

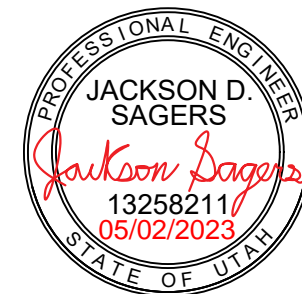
ROPER BUILDINGS

AL MARTINELLI



DRAWING INDEX

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A1	Foundation Plan
A2	First Floor Plan
A3	Framing Plans
A4	Roof Plan
A5	Elevations
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A7	Details
A8	Engineering Notes



CONTACTS

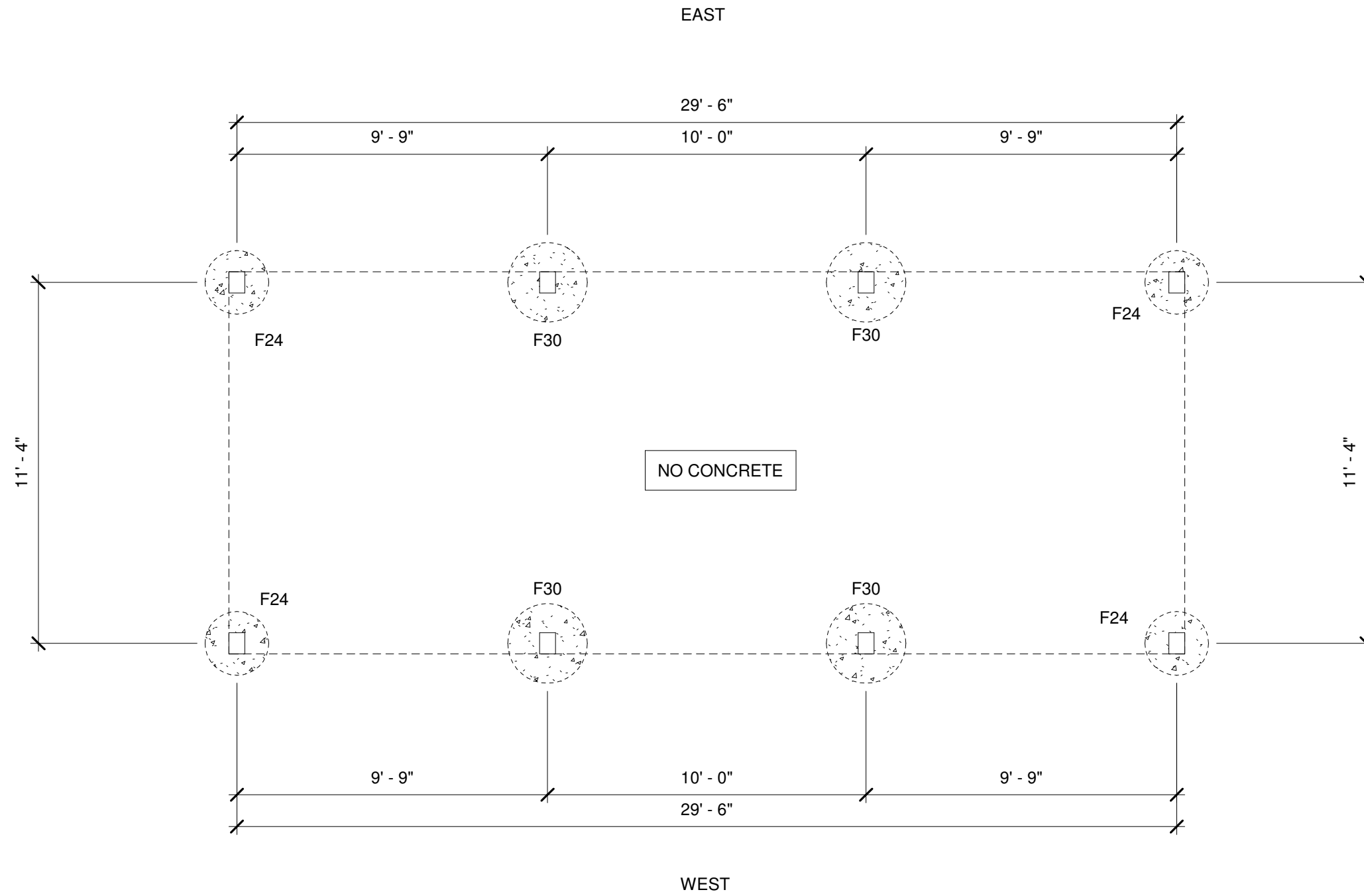
DRAFTING: RAW DESIGN CONTACT: CHRIS CARLTON PHONE: (801) 876-6114	ENGINEERING: WHITE PINE ENGINEERING PHONE: (435) 515-0126	CONTRACTOR: DMLP RESOURCES/ ROPER BUILDINGS PHONE: (801) 689-3630
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BUILDING INFORMATION

BUILDING INFORMATION: DIMENSIONS: 12' x 30' TOTAL SQUARE FOOTAGE: 360 Sq. Ft.	SITE INFORMATION: USE: RV COVER ADDRESS: 41.363725-111.628441 Sourdough, UT
--	--

DATE:
5/2/2023

NORTH



NO CONCRETE

EAST

WEST

SOUTH
(FRONT OF BUILDING)



FOUNDATION PLAN
1/4" = 1'-0"

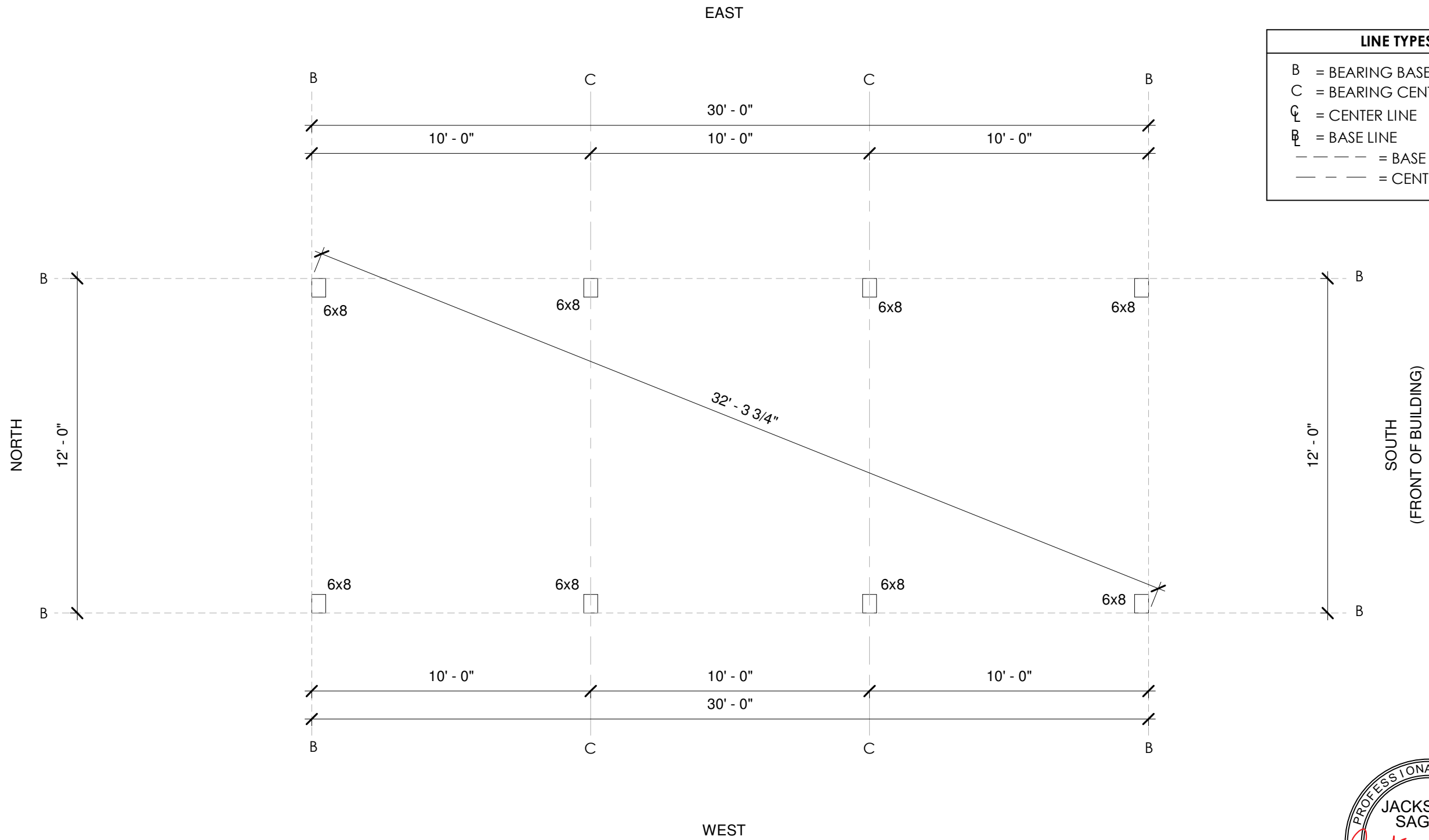
PIERS			
Count	Type	Diameter	Depth
4	F24	2' - 0"	3' - 6"
4	F30	2' - 6"	3' - 4"

DMLP RESOURCES/
ROPER BUILDINGS
(801) 689-3630

AL MARTINELLI
41.363725-111.628441
Sourdough, UT

Date: 5/2/2023
Scale: 1/4" = 1'-0"
Drawn by: CBC
Job: MARTINELLI
Foundation Plan

A1



LINE TYPES	
B	= BEARING BASE LINE
C	= BEARING CENTER LINE
CL	= CENTER LINE
BL	= BASE LINE
- - - -	= BASE LINE
- . - . -	= CENTER LINE

INSULATION		
ROOF	WALLS	ROLLS
NONE	NONE	0

NOTE: ALL POSTS ARE TREATED HF #1 UNLESS OTHERWISE SPECIFIED.
 -POST OPTION-: TRIAD 4-PLY 2x8 LAMINATED TREATED POSTS.



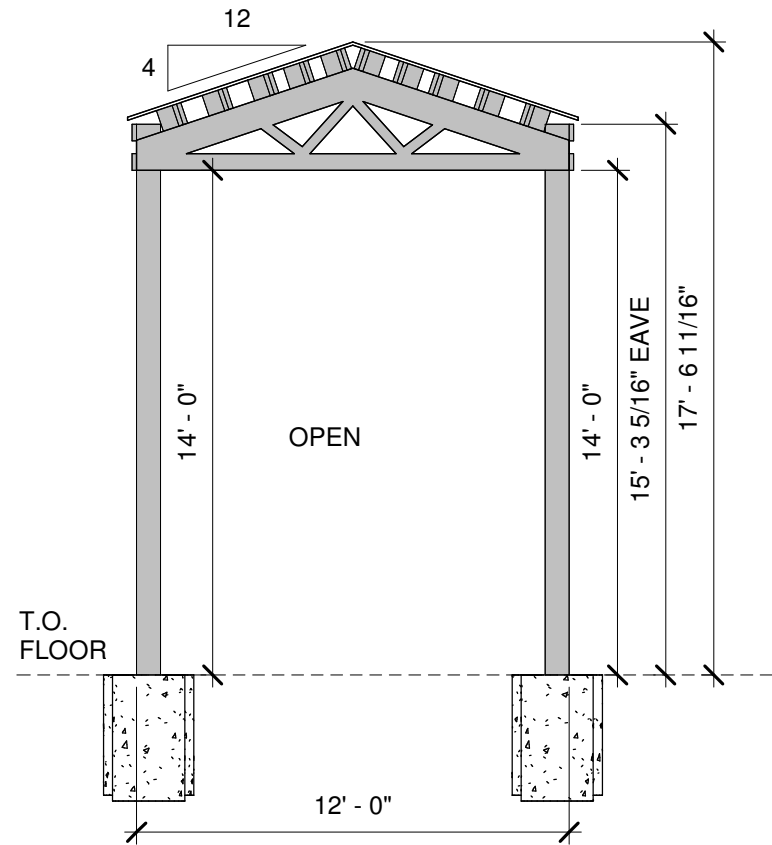
FLOOR PLAN
 1/4" = 1'-0"

- NOTES:**
1. EMBED POST INTO CONCRETE PIER. SEE DETAIL ON SHEET A7.
 2. WALLS: OPEN WALLS W/ STANDARD GIRTS ABOVE CLEAR, 29 GA. STEEL PANEL.
 3. POSTS ARE STEEL WRAPPED.

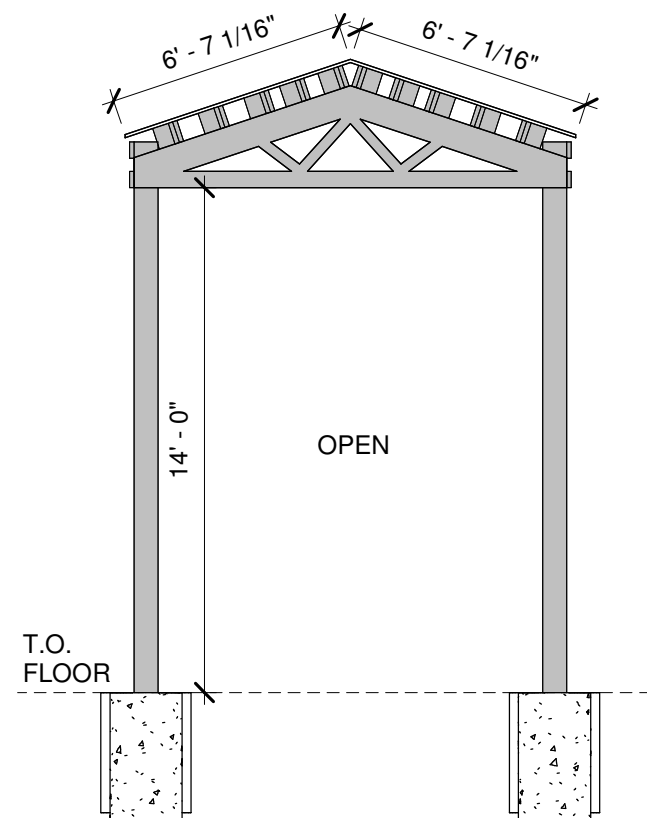
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 Sourdough, UT

Date: 5/2/2023
 Scale: 1/4" = 1'-0"
 Drawn by: CBC
 Job: MARTINELLI
 First Floor Plan
A2

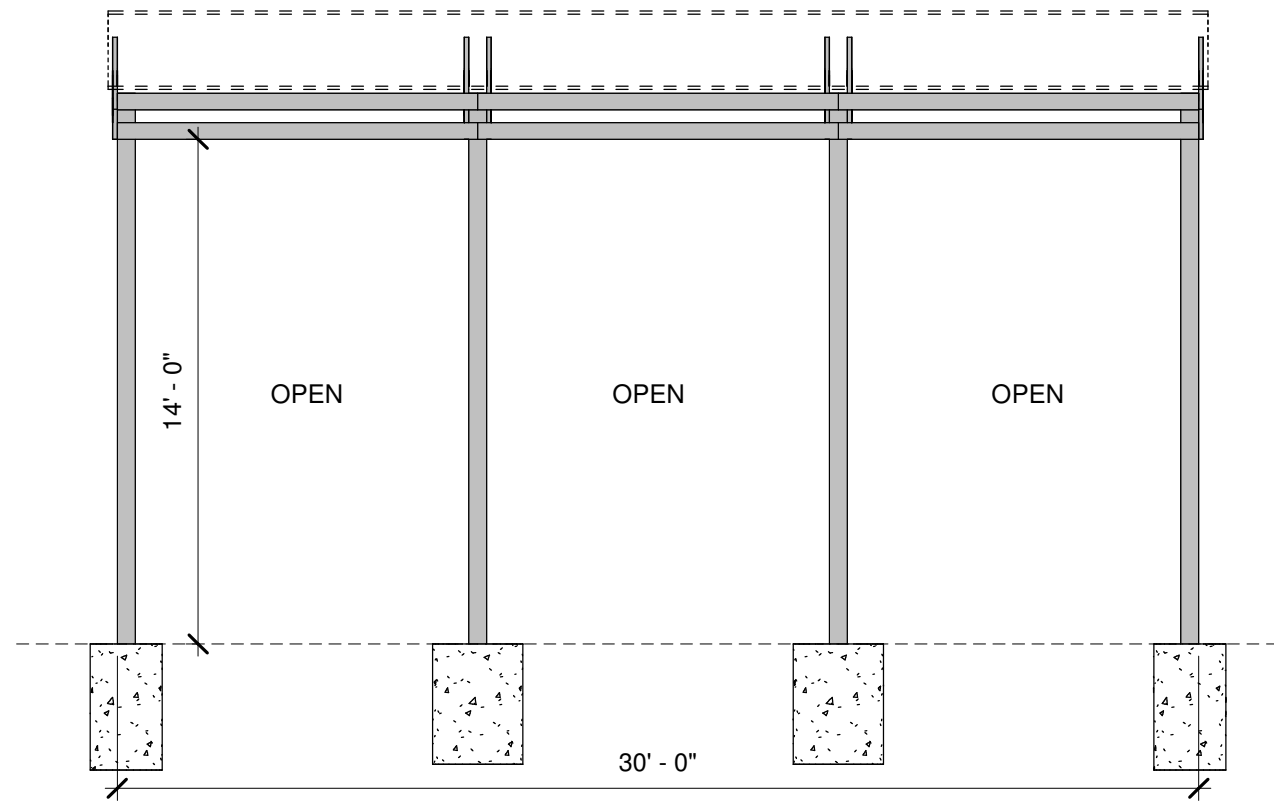


① SOUTH GIRT
3/16" = 1'-0"

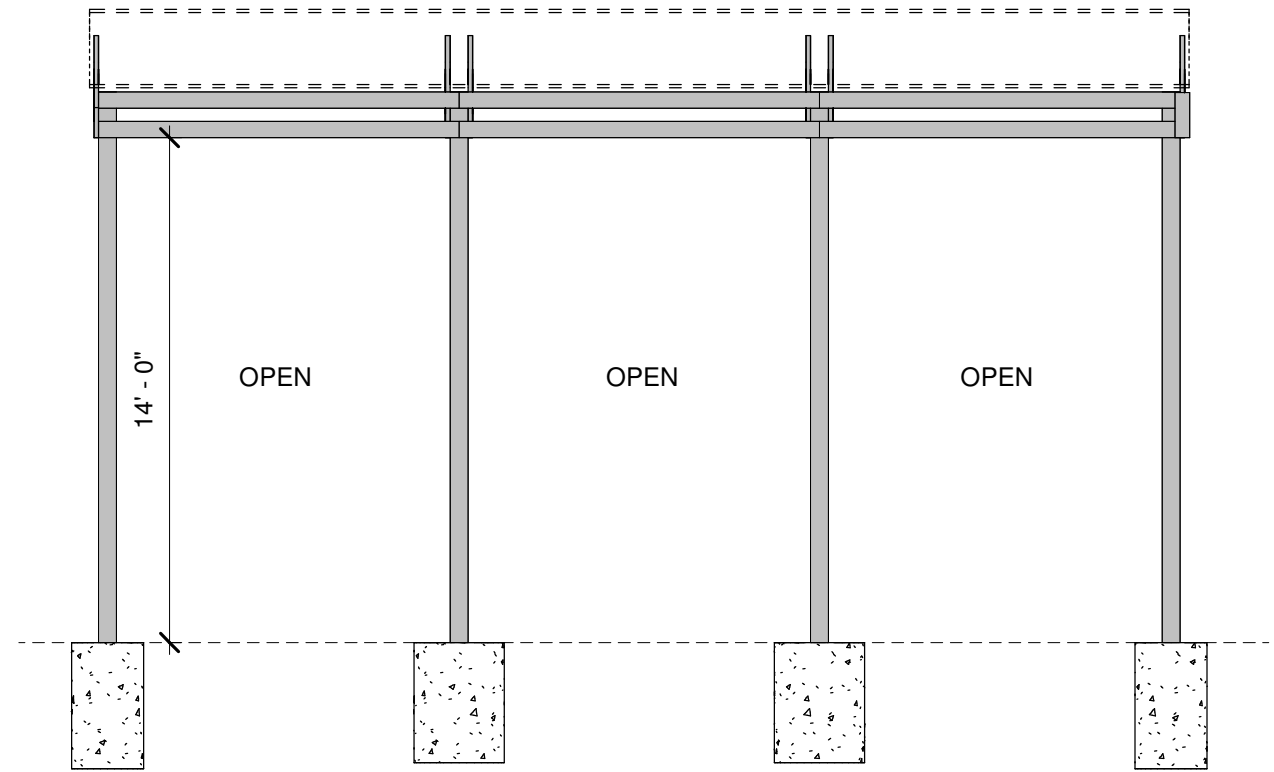


③ NORTH GIRT
3/16" = 1'-0"

PURLINS NOT SHOWN
ON EAVE VIEWS FOR
CLARITY



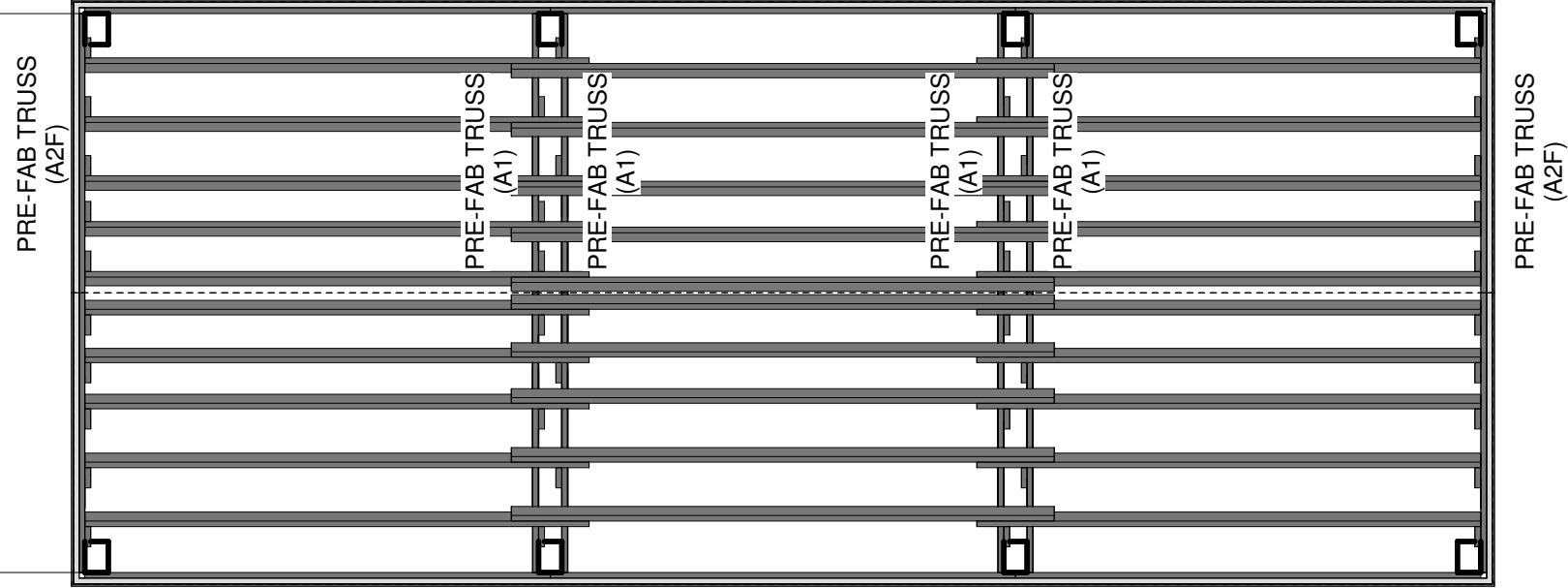
② WEST GIRT
3/16" = 1'-0"



④ EAST GIRT
3/16" = 1'-0"

NORTH

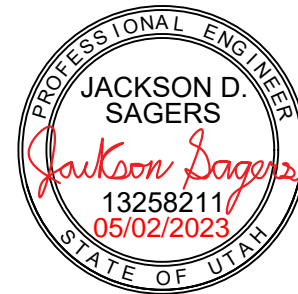
2x8 DF #2 AT 16" O.C. OVERLAPPED
10" MIN. STARTING 5" MAX. FROM RIDGE LINE.



EAST

WEST

SOUTH



ROOF PLAN
1/4" = 1'-0"

ROOF FRAMING NOTES:
4:12 ROOF PITCH

PURLINS: 2x8 DF #2 AT 16" O.C.
OVERLAPPED 10" MIN. STARTING
5" MAX. FROM RIDGE LINE.

AL MARTINELLI

41.363725-111.628441
Sourdough, UT

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Date: 5/2/2023

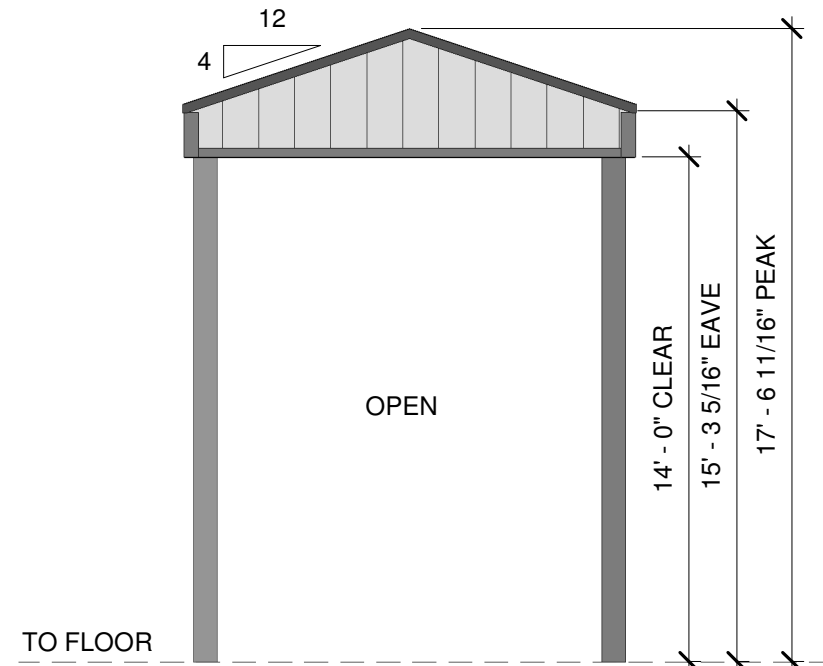
Scale: 1/4" = 1'-0"

Drawn by: CBC

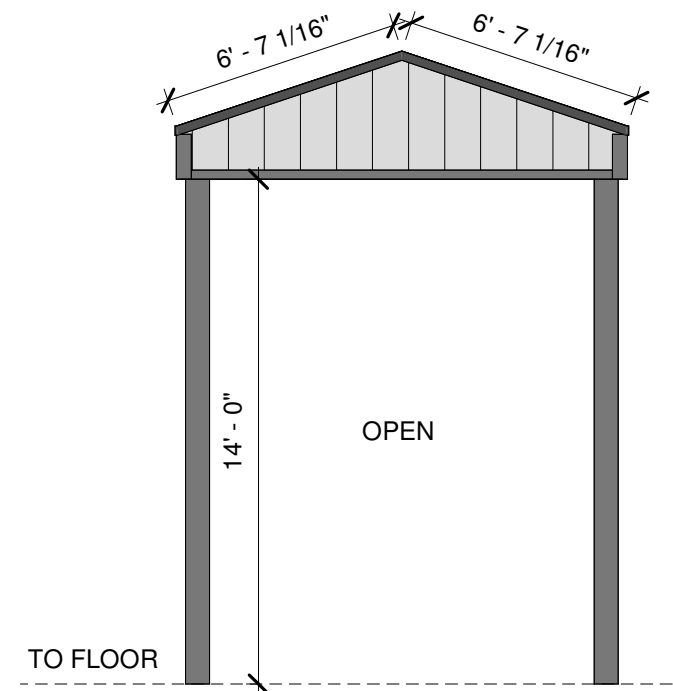
Job: MARTINELLI

Roof Plan

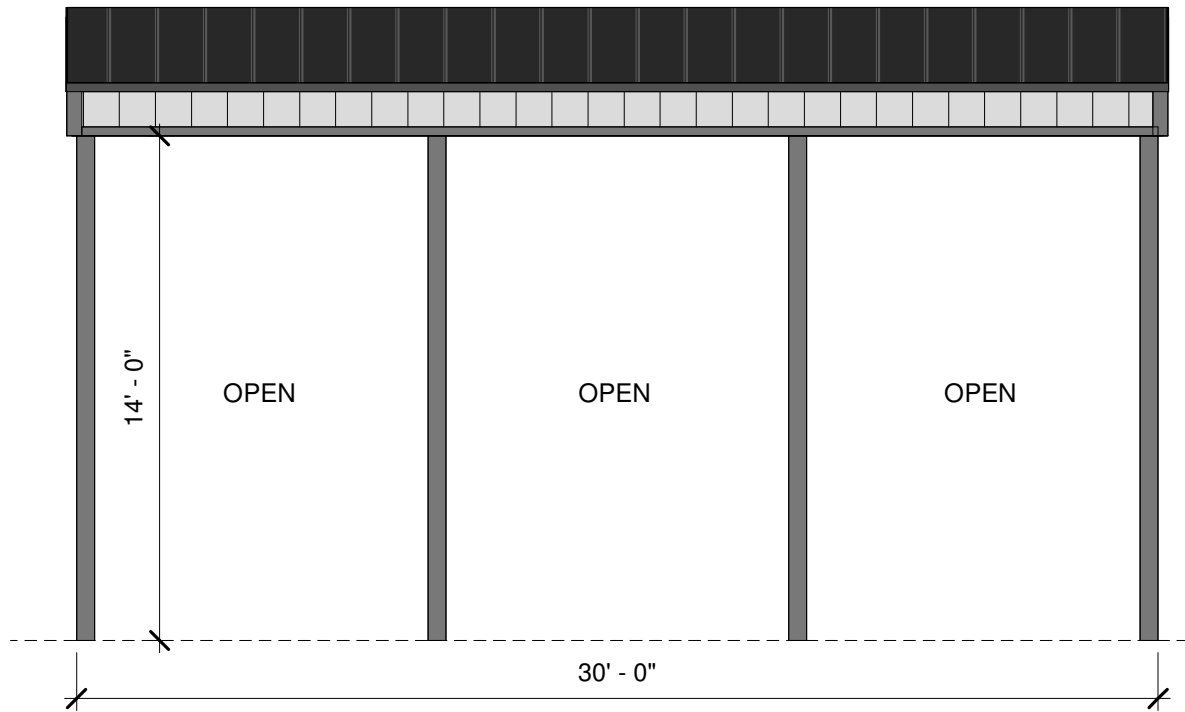
A4



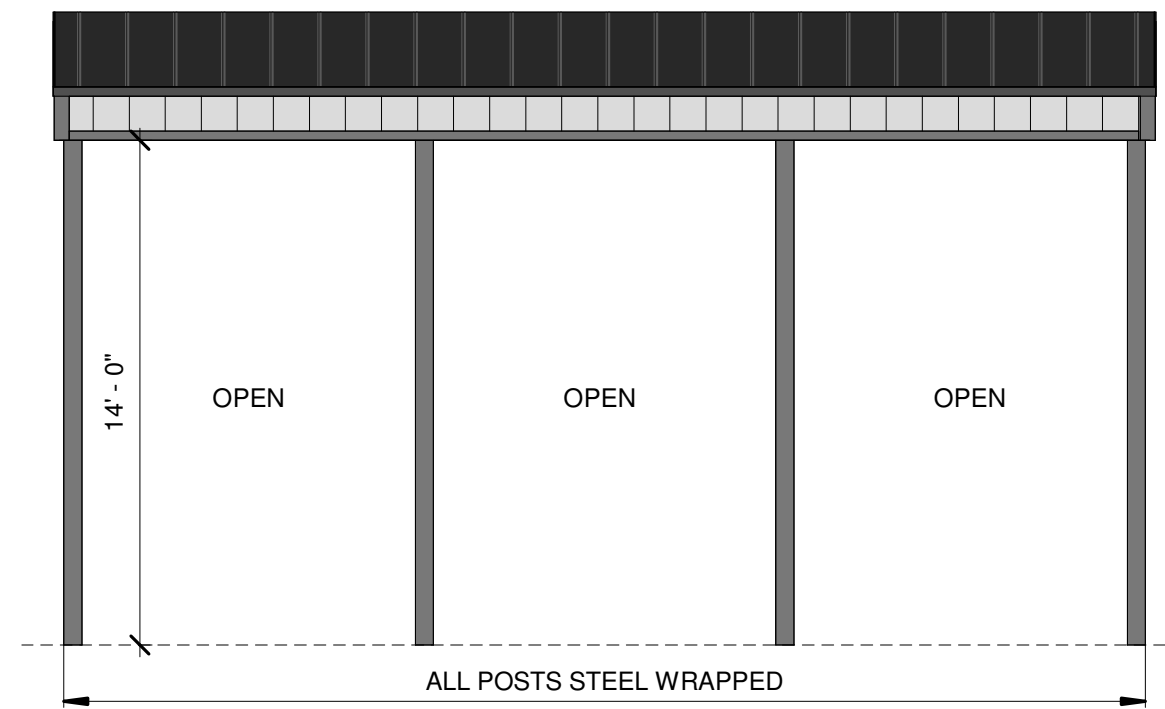
① SOUTH ELEVATION
3/16" = 1'-0"



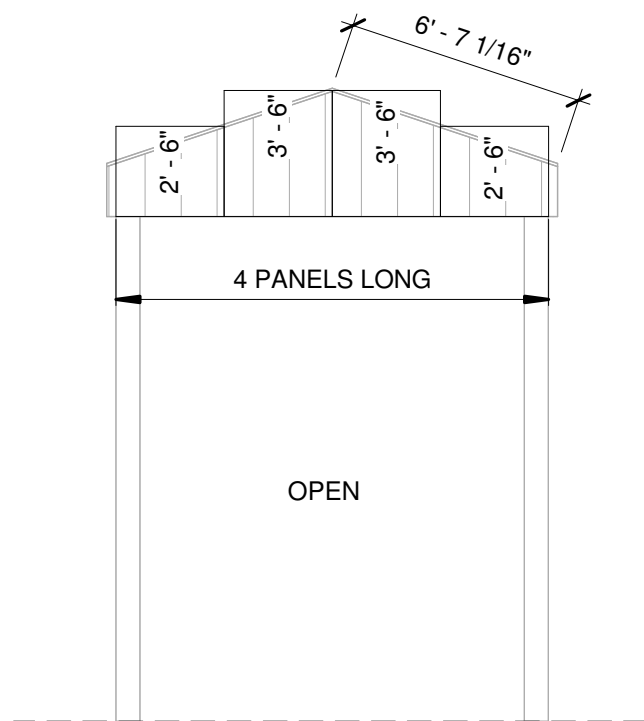
③ NORTH ELEVATION
3/16" = 1'-0"



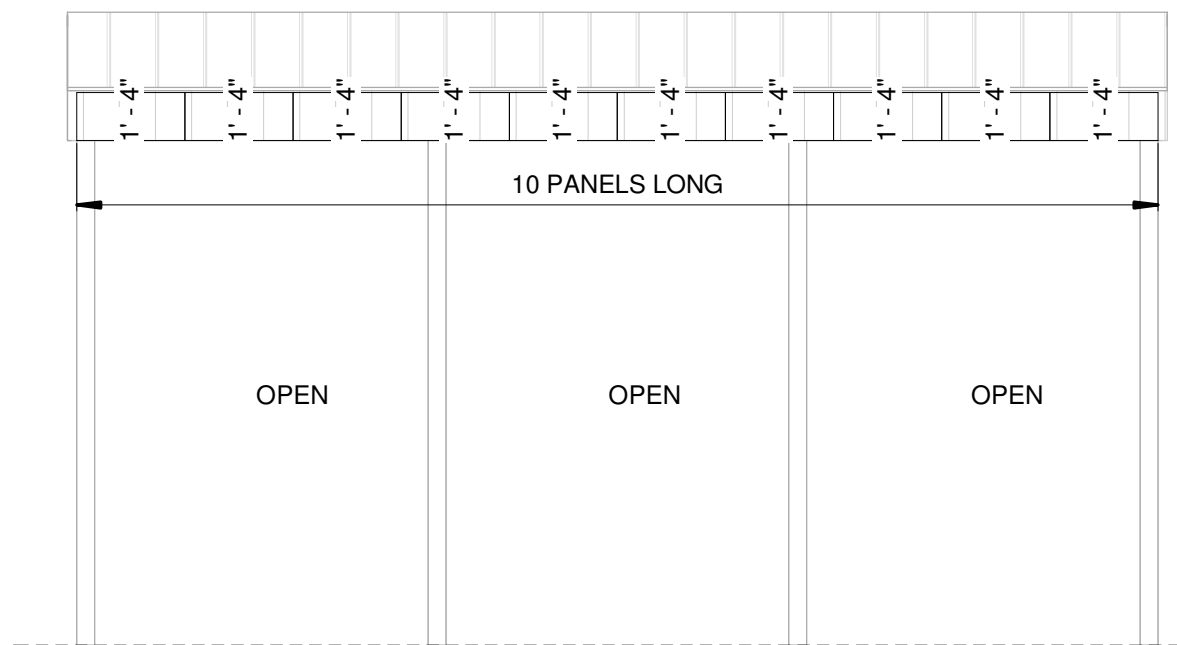
② WEST ELEVATION
3/16" = 1'-0"



④ EAST ELEVATION
3/16" = 1'-0"

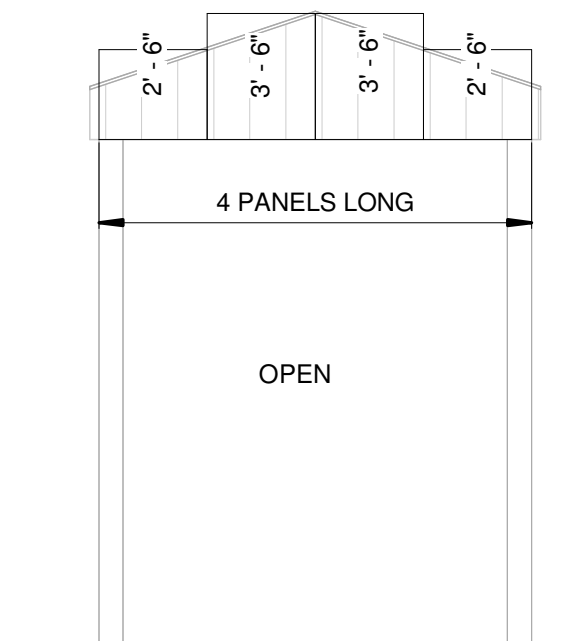


① SOUTH PANEL
3/16" = 1'-0"

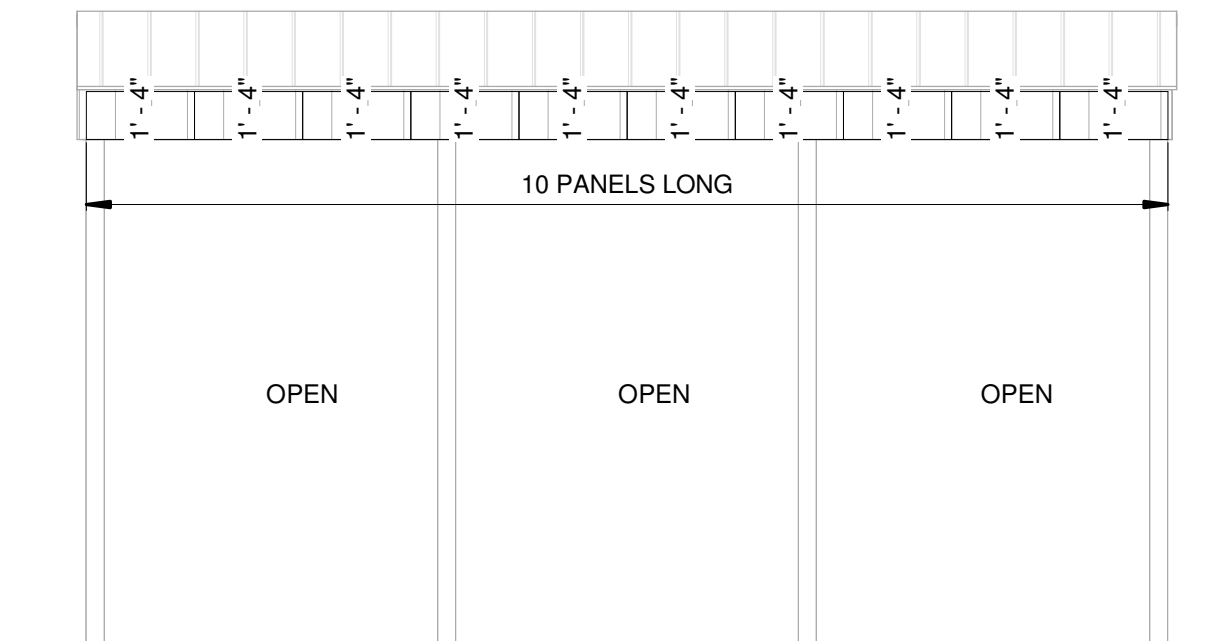


② WEST PANEL
3/16" = 1'-0"

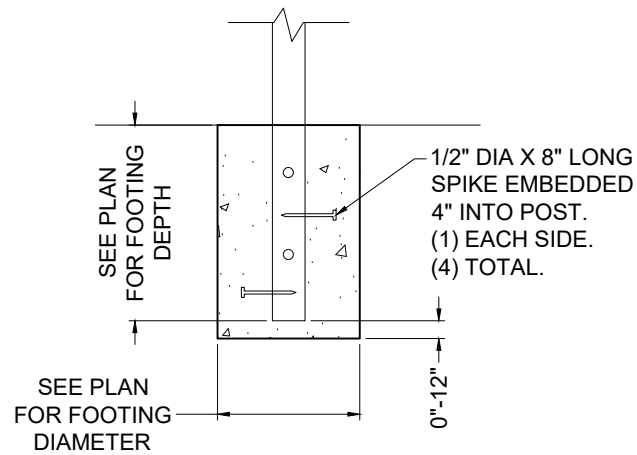
PANELS	
Quantity	Length
20	1' - 4"
4	2' - 6"
4	3' - 6"
Grand total: 28	



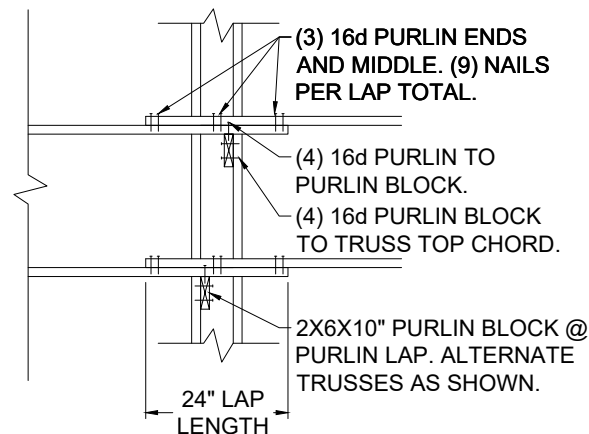
③ NORTH PANEL
3/16" = 1'-0"



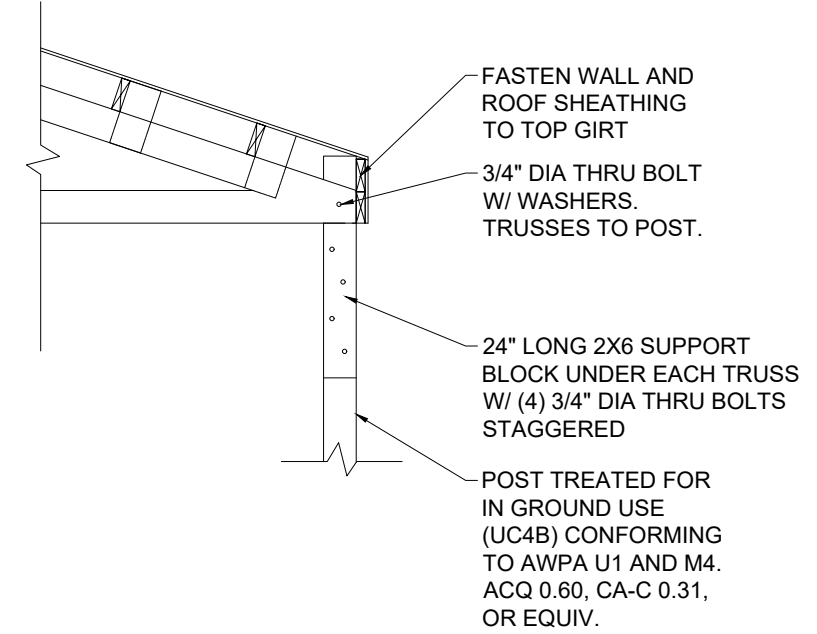
④ EAST PANEL
3/16" = 1'-0"



1
A7 NTS
24\"/>

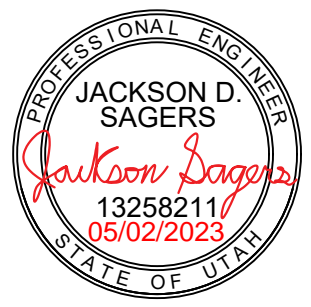
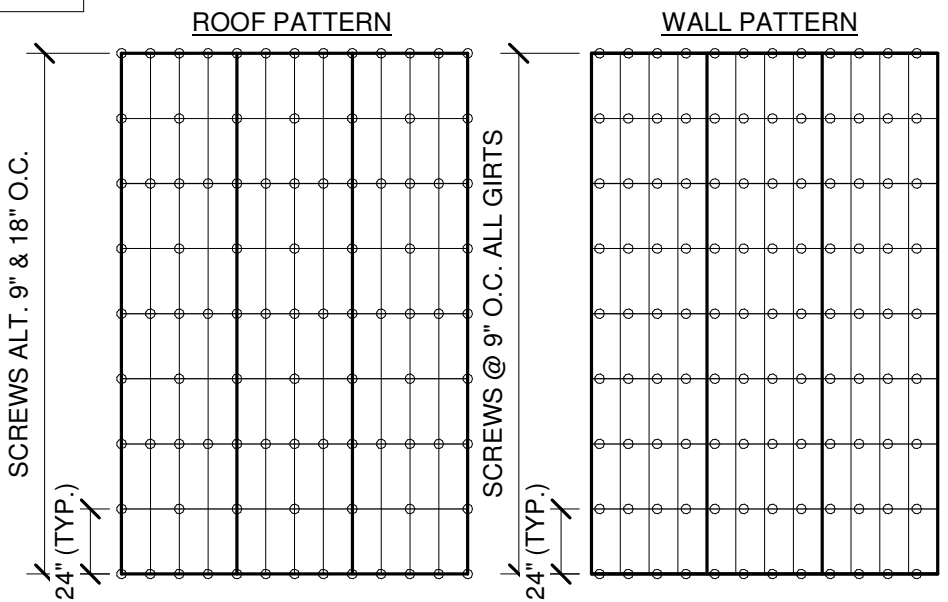
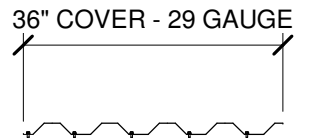
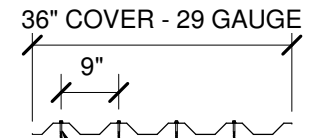


2
A7 NTS
PURLIN LAP



3
A7 NTS
TRUSS TO POST

ROOF & WALL PANELS: 29 GA. AG PANELS
 FABRAL NAME: GRAND RIB 3 - 3' COVER
 TRI-STATE NAME: TUFF RIB - 3' COVER



ROPER BUILDINGS
 SCREW PATTERNS
 1" = 10'-0"

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Date: 5/2/2023
 Scale: 1" = 10'-0"
 Drawn by: CBC
 Job: MARTINELLI
 Details

A7

DESIGN CRITERIA:
RISK CATEGORY
 DESIGN RISK CATEGORY: 1
 SNOW LOAD IMPORTANCE FACTOR (I_s): 0.8
 SEISMIC IMPORTANCE FACTOR (I_e): 1.0

SEISMIC LOADS
 S_v: 0.22
 S_{ms}: 0.57
 S_{ms}: 0.96
 T₁: 8
 R: 6.5 (SHEAR WALLS) OR 1.5 (CANTILEVER SYSTEM)
 SITE CLASS: D (ASSUMED)
 SDC: D

WIND LOADS
 V (3 SEC GUST): 105 MPH
 EXPOSURE CATEGORY: C
 ELEVATION: 7430 FT

SNOW LOADS
 P_s: 212 PSF
 W_s: 12 PSF
 C_e: 1.0
 C_t: 1.2
 C_s: 0.94
 P_f: 142 PSF
 P_s: 134 PSF

DEAD LOADS
 ROOF: 6 PSF (TRUSSES, PURLINS, METAL)
 FLOOR: 10 PSF (JOISTS, OSB)
 WALLS: 1 PSF (POSTS)
 DECKS: 10 PSF (JOISTS, DECKING)
 CONCRETE: 145 PSF

LIVE LOADS
 ROOF: 20 PSF
 FLOOR: 40 PSF
 DECK: 60 PSF

SOIL LOADS AND VALUES (ASSUMED):
 SOIL BEARING PRESSURE: 1500 PSF
 ACTIVE PRESSURE: 35 PCF
 PASSIVE PRESSURE: 250 PCF
 AT-REST PRESSURE: 60 PCF
 LATERAL BEARING PRESSURE: 400 PSF/FT
 (IBC 1806.1, 1806.2, & 1806.3.4)

*SEE NOTES FOR SOIL ASSUMPTIONS AS FOUND IN THE CONCRETE FOOTINGS & FOUNDATIONS SECTION, THIS PAGE
 **ENGINEER ASSUMES STABLE SOIL CONDITIONS. IF THERE ARE ANY GLOBAL STABILITY CONCERNS, A GEOTECHNICAL REPORT IS REQUIRED.

CONCRETE FOOTINGS, FOUNDATIONS, AND SLABS

NOTES:
 1. CONCRETE SHALL MEET REQUIREMENTS OUTLINED IN THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI318-19)
 2. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM ALL FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 IN WITHIN THE FIRST 10 FT DISTANCE FROM THE BUILDING.
 3. IMPERVIOUS SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING
 4. CONTRACTOR SHALL DAMP PROOF ALL CONCRETE WALLS THAT RETAIN EARTH OR HAVE ENCLOSED USABLE SPACES BY PLACING A BITUMINOUS COATING ON BELOW GRADE EXTERIOR SECTIONS OF FOUNDATION WALL OR WITH ANOTHER APPROVED DAMP PROOFING METHOD AS OUTLINED IN R406 OF THE IRC.
 5. FOUNDATION DRAINAGE SYSTEM IS NOT REQUIRED IF BACKFILLED WITH WELL-DRAINING BACKFILL OR SAND-GRAVEL MIXTURE SOILS OF GROUP 1 SOILS OF THE UNIFIED SOILS CLASSIFICATION SYSTEM AS SHOWN IN TABLE R405.1 OF THE IRC.
 6. ALL CONCRETE WALLS THAT RETAIN EARTH AND ANY FOUNDATION WALLS THAT ENCLOSE USABLE AREAS WITH GROUP II-GROUP IV SOILS OF THE UNIFIED SOILS CLASSIFICATIONS SYSTEM AS SHOWN IN TABLE R405.1 OF THE IRC SHALL HAVE A FOUNDATION DRAIN INSTALLED CONSISTING OF A PERFORATED DRAIN PIPE NOT LESS THAN 1" BEYOND THE OUTSIDE EDGE OF THE FOOTINGS AND 6" ABOVE THE TOP OF FOOTING WITH A GRAVEL DRAIN WRAPPED IN AN APPROVED FILTER FABRIC.
 7. ANY FOUNDATION WALLS THAT ENCLOSE USABLE SPACE WITH A HIGH WATER TABLE OR OTHER SEVERE GROUND WATER CONDITIONS SHALL BE WATERPROOFED AS REQUIRED IN SECTION R406.2 OF THE IRC.
 8. WPE ASSUMES STABLE SOIL CONDITIONS. CONTACT ENGINEER IF SOIL CONDITIONS DIFFER FROM THOSE ASSUMED. SEE DESIGN CRITERIA FOR ASSUMED VALUES. THESE VALUES SHALL BE REPLACED BY DATA INCLUDED IN A SITE SPECIFIC GEOTECHNICAL REPORT IF AVAILABLE.
 9. CRUSHED ROCK OR GRAVEL FILL WITH RELATIVELY LOW AMOUNTS OF FINES MAY BE USED TO BRING BOTTOM OF FOOTINGS OR SLABS UP TO GRADE WITH A MAXIMUM GRAVEL FILL DEPTH OF 2'. GRAVEL OR CRUSHED ROCK FILLS SHALL BE COMPACTED USING A VIBRATORY PLATE COMPACTOR.
 10. ANY FILL SOILS OR GRAVEL FILL DEEPER THAN 2' THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER. FILL SOILS SHALL BE INSTALLED, AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
 11. WHERE QUANTIFIABLE DATA OR OBSERVATIONS INDICATE EXPANSIVE, COMPRESSIBLE, SHIFTING, OR OTHER QUESTIONABLE SOIL CHARACTERISTICS OR GEOTECHNICAL HAZARDS ARE LIKELY TO BE PRESENT, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SITE SPECIFIC GEOTECHNICAL STUDY TO DETERMINE SOIL CHARACTERISTICS OF THE SITE.
 12. FROST DEPTH OF FOOTINGS AND MINIMUM FREEBOARD OF FOUNDATION WALLS SHALL BE MET AS SPECIFIED ON SHEET S1.0. NO FOOTINGS IN UNCONDITIONED SPACE SHALL BE CONSTRUCTED SHALLOWER THAN THE MINIMUM FROST DEPTH.
 13. CONCRETE SHALL BE MECHANICALLY VIBRATED WHEN PLACED TO AVOID HONEYCOMBING ALONG FORMS AND TO HELP CONCRETE FREELY FLOW AROUND REINFORCEMENT.
 14. CONCRETE SHALL NOT BE DROPPED MORE THAN 5' MAXIMUM DURING PLACEMENT.
 15. CONCRETE FOR FOUNDATION WALLS SHALL CURE A MINIMUM OF 7 DAYS AND HAVE INTERIOR SLAB INSTALLED PRIOR TO ANY BACKFILL. FOUNDATION WALLS 6' IN HEIGHT AND ABOVE DESIGNED FOR TOP SUPPORT. CONTRACTOR SHALL INSTALL FLOOR OR ROOF DIAPHRAGM PRIOR TO BACKFILL AND SHALL NOT COMPACT ANY BACKFILL PLACED AROUND THESE WALLS.
 16. ALL FOUNDATIONS SHALL HAVE 6" MIN. EXPOSED ABOVE GRADE.
 17. CONTRACTOR SHALL ROUGHEN COLD JOINT BETWEEN FOOTING AND WALL TO 1/4" AMPLITUDE.
 18. ALL SLABS ON GRADE SHALL HAVE CONTROL JOINTS IN SLAB AT 15' O.C. MAXIMUM SPACING.
 19. ALL CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK ON 4" PLATE COMPACTED GRAVEL OR OTHER APPROVED FREE DRAINING MATERIAL.
 20. REINFORCING STEEL IN CONCRETE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SECTION ENTITLED "REINFORCING STEEL".
 21. ALL REINFORCEMENT IN CONCRETE SHALL BE PROPERTY TIED AND SECURED PRIOR TO POURING CONCRETE IN SUCH A WAY THAT REINFORCEMENT REMAINS IN DESIGNED LOCATION. VERTICAL REINFORCING STEEL FOR MASONRY CONSTRUCTION MAY BE FLOATED INTO PLACE.
 22. ANY COMPONENTS THAT ARE CAST IN PLACE SHALL BE SECURELY PLACED IN THE FORMS (I.E. STRAPS, BOLTS, SLEEVES, ETC.)
 23. REINFORCEMENT IN FOUNDATION WALLS SHALL BE CENTERED IN WALL U.N.O. REINFORCEMENT FOR CONCRETE WALLS RETAINING EARTH SHALL BE PLACED WHERE DESIGNED ON PLANS.
 24. ENGINEER ASSUMES 2,500 PSI COMPRESSIVE STRENGTH IN STRUCTURAL CONCRETE, THEREFORE CONCRETE FOR FOOTINGS, FOUNDATION WALLS, AND SLABS ON GRADE CAN BE EXEMPT FROM SPECIAL INSPECTIONS ACCORDING TO EXEMPTIONS LISTED IN SECTION 1705.3 IN THE IBC UNLESS NOTED OTHERWISE.

CONCRETE SPECIFICATIONS			
STRUCTURAL ELEMENT	MIN. COMPRESSIVE STRENGTH (f _c)	AIR CONTENT	W/C RATIO
FOUNDATION WALLS AND FOOTINGS, NOT EXPOSED TO WEATHER	3000 PSI	5%-7% ⁽¹⁾	.55
SLABS (EXCLUDING GARAGE SLABS)	3000 PSI	5%-7% ⁽¹⁾	.55
WALLS, EXPOSED TO WEATHER	3000 PSI	5%-7%	.45
SLABS EXPOSED TO WEATHER (INCLUDING GARAGE AND SUSP SLABS)	3500 PSI	5%-7%	.45

NOTES TO TABLE ABOVE:
 1. AIR ENTRAINMENT ONLY REQUIRED IN CONCRETE NOT EXPOSED TO WEATHER IF EXPOSED TO FREEZE/THAW DURING CONSTRUCTION.
 2. f_c IS CONCRETE COMPRESSIVE STRENGTH AT 28-DAYS
 3. PORTLAND CEMENT TYPE III
 4. W/C RATIO BASED ON ALL CEMENTITIOUS AND SUPPLEMENTARY CEMENTITIOUS MATERIAL IN CONCRETE MIXTURE.
 5. CONCRETE SHALL NOT INCLUDE CALCIUM CHLORIDE ADMIXTURE
 6. NOMINAL MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL CONFORM TO ASTM C33
 7. CONCRETE MIXTURE MAY HAVE A MAXIMUM OF 25% BY MASS OF FLY ASH OR OTHER NATURAL POZZOLANS CONFORMING TO ASTM C618
 8. SEE SECTION R404.1.3.3.4 (IRC 2021) FOR SLUMP REQUIREMENTS. SLUMP OF CONCRETE SHALL BE ADEQUATE TO PROVIDE WORKABILITY AROUND REINFORCEMENT.

REINFORCING STEEL:

NOTES:
 1. PLACEMENT OF REINFORCING STEEL SHALL MEET REQUIREMENTS OF CHAPTER 25 OF ACI 318-19.
 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 (F_y = 60 KSI).
 3. REINFORCING STEEL SHALL NOT BE WELDED UNLESS SPECIFIED ON THE PLANS. REINFORCING STEEL THAT IS WELDED SHALL BE ASTM A806 GRADE 60.
 4. REINFORCING WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-185.
 5. ALL REINFORCING STEEL DIMENSIONS SHALL BE TO CENTER OF BAR UNLESS DIMENSION IS SPECIFIED AS "CLEAR" OR "CLR" IN WHICH CASE THE DIMENSION IS TO EDGE OF REBAR.
 6. EDGE DISTANCE, HOOK AND BEND RADII, AND REBAR LAP LENGTHS SHALL MEET THE FOLLOWING REQUIREMENTS ON THIS SHEET AND THE REQUIREMENTS IN THE ACI 318.
 7. REINFORCING IN FOUNDATION WALLS AND AROUND OPENINGS SHALL MEET REQUIREMENTS OF THE FOUNDATION SCHEDULE SHOWN ON S1.0 AND THE UTAH AMENDMENT TO THE CODE 15A-3-108.
 8. ON CENTER (O.C.) SPACING SHOWN ON PLANS SHALL BE MAXIMUM SPACING ALLOWABLE.
 9. BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (d_b) TO MEET DEVELOPMENT LENGTH. DEVELOPMENT LENGTH ASSUMES UNEPOXIED REBAR AND NORMAL WEIGHT CONCRETE. CONTACT ENGINEER FOR OTHER CONDITIONS IF NEEDED.

FRAMING

NOTES:
 1. ALL LUMBER SHALL MEET PLANS SPECIFICATIONS AND BE GRADED AND STAMPED BY AN APPROVED AGENCY (I.E. APA, WWPA, ETC.)
 2. BEAMS ON PLAN ARE SIZED AS A MINIMUM. LARGER SIZES AND HIGHER GRADES MAY REPLACE MEMBERS ON PLAN.
 3. BEAMS CONSISTING OF (4) OR MORE PLYS SHALL BE FASTENED W/ (2) ROWS OF 1/2" DIA THRU BOLTS @ 12" O.C. 2" FROM TOP AND 2" FROM BOTTOM OF BEAM.
 4. HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. A STANDARD CUT WASHER SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.
 5. LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS
 A) THE CLEARANCE HOLE FOR THE THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
 B) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40%-70% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS.
 9. POSTS AND WALLS SHALL BE CENTERED ON CONTINUOUS AND SPOT FOOTINGS U.N.O.
 10. ENGINEERED WOOD RIM BOARDS SHALL CONFORM TO ANSI/APA PRR 410 OR SHALL BE EVALUATED IN ACCORDANCE W/ ASTM D7672.
 11. WOOD CONSTRUCTION CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES:

- ALL CONSTRUCTION WORK SHALL FOLLOW THE STANDARDS FOUND IN THE INTERNATIONAL BUILDING CODE (IBC 2021) AND THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS 2018).
- THE ENGINEERED DRAWINGS PROVIDED HEREIN WERE COMPLETED USING THE PROFESSIONAL STANDARD OF CARE REQUIRED BY THE GOVERNING MUNICIPALITY AND/OR STATE. THESE DRAWINGS, HOWEVER, DO NOT AND CAN NOT PROVIDE EVERY EXPLICIT ELEMENT OR CONDITION OF THE STRUCTURE. AS SUCH, CONTRACTOR SHALL PROVIDE INDUSTRY STANDARD GOOD CARE AND PRACTICE FOR MISCELLANEOUS ELEMENTS NOT SHOWN ON PLANS AND SHALL CONTACT ENGINEER FOR FURTHER INFORMATION IF REQUIRED.
- STRUCTURAL ENGINEERING PROVIDED HEREIN ASSUMES FINAL CONSTRUCTED CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY OF UNFINISHED STRUCTURE DURING ALL STAGES OF CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS SHOWN IN DESIGN CRITERIA. CONTRACTOR SHALL PROVIDE BRACING OR SHORING AS NECESSARY TO SUPPORT UNFINISHED STRUCTURE.
- WHITE PINE ENGINEERING (WPE) ASSUMES NO LIABILITY FOR THE MEANS AND METHODS OF CONSTRUCTION PRACTICES. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS OF CONSTRUCTION AND FOR JOBSITE SAFETY PER OSHA REGULATIONS
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING APPROVAL AND ANY NECESSARY PERMITS FROM THE GOVERNING MUNICIPALITY PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY OBSERVATIONS PROVIDED BY WPE DURING CONSTRUCTION SHALL BE CONSIDERED OBSERVATIONS LIMITED TO THE SCOPE REQUESTED, AND NOT FULL INSPECTIONS OR APPROVAL. THE GOVERNING MUNICIPALITY SHALL BE SOLELY RESPONSIBLE FOR INSPECTIONS AND APPROVAL OF FINAL CONSTRUCTION.
- CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND CONDITIONS ASSUMED ON THESE PLANS (I.E. DIMENSIONS, MATERIALS, ASSUMED LOADS, ETC). SHOP DRAWINGS FOR ANY PRE-MANUFACTURED STRUCTURAL ELEMENTS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD TO REVIEW IF DIMENSIONS OR OTHER ASPECTS OF SHOP DRAWINGS DIFFER FROM THOSE ON THESE PLANS.

REBAR CONCRETE COVERAGE DISTANCES		
EXPOSURE CONDITION	BAR SIZE OR MEMBER	REBAR CLR DISTANCE (MIN.)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ANY	3"
EXPOSED TO WEATHER	#5 AND SMALLER	1-1/2"
	#6 AND LARGER	2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	#14 AND # 18; SLABS, JOISTS, AND WALLS	1-1/2"
	#11 AND SMALLER; SLABS, JOISTS, AND WALLS	3/4"
	ALL SIZE BARS; BEAMS, COLUMNS, AND TENSION TIES	1-1/2"

NOTES TO TABLE ABOVE:
 1. SEE TABLE 20.5.1.3.1 ACI 318-19
 2. ALL SLAB ON GRADE REINFORCEMENT SHALL BE CENTERED IN SLAB UNLESS NOTED OTHERWISE

TRUSSES

NOTES:
 1. PRE-MANUFACTURED TRUSSES SHALL FOLLOW LAYOUT SHOWN ON PLANS. ANY CHANGES IN TRUSS LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. CONTRACTOR AND MANUFACTURER SHALL VERIFY CEILING HEIGHTS, TRAYS, VAULTS, AND STEPS PRIOR TO CONSTRUCTION.
 3. MULTI PLY TRUSSES OR JOISTS SHALL BE FASTENED PER MANUFACTURER'S SPECIFICATIONS.
 4. TRUSSES AND JOISTS SHALL BE BRACED PER MANUFACTURER.
 5. NO ALTERATIONS OF TRUSSES OR JOISTS ARE ALLOWED WITHOUT APPROVAL FROM MANUFACTURER.

DIAPHRAGM/SHEATHING SCHEDULE

LOCATION	NOMINAL THICKNESS	SPAN RATING	EDGE NAILING	FIELD NAILING
ROOF W/ DESIGN SNOW LOAD UP TO 40 PSF	7/16"	24/16	8d @ 6" O.C.	8d @ 12" O.C.
ROOF W/ DESIGN SNOW LOAD UP TO 120 PSF	19/32"	40/20	8d @ 6" O.C.	8d @ 12" O.C.
FLOOR	3/4" TONGUE AND GROOVE	48/24	10d @ 6" O.C.	10d @ 12" O.C.

NOTES TO TABLE ABOVE:
 1. ROOF AND FLOOR FRAMING MEMBERS SHALL BE PLACED NO FURTHER THAN 24" O.C.
 2. NAILS SHALL BE CARBON STEEL SMOOTH SHANK COMMON OR GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
 3. NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL FLUSH WITH THE SURFACE OF THE SHEATHING.
 4. STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2
 5. FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS PRIOR TO NAILING W/ AN ADHESIVE CONFORMING TO APA SPECIFICATIONS.
 6. STRENGTH AXIS (LONG DIRECTION) OF PANELS SHALL BE ORIENTED PERPENDICULAR TO FRAMING MEMBERS AND PANEL END JOINTS SHALL BE STAGGERED.
 7. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANELS.
 8. 1-1/2" LONG 16 GAGE STAPLES W/ 7/16" CROWN MAY BE SUBSTITUTED FOR 8d NAILS AT HALF THE SPACING FOR 7/16" PANELS ONLY. CROWNS SHALL BE INSTALLED PARALLEL TO FRAMING MEMBERS.
 9. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.

SHEAR WALL SCHEDULE

MARK	SHEATHING	EDGE NAILING	EDGE STAPLING	EDGE MEMBER	FIELD NAILING	FIELD STAPLING	FIELD MEMBER	PLF
SW-6"	7/16" OSB, 1 SIDE	8d @ 6" O.C.	1-1/2" LONG 16 GAUGE @ 3" O.C.	(1) 2X	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	240
SW-4"	7/16" OSB, 1 SIDE	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	350
SW-3"	7/16" OSB, 1 SIDE	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	450
SW-2"	7/16" OSB, 1 SIDE	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	585
(2)SW-4"	7/16" OSB, BOTH SIDES	8d @ 4" O.C.	1-1/2" LONG 16 GAUGE @ 2" O.C.	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	1-1/2" LONG 16 GAUGE @ 6" O.C.	(1) 2X	700
(2)SW-3"	7/16" OSB, BOTH SIDES	8d @ 3" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 4" O.C.	8d @ 12" O.C.	N/A	(1) 2X	900
(2)SW-2"	7/16" OSB, BOTH SIDES	8d @ 2" O.C.	N/A	(1) 3X OR (2) 2X W/ 16d @ 3" O.C.	8d @ 12" O.C.	N/A	(1) 2X	1170

NOTES TO TABLE ABOVE:
 1. GIRTS SHALL BE DF-L @ 24" O.C.
 2. NAILS SHALL BE CARBON STEEL SMOOTH SHANK 8d COMMON OR 8d GALVANIZED BOX. GALVANIZED NAILS SHALL BE HOT-DIPPED OR MECHANICALLY DEPOSITED.
 3. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16" AND SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS.
 4. NAILS/STAPLES SHALL BE DRIVEN WITH THE HEAD/CROWN OF THE NAIL/STAPLE FLUSH WITH THE SURFACE OF THE SHEATHING.
 5. DOUBLE SIDED SHEAR WALLS SHALL HAVE PANEL JOINTS OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. NAILS AT PANEL EDGES SHALL BE STAGGERED.
 6. BLOCK ALL PANEL EDGES. FLAT BLOCKING/GIRTS IS ACCEPTABLE ON SINGLE SIDED SHEAR WALLS.
 7. ALL WALLS SHALL FOLLOW SW-6" U.N.O.
 8. STRUCTURAL PANELS SHALL BE APA APPROVED, EXPOSURE 1, AND MEET THE REQUIREMENTS OF USDOC PS 2.
 9. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES.
 10. PANELS SHALL NOT BE LESS THAN 4'X8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. ALL EDGES OF ALL PANELS SHALL BE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.

**DMLP RESOURCES/
 ROPER BUILDINGS**

(801) 689-3630

AL MARTINELLI

41.363725-111.628441
 Sourdough, UT

Date: 5/2/2023

Scale:

Drawn by: CBC

Job: MARTINELLI

Engineering Notes

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