

**REVIEWED
FOR
CODE
COMPLIANCE**
08/16/2022



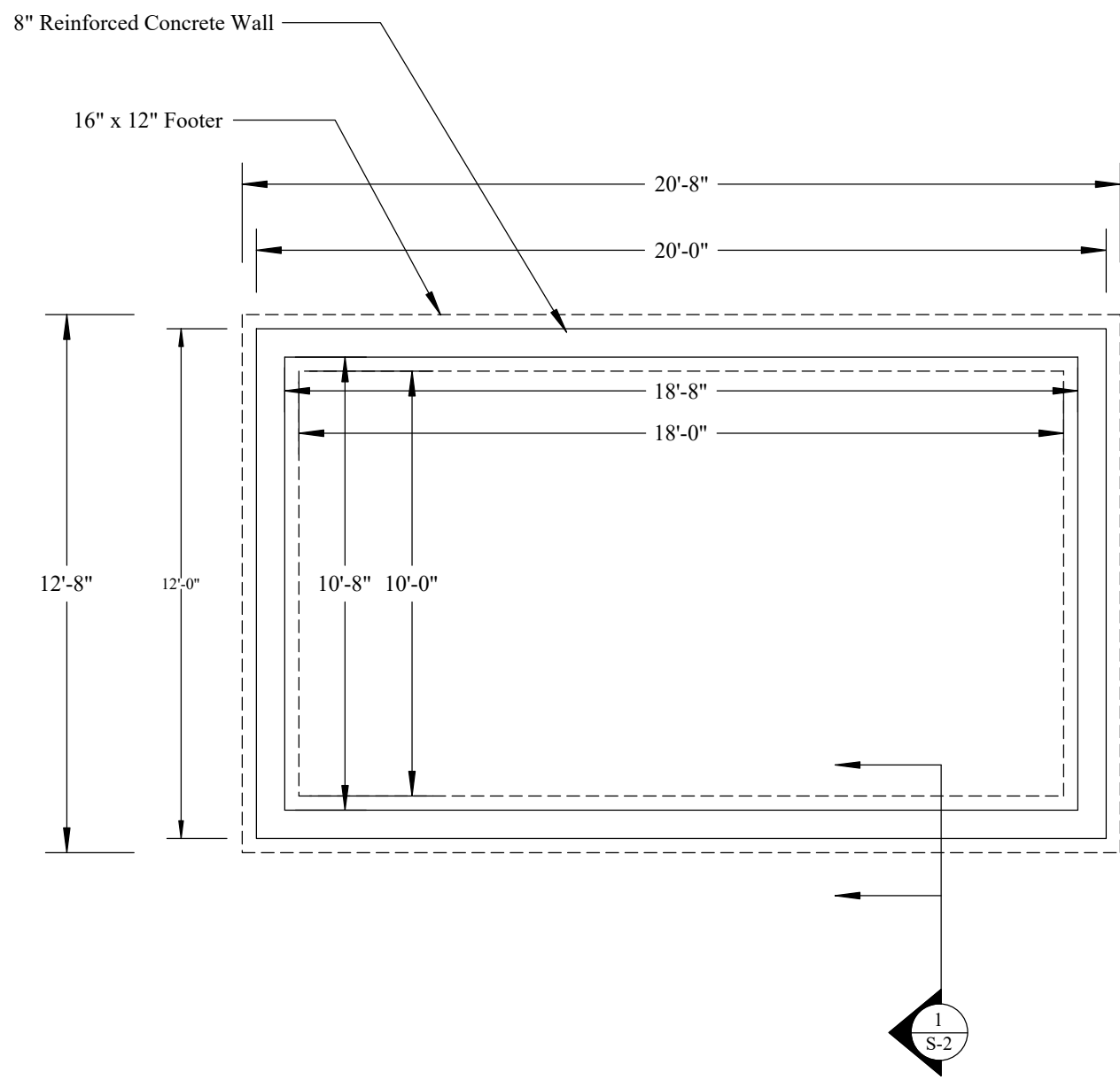
SHEET: 4 of 6

S-1

TITLE:
CPX BOTTOM LIFT HOUSE FRAMING

SCALE: 1/4" = 1'	DESIGNED BY: VTS
TEXT: 1.000	DATE: FEB 2022
ARROW: 0.700	
OTHER: 0.250	
FILE: cpxbotframingS1.tcw	REVISED DATE: JULY 2022

CHRISTIE PEAK BOTTOM LIFT HOUSE: FRAMING



FOUNDATION PLAN VIEW

Coordinate any required changes in foundation for existing chairlift foundation with engineer prior to construction.

NOTES:

-DESIGN LIVE LOADS

- Ground Snow Load.... 116 psf
- Roofs..... 95 psf
- Floors..... 50 psf
- Wind..... 115 mph (3 sec gust), exposure "B"
- Seismic..... IBC Design Category C

-FOUNDATION DESIGN

- Design of individual and continuous footings is based on an assumed maximum allowable bearing pressure of 2500 psf dead load plus live load placed on natural undisturbed, or compacted soil below frost depth.

-REINFORCED CONCRETE

- Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type 1, (4000 psi slab).
- Reinforcing bar shall conform to ASTM Specifications A615-79 and shall be grade 40 or 60.
- At splices, lap bars 36 diameters, At corners and interseactions, make horizontal bars continuous or provide matching corner bars.

-STRUCTURAL STEEL

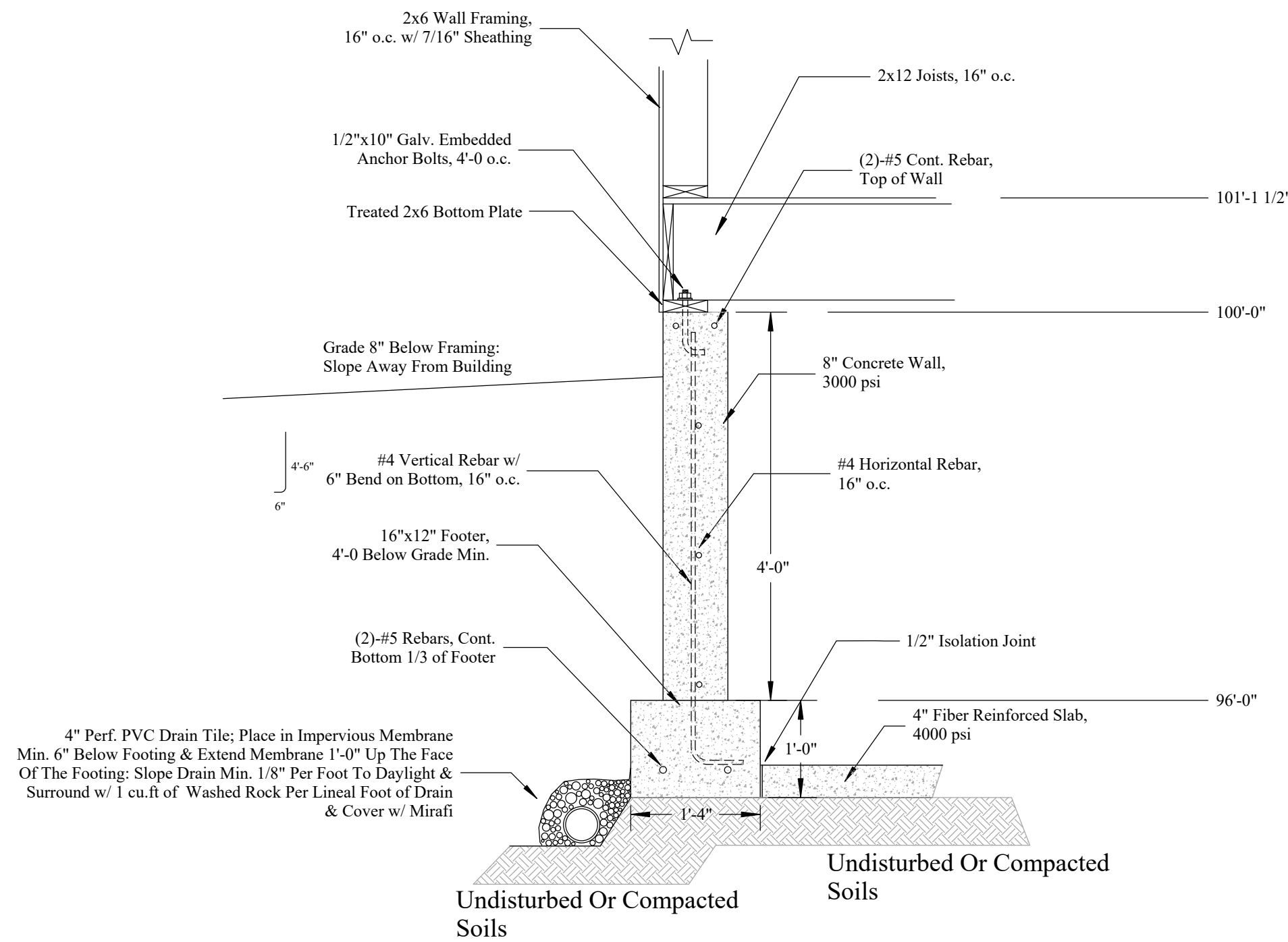
- Structural steel rolled shapes, including plates and angles shall be ASTM A572. Tube shapes shall conform to ASTM A500 Grade B, 46 ksi yield. Pipes shall conform to ASTM A53, Grade B.
- All bolts, including anchor bolts shall conform to ASTM specification A307.
- Expansion bolts called for in the drawings shall be "WEG-IT", "RED HEAD", or approved wedge type, with the following embedments: 5/8" diameter bolts - 2", 1/2" diameter bolts - 1 1/2".
- All welding shall be done by a certified welder.

-STRUCTURAL WOOD FRAMING

- Except where noted otherwise, all 2" lumber shall be Douglas Fir-Larch S4S No. 2 or better, and all solid timber beams and posts shall be Douglas Fir-Larch No.1.
- Except as noted otherwise, minimum nailing schedule shall be provided as specified in Table 2304.10.1 "Fastening Schedule of the I.B.C., 2018 Edition.
- Floor and roof sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
- Where light gauge framing anchors are shown or required, they shall be Simpson "Strong Tie" or equal IBCO approved connectors and shall be installed with the type and number of nails recommended by the manufacturer to develop the rated capacity.
- Glue Laminated timber shall be of such a stress grade to provide glues laminated beams with combination symbol 24F-V4.
- Laminated Veneer Lumber shall be of such a stress grade to provide members with allowable fiber stress in bending = 2600 psi, modulus of elasticity of 1.9x10⁶ psi, and allowable shear stress parallel to the glue line = 285 psi.
- Roof and floor joists shall be plant fabricated I-series with LVL wood flanges and plywood or OSB webs, and carry ICBO approval for the composite section. Joists shall be designed to carry the full dead and live loads of the roof and floor and any other superimposed loads. Bridging and blocking shall be installed according to the fabricator's requirements.

-BACK FILLING

- Do not back fill against basement or retaining walls until supporting slabs and floor framing are in place and securely anchored.



SECTION Scale: 3/4" = 1'

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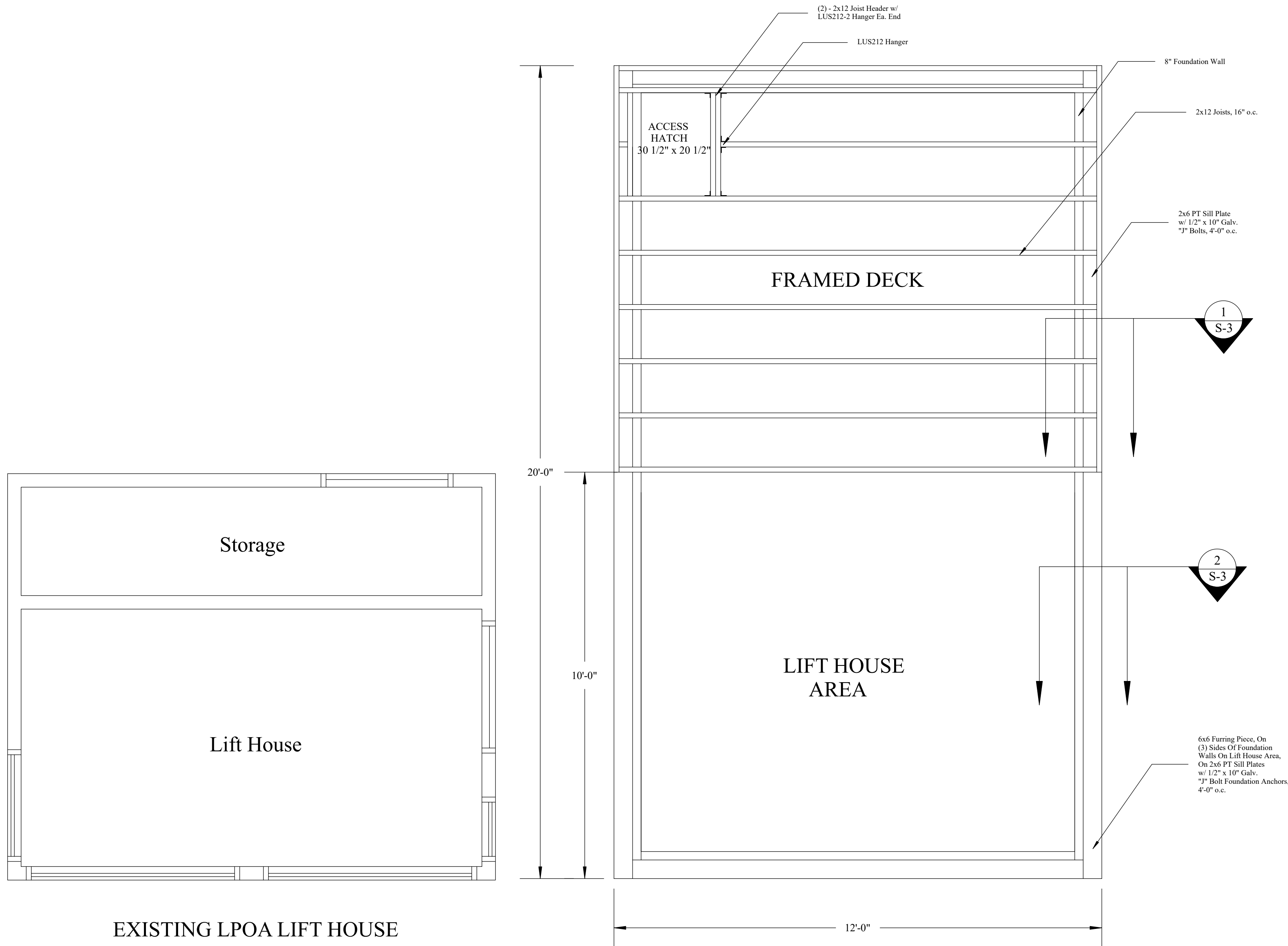


SHEET: 5 of 6

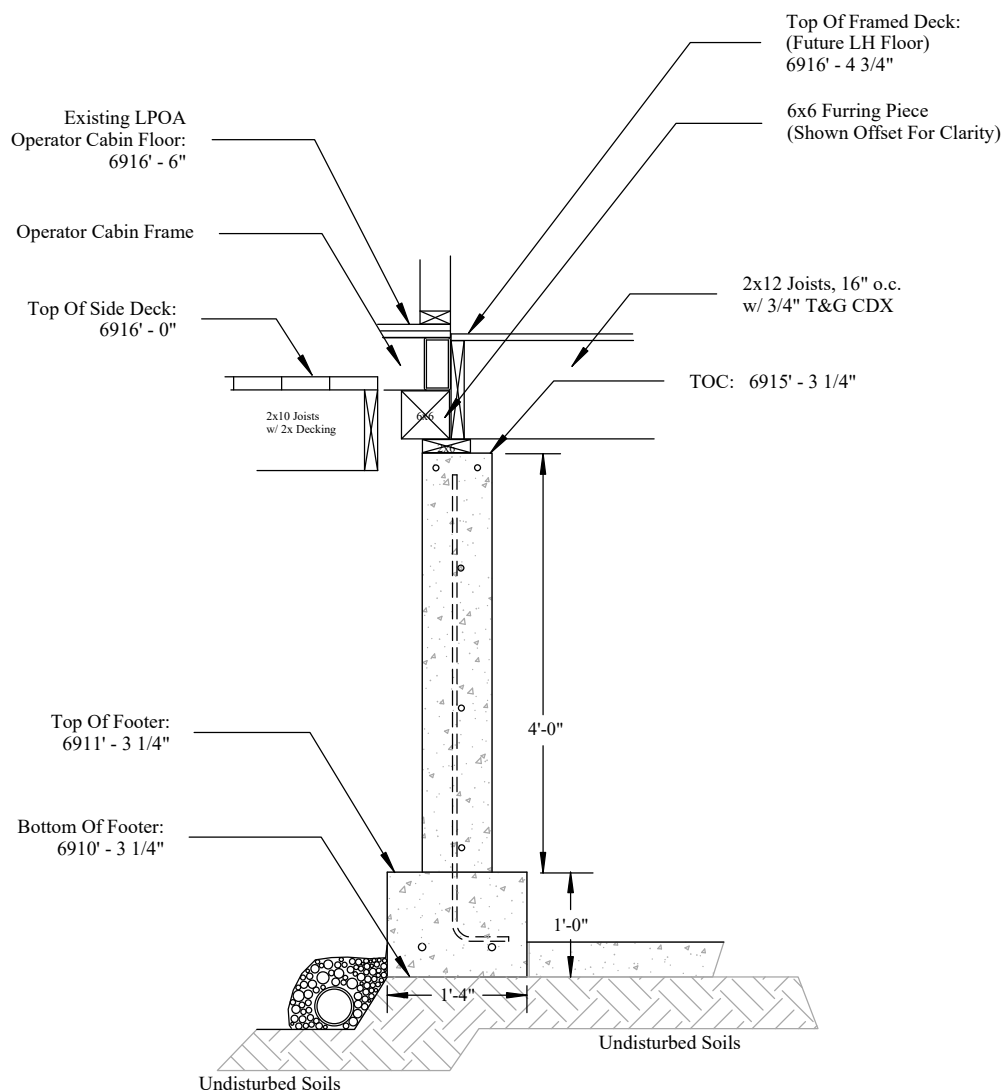
S-2

CHRISTIE PEAK BOTTOM LIFT HOUSE FOUNDATION

TITLE: CHRISTIE PEAK BOTTOM LIFT HOUSE			
SCALE: 1/4" = 1'		DESIGNED BY: VTS	
TEXT: 1.000		DATE: FEB 2022	
ARROW: 0.700		REVISED DATE: JULY 2022	
OTHER: 0.250			
FILE: cpxbotfndS2.tcw			



EXISTING LPOA LIFT HOUSE



Elevation Comparison

(*Some componets shown rotated or offsel for clarity)

SCOPE & FUNCTION:

Create a foundation that will work with the existing Christie Peak lift house, but that is adequate to accept a larger structure in the future. Place the existing CPX building on the front half of the foundation, and then cover the back half with the future floor of the new lift house as a waterproof deck. When ready, remove the lift house and build a new structure on the now existing foundation.

This alternate foundation would be approximately double in size, would consist of a reinforced 8" concrete wall (4'-0" in height). An access hatch would be provided in the framed deck.

NOTES:

-DESIGN LIVE LOADS

- Deck/Floors.....100 psf

-FOUNDATION DESIGN

- Design of individual and continuous footings is based on an assumed maximum allowable bearing pressure of 2500 psf dead load plus live load placed on natural undisturbed soil below frost depth.

-REINFORCED CONCRETE

- Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type I, (4000 psi slab).
- Reinforcing bar shall conform to ASTM Specifications A615-79 and shall be grade 40 or 60.
- At splices, lap bars 36 diameters, At corners and interesections, make horizontal bars continuous or provide matching corner bars. Around openings in walls or slabs, provide (2) - #5 extend 2'-0 beyond edge of opening.

- STRUCTURAL STEEL

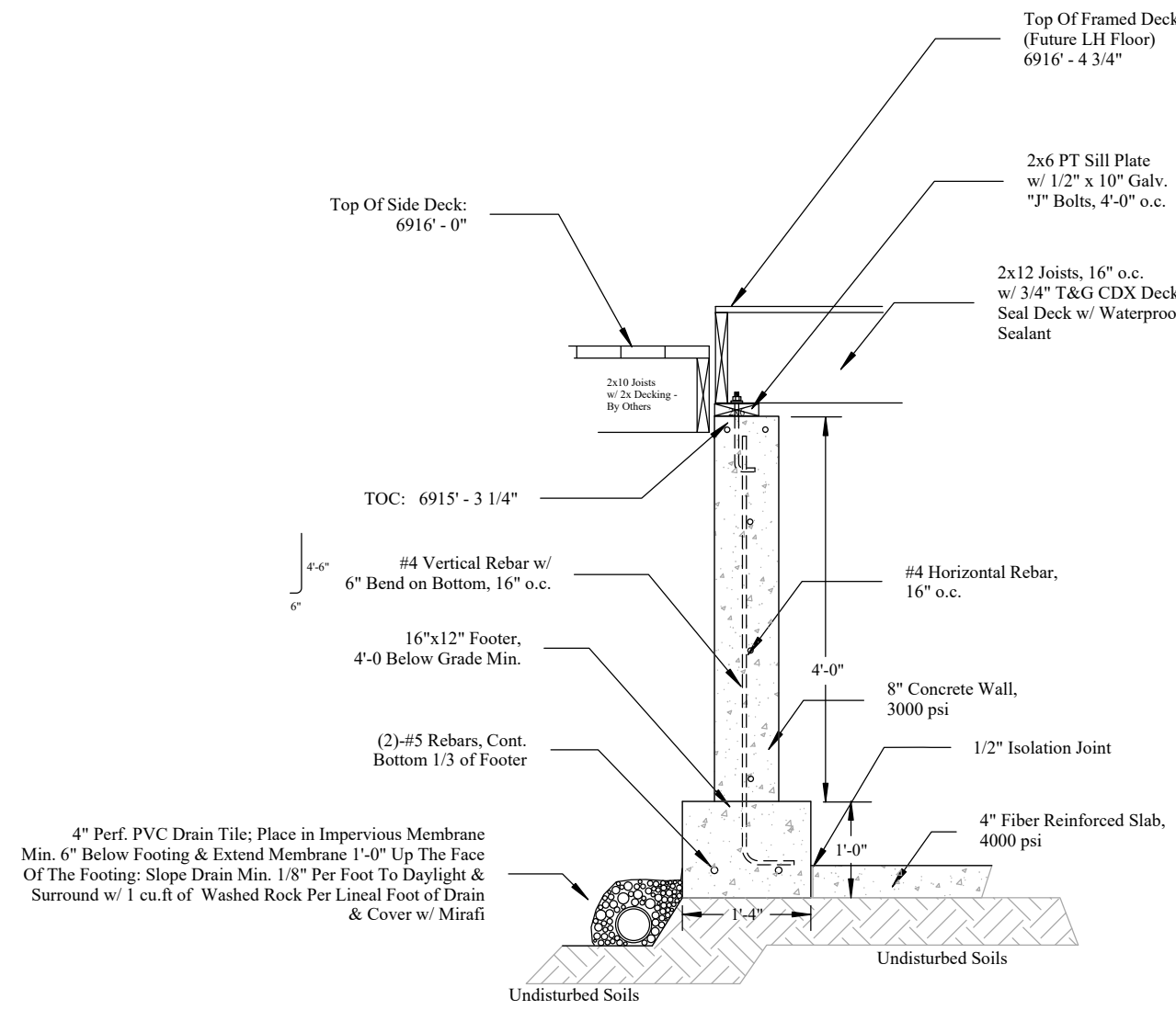
- Structural steel rolled shapes, including plates and angles shall be ASTM A572. Tube shapes shall conform to ASTM A500 Grade B., 46 ksi yield. Pipes shall conform to ASTM A53, Grade B.
- All bolts, including anchor bolts shall conform to ASTM specification A307.
- Expansion bolts called for in the drawings shall be "WEG-IT", "RED HEAD", or approved wedge type, with the following embedments: 5/8" diameter bolts - 2", 1/2" diameter bolts - 1 1/2".
- All welding shall be done by a certified welder.

- STRUCTURAL WOOD FRAMING

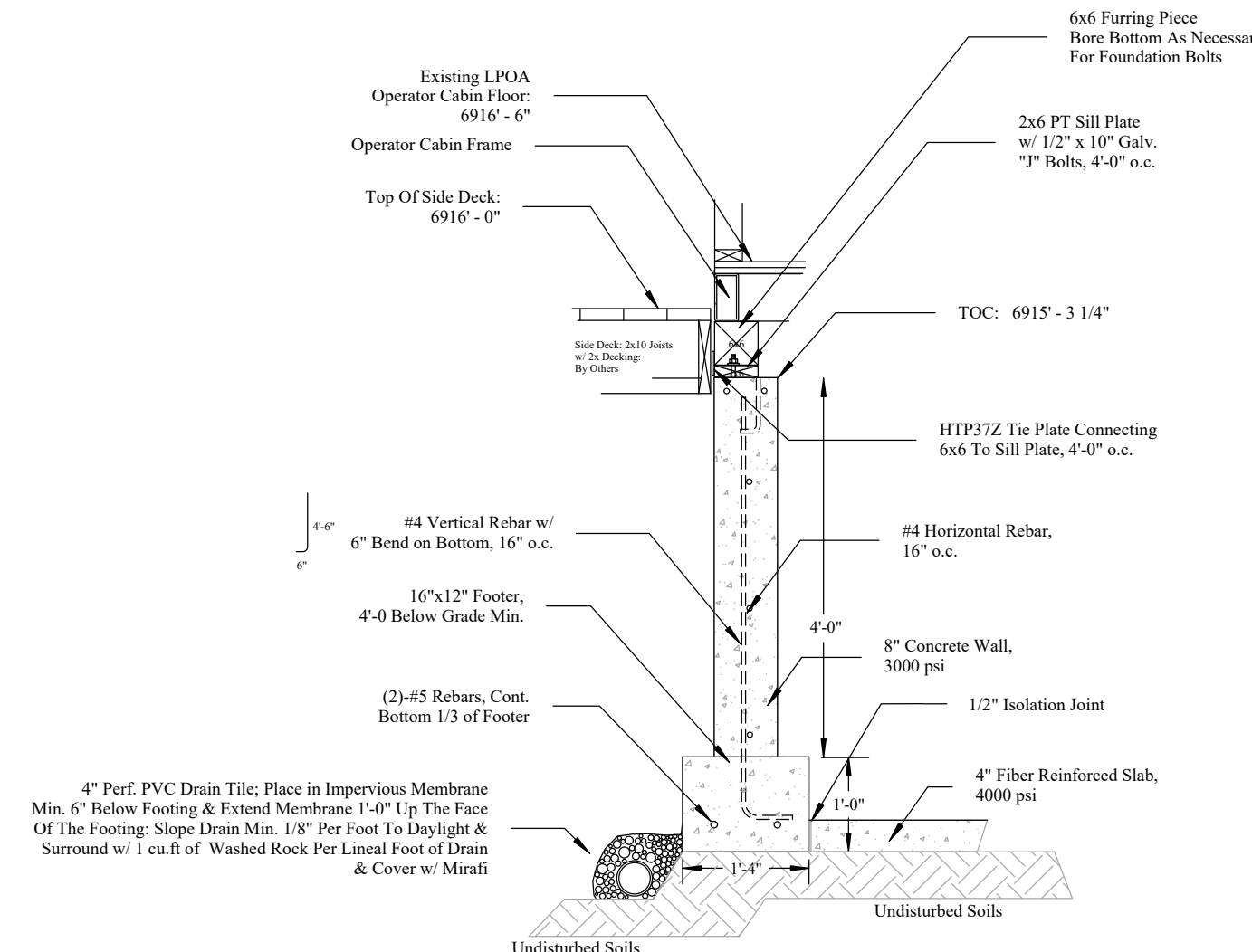
- Except where noted otherwise, all 2" lumber shall be Douglas Fir-Larch S4S No. 2 or better, and all solid timber beams and posts shall be Douglas Fir-Larch No.1.
- Except as noted otherwise, minimum nailing schedule shall be provided as specified in Table 2304.9.1 "Fastening Schedule of the I.B.C., 2009 Edition.
- Floor and roof sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
- Where light gauge framing anchors are shown or required, they shall be Simpson "Strong Tie" or equal IBCO approved connectors and shall be installed with the type and number of nails recommended by the manufacturer to develop the rated capacity.
- Glue Laminated timber shall be of such a stress grade to provide glues laminated beams with combination symbol 24F-V4.
- Laminated Veneer Lumber shall be of such a stress grade to provide members with allowable fiber stress in bending = 2600 psi, modulus of elasticity of 1.9x10(6) psi, and allowable shear stress parallel to the glue line = 285 psi.
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-BACK FILLING

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SECTION 1 S-3 Scale: 1/4" = 1'-0"



SECTION 2 S-3 Scale: 1/4" = 1'-0"

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SHEET: 6 of 6

S-3

TITLE: CHRISTIE PEAK ALTERNATIVE FOUNDATION	
SCALE: 1/4" = 1'	DESIGNED BY: VTS
TEXT: 0.700	DATE: MAY 2022
ARROW: 1.000	REVISED DATE: JULY 2022
OTHER: 0.250	
FILE: chpeakbotlh.tcw	