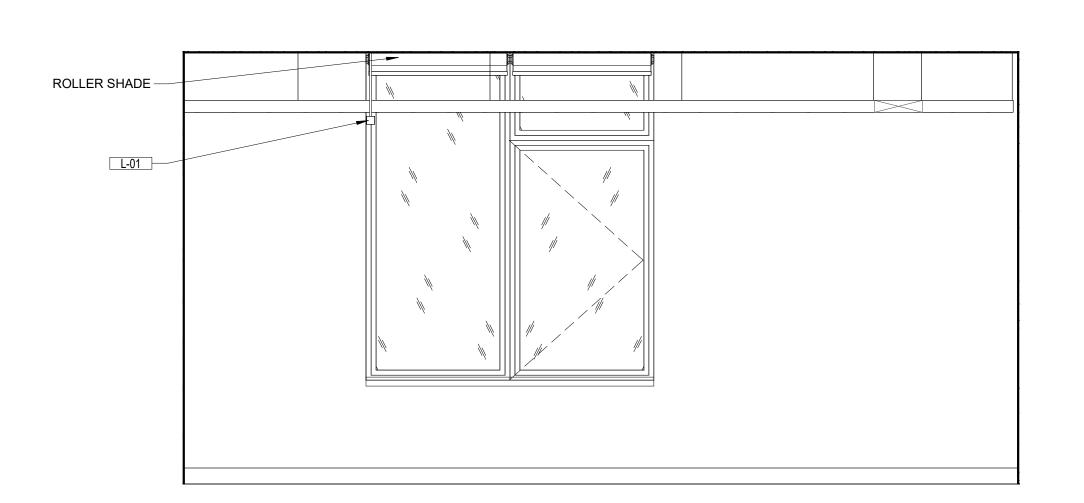




BILLING OFFICE - NORTH ELEVATION A4.09 Scale: 1/2" = 1'-0"

BILLING OFFICE - WEST ELEVATION A4.09 Scale: 1/2" = 1'-0"

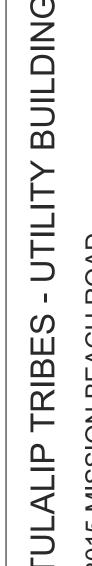
BILLING OFFICE - EAST ELEVATION A4.09 Scale: 1/2" = 1'-0"



BILLING OFFICE - SOUTH ELEVATION

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

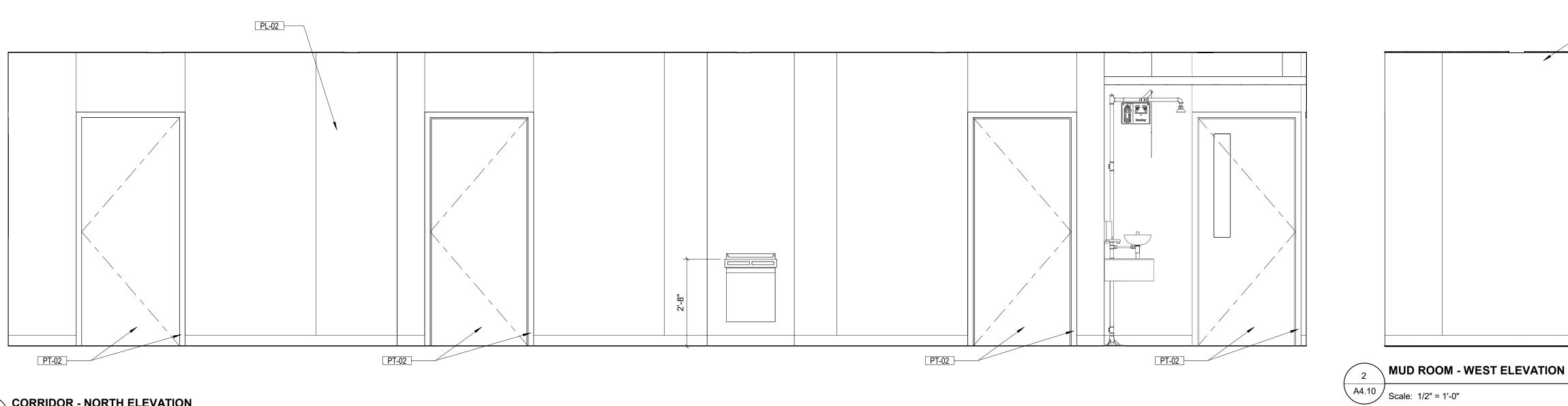
PL-02



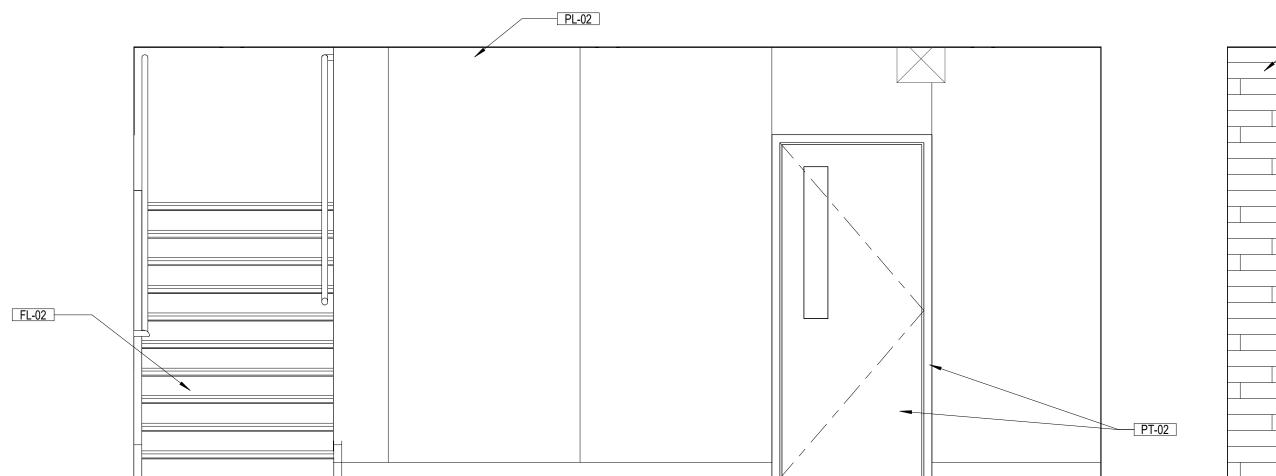
ISSUE LIST BID ISSUE 03/21/2024

CIRCULATION
MUD ROOM
ELEVATIONS

A4.10



CORRIDOR - NORTH ELEVATION A4.10 Scale: 1/2" = 1'-0"





HALL - EAST ELEVATION

HALL - WEST ELEVATION

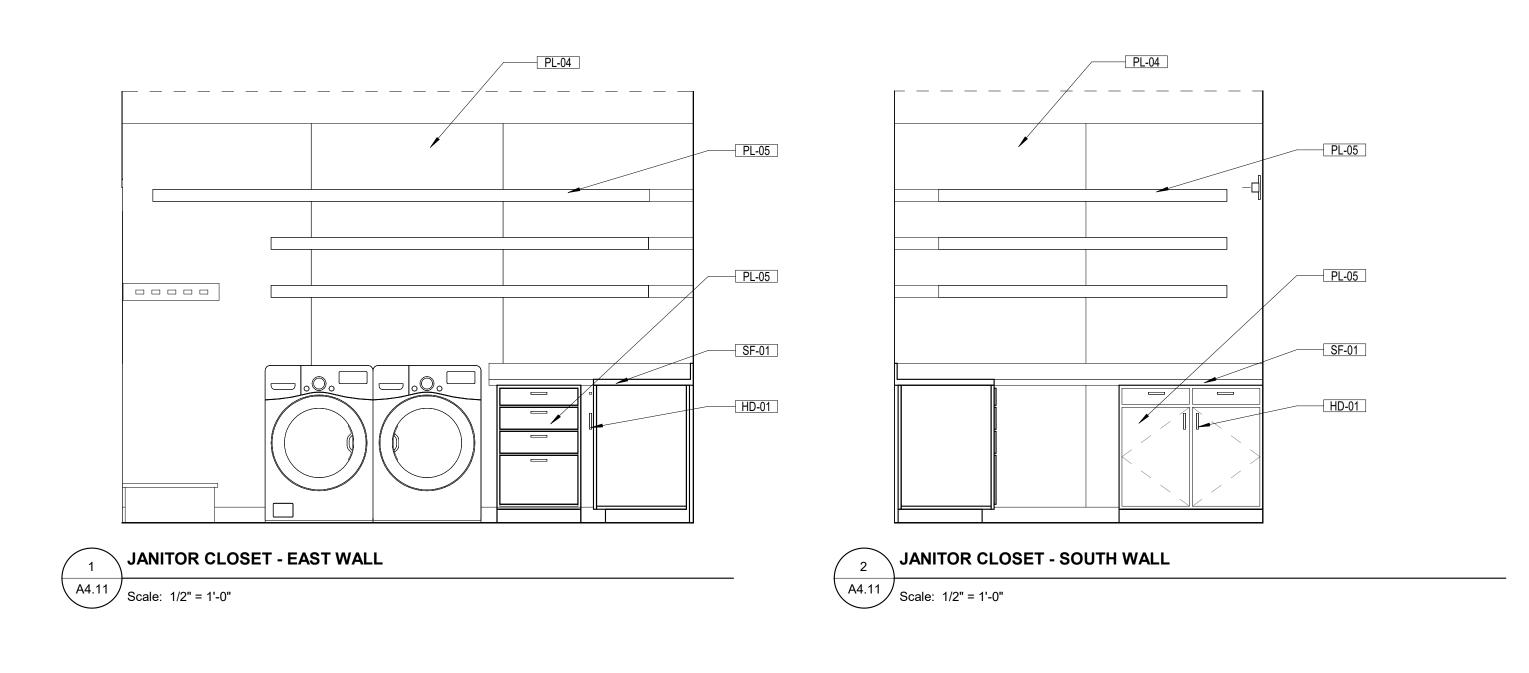


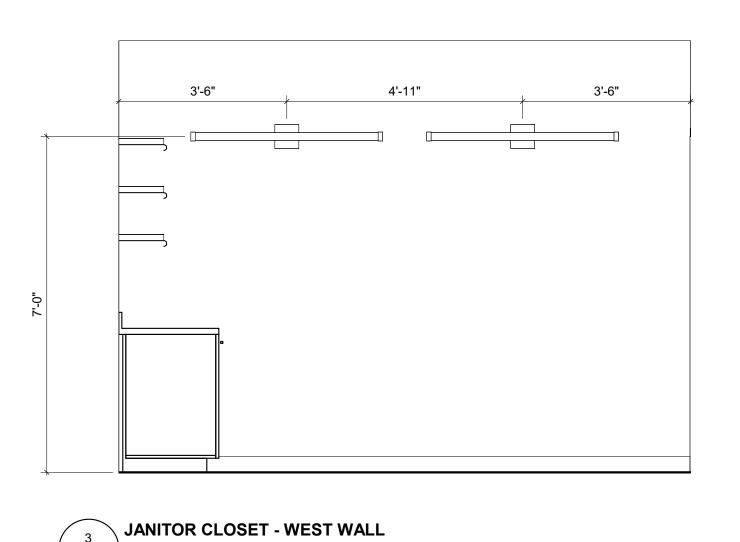
ISSUE LIST **BID ISSUE**

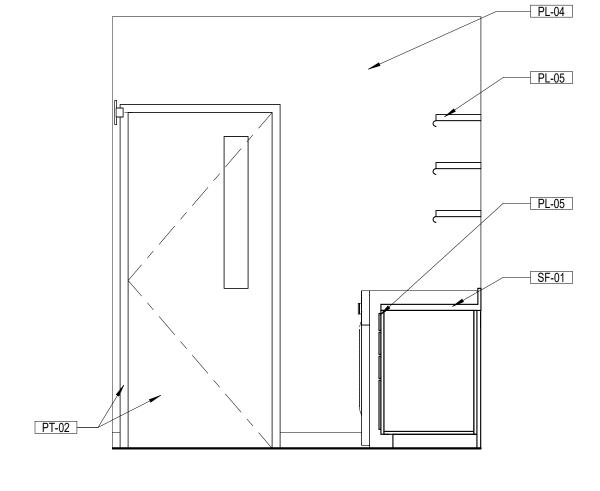
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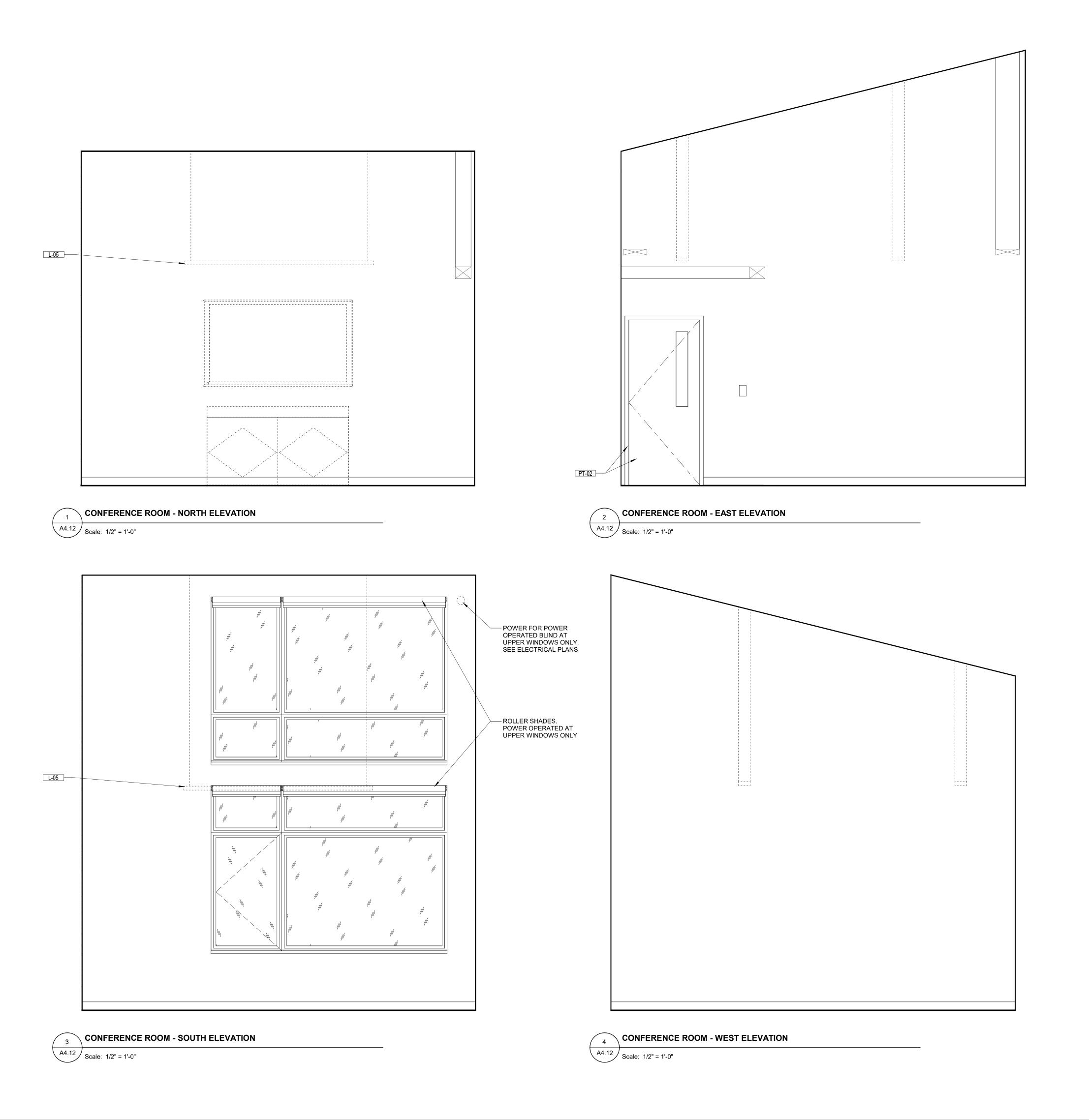
JANITOR CLOSET
ELEVATIONS

A4.11









ISSUE LIST **BID ISSUE** 03/21/2024 CONFERENCE ROOM ELEVATIONS

A4.12



ISSUE LIST BID ISSUE 03/21/2024

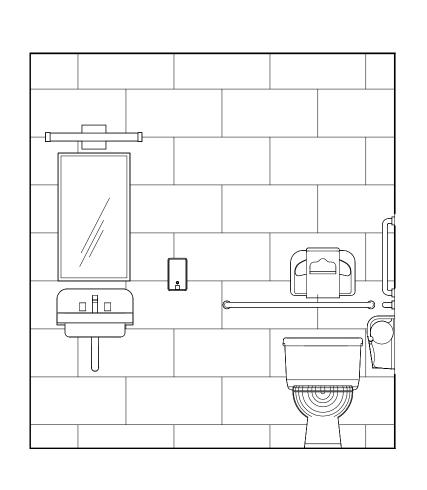
PRIVATE OFFICE 206 ELEVATIONS A4.13

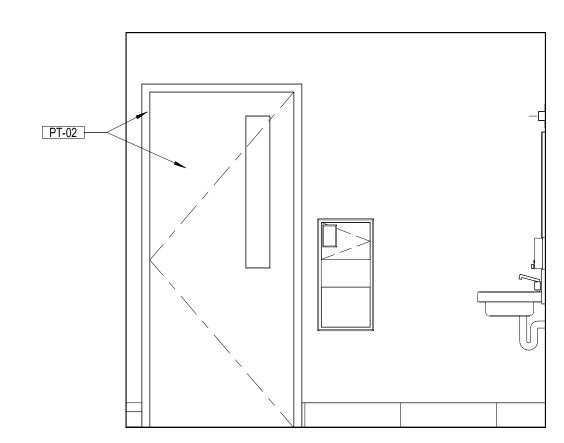
03/21/2024

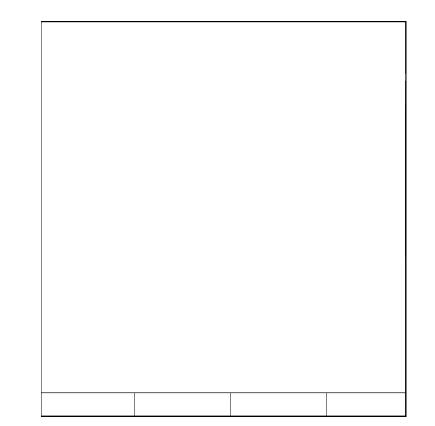
LEVEL 2
RESTROOMS

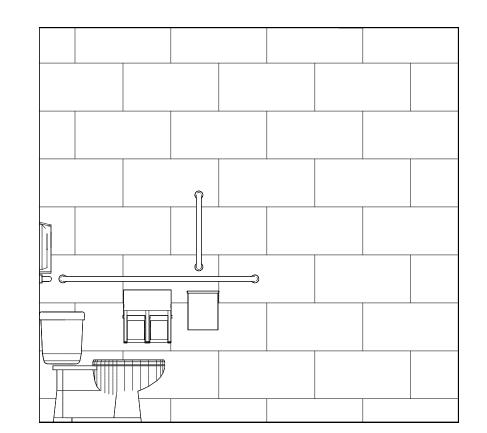
A4.14

ISSUE LIST BID ISSUE









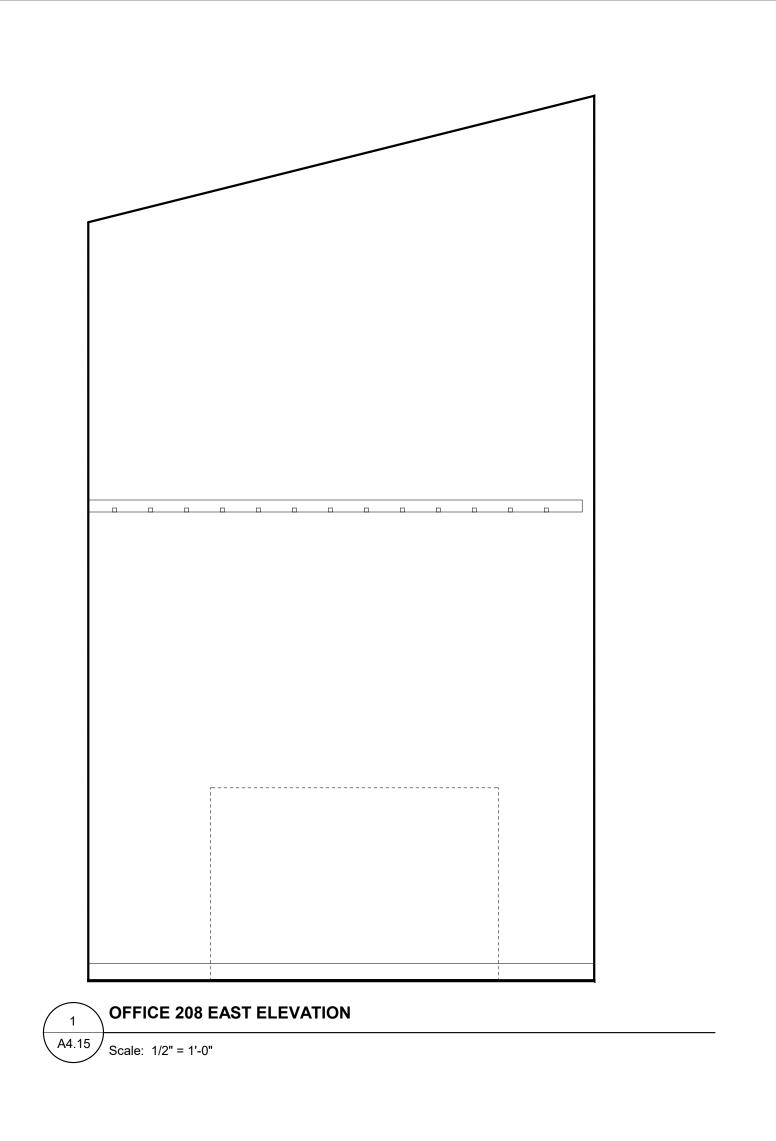
A4.14 Scale: 1/2" = 1'-0"

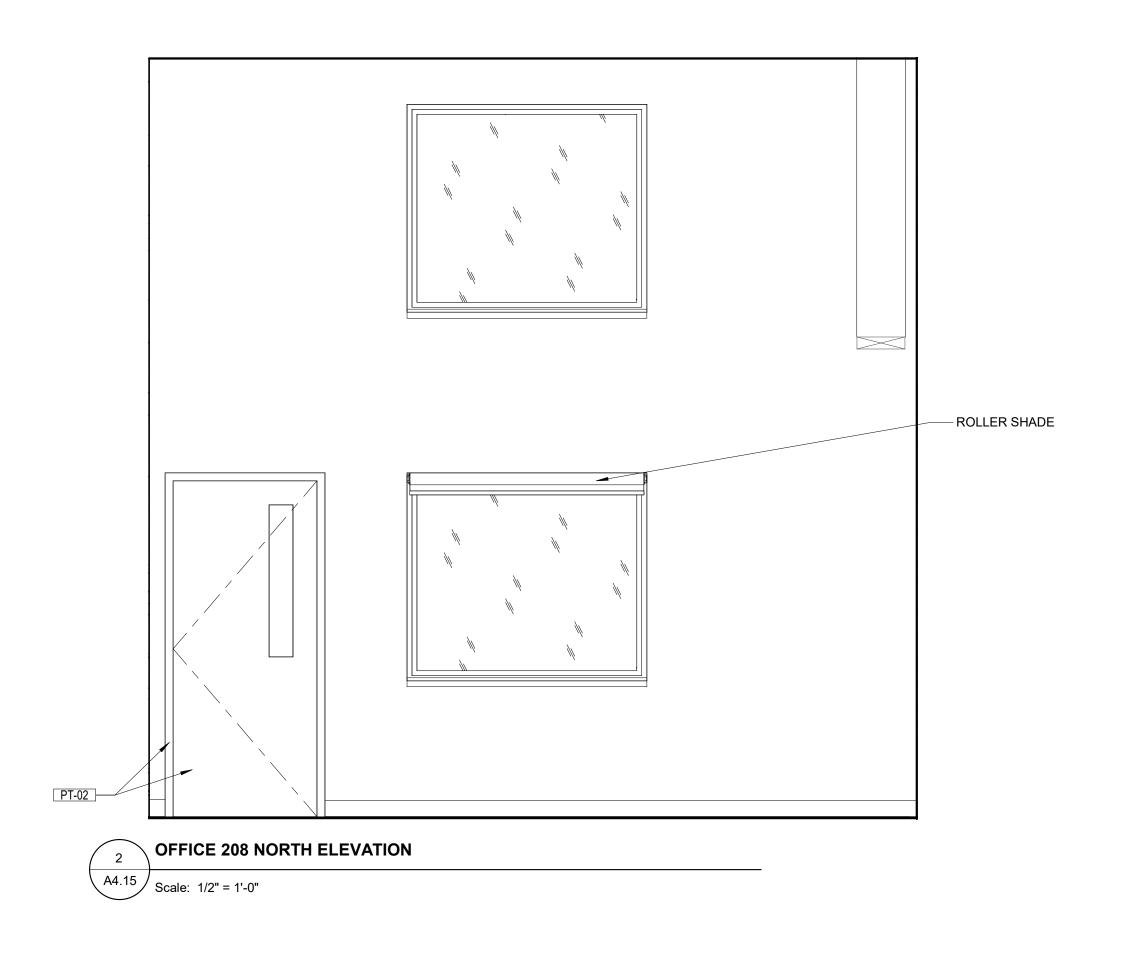
FLOOR 2 MEN'S RESTROOM SOUTH (WOMEN'S RESTROOM SOUTH SIM. OPP.)

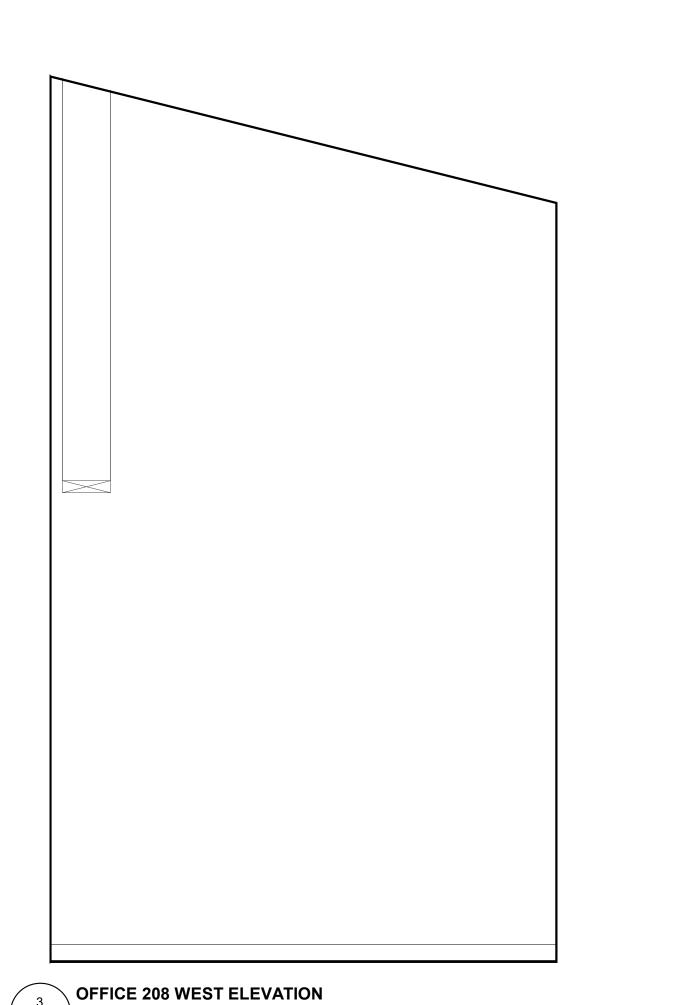
A4.14 Scale: 1/2" = 1'-0"

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

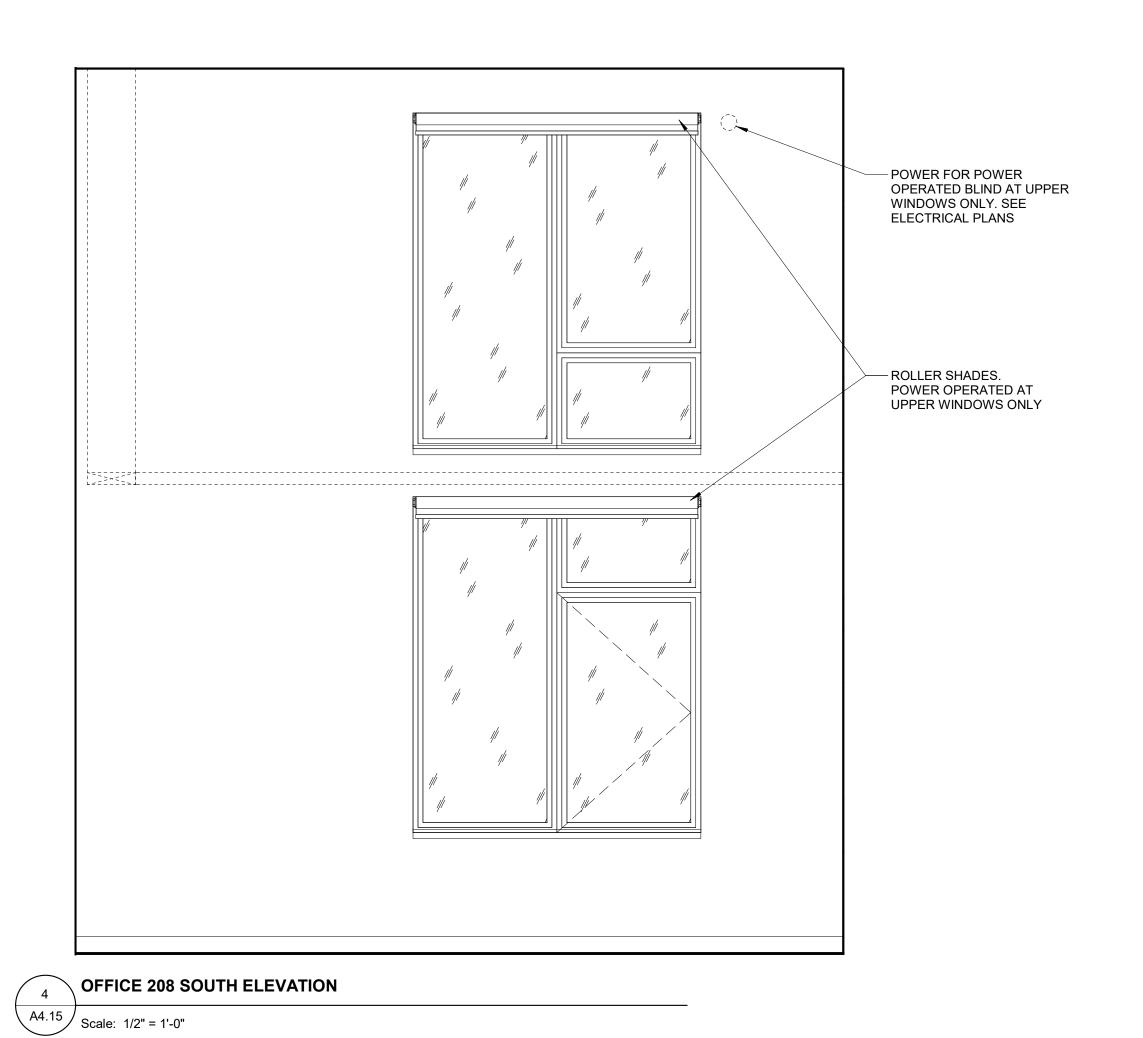
A4.14 Scale: 1/2" = 1'-0"







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



PRIVATE OFFICE
ELEVATIONS OFFICE 208

A4.15

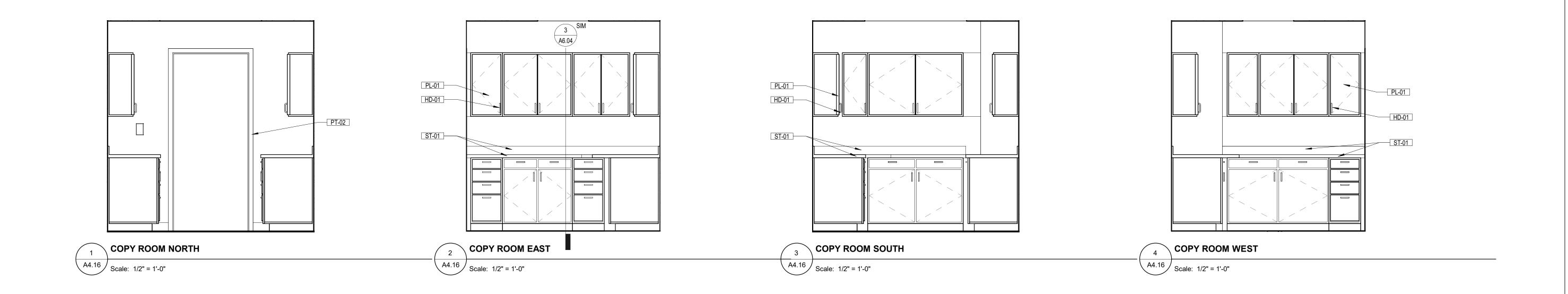
BID ISSUE

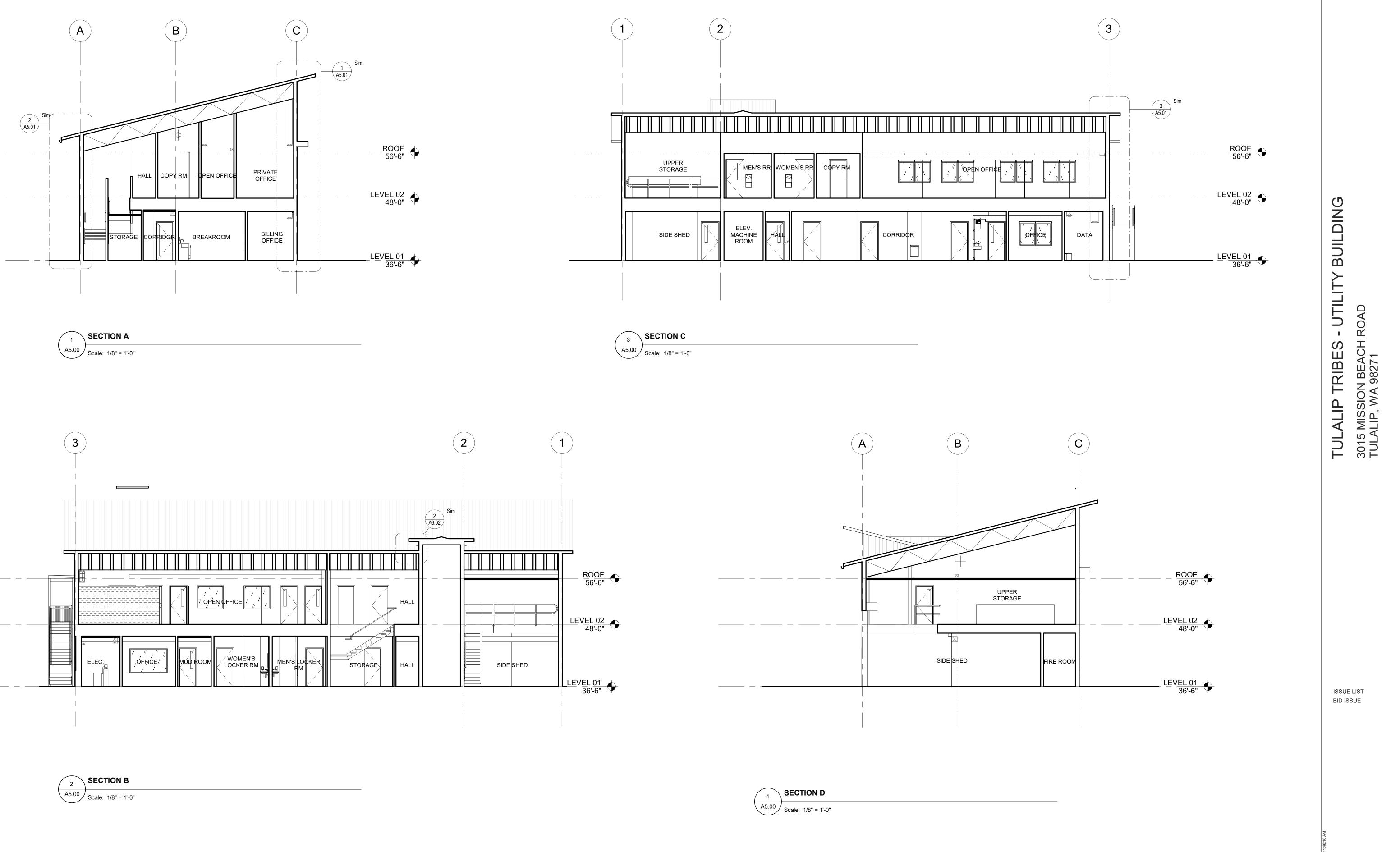
03/21/2024

03/21/2024

COPY ROOM ELEVATIONS

A4.16

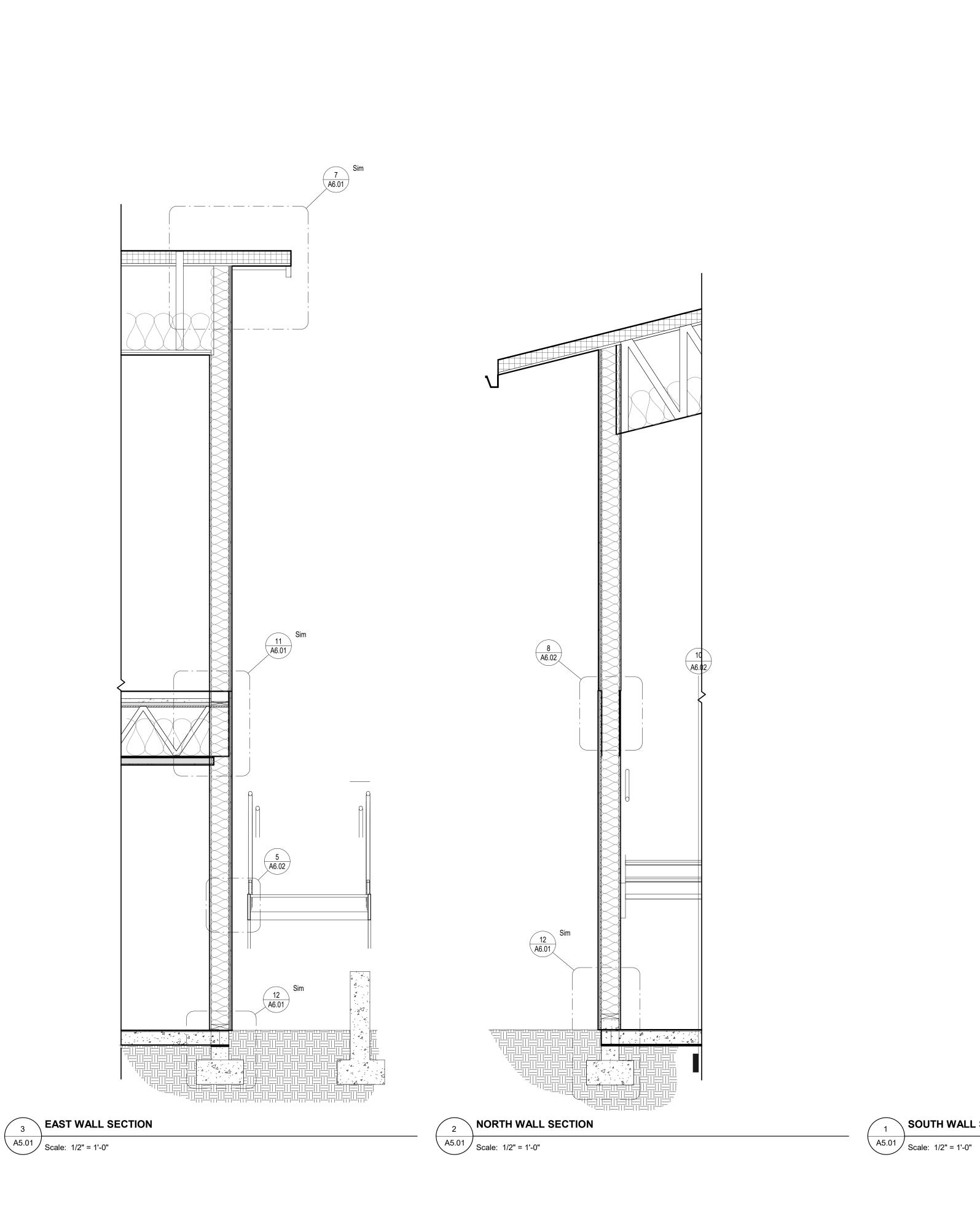


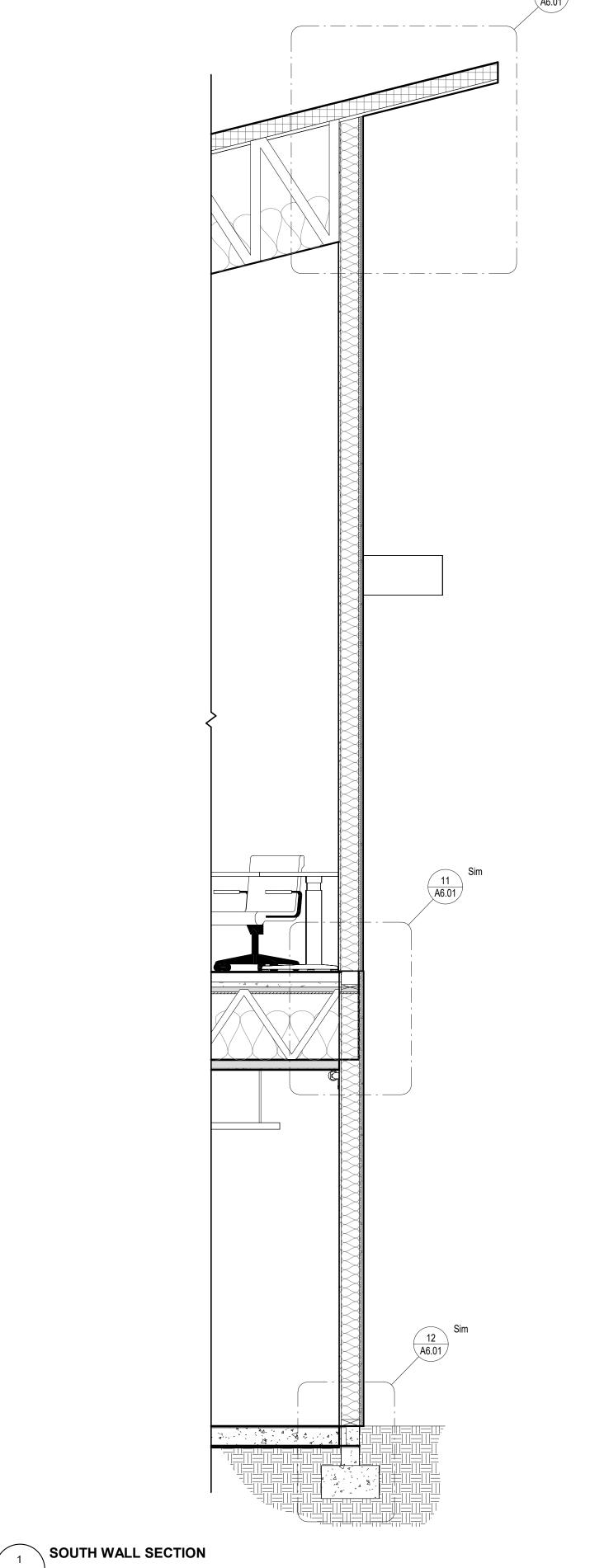


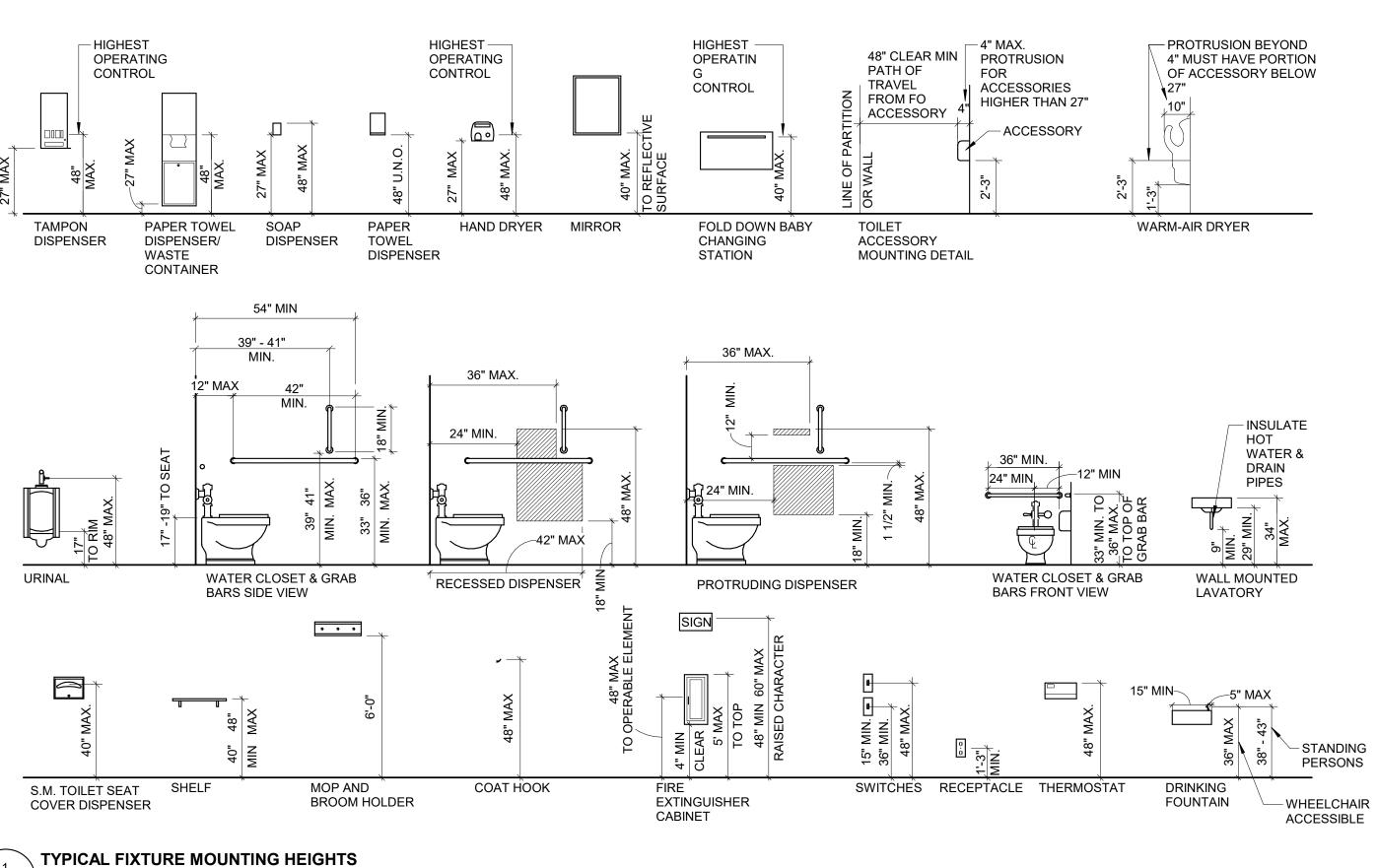
03/21/2024

BUILDING SECTIONS

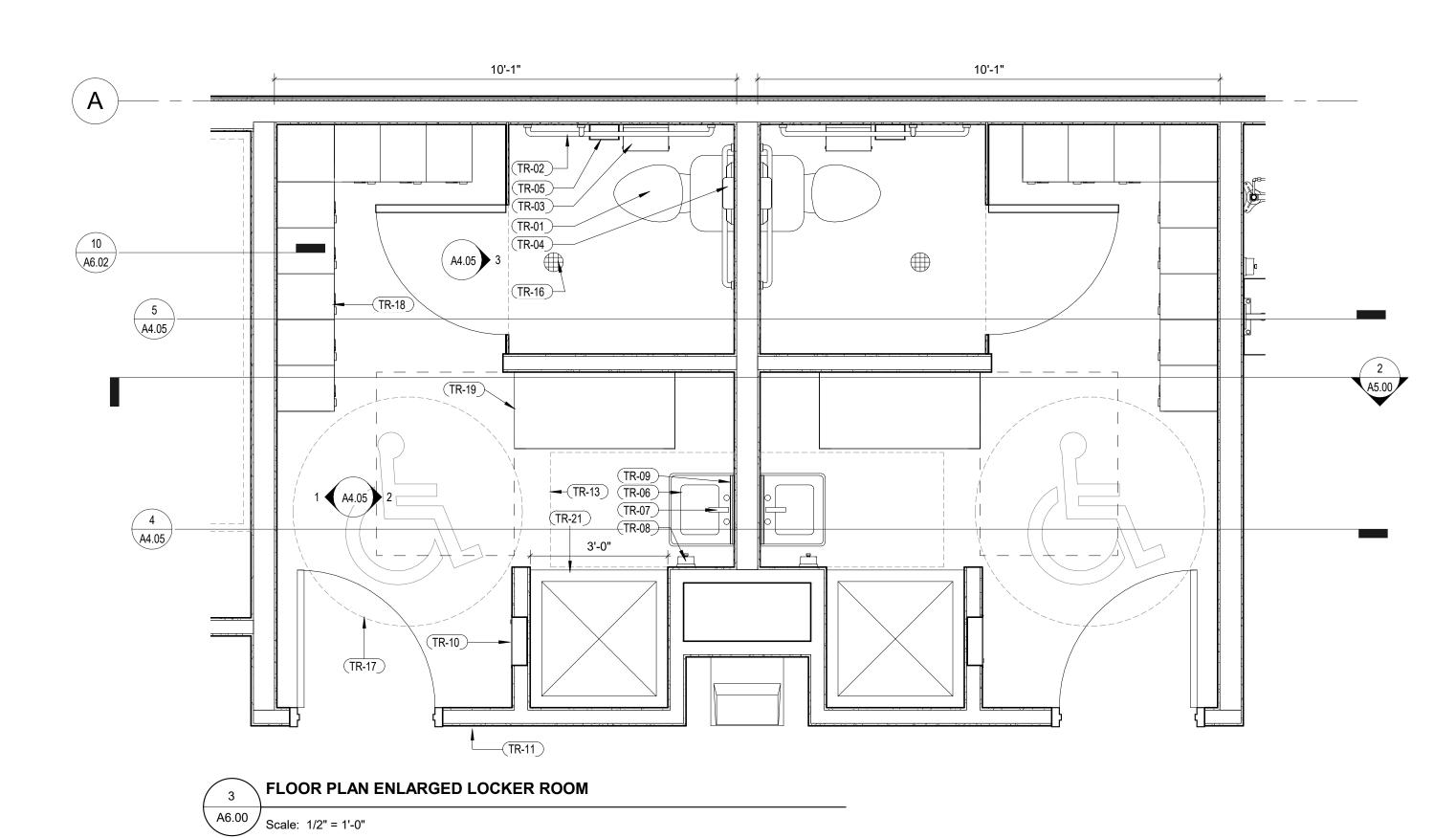
A5.00







1 TYPICAL FIXTURE WO
Scale: 6" = 1'-0"



KEYNOTES - TOILET ROOM

12"W x15"D LOCKER

3' X 3' ADA SHOWER

3'6" X 1'8" LOCKER BENCH

4' X 3' CLEAR FLOOR SPACE FOR ACCESS TO BENCH

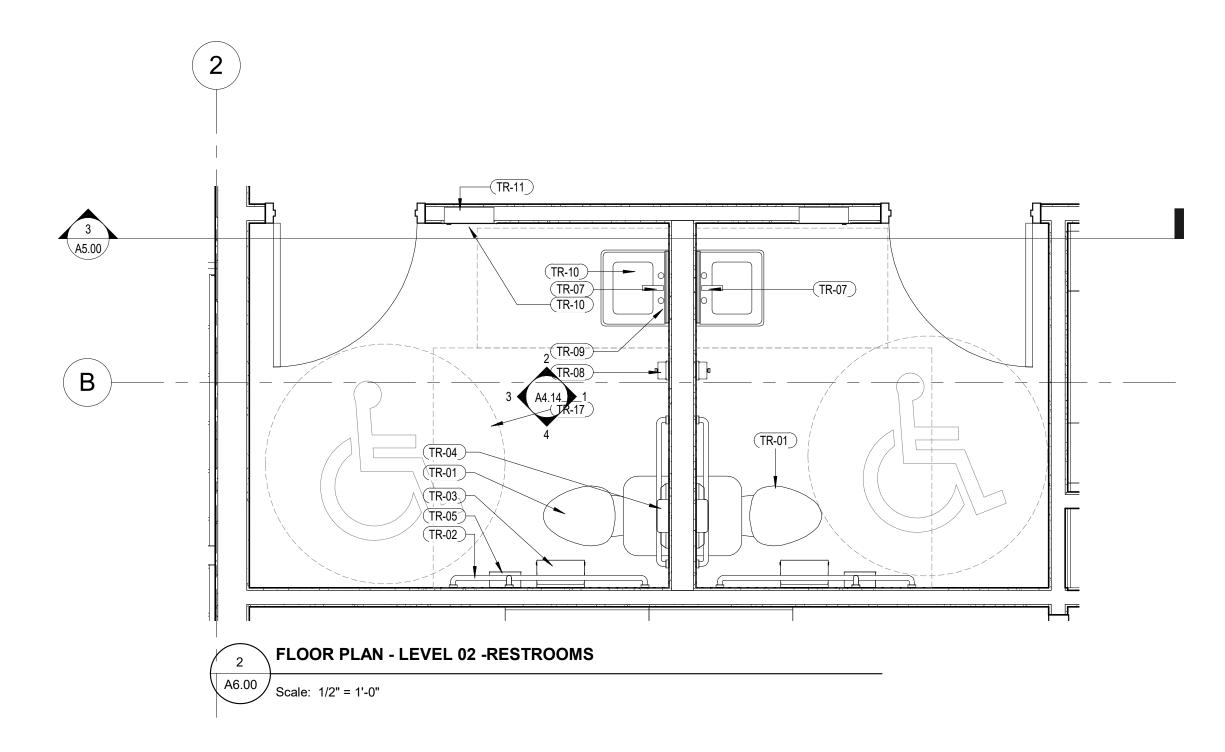
TR-01	FLOOR MOUNTED, PRESSURE ASSISTED TANK-TYPE ACCESSIBLE TOILET PER PLUMBING DRAWINGS
TR-02	ACCESSIBLE GRAB BARS. SEE DETAIL 1/6.00 FOR MOUNTING HEIGHTS
TR-03	WALL MOUNTED TOILET PAPER DISPENSER
TR-04	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
TR-05	SANITARY NAPKIN DISPOSAL
TR-06	ACCESSIBLE WALL 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

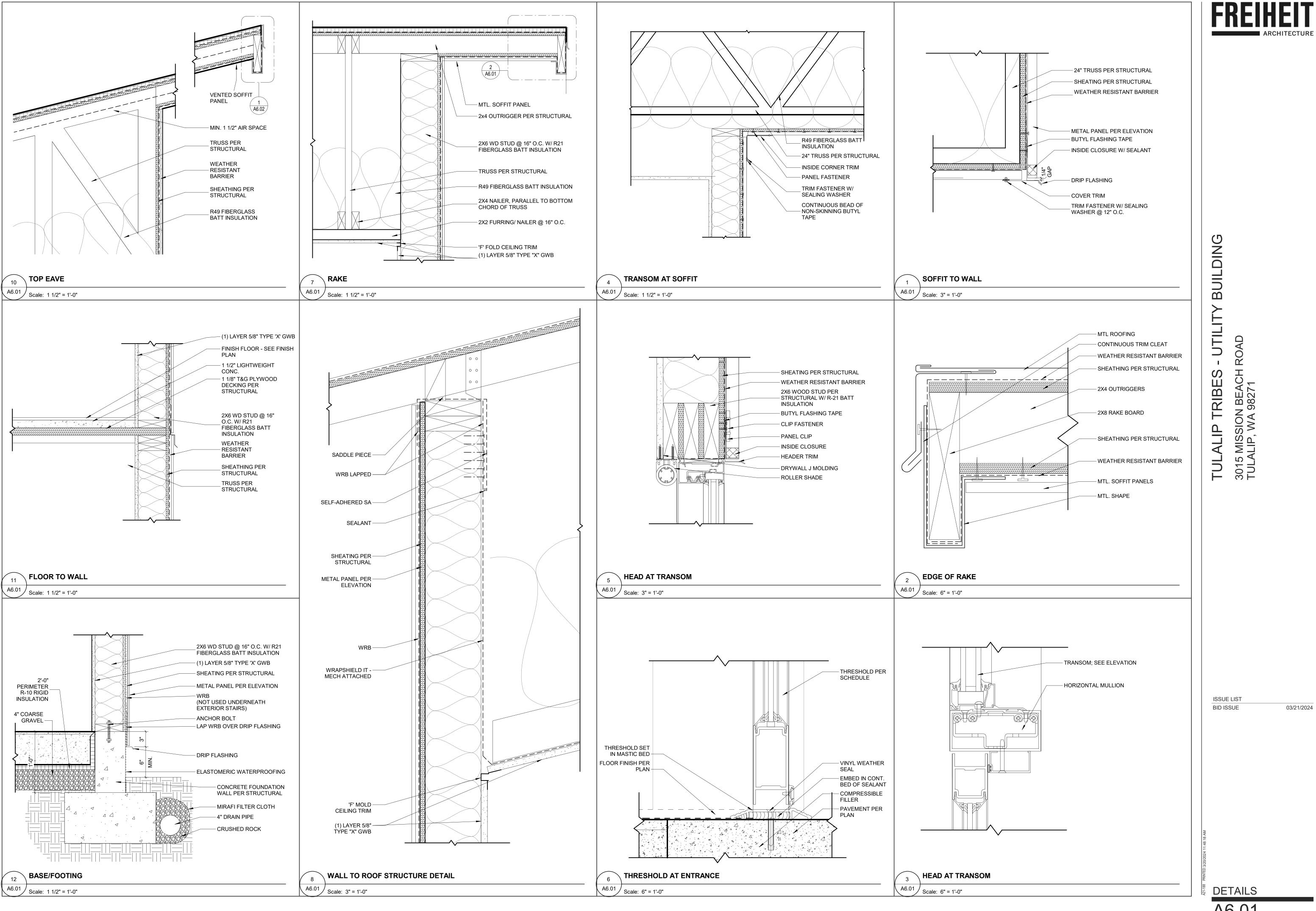
REHEIT

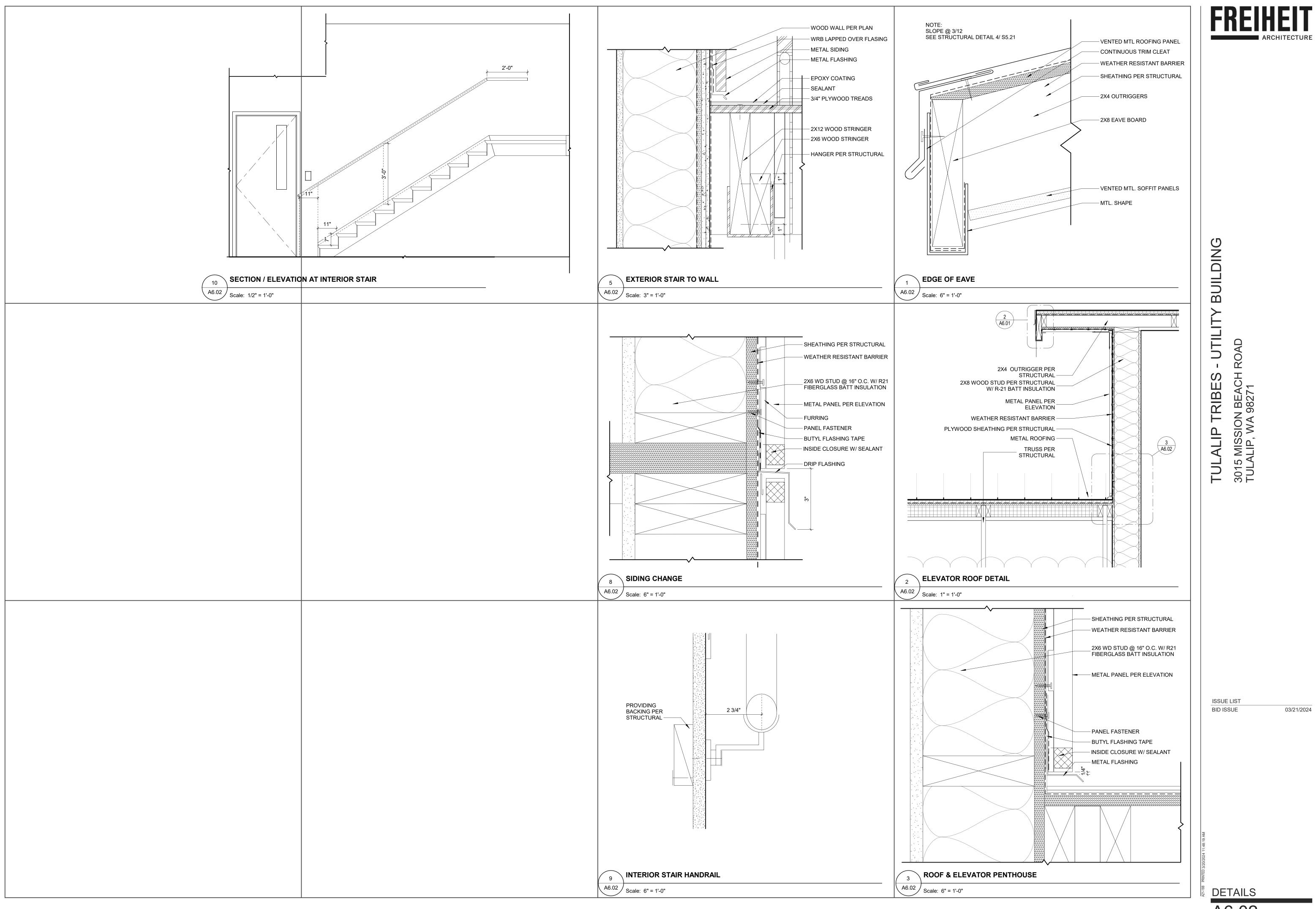
TULALIP TRIBES - UTILITY BU

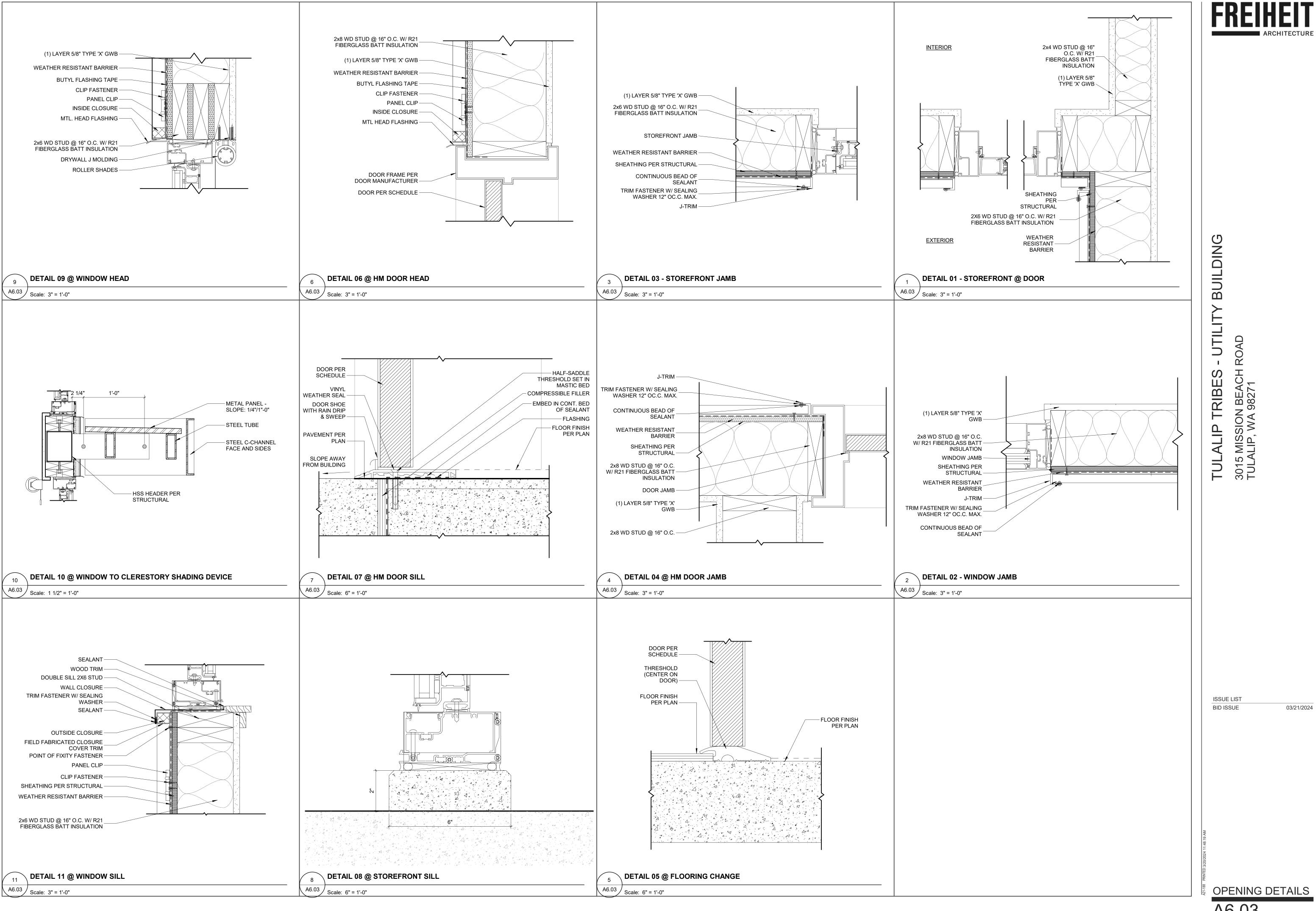
| ISSUE LIST | | 03/21/2024 |

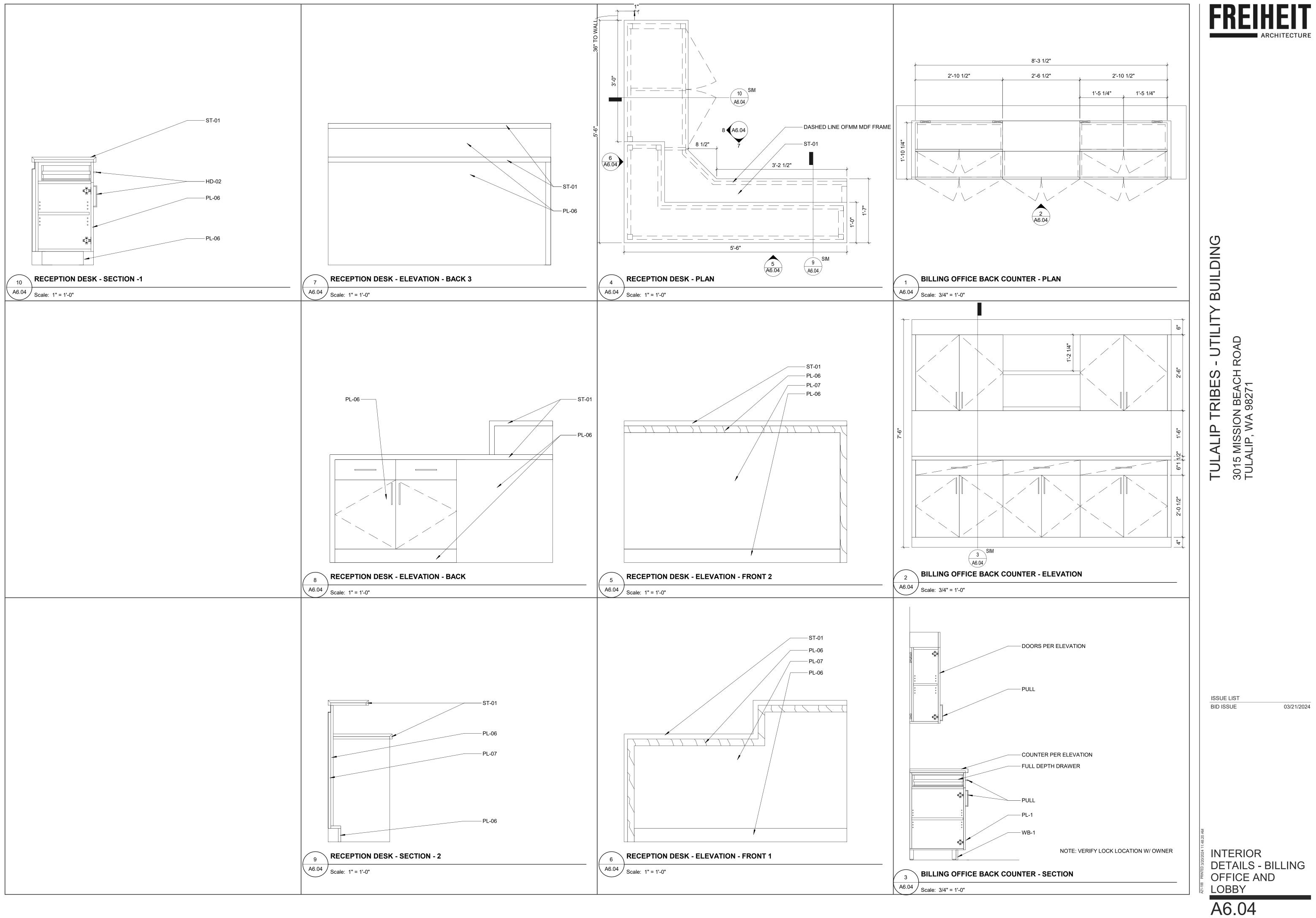
RESTROOM
ENLARGED
PLANS, DETAILS

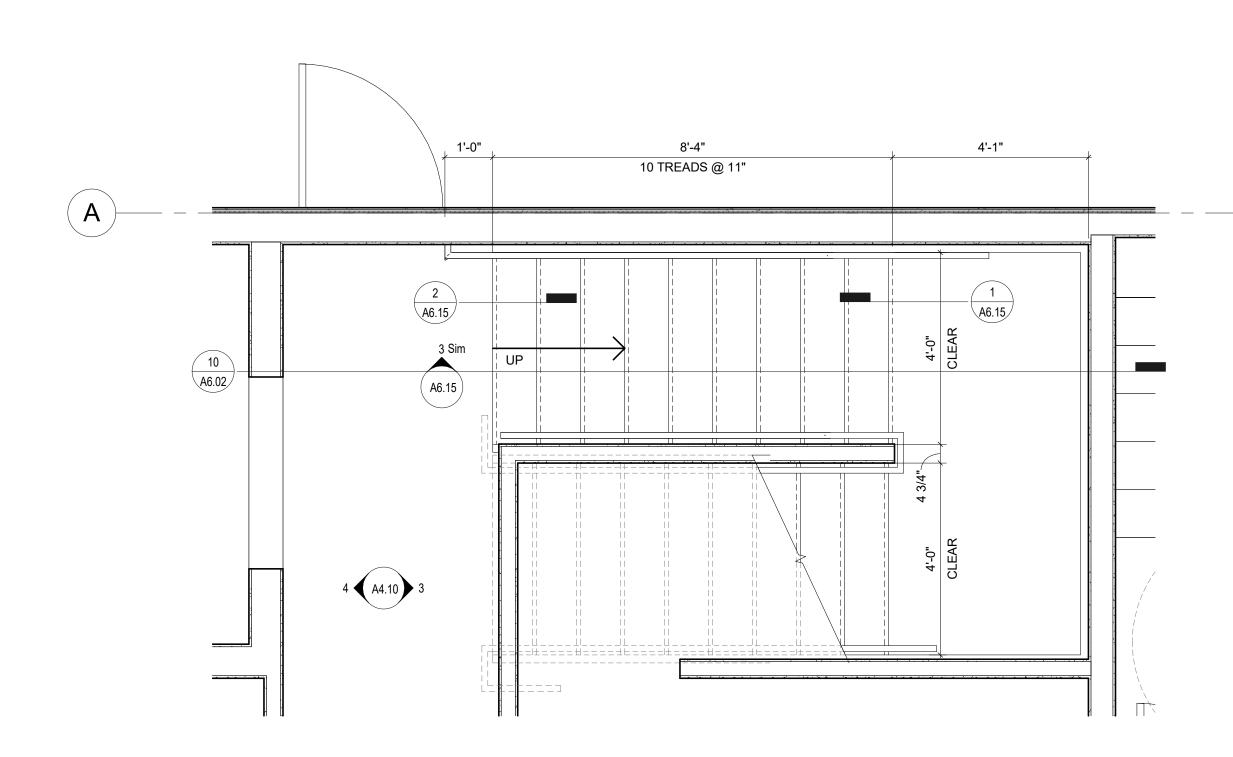


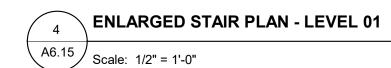


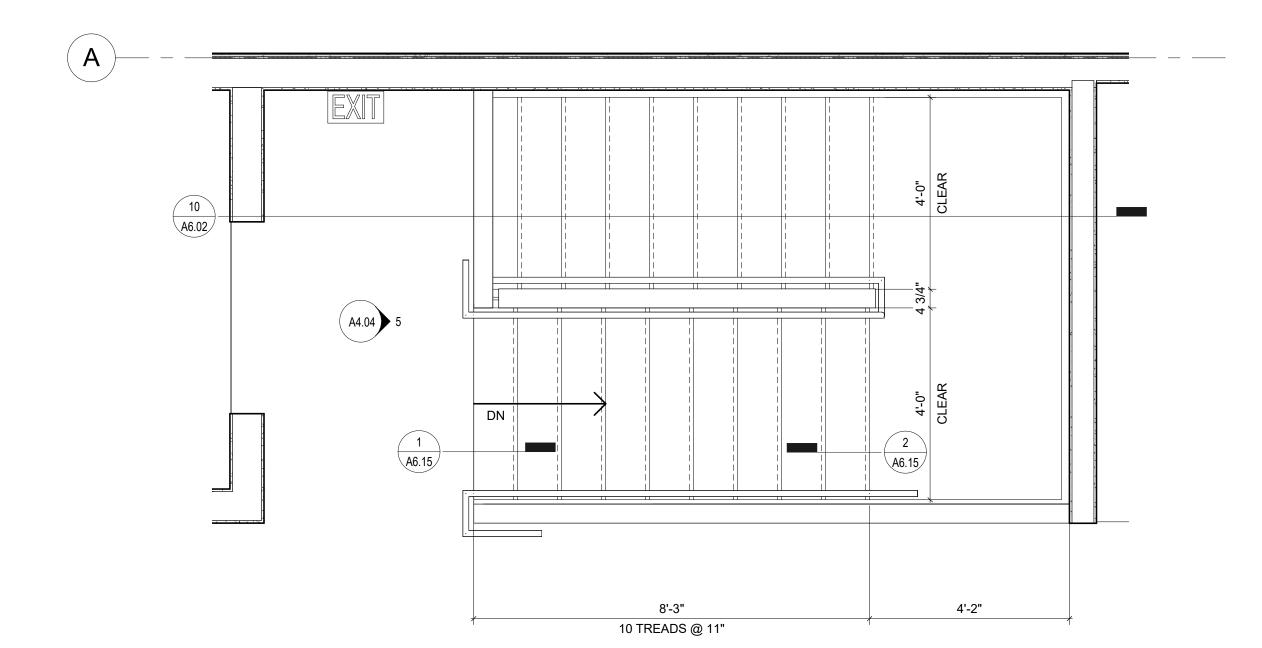




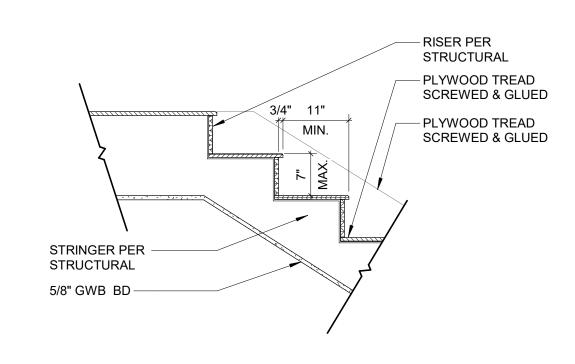














BUILDING

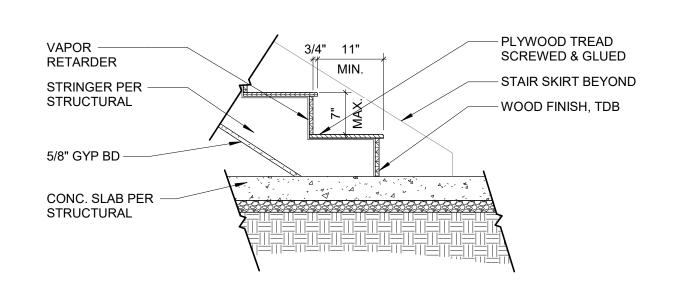
UTILITY

TRIBES

3015 MISSION BEACH TULALIP, WA 98271



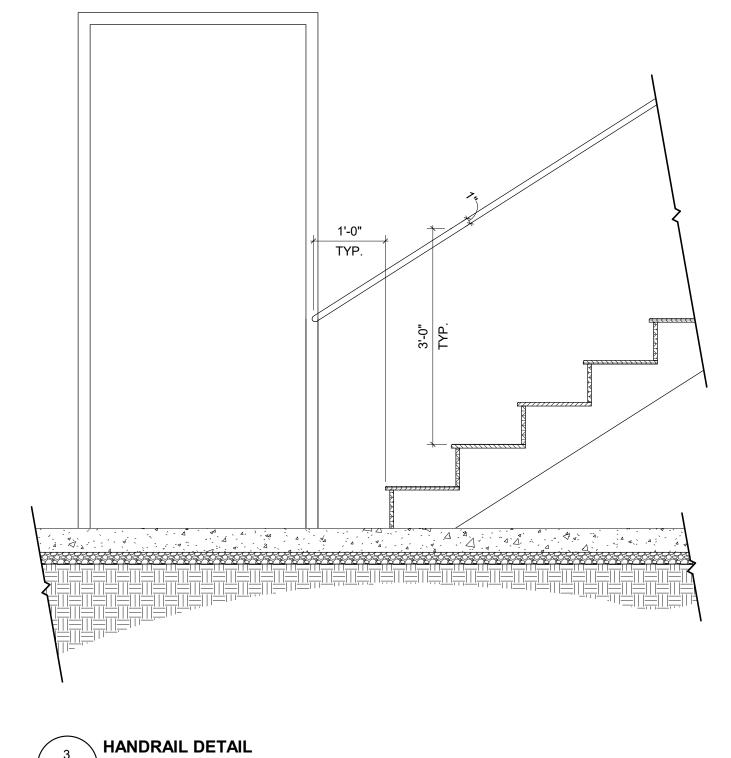
A6.15 Scale: 3/4" = 1'-0"



STAIR AT SLAB ON GRADE

A6.15 Scale: 3/4" = 1'-0"

A6.15 Scale: 3/4" = 1'-0"

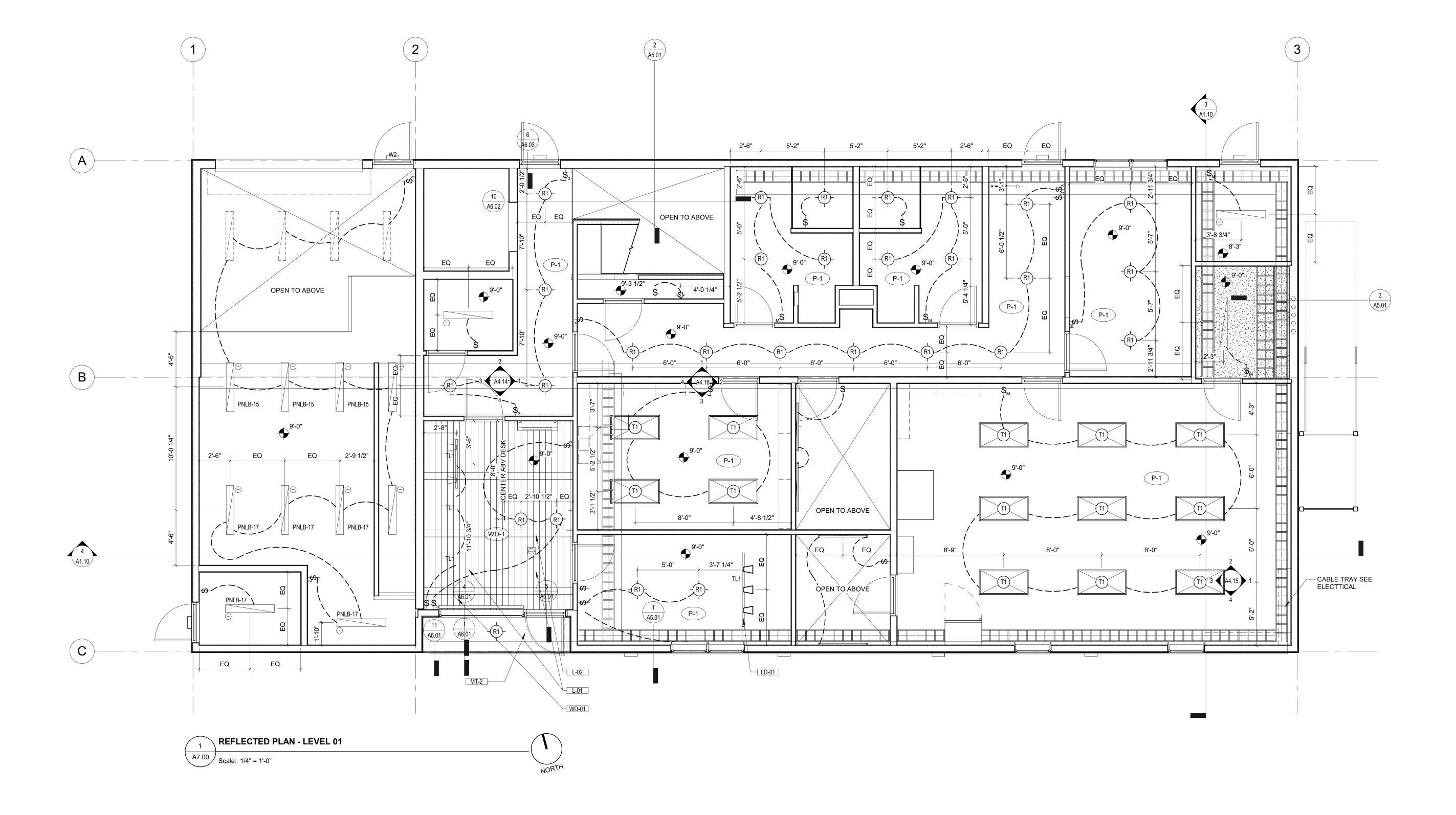


STAIR ENLARGED PLAN & DETAILS

A6.15

ISSUE LIST BID ISSUE

03/21/2024



GENERAL NOTES - REFLECTED CEILING PLAN

- 1. HVAC NOISE CRITERIA:
- 1. DISCHARGE SOUND BASED ON FOLLOWING **ARI 885** ATTENUATION CONDITIONS:
- A. ENVIRONMENTAL EFFECT: PER ARI 885 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.
- 7. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND COVERED FINISHED WITH ONE COVER PLATE U.N.O.
- 8. PROVIDE ADDITIONAL SWITCHING CONTROL REQUIRED BY **NREC.**
- 9. LIMIT SWITCH CONTROL TO 80% LOAD OF A 20 AMP CIRCUIT. PER **NREC 1513.2**
- 10. 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.
- 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

ALL DAYLIGHTED ZONES AND DAYLIGHT ZONE CONTROLS SHALL COMPLY WITH THE 2018 WASHINGTON

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.

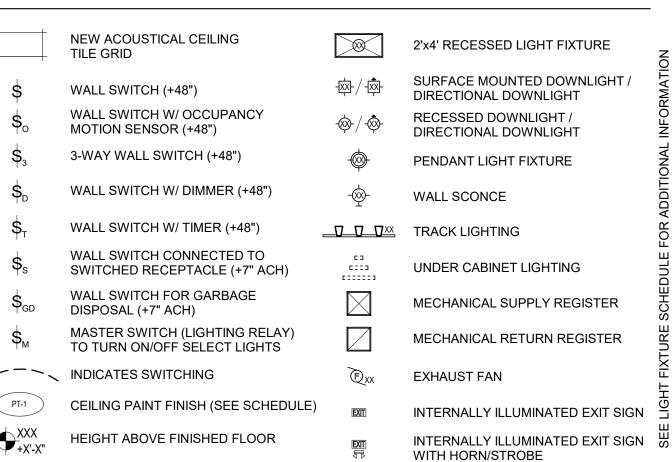
DAYLIGHT SENSING CONTROLS SHALL CONTROL ONLY LUMINAIRES WITHIN THE DAYLIGHTED AREA.

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.

LEGEND - REFLECTED CEILING PLAN

CABLE TRAY



REFLECTED **CEILING PLAN** LEVEL 01

FIRE SPRINKLER (BIDDER DESIGN)

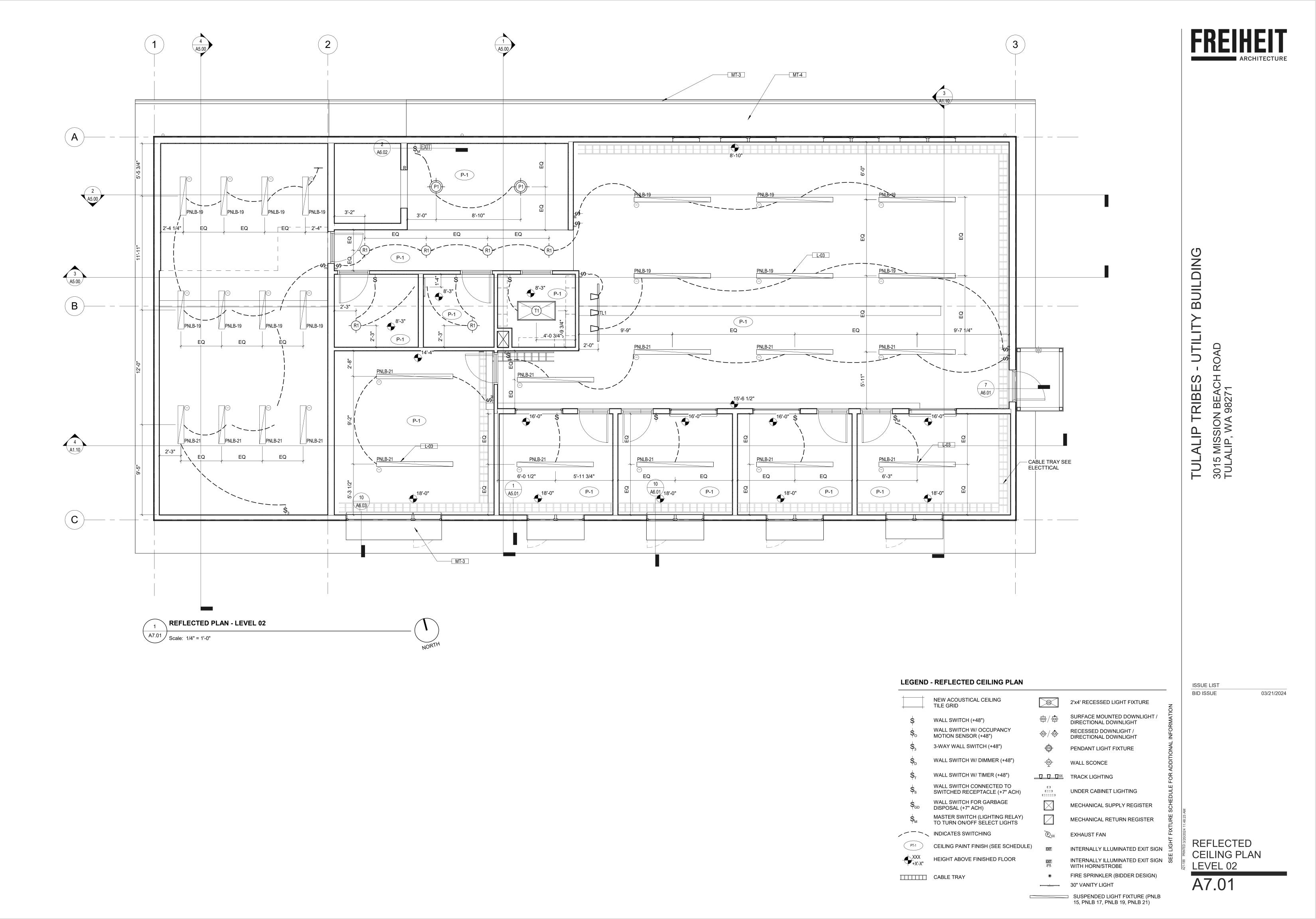
15, PNLB 17, PNLB 19, PNLB 21)

30" VANITY LIGHT

SUSPENDED LIGHT FIXTURE (PNLB

ISSUE LIST **BID ISSUE**

03/21/2024



MISCELLANEOUS ACCESSORIES & HARDWARE SCHEDULE

CABINET DOOR PULLS	MFR: HAFELE	HANDLES TO BE INSTALLED PER
	STYLE: MODERN ZINC #103.84.003 (96mm CTC) FINISH: BRUSHED NICKEL	ORIENTATION ON ELEVATIONS
CORNER GUARDS	MFR: ECKSTROM INDUSTRIES, INC STYLE: FULL HEIGHT 1" STAINLESS STEEL CONTACT: GLEN BIRKVOLD (GLEN@ECKSTROMIND.COM)	SEE FINISH PLAN FOR LOCATIONS
WIRE GROMMETS	MFR: MOCKETT STYLE: PLASTIC GROMMETS FINISH: TBD	VERIFY LOCATIONS WITH CLIENT
IN-WALL SUPPORTS	STYLE: IN-WALL STEEL SUPPORT BRACKETS FINISH: TBD	CUT BACK BRACKETS A MINIMUM OF 6" FROM FRONT FACE OF COUNTERTOPS
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
RESTROOMS		
GRAB BARS	MFR: BOBRICK STYLE: 1 1/2" DIAMETER GRAB BARS #B-6806x36"/#B-6806x42"/#B-6806x18" FINISH: SATIN STAINLESS	
TOILET SEAT COVER DISPENSER	MFR: BOBRICK STYLE: SURFACE MOUNTED DISPENSER #B-221 FINISH: SATIN FINISH	
TOILET TISSUE DISPENSER	MFR: BOBRICK STYLE: RECESSED MULTI-ROLL DISPENSER #B-6977 FINISH: SATIN FINISH	
PAPER TOWEL DISPENSER	MFR: BOBRICK STYLE: DISPENSER #B-35903 FINISH: SATIN FINISH	
PAPER TOWEL DISPENSER	MFR: BOBRICK STYLE: SURFACE MOUNTED DISPENSER #B-2620 FINISH: SATIN FINISH	
WC COAT HOOKS	MFR: BOBRICK STYLE: B-985	MOUNT HOOKS PER ADA, UNO PROVIDE IN-WALL BACKING AS NEEDED VERIFY EXACT LOCATIONS WITH CLIENT
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-MOUNT SOAP DISPENSOR	EDMFR: BOBRICK STYLE: B-822	
WALL-MOUNT SOAP DISPENSOR	EDMFR: BOBRICK	
SANITARY NAPKIN DISPOSAL	MFR: BOBRICK	
UNIT		
TOWEL	MFR: BOBRICK	
TOWEL HOOK SHOWER CURTAIN	MFR: BOBRICK MFR: BOBRICK	
TOWEL HOOK SHOWER CURTAIN ROD		
TOWEL HOOK SHOWER CURTAIN ROD SHOWER CURTAIN SHOWER CURTAIN	MFR: BOBRICK	
TOWEL HOOK SHOWER CURTAIN ROD SHOWER CURTAIN SHOWER CURTAIN HOOKS UNDER LAVATORY	MFR: BOBRICK MFR: BOBRICK	
TOWEL HOOK SHOWER CURTAIN ROD SHOWER CURTAIN SHOWER CURTAIN HOOKS UNDER LAVATORY GUARD UTILITY SHELF	MFR: BOBRICK MFR: BOBRICK	
TOWEL HOOK SHOWER CURTAIN ROD SHOWER CURTAIN SHOWER CURTAIN HOOKS UNDER LAVATORY GUARD UTILITY	MFR: BOBRICK MFR: BOBRICK MFR: BOBRICK	

MOP BASIN	MFR: ZURN STYLE: Z1996 MOP SINK FINISH: STAINLESS STEEL	JANITOR CLOSET
WASH-UP SINK	MFR: BOBRICK STYLE: JS-122-T WITH JS-47-TGSA FAUCET AND J-35-SSF DRAIN	
WASHBASIN GROUND	MFR: DURAVIT STYLE: #2350800027 / 2350800025 / 2350800028, WALL-MOUNTED WITH FAUCET DECK	
SHED		
PIT FINISH SAFETY RAIL	MFR: SAFETY RAIL COMPANY LLC STYLE: 4' PIT FINISH SAFETY RAIL FINISH: XXX	LEVEL 2 SHED NOT FIXED
PIT SAFETY RAIL	MFR: SAFETY RAIL COMPANY LLC STYLE: 4' PIT SAFETY RAIL FINISH: XXX	LEVEL 2 SHED NOT FIXED
CORNER RAIL	MFR: SAFETY RAIL COMPANY LLC STYLE: ACCU-FIT KIT 6X6' CORNER	LEVEL 2 SHED FIXED

GENERAL NOTES - ACCESSORIES & HARDWARE

FINISH: XXX

- 1. PROVIDE FINISH HARDWARE FOR COMPLETE WORK IN COMPLIANCE WITH ADA. QUANTITIES, WHERE LISTED, ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. VERIFY ALL COUNTS.
- 2. HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDER'S HARDWARE SUPPLIER. PROVIDE SUBMITTAL FOR APPROVAL.
- 3. KEYS & KEYING: LOCKS TO BE KEYED ALIKE PER ROOM, UNO. PROVIDE (1) MASTER KEY FOR ALL CABINETS.
- 4. ALL HARDWARE AND ACCESSORIES TO BE INSTALLED PER ADA REQUIREMENTS, UNO 5. PROVIDE IN-WALL BACKING AS REQUIRED FOR ALL MISCELLANEOUS ACCESSORIES AND HARDWARE.

FINISH SCHEDULE

	MFR: ARMSTRONG COMMERCIAL CEILINGS STYLE: CIRRUS 580 PRECLUDE. XL 15/16" SUSPENSION	EDGE: ANGLED TANGULAR
	STYLE: CIRRUS 380 PRECLUDE: AL 15/16 SUSPENSION SYSTEM (OR EQUAL), CLASS A COLOR: WHITE	
METAL		
MT-1	MFR: AEP SPAN STYLE: FLEX SERIES COLOR: LEAF GREEN CONTACT: JEFFERY MEDEIROS	INSTALL PER MFR RECOMMENDATIONS
MT-2	MFR: AEP SPAN STYLE: FLEX SERIES COLOR: TO BE SELECTED FROM MFR STANDARD COLORS CONTACT: JEFFERY MEDEIROS	LEVEL 2 EXTERIOR
MT-3	MFR: AEP SPAN STYLE: DESIGN SPAN COLOR: MIDNIGHT BRONZE CONTACT: JEFFERY MEDEIROS	LEVEL 2 EXTERIOR
MT-4	MFR: AEP SPAN STYLE: FLUSH PANEL COLOR: TO BE SELECTED FROM MFR STANDARD COLORS CONTACT: JEFFERY MEDEIROS	LEVEL 2 EXTERIOR
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
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
PT-03	MFR: BENJAMIN MOORE COLOR: HC-158 NEWBURG GREEN FINISH: EGGSHELL @ WALLS	ACCENT WALL PAINT OFFICES ONE COAT PRIMER, TWO COATS PAINT
PLASTIC LAN	IINATE	
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
PL-2	MFR: PIONITE COLOR: WHITE FINISH: FRL SUEDE - FS587 CONTACT: SAMANTHA MOON - 360-710-3787	FRL CORRIDOR AND ROOM WALLS 1ST LEVEL
PL-4	MFR: PER GC FINISH: WHITE SMOOTH, FRP, 4' X 8' SHEETS, CLASS A CONTACT: SAMANTHA MOON - 360-710-3787	
PL-5	MFR: WILSONART DESIGNER WHITE	
	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH	
PL-6	STYLE: #D354	
PL-6	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF	
	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION	
PL-7	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION	QUARTZ COUNTERTOP LOBBY / BILLING ROOM
PL-7 STONE ST-1 RESILIENT B	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE	LOBBY / BILLING ROOM
PL-7 STONE ST-1 RESILIENT B	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870	LOBBY / BILLING ROOM ALL (UON)
PL-7 STONE ST-1 RESILIENT B RB-1	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE 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)
PL-7 STONE ST-1 RESILIENT B	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS
PL-7 STONE ST-1 RESILIENT B RB-1	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24"	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS
PL-7 STONE ST-1 RESILIENT B RB-1 TILE TL-1	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24"	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24
PL-7 STONE ST-1 RESILIENT B RB-1 TILE TL-1	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24" CONTACT: LISA ANDERSON - 206-730-3394	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24
PL-7 STONE ST-1 RESILIENT B RB-1 TL-1 TL-2	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24" CONTACT: LISA ANDERSON - 206-730-3394 DD VENEER SCHEDULE MFR: REAL CEDAR COLOR: T&G SMOOTH V-JT FACE FINISH: CEDAR PANELING - KILN DRIED #WRCLA, CLASS A FINISH	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WESTERN RED CEDAR LOBBY HORIZONTAL INSTALLATION
PL-7 STONE ST-1 RESILIENT B RB-1 TL-1 TL-2 WOOD / WOO WD-1	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 20M CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24" CONTACT: LISA ANDERSON - 206-730-3394 DD VENEER SCHEDULE 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 MFR: TABU COLOR: SATIN CLEAR COAT FINISH: MN.28.021 CONTACT: MATERIALS INC 201-968-0101	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WESTERN RED CEDAR LOBBY HORIZONTAL INSTALLATION FRP RECEPTION 2 COATS POLYURETHANE TOP COAT, SAT
PL-7 STONE ST-1 RESILIENT B RB-1 TL-1 TL-2 WOOD / WOO WD-1 WD-2	STYLE: #D354 FINISH: W/ ANTI-MICROBIAL FINISH MFR: WILSONART PREMIUM STYLE: LAMINATE REVEAL IN WHITE FOREST, W/ MDF BACKING MFR: MOZ DESIGNS STYLE: ALUMINUM FACING. BLENDS PATINA COLLECTION IN 212, W/ MDF BACKING MFR: CAMBRIA COLOR: IRONSBRIDGE FINISH: POLISHED - 2CM CONTACT: ALISHA McFARLAND - 206-409-3870 ASE MFR: JOHNSONITE MODEL: THERMOSET - TS FINISH: BLACK CONTACT: NORA VIVARELLI - 206-409-3870 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: UPS, SIZE 24" X 24" CONTACT: LISA ANDERSON - 206-730-3394 MFR: CROSSVILLE COLOR: SHADES 2.0 - SHD45 CLAY FINISH: SPO, SIZE 12" X 24" CONTACT: LISA ANDERSON - 206-730-3394 DD VENEER SCHEDULE 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 MFR: TABU COLOR: SATIN CLEAR COAT FINISH: MN.28.021 CONTACT: MATERIALS INC 201-968-0101	ALL (UON) 4" BASE, 4" W/TOE (NOT USED ON CEDAR WALL) FLOOR TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WALL TILE BATHROOMS 1/8" GROUT: LATICRETE SPECTRALOC - 24 NATURAL GREY WESTERN RED CEDAR LOBBY HORIZONTAL INSTALLATION FRP RECEPTION 2 COATS POLYURETHANE TOP COAT, SAT

FLOORING

MFR: MOHAWK

MODEL: LARGE AND LOCAL FINISH: 855 BLY

MFR: ROPPE MODEL: RUBBER TREAD #95 HAMMERED FINISH: 193-BLACK BROWN

MFR: PER GC COLOR: DCOF OF. 42 OR GREATER FINISH: ANTI-SLIP, HONED FINISH

MFR: PER GC COLOR: CHARCOAL GREY; OR SIMILAR FINISH: ANTI-SLIP

MFR: 304 S/S INTEGTRATED MODEL: 16 GA. TOP AND 4" SPLASH

MFR: TECH LIGHTING MODEL: BURK HEAD 700MORK9303506B FINISH: BLACK/ SATIN NICKEL CONTACT: SEA-TAC LIGHTING - 206-575-6865

MFR: TECH LIGHTING MODEL: WINDSOR PENDANT 700MOWDSBS-LED930 FINISH: BLACK / SATIN NICKEL CONTACT: SEA-TAC LIGHTING - 206-575-6865

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

MODEL: FINO LED BATH BAR #3773.25
FINISH: SATIN BLACK
CONTACT: SEA-TAC LIGHTING - 206-575-6865

MFR: LAMIN-ART STYLE: RIFT-GRAIN FINISH COLOR: 974-RG BROWN ANNIRGRE

MFR: INTERFACE MODEL: OPEN AIR 410

MFR: SONNOMAN

FL-01

FL-02

FL-03

FL-04

FL-05

FL-06

L-01

L-02

L-03

L-04

WALL COVERING

DECORATIVE LIGHTING

RUBBER SHEET FLOORING STAIRS STAIR NOSING TO MATCH
SEALED CONCRETE LAB, CORRIDOR, LOCKERS
EPOXY FLOORING SHED LEVEL 2
EPOXY FLOORING SHED LEVEL 2
CARPET TILE OFFICE LEVEL 2
DECORATIVE TRACKHEAD / SYSTEM LOBBY / BILLING ROOM REQUIRED COMPONENTS: MONORAIL #700MOA / ADJ. STANDOFF #700MOSADJ / 4: CANOPY #700MOP4C02 / END CAPS 700MOCCAP/ FLEX CONNECTORS #700MOCFXH
DECORATIVE TRACK PENDANT LOBBY / BILLING ROOM MONOPOINT SYSTEM
ADJUSTABLE TUBE LIGHT PENDANT 2ND FLOOR OFFICES ADD: EM10 FOR EMERGENCY BACKUP OR OS FOR OCCUPANCY SENSOR
BATH VANITY SCONCE ALL RESTROOMS
ACCENT WALL COVERING OPEN OFFICE STRAIGHT HANG/ STRAIGHT MATCH

BUILDING

TRIBE

SSION BEACH I

5 MISS _ALIP,

LVT PLANK FLOORING ALL AREAS

ISSUE LIST **BID ISSUE** 03/21/2024

SCHEDULES SCHEDULES

A9.00

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

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.



JLALIP TRIBES - UTILITY BUIL

ISSUE LIST BID ISSUE

03/21/2024

WALL SCHEDULE

A9.10

FLOOR SCHEDULE

FLOOR SCH	EDULE				
SYMBOL		DESCRIPTIO	N	REMARKS	RATING
	UNRAT	ED FLOOR - CEILING ASSEMBLY - 24		TO BE USED SOUTH OF	NON-RATED
			— FINISH FLOOR - SEE FINISH PLAN	GRID LINE B - SEE STRUCTURAL	
			— 1 1/2" LIGHTWEIGHT CONC.		
			— 1 1/8" T&G PLYWOOD DECKING		
			PER STRUCTURAL		
			— 24" TRUSS PER STRUCTURAL		
		< \\			
			- 5/8" SUSPENDED GWB CEILING		
		ı			
	UNRAT	ED FLOOR - CEILING ASSEMBLY - 20	"TRUSS	TO BE USED NORTH OF	NON-RATED
			— FINISH FLOOR - SEE FINISH PLAN	GRID LINE B	
			— 1 1/2" LIGHTWEIGHT CONC.		
			— 1 1/8" T&G PLYWOOD DECKING		
			PER STRUCTURAL		
			— 20" TRUSS PER STRUCTURAL		
		< \\			
			- 5/8" SUSPENDED GWB CEILING		
			3/0 3031 ENDED GWD CEILING		
	UNRAT	ED FLOOR - CEILING ASSEMBLY - EF	POXY FLOOR COATING SYSTEM	TO BE USED 2ND LEVEL	NON-RATED
			— FINISH FLOOR - SEE FINISH PLAN	FOR "SHED" AREA	
			EPOXY FLOOR COATING SYSTEM		
			— 3/4 PLYWOOD		
			- 1 1/8" T&G PLYWOOD DECKING		
			PER STRUCTURAL		
			— I-JOIST PER STRUCTURAL		
		•			
	SLAB C	ON GRADE - FINISHED			
			FINISH FLOOR PER SCHEDULE		
	F.F.		- CONCRETE SLAB PER		
			STRUCTURAL — VAPOR BARRIER		
			R-10 RIGID INSULATION UNDER		
			SLAB & EDGE PERIMETER, EXTEND 24" PAST HEATED		
			SPACE		
			— 4 INCH CAPILLARY BREAK PER GEOTECH REPORT		
		•	— COMPACTED SUBGRADE PER GEOTECH REPORT		
	LOBBY	CEILING - FLOOR ASSEMBLY			
			1'-11" — FINISH FLOOR - SEE FINISH PLAN	+	
		<u>4</u> -	— 1 1/2" THICK LIGHTWEIGHT CONC.		
		\	— 1 1/8" T&G PLYWOOD DECKING		
			-2 x 6 T&G TIMBER DECKING		
			— GLU-LAM FRAMING PER STRUCTURAL		
			SINGOIGINE		

ROOF SCHEDULE

3OL	DESCRIPTIO								
	ROOF - AT OVERHANG	— PRE-FINISHED METAL ROOF — WEATHER BARRIER — 3/4" T&G PLYWOOD DECKING — MIN. 1-1/2" CLEAR (VENTILATION) _ DBL. 2X4 OUTRIGGERS PER STRUCTURAL — METAL PANEL SOFFIT PER RCP	2 X 4 DOUBLE TOP CHORD OF TRUSS CONTINUES OUT TO ROOF OVERHANG	1-HOUR					
	ROOF - METAL FINISH	— PRE-FINISHED METAL ROOF — WEATHER BARRIER		1-HOUR					
		— WEATHER BARRIER — 3/4" T&G PLYWOOD DECKING — MIN. 1-1/2" CLEAR (VENTILATION)							
		— 36" RED-M OPEN WEB TRUSS WITH R-49 FIBERGLASS INSULATION; SPACING PER STRUCTURAL							
		— 2 X 2 FURRING 5/8" TYPE "X" GWB							



3015 MISSION BEACH TULALIP, WA 98271

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03/21/2024

FLOOR AND ROOF SCHEDULE

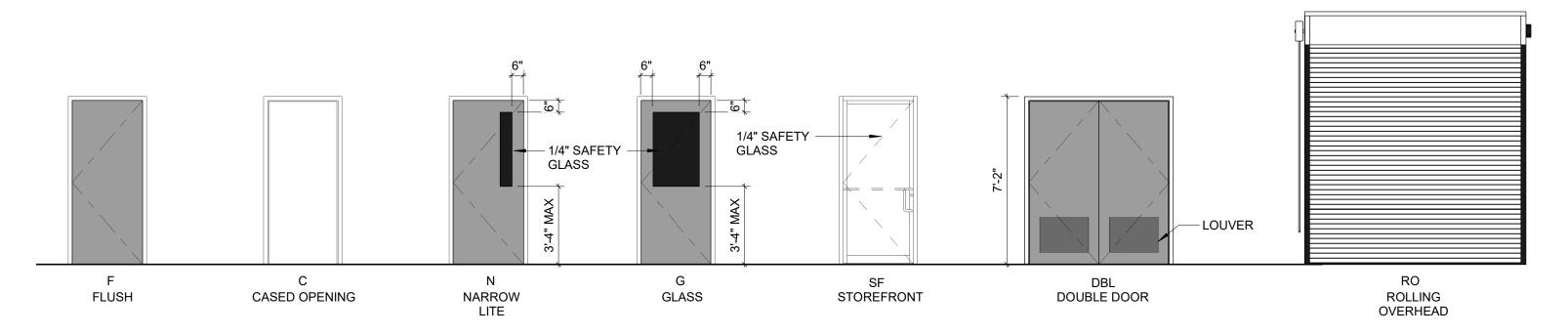
A9.20

DOOR SCHEDULE

1006 LOBEY RHR		ROOM NAME	DOOR TYPE	LEAF QUANTIT Y	WIDTH	HEIGHT	THK.	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE GROUP	NOTES	REVISIONS
BILLING H	100A			1			1 3/4"	ALUM							
OFFICE 1 3-0" 7-0" 134"	100B			1	3'-0"	7'-0"	1 3/4"	WD	STN/LAQ	НМ	PT		09	NARROW LITE	
103 LAB LAB	101		LH	1	3'-0"	7'-0"	1 3/4"	WD	PT	НМ	PT		08	GLASS	
STORAGE	102	BREAKROOM	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		13	NARROW LITE	
CLOSET 1 3-0" 7-0" 13/4" HM	103		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		13	FLUSH	
106	104		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		15	FLUSH	
107 ELEC	105		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		16	NARROW LITE	
108 CORRIDOR RH	106	DATA	RHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		09	FLUSH	
100 MUD ROOM	107	ELEC.	LHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		06	FLUSH	
111	108		RH	1	3'-0"	7'-0"	1 3/4"	НМ		НМ			17		
MOMEN'S LH 1 3-0" 7-0" 13/4" HM PT HM PT - 14 FLUSH	109		LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		05	FLUSH	
LOCKER RM	110	CORRIDOR	RH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		11	NARROW LITE	
113 STORAGE LHR	111		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		14	FLUSH	
HALL HALL RHR 1 3-0" 7-0" 13/4" HM PT HM PT - 04 FLUSH	112		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		14	FLUSH	
Second Region Figure Fig	113	STORAGE	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	НМ	PT		12	FLUSH	
118	114	HALL	RHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		04	FLUSH	
The Fire Room The Fire Roo	115	MACHINE	LHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		10	FLUSH	
PRESSURE WASHER WASHE	116A	SIDE SHED	LHR	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		03	NARROW LITE	
119	118	FIRE ROOM	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT		PT		00		
202 WOMEN'S RR LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 14 FLUSH 203 COPY RM CASED OPNG 1 3'-0" 7'-0" 1 3/4" HM PT CASED OPNING 204 CONFERENC ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 20 NARROW LITE 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 206 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 209 OFFICE RH 1 3'-0	119	WASHER	DBL	2	6'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT				
203 COPY RM E ROOM CASED OPNG 1 3'-0" 7'-0" 1 3/4" - - HM PT HM PT CASED OPENING 204 CONFERENC E ROOM RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 20 NARROW LITE 205 PRIVATE OFFICE LH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 206 PRIVATE OFFICE HH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 209 OFEN OFFICE HH 3'-0" 7'-0" 1 3/4" HM PT HM PT 17 NARROW LITE	201	MEN'S RR	RH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		14	FLUSH	
CONFERENC RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT HM PT 20 NARROW LITE	202	WOMEN'S RR	LH	1	3'-0"	7'-0"	1 3/4"	HM	PT	HM	PT		14	FLUSH	
205 PRIVATE OFFICE CH	203	COPY RM	CASED OPNG	1	3'-0"	7'-0"	1 3/4"	-	-	HM	PT			CASED OPENING	
OFFICE 1 3-0" 7-0" 1 3/4" HM PT HM PT 21 NARROW LITE 206 PRIVATE OFFICE	204		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		20	NARROW LITE	
OFFICE 1 3-0 7-0 13/4 HM PT HM PT 21 NARROW LITE 207 PRIVATE OFFICE	205		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		21	NARROW LITE	
OFFICE 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 21 NARROW LITE 208 PRIVATE OFFICE RH 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 17 NARROW LITE 209 OPEN OFFICE 1 3'-0" 7'-0" 1 3/4" HM PT HM PT 07 FLUSH	206		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		21	NARROW LITE	
OFFICE 1 3-0 7-0 13/4 HM PT HM PT 17 NARROW LITE 209 OFFICE 1 3-0 7-0 13/4 HM PT HM PT 07 FLUSH	207		LH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		21	NARROW LITE	
209 OFFICE 1 3'-0" 7'-0" 13/4" HM PI HM PI 07 FLOSH	208		RH	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		17	NARROW LITE	
210 HALL RHR 1 3'-0" 7'-0" 13/4" HM PT HM PT 18 NARROWLITE	209		LHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		07	FLUSH	
	210	HALL	RHR	1	3'-0"	7'-0"	1 3/4"	НМ	PT	НМ	PT		18	NARROW LITE	

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



GENERAL NOTES - DOOR HARDWARE

- 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.

GENERAL NOTES - DOORS

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 SEMIGLOSS 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 SET WEATHERSTRIPPING INCLUDE MEETING ST 1 THRESHOLD

1 CARD READER 1 MOUNTING POST

1 THRESHOLD

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

DOOR HARDWARE

DOOR SCHEDULE

ISSUE LIST

BID ISSUE

03/21/2024

A9 30

REIHEIT

TULALIP TRIBES - UTILIT
3015 MISSION BEACH ROAD
THE WAS 98271

				WI	NDOW SCHEDUI	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	OO/OX	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	А3	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	А3	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:

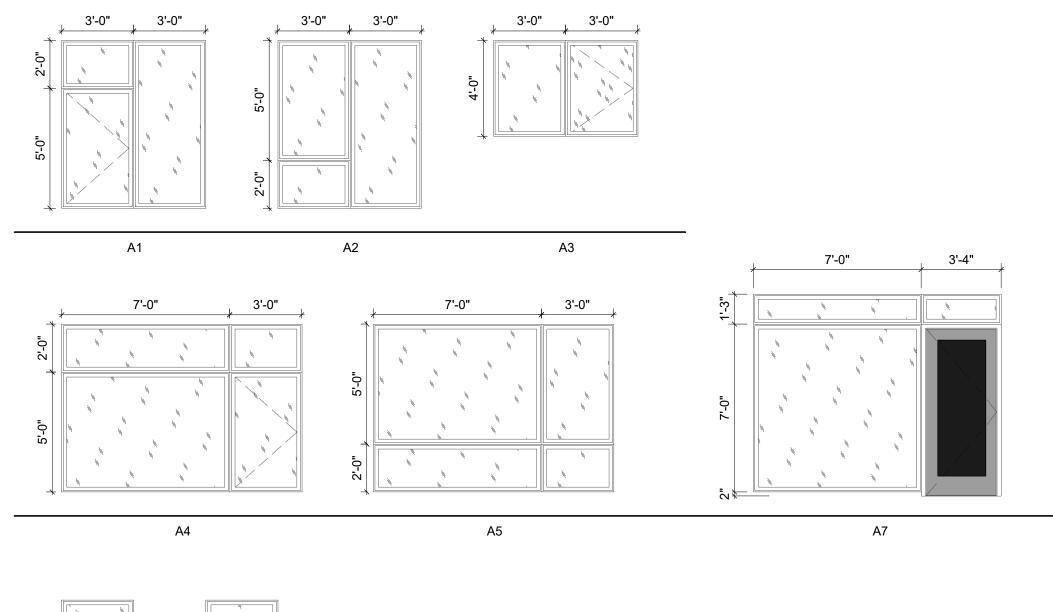
1. TEMPERED GLASS

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

4. WINDOW SHADE, MANUAL OPERATION

5. INSECT SCREEN ON OPERABLE PANEL
6. WITH STOREFRONT DOOR - SEE DOOR SCHEDULE
7. OPERABLE PANEL IS CASEMENT, OUT-SWING
8. INTERMEDIATE MULLION TO ALIGN WITH DOOR HEAD AT 7'-0" A.F.F.
9. WINDOW HEAD TO ALIGN WITH DOOR HEAD AT 7'-0" A.F.F.

WINDOW TYPES







GENERAL NOTES - WINDOWS

(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.



3015 MISSION BEACH TULALIP, WA 98271 TRIBE

ISSUE LIST **BID ISSUE**

03/21/2024

WINDOW SCHEDULE A9.40

OFFICES

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	X
HEAVY STORAGE	250 PSF	X

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

50 PSF

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

```
MINIMUM DESIGN LOAD 25 PSF WITHOUT DRIFT
P_g = 20 PSF
                          C_{\rm e} = 0.9
                          C_t = 1.0
I_{\rm s} = 1.00
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:

CITE OLACO D	L _	00 ET
SITE CLASS D	h _n =	30 FT
RISK CATEGORY II	T =	0.26 SECONDS
SEISMIC DESIGN CATEGORY D	R =	6.5
$I_e = 1.00$	Ω =	3
$S_s = 1.218 g$	ρ =	1.3
$S_1 = 0.434 g$	C _s =	0.127
$S_{DS} = 0.82 g$	V =	$C_sW = 35 KIPS$
$S_{D1} = 0.54 \text{ g}$		
$T_L = 6 SECONDS$		

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

WIND 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
                            K_e = 1.00
EXPOSURE CATEGORY D
                            G_{cpi} = 0.18
V = 98 MPH
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

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

SEISMIC:

INELASTIC STORY DRIFT = 2.5 % OF STORY HEIGHT ELASTIC STORY DRIFT = INELASTIC STORY DRIFT DIVIDED BY C_d/I_e , WHERE $C_d/I_e = 4$

```
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)

GENERAL NOTES

RESTRAINED

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.

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.

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 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.

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

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

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.

ALL FRAMING MEMBERS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, COLUMNS, AND DIMENSIONED FRAMING UNLESS NOTED OTHERWISE.

CONCRETE

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

CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

	CONCRETE MIXTURES	
_	EXPOSURE CLASS	

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

SLAB MIXES SHALL HAVE A TARGET SLUMP OF 6".

- 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

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.

DEFORMED BARS HEADED DEFORMED BARS

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".

ASTM A 615, GRADE 60

ASTM A 970, HEAD TYPE HA

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

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

NONSTRUCTURAL SLAB-ON-GRADE PER DETAILS WALL BARS: INTERIOR FACES EXPOSED TO EARTH OR WEATHER 1 1/2" (#5 AND SMALLER) (#6 AND LARGER) FOOTING, BOTTOM BARS (CAST AGAINST EARTH) TOP BARS 1 1/2" (#6 AND LARGER WHERE EXPOSED TO EARTH OR WEATHER) SIDE BARS

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

REINFORCING BARS TO BE WELDED WELDING ELECTRODES

ASTM A 706, GRADE 60, LOW ALLOY F80XX

STRUCTURAL STEEL

REFERENCE SPECIFIC	<u>CAT</u>
STRUCTURAL STEEL	

AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL **BUILDINGS**"

HIGH STRENGTH BOLTS RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS"

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

STEEL MATERIALS

WELDING

ASTM A 36, TYPICAL, PLATES (PL), BARS ASTM A 572 GRADE 50 WHERE NOTED ANGLES (L), CHANNELS (C AND MC) ASTM A 36

STRUCTURAL TUBES (HSS) ASTM A 500, GRADE C STRUCTURAL BOLTS ASTM F 3125, GRADE A 325 ANCHOR RODS ASTM F 1554, GRADE 36 UNLESS NOTED OTHERWISE

THREADED RODS ASTM A 36, UNLESS NOTED OTHERWISE WELDING ELECTRODES 70 KSI, LOW HYDROGEN, TYPICAL STRUCTURAL STEEL DESIGN. FABRICATION AND ERECTION SHALL CONFORM TO THE

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.

REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL

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.

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

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

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

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.

<u>WELDED HEADED STUD, AND DEFORMED BAR ANCHORS</u>

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.

3/4"Ø UNLESS NOTED OTHERWISE WELDED HEADED STUDS AWS D1.1 TYPE B 1/2"Ø UNLESS NOTED OTHERWISE **ASTM A1064** DEFORMED BAR ANCHORS

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

kpff.com
WAYNE
OF WASHING
Well War
48649 WORAL ENGINEER

Seattle, WA 98101

206.622.5822

1601 Fifth Avenue. Suite 1600

BUIL RB

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DRAWING LIST

STRUCTURAL NOTES AND DRAWING LIST S0.02 STRUCTURAL NOTES AND INSPECTION SCHEDULE

STRUCTURAL SYMBOLS AND ABBREVIATIONS

LOAD MAPS S1.01

S3.02

S5.07

S2.01 FOUNDATION PLAN 2ND FLOOR FRAMING PLAN S2.02

S2.03 ROOF FRAMING PLAN **EXTERIOR WALL FRAMING ELEVATIONS**

EAST STAIR FRAMING ELEVATION AND DETAILS

S4.01 TYPICAL CONCRETE DETAILS

FOUNDATION SECTIONS AND DETAILS

TYPICAL WOOD FRAMING DETAILS S5.02 TYPICAL WOOD FRAMING DETAILS S5.03 TYPICAL WOOD FRAMING DETAILS

S5.04 TYPICAL WOOD FRAMING DETAILS S5.05 TYPICAL WOOD FRAMING DETAILS S5.06 TYPICAL WOOD STAIRS DETAILS

TYPICAL WOOD ELEVATOR DETAILS

WOOD ROOF FRAMING DETAILS

WOOD FLOOR FRAMING DETAILS

STEEL DETAILS

ISSUE LIST PERMIT ISSUE

BID ISSUE

5/23/23

3/21/24

STRUCTURAL **NOTES AND**

DRAWING LIST

STRUCTURAL NOTES

WOOD

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

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.

<u>USE</u>	<u>GRADE</u>	F _b (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:

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

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

DEFLECTION CRITERIA: LIVE LOAD

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: LIVE LOAD:	TOP CHORD = 23 PSF BOT CHORD = 10 PSF TOP CHORD = 65 PSF	
DEFLECTION CRITER	A: LIVE LOAD DEAD + LIVE LOAD	= L/400 , 1/2" MAX = L/480 , 5/8" MAX
ROOF:		
DEAD LOAD: LIVE LOAD: WIND UPLIFT:	TOP CHORD = 12 PSF BOT CHORD = 5 PSF TOP CHORD = 25 PSF (SI SEE 3/S1.01	NOW)

DEAD + LIVE LOAD = L/240, 2" MAXSPECIFIED 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.

= L/360 , 1 1/4" MAX

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 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

SUBFLOORING SHEATHING (TONGUE AND GROOVE)
1-1/8 CATEGORY APA RATED STURD-I-FLOOR 24OC, EXPOSURE 1 23/32 CATEGORY APA RATED SHEATHING, 48/24, EXPOSURE 1

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

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, NAII INC 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.

	FRAMIN	G NAILS	
TYPE MARK	TYPE	SHANK DIAMETER	MINIMUM LENGTH
8d	COMMON	0.131"	2 1/2"
10d	COMMON	0.148"	3"
16d	COMMON	0.162"	3 1/2"
16d-SHORT	SHORT	0.131"	3 1/4"

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

ALTERNATE NAILING SCHEDULE									
FASTENER	SHANK	LENGTH	SPACING						
TYPE	DIAMETER	LLINGIII							
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.

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.

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

SPECIAL INSPECTIONS AND TESTING SCHEDULE							
	2018 SECTION 109 AND CHAPT						
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	4705.2	-					
POST-INSTALLED MECHANICAL ANCHORS	1705.3	-					
EMBEDDED PLATES		-					
STRUCTURAL STEEL		-					
FABRICATION AND ERECTION	4705.0	-					
HIGH STRENGTH BOLTING	1705.2	-					
WELDING		-					
WOOD	-	-					
PREFABRICATED STRUCTURAL ELEMENTS	1704.2.5	-					
SEISMIC RESISTANCE							
SEISMIC - WOOD	1705.12.2	-					

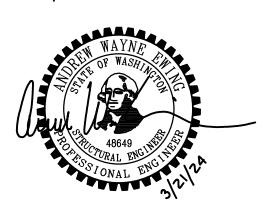
SPECIAL INSPECTIONS AND TESTING NOTES:

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 BIDDER-DESIGNED COMPONENTS.



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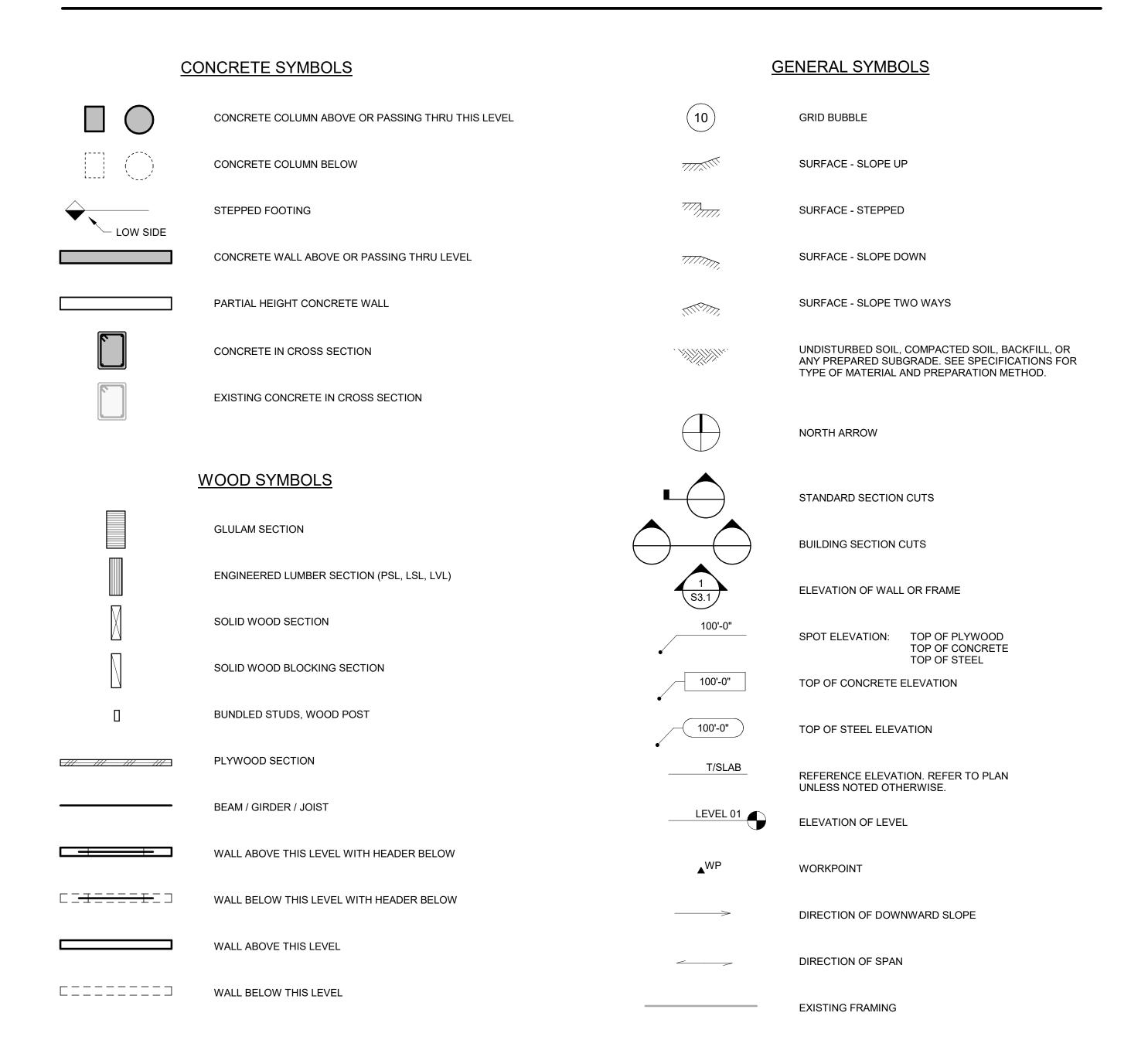
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STRUCTURAL **NOTES AND** INSPECTION **SCHEDULE**

STRUCTURAL ABBREVIATIONS

A.D.	ANGLIOR ROLT	15	INOIDE EAGE
AB ADD'L	ANCHOR BOLT ADDITIONAL	IF IN	INSIDE FACE INCH
ADH	ADHESIVE	INFO	INFORMATION
ADJ	ADJUSTABLE	INT	INTERIOR
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	JST	JOIST
AFF	ABOVE FINISH FLOOR	JT K	JOINT KIP (1,000 LBS.)
AGG	AGGREGATE	KSF	KIPS PER SQUARE FOOT
ANCH	ANCHOR	LF	LINEAL FOOT
ARCH	ARCHITECTURAL	LFH	LONG FACE HORIZONTAL
ARD B/	ADHESIVE REINFORCING DOWEL BOTTOM OF	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LLV LNGT	LONG LEG VERTICAL LONGITUDINAL
BLKG	BLOCKING	LP	LOW POINT
ВМ	BEAM	LSL	LAMINATED STRAND LUMBER
BN	DIAPHRAGM BOUNDARY NAILING	LVL	LAMINATED VENEER LUMBER
BOT	BOTTOM	MAX	MAXIMUM
BRG BSMT	BEARING BASEMENT	MECH MFR	MECHANICAL MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
BUR	BUILT-UP ROOF	MISC	MISCELLANEOUS
С	CAMBER	MOM	MOMENT
CAP CC	CAPACITY CENTER TO CENTER	NIC	NOT IN CONTRACT
CDF	CONTROLLED DENSITY FILL	NO NOM	NUMBER NOMINAL
CFS	COLD-FORMED STEEL	NS	NEAR SIDE
CIP	CAST-IN-PLACE	NS	NONSHRINK
CJ	CONSTRUCTION OR CONTROL JOINT	NTS	NOT TO SCALE
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
CL CLG	CENTERLINE CEILING	OD OF	OUTSIDE DIAMETER
CLR	CLEAR	OF OPNG	OUTSIDE FACE OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	Р	POST
CONC	CONCRETE	PAF	POWER ACTUATED FASTENER
CONN CONST	CONNECTION CONSTRUCTION	PC PC	PIECE
CONT	CONTINUOUS	PC PEN	PILE CAP PENETRATION
CONTR	CONTRACTOR	PJP	PARTIAL JOINT PENETRATION
CONTY	CONTINUITY	PL	PROPERTY LINE
COORD	COORDINATE	PL	PLATE
CTR CY	CENTER	PLWD	PLYWOOD
DB	CUBIC YARD DIVIDER BEAM	PNL PSF	PANEL POUNDS PER SQUARE FOOT
DBA	DEFORMED BAR ANCHOR	PSI	POUNDS PER SQUARE INCH
DBL	DOUBLE	PT	POST-TENSIONED
DCW	DEMAND CRITICAL WELD	PT	PRESERVATIVE-TREATED
DEMO	DEMOLISH	PWT	PREFABRICATED WOOD TRUSS
DET DF	DETAIL DOUGLAS FIR	R RD	RADIUS
DIA	DIAMETER	REINF	ROOF DRAIN REINFORCING
DIAG	DIAGONAL	REM	REMAIN(DER)
DKG	DECKING	REQ'D	REQUIRED
DN	DOWN	RND	ROUND
DO DWF	DITTO DEFORMED WIRE FABRIC	RO	ROUGH OPENING
DWG	DRAWING	RTN SC	RETURN SLIP CRITICAL
DWL	DOWEL	SCHED	SCHEDULE
EA	EACH	SDCI	SEATTLE DEPARTMENT OF
EF	EACH FACE	SDO	CONSTRUCTION AND INSPECTIONS SPECIAL DUCTILE QUALITY
EL ELECT	ELEVATION ELECTRICAL	SDQ SECT	SECTION
ELEV	ELEVATOR	SFRS	SEISMIC FORCE-RESISTING SYSTEM
EN	PANEL EDGE NAILING	SHT	SHEET
EQ	EQUAL	SHTG	SHEATHING
EQUIP	EQUIPMENT	SIM	SIMILAR
ES EW	EACH SIDE EACH WAY	SOG SP	SLAB-ON-GRADE SPACE
EX	EXISTING	SPEC	SPECIFICATION
EXP	EXPANSION	SQ	SQUARE
EXT	EXTERIOR	SST	STAINLESS STEEL
F	FAHRENHEIT	ST	SUSTAINED TENSION ANCHOR
FD FDN	FLOOR DRAIN FOUNDATION	STD STIFF	STANDARD STIFFENER
FF	FINISH FLOOR	STIRR	STIRRUP
FIN	FINISH	STL	STEEL
FLG	FLANGE	STRUCT	STRUCTURAL
FLR	FLOOR	SUPP	SUPPORT
FOB FS	FACE OF BUILDING FAR SIDE	SYM T&B	SYMMETRICAL TOP AND BOTTOM
FT	FEET	T&G	TONGUE AND GROOVE
FTG	FOOTING	T/	TOP OF
GA	GAUGE	TB	TABLE
GALV	GALVANIZED	THK	THICK(NESS)
GB GEN	GRADE BEAM	THRU	THROUGH
GEN GL	GENERAL GLUED LAMINATED TIMBER	TRANS TYP	TRANSVERSE TYPICAL
GOVT	GOVERNMENT	UNO	UNLESS NOTED OTHERWISE
GR	GRADE	UT	ULTRASONIC TESTING
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
HF HCB	HEM-FIR	VIF	VERIFY IN FIELD
HGR HK	HANGER HOOK	W W/	W-SHAPE WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WD	WOOD
HSS	HOLLOW STRUCTURAL SECTION	WHS	WELDED HEADED STUD
IBC	INTERNATIONAL BUILDING CODE	WL	WATER LINE
ID IE	INSIDE DIAMETER INVERT ELEVATION	WP	WORK POINT
	· · · · · ·		

STRUCTURAL DRAWING SYMBOLS





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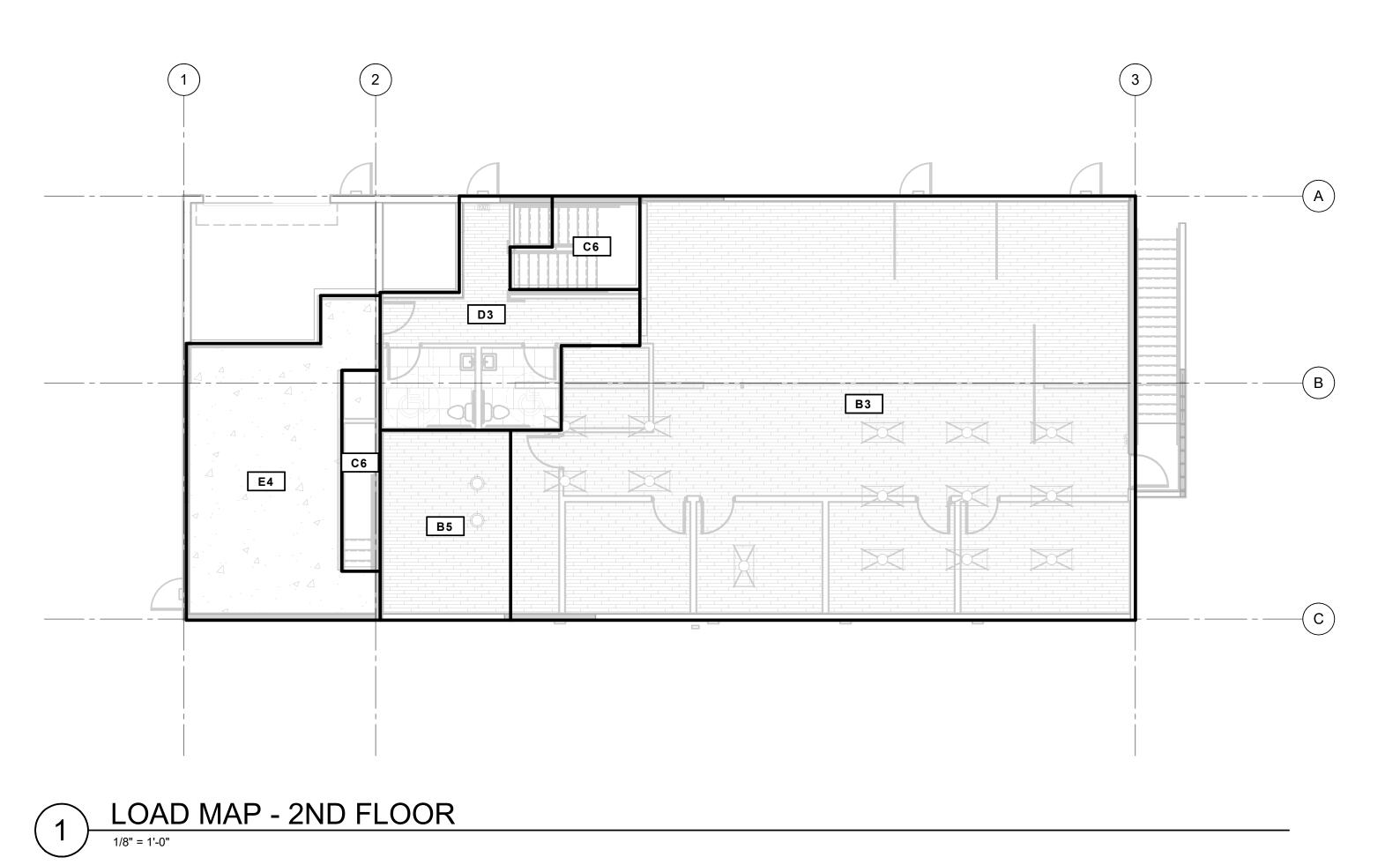


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STRUCTURAL SYMBOLS AND **ABBREVIATIONS**



LIVE LOAD SCHEDULE			
TYPE MARK	DESCRIPTION	LOAD, PSF (R=REDUCIBLE)	TYPE COMMENTS
Α	ROOF	20 (R) LIVE 25 SNOW	-
В	ALL TYPICAL OFFICE FLOORS	50 (R) + 15	3
С	CORRIDORS AND STAIRS	100	-
D	CORRIDORS ABOVE FIRST FLOOR	80 (R)	-
Е	HEAVY STORAGE	250	-

	SUPERIMPOSED DEAD LOAD SCHEDULE			
;	TYPE MARK DESCRIPTION		LOAD, PSF	TYPE COMMENTS
	1	ROOF	16	-
	2	ROOF OVERHANG	11	-
	3	FINISHING FLOORING ON 1 1/2" GYPCRETE	26	-
	4	FINISH FLOORING ON PLYWOOD SHEETHING	11	-
	5	FINISH FLOORING ON 1 1/2" GYPCERETE OVER DECKING	26	-
	6	STAIR FINISH FLOORING	12	-

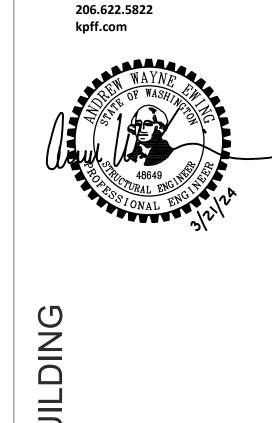
1. A1 INDICATES LIVE LOAD AND SUPERIMPOSED LOAD PER SCHEDULES. LOADING OCCURS WITHIN REGIONS BOUND BY BOLD LINES.

- SUPERIMPOSED DEAD LOAD LIVE LOAD

(R) INDICATES LIVE LOADS ARE REDUCED IN ACCORDANCE WITH BUILDING CODE PROVISIONS.
 + 15 INDICATES 15 PSF NON REDUCIBLE PARTITION LOAD.
 REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

OPEN	WEB TRUSS UPLIFT PRESSURES	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	
5	-84.9 PSF	ZONE 5

- NOTES:
 OPEN WEB TRUSSES SHALL BE DESIGNED FOR THE WIND UPLIFT PRESSURE SHOWN.
 WIND UPLIFT PRESSURES SHOWN ARE UNFACTORED LEVEL LOADS (1.0W) FOR TRIBUTARY AREAS GREATER THAN OR EQUAL TO 100 SQUARE FEET, UNO.
 A TOTAL REDUCED UNFACOTRED DEAD LOAD (1.0D) OF 15 PSF SHALL BE USED WHEN DESIGNING FOR UPLIFT OF THE TRUSSES. THIS VALUES ASSUMES 8 PLF OF TRUSS SELF WEIGHT AND MAY BE ADJUSTED FOR FINAL TRUSS SELF WEIGHT.



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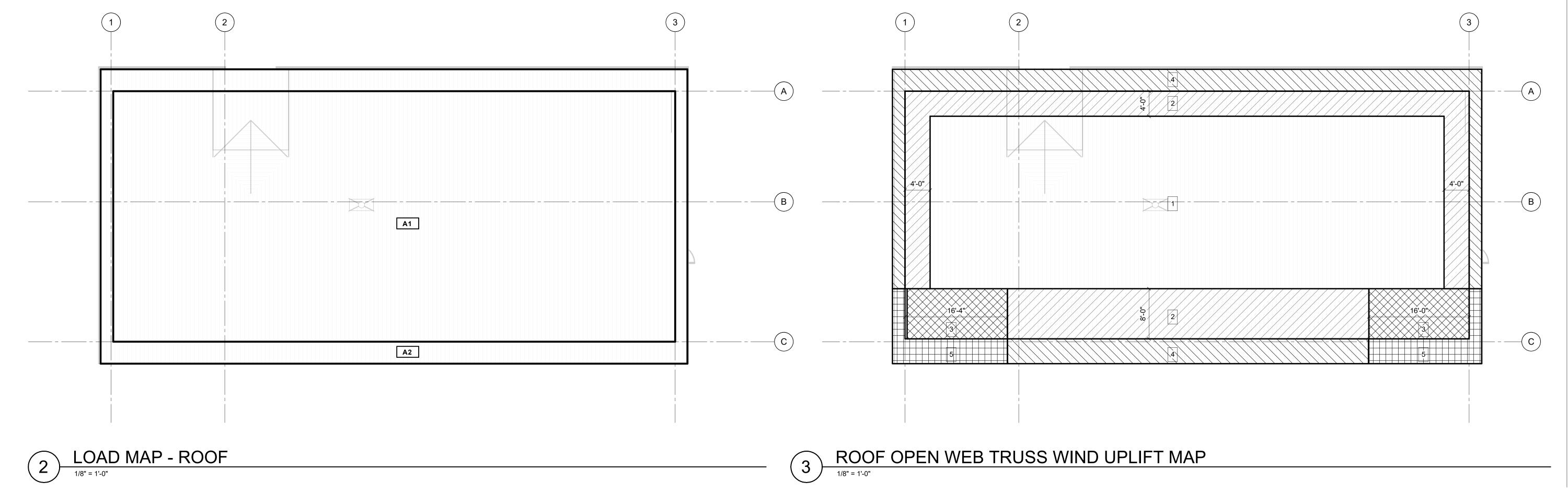
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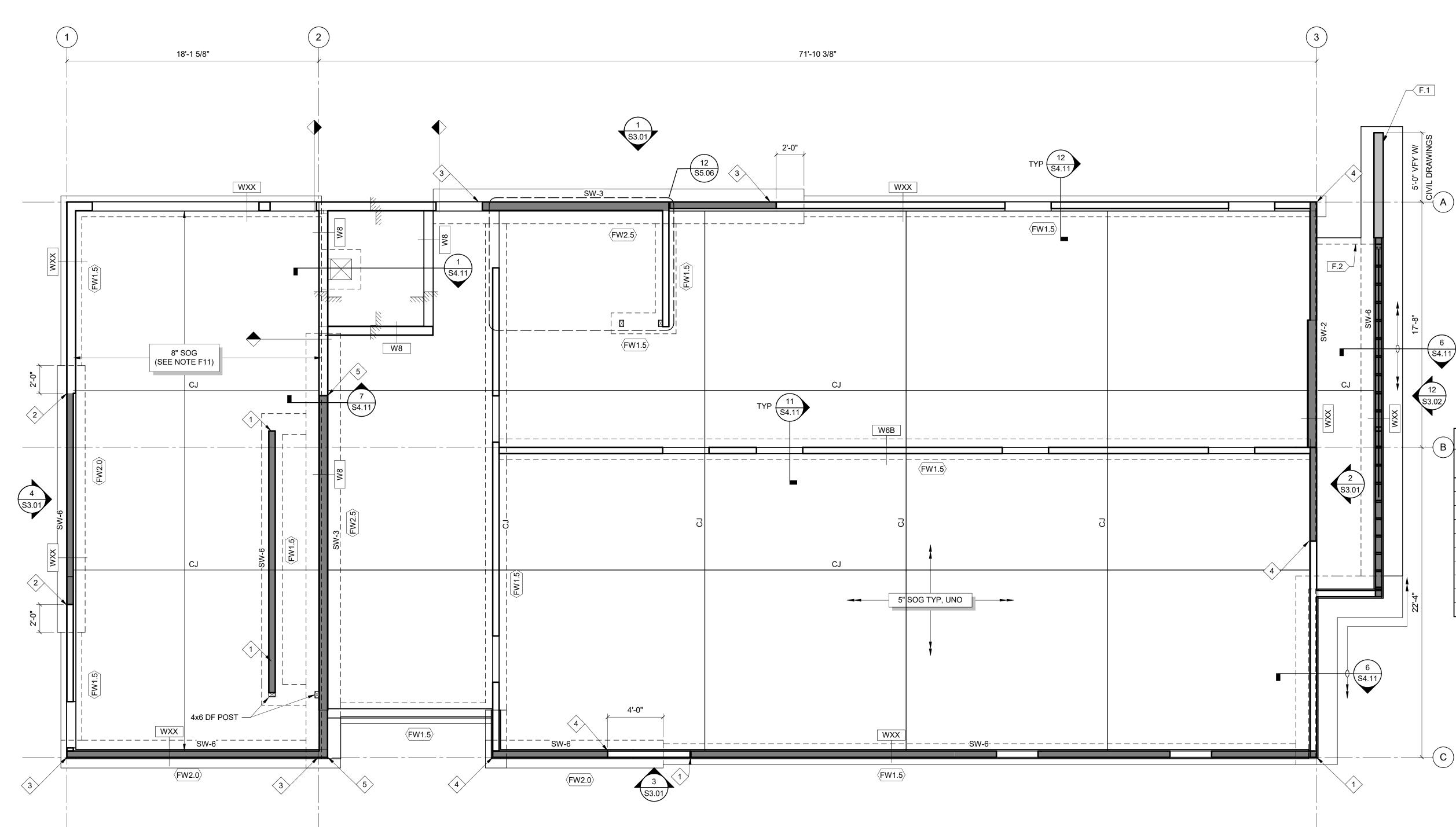
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LOAD MAPS

S1.01





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

В	BEAM SCHEDULE		
TYPE MARK	TYPE		
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	HEADER SIZE	MAX ROUG 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

	JOIST SCHEDULE			
	TYPE MARK	TYPE AND SPACING		
	J-1	16" RED-l65 @ 24" OC		
	J-2	16" RED-l65 @ 12" OC		
	J-3	18" RED-l65 @ 16" OC		
	J-4	2x12 @ 24" OC		
STUD SCHEDULE				

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	(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	-

STRU	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:

- 3. WHERE STUD HEIGHT EXCEEDS 12'-0", AS INDICATED BY "(LSL)", REPLACE DIMENSIONAL STUDS WITH EQUIVALENT LSL.
- 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO.
- 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.

- 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.
- 4. ALL INTERIOR JAMBS SHAL BE TYPE T-0 TYP, UNO.
- 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.
- 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES

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FOUNDATION

FOUNDATION PLAN

GENERAL PLAN NOTES:

REFERENCE DRAWINGS:

S1.XX - LOAD MAPS

S3.XX - ELEVATIONS

S5.XX - TYPICAL WOOD DETAILS

S0.XX - STRUCTURAL NOTES, SPECIAL INSPECTION

SCHEDULE, SYMBOLS AND ABBREVIATIONS

S4.XX - TYPICAL CONCRETE AND FOUNDATION DETAILS

FOUNDATION PLAN NOTES:

SPECIFICATIONS.

SEE THE ARCHITECTURAL DRAWING FOR WALL ASSEMBLY TYPES AND FOR NON-BEARING WALL LOCATIONS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.

TOP OF SLAB-ON-GRADE SHALL BE 36'-6" THIS LEVEL, UNO. SLAB-ON-GRADE SHALL BE THICKNESS AS INDICATED ON PLAN WITH #4 @ 12" OC EW, SEE TYPICAL SLAB ON GRADE DETAIL 11/S4.01. PREPARE SUBGRADE AND PROVIDE UNDERSLAB CAPILLARY BREAK PER GEOTECHNICAL REPORT. POUR ALL SLABS ON GRADE OVER VAPOR RETARDER PER

> INDICATES SLAB ON GRADE CONTROL / CONSTRUCTION JOINT LOCATIONS; SPACE

JOINTS EQUALLY BETWEEN SLAB EDGES, UNO.

PROVIDE TRIM REINFORCING AT ALL SLAB ON GRADE PENETRATIONS AND REENTRANT CORNERS PER 5/S4.01.

INDICATES FOOTING TYPE. $\langle F10.0 \rangle$ TOP OF FOOTING EL = -1'-0" BELOW TOP OF SLAB AT EXTERIOR FOOTINGS AND = -0'-8" AT INTERIOR FOOTINGS UNO. SEE 7/S4.11, 6/S4.11, 11/S4.11, AND 12/S4.11.

F5. DIMENSIONS SHOWN ARE TO CENTERLINE OF POST, UNO. GRID LINES ARE ALILGNED WITH FACE OF STUD, UNO.

INDICATES HOLD-DOWN PER HOLD-DOWN SCHEDULE 9/S5.04.

INDICATES WOOD SHEAR WALL ABOVE AND TYPE PER 11/S5.04.

INDICATES FOOTING STEP PER 3/S4.11.

STUDS.

F9. SEE 1/S3.01, 2/S3.01, 3/S3.01, AND 4/S3.01 FOR EXTERIOR WALL

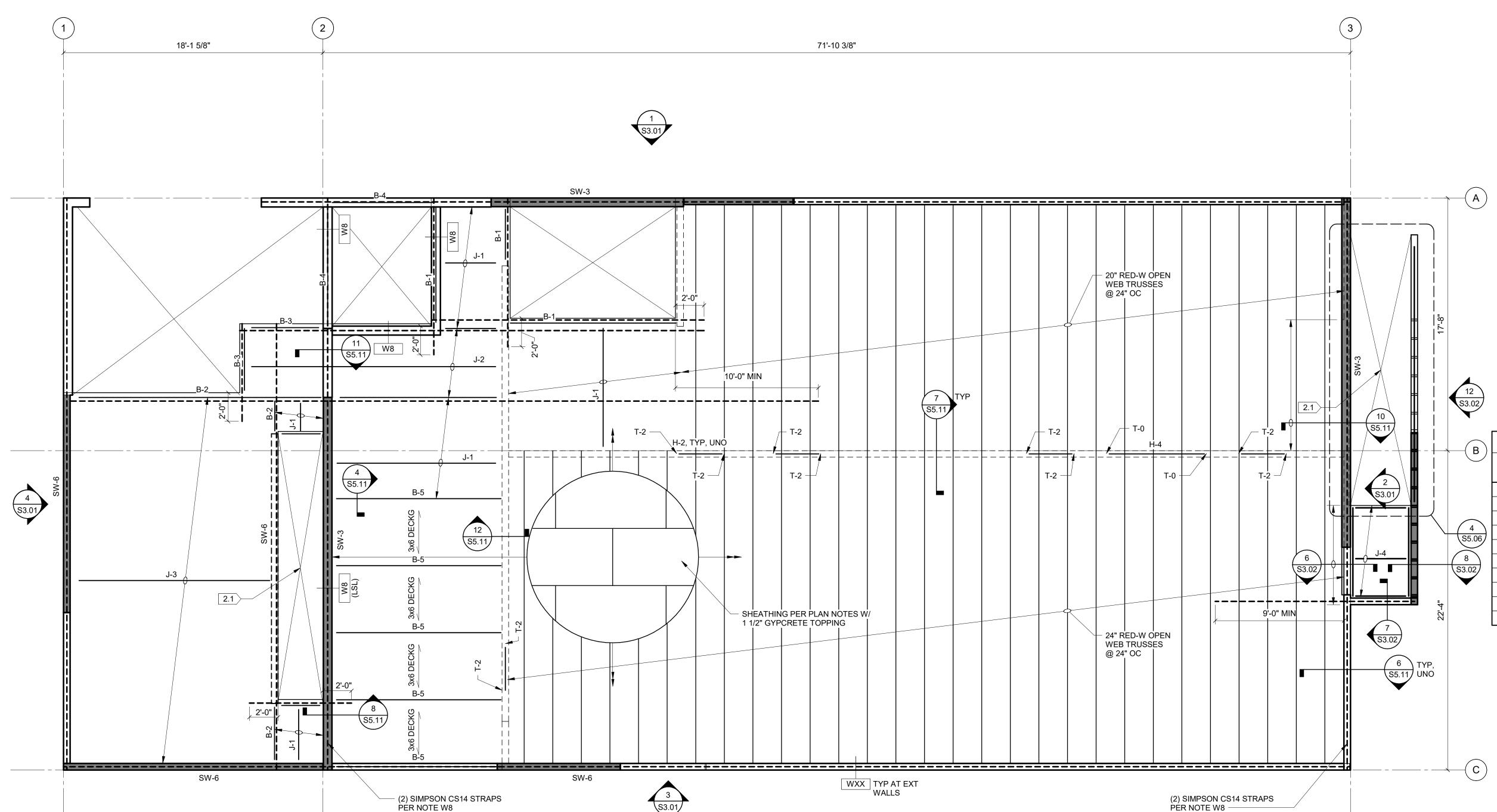
F10. ALL FOOTINGS AND SLABS ON GRADE TO BE PLACED ON 1'-0" MINIMUM STRUCTURAL FILL PER GEOTECHNICAL REPORT; SEE SECTION 9/S4.11.

F11. APPLY SEALER HARDENER TO 8" SLAB ON GRADE INSIDE SHED AREA; SEE SPECIFICATIONS.

FOUNDATION PLAN KEY NOTES:

F.1 CANTILEVERED RETAINING WALL AND FOOTING PER 6/S4.11.

F.2 THICKENED SLAB EDGE AT END OF STAIR PER 3/S4.01.



SECOND FLOOR FRAMING PLAN KEY NOTES:

4/S5.06.

2.1 PROVIDE STRAIGHT RUN STAIR FRAMING PER

INDICATES 3X6 T&G TIMBER DECKING UNDER

1-1/8" PLWD SHEATHING. ATTACH DECKING TO

TIMBER SCREWS INSTALLED FLUSH. EACH PIECE

SHALL BE TOENAILED AT EACH SUPPORT WITH

(1) 20d NAIL. SEE 11/S5.05 FOR PLYWOOD

NÁILING; NAIL PENETRATION INTO TIMBER

DECKING NOT TO EXCEED 2".

SUPPORTING FRAMING WITH (2) .22x5" SDWS

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	
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	HEADER SIZE	MAX ROUG OPENING WIDTH
H-0	(1) LSL 1-3/4x7-1/4	4'-0"
H-1	(2) LSL 1-3/4x7-1/4	SEE ELEVATIO
H-2	LSL 3-1/2x5-1/2	SEE ELEVATIO
H-3	LSL 3-1/2x9-1/2	SEE ELEVATIO
H-4	LSL 5-1/4x11-7/8	SEE ELEVATIO
H-5	PSL 5-1/4x11-7/8	SEE ELEVATIO
H-6	HSS5x4x3/16	SEE ELEVATIO

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	TYPE AND SPACING
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	(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	-

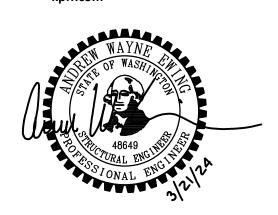
• • • • • • • • • • • • • • • • • • • •	STRUCTURAL WALL STUD SCHEDULE		
MARK	STUDS	NOTES	
W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO	
W6A	(2) 2x6 @ 16" OC	-	
W6B	2x6 @ 12" OC	-	
WXX	-	SEE S3.01 FRAMING ELEVATIONS	
W8	2x8 @ 16" OC	SEE NOTE 3	

- 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.

PER THE STRUCTURAL NOTES

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

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2ND FLOOR FRAMING PLAN

GENERAL PLAN NOTES:
G1. REFERENCE DRAV

REFERENCE DRAWINGS:

S1.XX - LOAD MAPS

S3.XX - ELEVATIONS

S5.XX - TYPICAL WOOD DETAILS

S0.XX - STRUCTURAL NOTES, SPECIAL INSPECTION

SCHEDULE, SYMBOLS AND ABBREVIATIONS

S4.XX - TYPICAL CONCRETE AND FOUNDATION DETAILS

WOOD FRAMING PLAN NOTES:

PER 11/S5.05.

J-X

SW-X

W4.

W5.

W6.

FOR NON-BEARING WALL LOCATIONS.

SCHEDULE.

SEE THE ARCHITECTURAL DRAWINGS FOR WALL TYPES AND

FLOOR SHEATHING SHALL BE 1 1/8" TONGUE AND GROOVE PER

INDICATES JOIST PER SCHEDULE.

INDICATES FLUSH FRAMED BEAM PER

INDICATES HOLD-DOWN PER 9/S5.04.

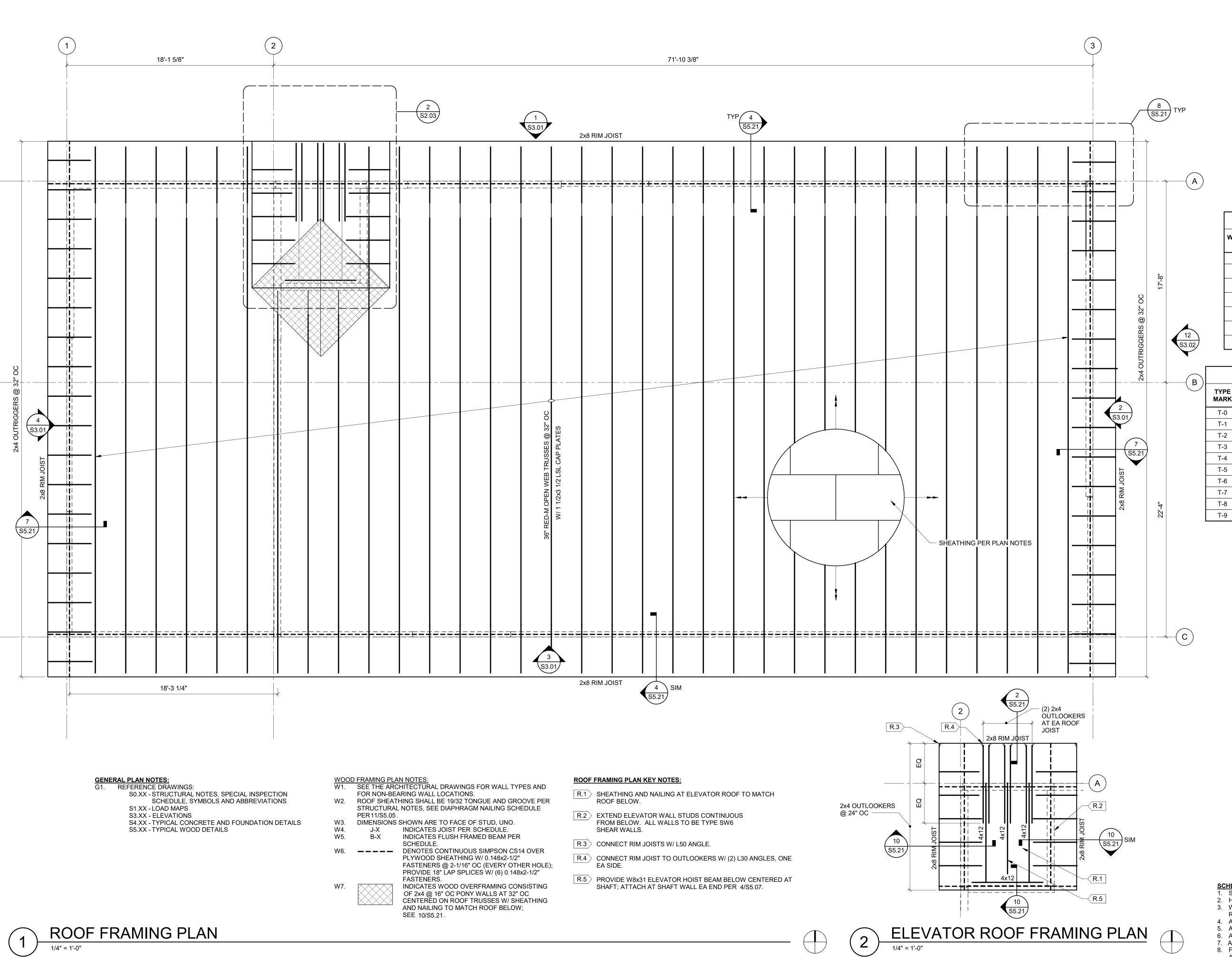
INDICATES WOOD SHEAR WALL ABOVE PER

DENOTES CONTINUOUS SIMPSON CS14 OVER PLYWOOD SHEATHING W/ 0.148x3" FASTENERS @ 2-1/16" OC (EVERY OTHER HOLE); PROVIDE 18"

LAP SPLICES W/ (6) 0.148x3" FASTENERS.

STRUCTURAL NOTES, SEE DIAPHRAGM NAILING SCHEDULE

DIMENSIONS SHOWN ARE TO FACE OF STUD, UNO.



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

В	BEAM SCHEDULE	
TYPE MARK	TYPE	
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	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	

JOIST 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
J-4	2x12 @ 24" OC

S	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	(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	-		

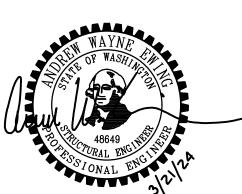
STRUCTURAL WALL STUD SCHEDULE			
MARK	MARK STUDS NOTES		
W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS UNO	
W6A	(2) 2x6 @ 16" OC	-	
W6B	2x6 @ 12" OC	-	
WXX	-	SEE S3.01 FRAMING ELEVATIONS	
W8	2x8 @ 16" OC	SEE NOTE 3	
	_		

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.
- AND T-9 KING STUDS. 9. SUBSTITUTIONS OF STRUCTURAL COMPOSITE LUMBER MAY BE MADE PER THE STRUCTURAL NOTES

8. PROVIDE (2) A35 FRAMING ANCHORS TOP AND BOT FOR TYPE T-7, T-8

206.622.5822



ISSUE LIST PERMIT ISSUE BID ISSUE

5/23/23

3/21/24

ROOF FRAMING

BEAM SCHEDULE		
TYPE TYPE		
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	HEADER SIZE	MAX ROU OPENING WIDTH	
H-0	(1) LSL 1-3/4x7-1/4	4'-0"	
H-1	(2) LSL 1-3/4x7-1/4	SEE ELEVATI	
H-2	LSL 3-1/2x5-1/2	SEE ELEVATI	
H-3	LSL 3-1/2x9-1/2	SEE ELEVATI	
H-4	LSL 5-1/4x11-7/8	SEE ELEVATI	
H-5	PSL 5-1/4x11-7/8	SEE ELEVATI	
H-6	HSS5x4x3/16	SEE ELEVATI	

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

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	(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	-

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

- 2. HEADERS SHALL BE LOCATED AS SHOWN ON ELEVATIONS AND PLANS.
- 5. ALL INTERIOR HEADERS SHALL BE TYPE H-0 TYP, UNO. 6. ATTACH 2x TRIMMER STUDS TO KING STUDS PER 1/S5.04.

PER THE STRUCTURAL NOTES

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		
TYPE TYPE		
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	HEADER SIZE	MAX ROUG 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	
·	·	· ·	

JOIST SCHEDULE		
TYPE AND SPACING		
16" RED-I65 @ 24" OC		
16" RED-l65 @ 12" OC		
18" RED-I65 @ 16" OC		
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	(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	-	

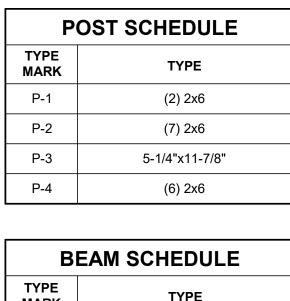
STRU	ICTURAL WA	ALL STUD SCHEDULI
MARK	STUDS	NOTES
W6	2x6 @ 16" OC	TYPICAL AT INTERIOR WALLS U
W6A	(2) 2x6 @ 16" OC	-
W6B	2x6 @ 12" OC	-
WXX	-	SEE S3.01 FRAMING ELEVATIONS
W/8	2x8 @ 16" OC	SEE NOTE 3

- SCHEDULE NOTES:

 1. SEE 5/S5.01 & 9/S5.01 FOR WALL TYPE AND HEADER ELEVATION.
- 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.
- 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





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Seattle, WA 98101

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FILTIY BU	٥
IBES - UT	

TULALIP

ISSUE LIST PERMIT ISSUE 5/23/23 7/17/23 PERMIT RESPONSE

3/21/24

BID ISSUE

EXTERIOR WALL FRAMING **ELEVATIONS**

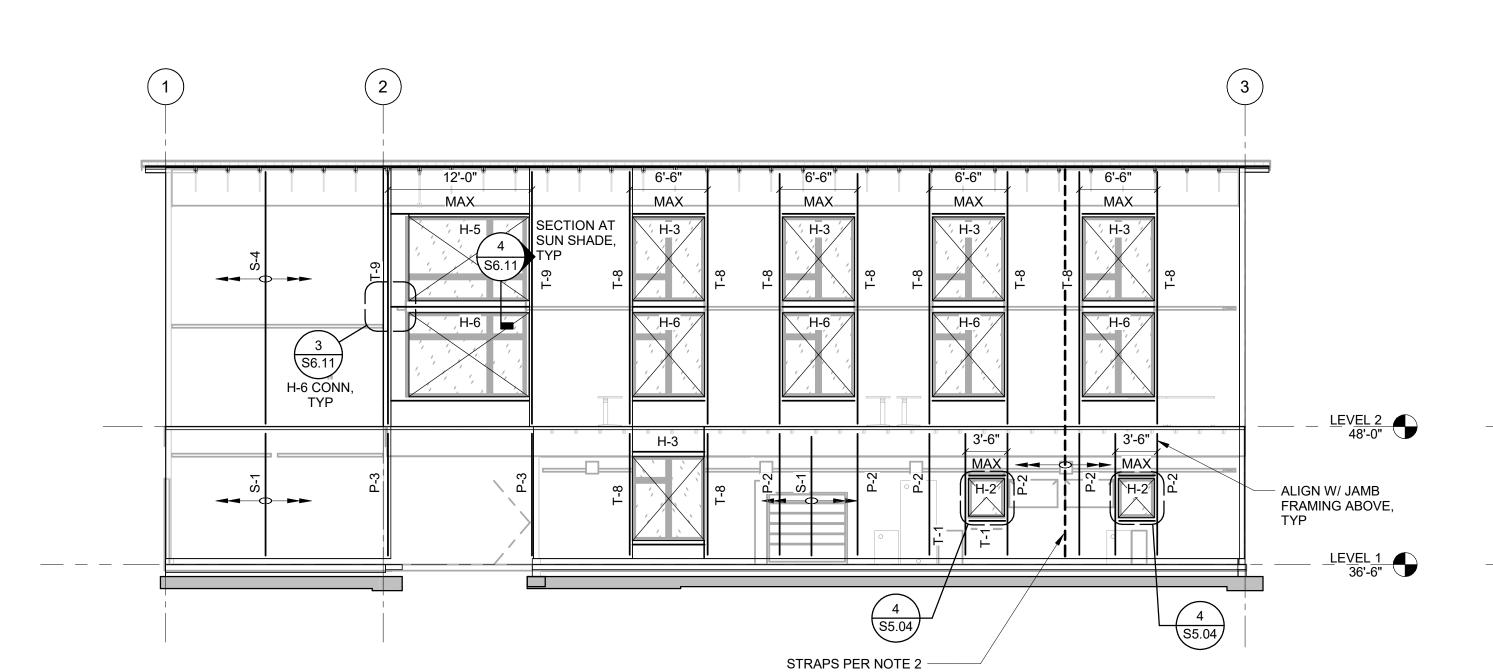
(3) 12'-6" -MAX-4'-0" MAX _HSS 6x6x3/16_ LEVEL 2 48'-0" MAX ALIGN W/ JAMB FRAMING ABOVE STRAPS PER NOTE 2 -

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 @ 6'-0" OC (ALIGNED WITH 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.





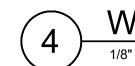
NOTES:

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 @ 4'-0" OC (ALIGNED WITH
STUDS) W/ 0.148x2-1/2" FASTENERS @ 2-1/16" OC
(EVERY OTHER HOLE): PROVIDE 18" LAP SPLICES W/

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

SOUTH ELEVATION



WEST ELEVATION

1/8" = 1'-0"

STRAPS PER NOTE 2 -

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 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.

(6) 0.148x2-1/2" FASTENERS.

ALIGN W/ JAMB FRAMING

EAST ELEVATION

1/8" = 1'-0"

ABOVE, TYP -

→

MAX

4'-0"

LEVEL 2 48'-0"

ALIGN W/ JAMB

FRAMING ABOVE,

LEVEL 1 36'-6"

STAIR S3.02

STRAPS PER NOTE 2 —

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.

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
OT UPS) W/ 0.148v2-1/2" FASTENERS @ 2-1/16" OC

LEVEL 2 48'-0"



BUILDING

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TRIBE TULALIP

(4) 10d TO FLAT 2x

- ADD FLAT 2x4x1'-6" AT EA H2.5 IF NOT

ALIGNED W/ JOISTS

JOIST PER PLAN W/

CONT 2x LEDGER W/ (4) 16d-SHORT TO EA

STUD & (1) 16d-SHORT

LEVEL 2 48'-0"

(2) 4x6 POSTS

LEVEL 1 36'-6"

- RETAINING WALL

LU HANGER

EA BLOCK

 $\left(A \right)$

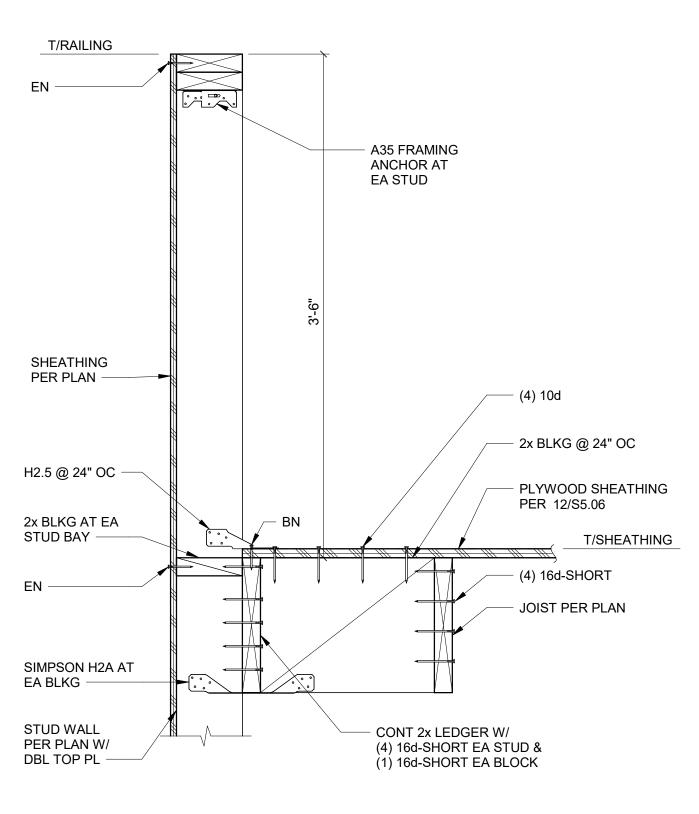
PER 12/S5.06

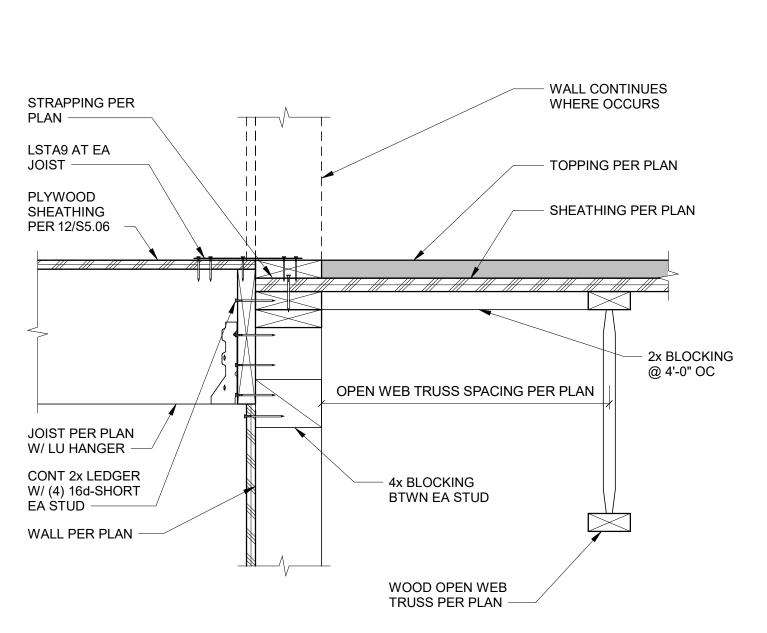
PLYWOOD SHEATHING

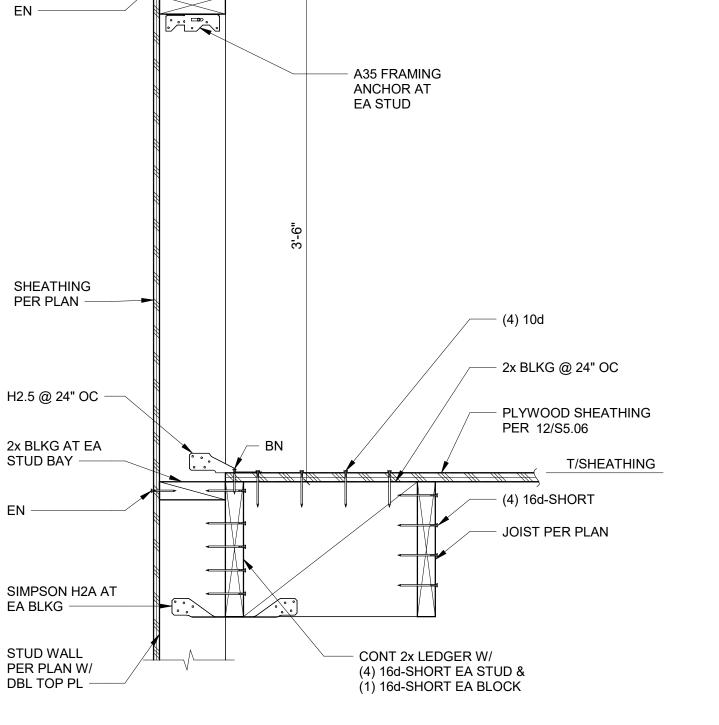
T/SHEATHING

ISSUE LIST PERMIT ISSUE 5/23/23 **BID ISSUE** 3/21/24

EAST STAIR FRAMING **ELEVATION AND DETAILS**









3x SOLID BLOCKING EA END OF STRAP ATTACH

EA END W/ A35 FRAMING

ANCHOR

- (3) 0.148x2 1/2

FÁSTENERS AT EA

- ATTACH STRINGER TO

BLOCKING PIECE

EA STUD W/ A35

- ANCHOR BOLTS PER 11/S5.04

FRAMING ANCHOR

A35 FRAMING ANCHOR AT EA STUD (PROVIDE 2 ANCHORS AT POSTS) -

FRAMING PER ELEVATION —

- 3x SOLID FLAT

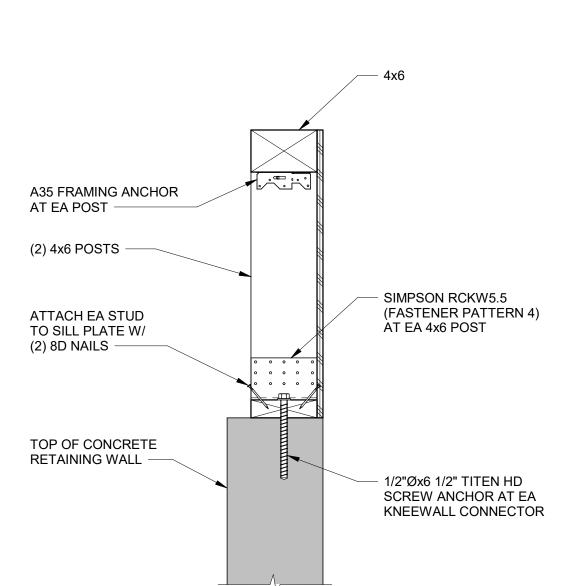
BLOCKING @ 32" OC

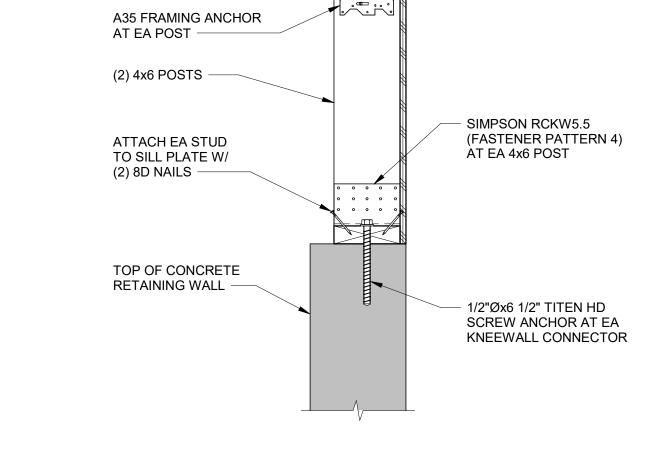
STAIR STRINGERS
PER 4/S5.06

TOP OF CONCRETE

RETAINING WALL







EAST STAIR WALL SECTION

EAST STAIR WALL SECTION

FRAMING PER ELEVATION

BLOCKING @ 32" OC -

- STAIR STRINGERS

PER 4/S5.06 -

3x SOLID FLAT

EAST ELEVATION - EXTERIOR STAIR 12

NOTES:

1. EXTERIOR STUDS AND JAMBS MAY HAVE BORED HOLES PER 12/S5.03 BUT SHALL

T/RAILING

SHEATHING PER PLAN -

H2.5 @ 24" OC -

2x BLKG AT EA STUD BAY -

STUD WALL PER PLAN —

- A35 FRAMING

ANCHOR AT

EA STUD

EAST STAIR WALL SECTION

4x6 CONT TOP

EAST STAIR WALL SECTION
1 1/2" = 1'-0"

3x SOLID BLOCKING EA END OF STRAP ATTACH -

EA END W/ A35 FRAMING

ANCHOR -

(3) 0.148x2 1/2

FÁSTENERS AT EA

ATTACH STRINGER TO

BLOCKING PIECE

EA STUD W/ A35

FRAMING ANCHOR

S3.02

STD HOOK -

2'-0" TO 4'-0"

TYP WALL

STEEL HOOK

END BAR 5

CLEAN SURFACE PRIOR

(2) #4 CONT

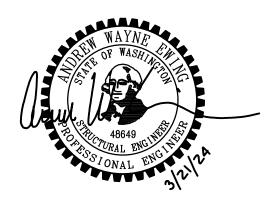
TO CONC POUR

6" MAX

7 3" MIN

BAR W/ 180°

HOOKS



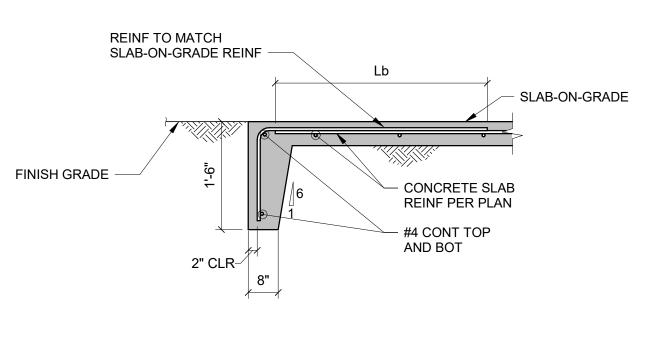
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> ISSUE LIST PERMIT ISSUE 5/23/23 3/21/24 BID ISSUE

TYPICAL CONCRETE

S4.01

REINF TO MATCH SLAB-ON-GRADE REINF SLAB-ON-GRADE **CONCRETE SLAB REINF PER PLAN** #4 CONT TOP AND BOT



TYP THICKENED SLAB EDGE

STEP HEIGHT ≤ 4"

4" < STEP HEIGHT ≤ 1'-0"

SLAB-ON-GRADE REINF

CONTROL

CONTROL

JOINT

CONTROL

JOINT

JOINT

SLAB-ON-GRADE

SLAB-ON-GRADE

- SLAB-ON-GRADE

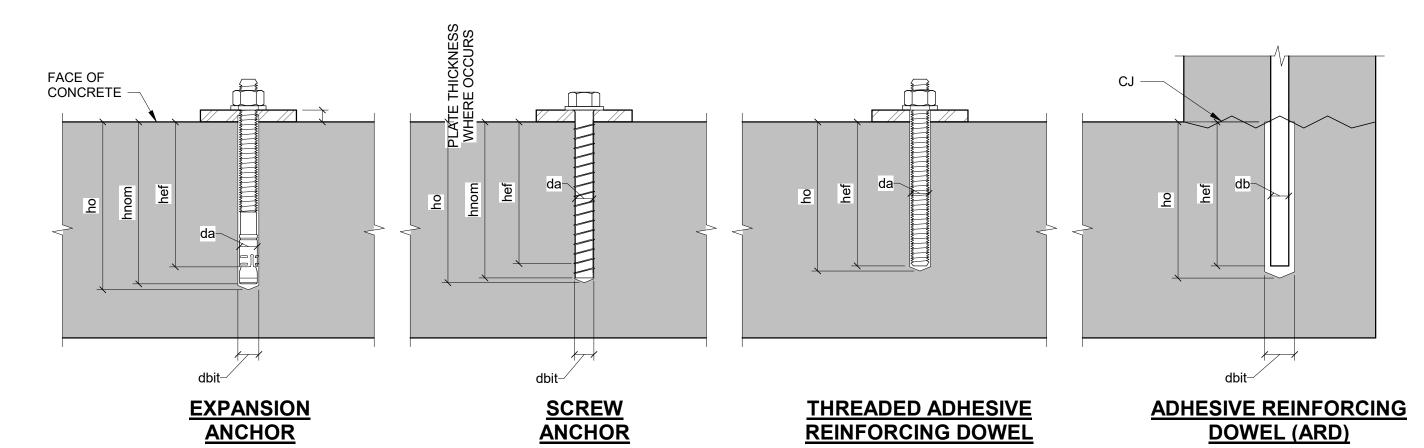
TYPICAL SLAB ON GRADE TRIM REINFORCING

#5 TYP EA SIDE AT MID-DEPTH

#5x3'-0" DIAG

MID-DEPTH TYP

SOG-OPENINGS



-1 1/2" CLR, TYP

EDGE OF SOG

#5x3'-0" DIAG

(1) #5 CONT EDGE REINF

NOTES:

1. REFER TO STRUCTURAL NOTES FOR APPROVED ANCHOR(S) AND **EVALUATION REPORT(S).**

ABBREVIATIONS

hef = EFFECTIVE EMBEDMENT PER DRAWINGS

hnom = NOMINAL EMBEDMENT REQUIRED TO ACHIEVE EFFECTIVE EMBEDMENT PER EVALUATION REPORT. FOR EXPANSION ANCHORS,

2'-6"

SOG-REENTRANT CORNERS

ho = MINIMUM HOLE DEPTH PER EVALUATION REPORT

da, db = DIAMETER OF ANCHOR/BAR PER DRAWINGS

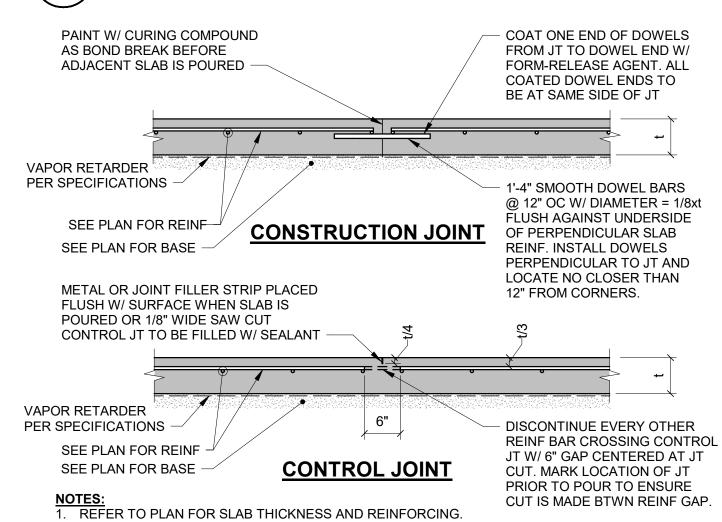
THIS APPLIES TO THE CONDITION PRIOR TO APPLICATION OF TORQUE.

dbit = DIAMETER OF DRILL BIT PER EVALUATION REPORT



TYP SOG **CONTROL & CONSTRUCTION JOINTS**

<u>1'-0" < STEP HEIGHT ≤ 2'-0"</u> TYP SLAB-ON-GRADE STEP PAINT W/ CURING COMPOUND AS BOND BREAK BEFORE



2. CONTROL JOINTS TO BE SPACED @ 36*t OC MAX, EACH WAY, UNLESS NOTED OTHERWISE. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS

CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS. 3. WHERE CONTROL JOINTS ARE SAW CUT, TIMING OF JOINT CUTTING SHALL BE PER THE PROJECT SPECIFICATIONS.

AND SPLICE LENGTH SCHED

AND ARCH (9" MAX) #4 @ 12" OC EW **EQUIPMENT PADS** (1) #4 CONT SEE MECH, ELECT AND ARCH (12" MAX) -

#4 | @ 18" OC

CONCRETE PAD

SEE MECH, ELECT

[f'c=4,000 PSI] -

AROUND PERIMETER

OF PAD, SEE NOTE 2 -

EQUIPMENT CURBS NOTES:

1. EQUIPMENT PAD SIZE TO BE 6" LARGER THAN EQUIPMENT IN EACH DIRECTION, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZE AND LOCATION OF CURB AND PADS WITH EQUIPMENT

CORNER BAR

2'-0" TO 4'-0"

TYP WALL

STEEL HOOK

BARS W/ 180° HOOKS

PLAN VIEW

TYP CONCRETE WALL DETAILS

SEE MECH, ELECT

AND ARCH -

– #4 @ 18" OC, SEE NOTE 2 –

UP TO

2'-0"

– #3 @ 8" OC

STD HOOK

INTERSECTION

- #3 @ 8" OC

180° HOOKS

W/ 180° HOOKS

2. ATTACH REINFORCING TO SLAB WITH ADHESIVE ANCHORING SYSTEM PER STRUCTURAL NOTES.

TYP CURBS & PADS ON CONCRETE SLABS 8

f'_c = 3,000 PSI $f_v = 60,000 \text{ PSI}$ SIZE Ld Ldt Lb Lbt **#4** 22 (33) 28 (43) 28 (43) 37 (56) **#5** 27 (41) 36 (53) 36 (53) 46 (69) **#6** 33 (49) 43 (64) 43 (64) 56 (83) **#7** | 48 (72) | 62 (93) | 62 (93) | 81 (121) **#8** | 55 (82) | 71 (107) | 71 (107) | 93 (139) **| #10** | 70 (104) | 90 (136) | 90 (136) | 118 (176)

f' _c = f _y =	3,000 PSI 60,000 PSI						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

db = BAR DIAMETER

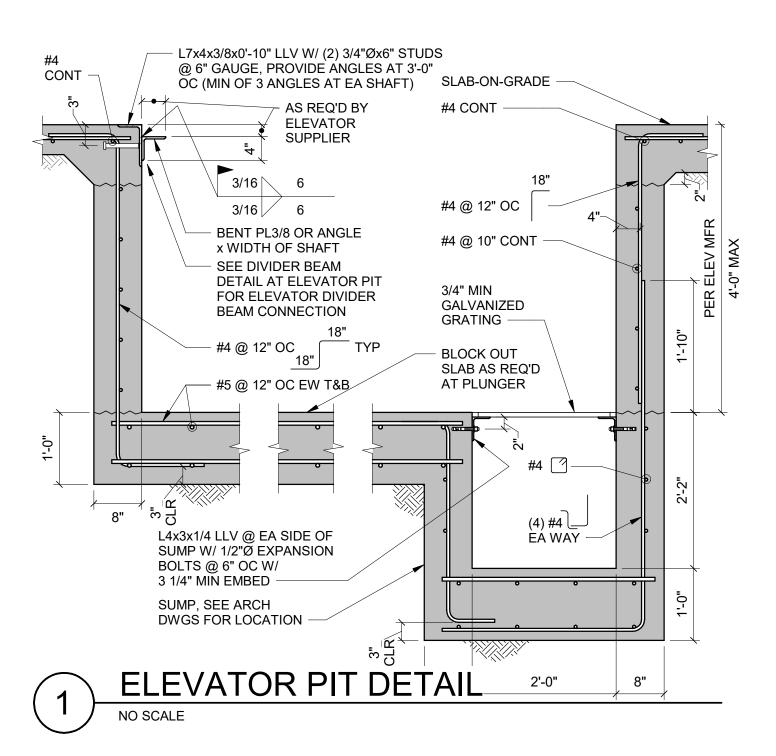
Ld = TENSION DEVELOPMENT LENGTH Ldt = TENSION DEVELOPMENT LENGTH FOR A TOP BAR Lb = CLASS B LAP SPLICE LENGTH, 1.3 Ld

Lbt = CLASS B LAP SPLICE LENGTH FOR A TOP BAR, 1.3 Ldt Ldh = TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK

DEVELOPMENT

TYPICAL POST-INSTALLED ANCHORS NO SCALE

DETAILS



SOG PER PLAN

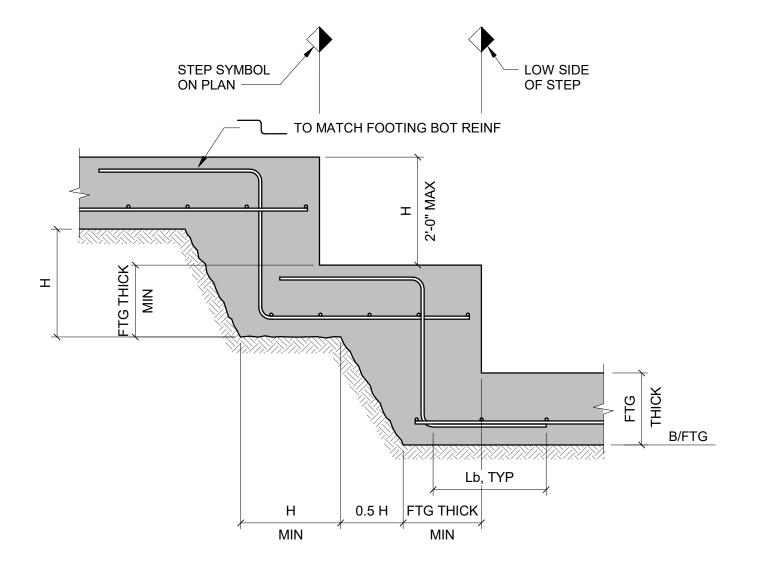
6" CAPILLARY BREAK -

VAPOR RETARDER PER

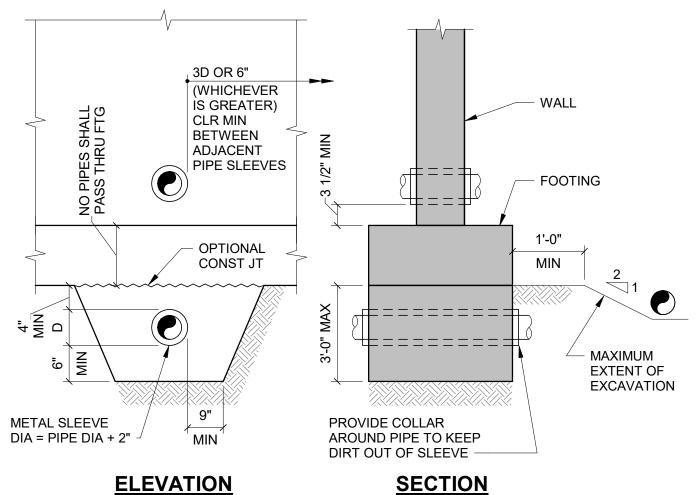
SPECIFICATIONS -

1'-0"

EXTERIOR WALL FOOTING -



TYP STEPPED FOOTING DETAIL



ELEVATION

NOTES:

1. STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS. 2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.

3. "D" SHALL NOT EXCEED 8". TYP DETAIL OF PIPE AT FOOTINGS

WALL PER ARCH (2)#4 CONT TOP -ANCHOR BOLTS PER 5/S5.01 & 9/S5.01 #4 @ 12" OC, ALT HOOK #4 @ 12" OC -SOG PER PLAN -FTG PER PLAN 7 3/4"

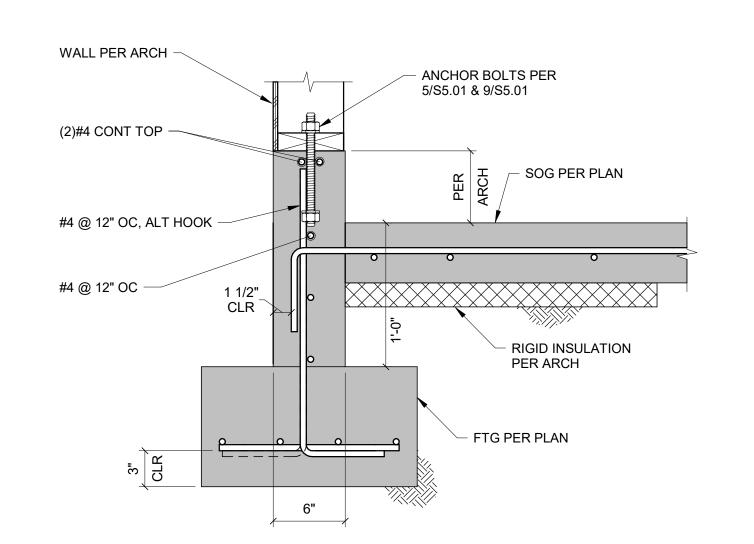
SECTION1 1/2" = 1'-0"

	CONTINUOUS FOOTING SCHEDULE									
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	-					
-	-	-	-	-	-					
-	-	-	-	-	-					

NOTES:

1. SEE 11/S4.11 AND 12/S4.11 FOR TYPICAL FOOTING DETAILS.

CONTINUOUS FOOTING SCHEDULE 8



TYP EXTERIOR FOOTING

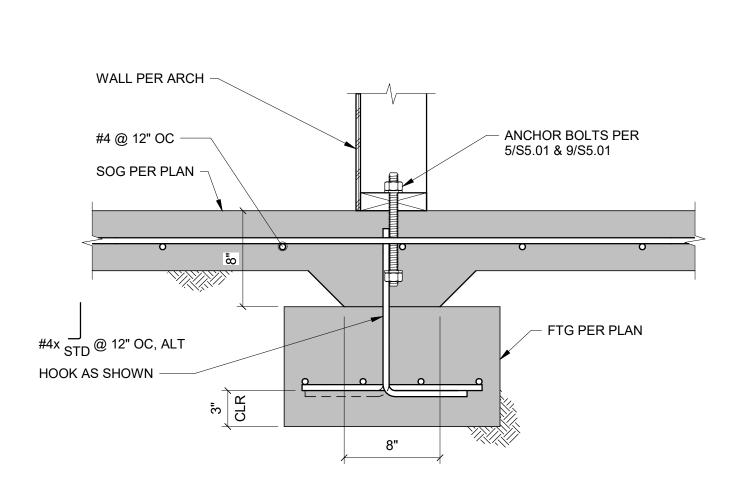
- WALL PER PLAN WALL PER ARCH SOG PER PLAN — #5 @ 18" OC EW 1'-6" ─ FTG PER PLAN RIGID INSULATION PER ARCH -#5 @ 18" OC EW, T&B 3'-0"

THICKENED SLAB

WHERE OCCURS

RETAINING WALL & FOOTING
1 1/2" = 1'-0"

INTERIOR FOOTING



TYP INTERIOR FOOTING
1 1/2" = 1'-0"

STRUCTURAL FILL PER GEOTECHNICAL 1'-0" TYP REPORT PREPARED SUBGRADE **EXTERIOR** <u>INTERIOR</u> TYPICAL FOUNDATION BEARING ZONE PREPARATION

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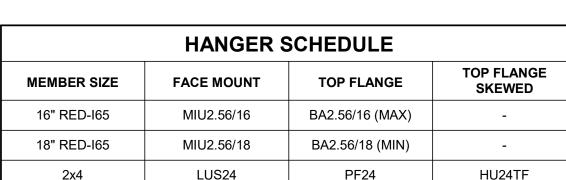
BUILDING

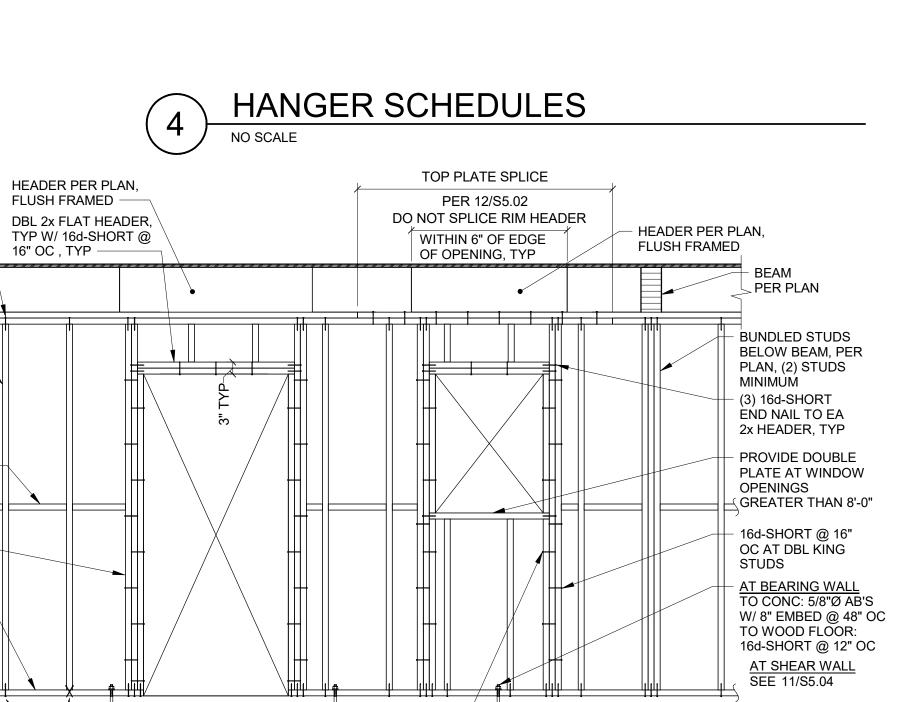
ISSUE LIST 5/23/23 PERMIT ISSUE 3/21/24 **BID ISSUE**

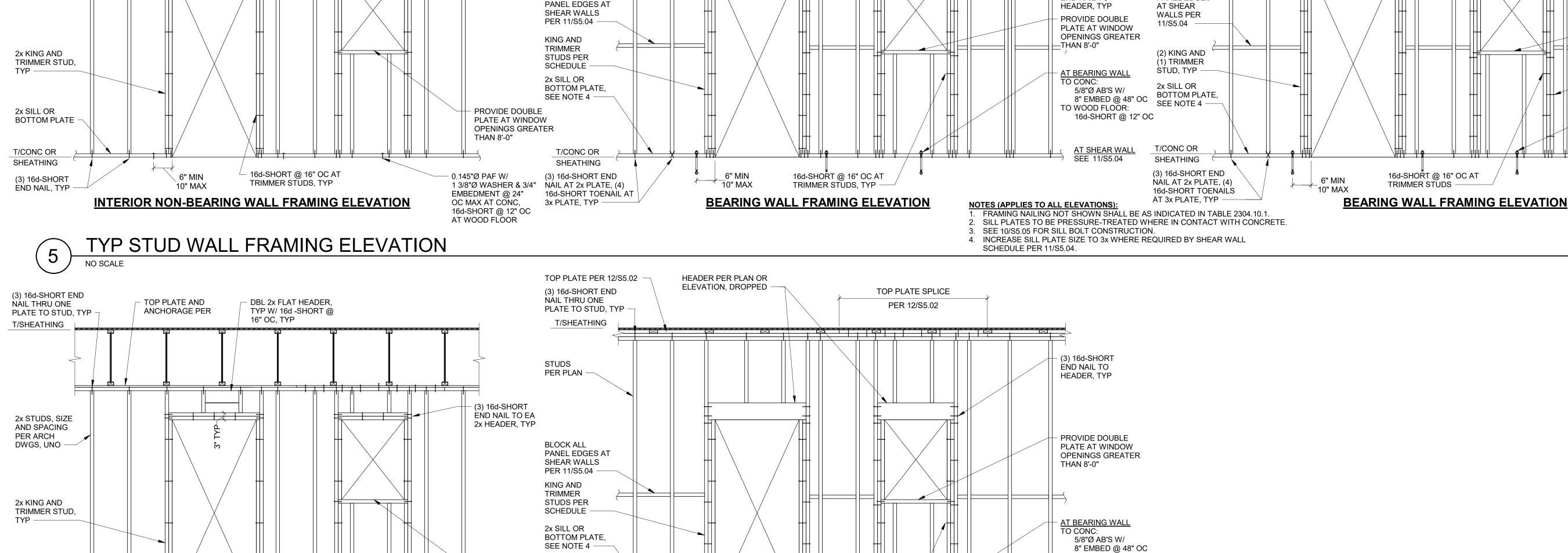
FOUNDATION SECTIONS AND **DETAILS**

S4.11

HANGER SCHEDULE								
MEMBER SIZE	FACE MOUNT	TOP FLANGE	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					







6" MIN

16d-SHORT @ 16" OC AT

TRIMMER STUDS, TYP —

BEARING WALL FRAMING ELEVATION

HEADER PER PLAN

TOP PLATE SPLICE

PER 12/S5.02

RIM BLKG,

BEAM PER PLAN

BUNDLED STUDS

PLAN, (2) STUDS

(3) 16d-SHORT

END NAIL TO

MINIMÙM

BELOW BEAM PER

TYP

OR ELEVATION,

DROPPED -

TOP PLATE PER 12/S5.02 -

(3) 16d-SHORT END

T/SHEATHING

PLATE TO STUD, TYP

NÁIL THRU ONE

STUDS PER PLAN -

BLOCK ALL

(3) 16d-SHORT

ÈŃD NAIL TO EA

2x HEADER, TYP

PROVIDE DOUBLE

THAN 8'-0"

0.145"Ø PAF W/

EMBEDMENT @ 24"

16d-SHORT @ 12" OC

OC MAX AT CONC.

AT WOOD FLOOR

PLATE AT WINDOW **OPENINGS GREATER**

1 3/8"Ø WASHER & 3/4" NAIL AT 2x PLATE, (4)

T/CONC OR

SHEATHING

(3) 16d-SHORT END

3x PLATE, TYP —

16d-SHORT TOENAIL AT

TYP STUD WALL FRAMING ELEVATION AT OPEN WEB TRUSSES

16d-SHORT @ 16" OC AT

TRIMMER STUDS, TYP

INTERIOR NON-BEARING WALL FRAMING ELEVATION

6" MIN

10" MAX

TOP PLATE AND

16" OC, TYP

ANCHORAGE PER

DBL 2x FLAT HEADER.

TYP W/ 16d -SHORT @

TOP PLATE SPLICE

PER 12/S5.02

(3) 16d-SHORT END

PLATE TO STUD, TYP

NAIL THRU ONE

2x STUDS, SIZE

AND SPACING

PER ARCH

2x SILL OR

T/CONC OR SHEATHING

(3) 16d-SHORT

ÈŃD NAIL, TYP

BOTTOM PLATE

DWGS, UNO -

T/SHEATHING

SEE 10/S5.05 FOR SILL BOLT CONSTRUCTION. 4. INCREASE SILL PLATE SIZE TO 3x WHERE REQUIRED BY SHEAR WALL SCHEDULE PER 11/S5.04.

NOTES (APPLIES TO ALL ELEVATIONS):

TO WOOD FLOOR:

AT SHEAR WALL SEE 11/S5.04

16d-SHORT @ 12" OC

I. FRAMING NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1.

2. SILL PLATES TO BE PRESSURE-TREATED WHERE IN CONTACT WITH CONCRETE.

(3) 16d-SHORT

END NAIL THRU

ONE PLATE TO

STUD, TYP —

T/SHEATHING

STUDS

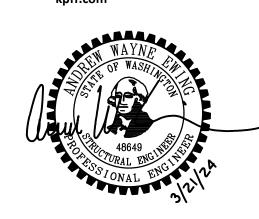
PER PLAN -

BLOCK ALL

PANEL EDGES

TYPICAL WOOD FRAMING DETAILS

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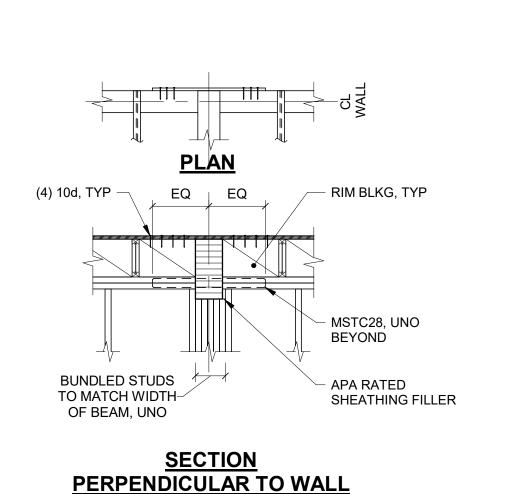


BUILDING TRIBE ALIP 5 MISS ALIP, 3015 TUL

ISSUE LIST PERMIT ISSUE

BID ISSUE

5/23/23 3/21/24



TYP DEEP BEAM SUPPORT DETAILS

- I-JOIST BLKG ABOVE

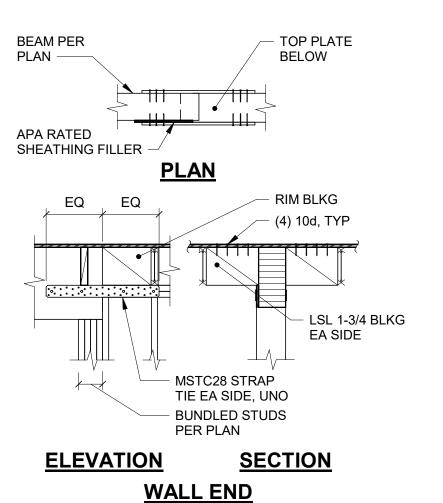
BUNDLED STUDS_ PER PLAN

DROP BEAM, TYP

WALL BEYOND

- I-JOIST PER PLAN

- RIM BLKG, TYP



CONT RIM

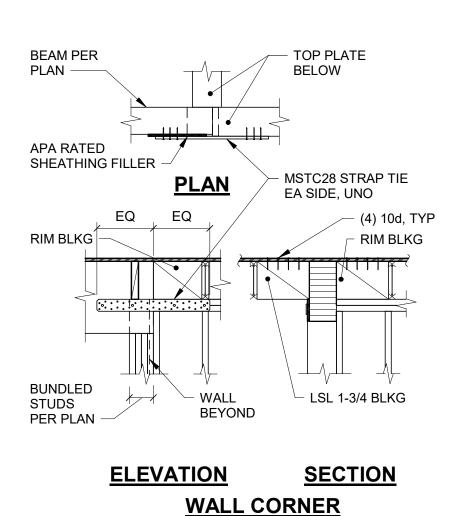
PER PLAN

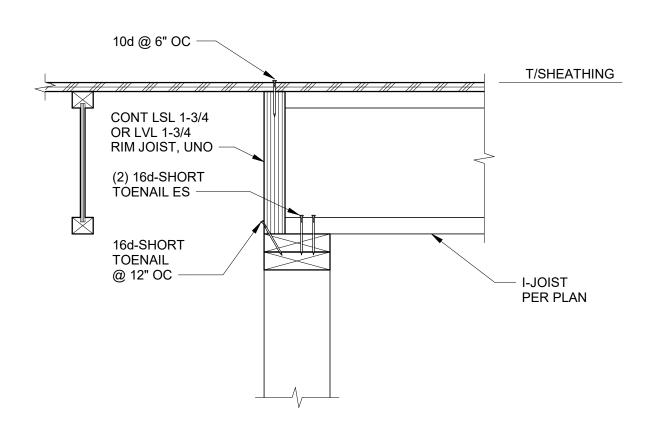
16d-SHORT

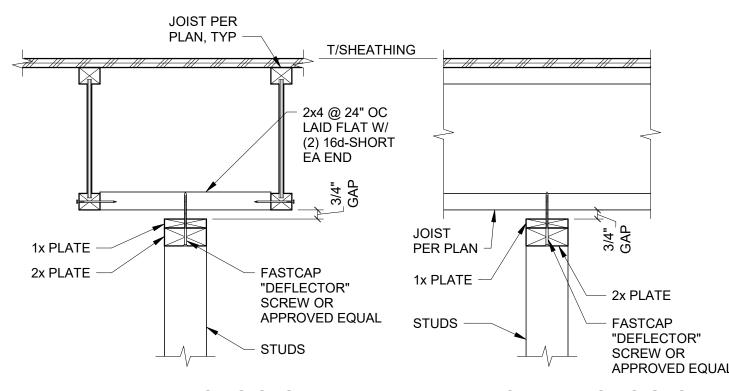
TOENAIL @

JAMB STUDS BEYOND

12" OC -







PARALLEL TO JOISTS **OR OPEN WEB TRUSS**

PERPENDICULAR TO JOISTS **OR OPEN WEB TRUSS**

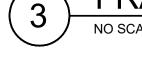
NOTES:

1. DO NOT INSTALL NON-BEARING PARTITIONS UNTIL DEAD LOAD IS IN PLACE. AT ROOF CONSTRUCTION AND WHERE A DEFLECTION SPACE HAS BEEN PROVIDED FOR, THIS

REQUIREMENT MAY BE WAIVED. 2. DO NOT CONNECT CEILING GYP BOARD TO FRAMING WITHIN 24" OF NON-STRUCTURAL PARTITION WALL. OPTION FOR CONTRACTOR TO USE FASTCAP "F-CORNER" TO SUPPORT CEILING SHEATHING.

TYP INTERIOR NON-BEARING WALL TOP PLATE ANCHORAGE

TYP INTERIOR BEARING WALL BELOW -FRAMING DIRECTION CHANGE



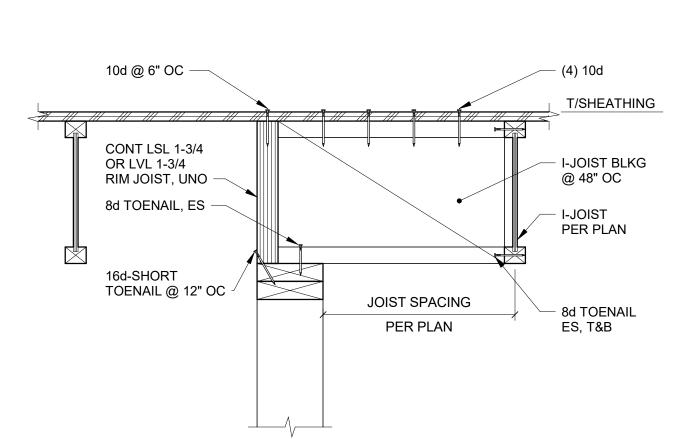
T/SHEATHING

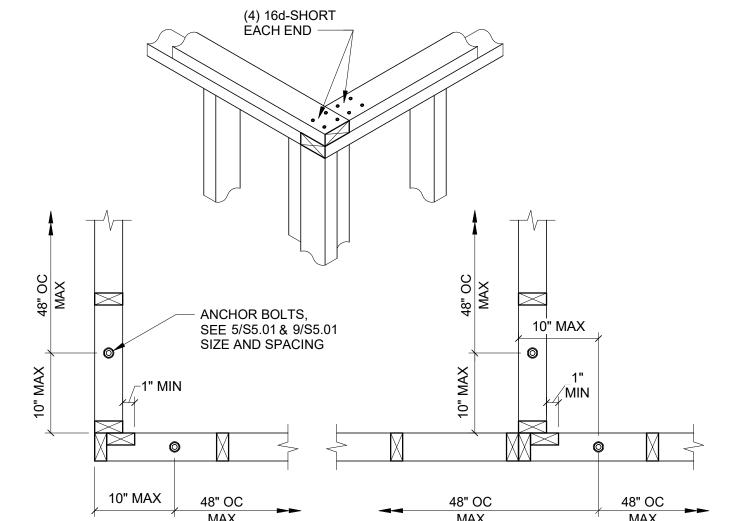
I-JOIST OR BLOCKING

HANGER PER PLAN

PER PLAN







NOTES:

1. ATTACH DROP BEAM TO SUPPORTING WALLS PER 1/S5.02.

TYP DROP BEAM SECTION

T/SHEATHING

DROP BEAM

BUNDLED STUDS TO MATCH WIDTH-

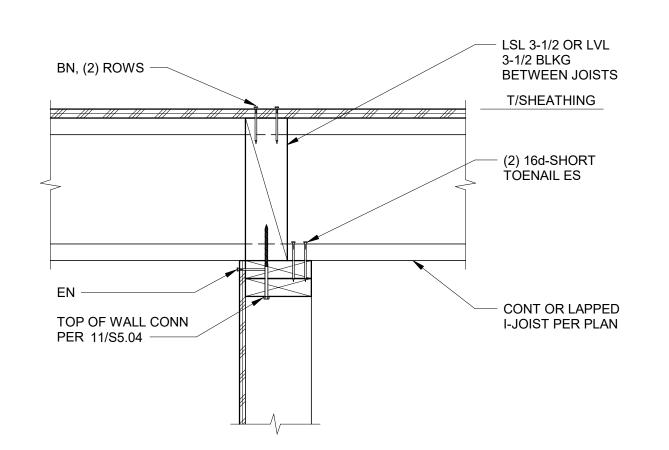
OF BEAM, UNO

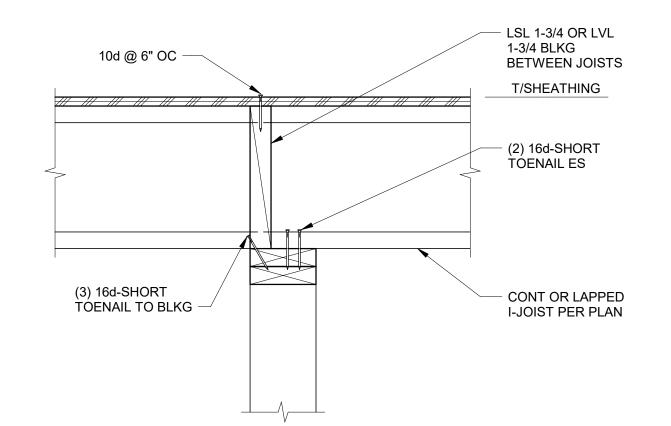
PER PLAN

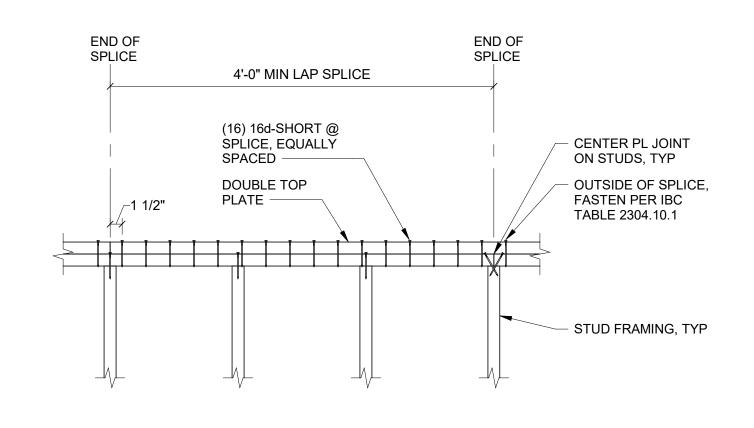
TYP RIM JOIST HEADER

TYP INTERIOR BEARING WALL BELOW -FRAMING PARALLEL

TYP STUD WALL CORNER







TYP INTERIOR SHEAR WALL BELOW -FRAMING DIRECTION CHANGE

TYP INTERIOR SHEAR WALL BELOW -FRAMING PERPENDICULAR

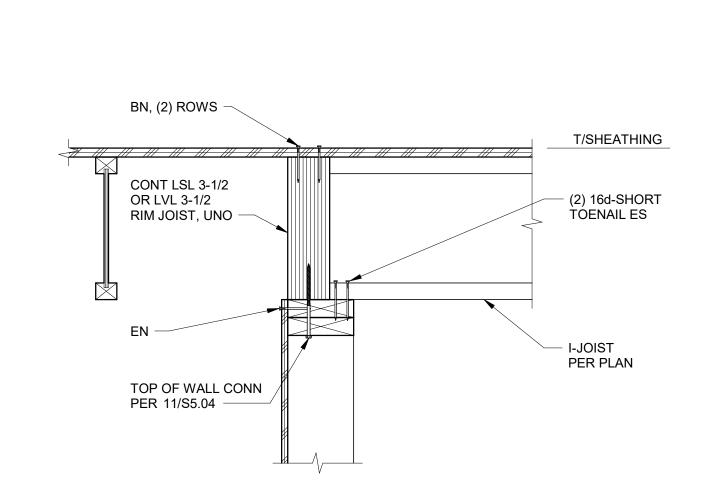
TYP INTERIOR BEARING WALL BELOW -FRAMING PERPENDICULAR

TYP TOP PLATE SPLICE

WHERE WALLS ARE 12'-0" OR LESS IN LENGTH.

> TYPICAL WOOD FRAMING DETAILS

S5.02





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TRIBE

ALIP

5 MIS\$ ALIP,

STUD WIDTH

MAX BORED

STUD WIDTH,

2xLARGER HOLE

SIZE, MINIMUM

MINIMUM

/ EQ

BORED HOLES IN STUDS

MAX BORED HOLE

DIAMETER

1-3/8"Ø

2-1/8"Ø

HOLE DIAMETER

PER SCHEDULE

ISSUE LIST 5/23/23 PERMIT ISSUE **BID ISSUE** 3/21/24

1. DO NOT NOTCH OR BORE HOLES IN MORE THAN TWO ADJACENT STUDS

WITHOUT APPROVAL BY STRUCTURAL ENGINEER. 2. NOTCHES AND BORED HOLES ARE NOT PERMITTED IN SHEAR WALL COMPRESSION STUDS.

TYP WALL STUD PENETRATIONS

MINIMUM DISTANCE FROM SCHEDULE MINIMUM DISTANCE FROM SCHEDULE - 1-1/2"Ø HOLE MAY BE CUT ANYWHERE IN WEB OUTSIDE HATCHED MINIMUM DISTANCE MINIMUM DISTANCE NO HOLES IN ZONE (SEE NOTE 6) HATCHED ZONES -FROM SCHEDULE FROM SCHEDULE 2 x L2 - NO HOLES IN D1 2 x D1 HATCHED ZONES **INTERIOR SUPPORT OR CANTILEVER**

END SUPPORT

- NOTES:

 1. ADAPTED FROM TRUS-JOIST DOCUMENT TJ-4000, NOVEMBER 2017 2. HOLE SIZES: THE SIZES GIVEN IN THE TABLE ARE HOLE SIZES, NOT
- DUCT SIZES. 3. MULTIPLE HOLES: WHERE MORE THAN ONE HOLE IS DESIRED, THE AMOUNT OF WOOD BETWEEN HOLES MUST EQUAL OR EXCEED TWICE THE DIAMETER OF THE LARGEST HOLE OR TWICE THE SIZE OF THE LARGEST SQUARE HOLE.
- 4. HOLES MAY BE LOCATED VERTICALLY ANYWHERE WITHIN THE WEB. LEAVE 1/8" OF WEB MINIMUM AT TOP AND BOTTOM OF HOLE. 5. ANY PENETRATIONS NOT MEETING THE REQUIREMENTS ABOVE MUST
- HAVE PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. 6. THIS TABLE IS BASED ON UNIFORMLY LOADED JOISTS. PENETRATIONS SHALL NOT BE PERMITTED AT JOISTS RECEIVING HEADERS OR SUPPORTING BEARING WALLS ABOVE WITHOUT PRIOR APPROVAL BY
- THE STRUCTURAL ENGINEER. 7. DO NOT CUT HOLES LARGER THAN 1-1/2" IN CANTILEVERS.

MINIMUM DISTANCE FROM INSIDE FACE OF SUPPORT TO NEAREST EDGE OF HOLE AT INTERIOR SUPPORT AT END OF SUPPORT SIZE OR CANTILEVER 4" 6 1/2"

STUD WIDTH

NOTCH -

EXTERIOR/BEARING/SHEAR WALL

STUD PENETRATION

MAX NOTCH DEPTH

7/8"

1-3/8"

JOIST TYPE 6 1/2" | 8 7/8" **TYPE** 6'-6" 1'-0" 2'-0" 2'-6" 5'-6" 10'-0" 11-7/8" TJI 230 ROUND 1'-6" 2'-0" 3'-0" 7'-0" 1'-0" 2'-6" 11-7/8" TJI 230 | RECTANGULAR | 1'-0" 2'-0" 2'-6" 5'-6" 3'-6" 8'-6" 10'-6"

TYP 3-1/2 TRIMMER STUD TO KING STUD CONNECTION

SDW22634

SCREWS

1 1/2" _ __1 1/2"

3-1/2x5-1/4 PSL

JAMB STUD PER

KING STUD PER

SCHEDULE -

SCHEDULE

TYP HOLE CHART FOR I-JOISTS

FACE OF SUPPORT

MAX 2"Ø

HOLE -

D

9-1/2" LSL: MAX 3"Ø HOLE 11-7/8" LSL: MAX 3-5/8"Ø HOLE

FACE OF SUPPORT -

2xLARGER

HOLE SIZE, MIN

2xLARGER

HOLE SIZE, MIN HOLE ZONE

1/3 DEPTH -

9-1/2" AND 11-7/8" LSL (1.55E)

1/3 DEPTH -

LSL (1.3E)

ALLOWABLE

HOLE ZONE -

ALLOWABLE

D

LSL NOTES:

1. ADAPTED FROM

TRUS-JOIST DOCUMENT TJ-9000,

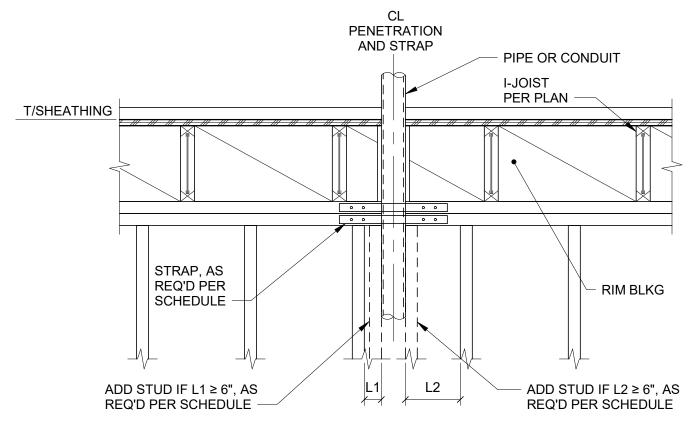
OCTOBER 2017.

LSL NOTES:

1. ADAPTED FROM

TRUS-JOIST

DOCUMENT TJ-9000, OCTOBER 2017.



BEARING WALL PLATE PENETRATION SCHEDULE							
STUD SIZE MAX HOLE SIZE, NO STRAP OR ADDED STUDS MAX HOLE SIZE, (1) RPS18 AND ADDED STUD							
2x4 & 3x4	1"Ø	1-1/2"Ø					
2x6 & 3x6	1-3/8"Ø	3-1/2"Ø					
2x8 & 3x8	1-3/4"Ø	5-1/4"Ø					

- 1. BORED HOLES ONLY. NOTCHES IN WALL PLATES ARE NOT PERMITTED. 2. AT SHEAR WALLS, PLACE STRAPS ON OPPOSITE SIDE OF WALL FROM SHEATHING.
- 4. PLATE PENETRATIONS SHALL BE SPACED 2x THE LARGER HOLE DIAMETER, MINIMUM 5. ANY PLATE PENETRATION NOT MEETING THE REQUIREMENTS ABOVE REQUIRE PRIOR

SHEAR WALL PLATE PENETRATION SCHEDULE					
STUD SIZE	MAX HOLE SIZE, (1) RPS18	MAX HOLE SIZE, (2) RPS18 AND ADDED STUDS			
2x4 & 3x4	1"Ø	1-1/2"Ø			
2x6 & 3x6	1-3/8"Ø	3-1/2"Ø			
2x8 & 3x8	1-3/4"Ø	5-1/4"Ø			

PLATE PENETRATIONS ARE NOT PERMITTED IN DOUBLE-SIDED SHEAR WALLS.

APPROVAL BY THE STRUCTURAL ENGINEER.

TYP WALL PLATE PENETRATIONS

IN WOOD JOISTS AND BEAMS



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

EDGE SAW CUT

CIRCULAR NOTCH -

V NOTCH -

LET-IN NOTCH -

MAX NOTCH DEPTH PER SCHEDULE

NOTCHES IN STUDS

STUD SIZE

2x4 & 3x4

2x6 & 3x6

TYPICAL WOOD FRAMING DETAILS

S5.03

PER PLAN OPENING DOUBLE JOISTS JOIST HANGER PER 4/S5.01, TYP -

1. WHEN OPENING DIMENSION 'W' EXCEEDS 4'-0", REFER TO PLANS FOR FRAMING. 2. WHEN I-JOISTS ARE USED, PROVIDE WEB BLOCKING BETWEEN DOUBLE JOISTS.

(2) ROWS 10d

@ 12" OC -

TYP FLOOR OPENING PLAN

LVL AND PSL NOTES:

1. ADAPTED FROM TRUS-JOIST DOCUMENT TJ-9000, OCTOBER 2017.

MAX 2"Ø ALLOWABLE HOLE SIZE, MIN HOLE -HOLE ZONE

1/3 DEPTH 1/3 LENGTH 1/3 LENGTH **LVL AND PSL** 2xLARGER - ALLOWABLE HOLE SIZE, MIN HOLE ZONE

1/3 DEPTH 1/3 LENGTH 1/3 LENGTH **SOLID SAWN**

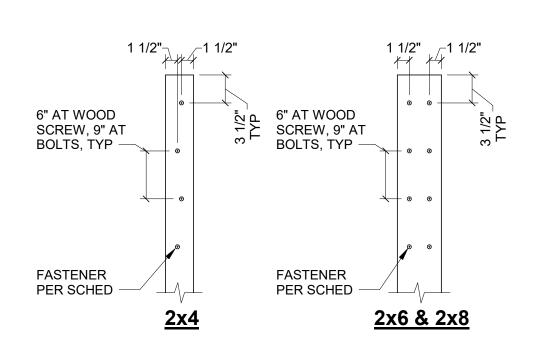
NOTES (APPLIES TO ALL):
1. ROUND HOLES ONLY. RECTANGULAR HOLES ARE NOT ALLOWED.

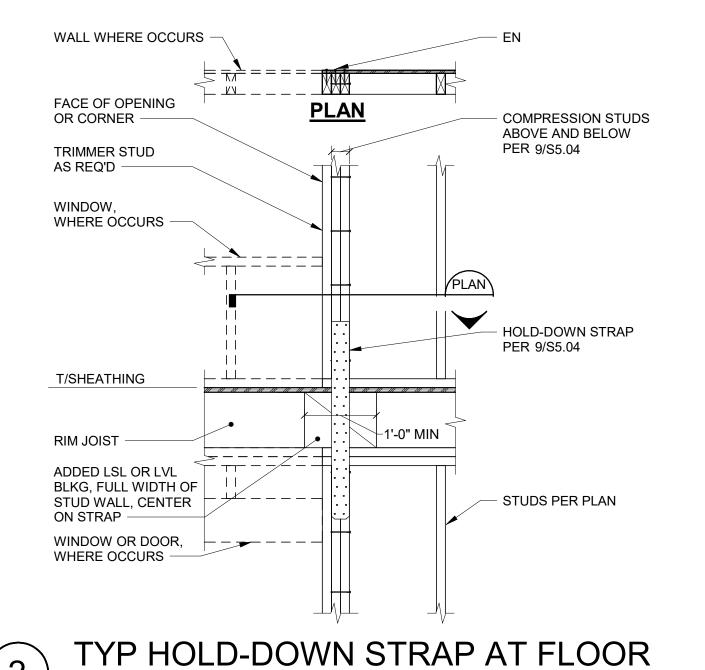
4. OTHER HOLES NOT DESCRIBED ABOVE SHALL BE SUBJECT TO

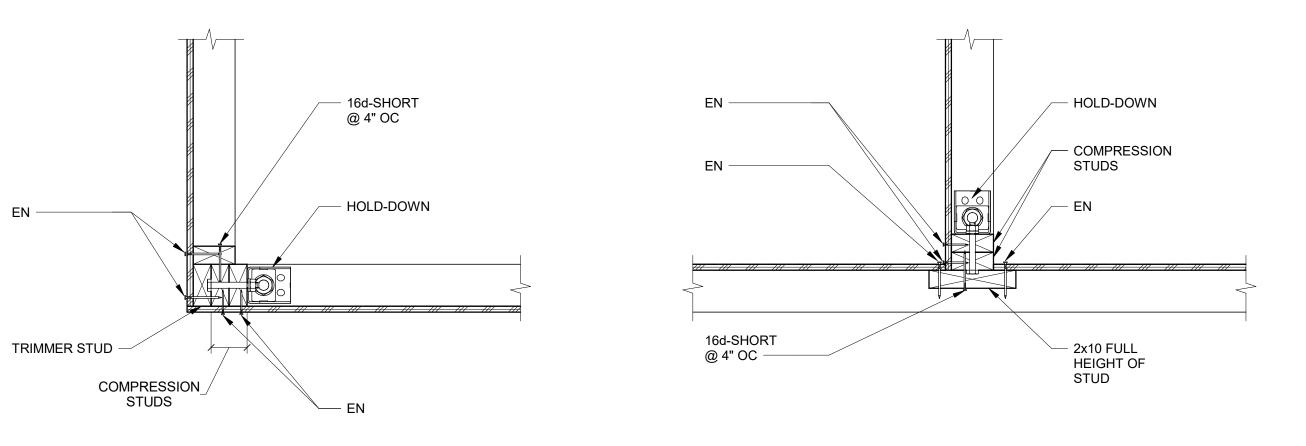
APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO DRILLING.

2. NO HOLES IN CANTILEVERS. 3. NO HOLES IN HEADERS.

TYP HOLES



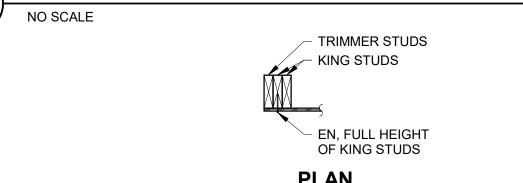


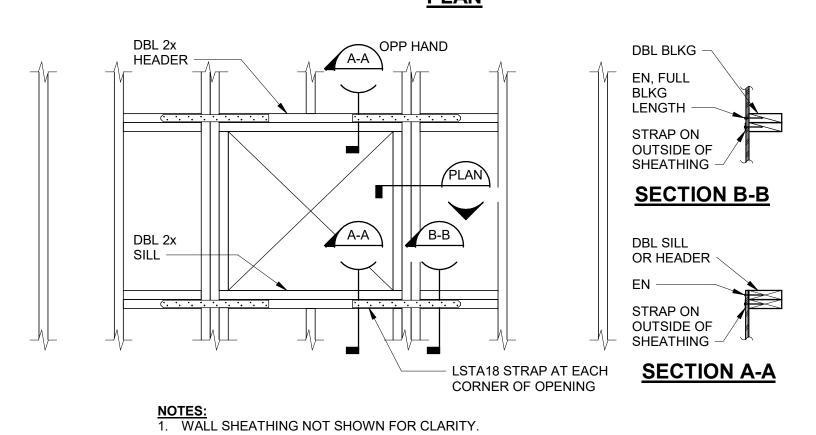


CORNER

TEE INTERSECTION

BUILT-UP COL AND JAMB FASTENING





STRAPS AROUND SHEAR WALL OPENINGS

HOLD-DOWN AND COMPRESSION STUD SCHEDULE

COMPRESSION STUD SCHEDULE

WASHER PL SIZE

1/2X2-1/2X0'-2 1/2"

1/2X2-1/2X0'-2 1/2"

1/2X2-1/2X0'-2 1/2"

1/2X3-1/2X0'-3 1/2"

1/2X3-1/2X0'-3 1/2"

MIN ROD

EMBEDMENT

STUDS, SEE

NOTE 1

(2) 2x6

(2) 2x6

(2) 2x6

(3) 2x6

(3) 2x6

THREADED

ROD SIZE

5/8"Ø

5/8"Ø

5/8"Ø

1"Ø

1"Ø

HOLD-DOWN

HDU2-SDS2.5

HDU4-SDS2.5

HDU5-SDS2.5

HDU11-SDS2.5

HDU14-SDS2.5

NO SCALE

NOTES:
1. FASTEN COMPRESSION STUDS TOGETHER PER 1/S5.04

HOLD-DOWN AND

MARK

	PANEL JOINT
SHEAR WALL SHEATHING	— EN
SEE FASTENING SCHEDULE	STUDS TO BE SNUG W/ NO GAP

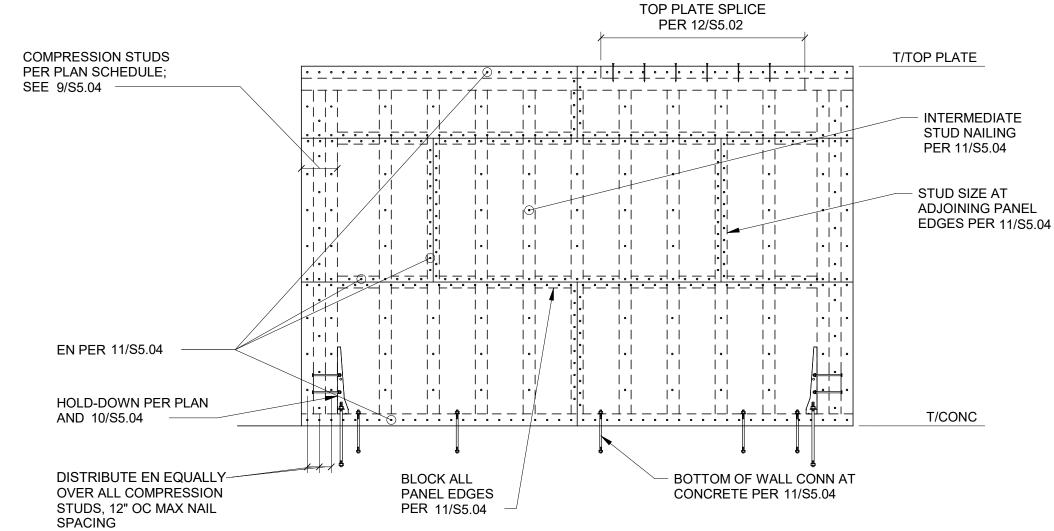
	NING SCHEDULE NEL JOINTS	
SHEAR WALL TYPE	STUD FASTENING	
SW6	(2) 16d-SHORT @ 12" OC	NOTES:
SW4	(2) 16d-SHORT @ 8" OC	1. THIS DETAIL APPLIES WHERE DOUBLE 2x STUDS
SW3	(2) 16d-SHORT @ 6" OC	ARE USED AT SHEAR WALL PANEL JOINTS IN LIEU OF 3x
SW2	(2) 16d-SHORT @ 4" OC	FRAMING PER NOTE 11 ON 11/S5.04.
2SW4 (2) 16d-SHORT @ 4" OC		
2SW3	(2) 16d-SHORT @ 3" OC	

STUD FASTENING AT SHEAR WALL PANEL JNTS

NO SCALE	
WALL WHERE OCCURS $-\!$	EN
FACE OF OPENING OR CORNER	<u>PLAN</u>
TRIMMER STUD AS REQ'D	COMPRESSION STUDS PER SCHEDULE; SEE
WINDOW OR DOOR,	9/S5.04
WHERE OCCURS —	HOLD-DOWN PER 9/S5.04
Π	===== PLAN
MIN ROD	
	AB PER 11/S5.04
T/FTG	THREADED ROD
	PER 9/S5.04
	WASHER PL PER 9/S5.04 W/ DBL HEAVY HEX NUT

$\overbrace{10}$	TYP HOLD-DOWN AT FOUNDATION NO SCALE
$\langle 10 f$	NO SCALE

TYP COMPRESSION STUD INTERSECTION

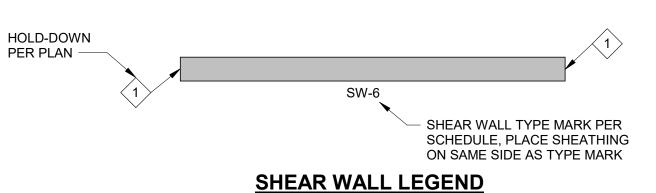


TYP SHEAR WALL NAILING

NO SCALE

	WOOD SHEAR WALL SCHEDULE										
	ALL VALUES ARE BASED ON 2018 IBC AND SDPWS-15 FOR STRUCTURAL PANEL SHEAR WALL WITH FRAMING OF DOUGLAS FIR-LARCH										
		STUD OR BLOCKING	FASTENEI	R SPACING	вот	BOTTOM OF WALL CONNECTION					
TYPE MARK	NUMBER OF SIDES OF	SIZE AT ADJOINING	WALL BOUNDARIES	INTERMEDIATE	AT COM	ICRETE		TOP OF WALL CONNECTION SHEA	SEISMIC ALLOWABLE		
	SHEATHING	PANEL EDGES, SEE NOTE 11	AND PANEL EDGES, SEE NOTE 9	STUDS, SEE NOTE 10	,	NEAR EDGE, SEE NOTE 8	AT WOOD FLOOR		SHEAR (LBS/FT)		
SW-6	1	2x	6" OC	12" OC	5/8"Ø AB @ 48" OC	5/8"Ø AB @ 24" OC	SDS25600 @ 16" OC	SDS25600 @ 16" OC	310		
SW-4	1	3x	4" OC	12" OC	5/8"Ø AB @ 48" OC	5/8"Ø AB @ 16" OC	SDS25600 @ 12" OC	SDS25600 @ 12" OC	460		
SW-3	1	3x	3" OC	12" OC	5/8"Ø AB @ 32" OC	5/8"Ø AB @ 12" OC	SDS25600 @ 8" OC	SDS25600 @ 8" OC	600		
SW-2	1	3x	2" OC	12" OC	5/8"Ø AB @ 24" OC	5/8"Ø AB @ 8" OC	SDS25600 @ 8" OC	SDS25600 @ 8" OC	770		
2SW-4	2	3x	4" OC	12" OC	5/8"Ø AB @ 24" OC	5/8"Ø AB @ 8" OC	SDS25600 @ 6" OC	SDS25600 @ 6" OC	920		
2SW-3	2	3x	3" OC	12" OC	5/8"Ø AB @ 16" OC	-	SDS25600 @ 4" OC	SDS25600 @ 4" OC	1,200		

- NOTES:
 1. SHEATHING NAIL SIZE SHALL BE 0.148"Ø WITH 1-1/2" MINIMUM PENETRATION INTO FRAMING.
- 2. REFERENCE STRUCTURAL NOTES FOR SHEATHING TYPE AND THICKNESS. INSTALL SHEATHING PANELS EITHER HORIZONTALLY OR VERTICALLY.
- 4. PLATE WASHERS FOR SILL BOLTS SHALL BE PER 9/S5.04. WHERE NAIL SPACING IS LESS THAN 4" OC, STAGGER EDGE NAILING 1/2".
- REFER TO 7/S5.04 FOR SHEAR WALL NAILING DETAIL. 7. PRESSURE TREATED SILL PLATE SHALL BE 3x FRAMING.
- 8. USE NEAR EDGE SPACING WHEN ANCHOR BOLTS ARE WITHIN 12" OF A SLAB EDGE OR SHAFT OPENING, OR ARE PLACED IN A STEM WALL.
- WALL BOUNDARIES INCLUDE TOP PLATE, BOTTOM PLATE, SILL PLATE, AND COMPRESSION STUDS, UNO.
- 10. FASTENER SPACING AT INTERMEDIATE MEMBERS SHALL BE 6" OC WHERE STUD SPACING IS 24" OC.
- 11. AT CONTRACTOR'S OPTION, (2) 2x STUDS MAY BE USED IN LIEU OF 3x STUD FRAMING. SEE 6/S5.04 FOR DOUBLE STUD FASTENING.
- 12. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT
- LOCATED ON THE SAME STUD. WOOD SHEAR WALL SCHEDULE



TYPICAL WOOD FRAMING DETAILS

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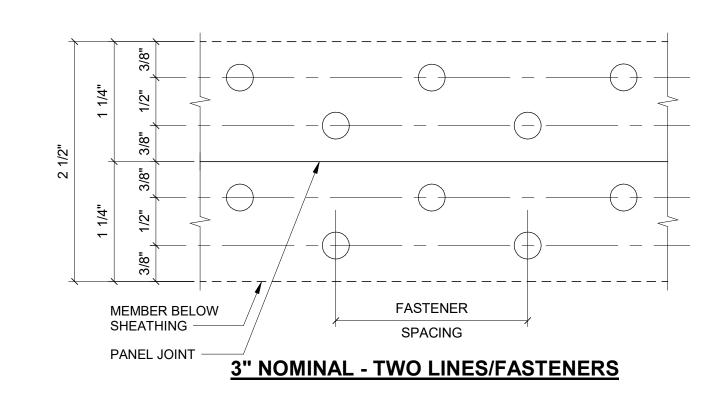
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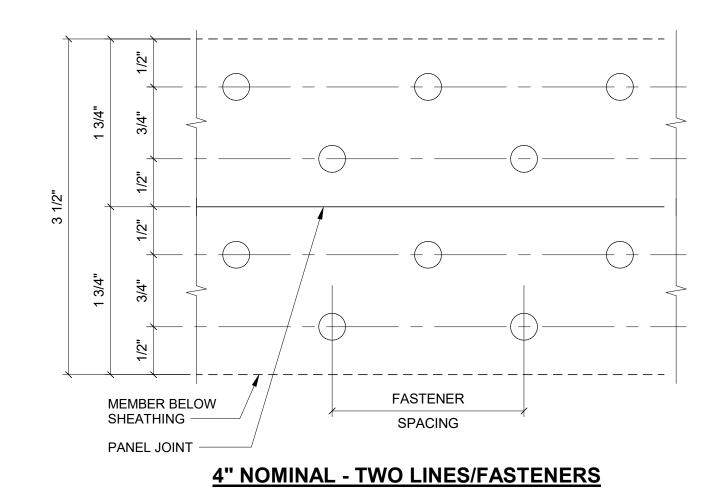
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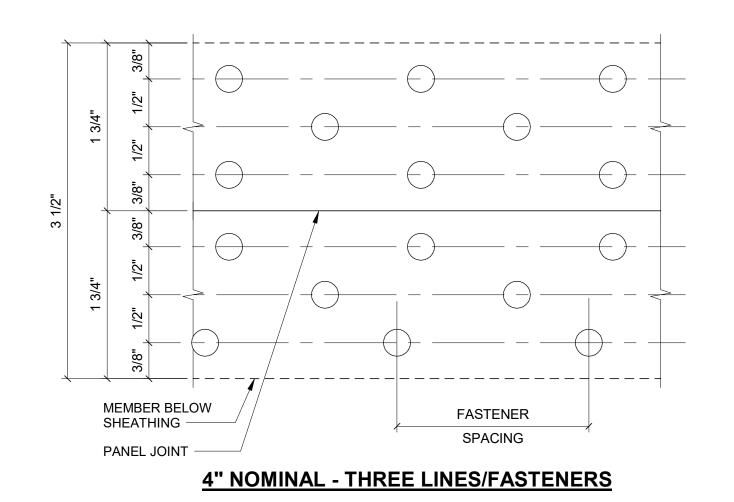
5/23/23 3/21/24

S5.04











AB PER 5/S5.01

OR 9/S5.01

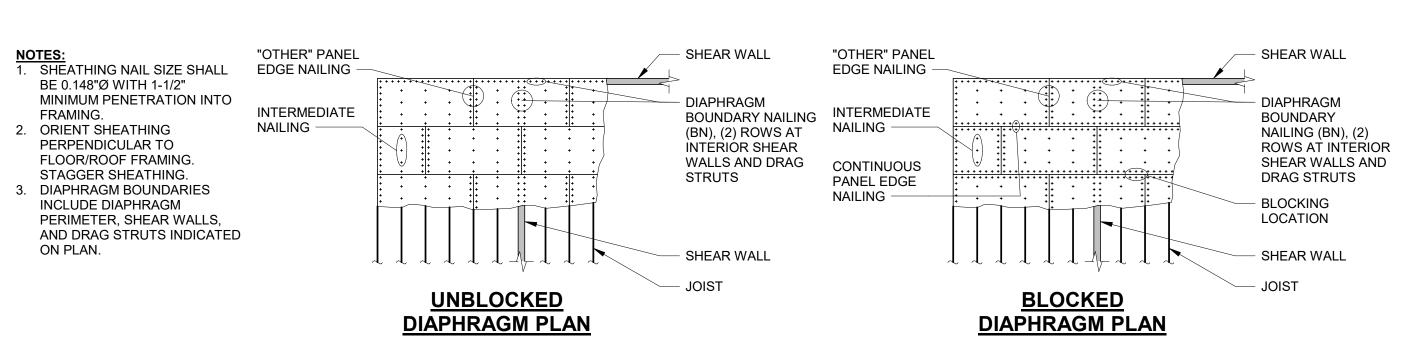
- STANDARD

CUT WASHER

T/STEM WALL

TYP PANEL EDGE FASTENER SPACING

		RO	OF/FLOOF	R DIAPHRA	AGM NAILII	NG SCHEDU	JLE		
ALL V	ALUES ARE BAS	ED ON 2018 IB	C AND SDPWS-	-15 FOR STRUC	TURAL PANEL DI	APHRAGMS WITH	I FRAMING OF I	OOUGLAS FIR-LAR	СН
LOCATION	SHEATHING CATEGORY	BLOCKING REQUIRED	MIN FRAMING AND BLKG WIDTH	NUMBER OF LINES OF FASTENERS	FASTENER SPACING			SEISMIC	
					DIAPHRAGM BOUNDARIES, SEE NOTE 3	CONTINUOUS PANEL EDGES	OTHER PANEL EDGES	INTERMEDIATE FRAMING MEMBERS	ALLOWABLE SHEAR (LBS/FT)
FLOOR	1-1/8	NO	2x	1	6" OC	-	6" OC	12" OC	215
ROOF	19/32	YES	2x	1	4" OC	4" OC	6" OC	12" OC	480



TYP ANCHOR BOLTS AT STEM WALL

BEARING WALL

SHEAR WALL

NOTES:
1. CENTER ANCHOR BOLTS ON THE SILL PLATE.

11/S5.04

- WASHER PL

3GAx3x0'-5"

EN, TYP -

ROOF/FLOOR DIAPHRAGM NAILING SCHEDULE

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TYPICAL WOOD FRAMING DETAILS

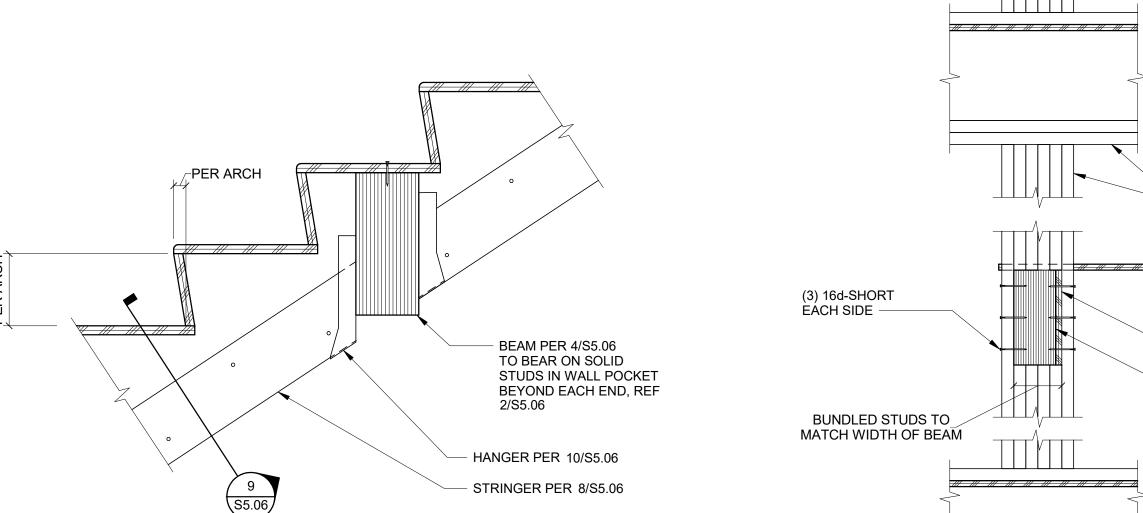
S5.05

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TYPICAL WOOD

STAIRS DETAILS

S5.06



T/SHEATHING

STRINGER PER

ADDED SISTER PER 8/S5.06 SCHEDULE

10d @ 8" OC STAGGERED TOP AND BOTTOM

SCHEDULE

STRINGER CONN TO BEAM

STUD SIZE TO MATCH WALL ASSEMBLY T/SHEATHING @ STAIR SEE PLAN FOR EXTENT APA RATED SHEATHING FILLER STAIR LANDING BEAM, POCKET FULL DEPTH OF STUD WALL T/SHEATHING

T/SHEATHING

STAIR BEAM CONN TO WOOD WALL

STRINGER BEYOND, WHERE OCCURS - ITS 1.81/11.88 HANGER, TYP AT LANDING PER ARCH T/SHEATHING PER ARCH STIFFENER PER JOIST MFR - FLUSH BEAM PER 12/S5.06 OR 4/S5.06; POCKET EA END PER 2/S5.06 - HANGER PER 10/S5.06 9 S5.06 STRINGER PER 8/S5.06

STRINGER CONN TO LANDING

STRINGER SIZE 4x6 DF POST AND SPACING WHERE OCCURS PER 8/S5.06 10 S5.06 PER PLAN S5.06 EQ EQ

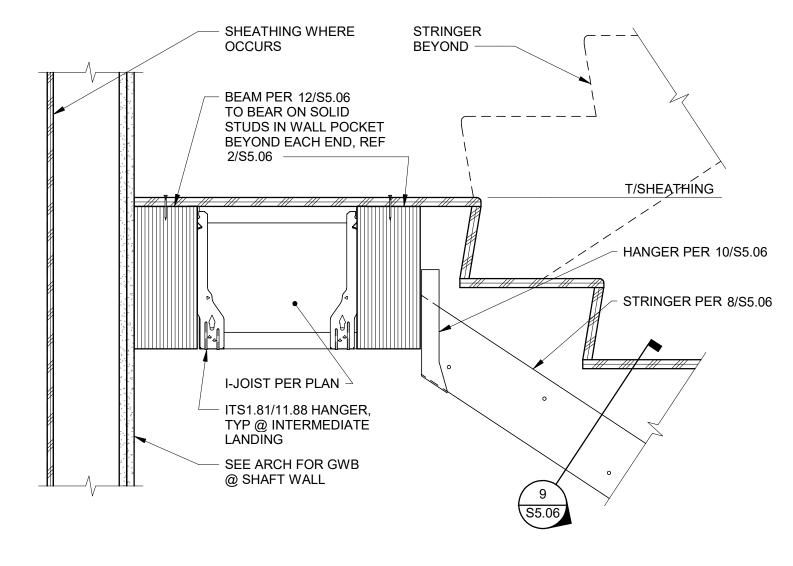
NOTES:

1. PARTIAL PLAN INTENDED TO SHOW FRAMING RELATIONSHIPS AND TYPICAL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL STAIR CIRCULATION, DIRECTION, AND LANDING ELEVATIONS.

TYP STRAIGHT RUN STAIRS

SHEATHING T/SHEATHING WHERE OCCURS -I-JOIST PER 12/S5.06 SEE ARCH FOR GYP BOARD AT SHAFT WALL - I-JOIST BLKG @ 48" OC, MIN (2) PER LANDING

INTERMEDIATE STAIR LANDING -JOIST PARALLEL TO SHAFT WALL



HORIZONTAL SPAN	SIZE	ADDED SISTER	SPACING
UP TO 10'-6"	(2) LSL 1-3/4x14	-	1'-4" OC
UP TO 9'-0"	2x12	2x6	1'-0" OC
UP TO 8'-4"	2x12	2x6	1'-4" OC

WOOD STRINGER SCHEDULE

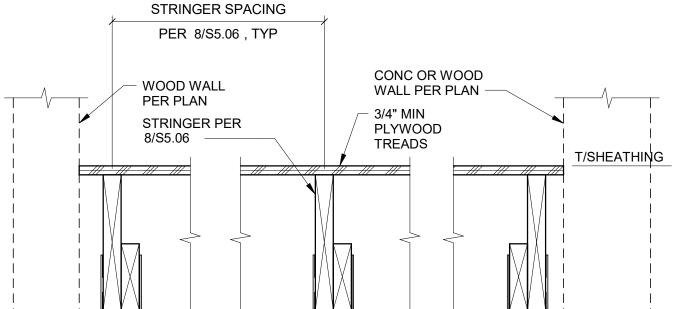
WOOD STRINGER SCHEDULE

MAX STRINGER

 SEE ARCHITECTURAL DRAWINGS FOR STAIR LAYOUT. REFERENCE 9/S5.06 FOR TYPICAL STRINGER SECTION. 3. PROVIDE PRESSURE-TREATED STRINGER WHERE IN CONTACT

MAIN STRINGER

STRINGER

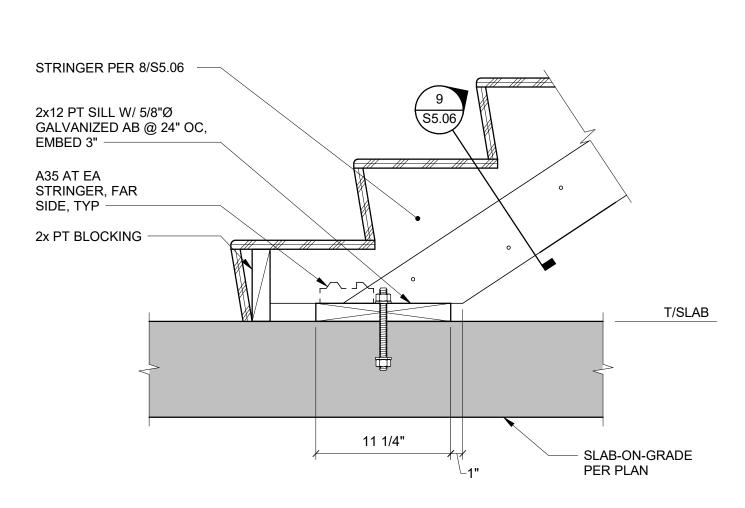


SEE NOTE 1 BEAM BEYOND, SEE NOTE 2 NOTES:

1. PROVIDE HHUSC48 AT (2) 1-3/4" LSL STRINGERS.

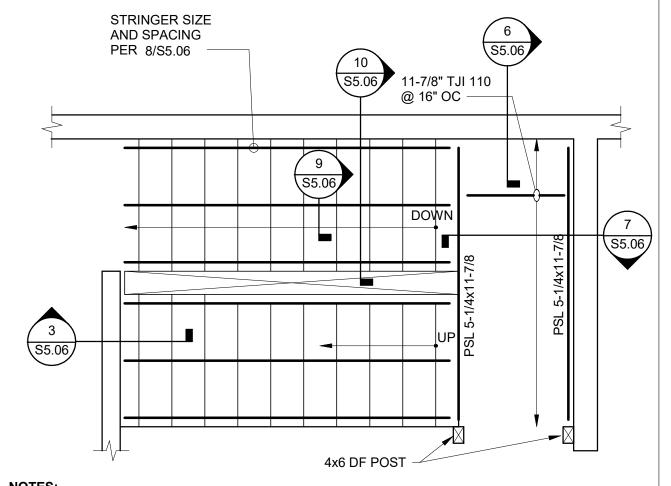
2. AT WOOD WALL, POCKET INTO WALL EACH END PER 2/S5.06. AT CONCRETE WALL, ATTACH PER

STRINGER SECTION



INTERMEDIATE STAIR LANDING

TYP BOTTOM OF STRINGER CONN TO CONCRETE SLAB NO SCALE



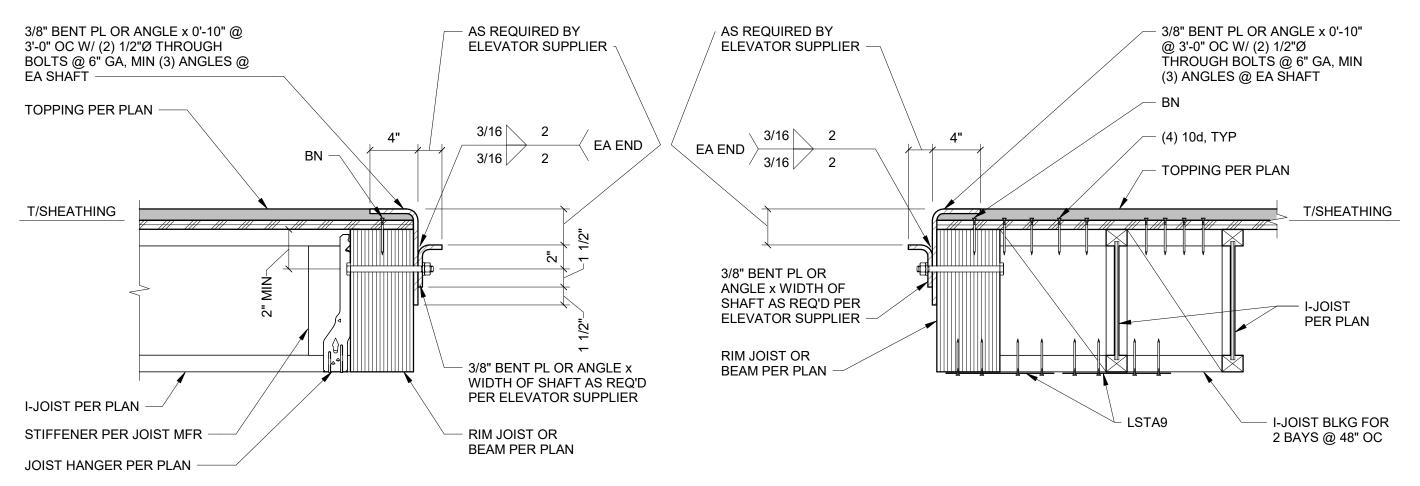
NOTES:

1. PARTIAL PLAN INTENDED TO SHOW FRAMING RELATIONSHIPS AND TYPICAL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL STAIR CIRCULATION, DIRECTION, AND LANDING ELEVATIONS. 2. STAIR LANDING SHEATHING IS 25/32" T&G PLYWOOD ATTACHED TO SUPPORTING FRAMING WITH 8d @ 6" OC AT ALL PANEL EDGES AND 12" OC AT ALL INTERMEDIATE FRAMING.

STAIR WITH MID-LANDING NO SCALE

STRINGER SECTION NO SCALE

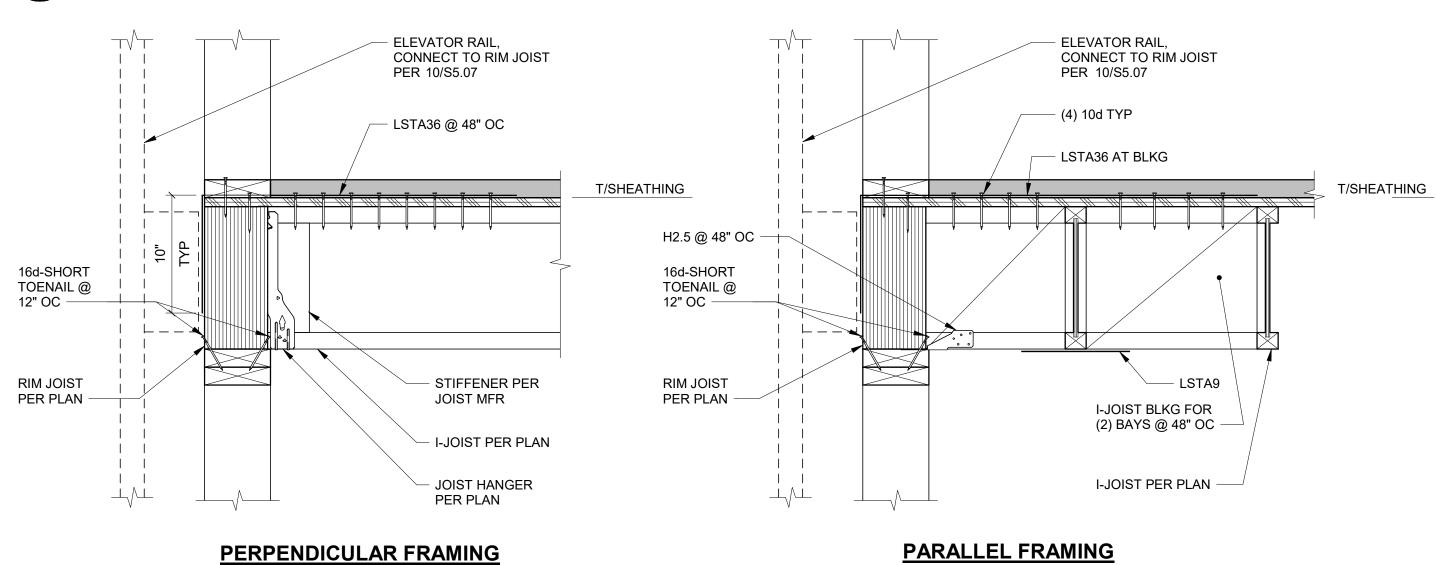
TYP ELEVATOR HOIST BEAM CONNECTION



JOISTS PERPENDICULAR

JOISTS PARALLEL





NOTES:

1. NAILS TO STRAPS NOT SHOWN FOR CLARITY.

TYP ELEVATOR SHAFT AT GUIDE RAILS NO SCALE

STIFFENER PERJOIST MFR T/SHEATHING - I-JOIST PER PLAN NOTES:
1. CONTRACTOR SHALL
COORDINATE RAIL CONNECTION LOCATIONS WITH ELEVATOR SUPPLIER. . ALTERNATE CONNECTIONS AS REQUIRED BY ELEVATOR SUPPLIER SHALL BE SUBMITTED TO ENGINEER OF RECORD

FOR REVIEW PRIOR TO

3. SEE 11/S5.07 FOR ADDITIONAL INFORMATION.

FABRICATION.

CONNECTION PLATE ELEVATION TYP ELEVATOR RAIL CONNECTION PLATE

6" 4" 4"

CL OF ELEVATOR RAIL BRACKET

6" 2"

RIM JOIST PER PLAN -

SUPPLIER

CONNECTION PLATE, SEE ELEVATION —

CONN PL 3/8 W/ (8) 5/8"Ø LAG SCREWS ¬

ELEVATOR RAIL,

CONN TO PL PER **ELEVATOR**

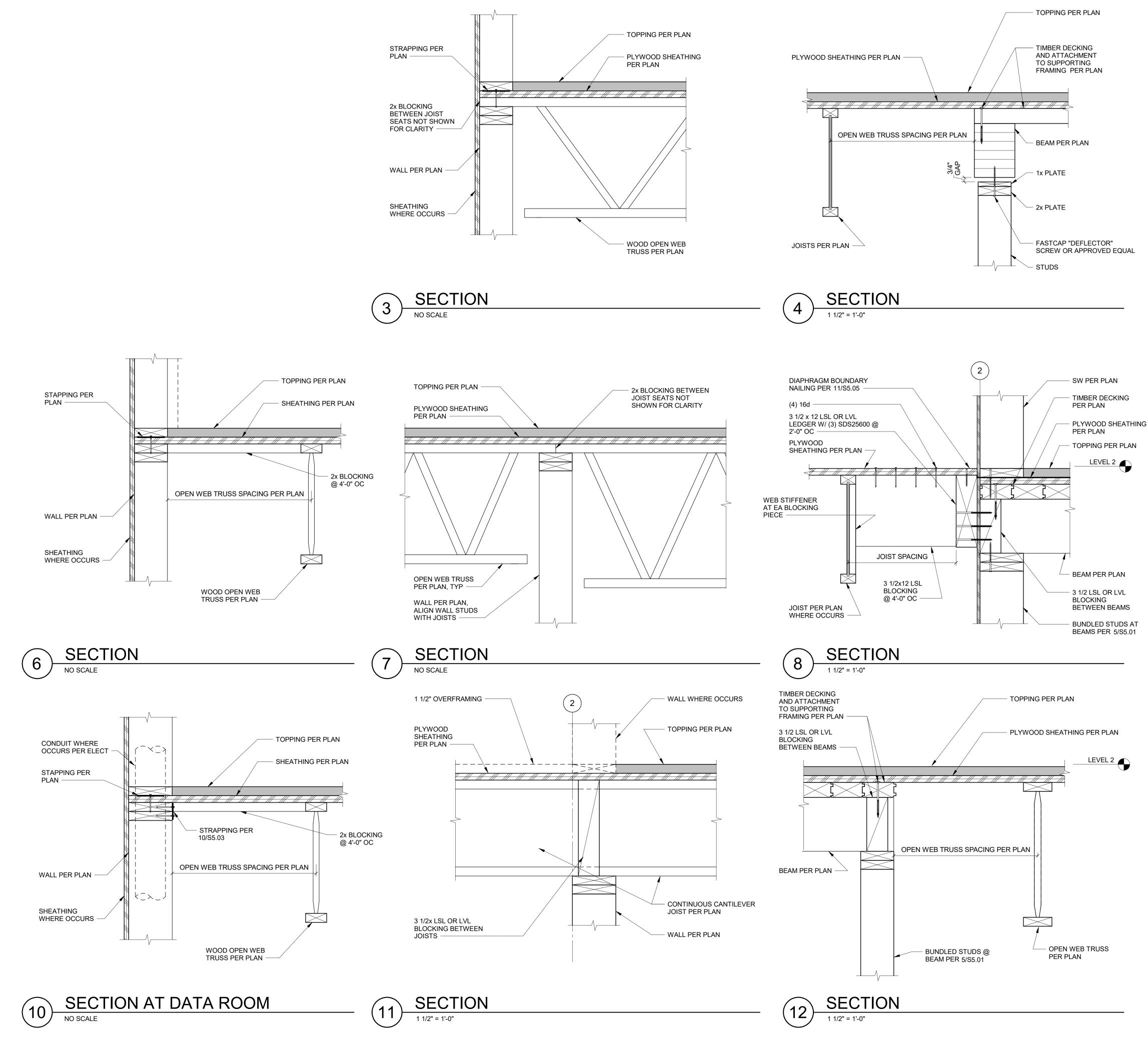
S5.07

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TYPICAL WOOD **ELEVATOR** DETAILS



FREIHEIT

ARCHITECTURE

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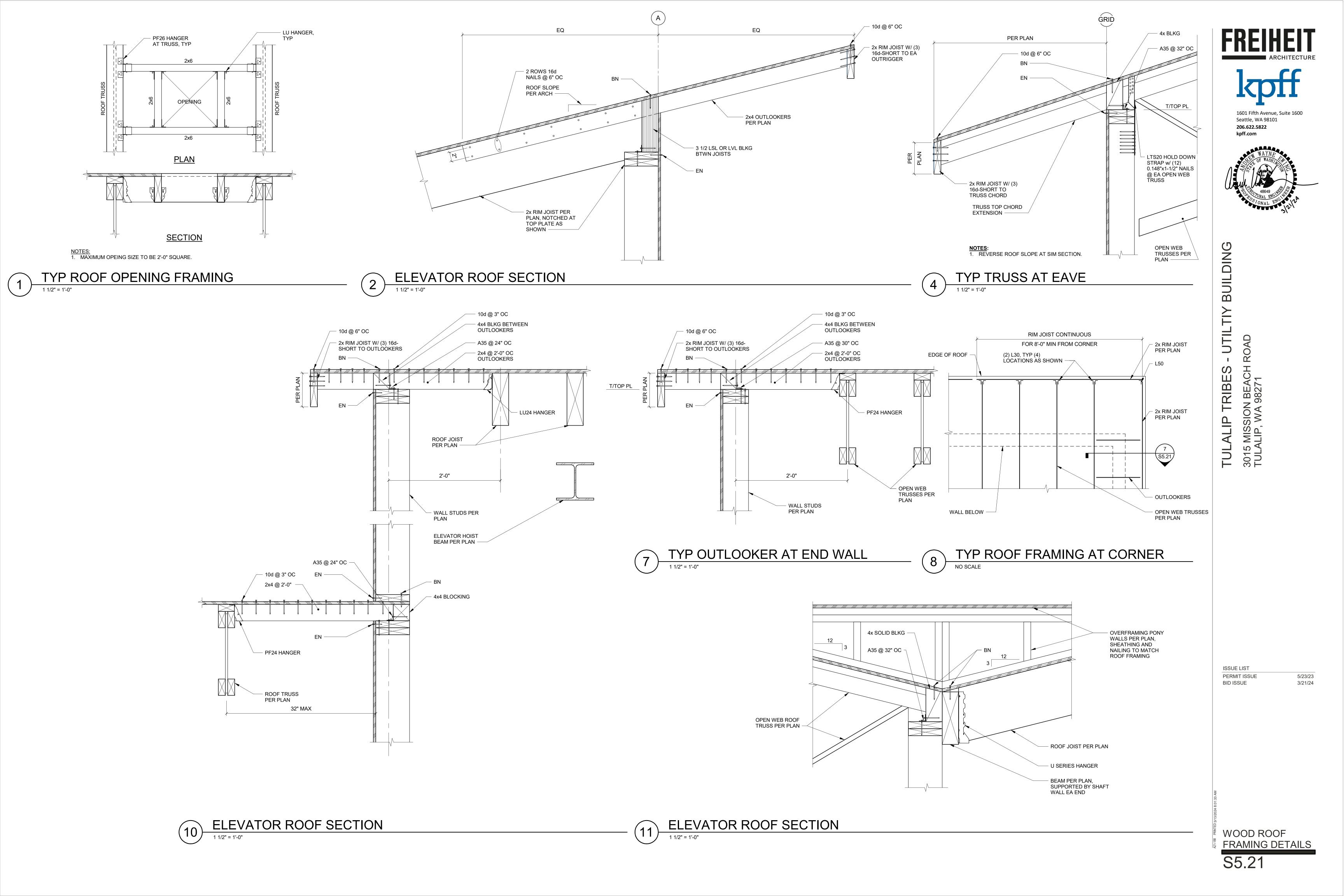
TULALIP TRIBES - UTILTIY BUI 3015 MISSION BEACH ROAD TULALIP, WA 98271

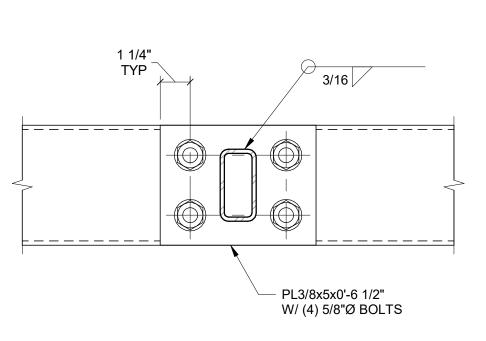
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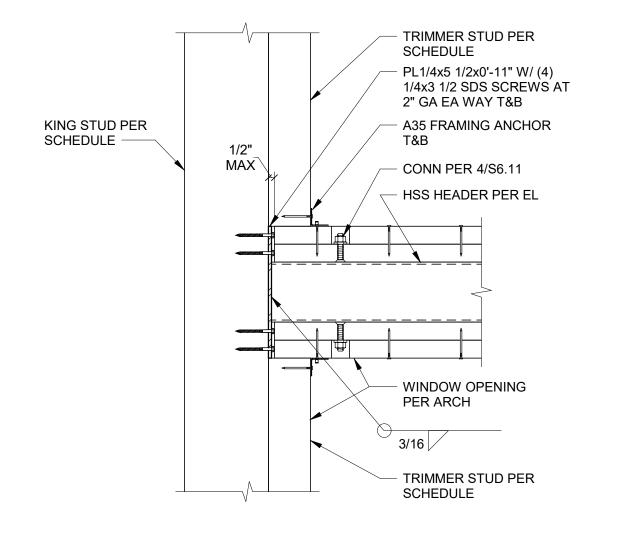
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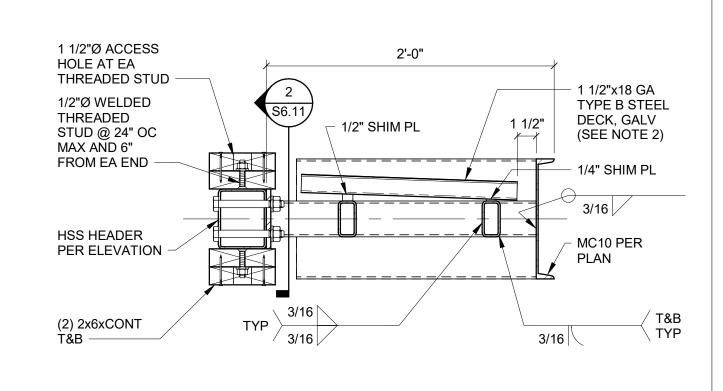
WOOD FLOOR FRAMING DETAILS

S5.11









NOTES:

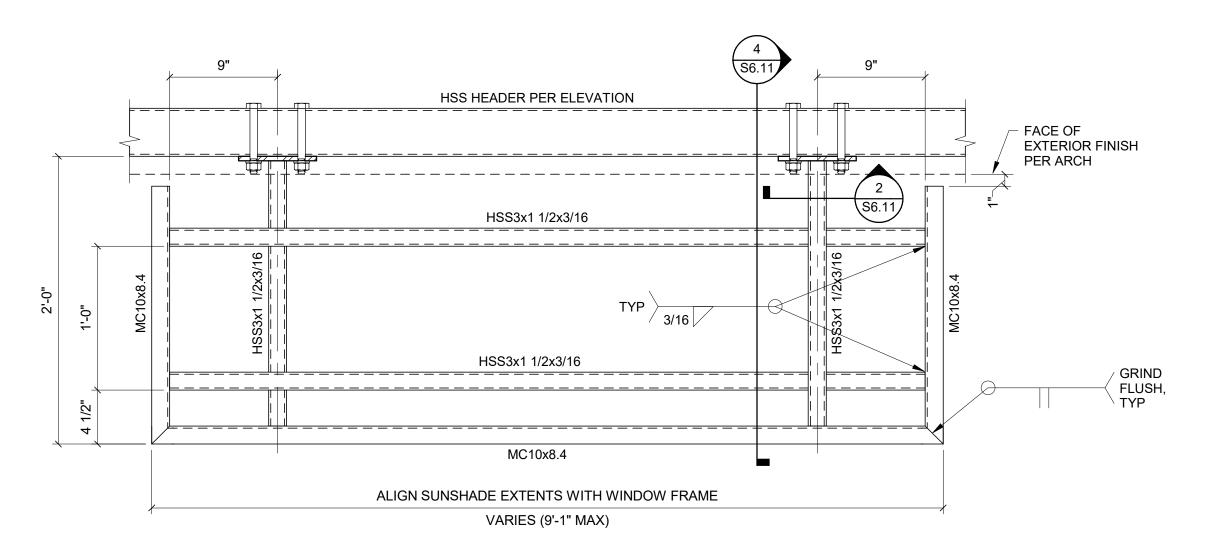
1. ATTACH SHIM PLATES TO SUPPORTING FRAMING WITH 3/16" FILLET WELDS 2-12" OC EACH SIDE.

2. ATTACH STEEL DECK TO SHIMS WITH #12-14x3/4" TEKS SCREWS @ 12" OC.

SECTION

SUNSHADE HEADER CONNECTION
1 1/2" = 1'-0"

SECTION AT SUNSHADE 1 1/2" = 1'-0"



TYP SUNSHADE FRAMING PLAN
1 1/2" = 1'-0"

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BUILDING TRIBES 3015 MISSION BEACH TULALIP, WA 98271 TULALIP

TULALIP UTILITY BUILDING

SYMBOL ABBV. AB	DESCRIPTION BALL VALVE GATE VALVE CHECK VALVE CHECK VALVE GLOBE VALVE GLOBE VALVE GAS COCK SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP HOSE BIBB	SYMBOL THP-1	ABBV. T'STAT AFF ARCH. BFF CDS CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM HSPF	THERMOSTAT ABOVE FINISHED FLOOR ARCHITECT/ARCHITECTURAL BELOW FINISHED FLOOR CEILING DIFFUSER-SURFACE MOUNTED CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR GALLONS PER MINUTE
PRV PRV PRV PRV PRV PRV PRV CO W V CW HW HWC F C, CONI TPL TPL	GATE VALVE CHECK VALVE GLOBE VALVE GAS COCK SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP	THP-1	AFF ARCH. BFF CDS CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	ABOVE FINISHED FLOOR ARCHITECT/ARCHITECTURAL BELOW FINISHED FLOOR CEILING DIFFUSER-SURFACE MOUNTED CEILING DIFFUSER-LAY IN CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV PRV PRV CO W V CW HW HWC F C, CONI TPL TPL	CHECK VALVE GLOBE VALVE GAS COCK SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		ARCH. BFF CDS CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	ARCHITECT/ARCHITECTURAL BELOW FINISHED FLOOR CEILING DIFFUSER-SURFACE MOUNTED CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV CO W V CW HW HWC F C C, CONI TPL TPL	GLOBE VALVE GAS COCK SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		BFF CDS CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	BELOW FINISHED FLOOR CEILING DIFFUSER-SURFACE MOUNTED CEILING DIFFUSER-LAY IN CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV CO W V CW HW HWC F C C, CONI TPL TPL	GAS COCK SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		CDS CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	CEILING DIFFUSER-SURFACE MOUNTED CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV PRV PRV PRV	SOLENOID / MODULATING VALVE THREE-WAY VALVE RELIEF VALVE BALANCING VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		CDL CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	CEILING DIFFUSER-LAY IN CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV PRV PRV PRV	THREE-WAY VALVE RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		CGS CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	CEILING GRILLE-SURFACE MOUNTED CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV RPBP VTR CO W V CW HW HWC F C C, CONII TPL TPL	RELIEF VALVE BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		CGL COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	CEILING GRILLE-LAY IN COEFFICIENT OF PERFORMANCE DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV PRV PRV PRV CO W V CW HW HWC F F C C, CONII TPL TPL	BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		COP DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV PRV PRV PRV PRV PRV PRV PRV	BALANCING VALVE FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		DWG (E), EXIST. ELECT. EC EER EFF FR GC GPM	DRAWING EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	FLOW CONTROL VALVE (SET FOR 1 GPM) AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		(E), EXIST. ELECT. EC EER EFF FR GC GPM	EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	AUTO-FLOW CONTROL VALVE PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		(E), EXIST. ELECT. EC EER EFF FR GC GPM	EXISTING ITEMS ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
PRV RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	PRESSURE REDUCING VALVE UNION THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		ELECT. EC EER EFF FR GC GPM	ELECTRICAL ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		EC EER EFF FR GC GPM	ELECTRICAL CONTRACTOR ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	THERMOMETER PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		EER EFF FR GC GPM	ENERGY EFFICIENCY RATING EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
RPBP VTR CO W V CW HW HWC F C, CONI TPL TPL	PRESSURE GAUGE VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		EFF FR GC GPM	EFFICIENCY/EFFICIENT FLOOR REGISTER GENERAL CONTRACTOR
RPBP VTR CO W V CW HW HWC F C, CONIC	VIBRATION ISOLATOR WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		FR GC GPM	FLOOR REGISTER GENERAL CONTRACTOR
P	WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		GC GPM	GENERAL CONTRACTOR
New	WATER HAMMER ARRESTOR STRAINER BACKFLOW PREVENTION DEVICE END CAP		GPM	
Note	BACKFLOW PREVENTION DEVICE END CAP			GALLONS PER MINUTE
Note	BACKFLOW PREVENTION DEVICE END CAP		HSPF	
VTR CO W V CW HW HWC F C, CONI TPL	END CAP			HEATING SEASONAL PERFORMANCE FACTOR
CO W V CW HW HWC F C, CONI			HWR	HIGH WALL REGISTER
CO W V CW HW HWC F C, CONI	I		HWG	HIGH WALL GRILLE
W V CW HW HWC F C, CONI	VENT THROUGH ROOF		I.E.	INVERT ELEVATION
W V CW HW HWC F C, CONI	CLEANOUT		IPLV	INTEGRATED PART LOAD VALUE
CW HW F	WASTE		LWR	LOW WALL REGISTER
HWC HWC F C, CONI	VENT		LWG	LOW WALL GRILLE
HW F F C, CONI	COLD WATER		MC	MECHANICAL CONTRACTOR
F — F C, CONI	HOT WATER		MECH.	MECHANICAL
C C, CONI	HOT WATER RECIRCULATION		(N)	NEW
TPL TPL	FIRE SPRINKLER		NTS	NOT TO SCALE
TPL TPL	CONDENSATE		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	TRAP PRIMER LINE	$oldsymbol{\Theta}$	POC	POINT OF CONNECTION
	DUCT SECTION - SUPPLY	· ·	TYP.	TYPICAL
	DUCT SECTION - RETURN		U.O.N.	UNLESS OTHERWISE NOTED
	DUCT SECTION - EXHAUST	(WC1)		PLUMBING FIXTURE TAG
12x8 }	RECTANGULAR DUCT (INSIDE DIMENSION)	\smile		
12"ø	ROUND DUCT	EF 1		EQUIPMENT TAG
12x8 SL	SOUND LINED DUCT (INSIDE DIMENSION)	1>		FLAG NOTE
211111111111111111111111111111111111111	FLEXIBLE DUCT			CONNECTION (NECK) SIZE
	SPIRAL DUCT	10"ø CDL -		TYPE (CEILING DIFF. LAY-IN)
	TURNING VANE	300 CFM		FLOW RATE (CUBIC FEET PER MINUTE)
VD VD	VOLUME DAMPER	_3" (125) -		FIXTURE UNITS or BTUH
——M MD	MOTORIZED DAMPER			PIPE SIZE
—O BDD	BACKDRAFT DAMPER			DETAIL NUMBER
		(1)		SHEET ON WHICH DETAIL IS DRAWN
	SUPPLY DIFFUSER	M1.0		
	RETURN GRILLE EXHAUST GRILLE	A		SECTION INDICATOR
	EVENTION LE			SHEET ON WHICH SECTION IS DRAWN
	EARAUST GRILLE	M1.0		

TABLE 313.3 HANGER 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								

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

- 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.
- SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION. . 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.

INSTALL SEISMIC BRACING FOR ALL DUCTWORK, EQUIPMENT AND PIPING PER I.B.C. REQUIREMENTS. PROVIDE ENGINEERED AND STAMPED DESIGN DRAWINGS IF REQUIRED BY IBC. CONTRACTOR TO CONTACT OR HIRE A STRUCTURAL ENGINEER TO DETERMINE BUILDING AND SYSTEM IMPORTANCE FACTORS. UTILIZE ISAT OR OTHER SEISMIC BRACING COMPANY.

GENERAL NOTES

INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.

MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.

COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.

THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK IN ORDER TO OBSERVE EXISTING CONDITIONS. VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES AND BUILDING STRUCTURE.

LOCATE ALL PLUMBING FIXTURES PER ARCHITECTURAL DRAWINGS.

VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.

CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS TO COMPLETE EACH EQUIPMENT HOOK-UP TO THE POINT OF FINAL CONNECTION. CONNECTION BETWEEN VARIOUS PIECES OF EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED.

KITCHEN: CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS. CONNECTION BETWEEN VARIOUS PIECES OF EQUIPMENT SHALL BE MADE BY PLUMBING CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED BY THE KITCHEN CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL ALL FITTINGS. VALVES AND CONTROLS FURNISHED WITH KITCHEN EQUIPMENT AS LOOSE ITEMS, AND SHALL PROVIDE ALL INTER-CONNECTING PIPING REQUIRED TO COMPLETE EACH EQUIPMENT HOOK-UP TO THE POINT OF FINAL CONNECTION FOR WATER, WASTE, GAS AND VENT.

WHERE DRYER VENTS EXCEED 35'-0" IN LENGTH, THE DRYER MANUFACTURER SHALL CERTIFY THAT THE EQUIPMENT WILL PERFORM SATISFACTORILY WITH DUCT LENGTHS SHOWN ON DRAWINGS.

PROVIDE WATER HAMMER ARRESTOR ON FAST ACTION VALVES.

ALL MECHANICAL EQUIPMENT LOCATED IN CEILING CAVITIES THAT REQUIRE ELECTRICAL CONNECTION SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN PERMANENTLY MOUNTED ON THE ELECTRICAL ENCLOSURES THAT INDICATES: "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 THE DRAWINGS. INSTALL SIGN PRIOR TO INSTALLATION OF EQUIPMENT.

ALL MECHANICAL EQUIPMENT THAT REQUIRES ACCESS FOR COIL PULL, FILTER CHANGE, MOTOR CHANGE, COMPRESSOR CHANGE, LUBRICATION, SHEAVE AND BELT CHANGE, FAN CHANGE OUT, ETC. SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN PERMANENTLY MOUNTED ON THE EQUIPMENT ACCESS PANELS THAT INDICATES "THIS EQUIPMENT MUST HAVE A MINIMUM ACCESS OF 36". NO TRADE SHALL BLOCK THIS SPACE.

BALANCING DAMPERS SHALL BE PROVIDED ON ALL DUCTS REQUIRED TO BALANCE TO SPECIFIC CFM'S SHOWN ON PLANS.

MAJOR APPLICABLE CODES:

- 2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS 2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS
- 2018 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS 2018 WASHINGTON STATE ENERGY CODE

CROSS CONTAMINATION

CROSS CONTAMINATION CONTROL PROVIDED BY REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RPBP) PER THE 2018 UPC SECTION 603.

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 ELECTRICAL.

		C TABLE C404.3.1 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		

C404.3.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD. 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 H	ANGER ROD SIZES
PIPE AND TUBE SIZE	ROD SIZE
(INCHES)	(INCHES)
1/2 - 4	3/8

FOR SI UNITS: 1 INCH = 25.4 MM

5 - 8

10 - 23

	MINIMUM PIPE IN	2018 WSEC TABL SULATON THICKN		NESS IN INC	HES) ^a		
FLUID OPERATING	INSULATION CONI	DUCTIVITY		NOMINAL F	PIPE OR TUBE	SIZE (inche	s)
TEMPERATURE RANGE AND USAGE (°F)	Conductivity Btu · in./(h · ft2 · °F) ^b			1 TO < 1-1/2	1-1/2" TO <4	4 TO <8	<u>></u> 8
>350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251-350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201-250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141-200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40-60 0.21 - 0.27		75	0.5	0.5	1.0	1.0	1.0
<40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

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.

LINE VOLTAGE - HVAC CONTROLS AND INTERLOCKS:

LOW VOLTAGE HVAC CONTROLS AND INTERLOCKS:

DESIGNED THAT IS INCLUDED IN THE MECHANICAL

LOW VOLTAGE CONDUIT SHALL BE BIDDER

CONDUIT, CONDUCTORS AND CONNECTIONS BY

ELECTRICAL CONTRACTOR.

CONTRACTOR'S SCOPE

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
- LAVATORIES IN RESIDENCES AND APARTMENTS

1/2

 LAVATORIES IN HOTEL ROOMS LAVATORIES IN PRIVATE HOSPITAL ROOMS

> M4.0 DETAILS M4.1 DETAILS

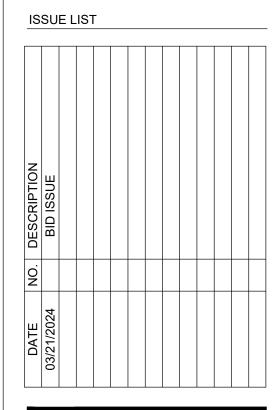
	DRAWING INDEX
SHEET	DESCRIPTION
M1.0	COVER SHEET
M1.1	ENERGY CODE NOTES/SCHEDULES
M1.2	SCHEDULES
M1.3	SCHEDULES
M1.4	SCHEDULES
M2.0	BELOW SLAB PLAN - PLUMBING
M2.1	FIRST FLOOR PLAN - PLUMBING
M2.2	SECOND FLOOR PLAN - PLUMBING
M3.0	FIRST FLOOR PLAN - HVAC
M3.1	SECOND FLOOR PLAN - HVAC
M3.2	ROOF PLAN - HVAC

BID ISSUE



PROJECT NO: 0070800.0





PROJECT NO.: 0070800.01 PROJECT MGR.: M. AZEEM DRAWN BY: CHECKED BY:

COVER SHEET

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 HAVE 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

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

(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
- 4. FANS INCLUDED IN AN EQUIPMENT PACKAGE CERTIFIED BY AN APPROVED AGENCY FOR A ENERGY PERFORMANCE.
- 5. POWERED WALL/ROOF VENTILATORS.
 6. FANS OUTSIDE THE SCOPE OF AMCA 205.
- 7. FANS THAT ARE INTENDED TO OPERATE ONLY DURING EMERGENCY CONDITIONS.

(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

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.

2018 WSEC TABLE C403.10.1.1 OUTDOOR AIR DUCTWORK INSULATION										
DUCT SYSTEM	DUCT LOCATION AND USE	CLIMATE ZONE	AIRFLOW	MINIMUM INSTALLED DUCT INSULATON R-VALUE ^{a, b}	NOTES					
OUTDOOR AIR	INSIDE CONDITIONED SPACE	4C AND 5B	< 2800 CFM	R-7	SEE EXCEPTION 1 TO SECTION C403.10.1.1 FOR ADDITIONAL DETAILS					

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.

a. INSULATION R-VALUES, MEASURED IN h x ft2F/BTU, ARE FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE

2018 WSEC TABLE C403.10.1.2 SUPPLY, RETURN, EXHAUST, AND RELIEF AIR DUCTWORK 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 AUTOMATIC SHUTOFF DAMPER	4C	R-8							
RELIEF OR EXHAUST AIR	CONDITIONED SPACE AND DOWNSTREAM OF AND AUTOMATIC SHUTOFF DAMPER	4C AND 5B	R-16							

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.

a. INSULATION R-VALUES, MEASURED IN h x ft2F/BTU, ARE FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE

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

BRASS BOLT KIT

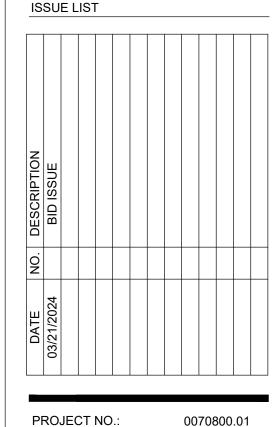
		PLU	MBING EQUIPMENT SCHEDULE
	NO	ITEM	DESCRIPTION
•	WH-1	ELECTRIC WATER HEATER	ELECTRIC WATER HEATER - AO SMITH DRE-120-24, 119 GALLON STORAGE, 24KW, 240V-3PH, W/ PRESSURE & TEMPERATURE RELIEF VALVE, 1-1/4" H&C CONNECTIONS, SET @ 140°F, 98 GPH AT 100 DEGREES F RISE, PROVIDE DRAIN PAN AND SEISMIC STRAPS.
	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

	PLUMBING FIXTURE SCHEDULE	<u> </u>			
TAG	DESCRIPTION	L	OCAL CONN	ECTIONS	
		W	V	HW	CW
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"	1-1/2"	3/4"	3/4"
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	1-1/2" EA		1/2" EA
DW1	UNDERCOUNTER DISHWASHER - OFCI, ROUGH-IN AND CONNECT DOUBLE HW STOP VALVE AT ADJACENT SINK, PROVIDE AIR GAP FITTING AT SINK.			1/2"	
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.			1/2"	1/2"
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"	1-1/2"	1-1/2"	1-1/2"
FD1	FLOOR DRAIN (SLAB ON GRADE) - ZURN 415B, DURA-COATED CAST IRON BODY, NICKEL BRONZE STRAINER, PROVIDE WITH TRAP PRIMER LINE.	2"	2"		
HB1	HOSE BIBB - ZURN Z1320XL, NON-FREEZE, ANTI-SIPHON, SELF-DRAINING, STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER.				3/4"
HB2	HOSE BIBB - ZURN Z1348-BFP, NON-FREEZE, ANTI-SIPHON, SELF-DRAINING, DUAL HOT/COLD EXPOSED FAUCET.			1/2"	1/2"
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"	1-1/2"	1/2"	1/2"
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"	2"	1/2"	1/2"
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"	1-1/2"	1/2"	1/2"
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"	1-1/2"	1/2"	1/2"
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"	1-1/2"	1/2"	1/2"
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"	1-1/2"	1/2"	1/2"
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"	1-1/2"		1/2"
WB1	REFRIGERATOR - O.F.C.I., ROUGH IN AND CONNECT CW, GUY GRAY BIM875 WALL BOX, PROVIDE SHOCK ARRESTOR AND RECESSED WALL BOX.				1/2"
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"	2"		1/2"



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





PROJECT MGR.: M. AZEEM
DRAWN BY:
CHECKED BY:

ENERGY CODE NOTES/SCHEDULES

M1.

	FAN SCHEDULE														
EQUIP.				E.S.P.	F	AN MOTOF	₹	NOISE							
TAG	AREA SERVED	MFG' / MODEL NUMBER	CFM	INCHES	HP/			dBA	DRIVE	CONFIGURATION	WEIGHT	REMARKS			
				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	2, 3, 4, 5, 6, 7			
EF-2	FUME HOOD	GREENHECK / USF-10-1-B3	600	0.5	1/4HP	230	1	55 DBA	DIRECT	UTILITY SET	100	1, 5, 8, 9			
SF-1	036 LAB	GREENHECK / SQ-90-VG	600	0.3	1/10HP	230	1	52 DBA	DIRECT	INLINE	45	1, 2, 5, 6, 8			

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

			MITSU	BISHI ELECT	RIC TRANE	HVAC US: C	ITY MULTI VI	RF OUTDOO	R UNIT SCH	EDULE				
					Cooling		Corrected	Corrected			Electrical-l	Per Module		
			Nominal Cooling	Nominal Heating	Efficiency	Heating COP @	Cooling Total	Heating Capacity	Sound Pressure		208	/230		
Tag Reference	Model Number	Modules	Capacity (BTU/h)	Capacity (BTU/h)	IEER/EER	47°F	Capacity (BTU/h)	(BTU/h)	(dBA)	Voltage / Phase	MCA 208/230	RFS	MOCP	Notes / Options
										208/230V / 3-				
U-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.

					MITSUB	ISHI ELECTR	IC TRANE H	VAC US: CIT	Y MULTI VR	F INDOOR U	NIT SCHEDU	ILE						
Room Name	Tag Reference	Model	Туре	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Total		Heating Capacity (BTU/h)	Estimated	Estimated	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Power Cooling 208V/230V (kW)	Electrical MCA/MFS	Notes / Options
															208/230V/1-			
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		phase	0.04	0.24/0.24/15	1, 2, 3, 4, 5, 6
034 BILLING OFFICE	FCU-2	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	4,216.1	4,163.2	3,158.5	61.1	90 E	1/4 / 1/2	HIGH	200		208/230V/1- phase	0.02	0.24/0.24/15	1 2 2 4 5 6
OFFICE	FCU-2	PLFT-PUSINFIVIU-E	Ceiling-Cassette	5,000.0	5,600.0	4,210.1	4, 163.2	3, 136.3	01.1	80.5	1/4 / 1/2	IniGn	280		208/230V/1-	0.02	0.24/0.24/15	1, 2, 3, 4, 5, 6
BREAKROOM	FCU-3	PLFY-P08NFMU-E	(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		phase	0.02	0.28/0.28/15	1, 2, 3, 4, 5, 6
036	1 00-3	TELLIFICOLALINO-E	Ceiling-Cassette	0,000.0	3,000.0	0,7 40.0	3,070.7	3,070.2	57.5	04.5	1/4/ 1/2	111011	010		208/230V/1-	0.02	0.20/0.20/10	1, 2, 3, 4, 3, 6
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		phase	0.03	0.35/0.35/15	1, 2, 3, 4, 5, 6
036	, , , ,		Ceiling-Cassette			,	,	,,,,,,,,	9=.0	7			7		208/230V/1-	7		1, 2, 3, 1, 3, 3
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
															208/230V/1-			
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	phase	0.02	0.24/0.24/15	1, 2, 3, 4, 5, 6
															208/230V/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		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
															208/230V/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		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		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		phase	0.07	230V)/15	1, 2, 3, 4, 5, 6
															208/230V/1-			
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	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)

3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with 4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and

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

	EL	ECTRIC DU	JCT F	IEATER S	SCHEDUL	E.									
	PRESSURE ELECTRICAL														
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	DH-3 SF-1 TUTCO EDH 6 12"x 10" 0.025 240 3 1, 2, 4														

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).

	E	LECTRIC HI	EATE	R SCHEE	DULE		
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

COORDINATE LOCATION OF UNIT W
 PROVIDE WALL MOUNTED TSTAT.

2. PROVIDE WALL MOUNTED TS3. LINE VOLTAGE THERMOSTAT

			LOSS	NAY ENERG	Y RECOVER	RY VENTILA	TOR SCHEDU	JLE			
						Nominal Reco	very Effectiveness (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.2 See schematic piping/control diagram for indication of required lossnay local remote controller (stand alone operation) and M-NET connection points of associated systems.

3 Washable factory standard pre-filter on return and O/A intake side of cross plate core.

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

Notes & Options:

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.

	DUCTLESS SPLIT SYSTEM HEAT PUMP																					
	OUTDOOR CONDENSING UNIT											INDOOR AIR HANDLER										
EQUIP.	AREA SERVED	MFG' / MODEL NUMBER	NOMINAL	COOL CAF	P. MBH	WEIGHT	NOISE	HEAT				ELEC. REQ.		EQUIP.	MFG' / MODEL NUMBER	AIRFLOV	/ ESP		ELEC. REQ.		WEIGHT	REMARKS
TAG			TON	TOTAL	RANGE	LBS	DBA	CAP. MBH	HSPF	SEER	MCA	VOLTS	PH.	TAG		CFM	IN W.G.	MCA	VOLTS	PH.	LBS	1
CU-2	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
CU-3	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

NOTES: 1. PROVIDE WIRELESS REMOTE CONTROLLER

1. PROVIDE WIRELESS REM2. 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

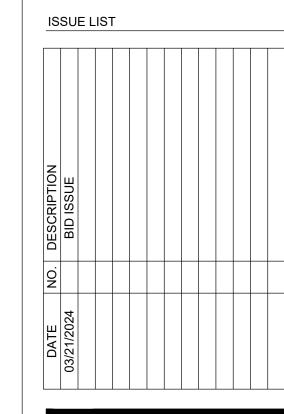
FREIHEIT

BID ISSUE



FRIBES - UTILITY BUILDING
THE MISSION BEACH ROAD
THE MESSION 88271





PROJECT NO.:
PROJECT MGR.:
DRAWN BY:

0070800.01

M. AZEEM

DRAWN BY: CHECKED BY:

SCHEDULES

/11 2



			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	

	K	ITCHEN	EXHAU	ST HOOD S	CHEDI	JLE		
		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

		Al	R TERM	MINAL D	EVICE SC	HEDULE	
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

	LOUVER SCHEDULE													
					AIR	FREE AREA	DIMENSION	NET FREE AREA	PRESS.	NOTES				
EQUIP.	MFG' / MODEL NUMBER	TYPE	SERVICE	TYPE	FLOW	VELOCITY	$W \times H$	REQUIRED	DROP					
TAG					CFM	FT / MIN.	IN. X IN.	SQ. FT.	IN. W.G.					
L-1	GREENHECK ESD-635	STATIONARY	DOAS-1 & SF-1	INTAKE	980	800	26X18	1.20	0.10	1, 2				
L-2	GREENHECK ESD-635	STATIONARY	DOAS-2	INTAKE	300	592	18X14	0.47	0.05	1, 2				
L-3	GREENHECK ESD-635	STATIONARY	ELECTRICAL ROOM EF-1	INTAKE	180	747	14X12	0.24	0.08	1, 2				

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

		RO	OF EXHA	UST H	HOOD (SCHEDU	JLE		
					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

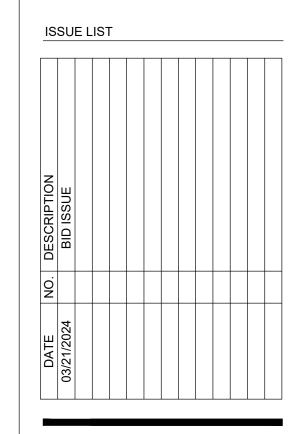
- 2. PROVIDE BIRD SCREEN
- 3. PROVIDE WITH BAROMETRIC RELIEF DAMPER



BID ISSUE







0070800.01

M. AZEEM

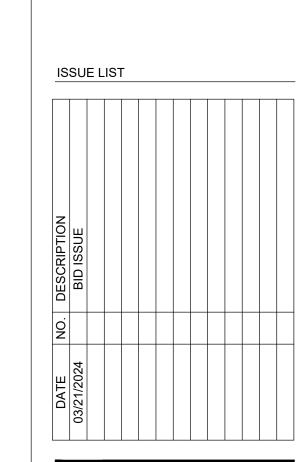
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CHECKED BY:

SCHEDULES

PROJECT NO: 0070800.01





PROJECT NO.:
PROJECT MGR.:
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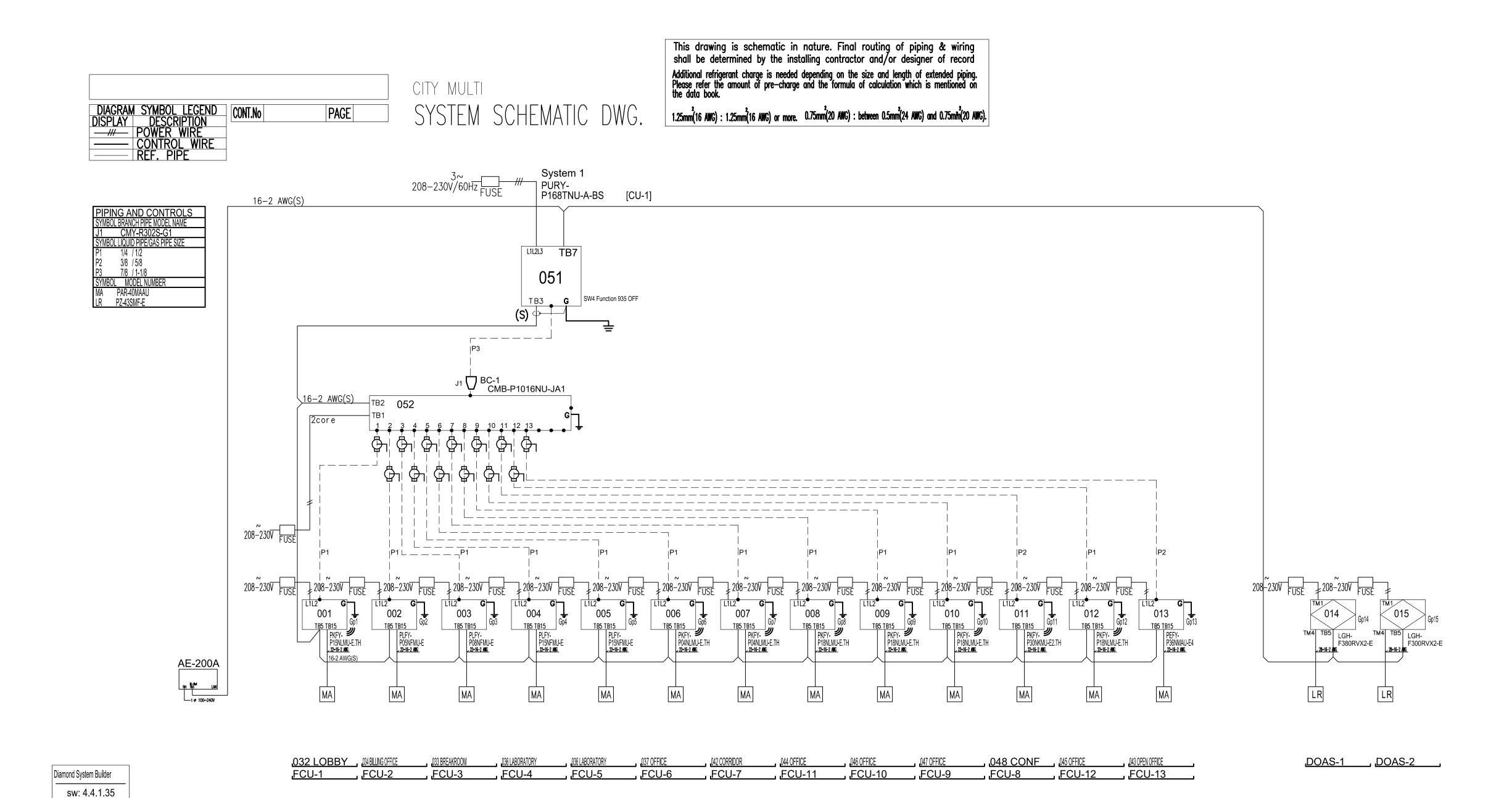
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SCHEDULES

M1.4

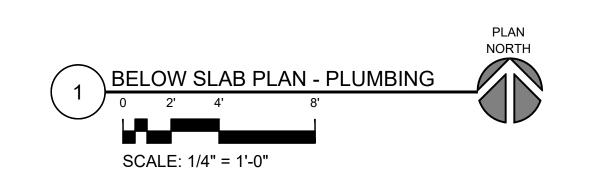


___ REMARKS

Comments:

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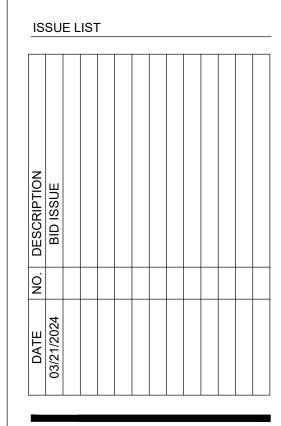


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P TRIBES - UTILITY BUILDI 3015 MISSION BEACH ROAD





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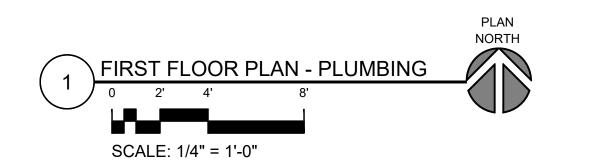
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BELOW SLAB PLAN

0070800.01

M. AZEEM

M2.0



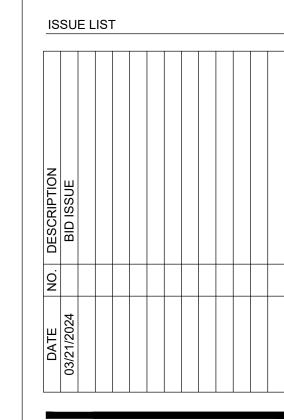


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MISSION BEACH ROAD





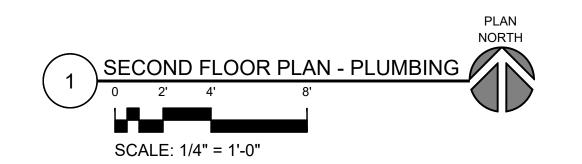
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FIRST FLOOR PLAN -PLUMBING

0070800.01

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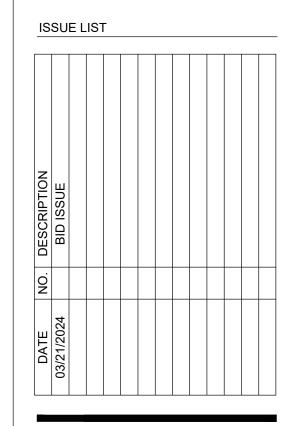
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ILALIP TRIBES - UTILITY BUILDII 3015 MISSION BEACH ROAD TULALIP, WA 98271





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PROJECT MGR.: M. AZEEM
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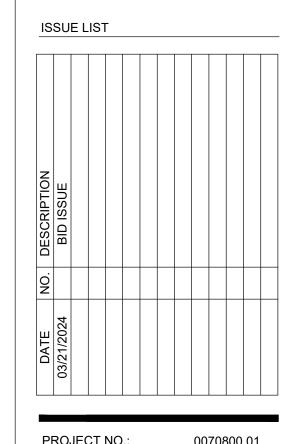
SECOND FLOOR
PLAN - PLUMBING

M2.2



ILALIP TRIBES - UTILITY BUILDII 3015 MISSION BEACH ROAD



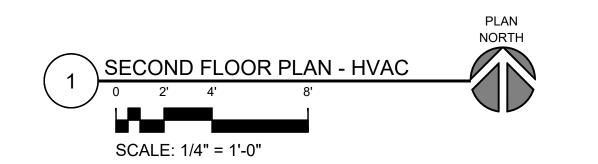


PROJECT NO.: 0070800.01
PROJECT MGR.: M. AZEEM
DRAWN BY:
CHECKED BY:

FIRST FLOOR PLAN
- HVAC

M3.0

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



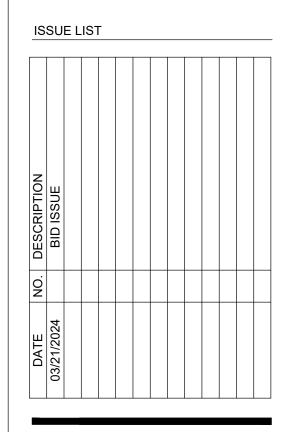


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BES - UTILITY BUILDIN



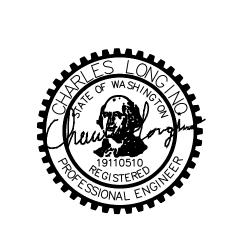


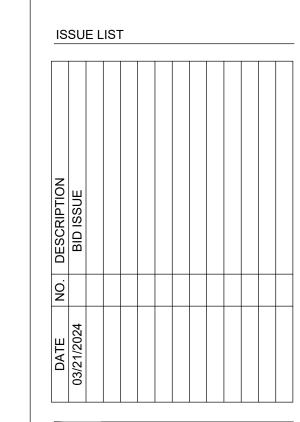
PROJECT NO.: 0070800.01
PROJECT MGR.: M. AZEEM
DRAWN BY:
CHECKED BY:

SECOND FLOOR PLAN - HVAC

M3.1

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





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PROJECT MGR.:
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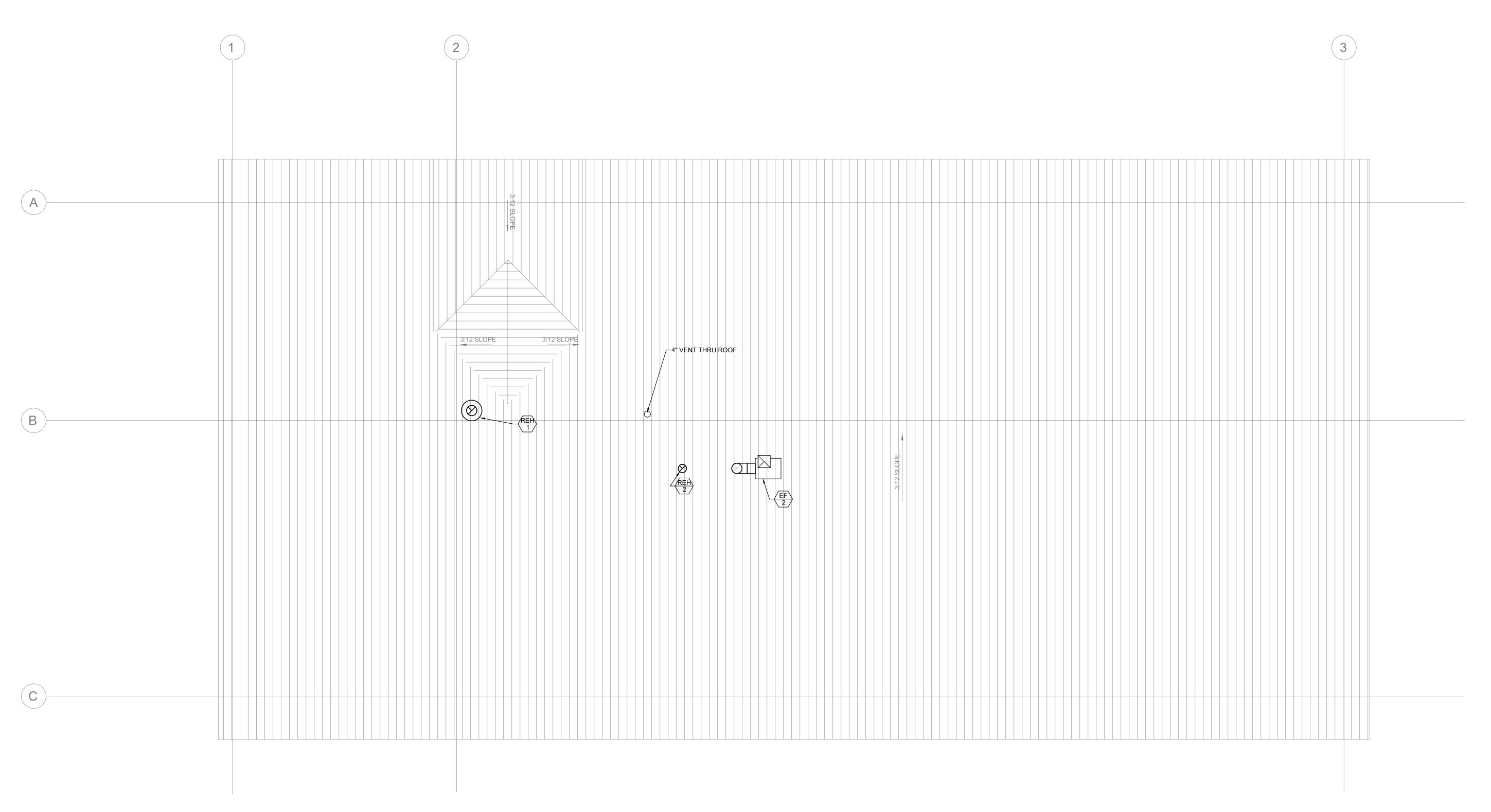
ROOF PLAN - HVAC

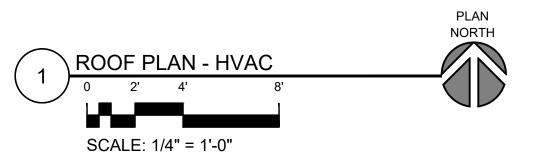
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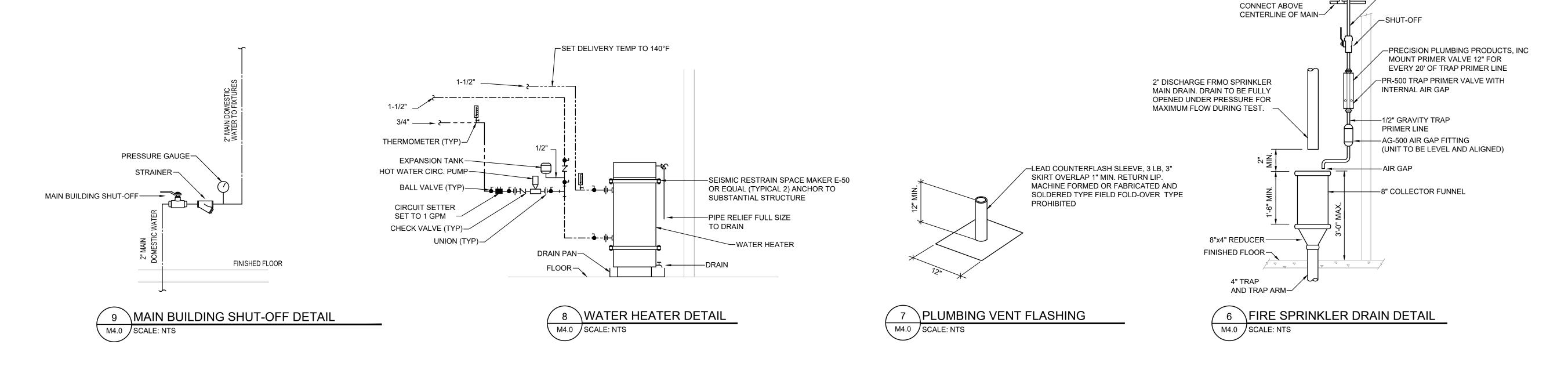
M. AZEEM

M3.2

CHECKED BY:



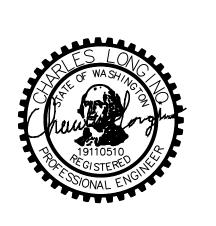


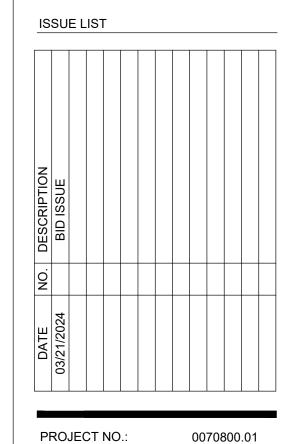




PROJECT NO: 0070800.01

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





M. AZEEM

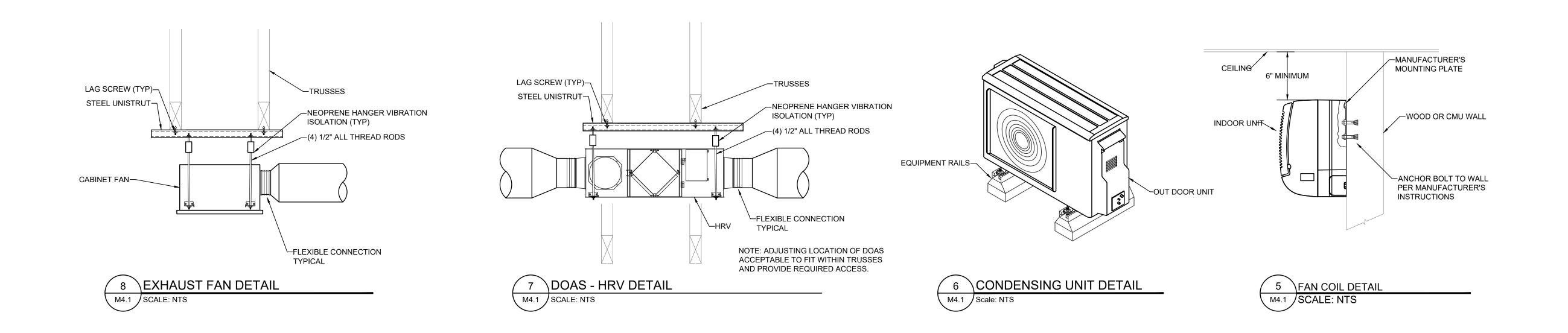
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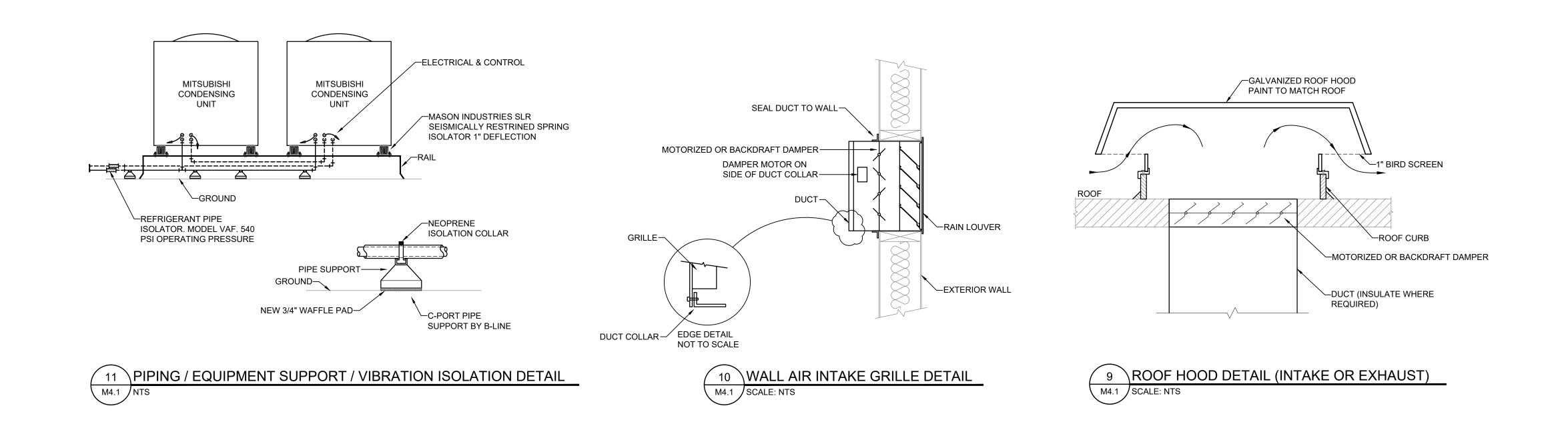
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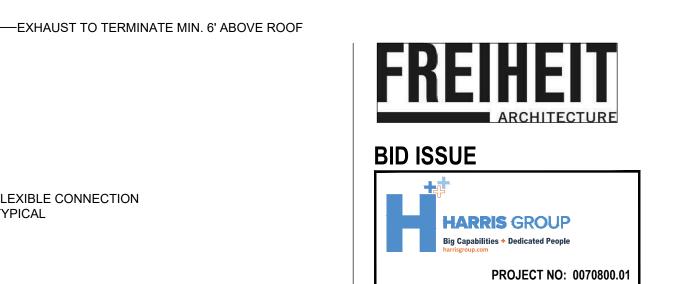
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M4.0

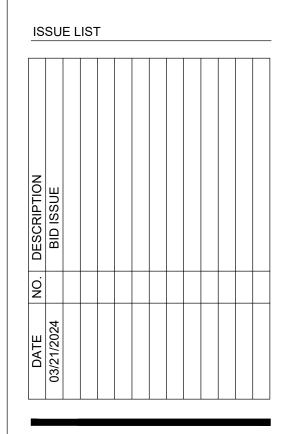






ILALIP TRIBES - UTILITY BUILDING 3015 MISSION BEACH ROAD TULALIP, WA 98271





PROJECT NO.: 0070800.01
PROJECT MGR.: M. AZEEM
DRAWN BY:
CHECKED BY:

M4.1

TULALIP TRIBES UTILITY BUILDING

3015 MISSION BEACH RD, TULALIP, WA 98271

GFCI RECEPTACLE

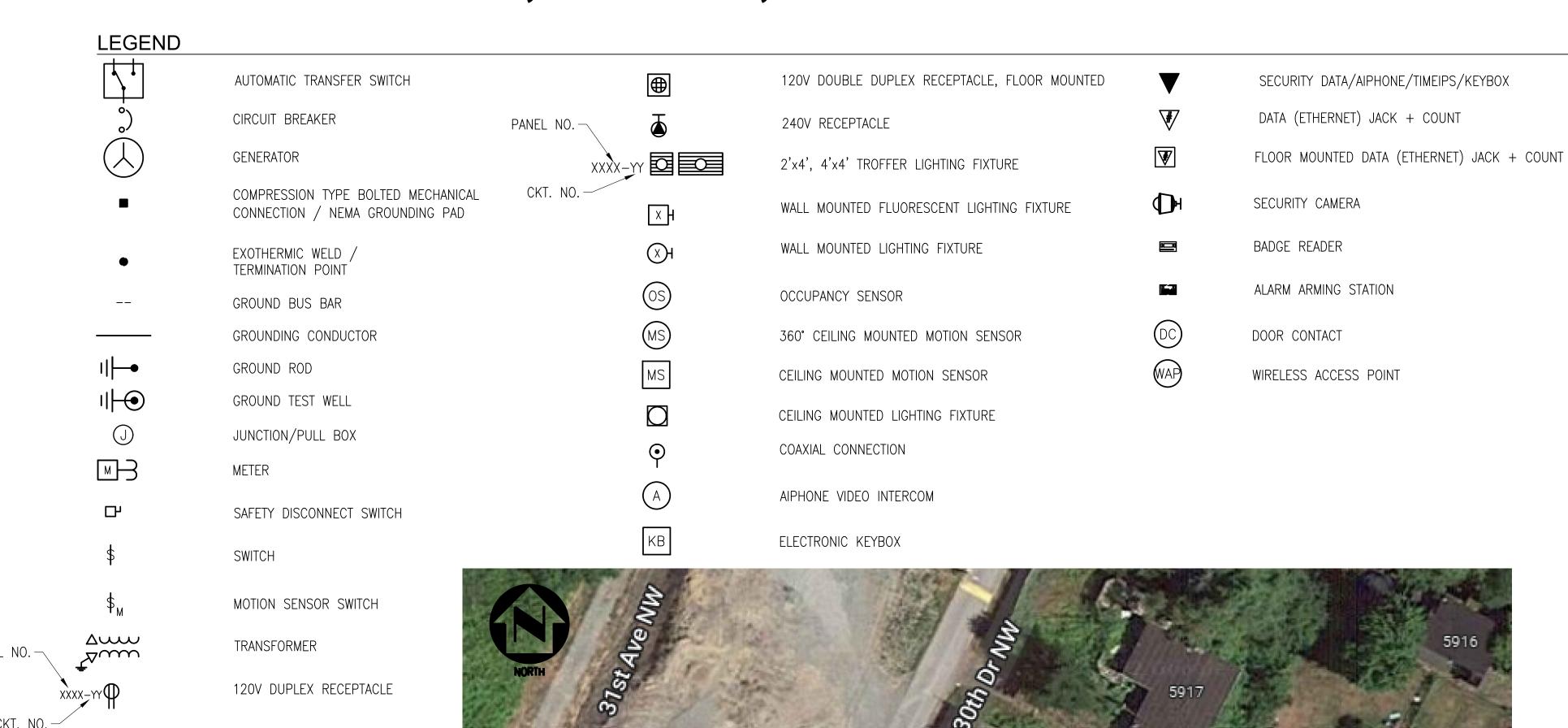
ELECTRICAL SCOPE OF WORK

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.
- 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
- REFER TO SPECIFICATIONS SHEET OR SPECIFICATIONS BOOKLET FOR MATERIAL SPECIFICATIONS AND CONTRACTOR 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 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



WEST POWER BLDG.

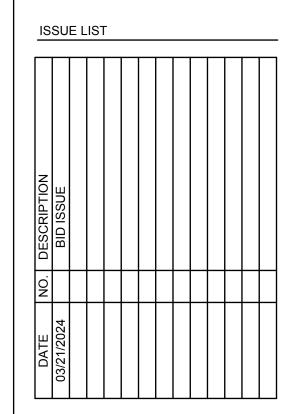


BID ISSUE



PROJECT NO: 0070800.0





PROJECT NO .: 0070800.01 PROJECT MGR. M. AZEEM DRAWN BY: R. PINLAC CHECKED BY: J. NORTON

ELECTRICAL COVER SHEET

E1.0

SITE MAP SCALE: N.T.S.

1-1/2"C,4#1AWG,#8G —

LTC 100A, 3ø, 4W 240Y/120V

SINGLE-LINE DIAGRAM SCALE: NO SCALE

LEGEND

GENERAL NOTES

1. ALL INSULATION TYPE THHN

2. REFER TO SHEET E3.3 FOR NEW

ELECTRICAL EQUIPMENT INFORMATION.

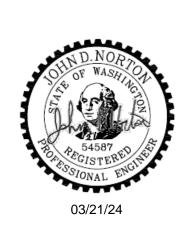
REFER TO SHEET E1.0 FOR PROJECT SYMBOLS AND NOTES.

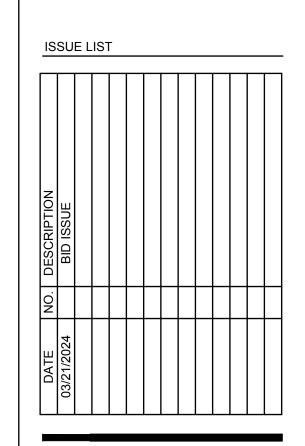
BID ISSUE



BUILDING

P TRIBES 3015 MISSION





PROJECT NO.: 0070800.01 PROJECT MGR. M. AZEEM DRAWN BY: R. PINLAC J. NORTON CHECKED BY:

ELECTRICAL SINGLE-LINE DIAGRAM

E2.0

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.

FENCE -

(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
- (12) KEYBOX DATA, TIMEIPS, AIPHONE DATA DROP AND
- ELECTRICAL DROPS WILL NEED TO BE IN RECESSED J-BOX AT 54" ABOVE FINISHED FLOOR.

(13) CONDUIT TRENCH. GENERATOR POWER. 30" BELOW GRADE.

- - CONDUIT ROUTING TO RECEPTACLES IS NOT SHOWN. CONTRACTOR SHALL USE BEST ROUTING PRACTICES TO AVOID OBSTRUCTIONS AND INTERFERENCE WITH OTHER EQUIPMENT.

CONDUIT ROUTING IS DIAGRAMMATIC. ELECTRICAL CONTRACTOR

COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL

SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT

CONDUCTOR AND CONDUIT SIZING SHALL BE AS PER NEC.

GENERAL NOTES

- 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
- GROUND GRID CONDUCTORS SHALL BE #4/O SOFT DRAWN BARE COPPER (SDBC). BONDING JUMPERS SHALL BE #2/0 SOFT DRAWN BARE COPPER (SDBC). GROUNDING ELECTRODE CONDUCTORS (GEC) FOR C2-M4-40G TRANSFORMER, AND DRY-TYPE TRANSFORMERS SHALL BE #4/0 SDBC.
- REFER TO DRAWING EX.X FOR GROUNDING SYSTEM DETAILS.
- 7. ALL GROUND RODS SHALL BE 3/4" x 10'-0" LONG COPPER CLAD STEEL.

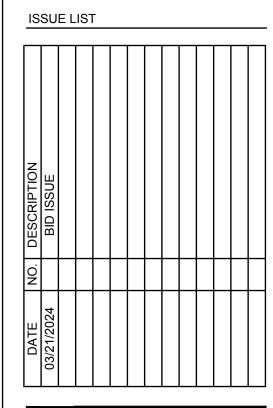
- ALL STEEL COLUMN GROUNDING SHALL BE WELDED (EXOTHERMIC). AT A MINIMUM, ALTERNATING BUILDING COLUMNS SHALL BE GROUNDED TO MAIN GROUND GRID.
- GROUND SYSTEMS SHALL NOT HAVE MORE THAN THE FOLLOWING GROUND RESISTANCE: EQUIPMENT RATED 500KVA AND LESS SHALL HAVE <10 OHMS. EQUIPMENT RATED 500 TO 1000KVA SHALL 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.
- 11. EQUIPMENT GROUNDING SHALL BE BOLTED CONNECTION FOR EASE OF REMOVAL.
- 12. ALL GROUNDING RISERS SHALL HAVE A 1" PVC CONDUIT SLEEVE WHEN PENETRATING CONCRETE FOUNDATIONS OR FINISHED FLOORS.

- 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 GROUND CABLE.
- 20. ALL RECEPTACLES WILL BE INSTALLED 18" AFF UNLESS OTHERWISE NOTED.
- 21. ALL EXTERIOR DOORS AND INTERIOR ACCESS CONTROLLED DOORS NEED DOOR CONTACT ROUTED TO TOP CORNER OF DOOR FRAME.









0070800.01

M. AZEEM

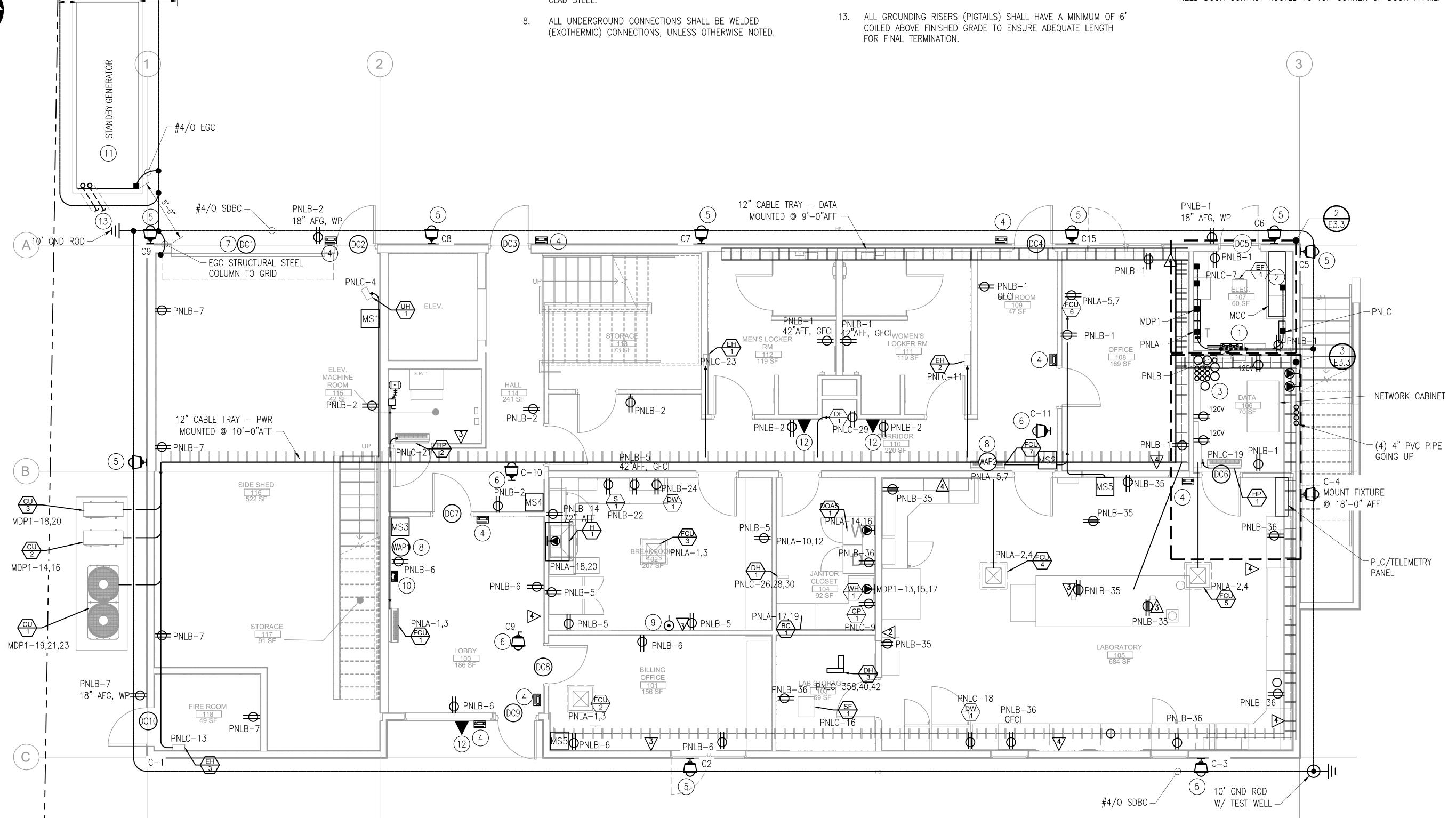
R. PINLAC

J. NORTON

PROJECT NO. PROJECT MGR. DRAWN BY: CHECKED BY

E3.0

ELECTRICAL FIRST FLOOR **POWER PLAN**



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

KEYED NOTES

DATA OUTLET.

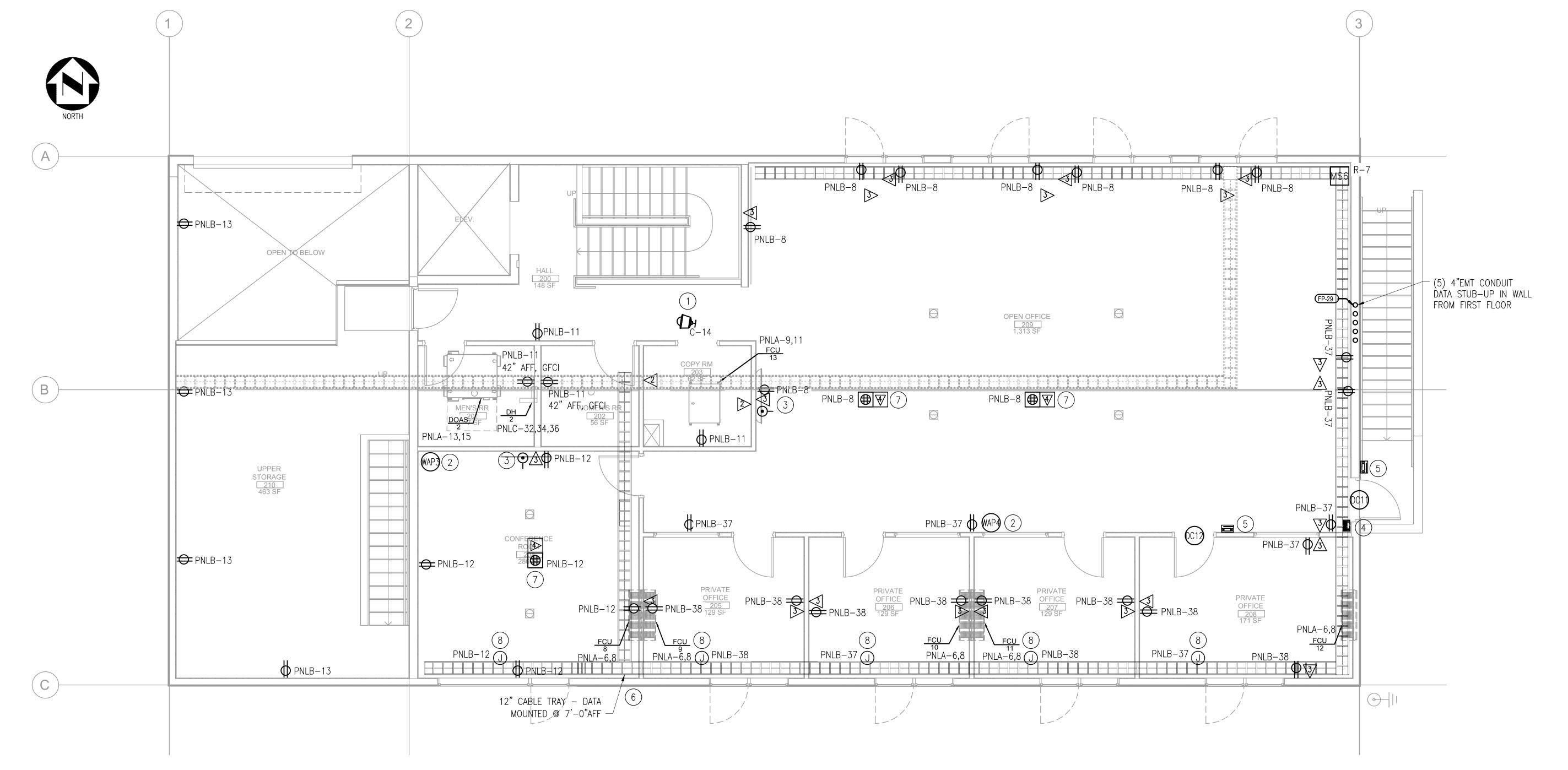
- 1) INTERIOR CAMERAS WILL BE CEILING MOUNTED WITH RECESSED SINGLE GANG J-BOX.
- 2 WIRELESS ACCESS POINTS (WAPS) WILL NEED DATA DROPS ROUTED TO J-BOX ON WALL -6" FROM FINISHED CEILING, BUT NO HIGHER THAN 12' AFF.
- THE DATA/COAX/ELECTRICAL OUTLETS SHOULD BE INSTALLED ON WALL +72" AFF.
- 4 ALARM ARMING 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

INSTALL JUNCTION BOX FOR POWER WINDOWS.

GENERAL NOTES

- 1. ALL CONDUIT ROUTING DIAGRAMMATIC. ELECTRICAL CONTRACTOR SHALL DETERMINE THE BEST ROUTING PATH AND CIRCUIT COMBINATIONS BASED ON FIELD CONDITIONS AND ELECTRICAL CODES
- 2. CONDUIT ROUTING TO RECEPTACLES IS NOT SHOWN. CONTRACTOR SHALL USE BEST ROUTING PRACTICES TO AVOID OBSTRUCTIONS AND INTERFERENCE WITH OTHER EQUIPMENT.
- 3. CONDUCTOR AND CONDUIT SIZING SHALL BE AS PER NEC.
- 4. 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.
- 5. ALL RECEPTACLES WILL BE INSTALLED 18" AFF UNLESS OTHERWISE NOTED.
- 6. ALL EXTERIOR DOORS AND INTERIOR ACCESS CONTROLLED DOORS NEED DOOR CONTACT ROUTED TO TOP CORNER OF DOOR FRAME.

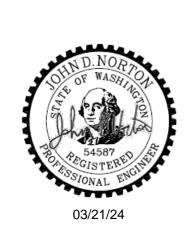


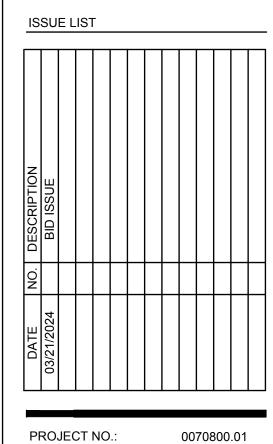


BID ISSUE



LALIP I RIBES - UTILITY BUILL 3015 MISSION BEACH ROAD TULALIP, WA 98271





PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

DJECT MGR.: M. AZEEM
AWN BY: R. PINLAC
ECKED BY: J. NORTON

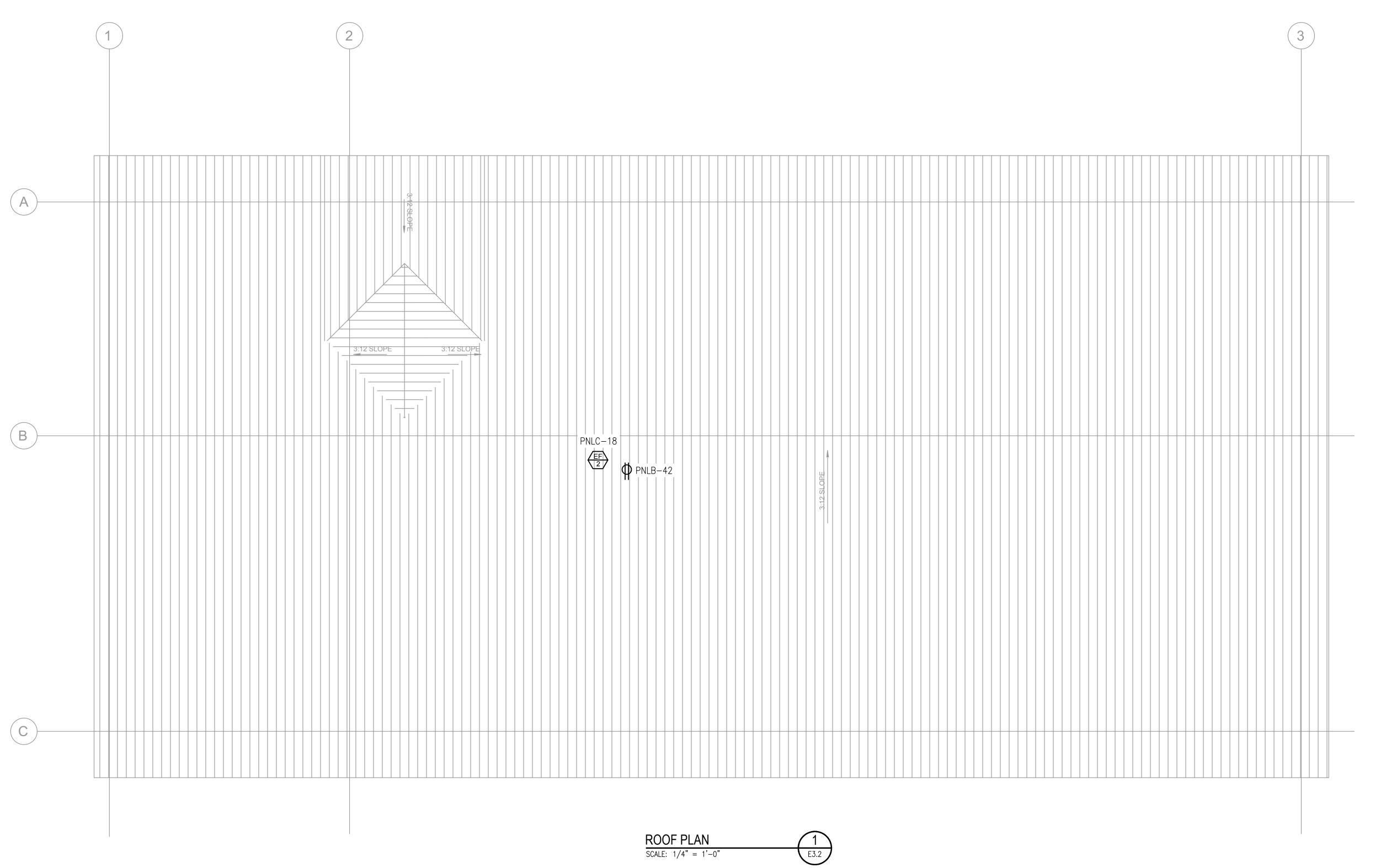
ELECTRICAL
SECOND FLOOR
POWER PLAN

E3.1

SECOND FLOOR PLAN

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

E3.1



GENERAL NOTES

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

FREIHEIT

BID ISSUE



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.

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.

2. CONDUCTOR AND CONDUIT SIZING SHALL BE AS

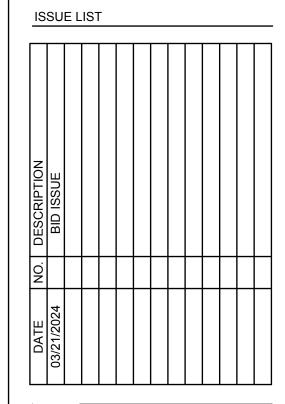
KEYED NOTES

PER NEC.

1 NOT USED.

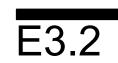
ALIP TRIBES - UTILITY BUILDIN 3015 MISSION BEACH ROAD TULALIP, WA 98271

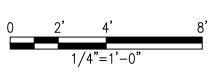


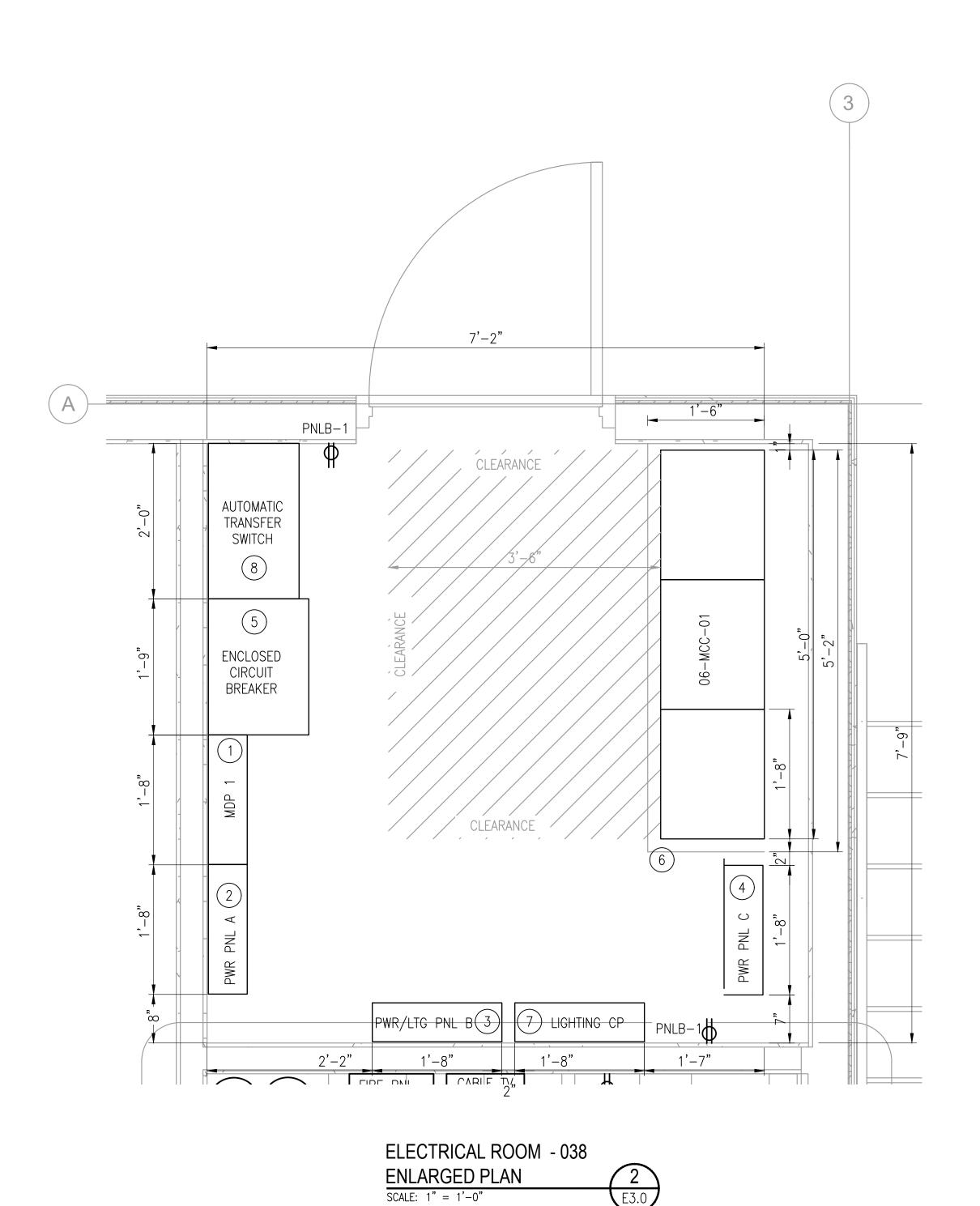


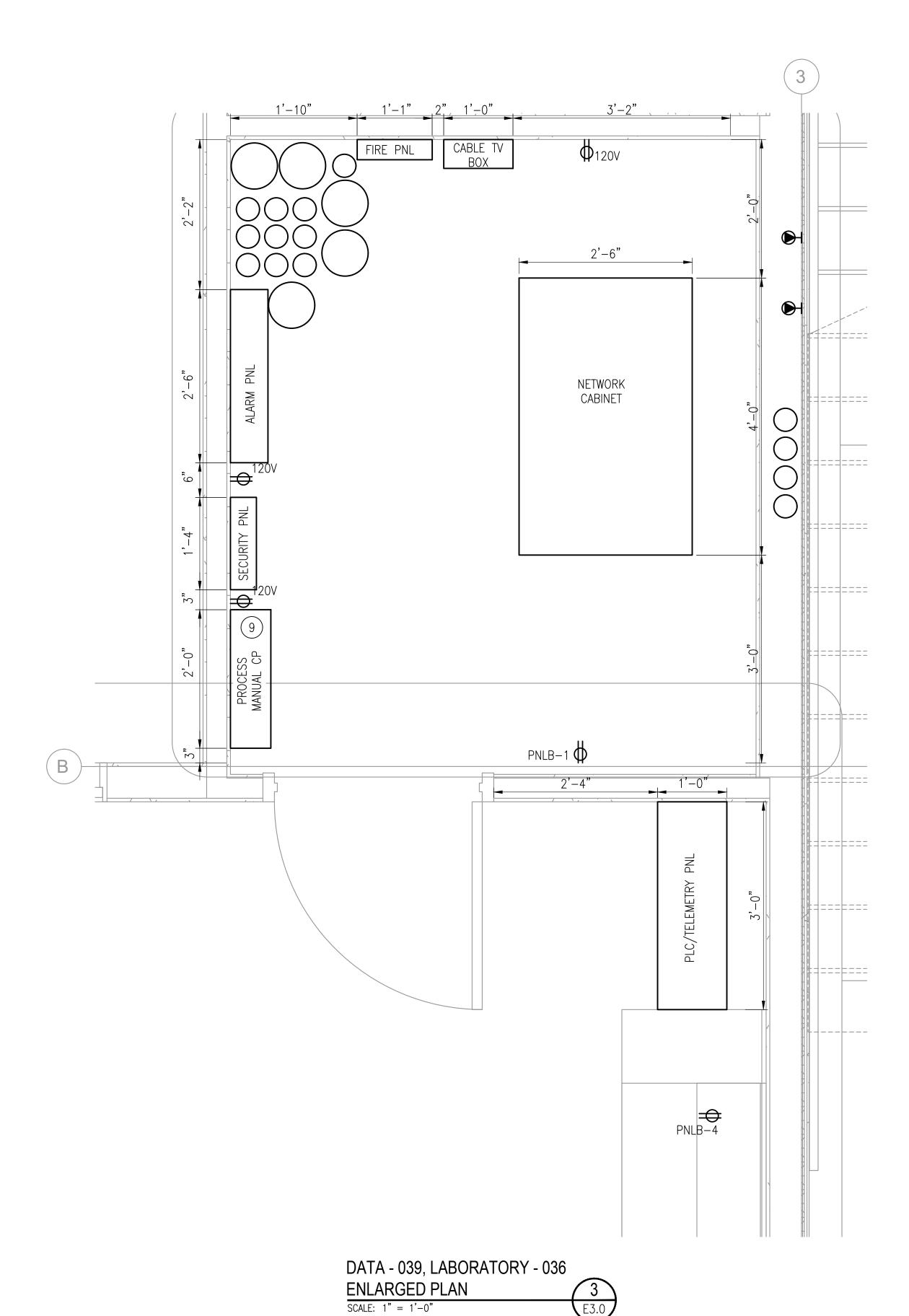
PROJECT NO.: 0070800.01
PROJECT MGR.: M. AZEEM
DRAWN BY: R. PINLAC
CHECKED BY: J. NORTON

ELECTRICAL ROOF
POWER PLAN









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

GENERAL NOTES

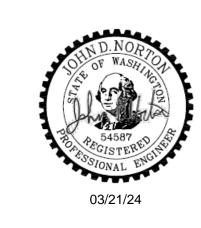
CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION. REARRANGE EQUIPMENT IN SPACE AS REQUIRED.

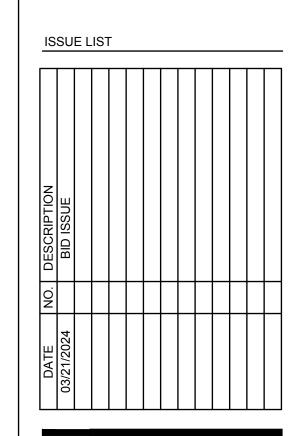
CONSTRUCTION NOTES

- 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
- 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
- 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.









PROJECT NO.: PROJECT MGR. DRAWN BY: CHECKED BY:

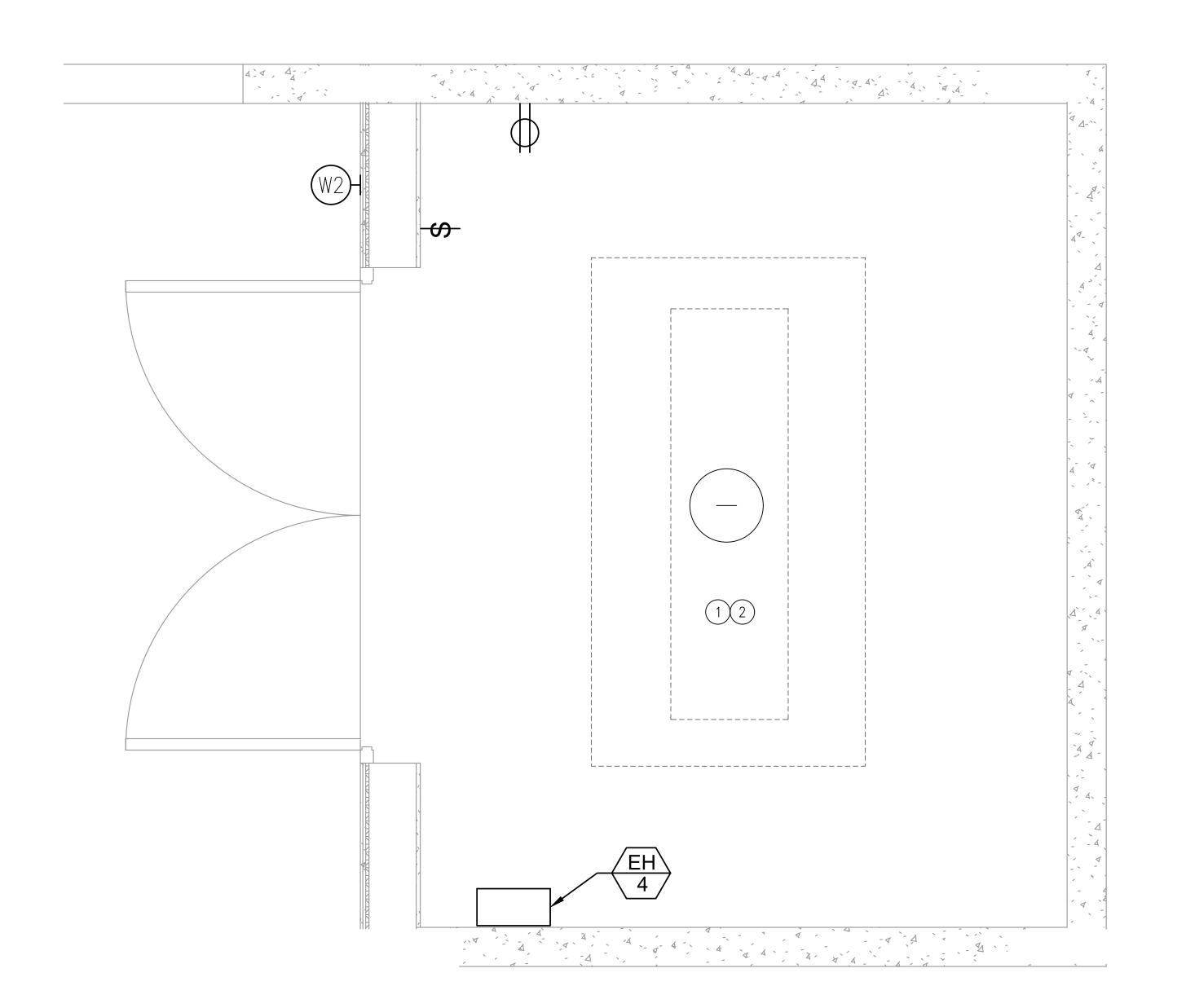
R. PINLAC J. NORTON

0070800.01

M. AZEEM

ELECTRICAL ROOM ENLARGED PLAN







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.

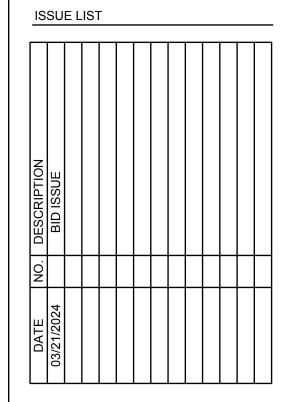
CONSTRUCTION NOTES

- 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.





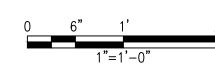




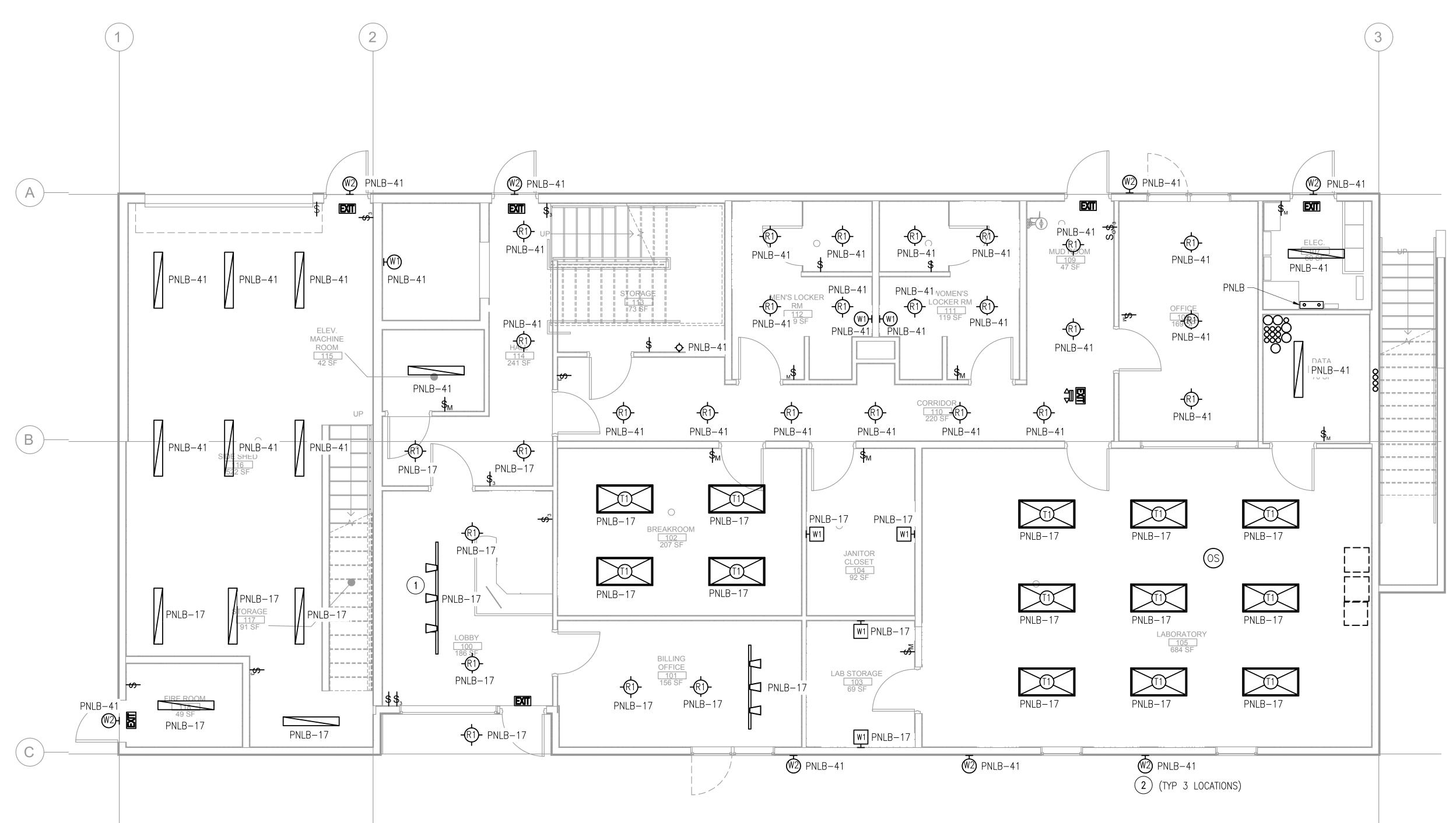
PROJECT NO.: 0070800.01 PROJECT MGR.: M. AZEEM DRAWN BY: R. PINLAC J. NORTON

ELECTRICAL PUMP ROOM - ENLARGED PLAN





					FIRS	ST FLO	OR LIGHT	ΓING FIXTURE SCHEDULE	
ID	DESCRIPTION	QTY	VOLTAGE	VA	MOUNTING	LUMENS	LED COLOR TEMP	MANUFACTURER/CAT. NO.	NOTES
W1H	WALL MOUNTED — LED VANITY FIXTURE	2	120-277 VAC	39	SURFACE/WALL	2400	3000K	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	_
P 1	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)	-
EXT	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
OS2	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	_	3000K	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.
- 8. 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

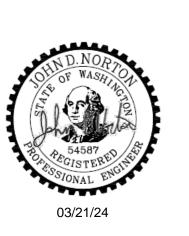
- 1 CONTRACTOR SHALL INSTALL RECESSED CAN LIGHT FIXTURES IN 1 1/2" CEMENT UNDERLAYMENT SLAB BETWEEN 1ST AND 2ND FLOOR.
- 2 FOR EXTERIOR LIGHTING FIXTURES ELEVATION HEIGHT REFER TO SHEET A4.00.

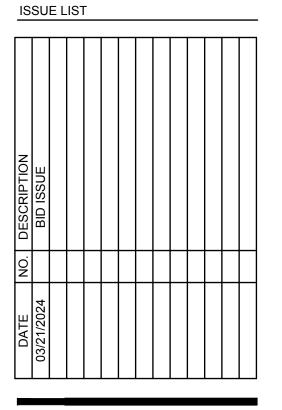


BID ISSUE



TRIBES - UTILITY BUILDING 315 MISSION BEACH ROAD THE ALID WAY 00274



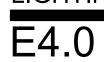


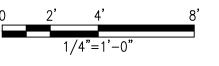
PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

T MGR.: M. AZEEM
BY: R. PINLAC
ED BY: J. NORTON

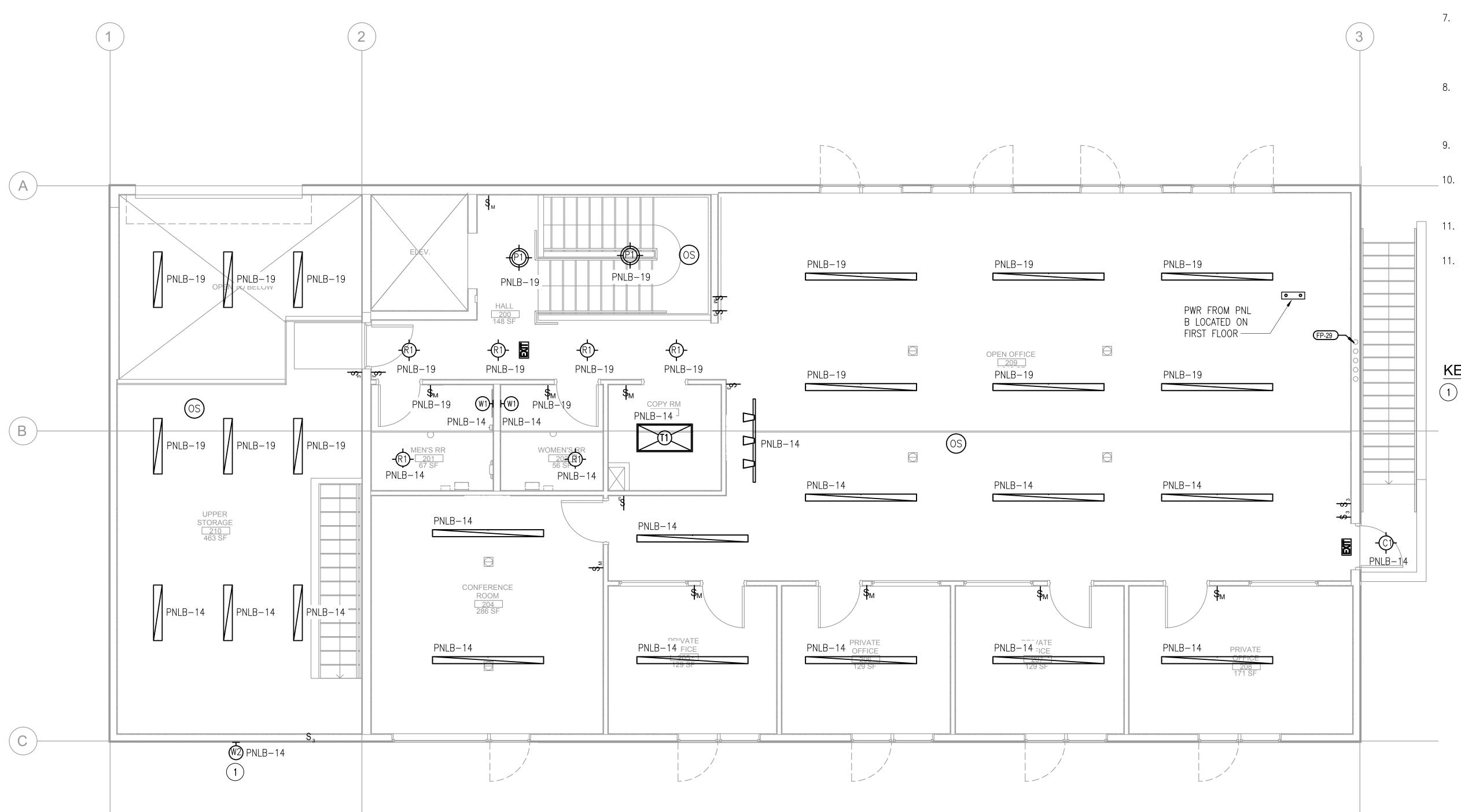
0070800.01

ELECTRICAL
FIRST FLOOR
LIGHTING PLAN





					SECC	ND FLC	OR LIGI	HTING 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	3500K	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



SECOND FLOOR LIGHTING PLAN

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.
- 8. 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

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

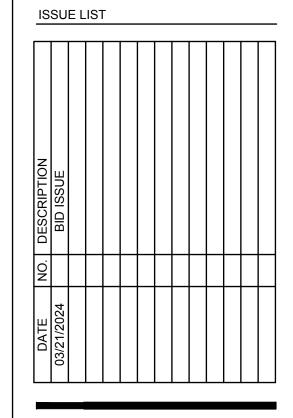


BID ISSUE



BUILDING TRIBE





PROJECT NO.: PROJECT MGR. DRAWN BY: CHECKED BY:

M. AZEEM R. PINLAC J. NORTON

0070800.01

ELECTRICAL SECOND FLOOR LIGHTING PLAN

E4.1

PANEL NAME:							MDP 1							
FLOOR	1		VOL	TAGE:	240	/	120			MA	IN BRI	EAKER:	800	
BUILDING:	3015		Р	HASE:								S ONLY:		
ROOM:	038			WIRE:	_							RFACE:	Х	
COLUMN:	•••			AMPS:			800	·MAII	N CB A	MPS		FLUSH:		
3323MIN.		SUI		AMPS:								ID BUS:	X	
MIN	I. SHOR											ID BUS:		
INCLUDE SPARE CAP Y/N:			ZOII IV	TINO.	0310				IOOL			AL BUS:	Х	
INCLUDE OF AIRE CALLS I / IV.	<u>'</u>									- 1	LUTTO	AL DOO.		
SERVES	LTG	RCPT	PWR	MOT	CB *	CKT	PH	CKT	CB *	LTG	RCPT	PWR	MOT	SERVES
100A PANEL A			10.1		100	1	Α	2	100			7.728	10.00	100A PANEL B
-			5.97	•		3	В	4				8.426		-
_			7.42	•	_	5	c	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	Α	20		•		3.95		-
-	·····		7.90		_	21	В	22	20			0.00		SPARE
-			7.90		_	23	c	24						SPARE
SPACE	***************************************					25	Α	26						SPACE
SPACE				•		27	В	28						SPACE
SPACE				***************************************	•••••••••••••••••••••••••••••••••••••••	29	c	30						SPACE
SPACE				***************************************	••••••	31	Α	32						SPACE
SPACE						33	В	34						SPACE
SPACE	***************************************			***************************************		35	C	36						SPACE
SPACE						37	Α	38						SPACE
SPACE	•	•••••		•		39	В	40		•••••				SPACE
SPACE	***************************************			•	•	41	_ c			***************************************		***************************************		SPACE
	NECTE) KVA	A:	7	2	B:	64		C:	6	7			0.7.02
0014	I VLOILI		/ \ .			<u> </u>	<u> </u>		<u> </u>		' 1	AMPS	KVA	
CONNECTE	D KVA					D.F.	DEMA	ND K	VA·			800.0		DESIGN (BASED ON SUPPLY)
LIGHTING LOAD:						1.00	0.0		37.11			466.1		CONNECTED
RECEPT. LOAD - FIRST 10 KVA:		-				1.00						466.1		DEMAND
RECEPT. LOAD - REMAINDER:						0.50								SPARE
POWER LOAD:						1.00				AVG				
MOTOR LOAD EXCEPT LARGEST:		-				1.00				KVA		AMPS	KVA	CONNECTED
LARGEST MOTOR:		-				1.25				0.1		1	0.1	
20% SPARE CAPACITY:		_				1.00				J. 1		1	0.1	No. 10 10 10 10 10 10 10 10 10 10 10 10 10
TOTAL CONNECTED LOAD (kVA):		-	TOT	AL DFI	MAND		193.8					1	0.1	
INSTRUCTIONS:											PHASE		5.1	
* - ALL BRANCH CIRCUIT BREAKE	RS ARF	1P20	UNI F	SS OTI	HERW	ISE SH	OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES											0%		106%	
NOTES:	J. 1010L	01			/ !! \						0%		95%	
* EXISTING MCC IN LAB BUILDING \	NAS 13°	3 K\/Δ	CONN	FCTF) UR 3	20Δ ΔΤ	240\/				0%		99%	
MCC FEEDS 2 BRUSH ROTOR MC								IFIC I		SAMO		UNKNO		110000
MOOT LEDO 2 BROOTH TOTOR WIC	7101101	/ UNI L	.0 10	17 VEH VC	J 1 U/\.	O I I ILI	VOI LO			J / NIVIO	SIVIO		VIV.	

MAIN DISTRIBUTION PANEL 'MDP 1' (2)

PANEL NAME:						P	ANEL E	3						
FLOOR	1		VOL	TAGE:	240	1	120			MA	IN BRI	EAKER:	100	
BUILDING:	3015			HASE:								S ONLY:		
ROOM:	038			WIRE:								RFACE:	X	
COLUMN:	000			AMPS:			100	·N/A II	N CB	AMPS		FLUSH:		
COLUMIN.		QI II	PPLY A				100	.IVI/\II	1007			ID BUS:	Х	
N AIN									10.01				^	
	I. SHOR	ICIRC	JUII RA	ATING.	NCO				ISOL/			ID BUS:	V	
INCLUDE SPARE CAP Y/N:	Υ									IN	EUIRA	AL BUS:	X	
CEDVEC	LTC	DODT	PWR	NAOT	00 *	CIAT	DU	OVT	0D *	LTC	DODT	PWR	MOT	SERVES
SERVES	LTG			MOT	CB*	CKT	PH	CKT		LIG		PVVR	MOT	
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	С	12	20		0.72			RECEPT CONFERENCE RM (2ND
RECEPTACLE STORAGE (2ND)		0.72					Α	14	20	0.89				LIGHTING B (2ND)
'SPARE (208V Ckts ONLY)						15	В	16						-
LIGHTING B (1ST)	1.05					17	С	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	c		20					SPARE RECEP IN ELEVATOR PIT
ELEVATOR CAB/LIGHT/SIGNAL	0.12		1.0		20	31	Α	32						SPACE S1 IN-SINK ERATOR
'SPARE (208V Ckts ONLY)	0.12				20	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		0.9			20	39	В	40	20		1.44			SPACE
	1.00				20				20		0.18			RECEPT (ROOF)
LIGHTING A (1ST)						41	С			4				RECEPT (ROOF)
CONI	NECTE	J KVA	A:		9	B:	0		C:	1	1	41400	10.74	
												AMPS		
CONNECTE						D.F.	DEMA		VA:			100.0		DESIGN (BASED ON SUPPLY)
LIGHTING LOAD:	4.1					1.00	4.1							CONNECTED
RECEPT. LOAD - FIRST 10 KVA:	10.0					1.00								DEMAND
RECEPT. LOAD - REMAINDER:	3.1					0.50	1.6					45.76	19.02	SPARE
POWER LOAD:	6.68					1.00	6.68			AVG				
MOTOR LOAD EXCEPT LARGEST:	0.0					1.00	0.0			KVA		AMPS	KVA	CONNECTED
LARGEST MOTOR:	0.0					1.25	0.0			0.0		0	0.0	PHASE A
20% SPARE CAPACITY:	0.0					1.00	0.0					0	0.0	PHASE B
TOTAL CONNECTED LOAD (kVA):	24.18		TOT	AL DEI	MAND	LOAD:	22.58					0	0.0	PHASE C
INSTRUCTIONS:											PHASE	.		
* - ALL BRANCH CIRCUIT BREAKE	RS ARE	1P20	UNLE	SS OT	HERW	ISE SH	OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES											0%		136%	
NOTES:											0%		0%	
											0%		164%	
											370		10-7/0	110000
										1				

240/120V PANEL 'B' (2)

PANEL NAME:						P	ANEL	Δ						
FLOOR	1		VOL	TAGE:	240	/	120			MA	IN BRE	EAKER:	100	
BUILDING:	3015		PI	HASE:	3						LUGS	ONLY:		
ROOM:	038			WIRE:	4						SUF	RFACE:	X	
COLUMN:			BUS A	MPS:	100		100	:MAI	N CB A	AMPS		FLUSH:		
		SUI	PPLYA	MPS:	100					G	ROUN	ID BUS:	Х	
MIN	. SHOR	TCIRC	UITRA	TING:	65K				ISOLA	TED G	ROUN	ID BUS:		
INCLUDE SPARE CAP Y/N:	Υ									N	EUTR/	AL BUS:	Х	
SERVES	LTG	RCPT	PWR	MOT	CB*	CKT	PH	CKT	CB *	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)
1,1001,1002,0100(101)		••••••	0.04			3	В	4		•	•	0.03		-
FCU-6 & FCU-7 (1ST)			0.02		20	5	C	6	20			0.14		FCU-8, 9, 10, 11, & FCU-12 (2ND)
(101)			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)
23 13 17 11 23 12 31411 (2143)			0.11			11	С					0.17		-
DOAS-2 VENTILATOR (2ND)			0.11		20	13	Α	14	20			3		DRYER (1ST)
5 5. (5 E VEITIL/(10)((2)(b))			0.12			15	В	16				3	***************************************	-
BC-1 BRANCH CKT HEAT RECOV.			0.12		20	17	С	18	45			4.2		RANGE (1ST)
-			0.17			19	Α	20	-			4.2		-
ELEVATOR MOTOR (10HP)		•	2.5		30	21	В	22	20	•••••		7.2	·····	SPARE
-			2.5		-	23	C	24						SPARE
RECEPT STORAGE (2ND)		0.72	2.5		20	25	Α	26	20	•		1.56	····	H-1 RANGE HOOD & MICROWAV
SPARE		0.72			20	27	В	28	20	•		1.50	·····	SPARE
LIGHTING B (2ND)	0.89	•			20	29	С	30	20		•	1.75		S-1 IN-SINK ERATOR, HW DISPET
LIGHT IN ELEVATOR PIT	0.03				20	31	Α	32	20			1.75		SPARE
SPACE	0.1				-	33	В	34						SPACE
RECEPT IN ELEVATOR PIT		0.18			20	35	С	36	_					SPACE
SPACE		0.10			_	37	Α	38	_					SPACE
SPACE						39	В	40						SPACE
SPACE						41	С	·						SPACE
	NECTE		A:	1	0	B:			C:	1	0			SFACE
CONIN	NECIEL	JAVA	Α.		U	D.	6		<u> </u>		U	AMDO	IZ\	
CONNECTE	D 1////					ьг	DEMA		\/^.			AMPS	KVA	DECICN (BASED ON SUBDIVO
<u>CONNECTE</u> LIGHTING LOAD:	1.0					<u>D.F.</u>	DEMA	1	VA.			100.0 62.4		DESIGN (BASED ON SUPPLY) CONNECTED
	0.9						1.0 0.9							
RECEPT. LOAD - FIRST 10 KVA: RECEPT. LOAD - REMAINDER:	0.9					1.00 0.50		_				62.4 37.6		DEMAND
36 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										A)/C		37.0	13.6	SPARE
POWER LOAD:	24.0					1.00				AVG		A N 4 D C	IZ\	CONNECTED
MOTOR LOAD EXCEPT LARGEST:	0.0					1.00		_		KVA		AMPS		CONNECTED
LARGEST MOTOR:	0.0					1.25				0.0		0	0.0	
20% SPARE CAPACITY:	0.0		TOT	U DE	MANID	1.00	-					0	0.0	186 150 150 150 150 150 150 150 150 150 150
TOTAL CONNECTED LOAD (kVA):	25.9		101/	AL DEI	VIAND	LOAD:	25.9					0	0.0	PHASE C
INSTRUCTIONS:	00 4 0 0	4000		30 OT		//OF 611	O) 6 /5 :			-	PHASE	-		DUAGE DALANCE
* - ALL BRANCH CIRCUIT BREAKER							OVVN				LOAD		44000	PHASE BALANCE
[-DENOTES ADDITIONAL POLES (J- MUL	. II-POL	LE CIR	CUITB	KEAK	LRS					0%		116%	
NOTEC:											0%		68%	PHASE B
NOTES:					-				+		0%		116%	

240/120V PANEL 'A' (2)

PANEL NAME:						P	ANEL (
FLOOR	1		VOL	TAGE:	240	/	120			MA	AIN BRI	EAKER:	100	
BUILDING:	3015		PI	HASE:	3						LUG	ONLY:		
ROOM:	038			WIRE:	4						SUI	RFACE:	Х	
COLUMN:			BUS A	MPS:	100		100	:MAI	N CB /	AMPS		FLUSH:		
0 0 2 0 111111		SUF	PLY									ID BUS:	Х	
MIN	. SHOR								ISOL A			ID BUS:		
INCLUDE SPARE CAP Y/N:	Y	1 0 11 (0		(11110.	0011				ICCL			AL BUS:	Х	
													- / (
SERVES	LTG	RCPT	PWR	MOT	CB*	CKT	PH	CKT	CB *	LTG	RCPT	PWR	MOT	SERVES
SECURITY EQUIPMENT					20	1	Α	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	_ c		20			1.73		LAB RM TSS OVEN (14.4A)
EF-1 EXHAUST FAN (1ST)			0.05		20	7	Α	8	20			0.74		LAB RM INCUBATOR FRIDGE (6.2
LIGHTING B (1ST)	1.05		0.00		20	9	В	10	20			0.74		EF-2 EXHAUST FAN (ROOF)
EH-2 ELECTRIC HEATER (1ST)	1.00		0.25		20	11	С	12	20			1.2		LAB RM COLIFORM BATH
					20	13			20			1.2	0 0F	
EH-3 ELECTRIC HEATER (1ST)			0.25				A	14				0.50	0.25	LAB RM VACUUM PUMP (1/3HP)
HP-2 HEAT PUMP (1ST)			0.42		20	15	В	16	20			0.50		SF-1 SUPPLY FAN (1ST)
FIRE ALARM PANEL			0.40		20	17	C	18	20			1.92		DW-1 LAB RM DISHWASHER (16
HP-1 HEAT PUMP (1ST)			0.42		20	19	Α	20	_			2.5		-
SPARE (208V Ckts ONLY)						21	В	22	-					-
EH-1 ELECTRIC HEATER (1ST)			0.25		20	23	С	24	20			1.4		LAB RM AUTOCLAVE (12A)
SPACE					20	25	Α	26	20			2		DH-1 DUCT HEATER (1ST)
SPARE (208V Ckts ONLY)					20	27	В	28	_			1		-
DF-1 WATER COOLER (1ST)			0.37		20	29	C	30	20					SPARE
PRESSURE WASHER ROOM	0.1		1.5		20	31	Α	32	20			2		DH-2 DUCT HEATER (2ND)
SPACE						33	В	34	-			1		-
SPACE						35	С	36	_				***************************************	-
SPACE						37	Α	38	20			2		DH-3 DUCT HEATER (1ST)
SPACE		***************************************		***************************************	•	39	В	40	_	***************************************		2	***************************************	-
SPACE		***************************************		***************************************	***************************************	41	С	42	_	***************************************	•	2	***************************************	-
	NECTE	KVA	A:	1	3	B:	9		C:	(9			
												AMPS	KVA	
CONNECTE	D KVA:					D.F.	DEMA	ND K	VA:			100.0		DESIGN (BASED ON SUPPLY)
LIGHTING LOAD:	1.2					1.00	1.2	1				73.0		CONNECTED
RECEPT. LOAD - FIRST 10 KVA:	0.0					1.00						73.0		DEMAND
RECEPT. LOAD - REMAINDER:	0.0					0.50		_				26.5		SPARE
										A\/C		20.5	11.0	SPAIL
POWER LOAD:	28.9					1.00				AVG		AMDO	K//A	CONNECTED
MOTOR LOAD EXCEPT LARGEST:	0.3					1.00				KVA		AMPS		CONNECTED
LARGEST MOTOR:	0.3					1.25				0.0		0	0.0	
20% SPARE CAPACITY:	0.0		76-	A 1		1.00						0	0.0	
TOTAL CONNECTED LOAD (kVA):	30.6		IOT	AL DEI	MAND	LOAD:	30.6					0	0.0	PHASE C
NSTRUCTIONS:											PHASE	:		
* - ALL BRANCH CIRCUIT BREAKE							OWN				LOAD			PHASE BALANCE
[-DENOTES ADDITIONAL POLES	OF MUL	TI-POL	E CIR	CUIT B	REAK	ERS					0%		125%	
NOTES:											0%		86%	PHASE B
											0%		89%	PHASE C
										_				

240/120V PANEL 'C' 2

PANEL SCHEDULES

SCALE: NO SCALE

LEGEND

NOT USED





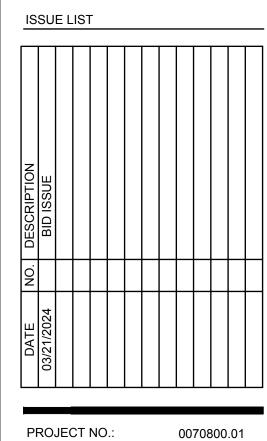
KEYED NOTES

GENERAL NOTES

1. NOT USED.

- 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.





PROJECT NO.: PROJECT MGR. M. AZEEM DRAWN BY: R. PINLAC J. NORTON CHECKED BY:

ELECTRICAL
PANEL SCHEDULES

E5.0

		EXISTING MCC SCHEDU	JLE (06	MCC 01)	(1)	
Section	Cell	Destination	Poles	Plug Rating	Cable size	Remarks
1F	G	MFR Influent Fine Screen Control Panel	3	20A	(4) # 12 AWG	
1F	J	Emergency Power Panel 240/120V, 3P 06 BKR 01	3	100A	n/a	
2F	С	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	М	Clarifier No. 2 Motor 03 MS 02	3	7A	(4) #12 AWG	0.5HP 2
3F	С	Lighting Panel 240/120V, 3P 06 BKR 02	3	200A	n/a	
3F	Е	Air Gap Panel 06 BKR 01	3	100A	(4) # 2 AWG	
3F	К	Panel Board 240/120V, 3P, 100A, 30CKT 06 PB 03	3		n/a	Internal panel
		on note on this drawing neck consultant all cable sizes as per cable routing at site.				

EXISTING MCC SCHEDULE

SCALE: NO SCALE

<u>LEGEND</u>

NOT USED

1. NOT USED.



BID ISSUE

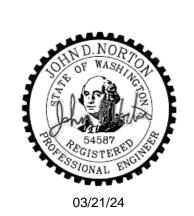


KEYED NOTES

GENERAL NOTES

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

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



DESCRIPTION	BID ISSUE						
NO.							
DATE	03/21/2024						

0070800.01

M. AZEEM

R. PINLAC

PROJECT NO.: PROJECT MGR.: DRAWN BY: J. NORTON CHECKED BY:

EXISTING MCC SCHEDULE

E5.1