



Submission by:

**Region 6
Ventures, LLC**

5455 46th Ave. SW
SEATTLE, WA 98136

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As two Seattleites we saw an opportunity to create a unique dwelling unit that addresses the modern living experience, is environmentally sustainable, fits with the Pacific Northwest aesthetic and helps to densify the urban core.

In response, we created the
Region 6 Shelter.

Project Team & Key Information



DESIGN + ARCHITECT

Owner:

Region 6 Ventures
5455 46th Ave. SW
SEATTLE, WA 98136

KAINE ROBERTSON
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BRENDON LEHMAN
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Architect:

goCstudio
321 3RD AVE S. SUITE 201
SEATTLE, WA 98104

<https://gocstudio.com/>

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AIMEE O'CARROLL
aimee@gocstudio.com

ENGINEERING

Structural:

KB Architectural
106 CHURCH ST, SUITE 4
ROSEVILLE, CA 95678

JEREMY KRAMP
jeremy@kbarchitectural.com

Mechanical:

SOLARC Energy Group
1158 HIGH ST
EUGENE, OR 97401

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Electrical:

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1158 HIGH ST
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JIM KRUMSICK
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APPLICABLE CODES AND REGULATIONS

Building: 2015 International Residential Code

Mechanical : 2015 International Mechanical Code

Electrical: 2017 National Electrical Code

Plumbing: 2015 WA State Uniform Plumbing Code

Energy: 2015 WA State Residential Energy Code

Fire: 2015 International Fire Code

Project Description



Region 6 developed a minimalist cabin that provides a unique, sustainable place for respite.

The goals for the project:

1. To be minimally invasive to the environment
2. To foster a connection with nature
3. To provide a secure and comfortable place to rest

In order to meet these objectives, Region 6 commissioned award winning architect goCstudio. goC designed a custom exo-skeletal structure with mechanical jacks that enable portability and adjustments for uneven terrain without the need for a traditional foundation.

The unit 'blossoms' as sliding shutters reveal large glass windows that comprise 60% percent of the walls allowing natural light to flood in.

A large shower stall, cozy sleeping area and galley kitchen allow for the tasks of modern living to be completed with ease and convenience.

The dark, muted exterior tones reflect the natural landscape and are intended to blend into the collage of Evergreens that is the Pacific Northwest.

Project Narrative



We have designed a home that is efficient, well constructed and environmentally conscious at a price point that is all inclusive.

We use modular construction techniques and natural materials to minimize our carbon footprint. Integrated monitoring systems are used to regulate water and energy use. Optional features such as solar energy capture, water harvesting, recycling and reuse, along with smart systems and upgraded appliances, create a living experience that is both comfortable and environmentally sustainable.

The structure was designed to connect people with their natural environment while offering safety, security and peace of mind. The wraparound upper clearstory provides abundant natural light throughout the day and movable shutters create privacy at night. The small footprint allows flexibility with placement and relation to other structures already onsite.

The homes furniture and internal components are built-in. These include the sleeping and sitting area, kitchen, cabinetry and appliances, along with ample and accessible storage.

The structure is designed to be easily and quickly constructed by 2 people in a 4-6 week time period. We use standard, off-the-shelf building material for the majority of the structure. The custom exoskeleton and leveling jacks are made from steel and can be manufactured on-demand.

Setup and installation of the unit can be accomplished in 3-5 days. With a level site the structure is offloaded from a flatbed truck, positioned via a crane and dropped into place. The utilities are connected through a single entry shaft. With minimal testing, the unit is ready to be occupied in a matter of hours.

Our unit can be built offsite, requires minimal site work, employs a non-traditional foundation and anchoring system, and includes all of the essentials for everyday living. Our unit is the perfect option for individuals wishing to include an additional housing option on their single family residential lot.

Unique Features



- Uses non-traditional foundation system. Structure sits on feet with building anchored to the ground or feet sit on pilings.
- Modular and moveable via customized jack system that allows for ease of loading onto a flatbed truck
- High degree of privacy and security with moveable shutters
- Ample amounts of natural light
- Built to withstand temperatures ranging from -25 °F to 120 °F
- Innovative construction with steel structural exoskeleton
- Quick construction timeline (est. 4-6 weeks)
- Flexible build options (offsite or onsite)
- Pacific Northwest-inspired design
- Use of non-traditional (European) appliances and hardware throughout
- Connects to water, sewer and electric through a single entry shaft
- External rinsing system
- All custom built-in cabinetry - kitchen, bed, storage, and bathroom

Construction Costs



		Built Offsite	Built Onsite
	Description	100% of unit is manufactured off-site and is transported to location via a flatbed truck.	100% of the building material is delivered to the site and the unit is built onsite. The steel frame is manufactured off site and transported in.
	Pros	Most cost effective 6-8 week build time (estimated) Less distribution to neighborhood	Allows for higher degree of customization Owner is able to be more involved in the build process Least amount of risk for possible damage during transport
	Cons	Minor risk for possible damage during transport	More expensive Longer build time with dependency on contractor availability Greater disruption to neighborhood
R6 Cabin - Standard		\$150,000	\$200,000
Delivery, Setup & Installation		\$8,000	\$2,000
Construction materials buffer	10.00%	\$15,000	\$20,000
	Subtotal	\$173,000	\$222,000
Seattle Tax Rate (10.1%)		\$17,473	\$22,422
	Total	\$190,473	\$244,422

Available Upgrades Range

\$1,000 - 50,000

Site Costs

At owners expense: may include: site leveling, extension of utilities, tree removal, leveling, etc.

Available Upgrades



- Window Upgrades
 - NanaWall - folding glass three panel window wall entry
- External fire pit
- Additional decking, stairs and railing (as necessary)
- Smart home systems - works with Apple HomeKit, Google Home and Amazon Alexa
 - Eero Wireless
 - Arlo 4K Security Cameras
 - Electronic Locks
 - Lutron Light Switches
 - Nest Thermostat
 - Nest Smoke & Carbon Monoxide Alarm
- Appliance upgrades
 - Fisher & Paykel Induction Cooktop, 12", 2 Zones with SmartZone
 - Fisher & Paykel Integrated CoolDrawer Multi-temperature Drawer Refrigerator
- Mitsubishi Electric Mini-Split Heat & Air Conditioning
- Orbital Oas Recirculating Shower System
- Off-Grid Features
 - Roof mount solar panel system
 - Battery for additional electricity storage and multi-day usage
- Rainwater collection for use with toilet
- Water filtration system

Major Materials



Material	Purpose
Steel	Structural exoskeleton, leveling jacks, protection shutters
2x4 wood	Framing
CDX Plywood	Walls and floor
Bamboo	Exterior decking
EPDM (ethylene propylene diene terpolymer)	Roof
ACX Plywood	Interior paneling, cabinets and floor
Spray Polyurethane Foam	Exterior
Glass	Exterior doors and windows
Porcelain tile	Shower

Mechanical Systems



System	Description
Heating	Forced air electric furnace
Cooling	<i>Not standard - available upgrade for additional cost</i>
Hot water	Tankless on-demand electric hot water heater
Toilet	Wall hung toilet bowl
Shower	Internal wall mount shower system External rinsing system
Cooking	2 burner electric cooktop - <i>no oven</i>
Refrigeration	Under counter refrigerator
Sink - kitchen only*	(1) Stainless steel undermount sink
Ventilation	(1) Bath, (1) Living / Sleep / Kitchen

**there is not a sink in the bathroom*

Three-Dimensional [Exterior]



Frontside



Backside

Three-Dimensional [Interior]



Kitchen / Living / Bed



Storage / Toilet / Shower

Plan Cost + Rate



Region 6 Shelter Plans

\$1,000

Design & Engineering

Additional design & engineering work as necessary to complete your project will be billed hourly. Estimates will be provided for all work.

\$175 /hr



Our unit can be built offsite, requires minimal site work, employs a non-traditional foundation and anchoring system, and includes all of the essentials for everyday living.

Our unit is the **perfect option** for individuals wishing to include an additional housing option on their single family residential lot.



THANK YOU

Co-founders:

KAINE ROBERTSON

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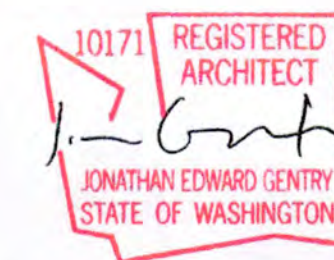


APPENDIX





R6 CABIN



L&I PERMIT SET (REV 1) JUNE 15, 2018

SHEET INDEX

COVER

ARCHITECTURAL

A000	GENERAL INFORMATION
A010	ASSEMBLIES
A100	MAIN PLANS
A110	REFLECTED CEILING PLAN
A200	EXTERIOR ELEVATIONS
A300	BUILDING SECTION
A301	BUILDING SECTION
A400	INTERIOR ELEVATIONS
A500	EXTERIOR DETAILS
A600	WINDOW + DOOR SCHEDULE

STRUCTURAL

1	NOTES
2	ELEVATIONS + PLAN VIEWS
3	FRAME DETAILS
4	JACK DETAILS
5	FRAMING PLANS
6	STRUCTURAL SECTIONS AND DETAILS
7	CERTIFICATIONS + ENGINEERING DOCUMENTATION
8	ENGINEERING DOCUMENTATION

ELECTRICAL

E100	ELECTRICAL PLAN
E101	ELECTRICAL SPECIFICATIONS

MECHANICAL

M100	MECHANICAL PLAN
M101	WASTE / VENT PLAN
M102	VENTILATION PLAN
M103	MECHANICAL SPECIFICATIONS

WAC 296.46B-250 052
Concrete encased grounding electrode must be installed at each new building or structure on permanent foundation.

R3 insulation required at hot water lines in conditioned spaces, all water pipes in unconditioned areas.

Onsite use and location of the modular building is the jurisdiction of the local building official. Site, grade and plot drainage plans are not reviewed by L&I.

Foundation plans and details are not reviewed by L&I, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering contained within this plan set.

STATE OF WASHINGTON
DEPARTMENT OF LABOR AND INDUSTRIES
FIELD SERVICES AND PUBLIC SAFETY
FACTORY ASSEMBLED STRUCTURES
PLAN APPROVAL # SP181800013
SUBJECT TO FIELD INSPECTION OVERSIGHT
OR VIOLATION OF RCW IS NOT INCLUDED
BY L&I DATE: 8/16/2018
EXPIRATION DATE: 8/16/2019

Decks, stairs, landings and guards which are not factory installed in the modules are not reviewed or approved by L&I. Local jurisdiction having authority is responsible for all permits, review, approval and inspection of these items. Typical of all sheets, details and engineering related to these items.

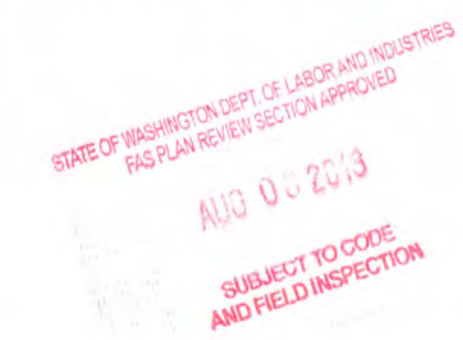
All equipment must be installed per the manufacturer's specifications and in accordance with all applicable listings. Manufacturer's installation specifications shall be available on the jobsite at the time of inspection. Applicable working clearances must be maintained at all equipment.

Also see the NLEA (notice to local enforcement agency) form attached to this plan set. NLEA items may require review, approval and/or inspection by local authority having jurisdiction TYPICAL ALL SITE INSTALLED ITEMS

2017 NEC Required

goCstudio llc
architecture+design

321 3rd Ave S #201
Seattle, WA 98104
206.265.2754
www.goCstudio.com



ABBREVIATIONS

⊙	AT	FOIO	FURNISHED/INSTALLED BY OWNER	R	RISER
⊕	CENTERLINE	FOM	FACE OF MASONRY	RA	RETURN AIR
⊖	PROPERTY LINE	FOS	FACE OF STUDS	RAD	RADIUS
∅	DIAMETER	FP	FIREPROOF	RD	ROOF DRAIN
#	POUND OR NUMBER	FPL	FIREPLACE	REF	REFERENCE
(E)	EXISTING	FR	FRAME	REFR	REFRIGERATOR
(N)	NEW	FT	FOOT OR FEET	REG	REGISTER
		FTG	FOOTING	REIN	REINFORCED
AB	ANCHOR BOLT	FURR	FURRING	REM	REMAINDER
ABV	ABOVE	FUT	FUTURE	REQ	REQUIRED
ACC	ACCESS	FW	FULL WIDTH	RESIL	RESILIENT
ACOUS	ACOUSTICAL			REV	REVISION(S); REVISED
ACP	ASPHALT CONCRETE PAVING	GA	GAUGE	RH	RIGHT HAND
ACT	ACOUSTICAL CEILING TILE	GALV	GALVANIZED	RM	ROOM
ACS PNL	ACCESS PANEL	GC	GENERAL CONTRACTOR	RO	ROUGH OPENING
AD	AREA DRAIN	GL	GLASS	RWL	RAIN WATER LEADER
ADA	AMERICANS WITH DISABILITIES	GLAM	GLUE-LAMINATED		
ADJ	ADJUSTABLE	GR	GRADE	S	SOUTH
AFF	ABOVE FINISHED FLOOR	GWB	GYPNUM WALL BOARD	SAF	SELF-ADHERED FLASHING
AGGR	AGGREGATE	GYP	GYPNUM	SAM	SELF-ADHERED MEMBRANE
AIB	AIR FILTRATION BARRIER			SC	SOLID CORE
ALT	ALTERNATE	HB	HOSE BIB	SCHED	SCHEDULE
ALUM	ALUMINUM	HC	HOLLOW CORE	SD	SMOKE DETECTOR
APPROX	APPROXIMATE	HDO	HIGH DENSITY OVERLAY	SECT	SECTION
ARCH	ARCHITECTURAL	HDR	HEADER	SG	SAFETY GLAZING
APSH	ASPHALT	HDWD	HARDWOOD	SHV	SHelf; shelving
AUTO	AUTOMATIC	HDW	HARDWARE	SHR	SHOWER
		HM	HOLLOW METAL	SHT	SHEET
BD	BOARD	HORIZ	HORIZONTAL	SHT MTL	SHEET METAL
BITUM	BITUMINOUS	HP	HIGH POINT	SHTG	SHEATHING
BLDG	BUILDING	HR	HR	SIM	SIMILAR
BLKG	BLOCKING	HT	HEIGHT	SOG	SLAB ON GRADE
BM	BEAM	HVAC	HEATING/VENTILATING/	SPEC	SPECIFICATION
BO	BOTTOM OF		AIR CONDITIONING	SQ FT	SQUARE FOOT (FEET)
BOT	BOTTOM	HW	HOT WATER	SQ IN	SQUARE INCHES)
BRG	BEARING	HWT	HOT WATER TANK	SST	STAINLESS STEEL
BSMT	BASEMENT			STND	STANDARD
BUR	BUILT UP ROOFING	ID	INSIDE DIAMETER	STL	STEEL
		IN	INCH	STOR	STORAGE
CAB	CABINET	INCL	INCLUDED	STRUCT	STRUCTURAL
CB	CATCH BASIN	INSUL	INSULATION	SUSP	SUSPENDED
CEM	CEMENT	INT	INTERIOR	SYM	SYMMETRICAL
CER	CERAMIC	INV	INVERT		
CG	CORNER GUARD			T	TREAD
CI	CAST IRON	JB	JUNCTION BOX	T&G	TONGUE AND GROOVE
CIP	CAST-IN-PLACE	JF	JOINT FILLER	TEL	TELEPHONE
CJ	CONTROL JOINT	JT	JOINT	TER	TERRAZZO
CLG	CEILING			TG	TEMPERED GLASS
CLK	CAULKING	KIT	KITCHEN	THK	THICK
CLO	CLOSET	KO	KNOCKOUT	TO	TOP OF...
CLR	CLEAR			TOB	TOP OF BEAM
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE, LAMINATED	TOC	TOP OF CONCRETE; CURB
CNTR	COUNTER	LAV	LAVATORY	TOF	TOP OF FLOOR; FOOTING; FRAME
COL	COLUMN	LBS	POUNDS	TOM	TOP OF MASONRY
CONC	CONCRETE	LF	LINEAR FEET (FOOT)	TOP	TOP OF PARAPET; PAVEMENT
CONN	CONNECTION	LH	LEFT HAND	TOPO	TOPOGRAPHY
CONSTR	CONSTRUCTION	LL	LIVE LOAD	TOS	TOP OF SLAB; TOP OF STEEL
CONT	CONTINUOUS	LOC	LOCATION	TOW	TOP OF WALL
CONTR	CONTRACTOR	LP	LOW POINT	TS	TUBE STEEL
CORR	CORRIDOR	LT	LIGHT	TSTAT	THERMOSTAT
CPT	CARPET, CARPETED			TYP	TYPICAL
CRS	COLD ROLLED STEEL	MAS	MASONRY		
CSK	COUNTERSUNK	MATL	MATERIAL	UNO	UNLESS NOTED OTHERWISE
CT	CERAMIC TILE	MAX	MAXIMUM		
CTR	CENTER	MB	MACHINE BOLT	VB	VINYL BASE
CU FT	CUBIC FEET	MC	MEDICINE CABINET	VEN	VENNER
		MDF	MEDIUM DENSITY FIBERBOARD	VERT	VERTICAL
		MDO	MEDIUM DENSITY OVERLAY	VEST	VESTIBULE
		MECH	MECHANICAL	VG	VERTICAL GRAIN
		MEMB	MEMBRANE	VIF	VERIFY IN FIELD
		MEZZ	MEZZANINE	VT	VINYL TILE
		MFR	MANUFACTURER		
		MIN	MINIMUM	W	WEST
		MIR	MIRROR	W/	WITH
		MISC	MISCELLANEOUS	W/O	WITHOUT
		MO	MASONRY OPENING	WC	WATER CLOSET
		MTD	MOUNTED	WD	WOOD
		MTL	METAL	WDW	WINDOW
		MUL	MULLION	WF	WIDE FLANGE
				WF BM	WIDE FLANGE BEAM
		N	NORTH	WG	WIRED GLASS
		N/A	NOT APPLICABLE	WH	WATER HEATER
		NIC	NOT IN CONTRACT	WL	WATER LINE
		NO	NUMBER	WLD	WELDED
		NOM	NOMINAL	WP	WATERPROOF
		NR	NOISE REDUCTION	WPM	WATERPROOF MEMBRANE
		NTS	NOT TO SCALE	WR	WATER RESISTANT
				WSCT	WAINSCOT
		OA	OVERALL	WSG	WIRE SAFETY GLASS
		OC	ON CENTER	WTR	WATER
		OD	OUTSIDE DIAMETER,	WWF	WELDED WIRE FABRIC
		OFF	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
		OFF	OFFICE	WT	WEIGHT
		OH	OVERHEAD		
		OHWM	ORDINARY HIGH WATER MARK		
		OPNG	OPENING		
		OPP	OPPOSITE		
		OSB	ORIENTED STRAND BOARD		
		PBD	PARTICLE BOARD		
		PCC	PRECAST CONCRETE		
		PCF	POUNDS PER CUBIC FOOT		
		PERF	PERFORATED		
		PERP	PERPENDICULAR		
		PL	PLATE		
		PLAM	PLASTIC LAMINATE		
		PLAS	PLASTER		
		PLVD	PLYWOOD		
		PNL	PANEL		
		PNT	POINT		
		PR	PAIR		
		PRCST	PRECAST		
		PSF	POUNDS PER SQUARE FOOT		
		PSI	POUNDS PER SQUARE INCH		
		PT	PRESERVATIVE TREATED		
		PTN	PARTITION		
		PVC	POLYVINYL CHLORIDE		

GENERAL NOTES

APPLICABLE CODES AND REGULATIONS:

1. APPLICABLE CODES AND REGULATIONS:
 - BUILDING: 2015 International Residential Code
 - MECHANICAL: 2015 International Mechanical Code
 - ELECTRICAL: 2017 National Electrical Code
 - PLUMBING: 2015 WA State Uniform Plumbing Code
 - ENERGY: 2015 WA State Residential Energy Code
 - FIRE: 2015 International Fire Code

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE AND CONFORMANCE WITH THE VARIOUS PROVISIONS WITHIN ORDINANCES AND CODES LISTED ABOVE IN ALL OF THE WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
3. PROJECT DRAWINGS INDICATE GENERAL CONFIGURATION OF CONSTRUCTION. WHERE CONDITIONS REQUIRE SPECIFIC DETAIL INFORMATION NOT INCLUDED WITH THESE DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM INTENT WITH THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
4. goCstudio, LLC ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOILS.
5. goCstudio, LLC ASSUMES NO RESPONSIBILITY FOR, NOR VERIFIES THE ACCURACY OF, ANY ENGINEERING DATA SUPPLIED BY OTHERS.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING OR CONTINUING ANY CONSTRUCTION IN THE AREA OF CONCERN. HOLD INDICATED DIMENSIONS. DO NOT SCALE DRAWINGS.
7. DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE/WOOD FRAMING UNLESS NOTED OTHERWISE.
8. IN THE EVENT OF DISCREPANCIES OR CONTRADICTORY INFORMATION IN THE DRAWINGS, NOTES, OR SPECIFICATIONS, IT IS THE OBLIGATION OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF SAME AND TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK.
9. ALL CONTRACT DOCUMENTS PERTAINING TO THIS PROJECT ARE TO BE CONSIDERED AND INTERPRETED FOR BIDDING AND CONSTRUCTION PURPOSES AS A COMPLETE WHOLE. NO PART OF THE CONTRACT DOCUMENTS SHALL BE DISTRIBUTED, CONSIDERED, OR USED IN ANY WAY INDEPENDENT OF THE COMPLETE SET OF DOCUMENTS.
10. THE ARCHITECT SHALL HAVE FINAL AUTHORITY WITH REGARD TO INTERPRETATION OF THE INTENT AND SPIRIT OF THE CONTRACT DOCUMENTS.
11. MECHANICAL SYSTEM, ELECTRICAL SYSTEM, PLUMBING SYSTEM, AND FIRE PROTECTION SYSTEM (IF APPLICABLE) TO BE BIDDER DESIGNED. SUB-CONTRACTORS DESIGNATED TO ACCOMPLISH THE ABOVE WILL BE RESPONSIBLE FOR THE PREPARATION OF DRAWINGS AND APPLICATIONS FOR APPROPRIATE REQUIRED PERMITS. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK TO COMPLY WITH APPLICABLE CODES.
12. APPLICATION AND INSTALLATION OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH CURRENT WASHINGTON STATE THERMAL INSULATION STANDARDS.
13. NON-RECIRCULATING HOT AND COLD WATER PIPES LOCATED IN UNCONDITIONED SPACES SHALL BE INSULATED TO THE MINIMUM REQUIRED BY CODE.
15. SAFETY GLAZING SHALL BE INSTALLED IN AREAS SUBJECT TO HUMAN IMPACT ACCORDING TO INTERNATIONAL BUILDING CODE.
16. ALL EXTERIOR WALL GLAZING SHALL BE DOUBLE-GLAZED AND COMPLY WITH THE WASHINGTON STATE ENERGY CODE REQUIREMENTS.
17. FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE LOCATIONS IN ACCORDANCE WITH APPLICABLE CODES.
18. GUARDRAILS SHALL BE PLACED AT ALL UNENCLOSED FLOOR AND ROOF OPENINGS, LANDING RAMPS, BALCONIES, DECKS OR PORCHES WHICH ARE MORE THAN 30" ABOVE FINISHED GRADE OR FLOOR BELOW. TOP OF GUARDRAILS SHALL NOT BE LESS THAN 42" IN HEIGHT. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNING WHICH WILL NOT ALLOW THE PASSAGE OF A 4" SPHERE.
19. ONE HANDRAIL SHALL BE PROVIDED AT EVERY STAIRWAY HAVING FOUR OR MORE RISERS. TOPS OF HANDRAILS SHALL BE NOT LESS THAN 34" NOR MORE THAN 38" ABOVE THE NOSING OF TREADS. HANDGRIP PORTIONS OF HANDRAILS SHALL BE NOT LESS THAN 1 1/2", NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION AND SHALL TERMINATE IN WALLS OR NEWEL POSTS.
20. PROVIDE WOOD OR METAL BLOCKING AT PARTITIONS, CEILINGS, AND WALLS FOR ALL MOUNTED ACCESSORIES AS REQUIRED.
21. EXHAUST FANS VENTED TO THE EXTERIOR ARE REQUIRED IN ALL OF THE FOLLOWING LOCATIONS: BATHROOMS, POWDER ROOMS, LAUNDRY ROOMS, AND KITCHENS. VENTING TO BE INSTALLED IN ACCORDANCE TO APPLICABLE CODES.
22. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING ALL WORK INCLUDING ADDITIONAL PERMITS AND SUBCONTRACTOR WORK.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL BUILDING INSPECTIONS WITH LOCAL JURISDICTION IN AUTHORITY.
24. CONTRACTOR SHALL CLEAN ALL SURFACES PRIOR TO OCCUPANCY.
25. ALL EXTERIOR JOINTS SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE IN THE FOLLOWING LOCATIONS: PER WASHINGTON STATE ENERGY CODE. WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF, OPENINGS AT PENETRATION OF UTILITY SERVICES, ALL OTHER OPENINGS IN THE BUILDING ENVELOPE.
26. ALL EXISTING CONSTRUCTION AND LANDSCAPE FEATURES THAT ARE TO REMAIN AS PART OF THE PROJECT SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE PERIOD OF CONSTRUCTION WORK. ANY DAMAGED CONSTRUCTION OR FEATURES SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER, WITH MATERIALS EQUIVALENT OR SUPERIOR TO THE ORIGINAL ITEM(S).
27. GRADING AND PAVING ADJACENT TO THE PERIMETER OF THE BUILDING SHALL SLOPE AWAY FROM THE BUILDING AT A MINIMUM OF 1/4" INCH PER FOOT UNLESS NOTED OTHERWISE.
28. ALL ELECTRICAL OUTLETS, COMPUTER AND TELEPHONE OUTLETS/JACKS, SWITCHES, PULL STATIONS, THERMOSTATS, EXIT LIGHTS, AND ALL OTHER WALL MOUNTED ACCESSORIES SHALL BE ALIGNED VERTICALLY OR HORIZONTALLY WHEN IN CLOSE PROXIMITY. COORDINATION OF THIS ALIGNMENT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
29. THE CONTRACTOR SHALL BE OBLIGATED AS A MATTER OF COURSE TO VERIFY, BY FIELD MEASUREMENTS, ALL SURVEY INFORMATION GIVEN. THE EXISTENCE AND LOCATIONS OF UNDERGROUND UTILITIES INDICATED ON THE DRAWINGS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING ANY WORK.
30. DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE CALCULATED DIMENSIONS ONLY. NOTIFY THE ARCHITECT IF ANY CONFLICTS EXIST.
31. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT. PROVIDE ALL BUCK-OUT, BLOCKING, BACKING, AND JACKS REQUIRED FOR INSTALLATION.

PROJECT TEAM

OWNER: R6 Ventures LLC Kaine Robertson Brendon Lehman	STRUCTURAL ENGINEER: KB Architectural 106 CHURCH ST, SUITE 4 ROSEVILLE, CA 95678
ARCHITECT: goCstudio 321 3RD AVE S, SUITE 201 SEATTLE, WA 98104 206-265-2754 www.goCstudio.com	JEREMY KRAMP jeremy@kbarchitectural.com 425-876-5795
CONTRACTOR: CA Adams LLC 110 NORTHWEST CANAL ST SEATTLE, WA 98107	MECHANICAL ENGINEER SOLARC Energy Group 1158 HIGH ST, EUGENE, OR 97401
CHARLIE ADAMS c@caadams.com	MIKE HATTEN mikeh@solarcenergygroup.com 541.349.0966
	ELECTRICAL ENGINEER SOLARC Energy Group 1158 HIGH ST, EUGENE, OR 97401
	JIM KRUMSICK jkrumsick@outlook.com

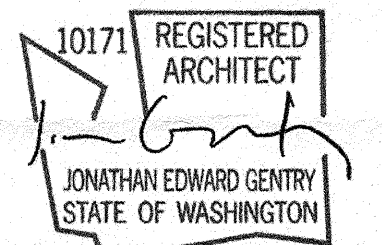
LEGEND

GRID BUBBLE	①	---	ALL PLAN/SECTION CUTS	
NORTH ARROW			CMU BLOCK	
EXTERIOR ELEVATION TAG	A309	DRAWING NUMBER SHEET NUMBER	WATER	
BUILDING SECTION	A2.3	DRAWING NUMBER SHEET NUMBER	STONE ELEVATION	
INTERIOR ELEVATION TAG	7 A500 10		CLEAR GLASS	
DETAIL TAG	2 A400		TRANSLUCENT GLASS	
REVISION TAG			WOOD ELEVATION	
WALL TYPE TAG	XX		BLOWN INSULATION	
DATUM	TO STL BM 14'-0"		BATT INSULATION	
WINDOW TAG	306		TILE	
DOOR TAG	201.1		PLASTER	
DRAWING TAG	1 MAINPLAN A100 1/4"=1'0"		STEEL	
ROOM + NUMBER	ROOMNAME 208		CMU	
STAIR LEADER	3WQ4 1RW	DN	MORTAR	
			STONE	
			EARTH	
			WOOD SHEATHING	
			RIGID INSULATION	
			HARDWOOD	
			CONCRETE	
			GRAVEL	
			WOOD BLOCKING (CONTINUOUS)	
			WOOD BLOCKING SHIM	

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date	_____
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job no.	_____

revisions	REV. 1 - LB CONNECTIONS

R6 CABIN
L&I PERMIT SET (REV 1)
JUNE 15, 2018

OWNER: REGION 6 VENTURES

goCstudio project# 17016

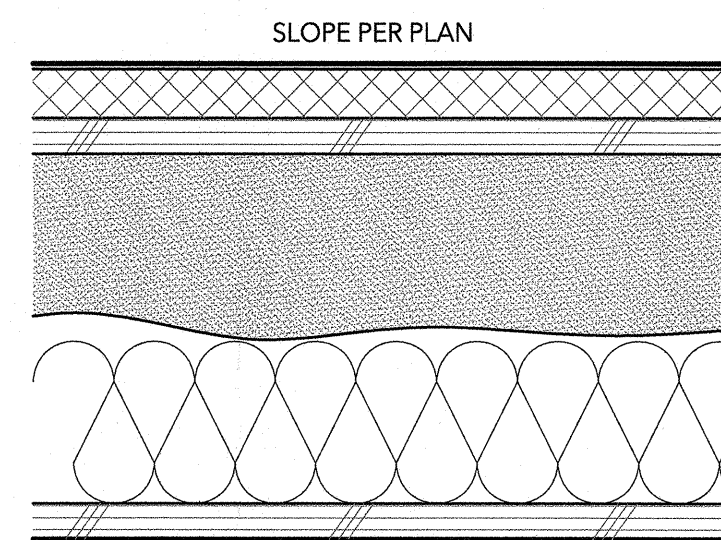
R6 CABIN

L&I PERMIT SET
GENERAL INFO

JUNE 15, 2018 SCALE: 1/4" = 1'-0" © 2018

A000

R3

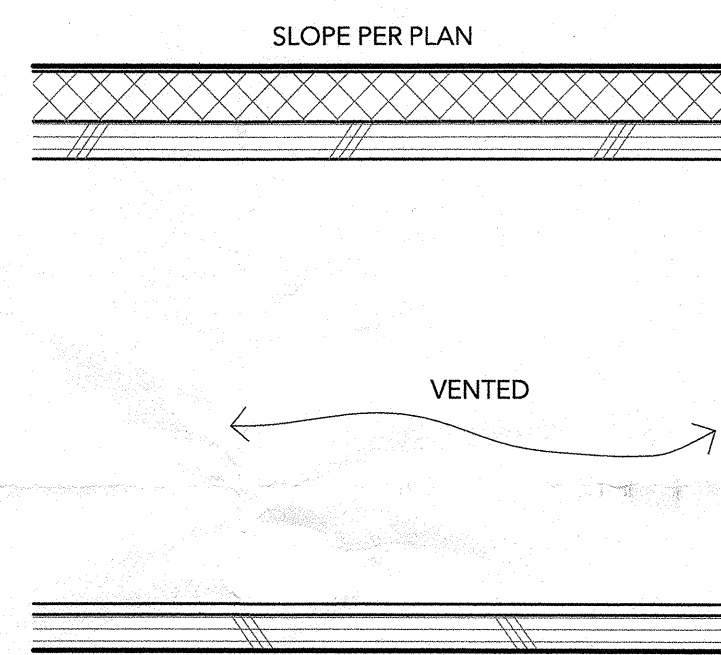


ROOF OVER UTILITY SPACE

- EPDM ROOFING OVER
- (R-5.7) 1" MIN POLYISO RIGID INSULATION (BUILD UP INSUL FOR SLOPE) OVER
- 3/4" PLYWOOD OVER
- FRAMING PER STRUCT WITH
- (R-26) 4" CLOSED CELL SPRAY FOAM WITH
- R-15 ROCKWOOL COMFORT BATT INSULATION TO FILL REST OF VOID SPACE OVER
- 3/4" MARINE GRADE PLY, FIN PER SCHEDULE

*TOTAL R-VALUE = R-46.7 (R-38 MIN)

R2



ROOF OVER EXTERIOR SPACE

- EPDM ROOFING OVER
- (R-5.7) 2" POLYISO RIGID INSULATION OVER
- 3/4" PLYWOOD OVER
- FRAMING PER STRUCT WITH
- 3/4" MARINE GRADE PLYWOOD; FIN PER SCHEDULE

NOTE:

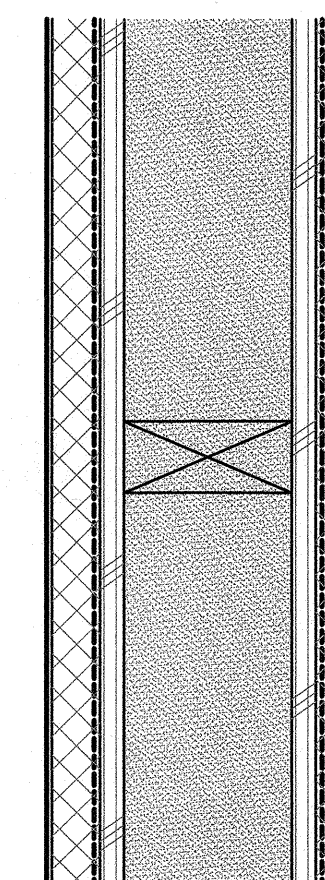
- PROVIDE SOFFIT VENT TO VENT FRAMING CAVITY

F2



- 5/4" IPE WOOD DECKING OVER
- PT WOOD FRAMING PER STRUCT

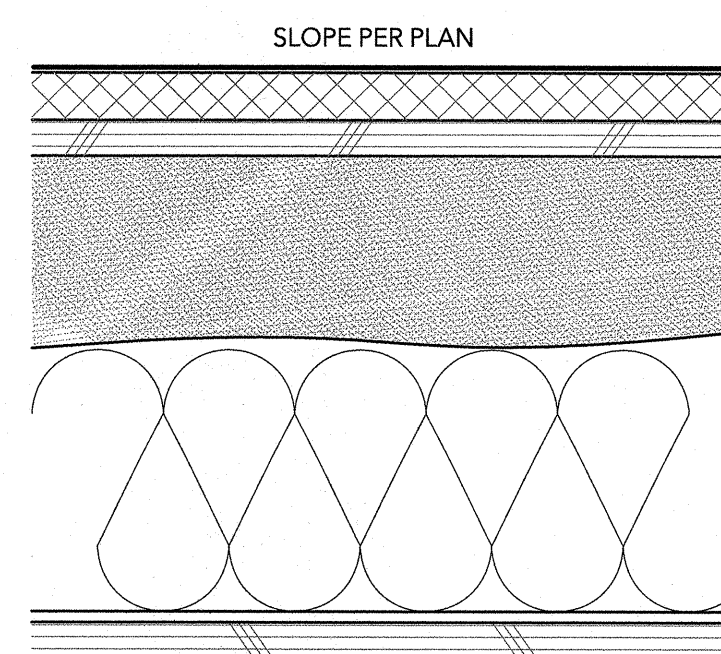
W2



EXTERIOR WALL @ PORCH

- EPDM ADHERED TO
- 1" (R5.7) POLYISO RIGID INSULATION OVER
- PROSOCCO LIQUID APPLIED WEATHER BARRIER SYSTEM OVER
- 1/2" CDX PLYWOOD (PER STRUCT) OVER
- 2X4 WOOD FRAMING (SPACING PER STRUCT) WITH
- (R-22.75) 3.5" CLOSED CELL SPRAY FOAM WITH
- 1/2" CDX PLYWOOD (PER STRUCT) OVER
- PROSOCCO LIQUID APPLIED WEATHER BARRIER SYSTEM OVER
- 1" (R5.7) POLYISO RIGID INSULATION OVER
- EPDM

R1

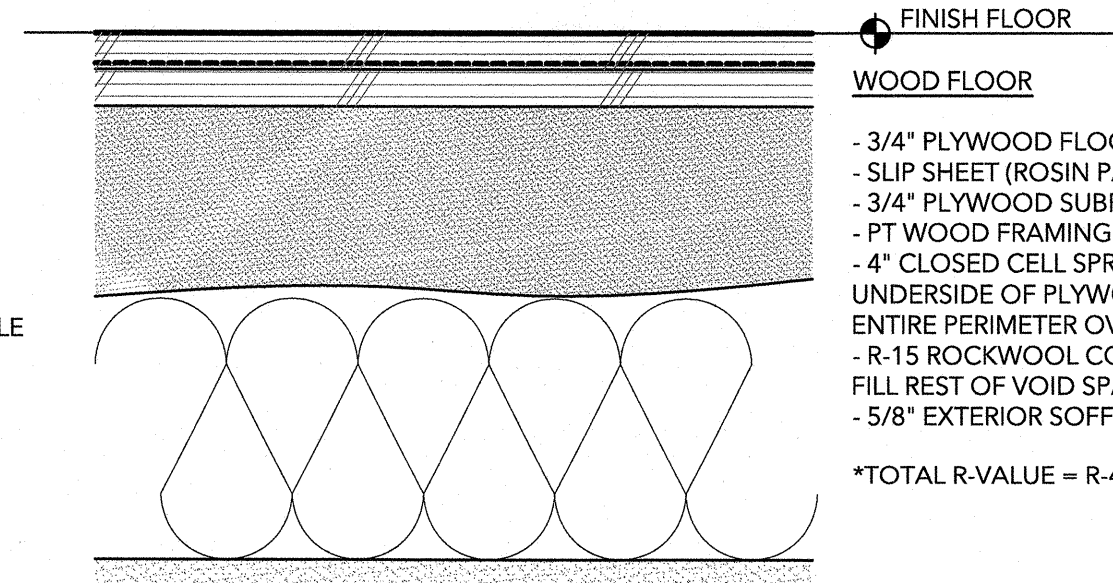


ROOF OVER CONDITIONED SPACE

- EPDM ROOFING OVER
- (R-5.7) 1" POLYISO RIGID INSULATION OVER
- 3/4" PLYWOOD OVER
- FRAMING PER STRUCT WITH
- (R-26) 4" CLOSED CELL SPRAY FOAM WITH
- R-15 ROCKWOOL COMFORT BATT OVER
- 3/4" MARINE GRADE PLYWOOD; FIN PER SCHEDULE

*TOTAL R-VALUE = R-46.7 (R-38 MIN)

F1



FINISH FLOOR

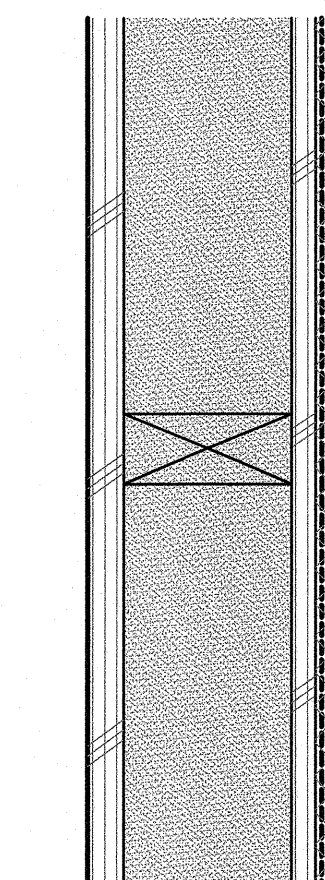
WOOD FLOOR

- 3/4" PLYWOOD FLOORING OVER
- SLIP SHEET (ROSIN PAPER) OVER
- 3/4" PLYWOOD SUBFLOOR PER STRUCT OVER
- PT WOOD FRAMING PER STRUCT WITH
- 4" CLOSED CELL SPRAY FOAM (2 PCF, R26) UNDERSIDE OF PLYWOOD DECKING AND AROUND ENTIRE PERIMETER OVER
- R-15 ROCKWOOL COMFORT BATT INSULATION TO FILL REST OF VOID SPACE OVER
- 5/8" EXTERIOR SOFFIT BOARD - PAINT PER SPEC

*TOTAL R-VALUE = R-41 (R-30 MIN)

W1

W1B



EXTERIOR WALL

- EPDM ADHERED TO
- 1" (R5.7) POLYISO RIGID INSULATION OVER
- PROSOCCO LIQUID APPLIED WEATHER BARRIER SYSTEM OVER
- 1/2" CDX PLYWOOD (PER STRUCT) OVER
- 2X4 WOOD FRAMING (SPACING PER STRUCT) WITH
- (R-22.75) 3.5" CLOSED CELL SPRAY FOAM WITH
- 3/4" A/C PLYWOOD; SEE FIN SCHED FOR TILE LOCATIONS

*TOTAL R-VALUE = R-28.45 (R-21MIN)

W1B - 2X6 WALL

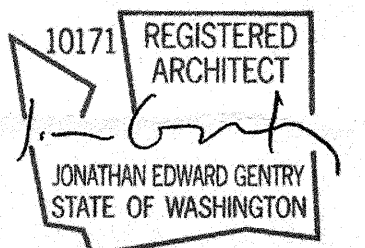
GENERAL NOTE

- FRAMING + SHEATHING MUST BE DRY (15% MOISTURE CONTENT OR LESS) BEFORE INSTALLATION OF SPRAY FOAM

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R6 CABIN

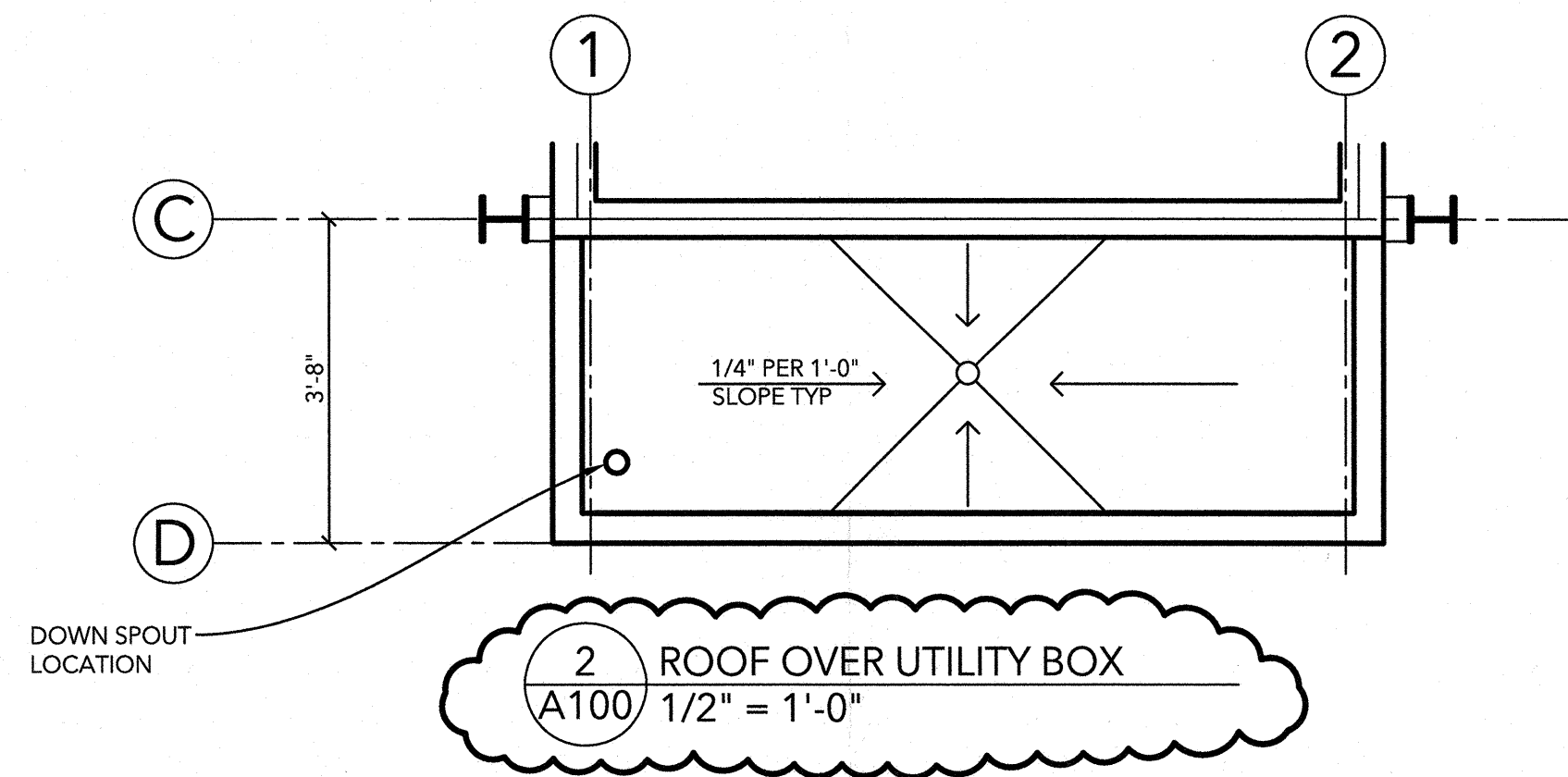
L&I PERMIT SET
ASSEMBLIES

JUNE 17, 2018

SCALE: 3" = 1'-0" @ 22X34"

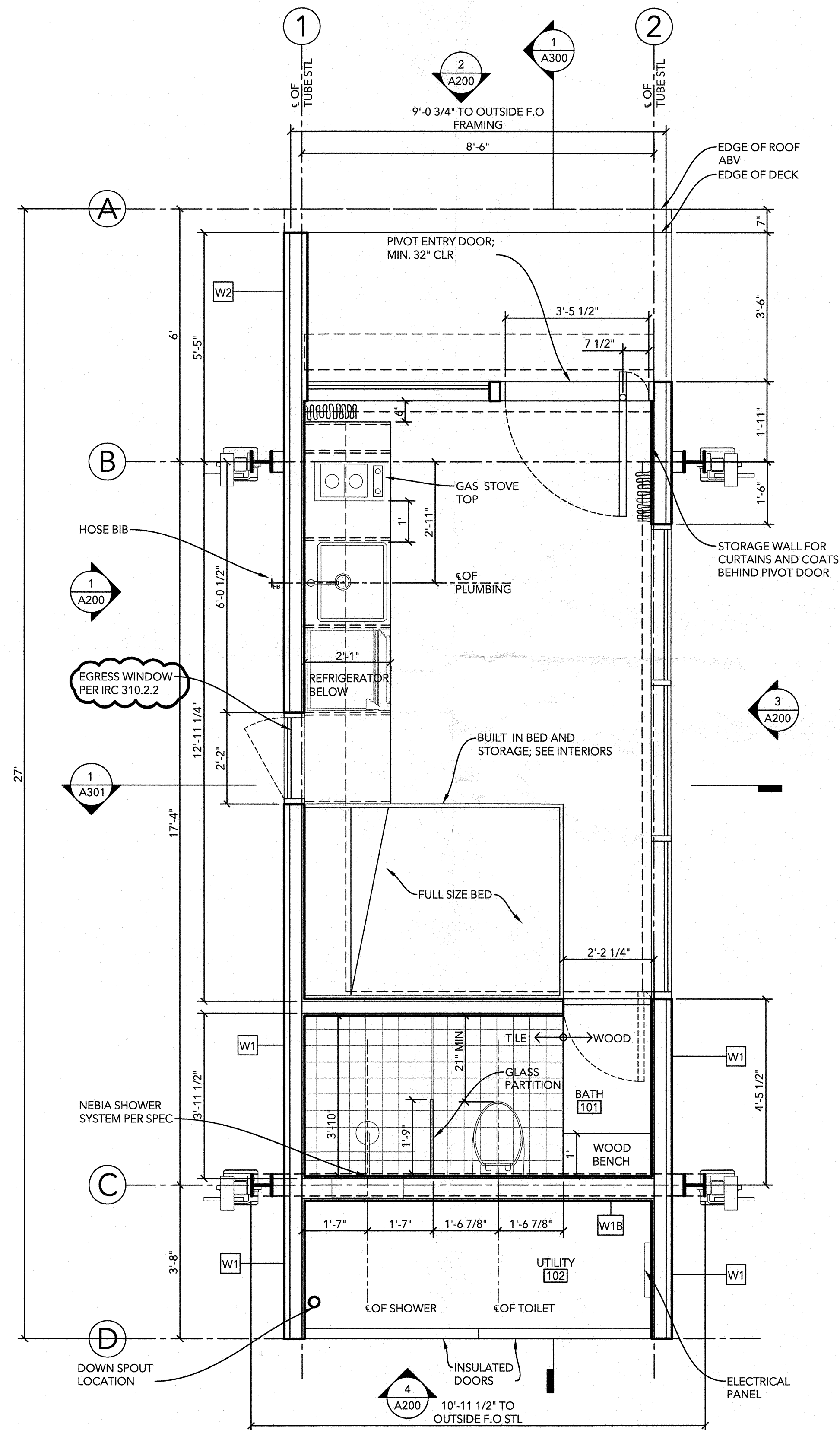
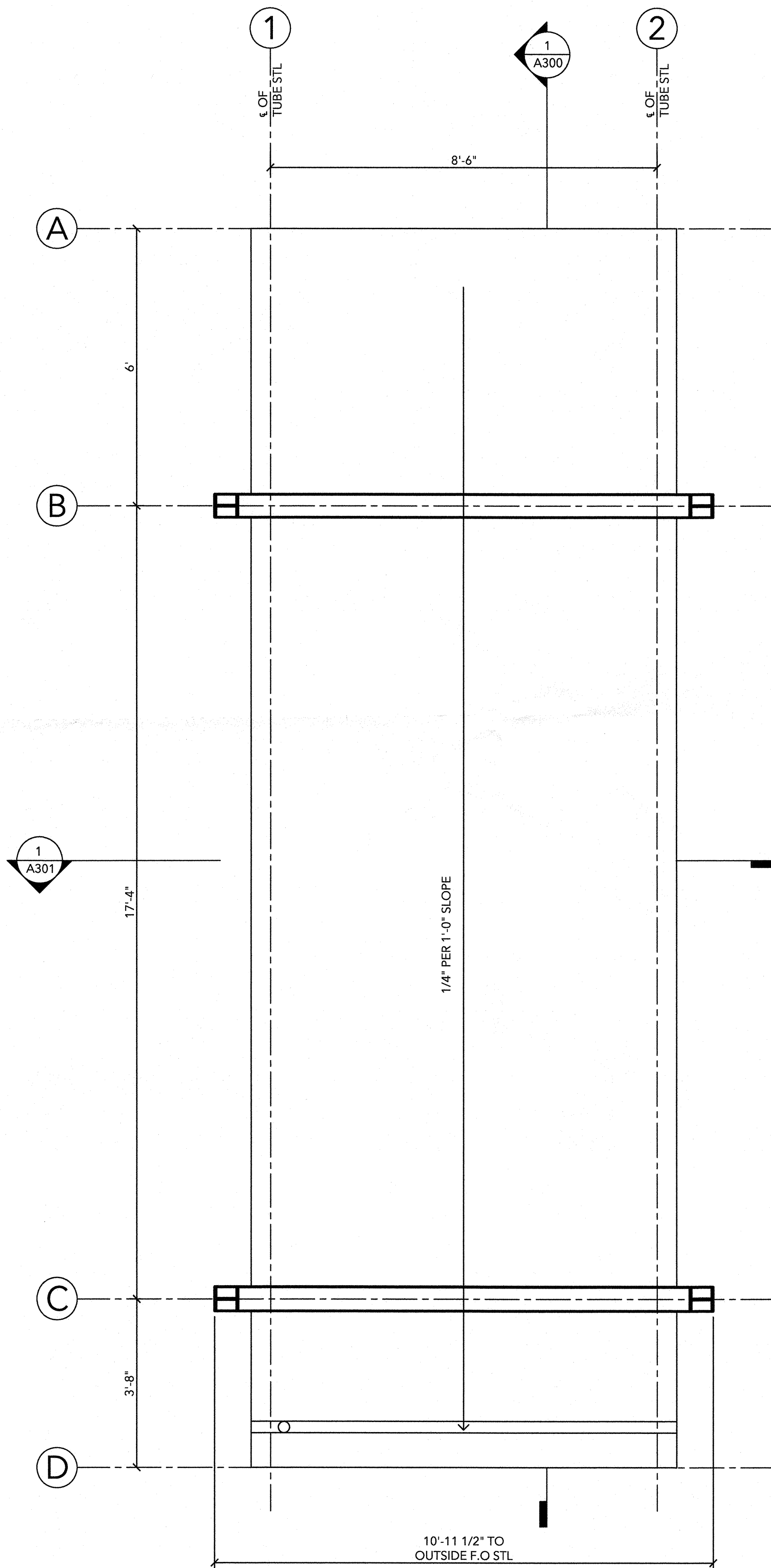
1 ASSEMBLIES
A010 3"=1'-0"

A010



CODE NOTES:

- WSEC R402.4.1.2 - BUILDING SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR EXCHANGES / HOUR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS) A WRITTEN REPORT OF THE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR, PRIOR TO CALL FOR FINAL INSPECTION.
- WSEC 403.1 - EACH DWELLING UNIT IS REQUIRED TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE
- WSEC 403.3.3 - DUCTS SHALL BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33, USING THE MAXIMUM DUCT LEAKAGE RATES SPECIFIED. A WRITTEN REPORT OF THE RESULTS SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL.
- CONTRACTOR TO COMPLETE AND POST INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION WITHIN 3' OF ELECTRICAL PANEL PRIOR TO FINAL INSPECTION (PER WSEC R401.3)
- PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE
- CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT (PER WSEC R403.1.1)
- INTERMITTENT WHOLE HOUSE FAN RATE BASED ON WAC 51-51-1507, TABLE M1507.3.3(1) MULTIPLIED BY FACTOR ON TABLE M1507.3.3(2) - SEE MECHANICAL - M102
- ACTIVE AIR TRICKLES AND VENTILATION: VENTILATION AIR INTAKE IS VIA OPERABLE WINDOWS AND CALLED OUT ON M102 AT 10.5 SF AREA
- PER WSEC TABLE R402.1.1 DOOR AND WINDOW HEADERS TO BE INSULATED WITH A MINIMUM OF R-10 INSULATION
- ENERGY CREDITS - 1.5 REQUIRED FOR SMALL DWELLING UNIT (PER WSEC R406.2). ENERGY CREDITS TO BE MET THROUGH THE FOLLOWING OF TABLE 406.2 - SEE M101:
 - 5a - 0.5 PT
 - 5b - 1PT
- MINIMUM 75% OF ALL INTERIOR LUMINAIRES SHALL BE HIGH EFFICACY LUMINAIRES.
- ALL EXTERIOR LIGHTING SHALL BE HIGH EFFICACY LUMINAIRES
- DOOR TO BE UNDERCUT TO A MINIMUM OF 1/2" ABOVE THE SURFACE OF THE FINISH FLOOR COVERING TO FACILITATE VENTILATION



Property Address: T.B.D IN WASHINGTON STATE
 Conditioned Floor Area: 192 SQ.FT Date: 06 /13 /2018
 Builder or registered design professional: goCstudio (ARCHTCT), CA ADAMS (CONTRACTOR)
 Signature: *[Signature]*

R-Values

Ceiling: Vaulted R-38 Floors: Over unconditioned space R-30
 Attic R- Slab on grade floor R-
 Walls: Above grade R-21 Doors: R-
 Below, int. R- R-
 Below, ext. R- R-

U-Factors and SHGC

NFRC rating (or) Windows U-0.30 SHGC- N/A
 Default rating (Appendix A WSEC 2015) Skylights U- SHGC- N/A

Table 406.2 Option(s) 5A, 5B Total 406.2 Credits 1.5

Heating, Cooling & Domestic Hot Water

System	Type	Efficiency
Heating	CONDENSING HOT WATER BOILER (COMBI-BOILER) LPG FIRED	94% (AFUE)
Cooling	N/A	
DHW	CONDENSING HOT WATER BOILER (COMBI-BOILER) LPG FIRED	94% (AFUE)

Duct & Building Air Leakage

All ducts & HVAC in conditioned space () / (no) Insulation R- N/A
 Air handler present () / (no) FAN COIL UNITS
 Test Target CFM@25Pa Test Result CFM@25Pa
 Building air leakage target: ACH₅₀ < 5.0 - Tested leakage: ACH₅₀ =

Onsite Renewable Energy Electric Power System

System type: Rated annual generation Kwh

Property Address: T.B.D IN WASHINGTON STATE
 Conditioned Floor Area: 192 SQ.FT Date: 06 /13 /2018
 Builder or registered design professional: goCstudio (ARCHTCT), CA ADAMS (CONTRACTOR)
 Signature: *[Signature]*

R-Values

Ceiling: Vaulted R-38 Floors: Over unconditioned space R-30
 Attic R- Slab on grade floor R-
 Walls: Above grade R-21 Doors: R-
 Below, int. R- R-
 Below, ext. R- R-

U-Factors and SHGC

NFRC rating (or) Windows U-0.30 SHGC- N/A
 Default rating (Appendix A WSEC 2015) Skylights U- SHGC- N/A

Table 406.2 Option(s) 5A, 5B Total 406.2 Credits 1.5

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Duct & Building Air Leakage

All ducts & HVAC in conditioned space () / (no) Insulation R- N/A
 Air handler present () / (no) FAN COIL UNITS
 Test Target CFM@25Pa Test Result CFM@25Pa
 Building air leakage target: ACH₅₀ < 5.0 - Tested leakage: ACH₅₀ =

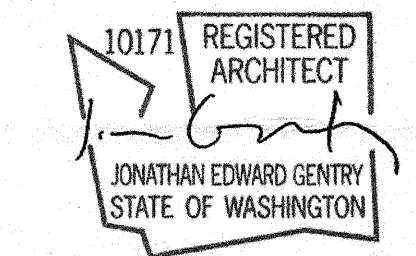
Onsite Renewable Energy Electric Power System

System type: Rated annual generation Kwh

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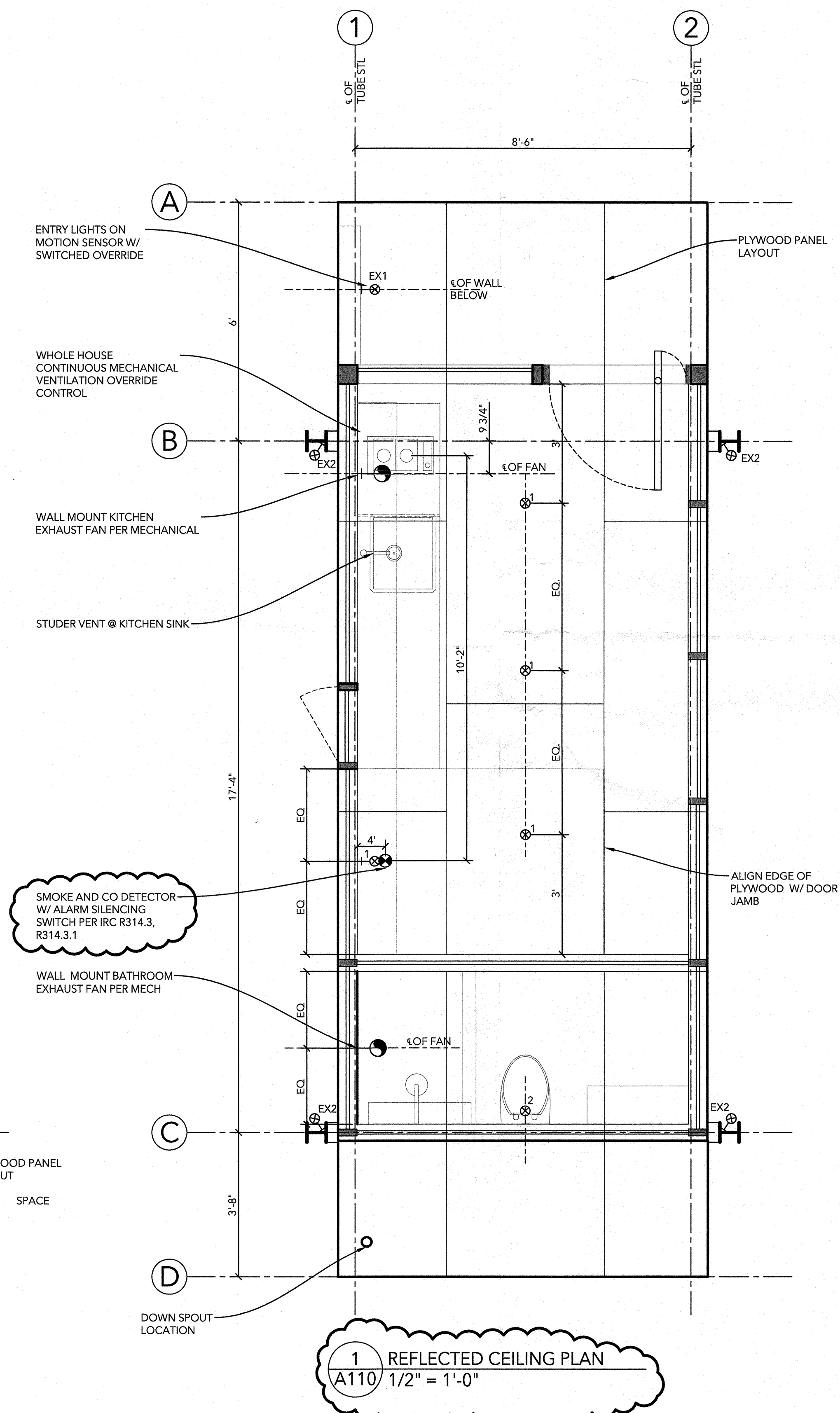
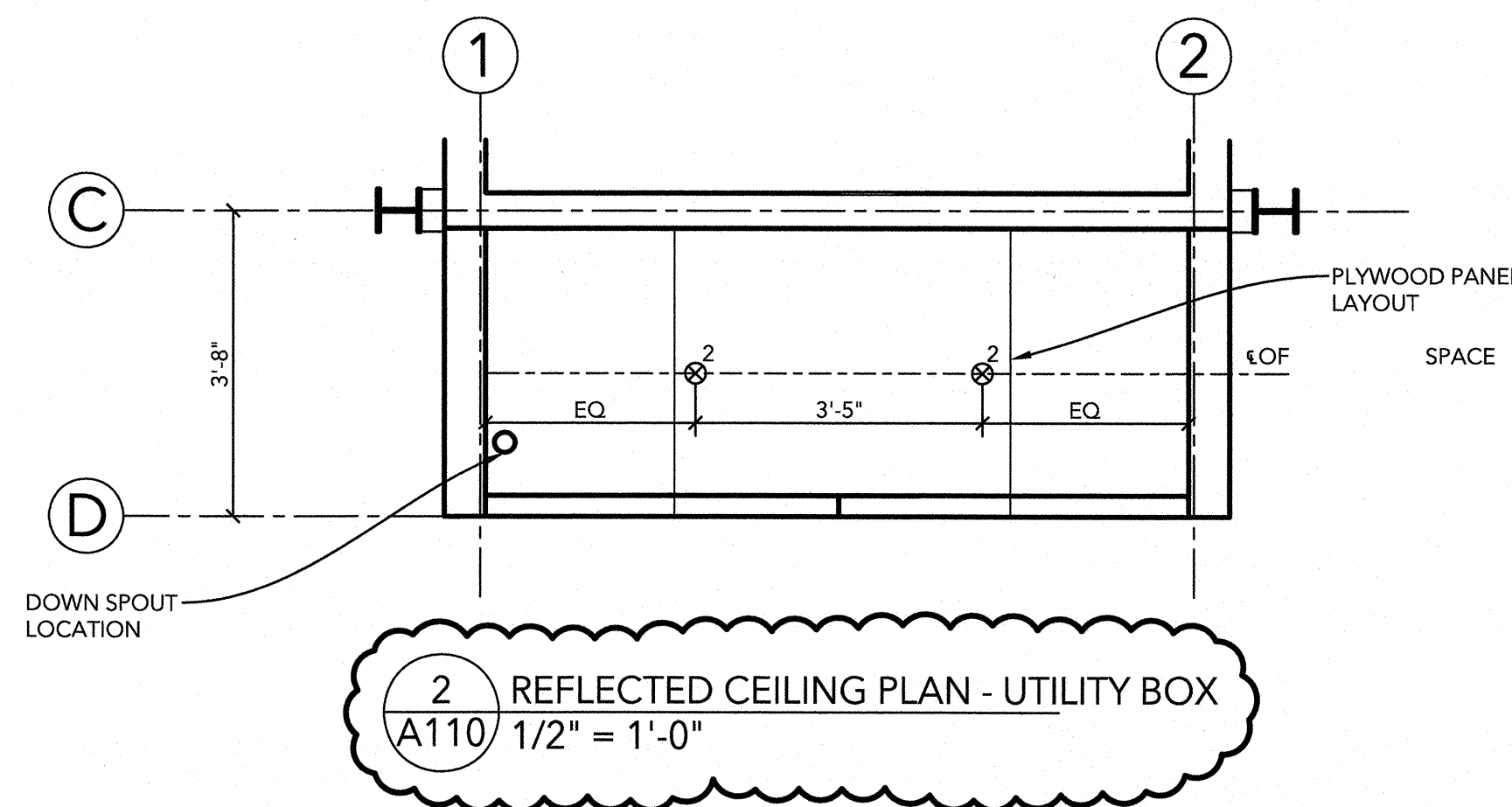
R6 CABIN

L&I INSET
 MAIN PLANS
 JUNE 15, 2018 SCALE: 1/2" = 1'-0" @ 22X34"

A100

ENERGY COMPLIANCE CERTIFICATE

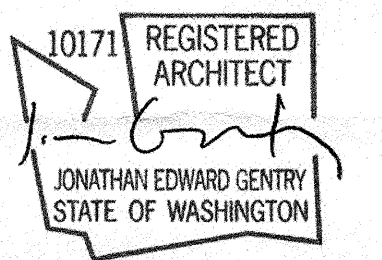
FIXTURE SCHEDULE				
SYMBOL	CABIN FIXTURES	QUANTITY	WATTS / FIXTURE	NOTES
⊗ 1	SURFACE MOUNT DOWN LIGHT	3	12W / FIXTURE	ELEMENT BY TECH LIGHTING: ENTRA 3" LED ADJUSTABLE DOWNLIGHT, ROUND, FLANGELESS BEVEL, 2700K
⊗ 2	RECESSED LED FIXTURE (INDOOR/DAMP LOCATION)	2	8.6W / FIXTURE	JUNO: 4" IC 600 LED DOWNLIGHT, BLACK BAFFLE CHROME TRIM, 2700K
⊗ 1	WALL MOUNT FIXTURE	1	8W	ASSUME MAX 8W BULB IN WALL SCNCE FIXTURE: ENVOY SWING SCNCE, SCHOOL HOUSE ELECTRIC OR BLACK STEEL WALL LAMB, ZANGRA
⊗ 2	WALL MOUNT FIXTURE	1	8.5W	RBW, CRISP - WHITE CR-S1-27-120-IP20, 2700K
⊗ EX1	EXTERIOR WALL MOUNT FIXTURE	1	7W	BK LIGHTING, EL CAPITAN, LED, MEDIUM FLOOD, BLACK, 2700K
⊗ EX2	EXTERIOR WALL MOUNT FIXTURE	4	7W	B-K LIGHTING: ARTISTAR INTEGRAL SOLID STATE (BKSSL), 2700K 7W LED, WIDE FLOOD, BLACK



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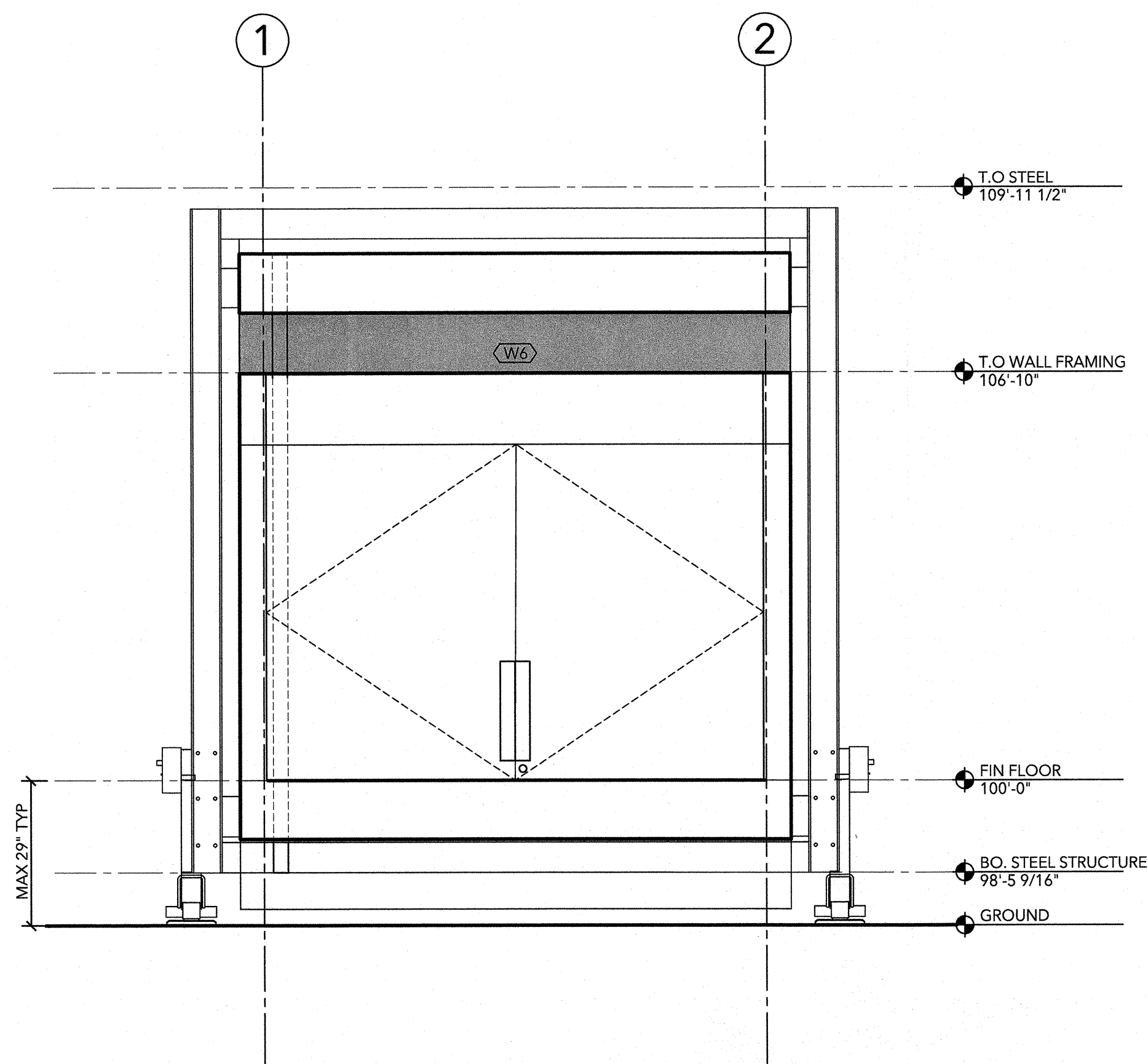
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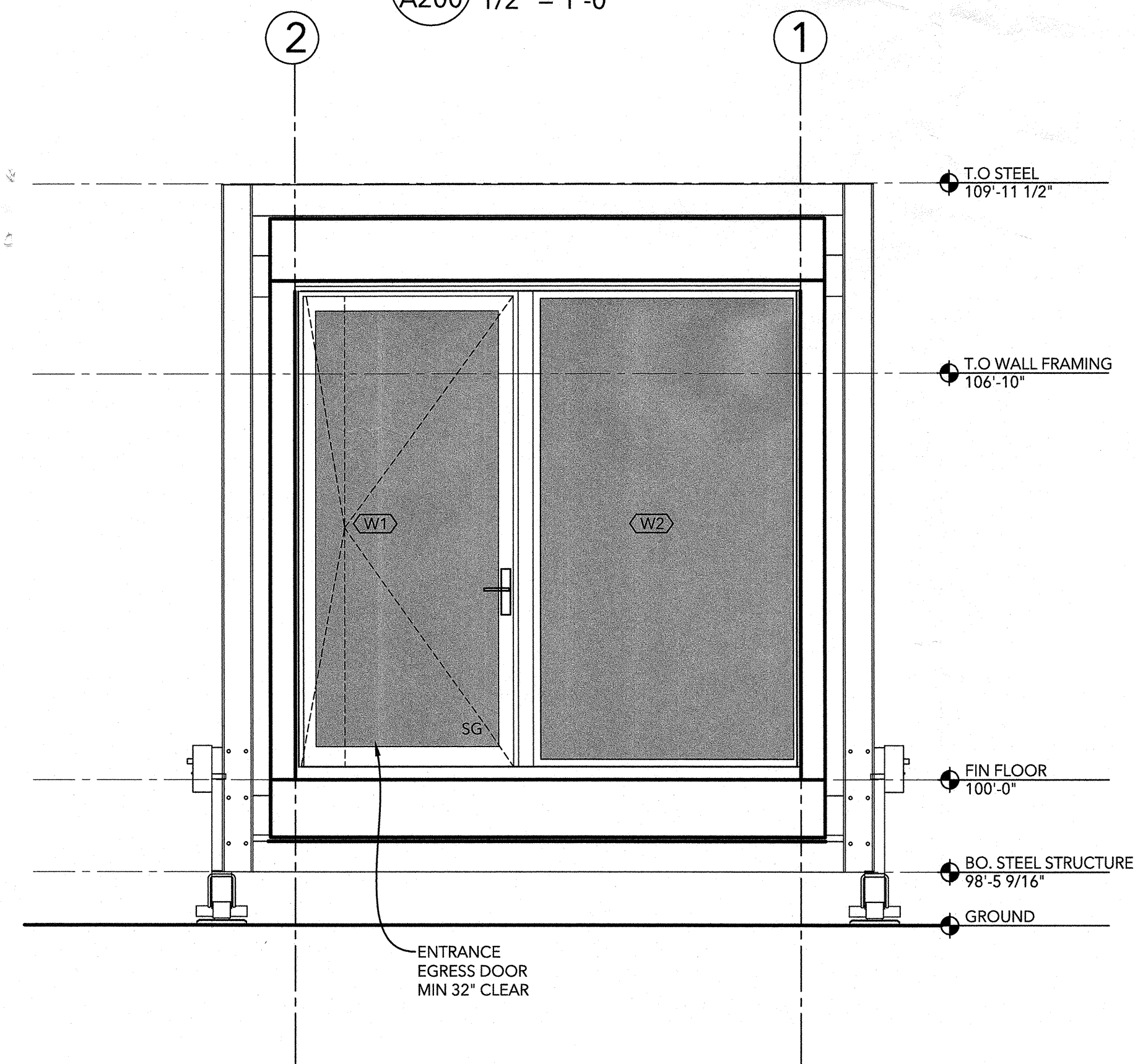
R6 CABIN

L&I PERMIT SET
REFLECTED CEILING PLAN
JUNE 15, 2018 SCALE: 1/2" = 1'-0" @ 22X34"

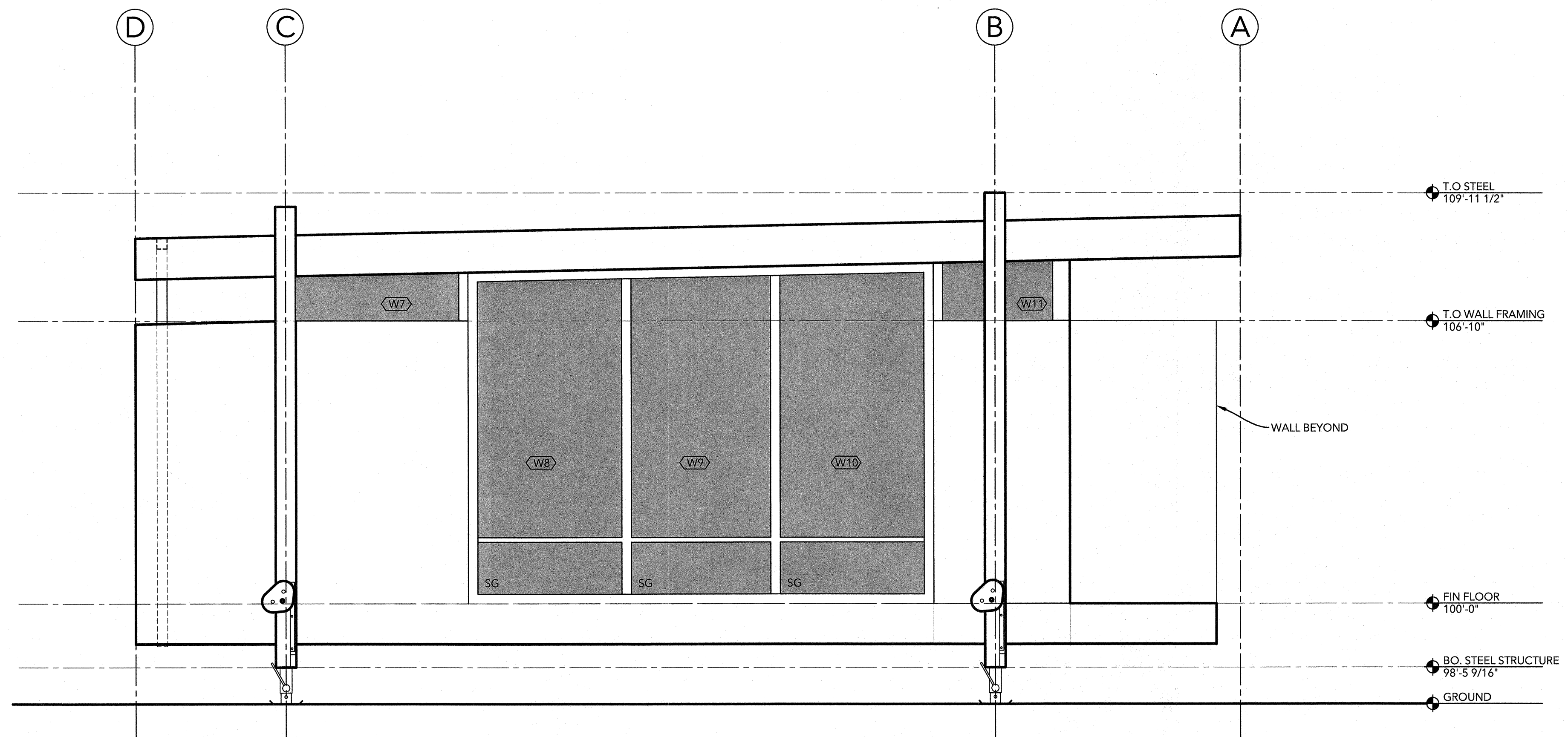
A110



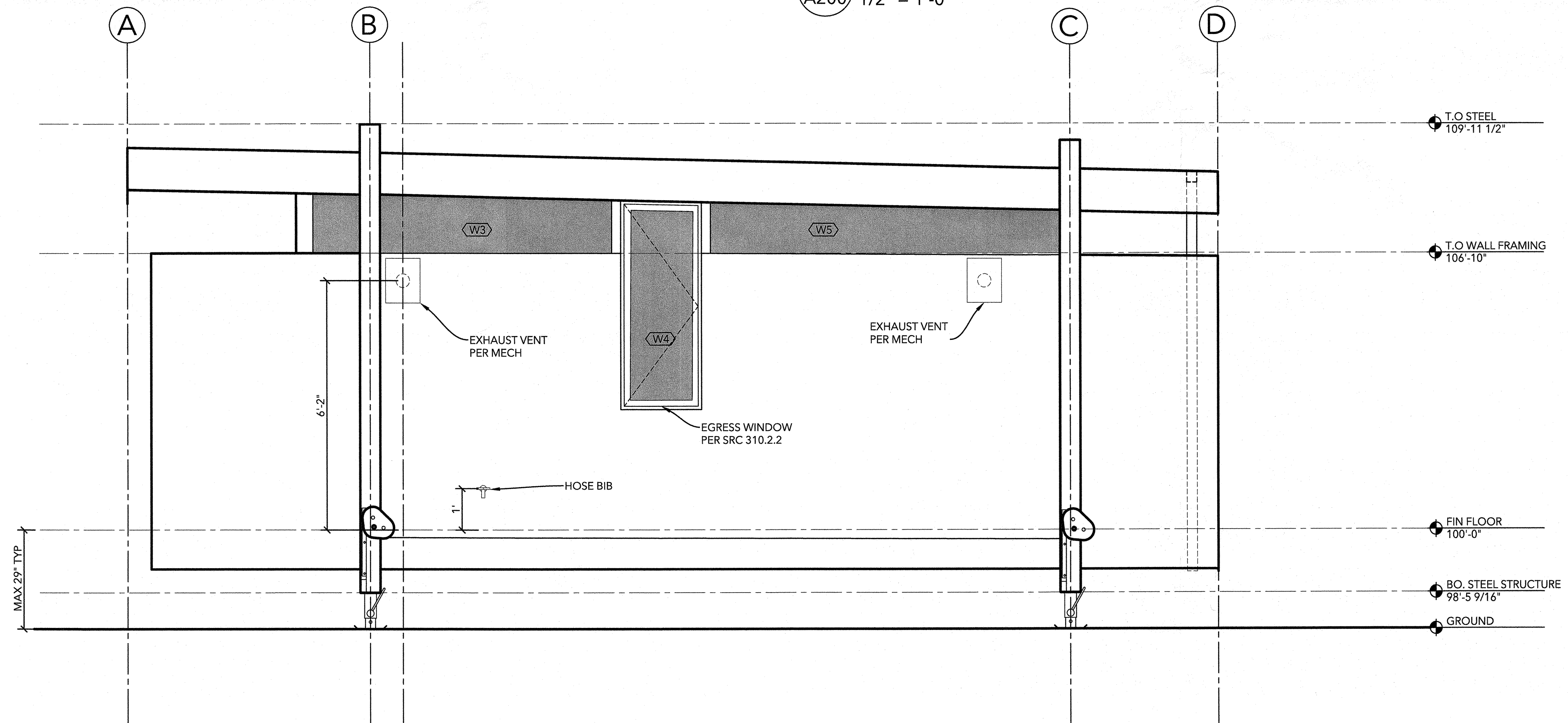
4 SOUTH ELEVATION
A200 1/2" = 1'-0"



2 NORTH ELEVATION
A200 1/2" = 1'-0"



3 EAST ELEVATION
A200 1/2" = 1'-0"

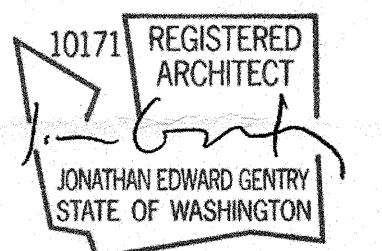


1 WEST ELEVATION
A200 1/2" = 1'-0"

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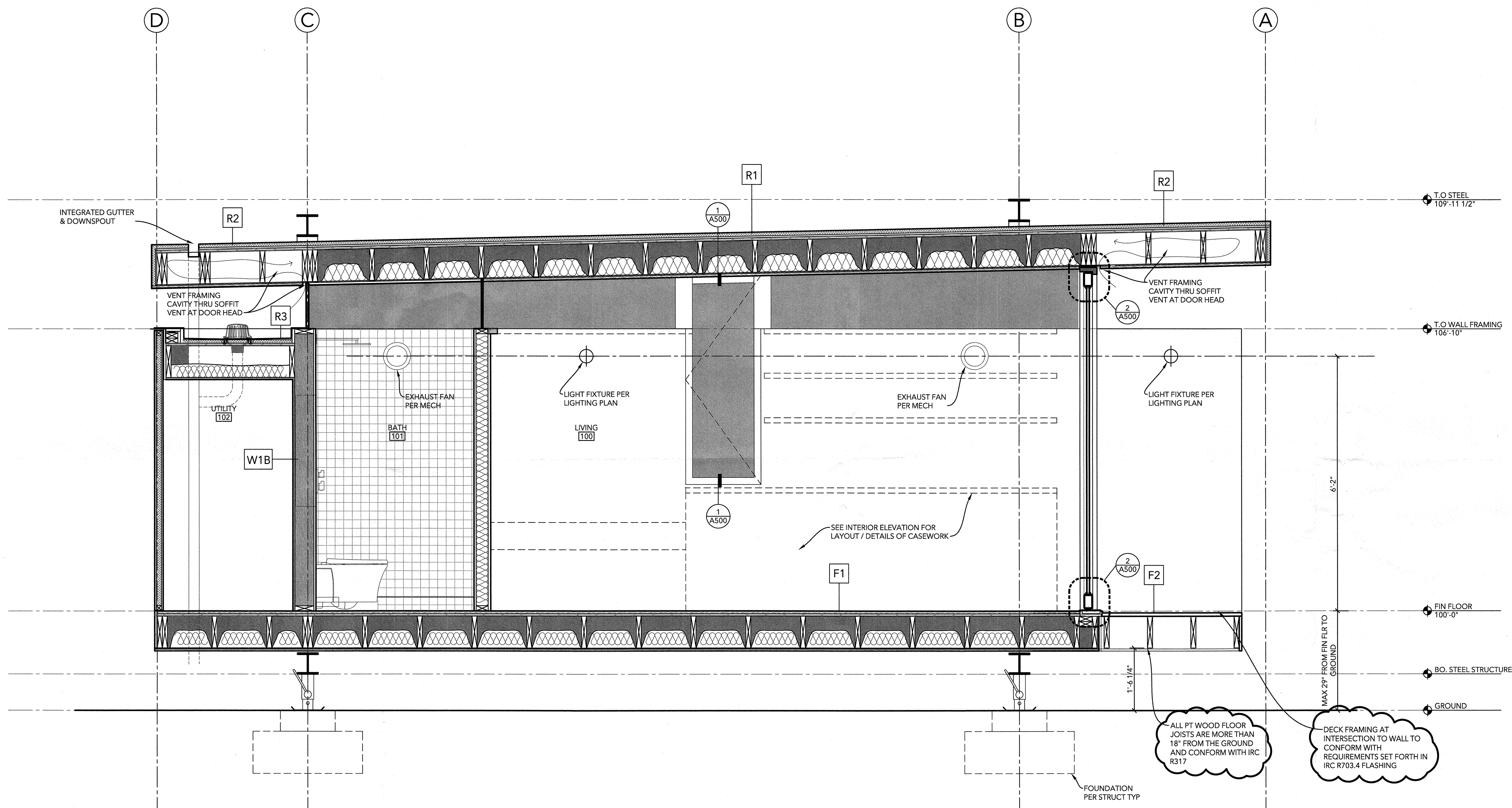
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job no	_____
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R6 CABIN

L&I PERMIT SET
EXTERIOR ELEVATIONS
JUNE 15, 2018 SCALE: 1/2" = 1'-0" @ 22X34"

A200

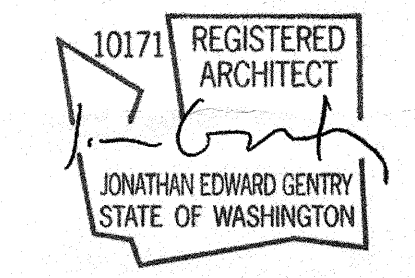


1 LONGITUDINAL SECTION
 A300 3/4" = 1'-0"

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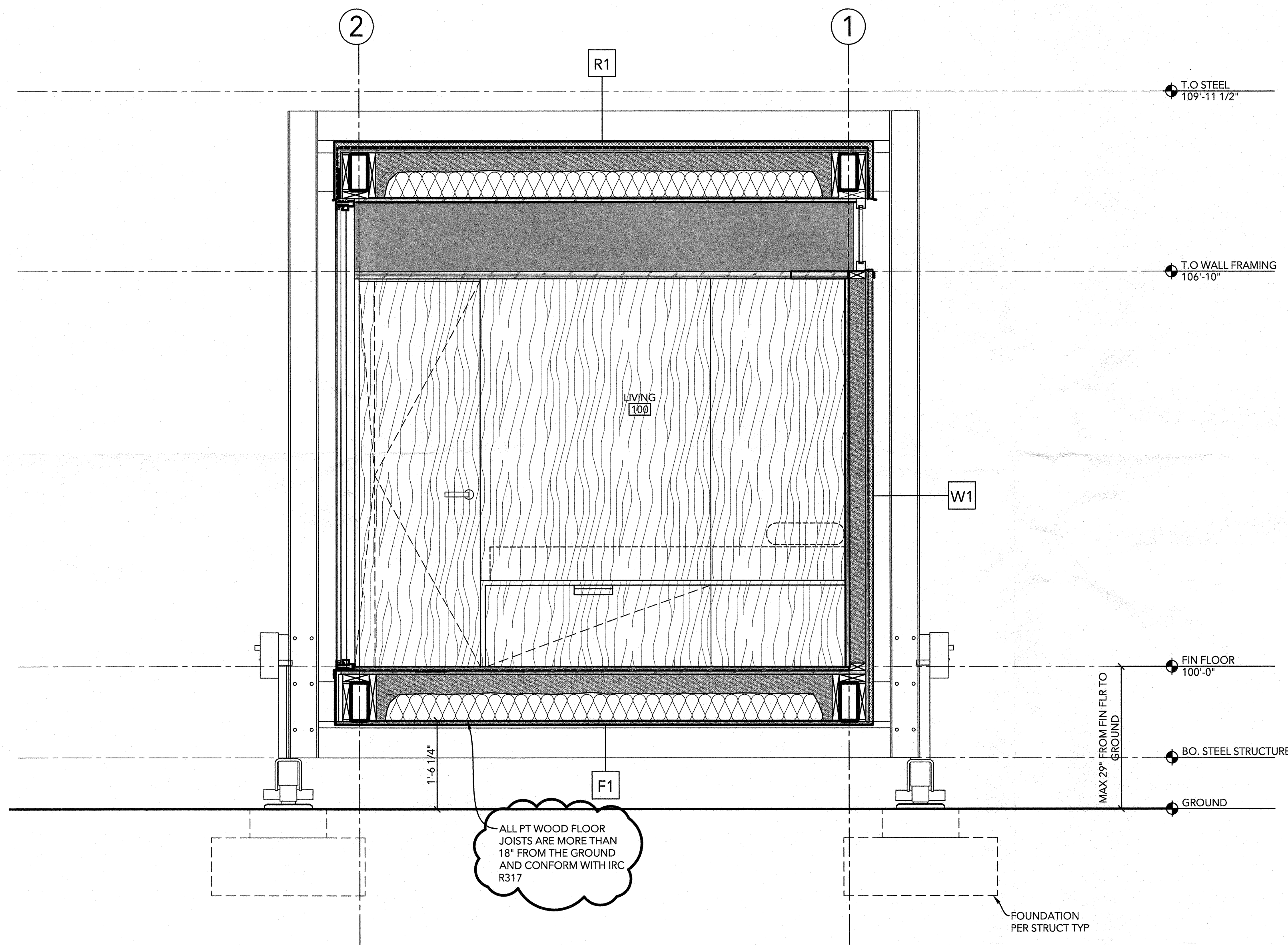
R6 CABIN

15889 CEDAR BRAE ROAD, LEAVENWORTH, WA 98826

L&I PERMIT SET
 BUILDING SECTION

JUNE 15, 2018 SCALE: 3/4" = 1'-0" @ 22X34"

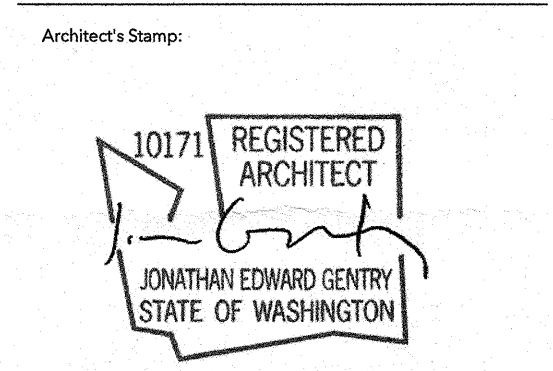
A300



1 CROSS SECTION
 A301 3/4" = 1'-0"

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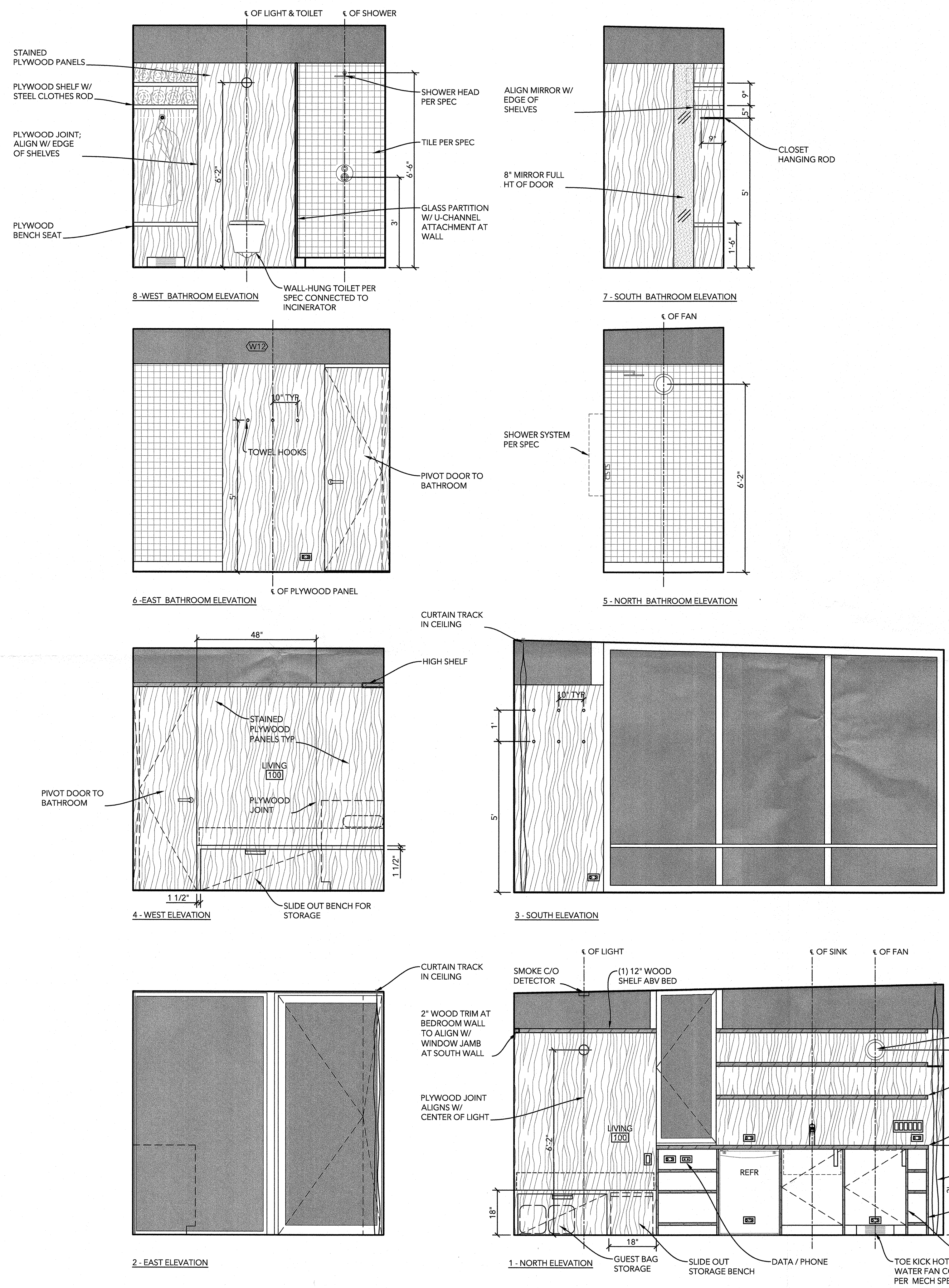
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date	_____
checked by	_____
job no	_____
revisions	REV. 1 - L&I CORRECTIONS

R6 CABIN

L&I PERMIT SET
 BUILDING SECTION
 JUNE 15, 2018 SCALE: 3/4" = 1'-0" @ 22X34"

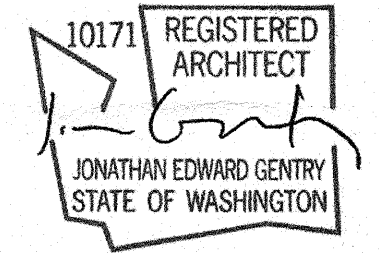
A301



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revisions
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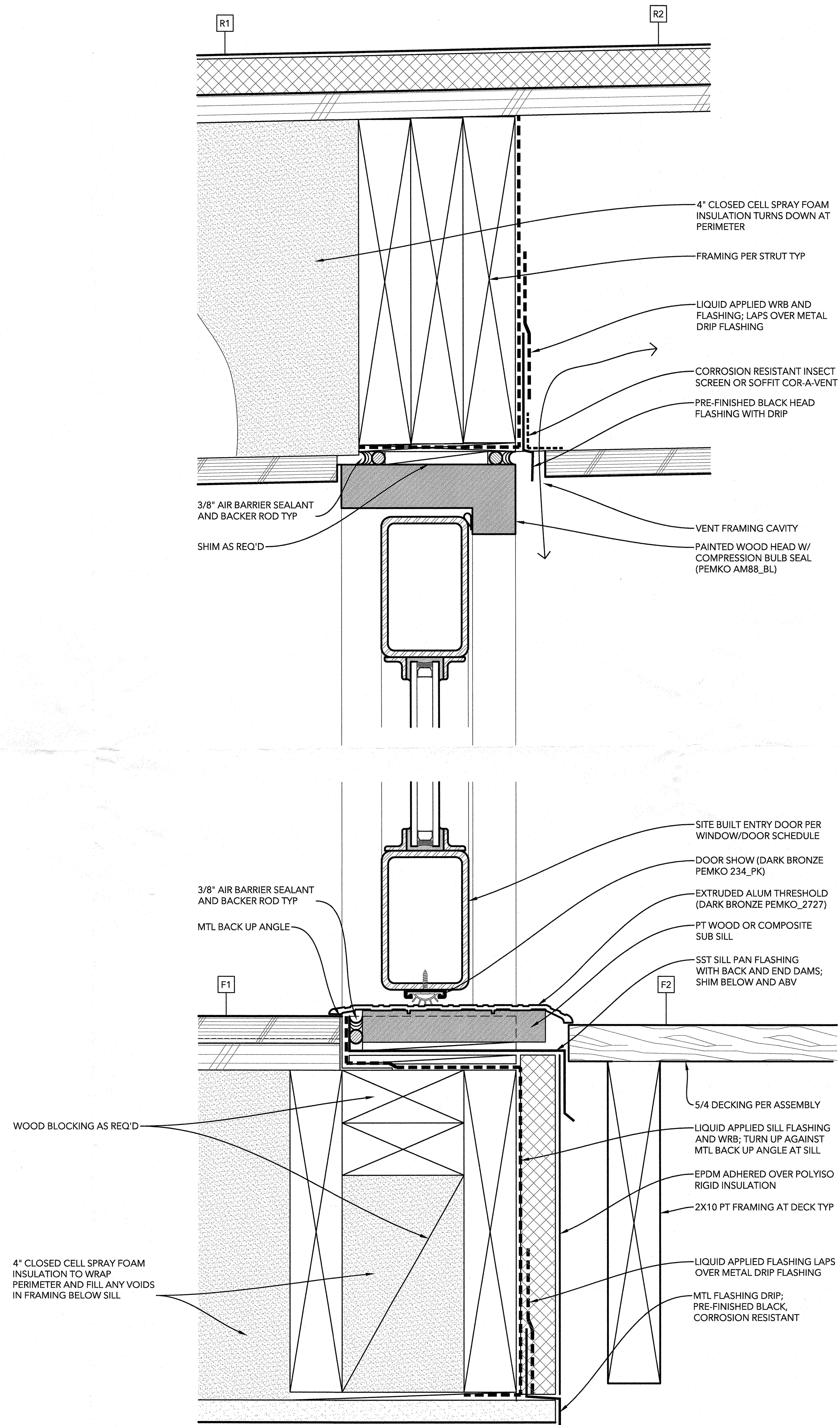
R6 CABIN

DESIGN DEVELOPMENT SET
INTERIOR ELEVATIONS
JUNE 15, 2018 SCALE: 1/2" = 1'-0" @ 22X34"

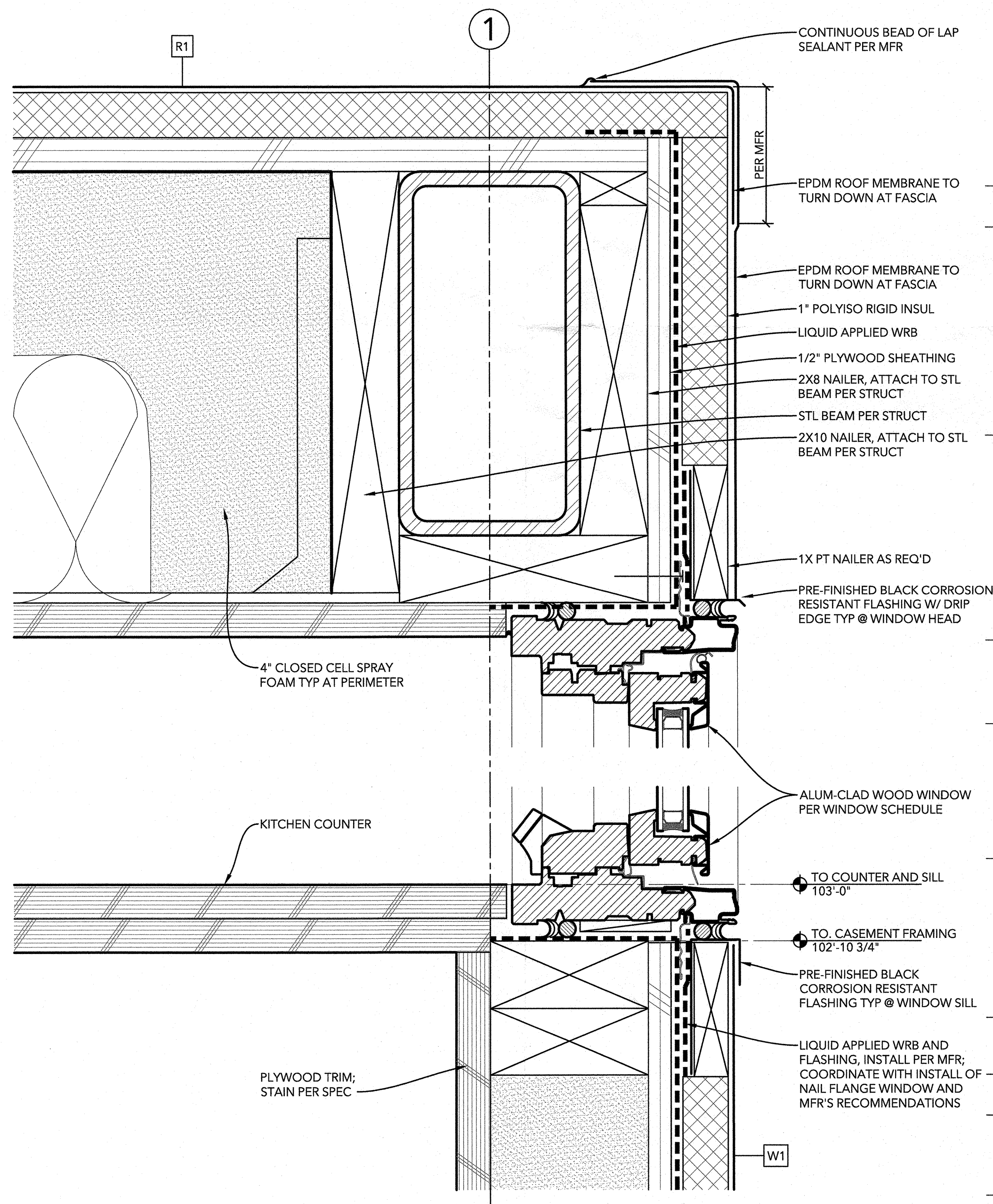
A400

GENERAL NOTES

- WINDOW AND DOOR FLASHINGS TO MEET REQUIREMENTS SET FORTH IN IRC SECTION R703.4.
- WATER-RESISTIVE BARRIER (WRB) TO MEET REQUIREMENTS SET FORTH IN IRC SECTION 703.2
- PROTECT WOOD AND WOOD-BASED PRODUCTS AGAINST DECAY PER IRC SECTION R317



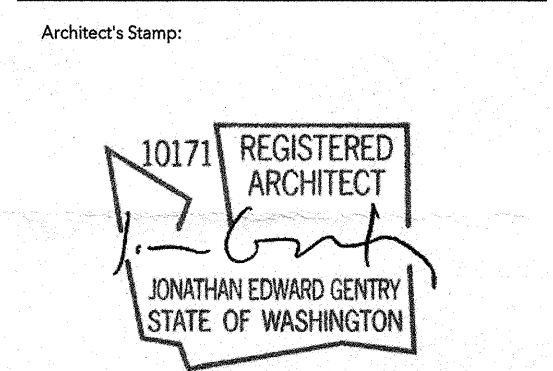
2 SILL DETAIL DOOR W11
A500 6" = 1'-0"



1 HEAD & SILL DETAIL @ W4
A500 6" = 1'-0"

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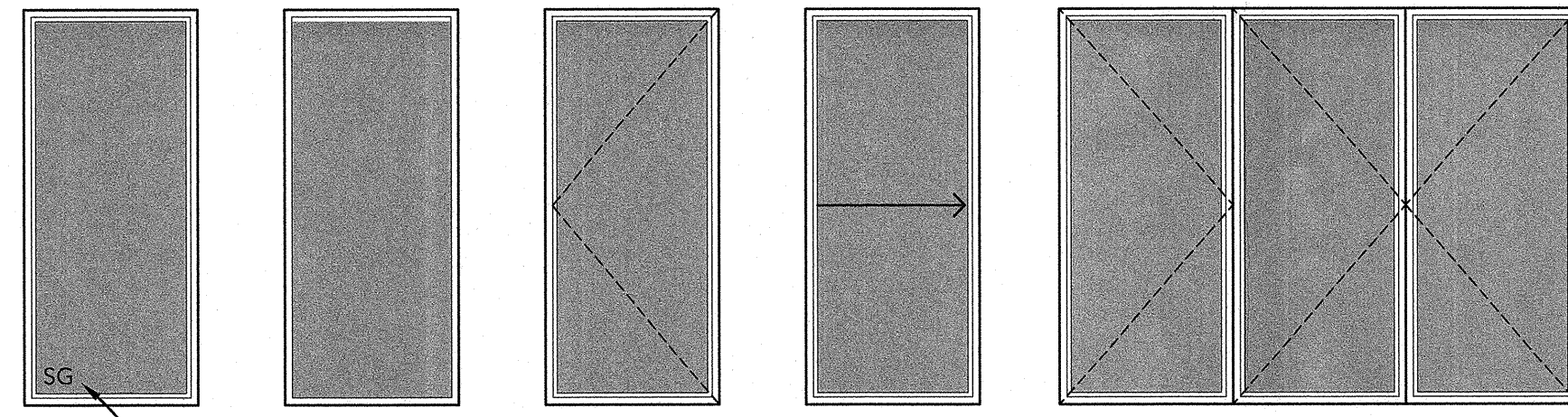
principal architect	
project manager	
drawn by	
date	
checked by	
job no	
revisions	REV 1: L&I CORRECTIONS

R6 CABIN

L&I PERMIT SET
EXTERIOR DETAILS
JUNE 15, 2018 SCALE: 1/2" = 1'-0" @ 22X34"

A500

WINDOW TYPES



INDICATES SAFETY GLAZING REQUIRED PER CODE

GENERAL NOTES

- MIN U-VALUE FOR WINDOWS/DOORS=0.30 PER WSEC
 - MIN U-VALUE FOR SKYLIGHTS=0.50 PER WSEC
 - SAFETY GLAZING PER SECTION R308.4
 - EGRESS WINDOWS
 - MIN NET CLR 5.75F, TYP
 - MIN OPENING HEIGHT 24 INCHES
 - MIN OPENING WIDTH 20"
 - SILL HEIGHT NO GREATER THAN 44"
 - OPERATIONAL FROM INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE
 - EGRESS DOORS
 - MUST HAVE AT LEAST ONE SIDE-HINGED DOOR
 - MIN CLEAR WIDTH OF 32 INCHES
 - MIN CLEAR HEIGHT NOT LESS THAN 78 INCHES
 - READILY OPENABLE FROM THE INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- *CONTRACTOR TO VERIFY ALL ROUGH OPENING SIZES BEFORE ORDERING WINDOWS.

WINDOW SCHEDULE

TYPE: FIXED (MANUFACTURED)
 U VALUE: 0.23
 NFR: PEL-N-113-00791-00001
 PELLA ARCHITECT SERIES
 CONTEMPORARY FIXED WINDOWS: **W8, W9, W10**

TYPE: CASEMENT WINDOW (MANUFACTURED)
 U VALUE: 0.25
 NFR: PEL-N-227-00020-00001
 PELLA ARCHITECT SERIES
 CONTEMPORARY FIXED WINDOWS: **W4**

TYPE: SWING DOOR (SITE BUILT)
 U VALUE: 0.42 (PER TABLE R303.1.3(5) WSEC)
 PER TABLE R303.1.3(5) SMALL BUSINESS COMPLIANCE TABLE
 DEFAULT U-FACTORS FOR VERTICAL FENESTRATION
 FRAME TYPE: ANY
 DOUBLE GLAZED (MIN AIR SPACE OF .375 INCHES)
 LOW-B W/ HIGH PERFORMANCE, ARGON = 0.46 U-VALUE
 LOW-eC (EMISSIVITY) SHALL BE 0.15 TO 0.08
 WINDOWS: **W1**

TYPE: FIXED (SITE BUILT)

U VALUE: 0.30 (PER TABLE R303.1.3(5) WSEC)
 PER TABLE R303.1.3(5) SMALL BUSINESS COMPLIANCE TABLE
 DEFAULT U-FACTORS FOR VERTICAL FENESTRATION
 FRAME TYPE: WOOD
 DOUBLE GLAZED (MIN AIR SPACE OF .375 INCHES)
 LOW-eB W/ ARGON = 0.30 U-VALUE
 LOW-eB (EMISSIVITY) SHALL BE 0.15 TO 0.08.
 WINDOWS: **W2, W3, W5, W6, W7, W11**

AREA-WEIGHTED U-VALUE TARGET

W1:	29.9 SF X 0.30	= 8.97 UA
W2:	36.8 SF X 0.30	= 11.04 UA
W3:	10.6 SF X 0.30	= 3.18 UA
W4:	10.2 SF X 0.30	= 3.06 UA
W5:	10.2 SF X 0.30	= 3.06 UA
W6:	10.0 SF X 0.30	= 3.00 UA
W7:	4.8 SF X 0.30	= 1.44 UA
W8:	30.5 SF X 0.30	= 9.15 UA
W9:	30.8 SF X 0.30	= 9.24 UA
W10:	31.1 SF X 0.30	= 9.33 UA
W11:	4.2 SF X 0.30	= 1.26 UA

TOTAL = 62.73 TARGET UA

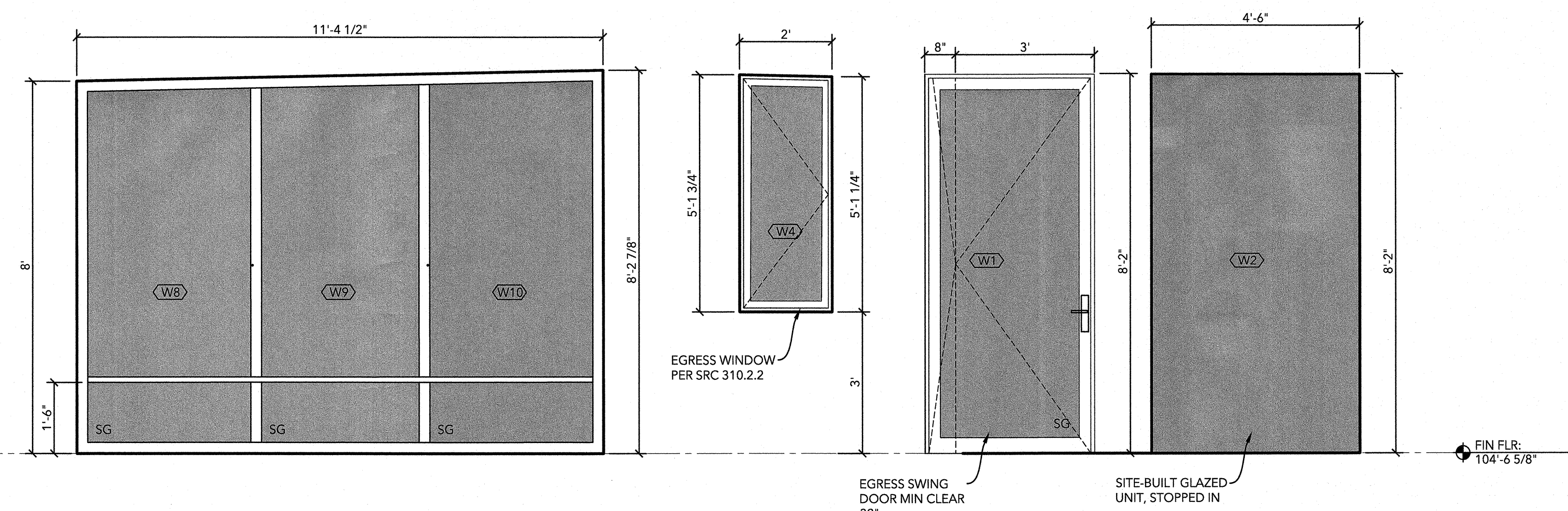
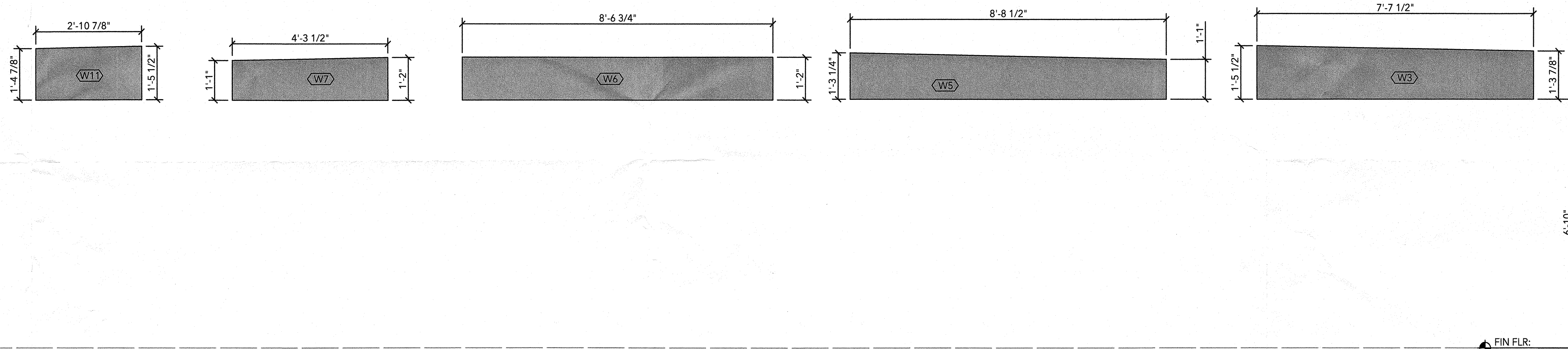
(TOTAL GLAZING AREA = 209.1 SF)

PROPOSED AREA WEIGHTED U-VALUE AVERAGE

W1:	29.9 SF X 0.46	= 13.75 UA
W2:	36.8 SF X 0.30	= 11.04 UA
W3:	10.6 SF X 0.30	= 3.18 UA
W4:	10.2 SF X 0.25	= 2.55 UA
W5:	10.2 SF X 0.30	= 3.06 UA
W6:	10.0 SF X 0.30	= 3.00 UA
W7:	4.8 SF X 0.30	= 1.44 UA
W8:	30.5 SF X 0.23	= 7.01 UA
W9:	30.8 SF X 0.23	= 7.08 UA
W10:	31.1 SF X 0.23	= 7.15 UA
W11:	4.2 SF X 0.30	= 1.26 UA

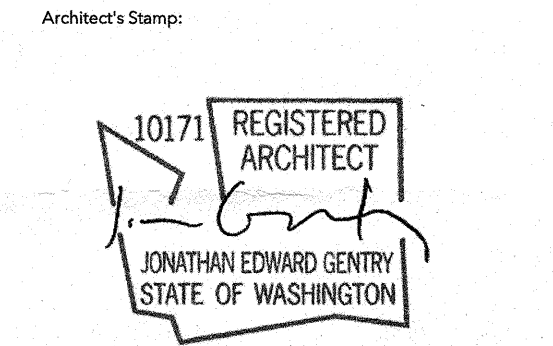
TOTAL = 60.52 TARGET UA

PROPOSED U-VALUE AVERAGE = 0.290



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principal architect	_____
project manager	_____
drawn by	_____
date	_____
checked by	_____
job no	_____
revisions	REV. 1 - L&I CORRECTIONS

R6 CABIN

L&I PERMIT SET
 WINDOW & DOOR SCHEDULE
 JUNE 15, 2018 SCALE: 1/2" = 1'-0"

GENERAL

- CONTRACTOR SHALL ADVISE ARCHITECT/DESIGNER AND OWNER IN WRITING OF ALL CHANGES TO THE FOLLOWING NOTES AND SPECIFICATIONS AND SHALL SUBMIT WRITTEN CONFIRMATION TO ARCHITECT/DESIGNER OF ANY CHANGES AND RECEIVE ARCHITECT/DESIGNER'S WRITTEN APPROVAL PRIOR TO ORDERING OR INSTALLATION.
- THE WORD "CONTRACTOR" MEANS THE GENERAL CONTRACTOR AND, WHERE APPLICABLE, SUBCONTRACTORS.
- ALL CONSTRUCTION AND DETAILS SHALL BE COMPLETED IN FULL COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REQUIREMENTS, INCLUDING CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND TITLE 24 ENERGY REQUIREMENTS (CALIFORNIA ONLY).
- PRIOR TO FINALIZING CONTRACT PRICES, CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING ALL NOTES AND DRAWINGS TO INCLUDE ANY SUBCONTRACT REQUIREMENTS OR INFORMATION WHICH MAY NOT BE INDICATED ON SUBCONTRACTOR'S SHEETS OR NOTES, BUT WHICH ARE INDICATED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANING OR INTENT, THE CONTRACTOR SHALL NOTIFY ARCHITECT/DESIGNER FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THE CONTRACTOR FAIL TO DO SO BEFORE SUBMITTING A PROPOSAL, THE CONTRACTOR CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.
- THE CONTRACTOR SHALL REIMBURSE ARCHITECT/DESIGNER FOR LABOR AND OTHER COSTS INVOLVED IN PROVIDING, RESEARCH, ADDITIONAL DRAWINGS, DETAILS, OR ENGINEERING TO REVIEW SUBSTITUTIONS OR TO ADJUST THE DESIGN OR CONSTRUCTION DOCUMENTS DUE TO ERRORS, CHANGES, OR SUBSTITUTIONS MADE BY CONTRACTORS DURING CONSTRUCTION. SUCH REIMBURSEMENTS SHALL NOT BE INCLUDED IN THE PROJECT CONSTRUCTION COST AND SHALL BE PAID BY THE CONTRACTOR WITHOUT REIMBURSEMENT FROM THE OWNER.
- CONTRACTOR SHALL REVIEW ALL ITEMS NOTED "VERIFY OR CONFIRM WITH OWNER OR ARCHITECT/DESIGNER" WHICH MIGHT AFFECT COSTS PRIOR TO FINALIZING CONSTRUCTION CONTRACT AND SUBCONTRACTS, AND SHALL CONFIRM FINAL DECISIONS REGARDING SELECTION, MATERIALS, COLOR, FINISH OR OTHER SPECIFICATIONS NOT YET DECIDED REGARDING THESE ITEMS. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS WITHIN THE ORIGINAL CONTRACT PRICE.
- UNLESS ITEMS ARE SPECIFICALLY ITEMIZED AS NOT INCLUDED IN CONTRACT (N/C), THEY WILL BE ASSUMED TO BE INCLUDED IN THE ESTIMATE OR CONTRACT PRICE.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY EXTRA COSTS ARISING FROM THE EXECUTION OF HIS CONTRACT OR SUBCONTRACTS AND SHALL RECEIVE OWNER'S WRITTEN APPROVAL OF SAME PRIOR TO DOING THE WORK.
- UNLESS OTHER ARRANGEMENTS ARE MADE, OWNER SHALL PROVIDE ADEQUATE PROPERTY AND LIABILITY INSURANCE IN ADDITION TO CONTRACTOR'S INSURANCE TO COVER ALL NEW WORK. THIS INSURANCE SHALL INCLUDE THE INTERESTS OF THE OWNER AND CONTRACTOR IN THE WORK, BUT SHALL NOT RELIEVE CONTRACTOR OF THEIR RESPONSIBILITIES UNDER THE CONTRACT OR AS ITEMIZED ABOVE.
- THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ARCHITECT/DESIGNER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE DESIGNER.
- WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. IF THERE IS A CONFLICT, NOTIFY ARCHITECT/DESIGNER AND OBTAIN A CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING WRITTEN APPROVAL FROM THE ARCHITECT/DESIGNER.

STRUCTURAL STEEL

STRUCTURAL STEEL GRADES:	ASTM A36, Fy= 36,000 PSI
STEEL PLATES AND ANGLES:	ASTM A572, Fy=50,000 PSI
WIDE FLANGE:	ASTM A572 GRADE B, Fy=50,000 PSI
HSS MEMBERS:	ASTM A572 GRADE B, Fy=50,000 PSI
STEEL PIPE:	ASTM A53 GRADE B, Fy=35,000 PSI
ANCHOR BOLTS AND RODS:	ASTM F1554 GRADE 36
BOLTS:	ASTM A325 HIGH STRENGTH BOLTS

DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.I.S.C. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL STRUCTURAL STEEL AFTER FABRICATION SHALL RECEIVE (1) SHOP COAT OF AN APPROVED PRIMER AND (2) FRESH COAT AFTER ERECTION. COLOR AND PAINT IN ACCORDANCE WITH OWNERS INSTRUCTIONS.

FIELD BURNING OF HOLES IS NOT ALLOWED WITHOUT INSPECTION BY ENGINEER.

PROVIDE WASHERS ON ALL BOLTED CONNECTIONS.

ALL EXTERIOR STEEL SHALL BE GALVANIZED, OR TREATED WITH AN EQUIVALENT CORROSION RESISTANT SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION BRACING, STABILITY AND SEQUENCING OF STEEL CONSTRUCTION.

WOOD TOP NAILERS ON WIDE FLANGE MEMBERS SHALL BE DF#1, OR BETTER, AND ATTACHED TO THE FLANGE WITH AN APPROVED POWDER ACTUATED OR BOLTING SYSTEM.

WELDS:

ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF THE A.W.S. D1.1 "STRUCTURAL WELDING CODE". ALL WELDS SHALL BE 3/16" MINIMUM UNLESS OTHERWISE NOTED. WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL-ARC WELDING OR EQUAL ELECTRODE FOR OTHER WELDING PROCESSES. WELDED JOINTS SHALL CONFORM TO A.I.S.C. PREQUALIFIED JOINT DETAILS FOR WELDED CONSTRUCTION. ALL WELDING SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS.

SPECIAL INSPECTIONS:

AN INDEPENDENT TESTING LAB APPROVED BY THE ARCHITECT SHALL INSPECT CONCRETE, REBAR, MASONRY AND WELDING AS FOLLOWS (UNLESS MORE STRINGENT REQUIREMENTS APPEAR IN THE ARCHITECTURAL SPECIFICATIONS):

CONCRETE: INSPECT REBAR PLACEMENT PRIOR TO POURING. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE NOR LESS THAN ONCE FOR EACH 5000 SQ. FT. OF SURFACE AREA FOR SLABS OR WALLS. TAKE 3 CYLINDERS FOR EACH TEST. TEST CYLINDERS AT 7 AND 28 DAYS AND 90 DAYS. HOLD 3RD CYLINDER FOR FURTHER TESTING, IF REQUIRED. PROVIDE 4 CYLINDERS MINIMUM FROM EACH DAY'S POUR SLUMP, AIR CONTENT AND TEMPERATURE TESTS MUST BE PERFORMED WITH EACH SET OF COMPRESSION TEST CYLINDERS. SEE ASTM E-1155 FOR FLATNESS TESTING OF CONCRETE SLAB.

ANCHOR BOLTS: INSPECT PLACEMENT PRIOR TO POURING CONCRETE.

EXPANSION BOLTS: PROVED TORQUE TESTING PER MANUFACTURER SPECIFICATIONS FOR ALL EXPANSION BOLTS. VERIFY SPECIFIED LENGTH AND DIAMETER OF BOLTS.

WELDING: FOR SINGLE PASS WELDS 1/8" INCH OR LESS CHECK QUALIFICATIONS OF WELDERS AND THE WELDING PROCEDURES TO BE USED AT THE START OF WORK. MAKE PERIODIC INSPECTIONS OF WORK IN PROGRESS AND MAKE VISUAL INSPECTION OF ALL FIELD WELDING. CONTINUOUS INSPECTION IS REQUIRED FOR WELD EXCEEDING 1/8" INCH. THESE INSPECTIONS MAY BE OMITTED FOR SHOP FABRICATION IF THE SHOP IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.

DESIGN CRITERIA

Code:	2015 IBC / ASCE 7-10	Soil:	Site Class "D" (Assumed)
Wind:	110 mph	Allowable Bearing:	2000 pcf
Exposure:	C	Passive Pressure:	300 pcf
K ₁ :	1.00	Active Pressure:	35 pcf (unrestrained)
Seismic Zone:	Design Category D	F ₁ :	80 pcf (restrained)
		F ₂ :	(φ) 0.35
Snow Load:	135 pcf LL		
Roof:	20 pcf DL		
Floor:	40 pcf LL		
	100 pcf DL		

R6 CABIN - STRUCTURAL STEEL FRAME



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R6 CABIN - STRUCTURAL STEEL FRAME

REV	SHEET	DESCRIPTION	DATE
1	1	ADDED DESIGN CRITERIA	6/11/2018
	1	ADDED STRUCTURAL STEEL, WELDS, AND SPECIAL INSPECTION NOTES	
	2	UPDATED BACKGROUNDS	
	6-8	ADDED CERTIFICATIONS AND ENGINEERING DOCUMENTATION	

ITEM	ITEM QTY	DESCRIPTION	CONNECTION	SPECIAL NOTES	MATERIAL	FINISH	VENDOR	STOCK NUMBER	Date	Description	By
1	2	W6x20	BOLTED TO 9 (REFER TO JACK POSITIONS ON SHEET 4)	MODIFY AS SHOWN FOR JACK CLEARANCES	Steel, Mild				02/28/2018	100% CDS	JCK
2	2	W6x20	BOLTED TO 9 (REFER TO JACK POSITIONS ON SHEET 4)	MODIFY AS SHOWN FOR JACK CLEARANCES	Steel, Mild				06/11/18	100% CDS R.1	JCK
3	4	W6x20	WELD TO 1 & 2		Steel, Mild						
4	2	HSS 8x4x5/16	WELD TO 5		Steel, Mild						
5	8	HSS 8x4x5/16	WELD TO 1 & 2		Steel, Mild						
6	2	HSS 8x4x5/16	WELD TO 5		Steel, Mild						
7	56	PL 3/8	WELD TO 1 & 2		Steel, Mild						
8	4	25,000 LBS DROP LEG JACK	ANCHORED TO FOOTING VIA (20)	PURCHASE ONE FOR TESTING PRIOR TO FULL ORDER. REVIEW TO SEE IF DROP LEG HANDLE CAN BE REVERSED AND STUB SHAFT IN BACK CAN BE CUT-OFF			BULLDOG	183750			
9	4	PL 1	WELD TO 8 PER JACK MOUNTING INSTRUCTIONS		Steel, Mild						
10	24	5/8-11 HEX HEAD CAP SCREW			Steel, Mild						
11	24	5/8 HELICAL LOCK WASHER			Steel, Mild						
12	4	REMOVABLE JACK CRANK	PINNED TO (8) W/ HARDWARE PROVIDED	REMOVE FOR TRANSPORT IF NEC.	Steel, Mild		BULLDOG	015181			
13	8	WELD-ON TIE DOWN EYES	WELD TO 3	VERIFY ANGLE WITH TIE-DOWN POINTS ON TRAILER PRIOR TO WELDING	Steel, Mild		MCMaster-CARR	3024T260			
14	4	CONCRETE FOOTING			Concrete, Cast-in-Place, Gray						
15	32				Steel						
16	4				Generic						
17	16				Steel						
20	8	TITEN HD CONCRETE ANCHOR	ANCHORS (8) INTO (14)		Stainless steel		SIMPSON	THD62612HSS			

Date	Description	By
02/28/2018	100% CDS	JCK
06/11/18	100% CDS R.1	JCK

100% CONSTRUCTION DOCUMENTS (ONLY W/ ENGINEER'S STAMP PRESENT IN TITLEBLOCK)

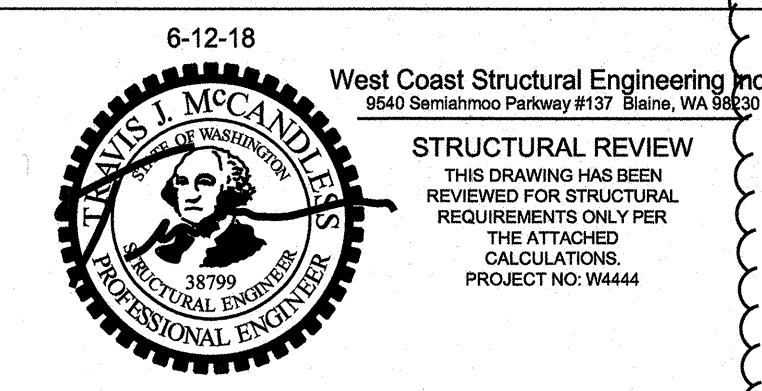
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Proj. No. - 17.067

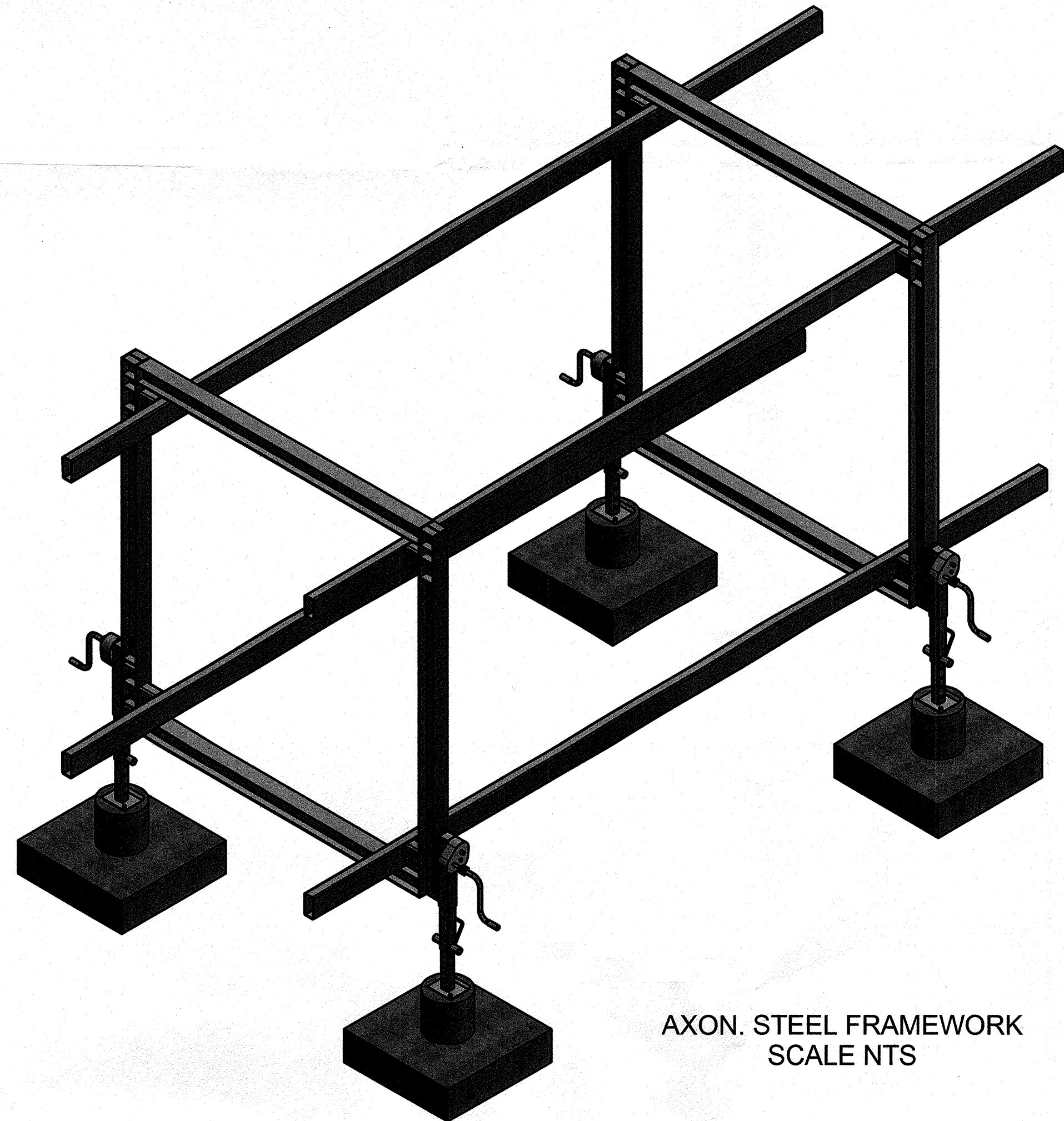
NOTES

Principal DESIGNER J. Kramp
 Date 2/28/2018
 Drawn By J. KRAMP
 Checked By

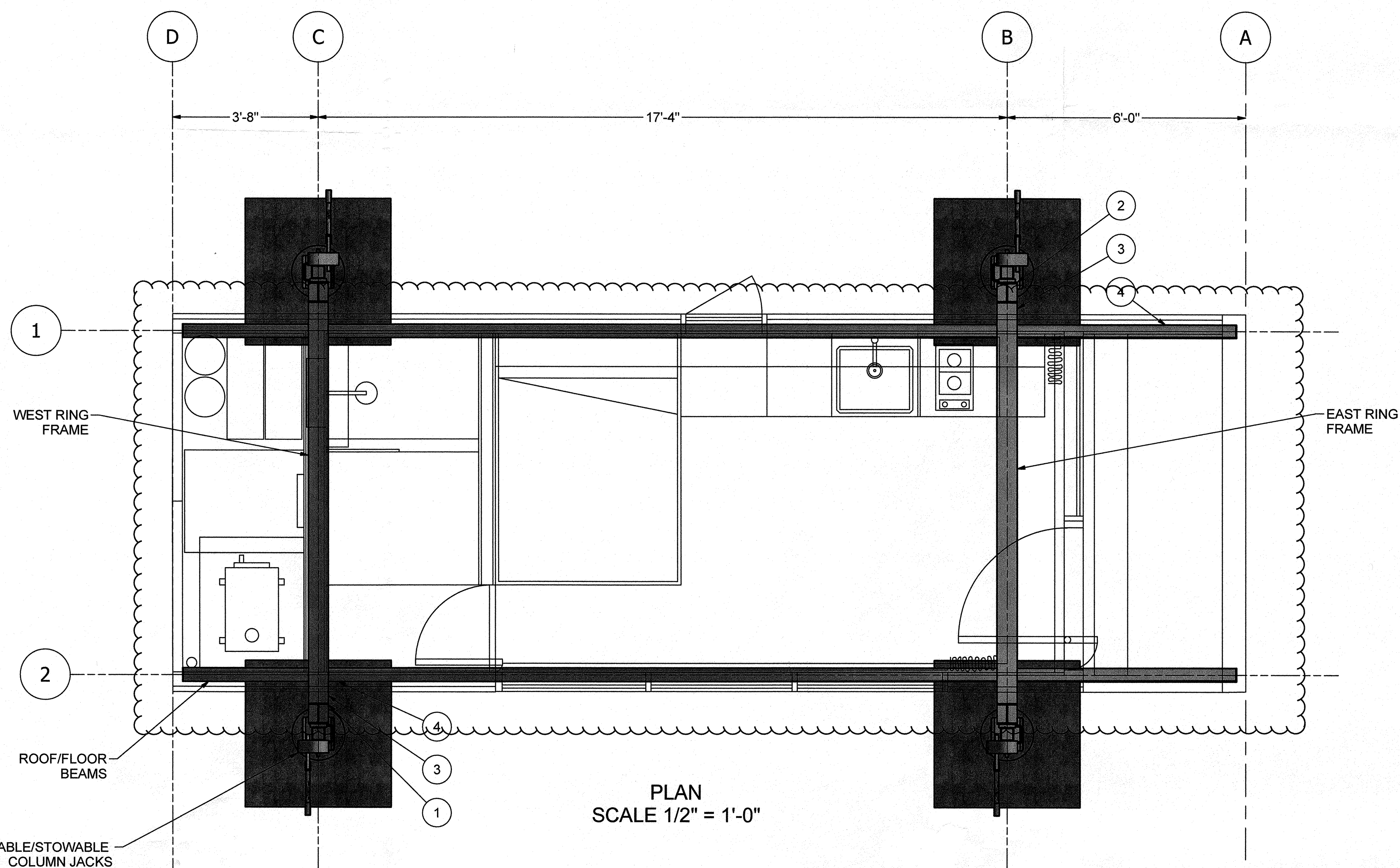
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 DATE OF REVISION: 03/20/18
 NO. OF SHEETS: 8
 SHEET NO.: 1



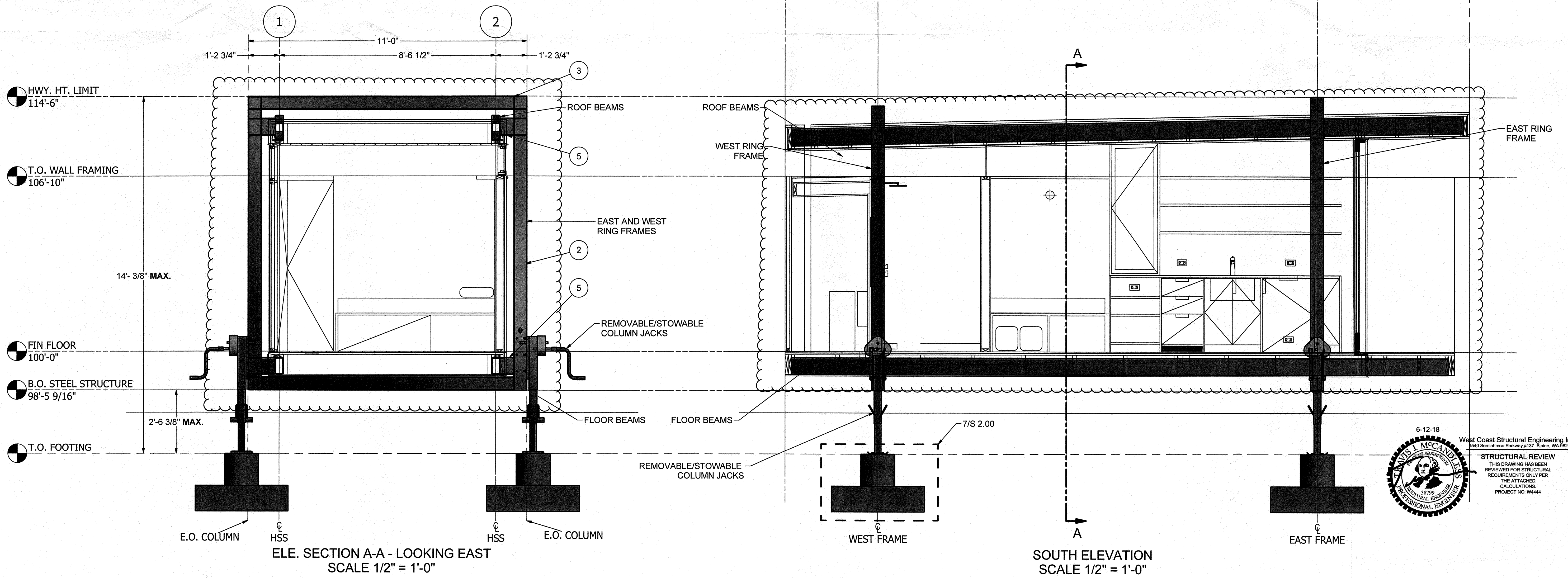
Sheet	Description
1	NOTES & PARTS LIST
2	PROJECT PLAN AND ELEVATIONS
3	FRAME DETAILS
4	JACK DETAILS
5	FRAMING PLAN
6	STRUCTURAL SECTIONS AND DETAILS
7	CERTIFICATIONS AND ENGINEERING DOCUMENTATION
8	ENGINEERING DOCUMENTATION



AXON. STEEL FRAMEWORK
SCALE NTS



PLAN
SCALE 1/2" = 1'-0"



ELE. SECTION A-A - LOOKING EAST
SCALE 1/2" = 1'-0"

SOUTH ELEVATION
SCALE 1/2" = 1'-0"

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R6 CABIN - STRUCTURAL
STEEL FRAME

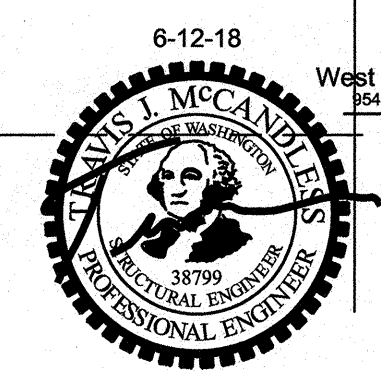
Date	Description	By
02/28/2018	100% CDS	JCK
06/11/18	100% CDS R.1	JCK

100% CONSTRUCTION DOCUMENTS (ONLY W/ ENGINEER'S STAMP PRESENT IN TITLEBLOCK)

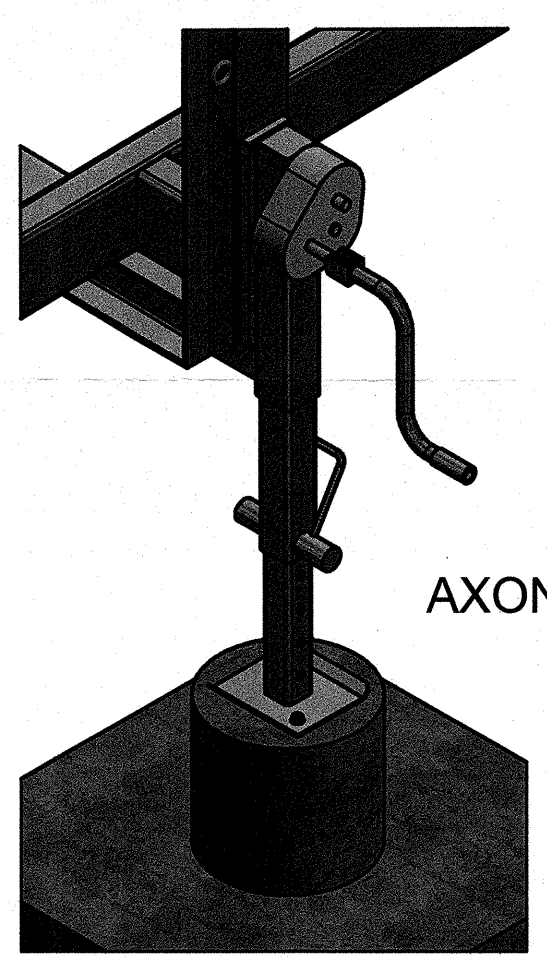
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Proj. No. - 17.067

ELEVATIONS & PLAN VIEWS

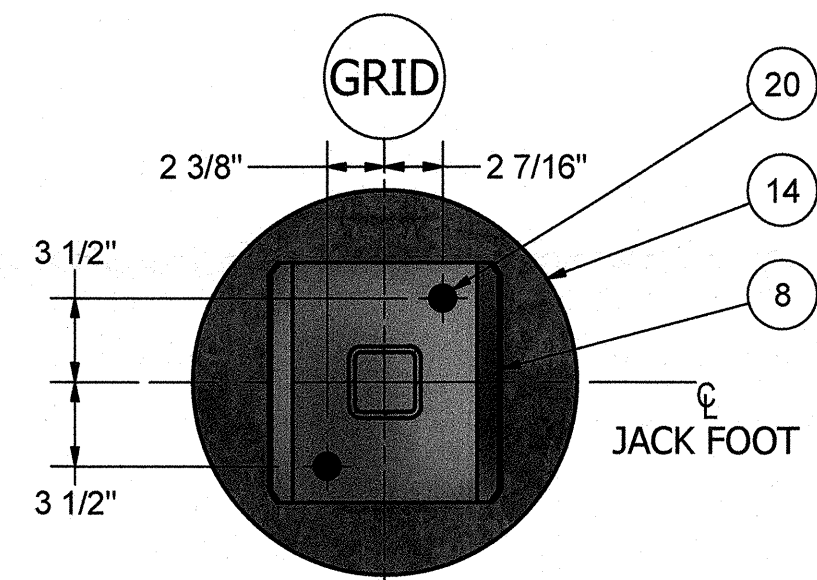
Principal DESIGNER	J. Kramp
Date	2/28/2018
Drawn By	J. KRAMP
Checked By	



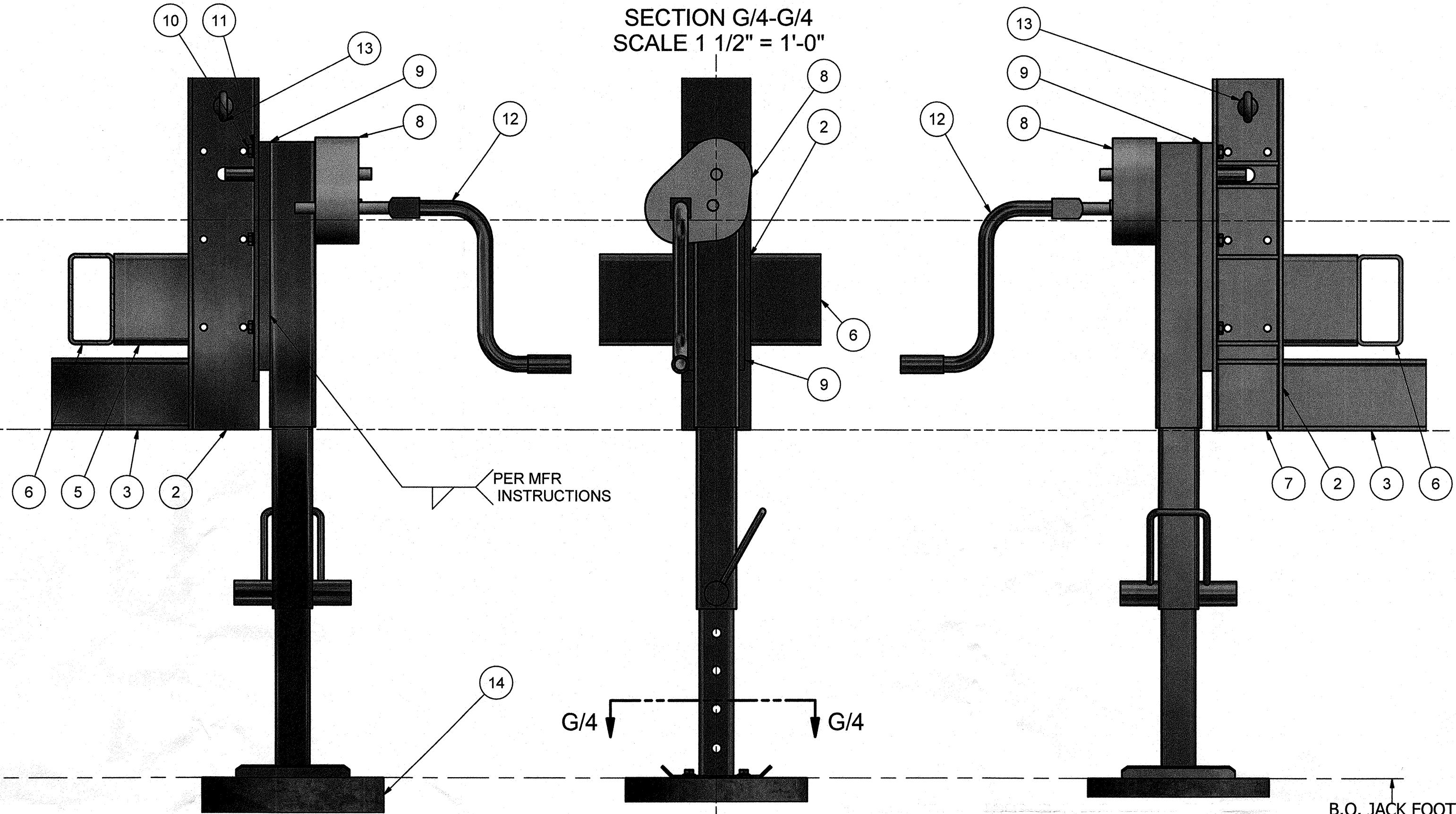
West Coast Structural Engineering Inc.
2540 Semiahmoo Parkway #137 Blaine, WA 98230
6-12-18
STRUCTURAL REVIEW
THIS DRAWING HAS BEEN REVIEWED FOR STRUCTURAL REQUIREMENTS ONLY PER THE ATTACHED CALCULATIONS. PROJECT NO. W4444



AXON. - JACK DEPLOYED
SCALE - NTS



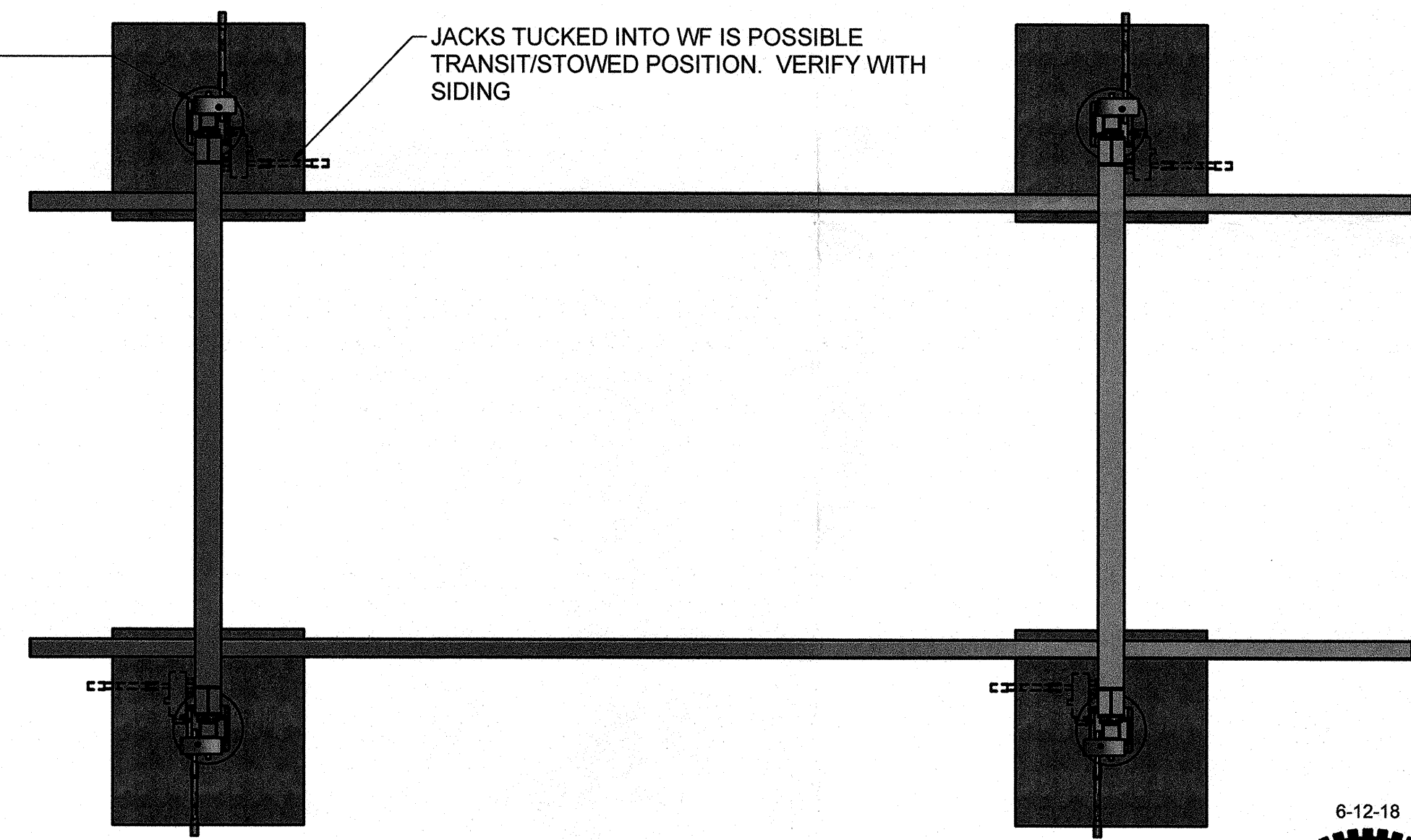
SECTION G/4-G/4
SCALE 1 1/2" = 1'-0"



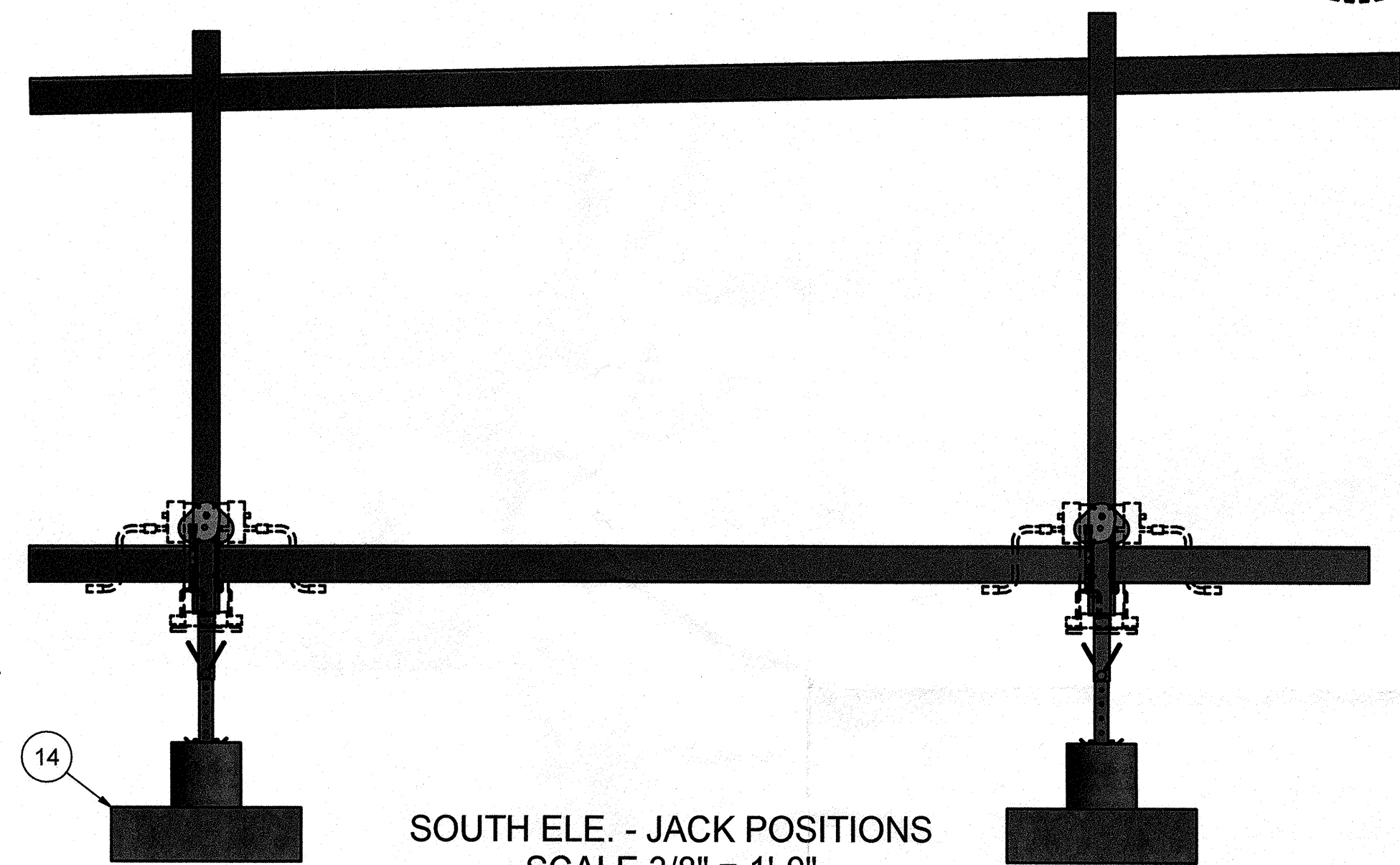
SECTION F/4-F/4
SCALE 1 1/2" = 1'-0"

SOUTH ELE. - SEC. F/4
SCALE 1 1/2" = 1'-0"

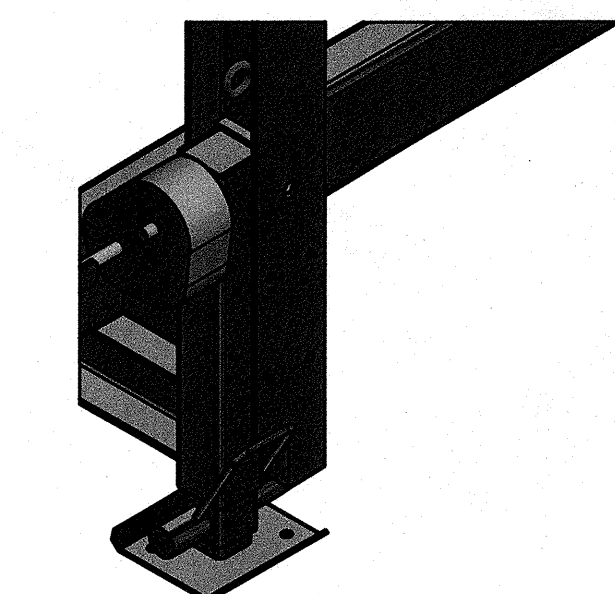
WEST ELE. - SEC. F/4
SCALE 1 1/2" = 1'-0"



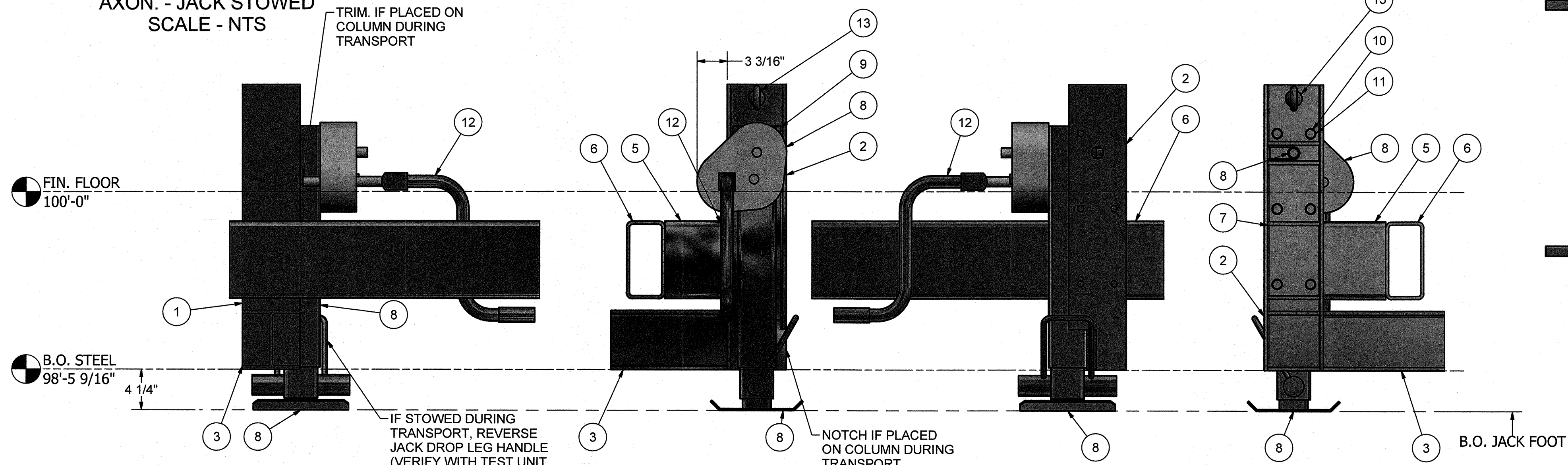
PLAN VIEW - JACK POSITIONS
SCALE 3/8" = 1'-0"



SOUTH ELE. - JACK POSITIONS
SCALE 3/8" = 1'-0"



AXON. - JACK STOWED
SCALE - NTS

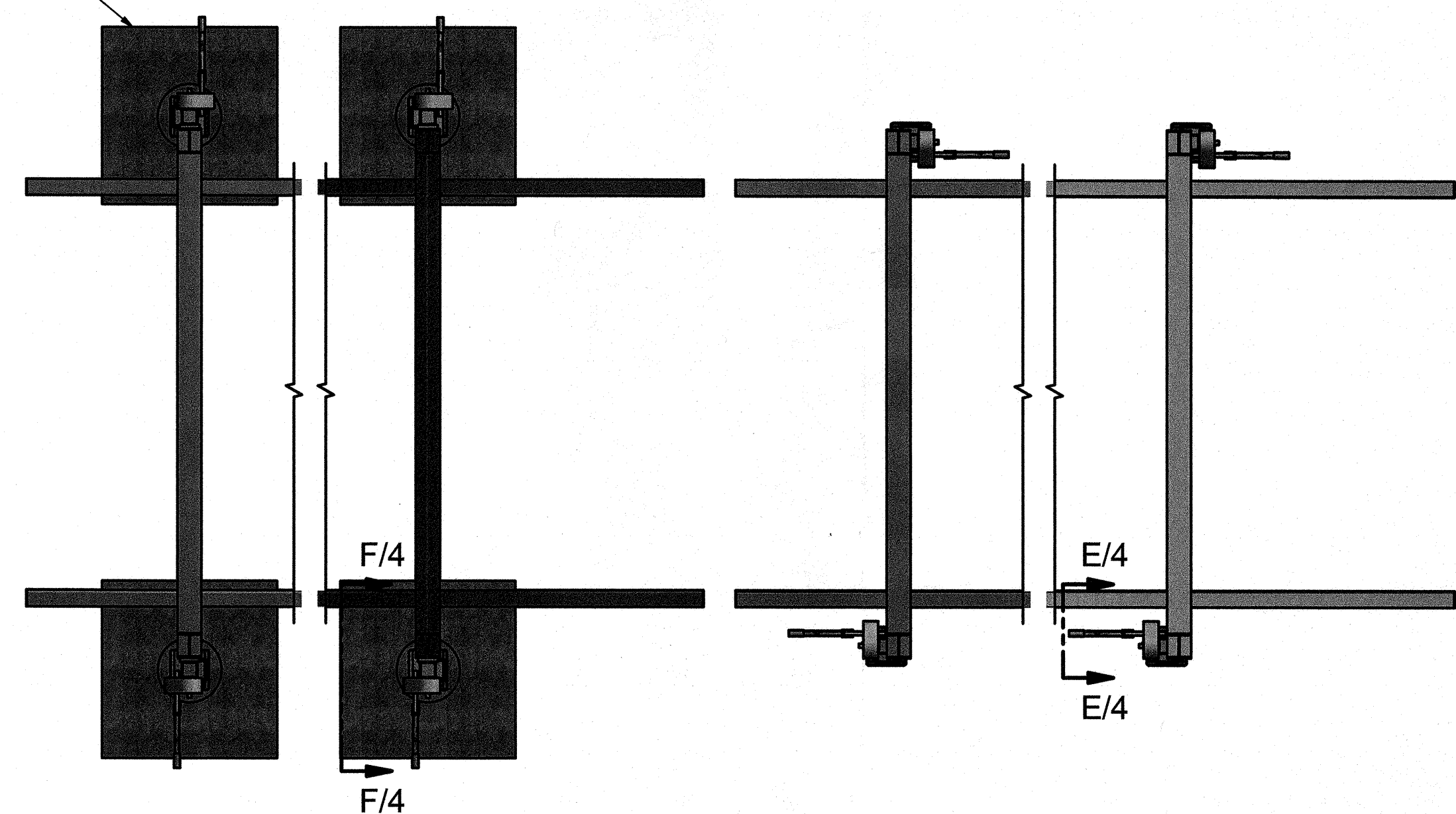


NORTH ELE. - SEC. E/4
SCALE 1 1/2" = 1'-0"

SECTION E/4-E/4
SCALE 1 1/2" = 1'-0"

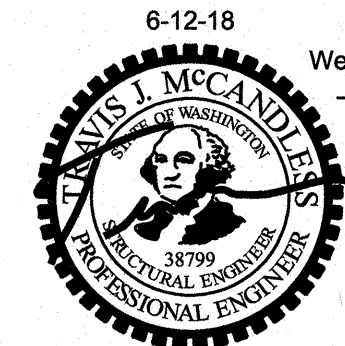
SOUTH ELE. - SEC. E/4
SCALE 1 1/2" = 1'-0"

WEST ELE. - SEC. E/4
SCALE 1 1/2" = 1'-0"



PLAN - JACKS DEPLOYED
SCALE 3/8" = 1'-0"

PLAN - JACKS STOWED
SCALE 3/8" = 1'-0"



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West Coast Structural Engineering Inc.
2525 Sammamish Parkway #137, Issaquah, WA 98029
STRUCTURAL REVIEW
THIS DRAWING HAS BEEN
REVIEWED FOR STRUCTURAL
REQUIREMENTS ONLY PER
THE ATTACHED
CALCULATIONS.
PROJECT NO. W4444

**R6 CABIN - STRUCTURAL
STEEL FRAME**

Date	Description	By
02/28/2018	100% CDS	JCK
06/11/18	100% CDS R.1	JCK

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Proj. No. - 17.067

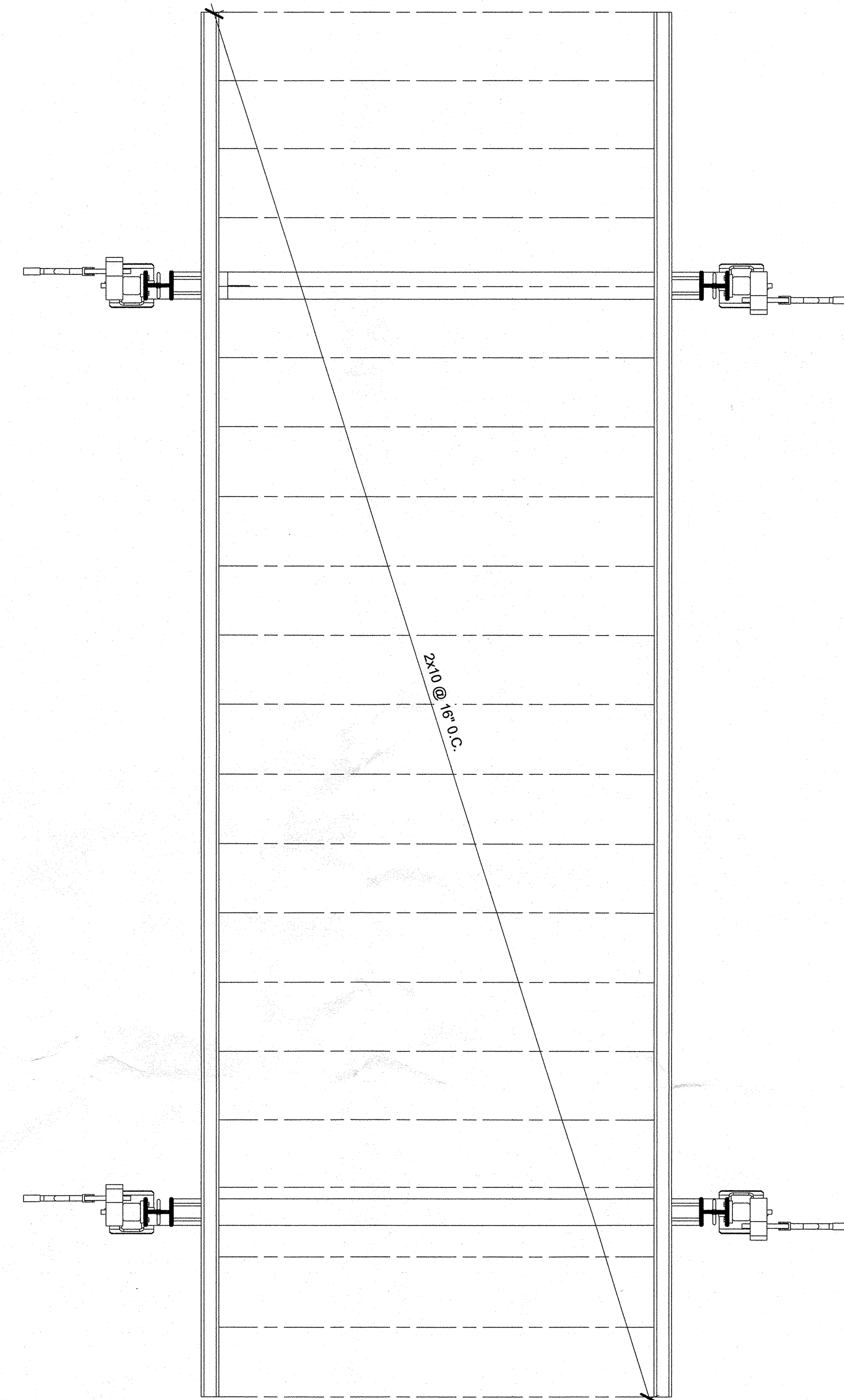
JACK DETAILS

Principal DESIGNER J. Kramp
Date 2/28/2018
Drawn By J. KRAMP
Checked By

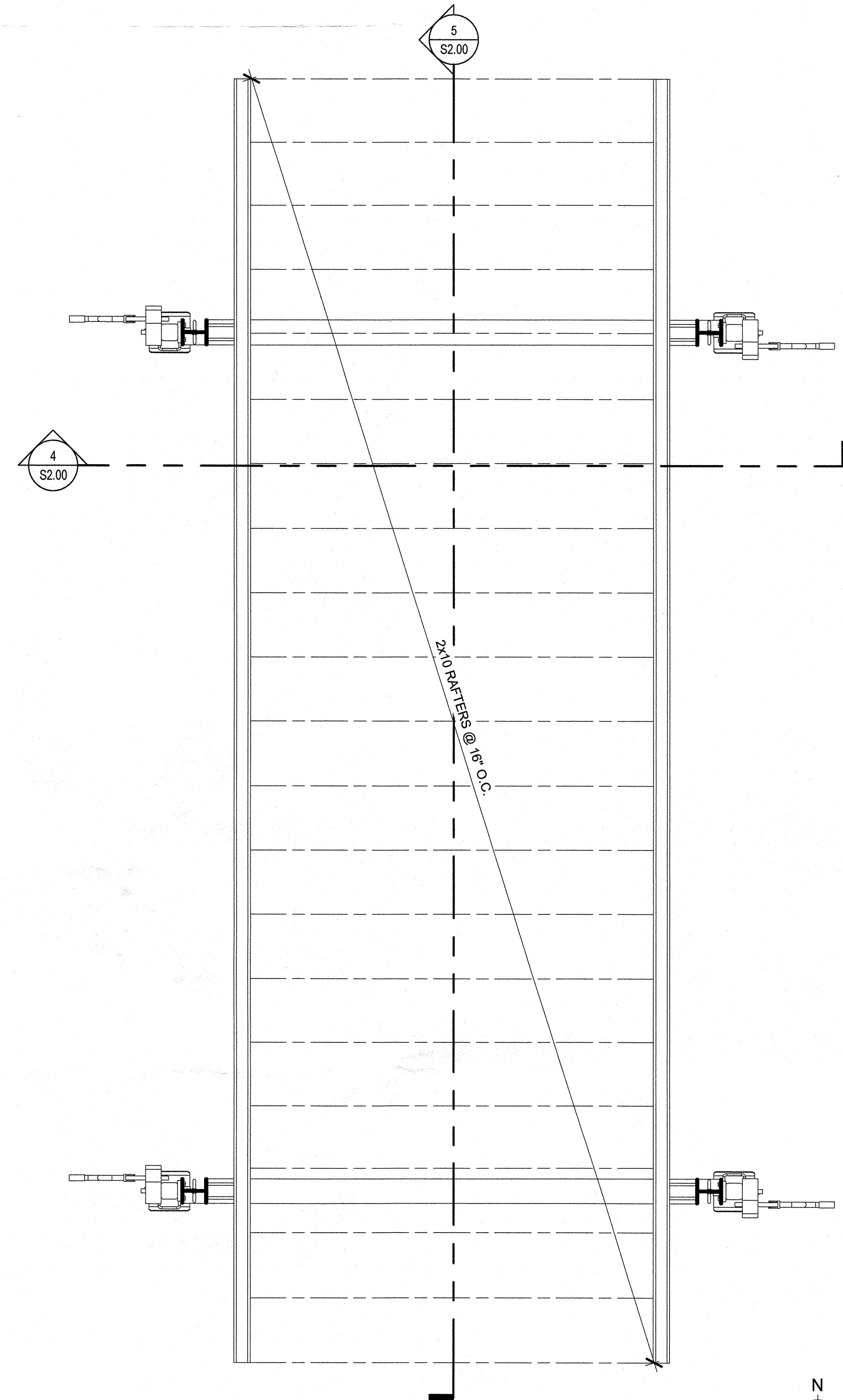
4 AUG 05 2018
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**R6 CABIN - STRUCTURAL
STEEL FRAME**



2 FLOOR FRAMING PLAN
SCALE: 1/2" = 1'-0"



1 ROOF FRAMING PLAN
SCALE: 1/2" = 1'-0"



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FRAMING PLAN

Principal DESIGNER J. Kramp

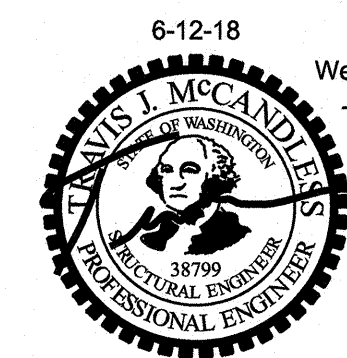
Date 2/28/2018

Drawn By J. KRAMP

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6-12-18
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9540 Semiahmoo Parkway #137 Baine, WA 98230
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STEEL FRAME**

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08/11/18	100% CDS R.1	JCK

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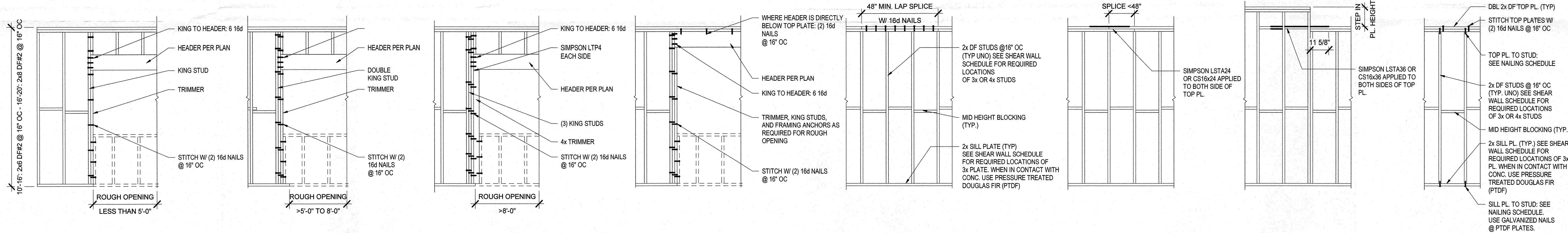
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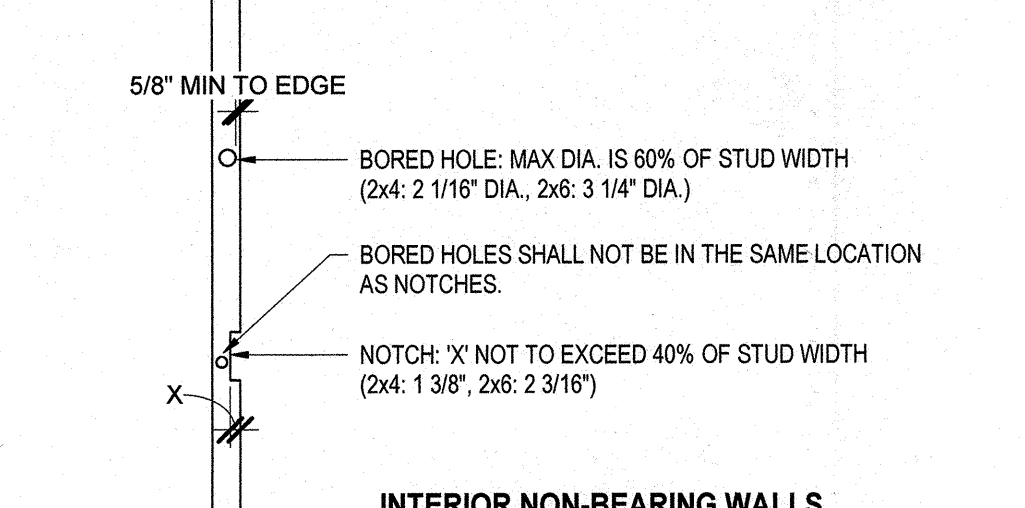
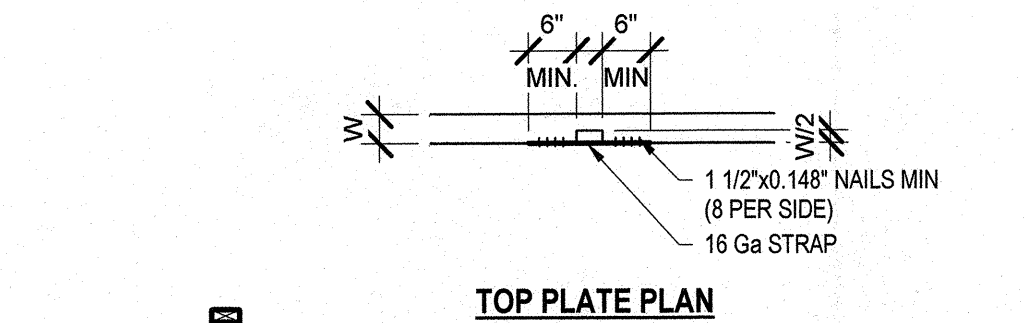
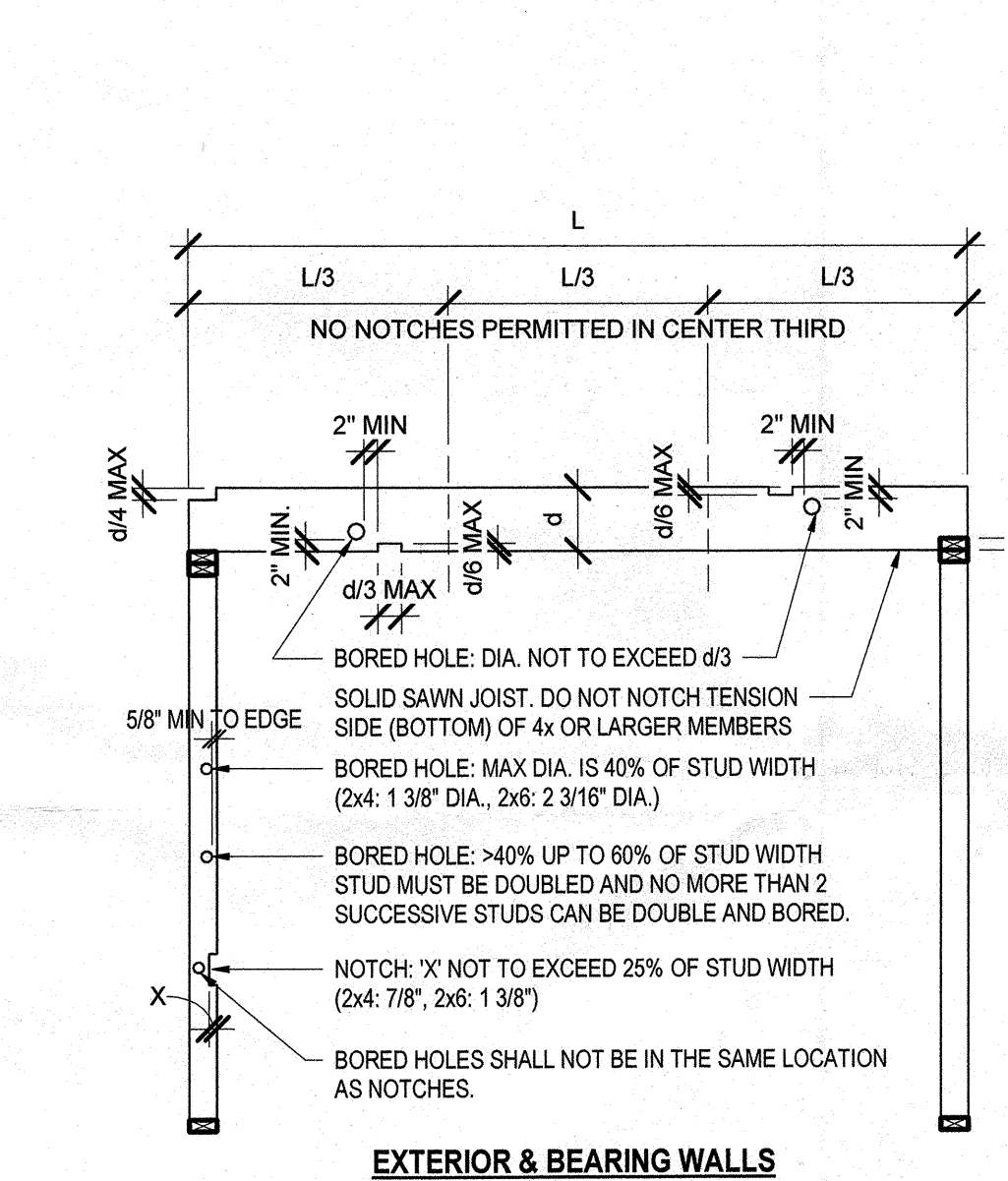
**STRUCTURAL SECTIONS
AND DETAILS**

Principal DESIGNER	J. Kramp
Date	2/28/2018
Drawn By	J. KRAMP
Checked By	

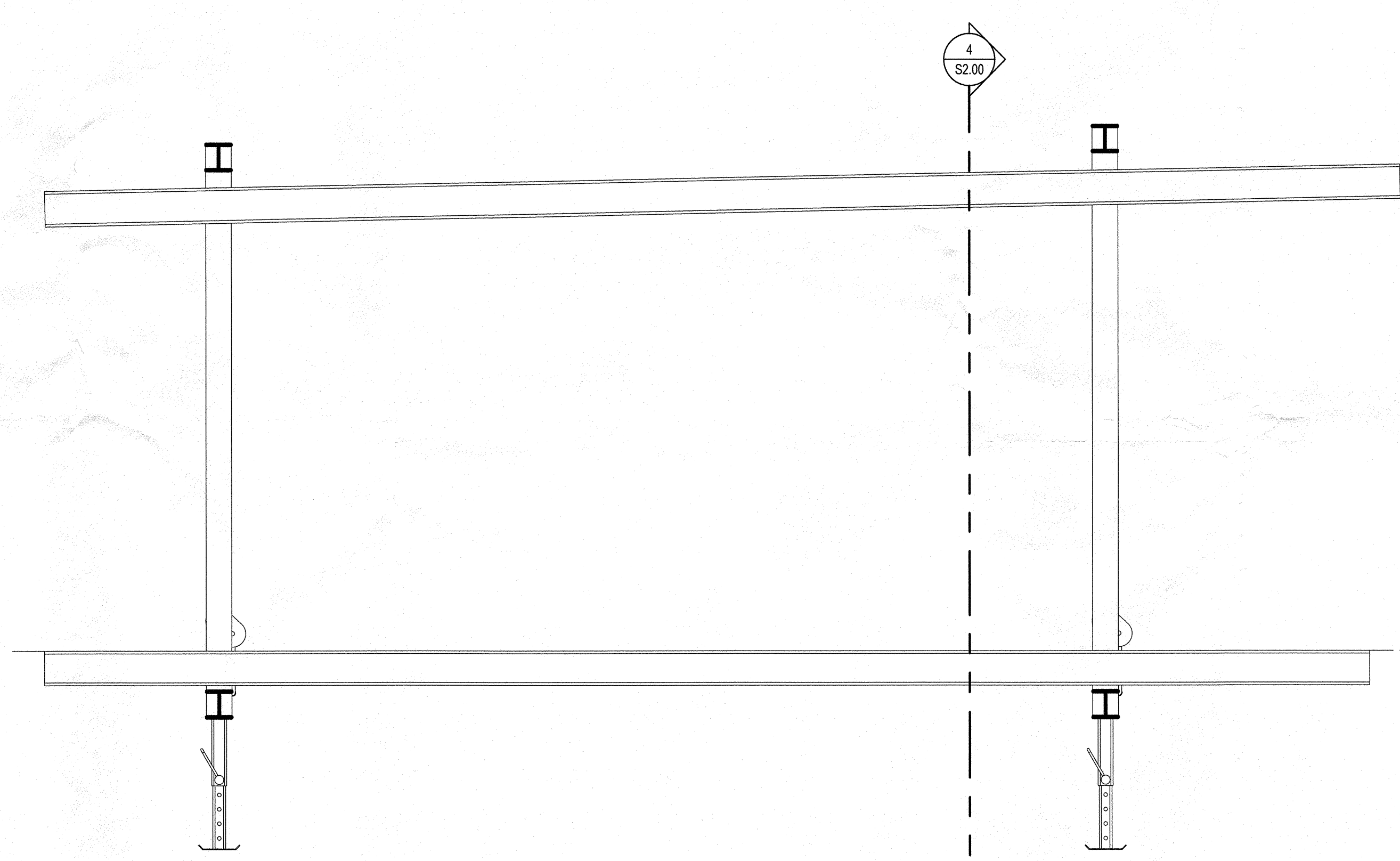
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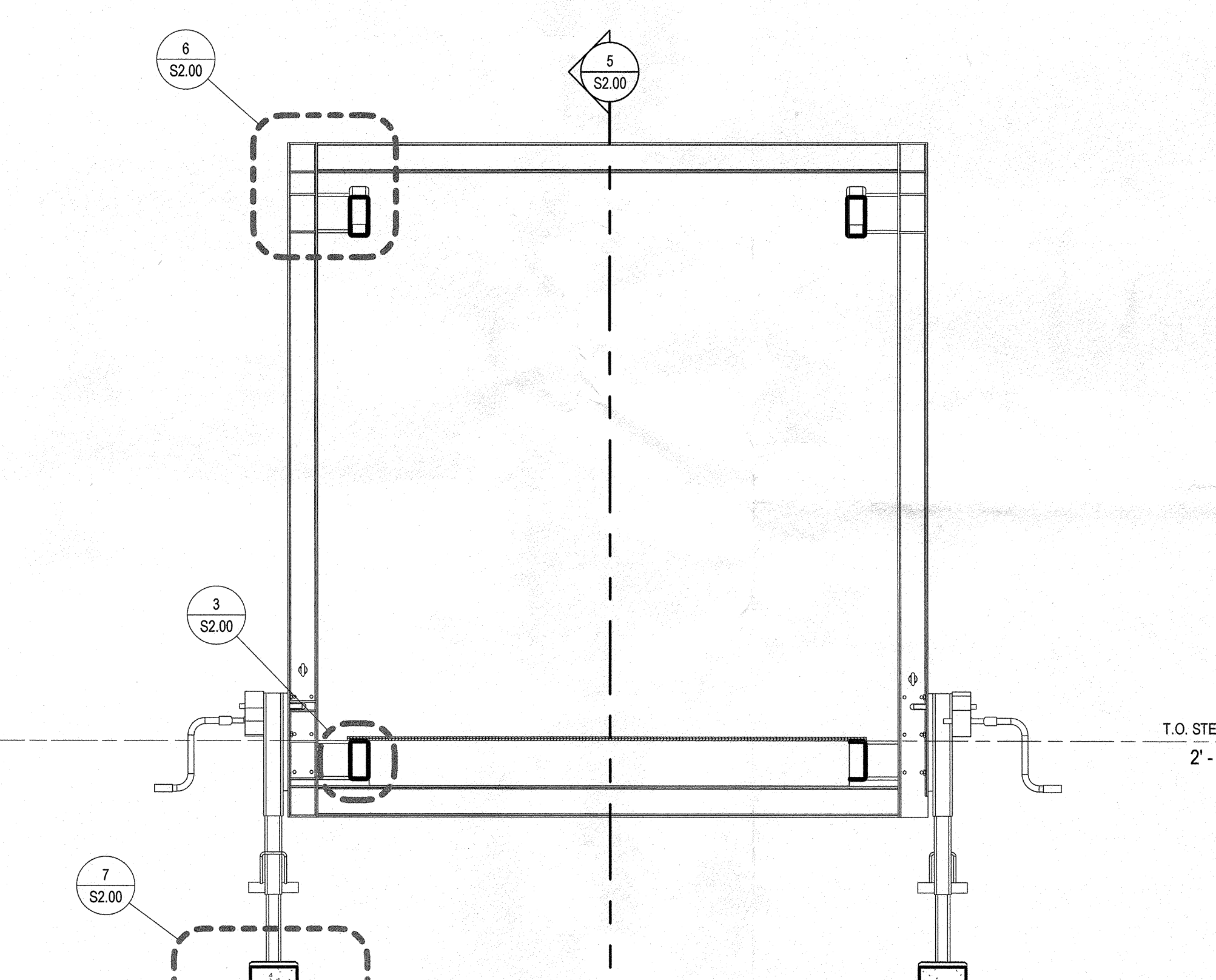
2 TYP. WALL FRAMING DETAILS
SCALE: 3/8" = 1'-0"



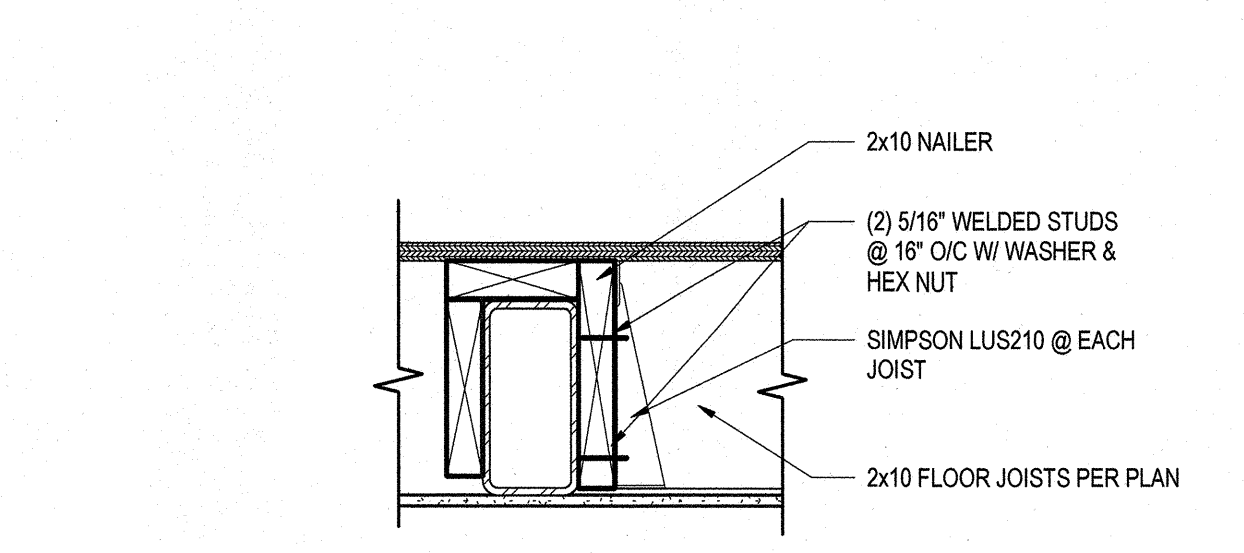
1 TYPICAL NOTCHING & BORING DETAILS
SCALE: 1/2" = 1'-0"



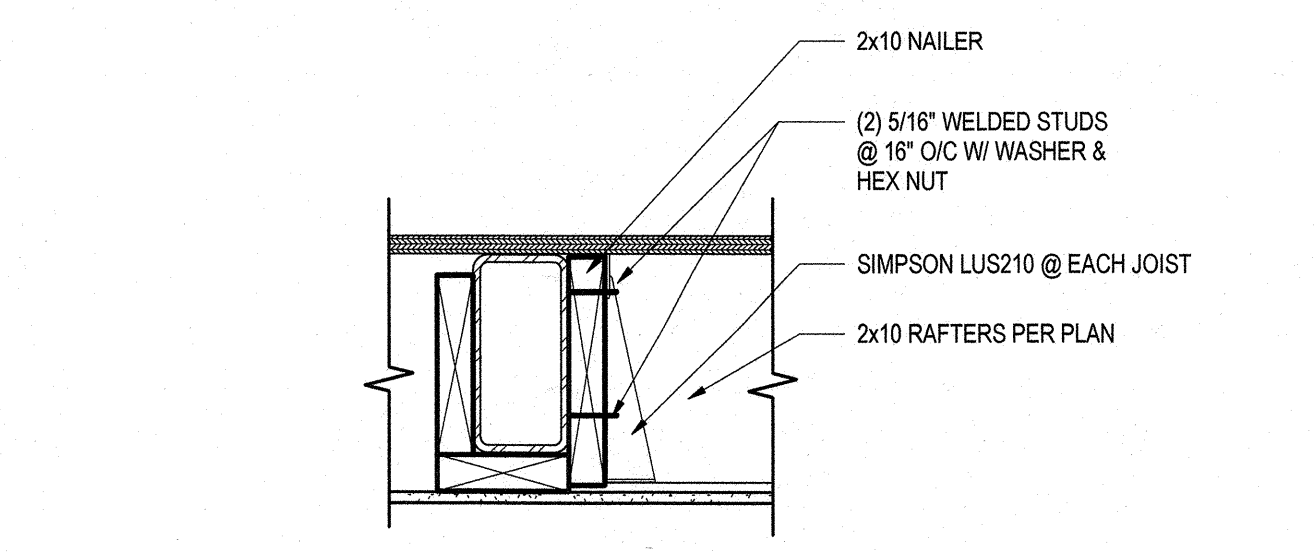
5 N/S SECTION THROUGH CABIN STRUCTURE
SCALE: 1/2" = 1'-0"



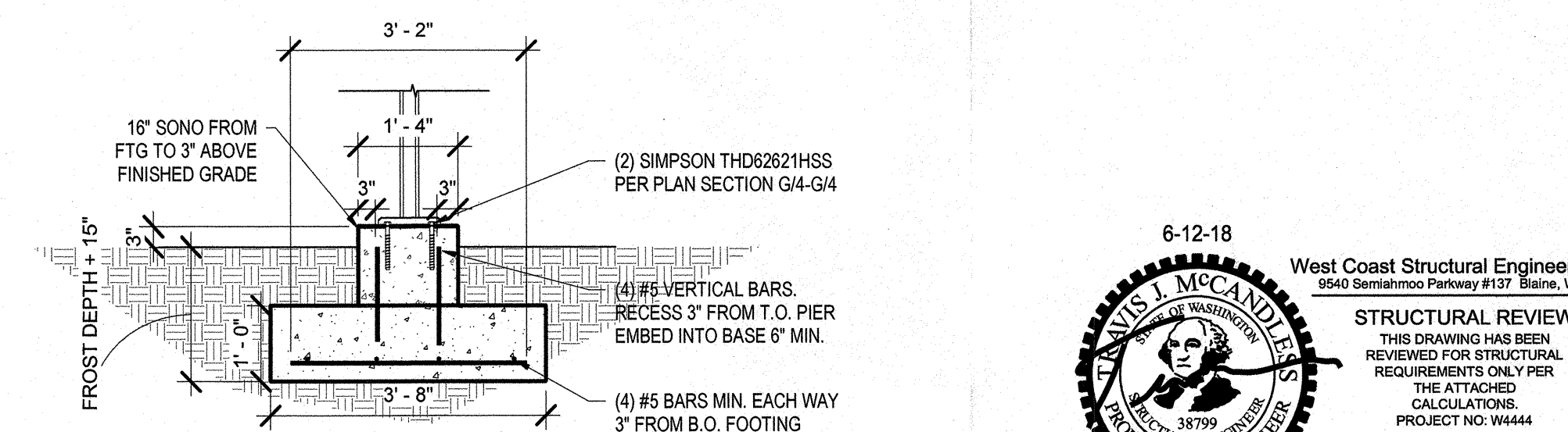
4 E/W SECTION THROUGH CABIN STRUCTURE
SCALE: 1/2" = 1'-0"



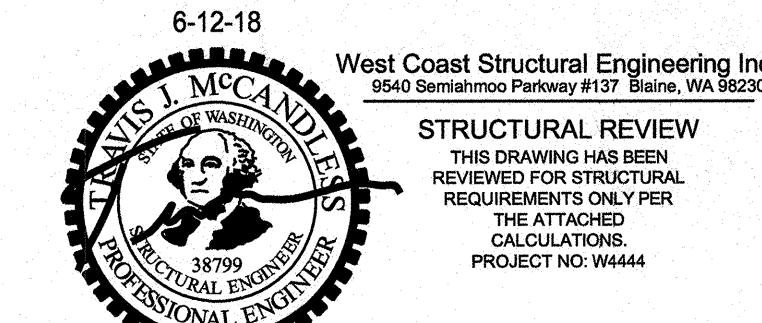
3 FLOOR JOIST CONNECTION @ HSS
SCALE: 1 1/2" = 1'-0"



6 RAFTER CONNECTION @ HSS
SCALE: 1 1/2" = 1'-0"



7 TYPICAL PIER FOOTING
SCALE: 1/2" = 1'-0"





Washington Association of Building Officials

This is to certify that

Northwest Steel Fabrication, Inc

Deer Park, WA

is a WABO Registered

Steel Fabricator

Expires: 01/01/2020

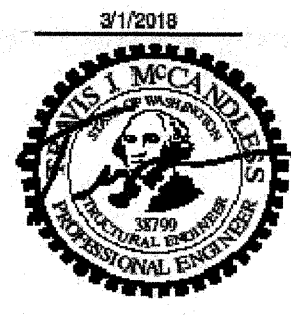
Date

Julie Rogers
WABO Executive Director

ALL STEEL FABRICATION SHOWN IN THESE DRAWINGS WILL BE PERFORMED BY THE COMPANY LISTED ABOVE, PRIOR TO EXPIRATION OF LISTED CERTIFICATION

West Coast Structural Engineering, Inc. 9540 Sememoo Parkway #137 Stearns, WA 98220 (425) 347-8998 WCSA.NET

STRUCTURAL CALCULATIONS



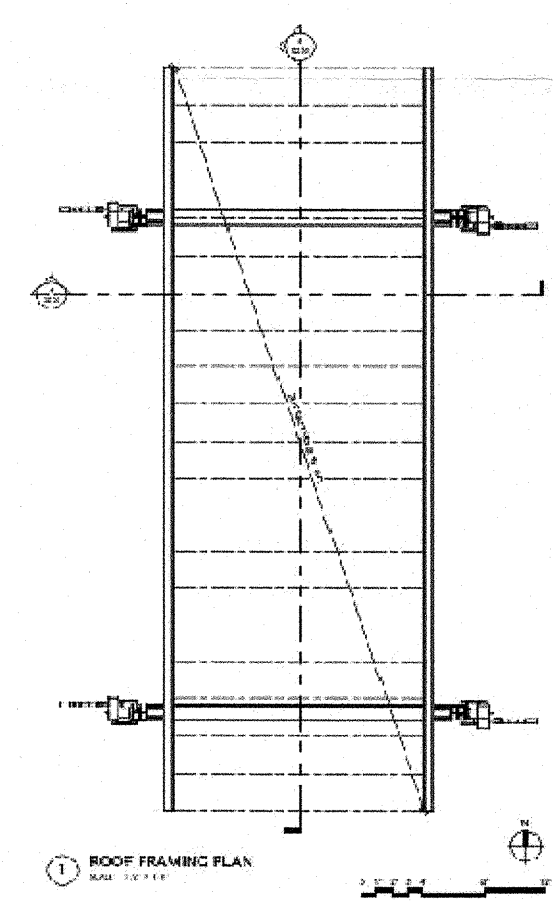
Project Description: R6 Cabin

Client: KB Architecture/Kinetics
106 Church St
Suite 4
Roseville, CA 95678

Project Number: W4444
Date: March 1, 2018

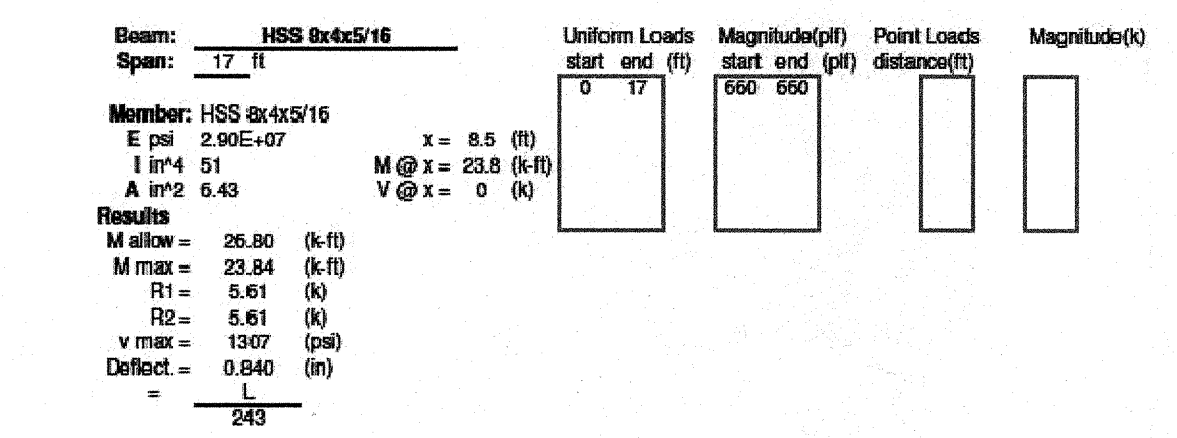
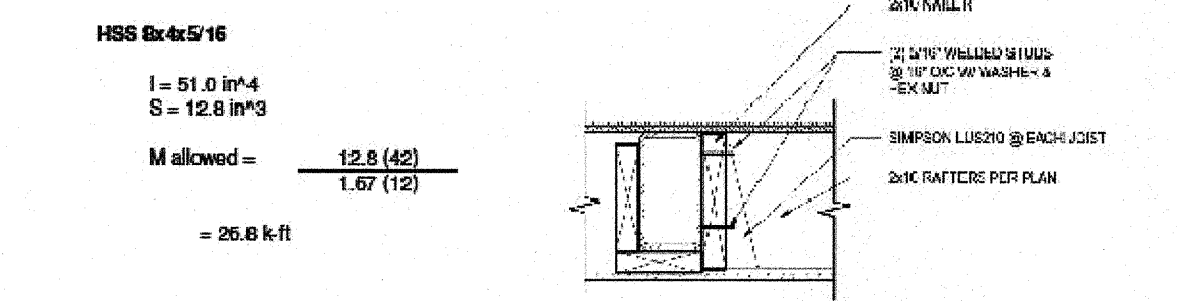
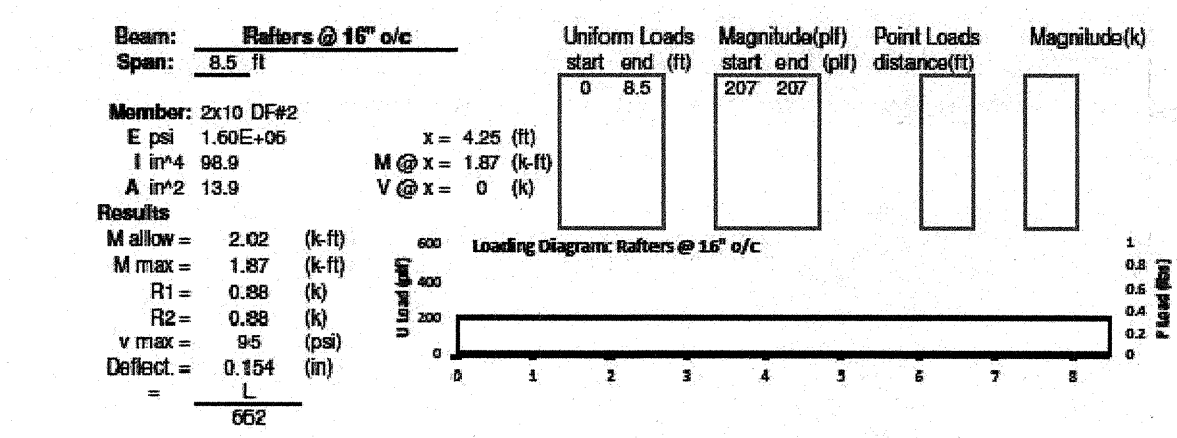
Design Criteria:
Code: 2015 IBC / ASCE 7-10
Wind: 110 mph
Exposure: C
Kzt: 1.00
Seismic Zone: Design Category D
Snow Load: 135 psf LL
Roof: 20 psf DL
Floor: 40 psf LL, 100 psf DL
Soil: Site Class "D" (Assumed)
Allowable Basing: 2500 psf
Passive Pressure: 300 psf
Active Pressure: 35 psf (unrestrained), 60 psf (restrained)
Friction: (phi) 0.35

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Project: W4444 Sheet No: 2 3/1/2018

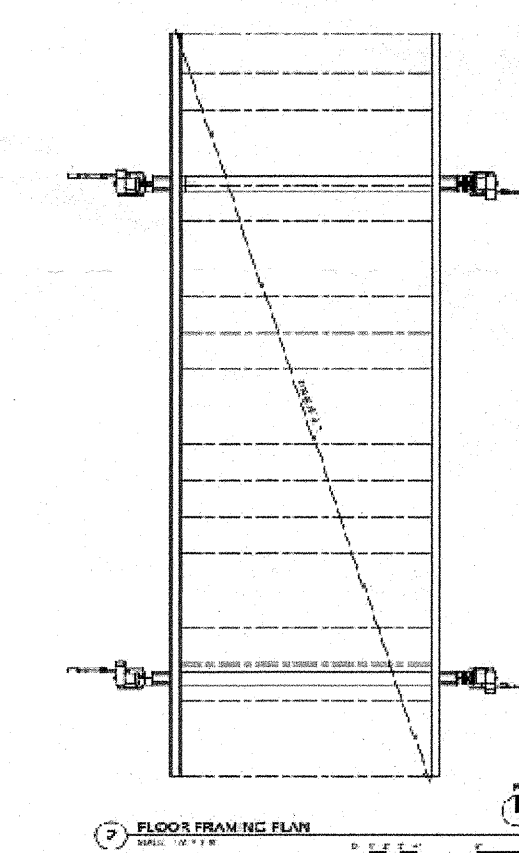
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Project: W4444 Sheet No: 3 3/1/2018

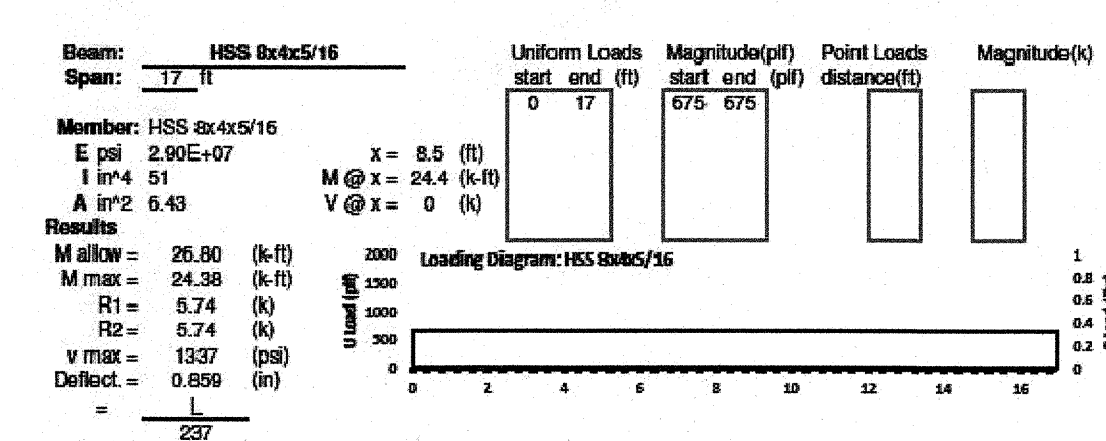
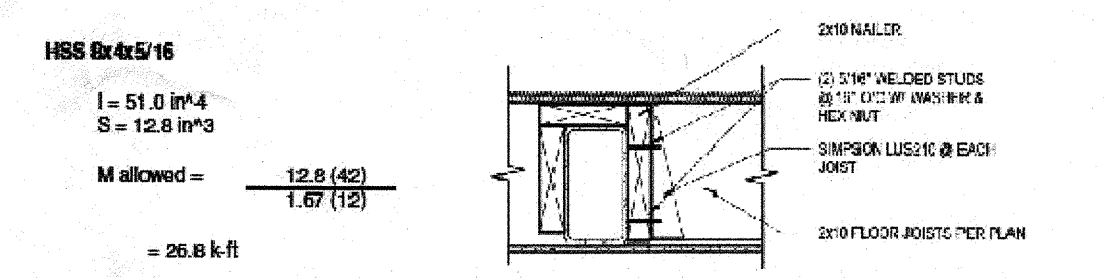
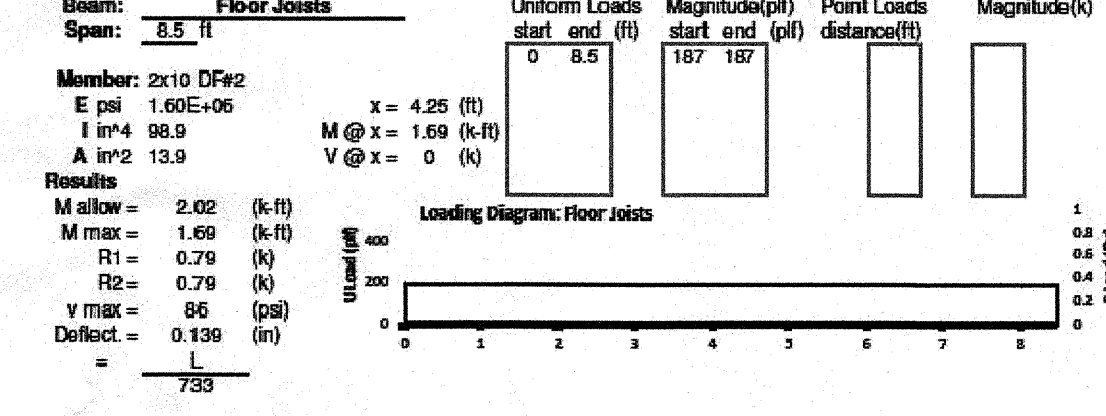
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Can'tilvered portion:
M max = $\frac{660(8^2)}{2} = 11.9 \text{ k-ft}$ (does not control)
Max column reaction from roof DL + Snow = $5.61 + 7.9 = 13.5 \text{ k}$



Project: W4444 Sheet No: 4 3/1/2018

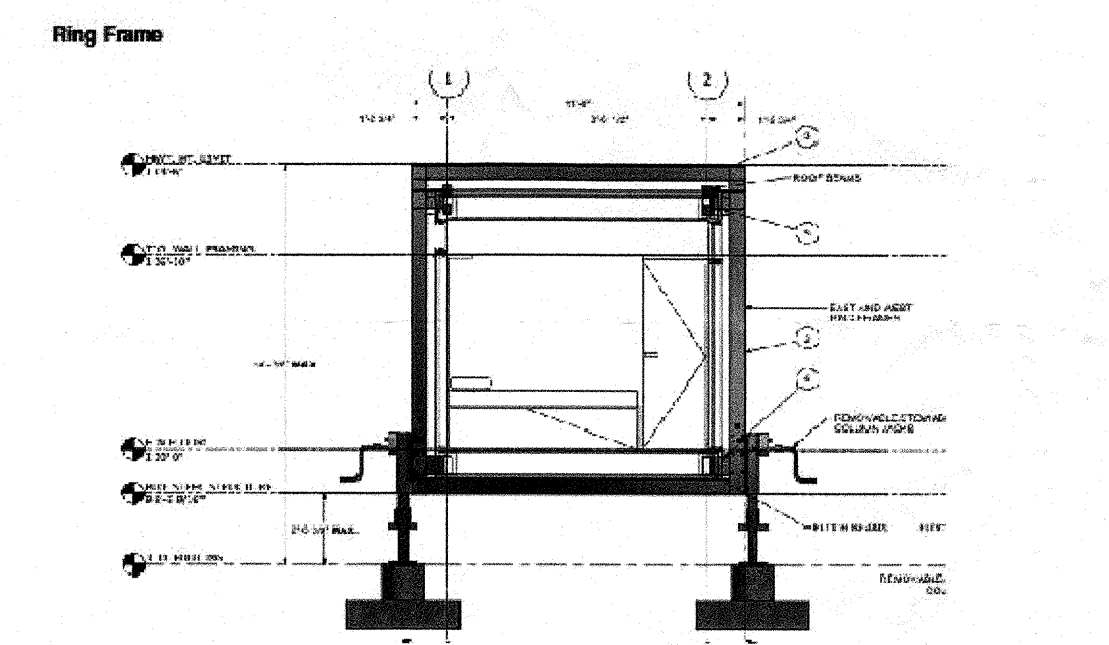
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Project: W4444 Sheet No: 5 3/1/2018

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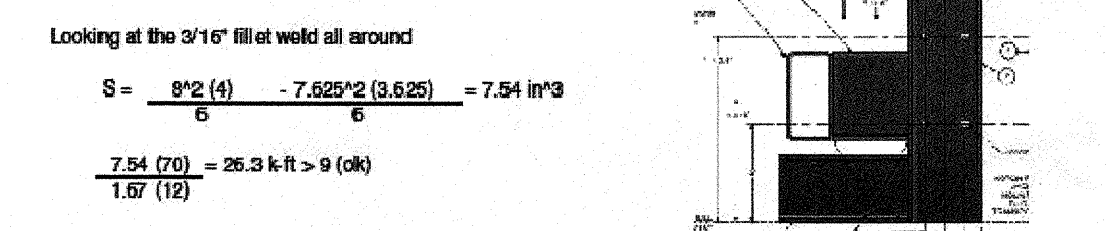
5/16" welded studs
 $V = 1/2(8.5)140(12) = 739 \text{ lb}$
with (2) studs, $v = 369 \text{ lb/stud}$
 $As = 0.076 \text{ in}^2, fv = 5.1 \text{ ksi}$ (ok)



Project: W4444 Sheet No: 6 3/1/2018

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Floor and roof beam connections are structurally similar.
M max = $13.5(9/12) = 9 \text{ k-ft}$
For the HSS 8x4x5/15 cantilvered beam
M allowed = $26.8 \text{ k-ft} > 9$ (ok)



Locking at the 3/16" fillet weld all around
 $S = \frac{8^2(4)}{6} = 7.62 \text{ in}^3$
 $\frac{7.54(70)}{1.67} = 26.3 \text{ k-ft} > 9$ (ok)

Verticals and spreaders are W6x20
 $A = 5.87 \text{ in}^2$
 $S = 13.4 \text{ in}^3$
 $I = 41.4 \text{ in}^4$
M allowed = $\frac{13.4(50)}{1.67} = 33.4 \text{ k-ft}$ (ok)

Jack
Jack is a rated component.
Connection of Jack to W6x20 uses (6) 5/8" diameter bolts
 $V = 25/6 = 4.1 \text{ k}$ (ok for 5/8" shear)
Moment due to eccentric loading of jack on W6x20
M max = $25(6/12) = 12.5 \text{ k-ft} < 33$ (ok)

Project: W4444 Sheet No: 7 3/1/2018

K|B architecture|kinetics

www.kbarchitectural.com
11714 17th Ave. Ct. NW
Gig Harbor, WA 98332
425.876.5795
106 Church Street, Ste. 4
Roseville, CA 95678

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R6 CABIN - STRUCTURAL STEEL FRAME

Date	Description	By
02/28/2018	100% CDS	JCK
06/11/18	100% CDS R.1	JCK

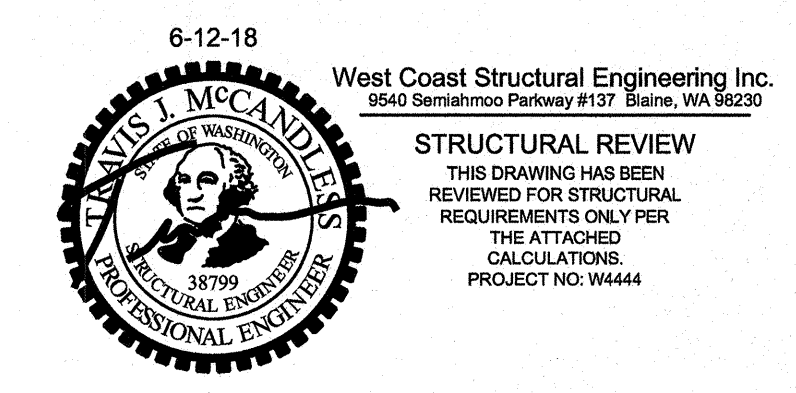
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Proj. No. - 17.067

CERTIFICATIONS AND ENGINEERING DOCUMENTATION

Principal DESIGNER	J. Kramp
Date	2/28/2018
Drawn By	J. KRAMP
Checked By	



6-12-18
West Coast Structural Engineering, Inc.
9540 Sememoo Parkway #137 Stearns, WA 98220
STRUCTURAL REVIEW
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PROJECT NO. W4444

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LATERAL ANALYSIS - SINGLE STORY STRUCTURE

Site Class: D
 $S_s = 1.05$ (mapped spectral accel. Short period)
 $S_1 = 0.40$ (mapped spectral accel. 1-sec. period)
 Design Method: ASCE 7-10 Simplified Procedure
 $V = (F_s S_d R) / W = 0.128$ W
 AISC 12.14.8.1 $F = 1.0$ for one-story buildings
 $R = 6.5$ (ASCE 7-10 Table 12.14-1) Light-framed walls sheathed with wood structural panels
 $I = 1.0$ (ASCE 7-10 Table 1.2-2)

Calculating Structure Contributing Seismic Weights:

Description	Area	psf	W (k)
Floor	230	20	4.6
Roof	230	100	23.0
			Total W = 27.6

Using allowable stress design load combinations per ASCE 2.4.1
 $V = 0.7 \times 0.128 \times 27.6 = 2.48$ kips

ASCE 7-10 Chapter 27 Directional Procedure Wind Load Design Procedure: Enclosed Buildings

Design Parameters:
 Velocity Pressure Coefficients, K_z and K_{zt}
 Table 27.3-1
 $q_z = 0.00256 \cdot K_z^2 \cdot K_{zt} \cdot K_d \cdot V^2 =$

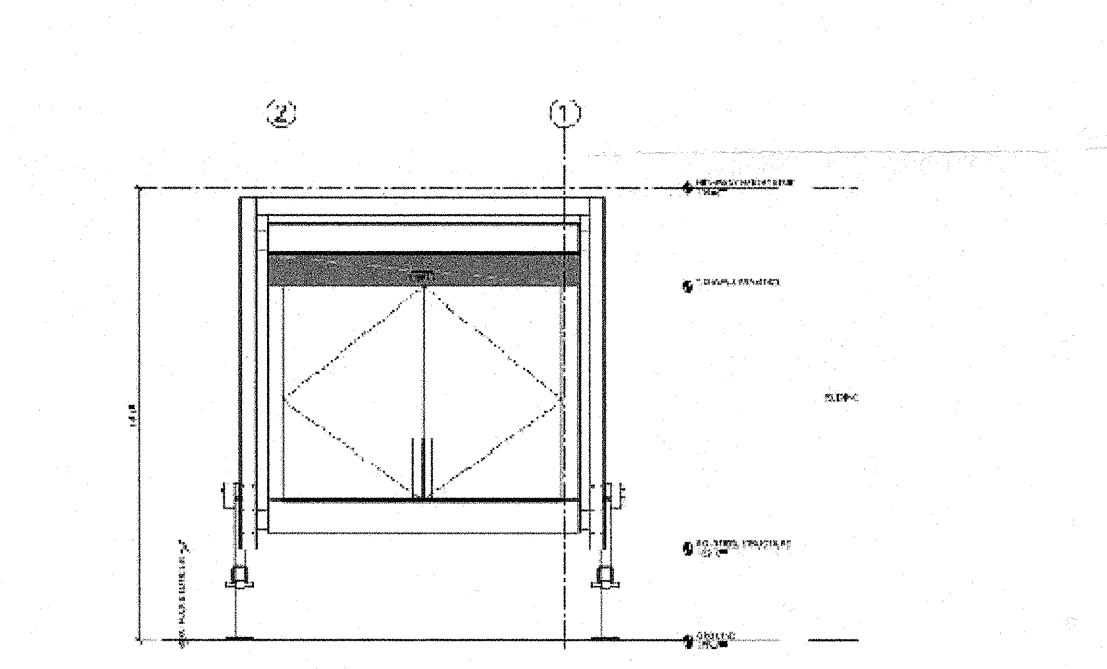
Exposure	Height, z	B	C	D	q_z
I-C	0-15	0.57	0.50	1.03	22.4
	15-30	0.59	0.50	1.08	23.7
	30-40	0.59	0.54	1.12	24.7
	40-70	0.65	0.58	1.16	25.8
	70-100	0.75	0.58	1.22	27.4
II-B	0-15	0.81	0.50	1.27	28.7
	15-30	0.85	0.54	1.31	29.8
	30-40	0.89	0.58	1.34	30.8
	40-70	0.95	0.62	1.38	31.9
	70-100	1.09	0.62	1.40	32.6

Figure 27.4.1 External Pressure Coefficients, C_p
 Enclosed, Partially Enclosed Buildings

Surface	Windward	Leeward	Roof
Wall	0.8	-0.5	-0.7
Roof	0.8	-0.5	-0.7
Sub Wall	-0.7	-0.7	-0.7

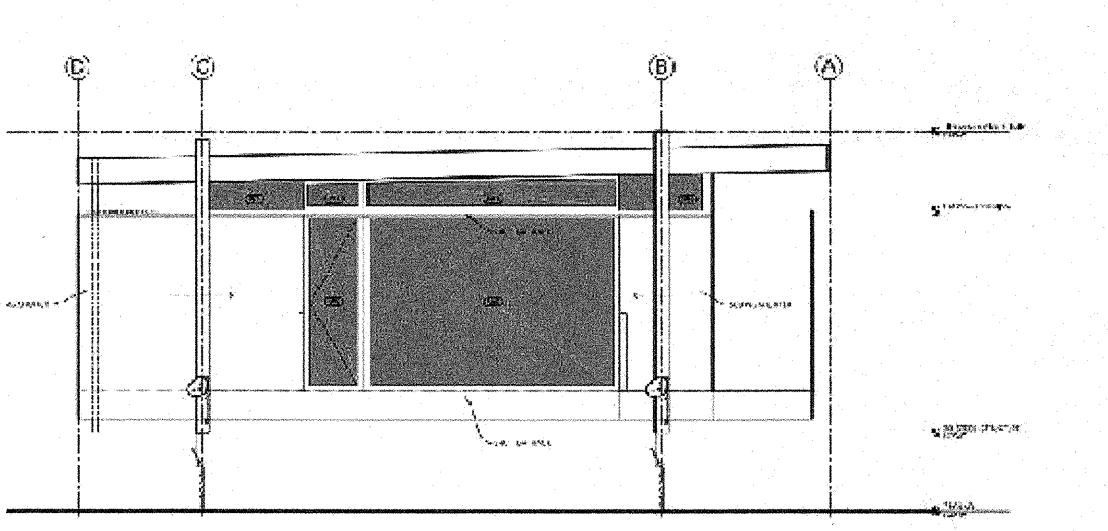
Roof Pressure Coefficients, C_p , for use with q_h

Wind Direction	Windward	Leeward
Normal to ridge for $q < 10$ deg	0.8	-0.5
Normal to ridge for $q > 10$ deg	0.8	-0.5
Parallel to ridge for all q	0.8	-0.5



W ZONE ELEVATIONS
 Note: $h = 1.36$ $L = 0.41$ zone: (R) Roof or (W) Wall zone

Diagram zone	Windward	Leeward	zone	Total Area	Design Wind Pressure, psf	Force	Min Force
Roof	0.8	-0.5	15	22.4	16.2	-9.5	24.7
Wall	0.8	-0.5	15	22.4	16.2	-9.5	24.7



W ZONE ELEVATIONS
 Note: $h = 1.36$ $L = 0.41$ zone: (R) Roof or (W) Wall zone

Diagram zone	Windward	Leeward	zone	Total Area	Design Wind Pressure, psf	Force	Min Force
Roof	0.8	-0.5	15	22.4	16.2	-9.5	24.7
Wall	0.8	-0.5	15	22.4	16.2	-9.5	24.7

Lateral $V_{max} = 4.21 / 4 = 1.05$ k/footing
 Ring frame:
 $OTM = 1/2 (4.21) 7 = 14.7$ k-ft
 $RM = 0.6 (140) 1/2 (8.6) 11.5 (10.5) = 43.1$ k-ft
 no residual uplift.
 Jack foot will be pinned to the footing with (2) #3" T10m concrete anchors
 $V = 0.5$ Wanchor (ok)

Footings:
 $P_{max} = 14.5 (1/2) 8.5 (155 + 140) = 18.2$ k

Soil bearing: 2000 psf
 Axial Load (P): 18.20 k
 Fig. Weight: 2.95 k

Min Width (B): 3.18 ft
 Fig. Width: 3.7 ft
 Fig. Depth: 12 in
 Rebar Size: #5
 # of Rebar: 4

Assume uniform pressure on bottom of footing
 analyze 1 ft wide strip of footing as a cantilever

LRFD concrete design
 $A_{req} = 3 \text{ For } b(d) / fy = 0.26 \text{ in}^2$
 $A_{req} = 250 \text{ b(d)} / fy = 0.35 \text{ in}^2$
 $(4/3) Mu < (phi) Mn = N/A \text{ in}^2$

$f_c = 2.5 \text{ ksi}$ $A_s = 0.38 \text{ in}^2$ ok
 $f_y = 60 \text{ ksi}$ $b = 12 \text{ in}$
 $d = 8.50 \text{ in}$
 $phi = 0.90$ $A_g = 104 \text{ in}^2$
 $phi = 0.75$

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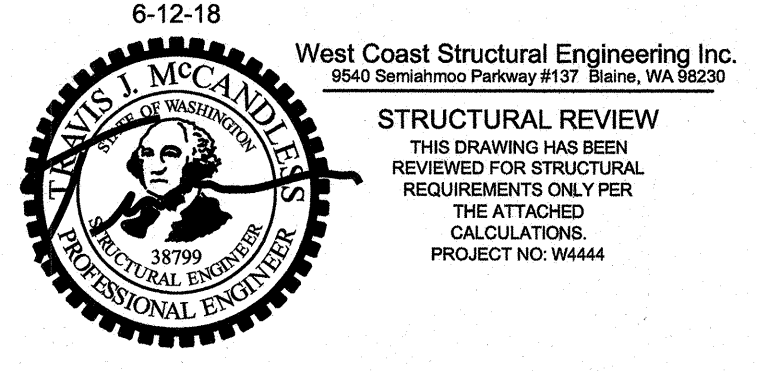
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 321 3rd Ave. S, #201
 Seattle, WA 98104

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ENGINEERING DOCUMENTATION

Principal DESIGNER	J. Kramp
Date	2/28/2018
Drawn By	J. KRAMP
Checked By	

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West Coast Structural Engineering, Inc.
 9540 Semiahmoo Parkway #137 Blaine, WA 98220
 STRUCTURAL REVIEW
 THIS DRAWING HAS BEEN REVIEWED FOR STRUCTURAL REQUIREMENTS ONLY PER THE ATTACHED CALCULATIONS. PROJECT NO. W4444

DATE: May 23, 2018
PROJECT: R6 Cabin

PANEL: House Panel
VOLTS: 120/240
LOCATION: Utility Room
MOUNTING: Surface
NOTES: (Designates arc fault circuit interrupter circuit breaker)

TYPE: LC AMPS: 60
PHASE: 1 WIRE: 3
MAIN: Breaker

LOAD CLASS	Conn. VA	Demand Factor	Demand Load VA
OUTLETS, LIGHTING	6430		
MOTOR LOADS	509		
KITCHEN LOADS	1800		
APPLIANCE LOADS	0		

	Connected	Demand****
TOTAL VOLT-AMPS	9,459	
MAXIMUM PHASE AMPS	40.5	

BREAKER A	P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	A
20	1	Kitchen Receptacle	1500	1	A	2	300	Lighting	1	20
20	1	Kitchen Receptacle	1500	3	B	4	1800	Condensing Boiler	1	20
20	1	Other Receptacle	720	5	A	6	300	Refrigerator	1	20
20	1	Laundry Receptacle	1500	7	B	8		Spare		
20	1	Fan Coil Units, Pump, Heat Tape, Exhaust Fans	509	9	A	10	300	Propane Cooktop	1	20
20	1	Exterior Lighting	60	11	B	12		Spare		
20	1	Bath Receptacle / Light	250	13	A	14		Spare		
20	1	Spare		15	B	16		Spare		
20	1	Utility Room / Outdoor Receptacles	720	17	A	18		Spare		
20	1	Spare		19	B	20		Spare		

PHASE TOTALS	Connected VA	A	B
		4599	4860
	Connected Amps	38.3	40.5

**** See Load Summary

1 PANEL SCHEDULE - HOUSE

Part 1 - General

- 1.01 CONTRACT CONDITIONS
A. The housing unit is being prefabricated and will be installed on site under a separate contract. Unit will be completely self contained and will interface to site utilities at the electrical panel located inside the Utility Room and at a telephone terminal board located above the electrical panel.
B. REFERENCE STANDARDS
The following specifications and standards are incorporated herein by reference: Underwriters Laboratories (UL), NFPA 70 - National Electric Code, NFPA 72 - National Fire Alarm Code, National Electrical Safety Code, International Building Code (IBC), International Fire Code (IFC), City, County, and State Codes and Ordinances.

Part 2 - Products

- 2.01 MATERIAL
A. Ground Rods: Copper-encased steel, 5/8 inch diameter, ground rods, Minimum length 8 feet in length will be field installed and bonded to a ground bus in the service panel in accordance with NEC Article 250.
- 2.02 SCHEDULE 40 PVC
A. Site installation contractor will provide underground runs to service pedestal, service panel and communication backboard using heavy wall, high impact plastic, Schedule 40 Polyvinyl Chloride.
- 2.03 BUILDING WIRE
A. Unit will be prewired using nonmetallic-sheathed cable Type NM.
B. Color Coding: 120/240 Volt System: A phase - black, B phase - red, Neutral - white, Travelers - lavender, Switch leg - orange, Ground - green.
- 2.04 OCCUPANCY SENSORS
A. Approved manufacturers: Sensor Switch WSD-PDT-2P; Wattstopper equal.
B. Compatible with electronic loads.
C. Dual Technology sensor with 2 pole relay for separate control of lighting and fan.
- 2.05 INTERIOR LUMINAIRES AND ACCESSORIES
A. See Architectural Reflected Ceiling plan for light fixture descriptions and specifications.
- 2.06 WIRING DEVICES
A. Residential Grade switches and duplex receptacles, white finish.
B. Category 6 cable and jacks per EIA/TIA standards.
C. Provide with ground fault circuit interrupter where indicated on drawings.
D. Provide weatherproof cover where indicated on drawings.

- 2.07 SMOKE / CO SENSOR
A. Provide 120 volt combination smoke / CO sensor, Kidde 12010 SCO or equal.
B. 120 volt operation with battery back up.
- 2.08 LOADCENTER
A. Enclosure: Type 1, 4 inches deep, 14 inches wide, concealed trim clamps, concealed hinge and flush lock all keyed alike. Finish in manufacturer's standard gray enamel. Paint to match wall finish. Hinged trim construction.
B. Bussing:
1. Copper bus, ratings as scheduled. Provide copper ground bus.
2. Minimum Integrated Short Circuit Rating: 10,000 amperes rms symmetrical.
C. Molded Case Circuit Breakers:
1. Bolt-on type thermal magnetic molded case with quick-make, quick-break action.
2. Common trip handle (no external brackets) for all poles with "ON," "OFF," and "TRIPPED" positions.
3. Provide arc fault circuit breakers where indicated on panel schedule.
4. Minimum Integrated Short Circuit Rating: 10,000 amperes rms symmetrical.
D. Acceptable Manufacturers: Square D, GE, Siemens and Eaton.

Part 3 - Execution

- 3.01 SLEEVES AND OPENINGS
A. Patch and seal around all openings, both sides of material penetrated where possible.
- 3.02 MANUFACTURER'S INSTALLATION DETAILS
A. Follow exactly, where available. Provide special wiring or fittings as required.
- 3.03 ACCESSIBILITY OF EQUIPMENT
A. Install equipment accessible for operation, maintenance or repair as required by NEC.
- 3.04 COORDINATION
A. Coordinate conduit, junction boxes, supporting equipment, etc. Affecting normal operating and maintenance activities related to mechanical equipment, piping, valves, accessories, etc.
- 3.05 TESTS
A. Fully test and adjust equipment installed under this specifications prior to Owner's personnel instruction. Each system shall be left in proper operation free of faults, shorts or unintentional grounds.

3.06 EQUIPMENT CONNECTIONS

- A. Provide a complete electrical connection for all items of equipment including incidental wiring, materials, devices and labor necessary for a complete operating system. The location and method for connecting to each item of equipment shall be verified prior to rough-in. The voltage and phase of each item of equipment shall be checked before connecting.
- 3.07 GENERAL WIRING METHODS
A. Use no wire smaller than 12 AWG for power and lighting circuits, and no smaller than 16 AWG for control wiring. Provide dedicated neutral for each 120 volt circuit.
B. Neatly train and lace wiring inside boxes, equipment, and panelboards using cable ties.
C. Provide wire markers on each conductor in panelboards and at load connection.
D. Identify with branch circuit or feeder number for power and lighting circuits.
E. Identify control wire number as indicated on equipment manufacturer's shop drawings.

3.08 OCCUPANCY SENSORS

- A. Adjust sensor to turn off area lighting circuit(s) if unoccupied for a period of 15 minutes. Interface sensor to fan controls per schematic drawing

3.09 PANELBOARD INSTALLATION

- A. Height: 6 ft. 6 inches to center of the grip of the operating handle of the highest switch or breaker. Provide filler plates for unused spaces in panelboards.
B. Provide typed circuit directory for each branch circuit panelboard.

3.10 NETWORK CABLE INSTALLATION

- A. Category 6 Cable Terminations:
1. Category 5e termination techniques shall be followed, including, but not limited to: no more than 1/2 inch unsheathed wire, wire shall not be untwisted to ease termination, and the bend radius of the installed wire shall be adhered to.

9 ELECTRICAL SPECIFICATIONS

10 ELECTRICAL SPECIFICATIONS

11 ELECTRICAL SPECIFICATIONS

Paradigm Engineering

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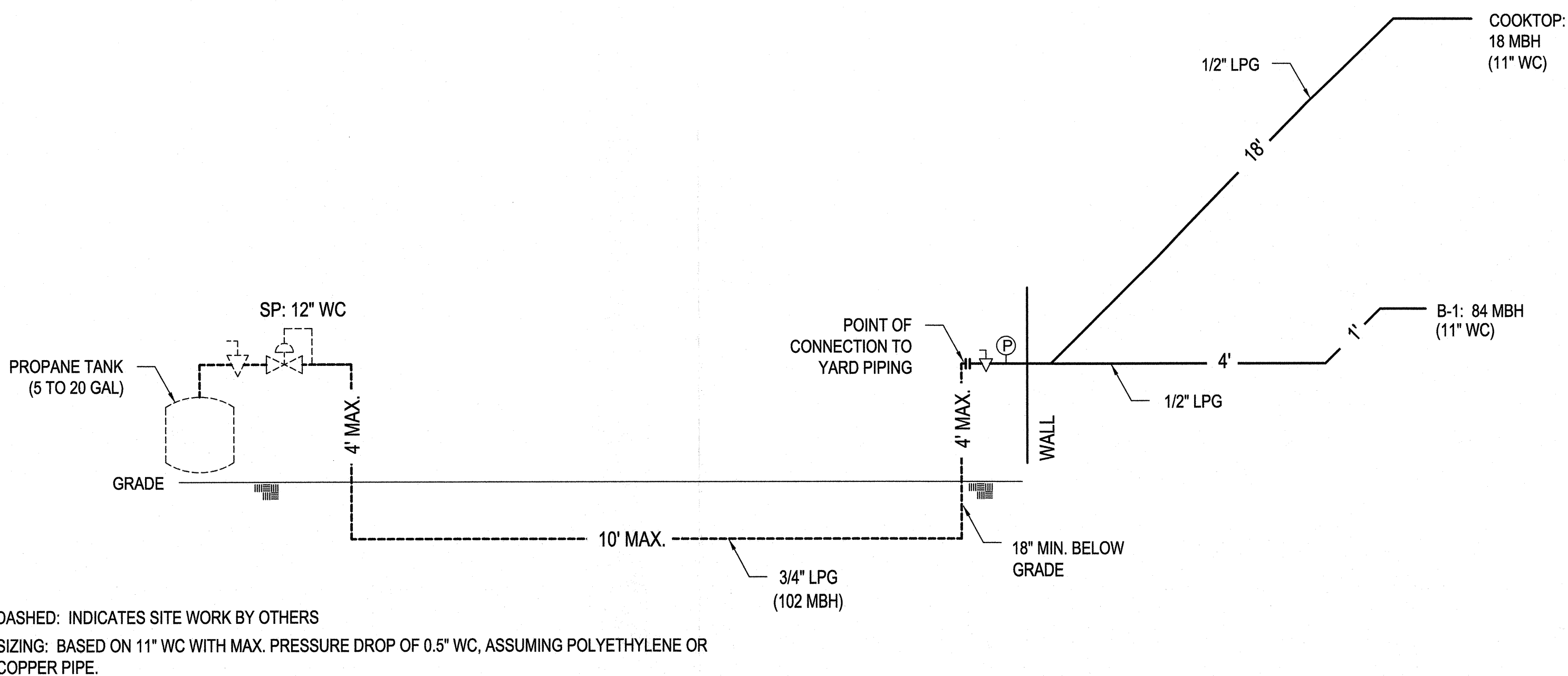
principal architect _____
project manager _____
drawn by MSH
date JUNE 13, 2018
checked by JK
job no _____

revisions _____

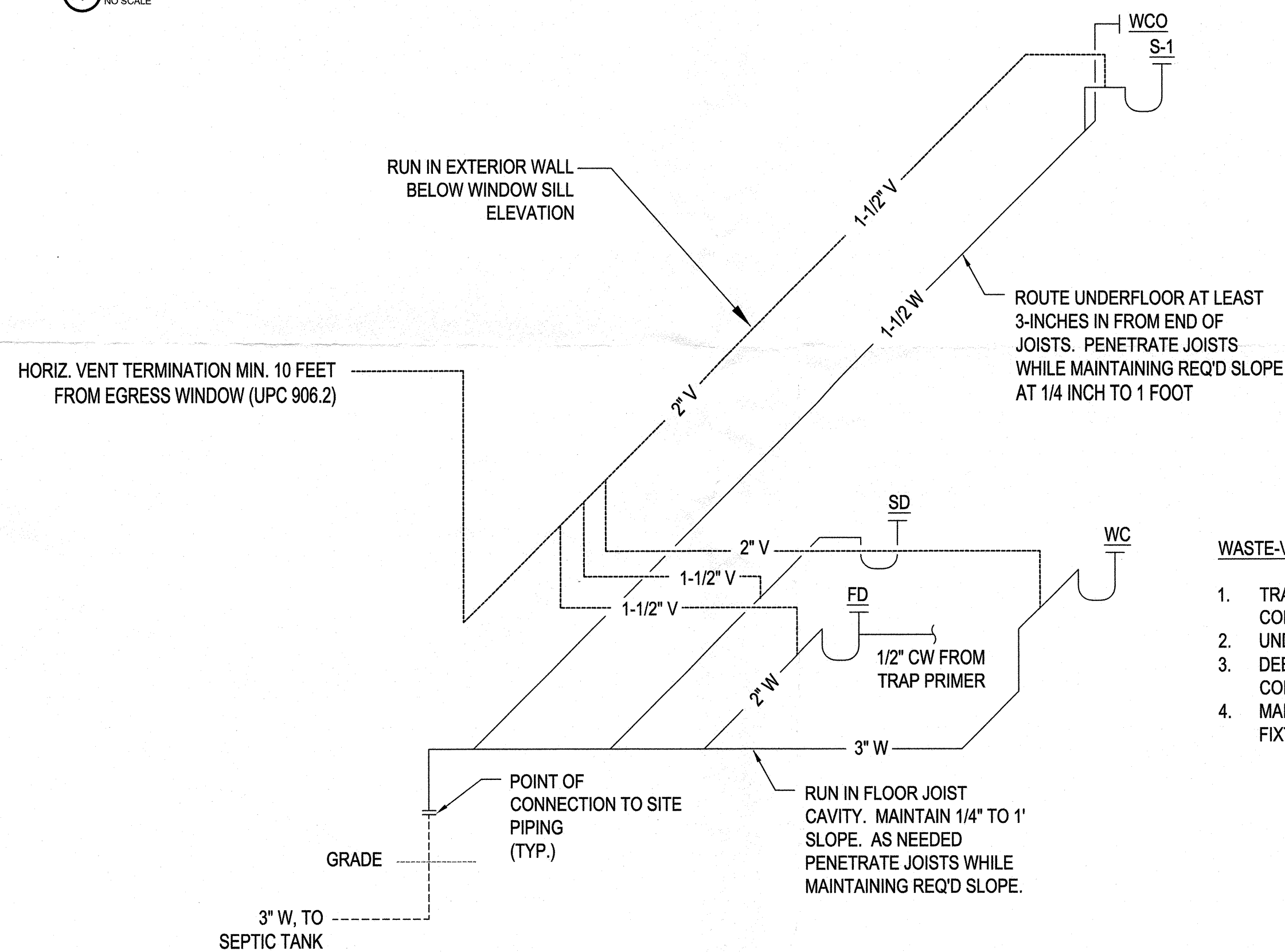
R6 CABIN

L&I PERMIT SET
ELECTRICAL SPECIFICATIONS
JUNE 13, 2018 SCALE: 1/8" = 1'-0" SCALE

E101



1 LPG SCHEMATIC DIAGRAM
 NO SCALE



WASTE AND VENT SCHEDULE

FIXTURE ID	FIXTURE DESCRIPTION	TRAP SIZE	VENT SIZE
S-1	KITCHEN SINK	1-1/2"	1-1/2"
SD	SHOWER DRAIN	2"	1-1/2"
WC	WATER CLOSET	3"	2"
FD	FLOOR DRAIN, 4" DIA.	2"	1-1/2"

WASTE-VENT SYSTEM NOTES:

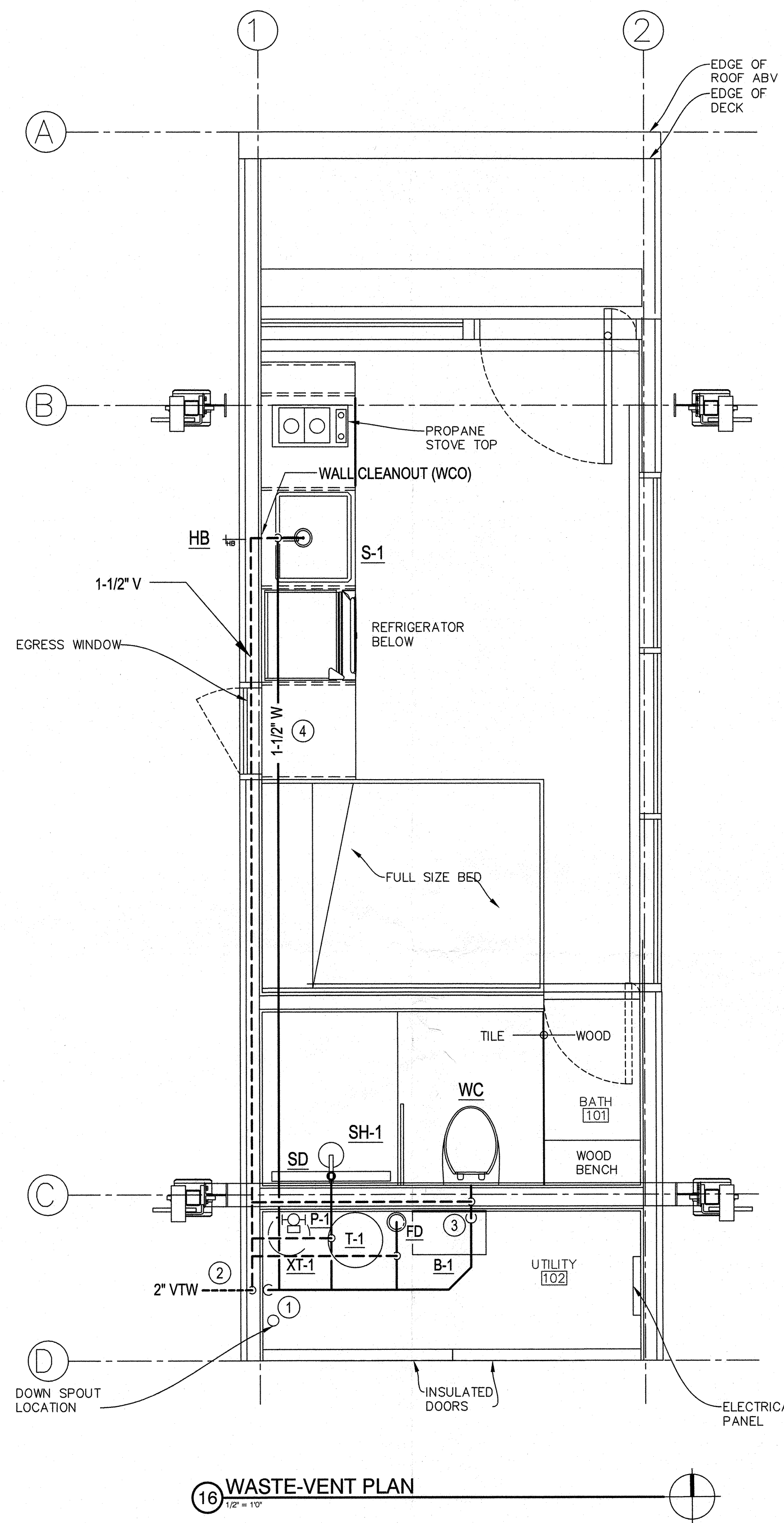
- TRAP ARM LENGTH SHALL BE BETWEEN (2X) TO (4X) PIPE DIA. TO PROVIDE CODE-REQUIRED TRAP SEAL PROTECTION (TYPICAL)
- UNDERFLOOR WASTE PIPING SHALL MAINTAIN UNIFORM SLOPE AT 1/4" TO 1-FOOT (MIN).
- DEEP SEAL P-TRAPS PROVIDED FOR FLOOR AND SHOWER DRAINS SHALL HAVE 1/2" CONNECTION FOR TRAP PRIMER AS INDICATED.
- MAINTAIN 1/4" TO 1-FOOT SLOPE ON ALL HORIZONTAL VENT RUNS BELOW HIGHEST FIXTURE.

9 WASTE-VENT RISER DIAGRAM
 NO SCALE

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	SIZE / CAPACITY	MFR/MODEL (BASIS OF DESIGN)	NOTES
S-1	KITCHEN SINK	1.75 GPM	SINK: BLANCO QUATRUS 518478; FAUCET: HANSGROHE TALIS S	WSEC 406.2, OPTION 5a
WC	WATER CLOSET, WALL-HUNG	0.8 GPF / 1.28 GPF	BOWL: KOHLER VEIL K-6299; CARRIER: GEBERIT DUOFLUSH SIGMA 111.902.00.5	
SH-1	SHOWER	0.7 TO 1.3 GPM	NEBIA SPA SHOWER; KOHLER K-2972-S MIXING VALVE & K-T73133-4 VALVE TRIM	WSEC 406.2, OPTION 5a
SD-1	SHOWER DRAIN	31.5" X 2.5" X 2" DIA.	NOVALINEA LINEAR SHOWER DRAIN; AQVA DBASE2-PVC 2-INCH BASE	
HB	HOSE BIBB, FREEZE-PROOF HYDRANT	N/A	WATTS LFFHB-1	
FD	FLOOR DRAIN, SHALLOW TRAP TYPE	5-INCH DIA.	DRAIN: ZURN Z451-PC; FUNNEL ATTACHMENT: ZURN Z1724	2" OUTLET, 1/2" TRAP PRIMER CONNECTION

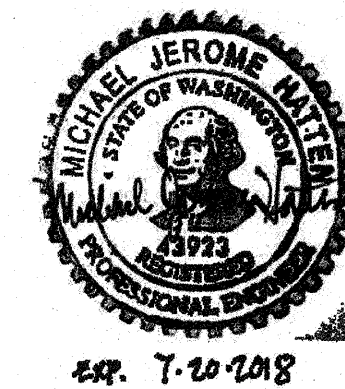
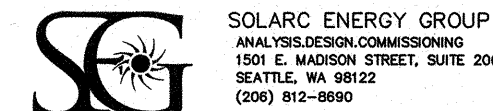
13 PLUMBING FIXTURE SCHEDULE
 NO SCALE



16 WASTE-VENT PLAN
 1/2" = 1'-0"

KEYED SHEET NOTES

- MAKE CONNECTION TO 3" WASTE LINE IN VERTICAL DROP BELOW SUBFLOOR. COORDINATE WITH ARCHITECTURAL CONFIGURATION.
- PENETRATE HORIZONTALLY WITH 2" VENT AT A MIN. DISTANCE OF 10 FEET FROM EDGE OF EGRESS WINDOW.
- COORDINATE 3" WASTE PENETRATION AND ELBOW FROM WALL-HUNG WATER CLOSET WITH PIPING CONNECTIONS BELOW WALL-HUNG BOILER.
- ROUTE 1-1/2" W UNDERFLOOR AT LEAST 3-INCHES INBOARD FROM END OF JOIST. MAINTAIN REQ'D SLOPE.



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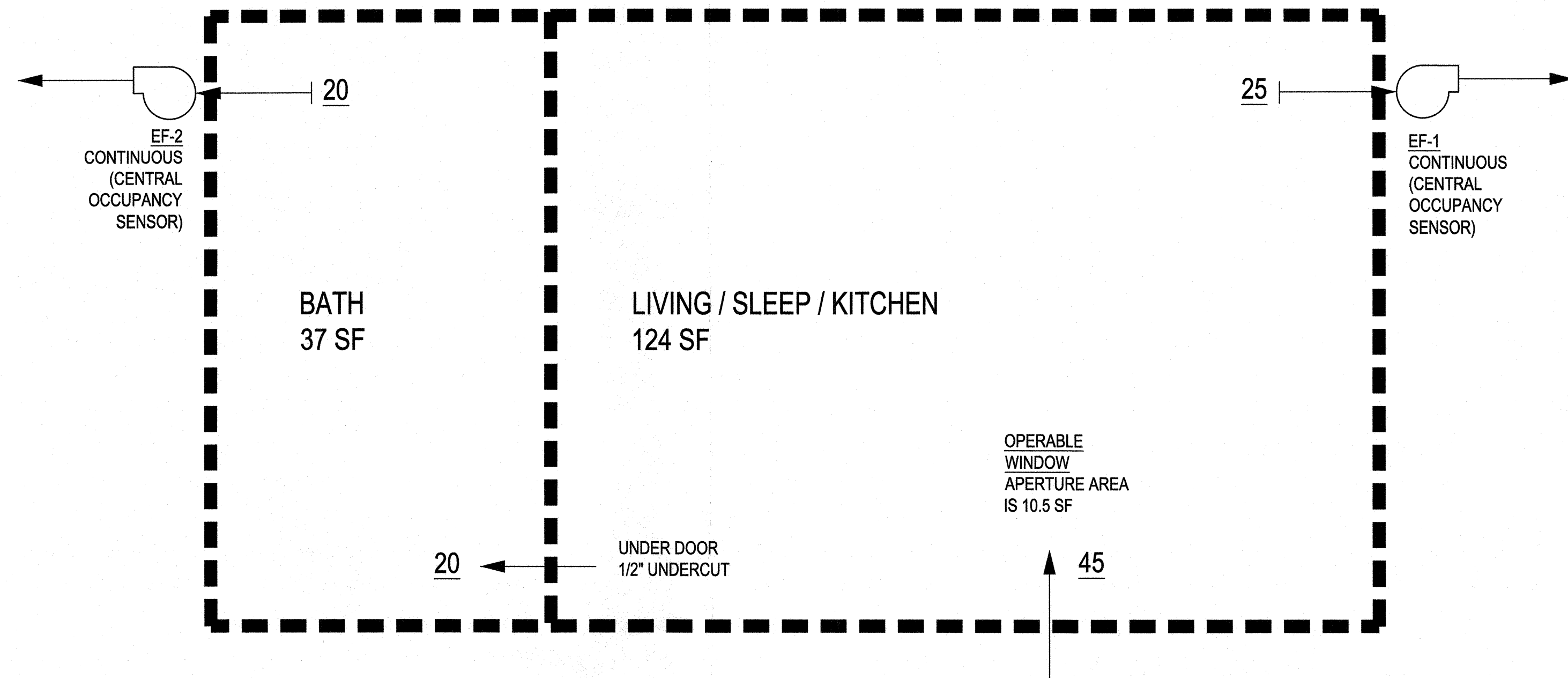
principal architect
 project manager
 drawn by M.H.
 date JUNE 10, 2018
 checked by M.H.
 job no 18-055

revisions

R6 CABIN

L&I PERMIT SET
 WASTE/ VENT PLAN
 JUNE 10, 2018 SCALE: 1/2" = 1'-0" 2234

M101



1 VENTILATION FLOW DIAGRAM
NO SCALE

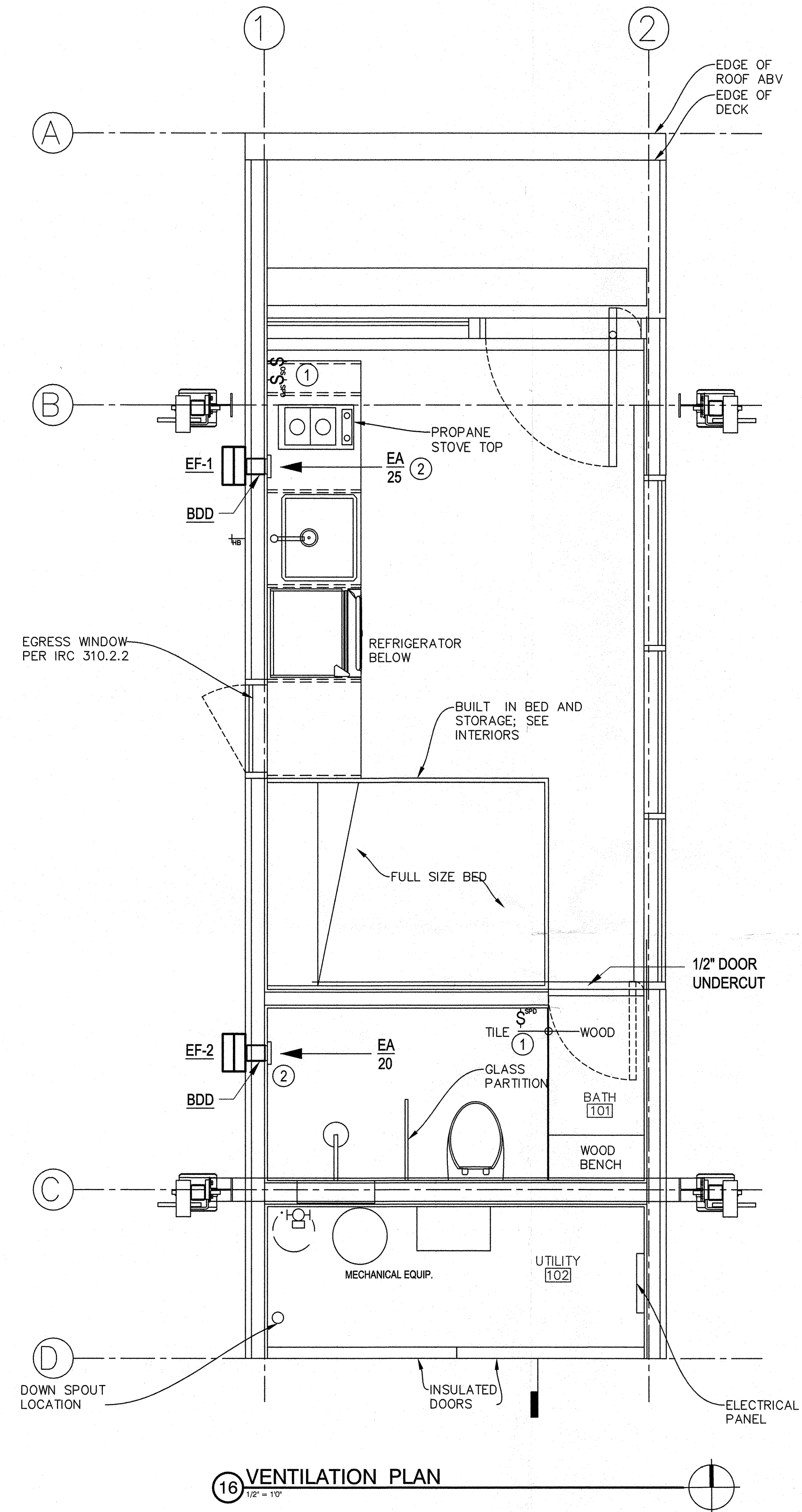
VENTILATION SCHEDULE

ROOM	VENTILATION REQUIREMENT	SERVICE	AIR FLOW, CFM	MAKE-UP SOURCE	VENT. EQUIP.	CONTROL/SENSOR NOTES
KITCHEN	MIN. VENT (CONT.)	EXHAUST	25	OPERABLE WINDOW	EF-1	SPEED CTRL / OCC. SENSOR
BATH	MIN. VENT (CONT.)	EXHAUST	20	1/2" DOOR UNDERCUT	EF-2	SPEED CTRL / OCC. SENSOR

VENTILATION EQUIPMENT LIST

TAG	DESCRIPTION	FUNCTION	SIZE / CAPACITY	MFR/MODEL (BASIS OF DESIGN)	ELECTRICAL (WATTS / VOLTS / PH)	NOTES
EF-1	WALL-MOUNT EXTERIOR EXHAUST FAN	KITCHEN EXHAUST / MIN. VENTILATION	25 CFM (120 CFM, 0.1" WC, 3060 RPM)	FANTECH RVF 4	18 W / 120 V / 1 PH	VARIABLE SPEED CONTROLLER
EF-2	WALL-MOUNT EXTERIOR EXHAUST FAN	BATHROOM EXHAUST / MIN VENTILATION	20 CFM (120 CFM, 0.1" WC, 3060 RPM)	FANTECH RVF 4	18 W / 120 V / 1 PH	VARIABLE SPEED CONTROLLER
BDD	IN-LINE BACKDRAFT DAMPER	EXHAUST FAN BACKDRAFT CONTROL	4-INCH DIA., MIN. PRESSURE DROP	ALDES CAPE BDD	--	

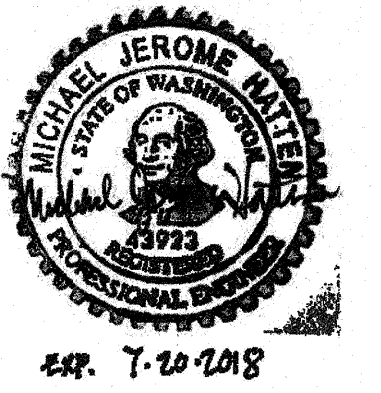
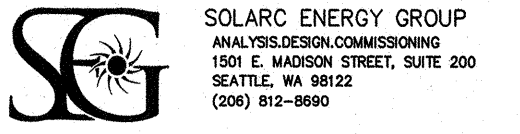
13 VENTILATION SCHEDULES
NO SCALE



16 VENTILATION PLAN
1/2" = 1'-0"

KEYED SHEET NOTES

- EF-1 AND 2 FLOW RATE CONTROLLED BY SPEED CONTROLLER. SET TO MATCH FLOW RATED AS SCHEDULED. WIRE OCCUPANCY SENSOR SWITCH IN SERIES WITH SPEED CONTROLLERS TO INITIATE CONTINUOUS VENTILATION WHEN OCCUPIED, SUBJECT TO MAXIMUM TIME DELAY OFF, UPON INDICATION OF NO OCCUPANCY. SEE ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR PHYSICAL CONFIGURATION OF OCCUPANCY SENSOR AND SPEED SWITCH.
- 4-INCH DESIGNER EXHAUST INLET GRILLE, WHITE-FINISHED METAL OR STAINLESS STEEL. FANTECH MGE4, OR AS OTHERWISE APPROVED BY ARCHITECT.



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date JUNE 10, 2018
checked by MHI
job no 18-055

revisions

R6 CABIN

L&I PERMIT SET
VENTILATION PLAN 13

JUNE 10, 2018 SCALE: 1/2" = 1'-0" (SEE SHEET 13)

M102

Part 1 - General

1.01 CONTRACT CONDITIONS

- A. The housing unit is being prefabricated and will be installed on site under a separate contract. Unit will be completely self-contained and will interface to site utilities at the points of connection for LPG, sewer, and potable water, as indicated.

1.02 REFERENCE STANDARDS

- A. The following specifications and standards are incorporated herein by reference: 2015 Uniform Plumbing Code with Washington State Amendments, 2015 International Mechanical Code with Washington State Amendments, 2015 Washington State Energy Code.

Part 2 - Products

2.01 PIPING

A. WATER DISTRIBUTION PIPING SYSTEMS (ABOVE GROUND)

- 1. Tube: ASTM B 88 Type M, hard temper
- 2. Fittings: ASME B16.18, ASME B16.22, ASME B16.26, ASME B16.50
- 3. Joints: Soldered, Brazed, Flared, Press-Connect or Push-Fit. ASTM B 32. Alloy Sn50 shall not be used.

B. SOIL, WASTE, AND VENT PIPING SYSTEMS (ABOVE GROUND)

- 1. Pipe: PVC, ASTM D2729.
- 2. Fittings: PVC.
- 3. Joints: Solvent welded, with ASTM D2564 solvent cement.

C. HYDRONIC HEATING PIPING SYSTEMS (ABOVE GROUND)

- 1. Tube: ASTM B 88 Type M, hard temper
- 2. Fittings: ASME B16.18, ASME B16.22, ASME B16.26, ASME B16.50
- 3. Joints: Soldered, Brazed, Flared, Press-Connect or Push-Fit. ASTM B 32 Alloy Sn50 shall not be used.

D. CONDENSATE DRAIN PIPING (ACIDIC)

- 1. Pipe: PVC, Schedule 40.
- 2. Fittings: PVC.
- 3. Joints: Solvent welded, or threaded.

E. FUEL GAS DISTRIBUTION PIPING SYSTEMS (NATURAL AND LP GAS)

- 1. Tube: ASTM B 88, Type L, ASTM B 260, Type ACR or ASTM B 837, Type GAS
- 2. Fittings: ASME B16.18, ASME B16.22, ASME B16.26
- 3. Joints: Brazed or Flared. Flared joints shall not be used in concealed locations. Brazing filler metal shall be AWS A5.8 BAg Series.

2.02 METERS AND GAGES

A. PRESSURE GAGES: Drawn steel case, phosphor bronze bourdon tube, rotary brass movement, brass socket, with front recalibration adjustment, black scale on white background. Case: Steel with brass bourdon tube; Size: 4-1/2 inch diameter; Mid-Scale Accuracy: One percent; Scale: Psi and KPa.

B. THERMOMETERS: Fixed Mounting: Dial type bimetallic actuated; ASTM E1; stainless steel case, silicone fluid damping, white with black markings and black pointer, hermetically sealed lens, stainless steel stem. Size: 5 inch diameter dial. Lens: Clear glass. Accuracy: 1 percent. Scale: Degrees F.

2.03 VALVES

A. TEMPERATURE AND PRESSURE RELIEF VALVE: AGA Z21.22 certified, bronze body, teflon seat, stainless steel stem and springs, automatic, direct pressure actuated, temperature relief maximum 210 degrees F, capacity ASME BPVC-IV certified and labelled.

B. BALL VALVES: One Piece with Brass Trim; CWP Rating: 400 psig. Body: Forged brass. Ends: Threaded. Seats: PTFE. Stem: Brass. Ball: Chrome-plated brass.

2.04 THERMOSTAT AND CONTROL DEVICES

- A. THERMOSTAT: Nest E, or Ecobee smart programmable thermostat.
- B. CONTROL CABINET: NEMA 1, 18"H x 18" W, Steel housing. Full hinge, key latch door.

Part 3 - Execution

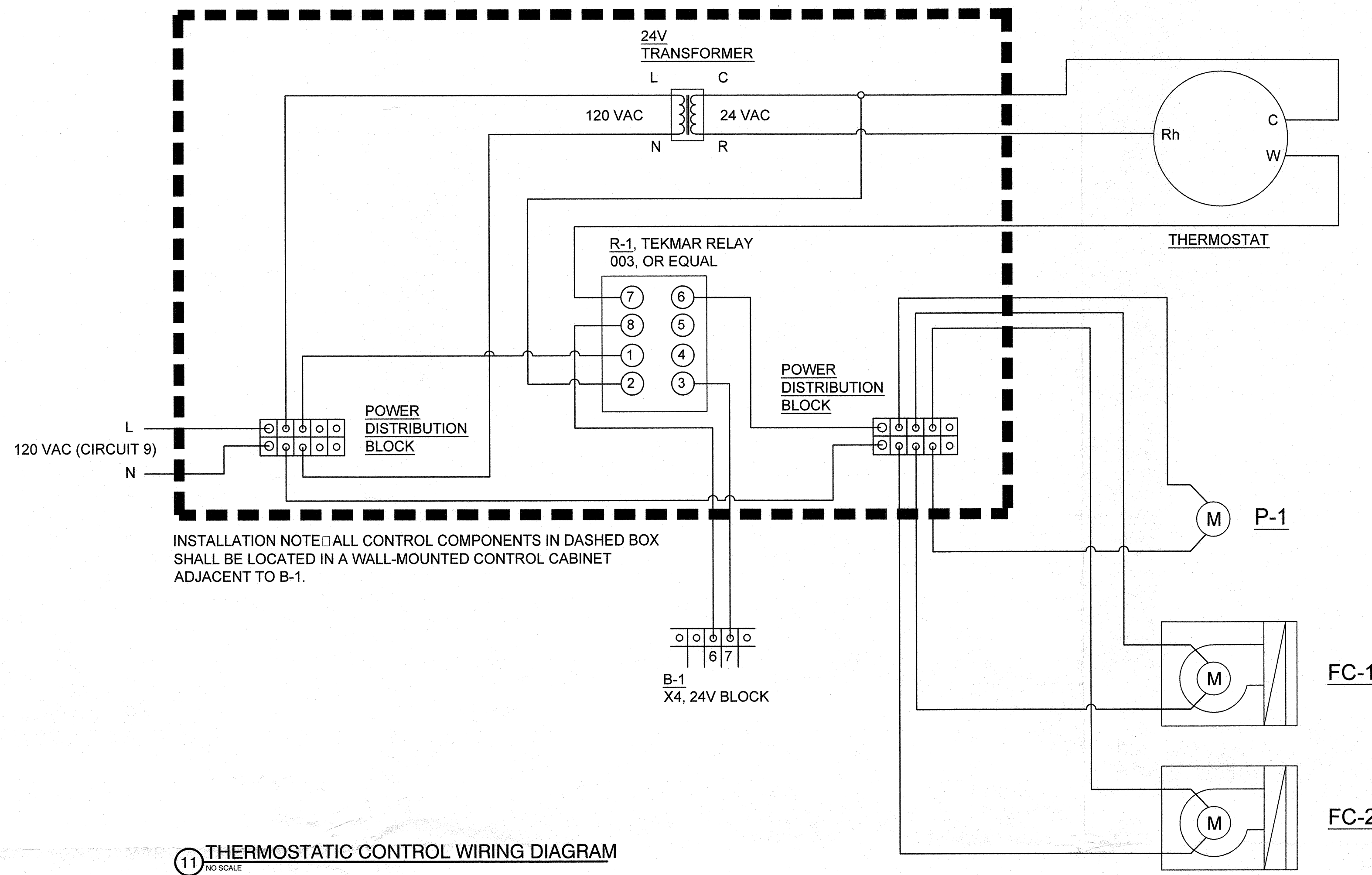
3.01 GENERAL

- A. Install as indicated in Drawings and in compliance with Reference Standards.
- B. Install meters and gages in location and manner where gage is accessible and can be read without difficulty.

3.02 FUEL GAS PIPING

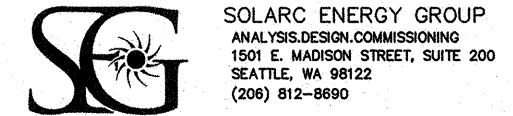
- A. Copper fuel gas piping running parallel to floor joists shall be fastened to the center of the vertical face of the joist with clips not more than 6 feet apart.
- B. Copper fuel gas piping running at right angles or diagonal to floor joists or other framing members may be installed through holes drilled through the center of the member. These holes shall be at least 1 times the O.D. of the tube. If the holes are less than 1" from the exposed edge of the member, steel striker plates of at least 0.0508" thickness shall be installed to protect the tube.
- C. Copper fuel gas piping running through holes or sleeves in framing members shall be protected from abrasion in the area of the hole or sleeve by wrapping the tube with an approved tape or other approved means of protection.
- D. Copper fuel gas piping running vertically through partition walls shall be protected by installing steel striker plates of at least 0.0508" thickness at the upper and lower wall plates. Striker plates shall extend a minimum of 4" above and below such wall plates.
- E. Branches in horizontal fuel gas piping shall be installed on the side or top of the run pipe at a position at or above the horizontal centerline of the run pipe. Branches for appliance drops may be installed below the horizontal centerline of the run pipe provided an approved drip leg or dirt trap is installed in the drop.

13 MECHANICAL SPECIFICATIONS
NO SCALE



11 THERMOSTATIC CONTROL WIRING DIAGRAM
NO SCALE

INSTALLATION NOTE: ALL CONTROL COMPONENTS IN DASHED BOX SHALL BE LOCATED IN A WALL-MOUNTED CONTROL CABINET ADJACENT TO B-1.



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job no 18-055

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R6 CABIN

L&I PERMIT SET
MECHANICAL SPECIFICATIONS
JUNE 10, 2018

M103
SUBJECT TO CODE AND FIELD INSPECTION
01/17/2018