

# POLE BUILDING PLANS

BUILDING OWNER: SHAUN NELMS  
 BUILDING LOCATION: 4371 PRAIRIE RANCH VIEW  
 PEYTON, CO. 80831  
 COUNTY: EL PASO  
 BUILDING DIMENSIONS: 40' X 40' X 14' + 40' X 50' X 10' + 6' X 30' X 10' SHED  
 ROOF PITCH: VARIES  
 BUILDING AREA/CONST. TYPE: 3,792 SF / TYPE V-B  
 ROOF FRAMING SYSTEM: PRE-ENGINEERED TRUSSES BY OTHERS  
 ROOF ASSEMBLY: METAL  
 WALL ASSEMBLY: METAL  
 BUILDING USE: RESIDENCE / SHOP

CONTRACTOR/BUILDER: POLE BARNS LLC  
 ADDRESS: 458 COLORADO AVE.  
 CALHAN, CO. 80808

## BUILDING DESIGN CRITERIA

GROUND SNOW LOAD = 30 PSF  
 ROOF DEAD LOAD = 3 PSF  
 WIND SPEED = 130 MPH (3 SEC. GUST)  
 WIND EXPOSURE = C  
 SEISMIC DESIGN PARAMETERS:  
 $S_s = 0.15$ ;  $S_1 = 0.05$   
 SEISMIC DESIGN CATEGORY = ~~A~~ B  
 RISK CATEGORY = II  
 SOIL BEARING CAPACITY = 1,500 PSF

## BUILDING CODES & REFERENCES

-2018 IBC  
 -ASCE 7-16  
 -NDS 2012

## SHT DRAWING LIST

1	C1.0 COVER SHEET
2	P1.0 PLAN VIEW
3	E1.0 ELEVATION VIEWS
4	S1.0 SECTIONS & DETAILS
5	S2.0 SECTIONS & DETAILS
6	D1.0 POSTHOLE, PURLIN, & GIRT DETAILS
7	D2.0 SHEATHING DETAILS

Revise to currently adopted codes. List is available at <https://www.pprbd.org>

## CONSTRUCTION NOTES

- ALL DRAWINGS SHALL BE REVIEWED AND APPROVED BY OWNER AND/OR CONTRACTOR PRIOR TO BEGINNING OF SITE WORK OR BUILDING CONSTRUCTION. ALL DIMENSIONS AND SPECIFICATIONS SHALL BE VERIFIED AND ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS SHALL BE REPORTED TO SOUTH VALLEY ENGINEERING PRIOR TO MATERIAL PURCHASE AND BEGINNING OF CONSTRUCTION. SOUTH VALLEY ENGINEERING SHALL NOT BE HELD LIABLE FOR ANY COSTS OR DAMAGES INCURRED DUE TO DISCREPANCIES, ERRORS AND/OR OMISSIONS DISCOVERED AFTER CONSTRUCTION HAS BEGUN.
- THE BUILDING OWNER AND OR CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY WORK DONE THAT IS NOT SHOWN ON OR DOES NOT COMPLY WITH THESE PLANS. REQUESTS FOR ANY CHANGES SHALL BE MADE TO THE ENGINEER IN WRITING, AND SHALL BE RECEIVED FROM THE ENGINEER IN WRITING PRIOR TO IMPLEMENTATION.
- STRUCTURAL CONCRETE FOR SLABS AND FOUNDATIONS SHALL BE A MINIMUM OF 2,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH NO SPECIAL INSPECTION REQUIRED. FOOTINGS AND FOUNDATIONS SHALL BE CAST AGAINST UNDISTURBED NATIVE SOIL UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL DIMENSIONAL LUMBER SHALL BE #2 DF OR BETTER UNLESS OTHERWISE NOTED ON THE PLANS. HIGHER GRADE LUMBER OF SAME SPECIES MAY BE SUBSTITUTED FOR SPECIFIED GRADE.
- ALL WOOD IN CONTACT WITH CONCRETE ABOVE GROUND SHALL BE PRESSURE TREATED FOR ABOVE GROUND CONTACT. ALL WOOD EMBEDDED IN GROUND SHALL BE PRESSURE TREATED FOR BURIAL.
- ROOF & WALL WOOD SHEATHING (IF USED)-UNLESS OTHERWISE NOTED ON THE PLANS:  
 ALL ROOF AND WALL WOOD SHEATHING SHALL BE AN APPROVED APA RATED SHEATHING, EXPOSURE I, GRADE C-D, EXTERIOR GLUE, 7/16" THICK (MINIMUM). EXTERIOR GRADE SHEATHING SHALL BE RATED FOR EXTERIOR USE. WOOD ROOF SHEATHING SHALL BE NAILED WITH 8d NAILS AT 6" O.C. EDGES AND 12" O.C. FIELD. 2X BLOCKING IS NOT REQUIRED FOR ROOF SHEATHING. WALL SHEATHING SHALL BE NAILED WITH 8d NAILS AT 6" O.C. EDGES AND 12" O.C. FIELD OR AS SPECIFIED ON THE PLANS. 2X BLOCKING SHALL BE INSTALLED AT ALL PANEL EDGES ON ALL WALLS.
- ALL FASTENERS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED OR CORROSION RESISTANT. ALL FASTENERS IN PRESSURE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- IF PLANS SPECIFY GRANULAR BACKFILL IN POSTHOLE, BACKFILL WITH 3/4" MINUS CLEAN CRUSHED GRAVEL TO SPECIFIED EMBEDMENT DEPTH. BACKFILL IN 6" LIFTS AND SATURATE AND COMPACT EACH LIFT.
- UNLESS OTHERWISE NOTED, THE 6" THICK PAD AT THE BOTTOM OF THE POST HOLES IS NOT REQUIRED FOR DOOR POSTS NOT SUPPORTING VERTICAL LOADS, AND MAY BE OMITTED FOR STRUCTURAL POSTS BEARING ON SOLID ROCK.
- INSTALL ALL TRUSS BRACING PER TRUSS ENGINEERING. INSTALL TEMPORARY TRUSS BRACING DURING CONSTRUCTION PER BCSI-B10 GUIDELINES FOR POST FRAME TRUSS INSTALLATION, RESTRAINT & BRACING DURING CONSTRUCTION.

**DISAPPROVED**

**03/18/2021 9:43:49 AM**

**michaela**

**CONSTRUCTION**



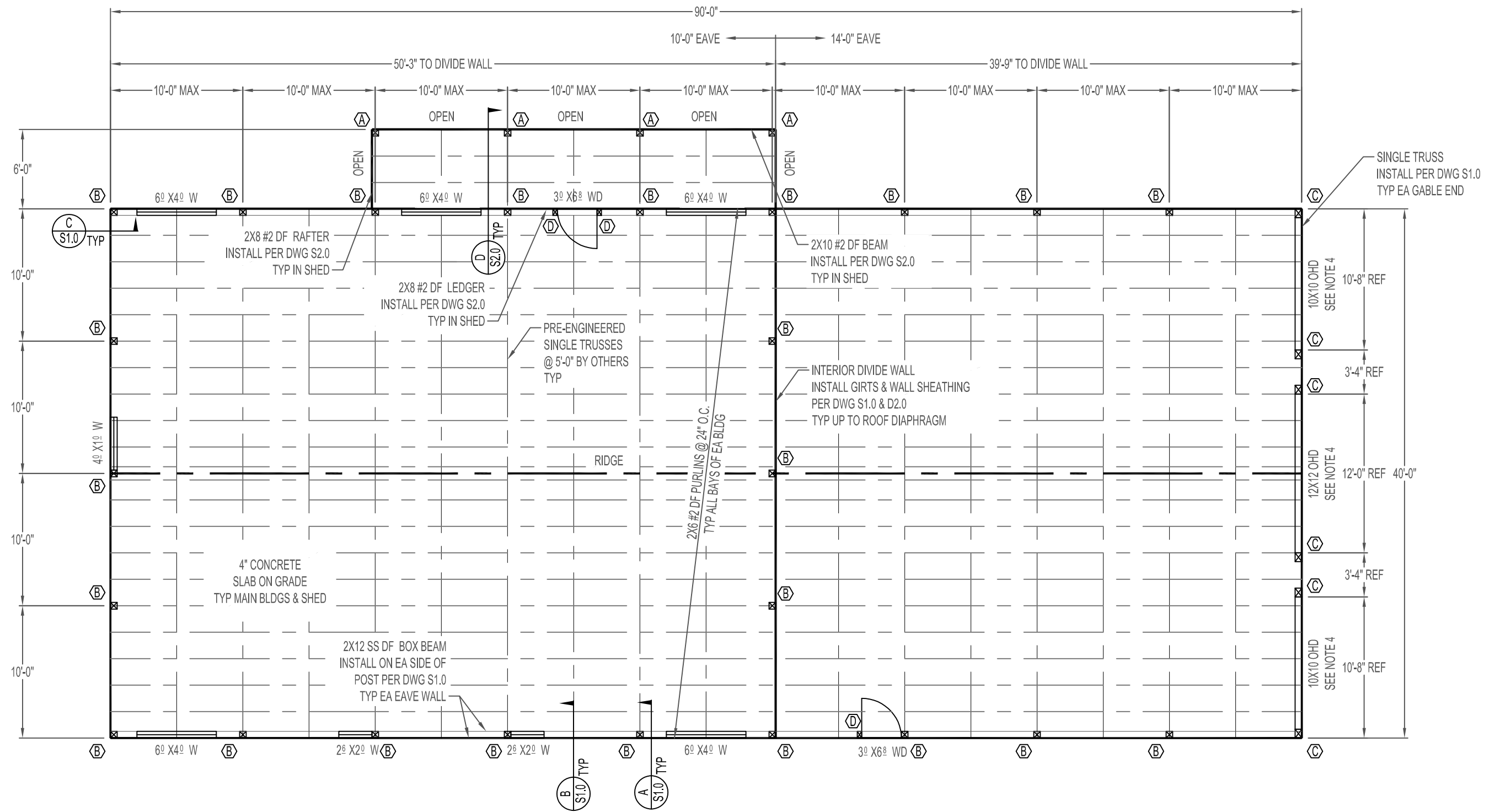
## COVER SHEET

DRAWING NO.: C1.0	OWNER: SHAUN NELMS
REV.: 0	SHEET: 1
PROJECT NO.: 12006069	LOCATION: 4371 PRAIRIE RANCH VIEW PEYTON, CO. 80831
DATE: 13 OCT 2020	SCALE: N/A
	DRAWN BY: LD



**South Valley Engineering**  
 4742 Liberty Rd. S #151 • Salem, OR. 97302  
 Ph. (503) 302-7020 • Fax (888) 535-6341  
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THE PLANS FOR THIS BUILDING ARE THE PROPERTY OF SOUTH VALLEY ENGINEERING, LLC AND SHALL BE SURRENDERED UPON REQUEST. THIS BUILDING HAS BEEN ENGINEERED TO CONFORM TO THE DIMENSIONS AND BUILDING DESIGN CRITERIA SPECIFIED, AND SHALL BE BUILT ONLY AT THE LOCATION DESIGNATED ON THESE PLANS. ANY CHANGES OR MODIFICATIONS TO THESE PLANS, INCLUDING BUT NOT LIMITED TO BUILDING DIMENSIONS, DESIGN CRITERIA, OR BUILDING LOCATION WITHOUT EXPRESS WRITTEN PERMISSION OR DOCUMENTATION BY THE ENGINEER WHOSE SEAL IS AFFIXED TO THESE PLANS SHALL RENDER THESE PLANS NULL AND VOID, AND THE ENGINEER WHOSE SEAL IS AFFIXED TO THESE PLANS SHALL NOT BE HELD LIABLE FOR THE STRUCTURAL INTEGRITY OR CODE COMPLIANCE OF ANY BUILDING CONSTRUCTED REFERENCING THESE PLANS UNDER THESE CONDITIONS.




**GENERAL NOTES**

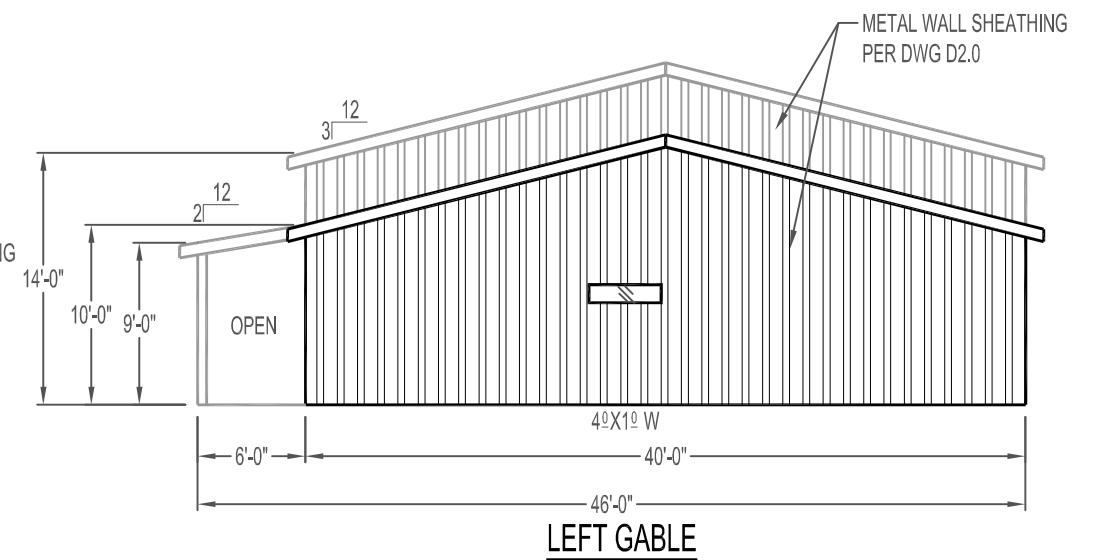
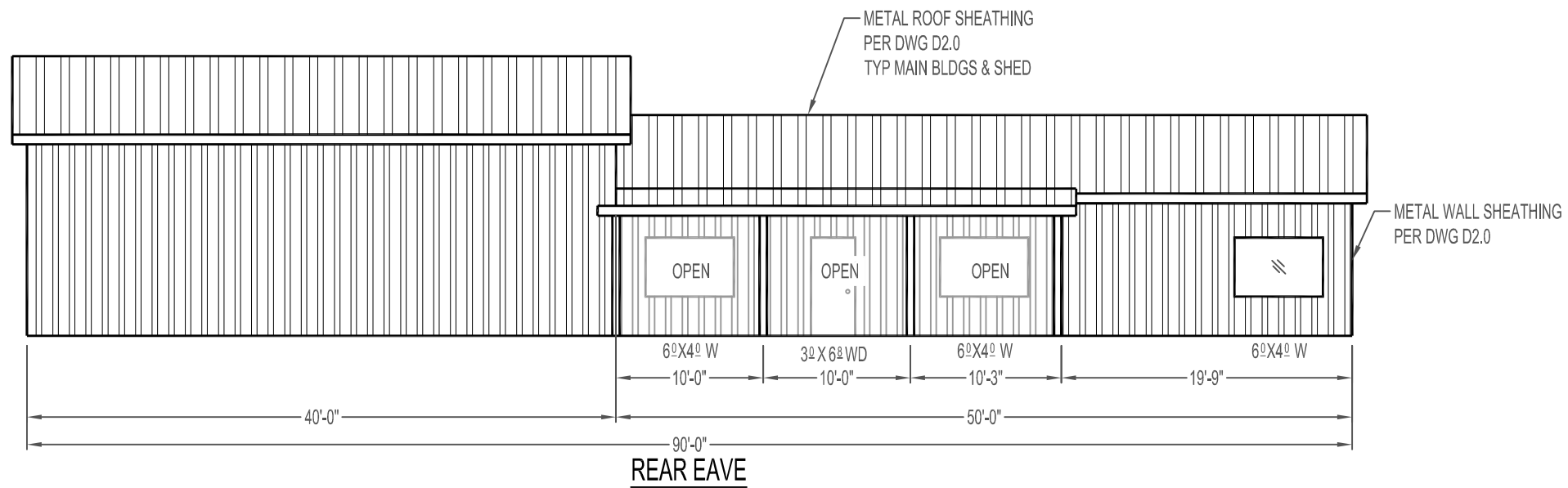
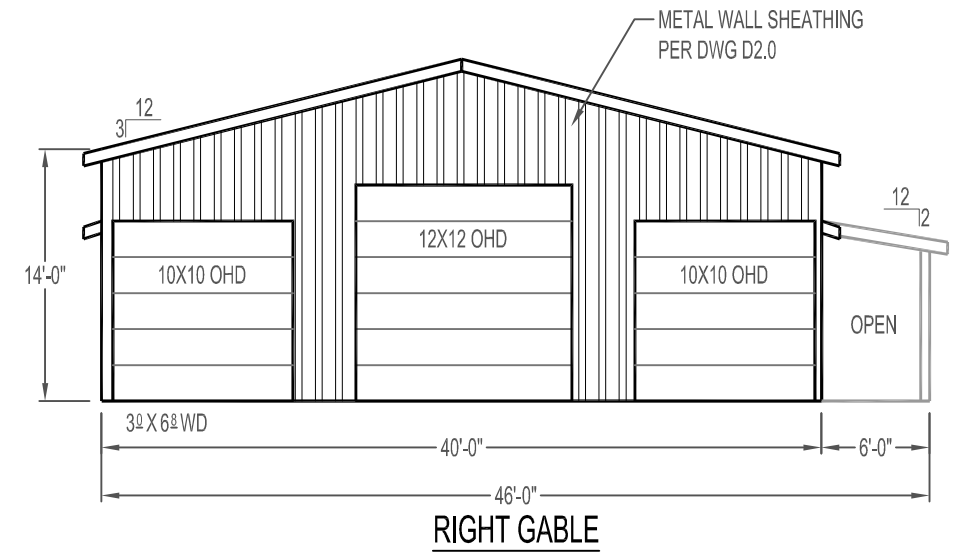
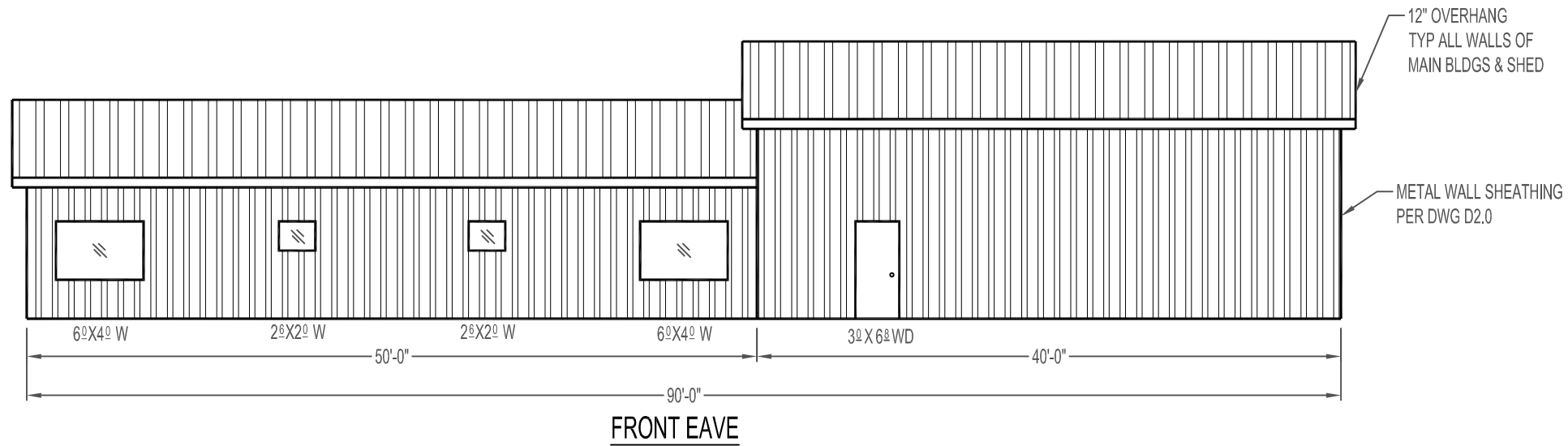
1. ALL POSTS TO BE #2 HF PRESSURE TREATED FOR BURIAL AND ORIENTED AS SHOWN UNLESS OTHERWISE NOTED
2. UNLESS OTHERWISE DIMENSIONED, ALL WINDOWS AND WALK DOORS MAY BE LOCATED BY THE OWNER/CONTRACTOR IN THE WALLS SHOWN
3. EMBED POSTS AND BACKFILL PER DWG D1.0. CONCRETE BACKFILL MAY BE SUBSTITUTED FOR GRANULAR BACKFILL.
4. CONTRACTOR TO VERIFY OVERHEAD DOOR DIMENSIONS AND CLEARANCES PRIOR TO BUILDING CONSTRUCTION AND OVERHEAD DOOR INSTALLATION


**TABLE 1**

POST	SIZE	HOLE DIMENSIONS		BACKFILL	NOTES
		DIAMETER	DEPTH		
(A)	6X6	18"Ø	4'-0"	CONCRETE	-
(B)	6X6	24"Ø	4'-6"	GRANULAR	-
(C)	6X8	24"Ø	4'-6"	CONCRETE	ORIENT PARALLEL WITH GABLE WALL
(D)	4X6	18"Ø	2'-6"	GRANULAR	INSTALL PER CONSTRUCTION NOTES

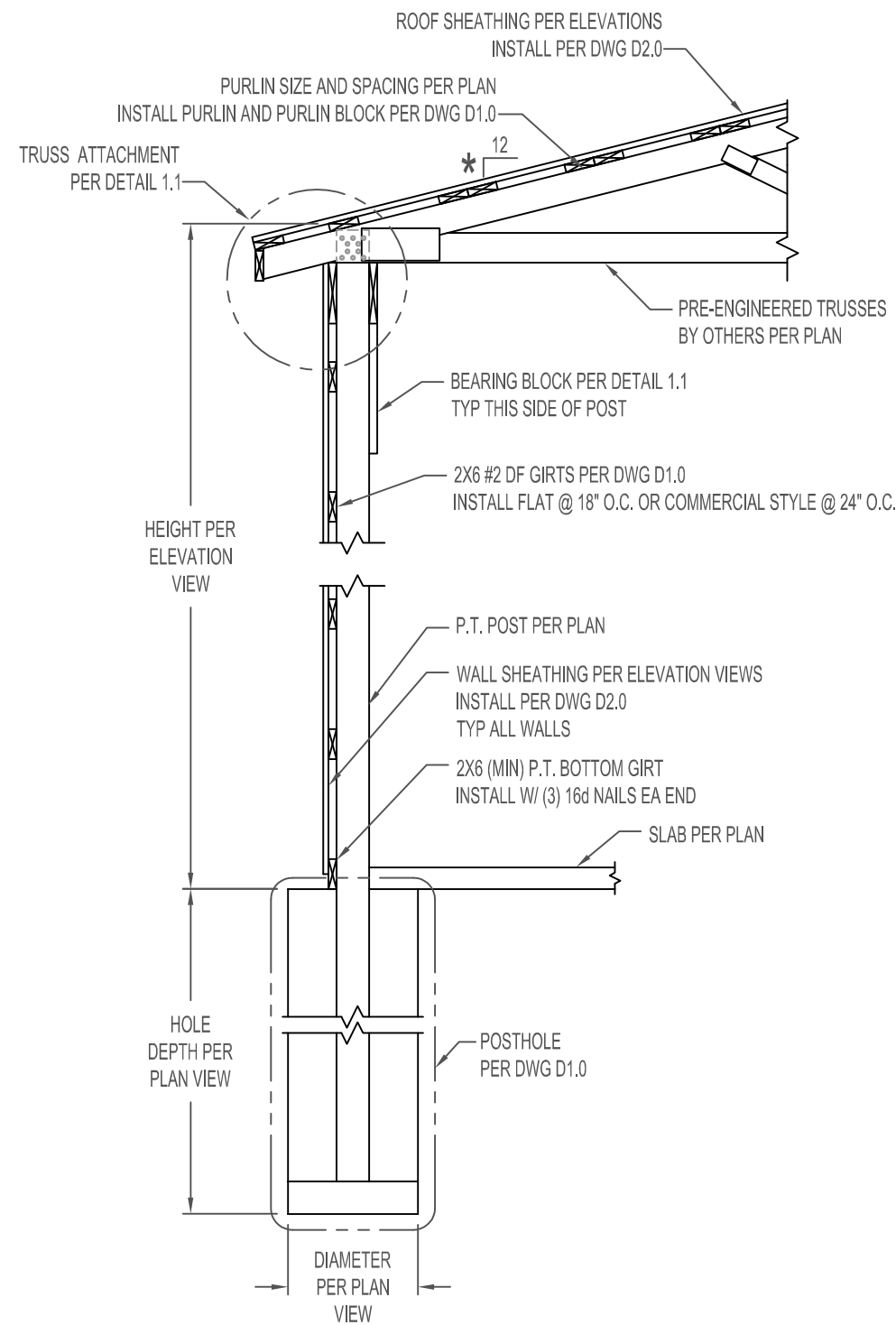


PLAN VIEW			
DRAWING NO.: P1.0	OWNER: SHAUN NELMS		
REV.: 0	SHEET: 2	LOCATION: 4371 PRAIRIE RANCH VIEW	
PROJECT NO.: 12006069		PEYTON, CO. 80831	
DATE: 13 OCT 2020	SCALE: 1/8" = 1'-0"	DRAWN BY: LD	
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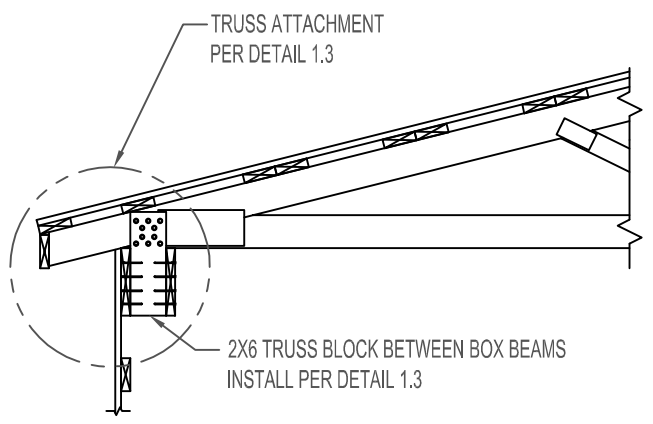


ELEVATION VIEWS			
DRAWING NO.: E1.0	OWNER: SHAUN NELMS		
REV.: 0	SHEET: 3	LOCATION: 4371 PRAIRIE RANCH VIEW	
PROJECT NO.: 12006069		PEYTON, CO. 80831	
DATE: 13 OCT 2020	SCALE: 3/32"= 1'-0"	DRAWN BY: LD	
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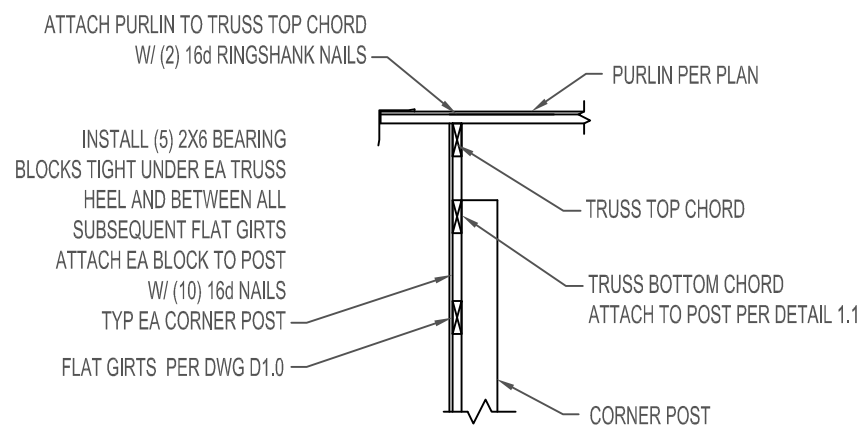
\* ROOF PITCH PER ELEVATIONS



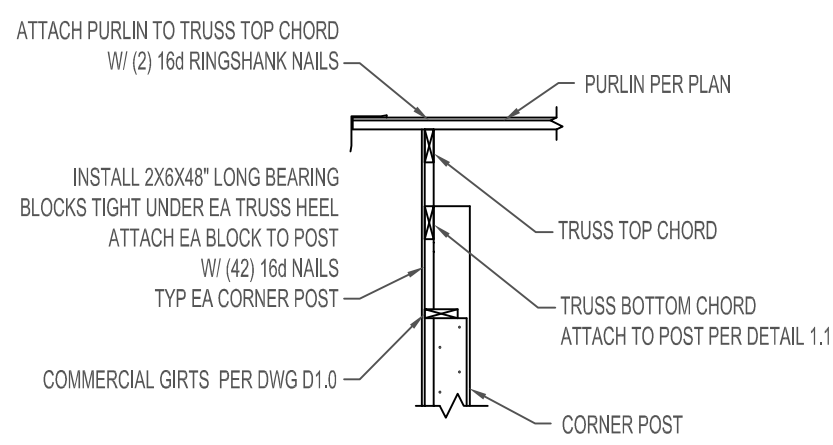
**SECTION A**



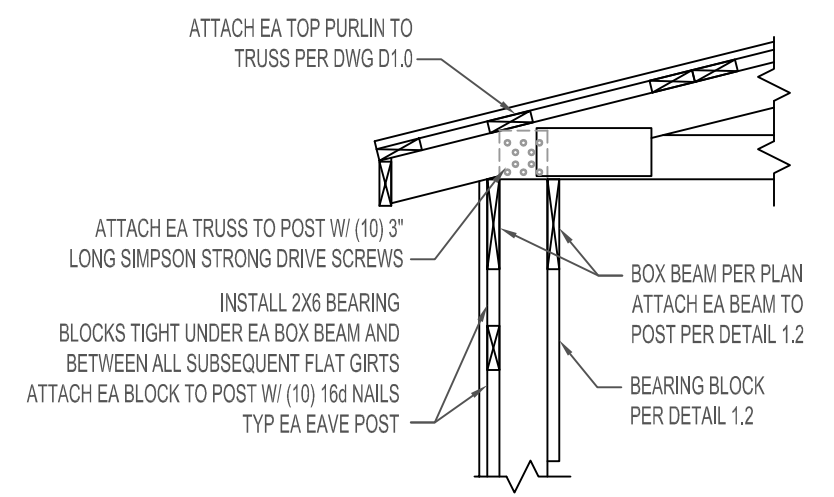
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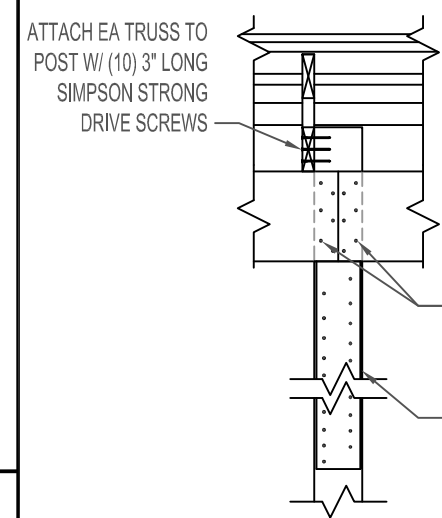
**SECTION C**  
GABLE TRUSS CONNECTION W/ FLAT GIRTS



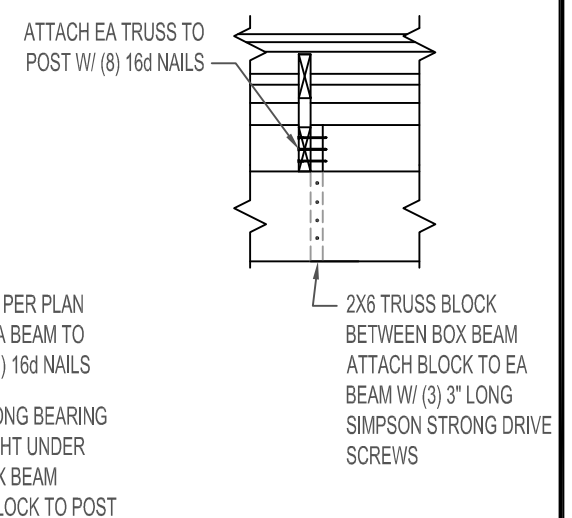
**SECTION C**  
GABLE TRUSS CONNECTION W/ COMMERCIAL GIRTS



**DETAIL 1.1**  
TRUSS ATTACHMENT AT POST




**DETAIL 1.2**  
TRUSS ATTACHMENT AT POSTS



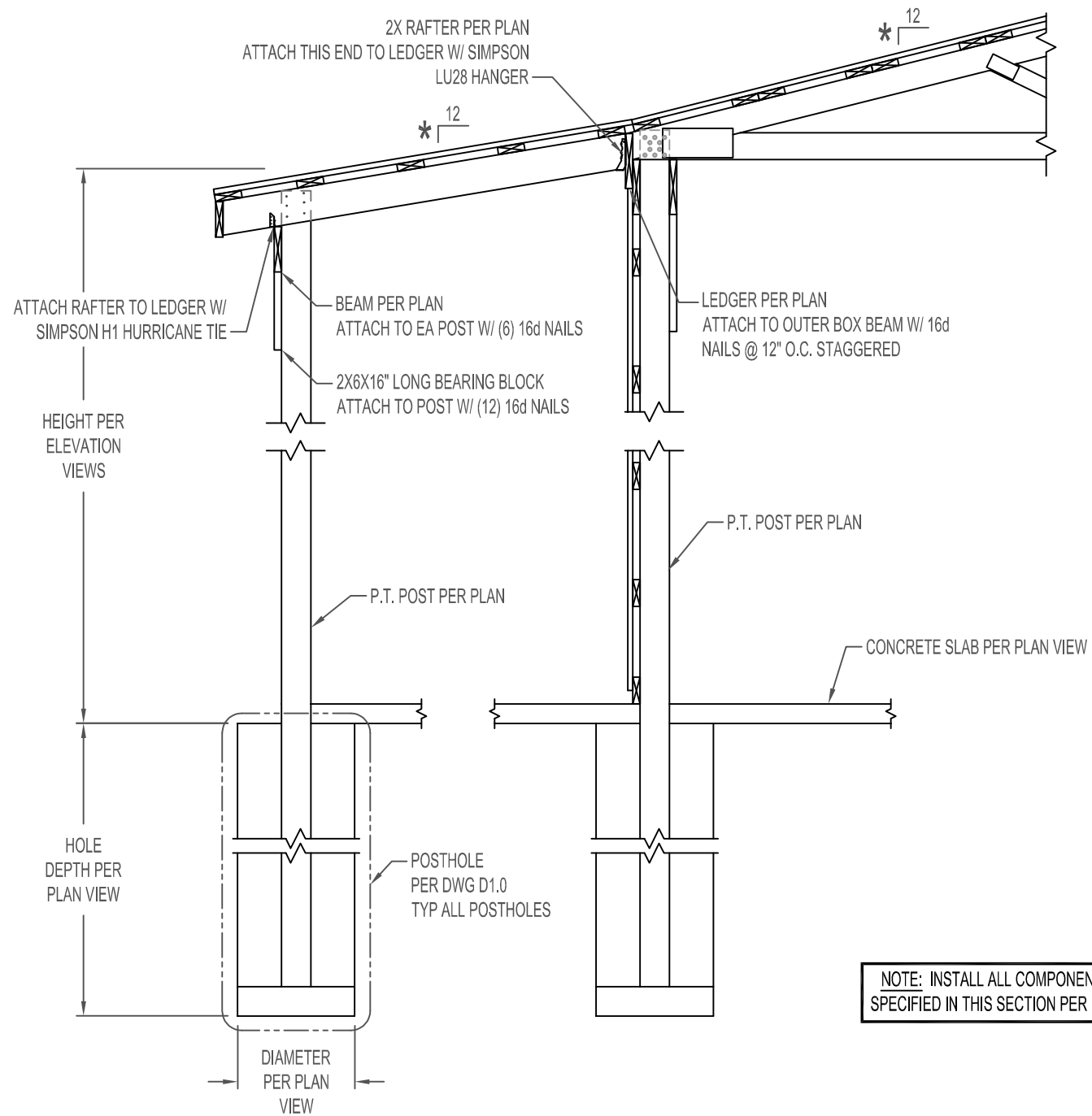
**DETAIL 1.3**  
TRUSS ATTACHMENT AT BEAM MID-SPAN (NO POST)

NOTE: IF COMMERCIAL GIRTS USED, INSTALL BLOCK ON BOTH SIDES OF POST AS SHOWN



SECTIONS & DETAILS			
DRAWING NO.: S1.0	OWNER: SHAUN NELMS		
REV.: 0	SHEET: 4	LOCATION: 4371 PRAIRIE RANCH VIEW	
PROJECT NO.: 12006069		PEYTON, CO. 80831	
DATE: 13 OCT 2020	SCALE: 3/8"= 1'-0"	DRAWN BY: LD	
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\* ROOF PITCH PER ELEVATIONS



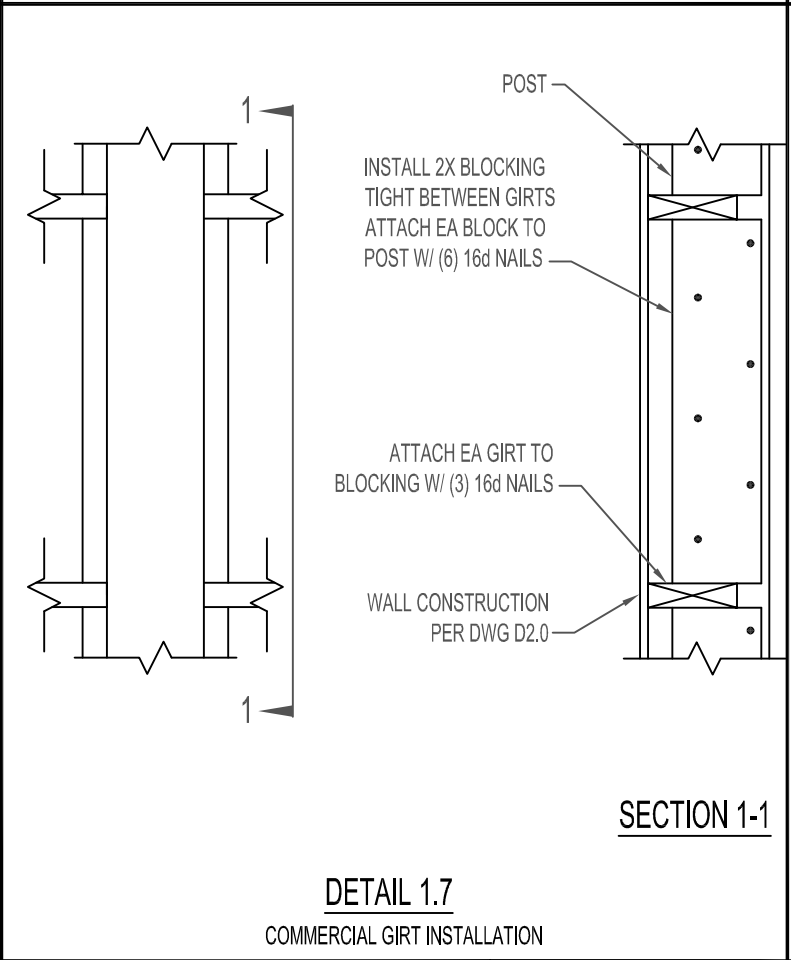
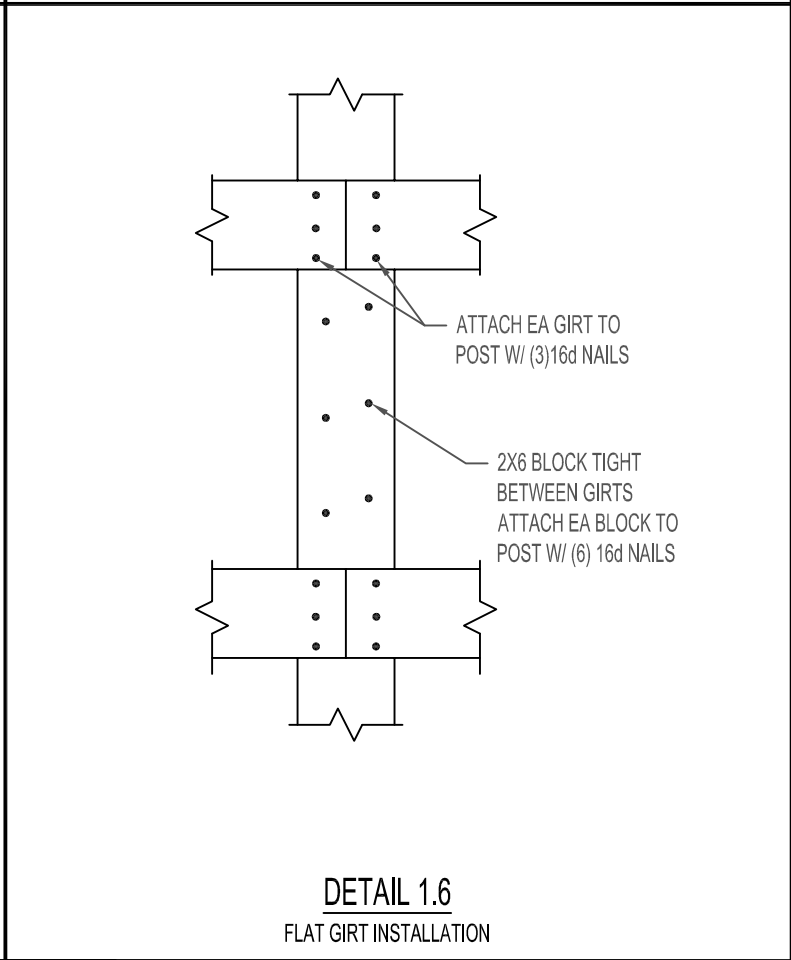
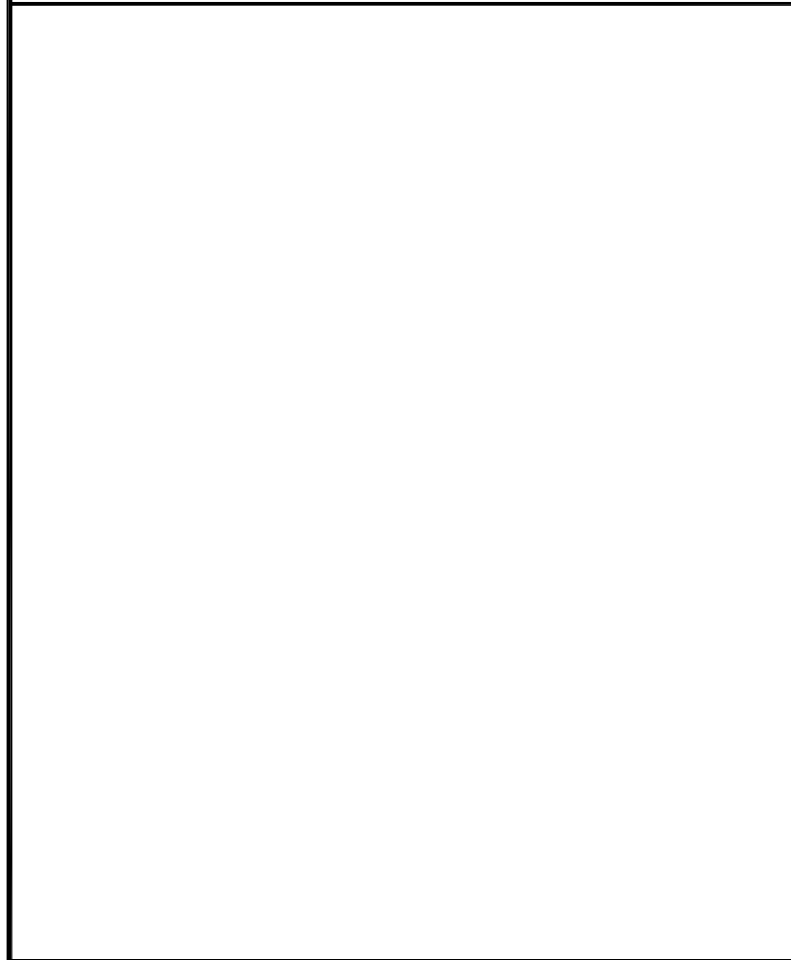
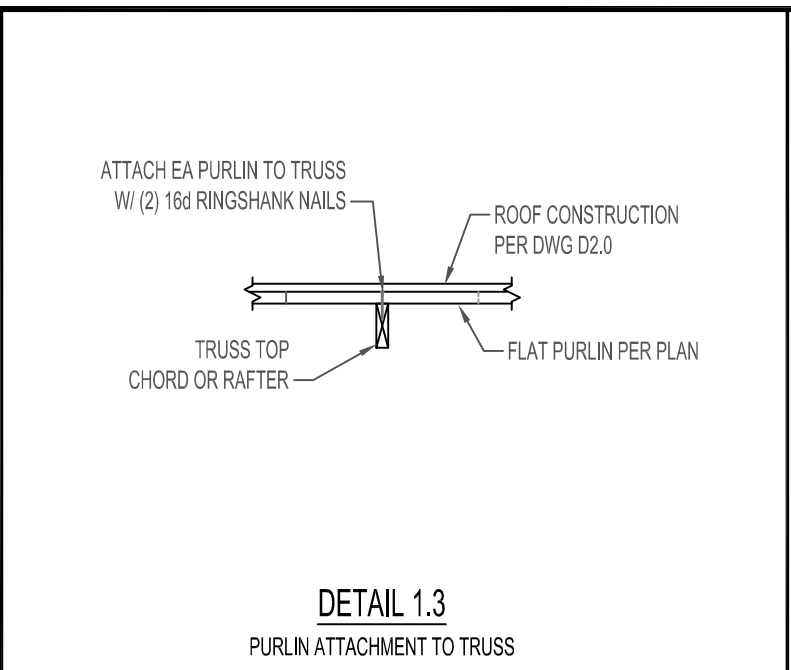
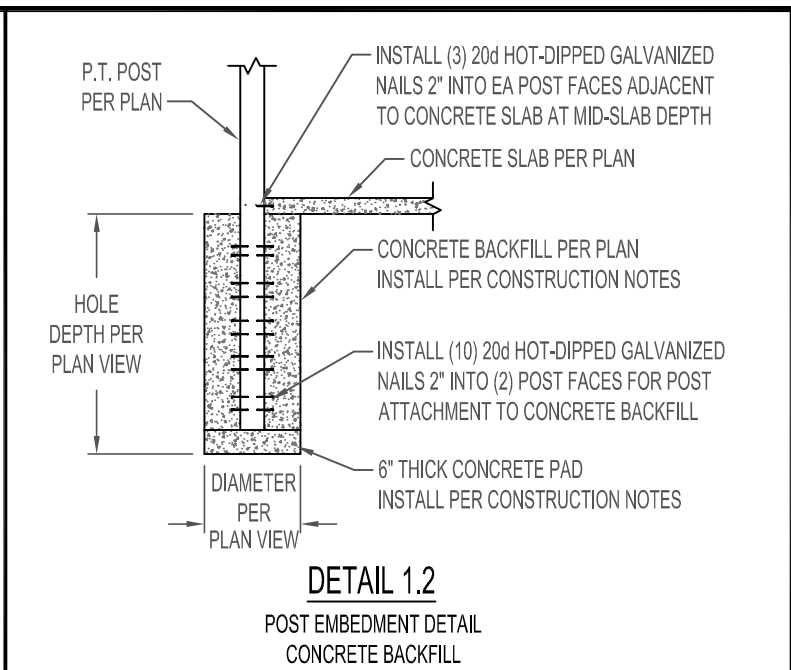
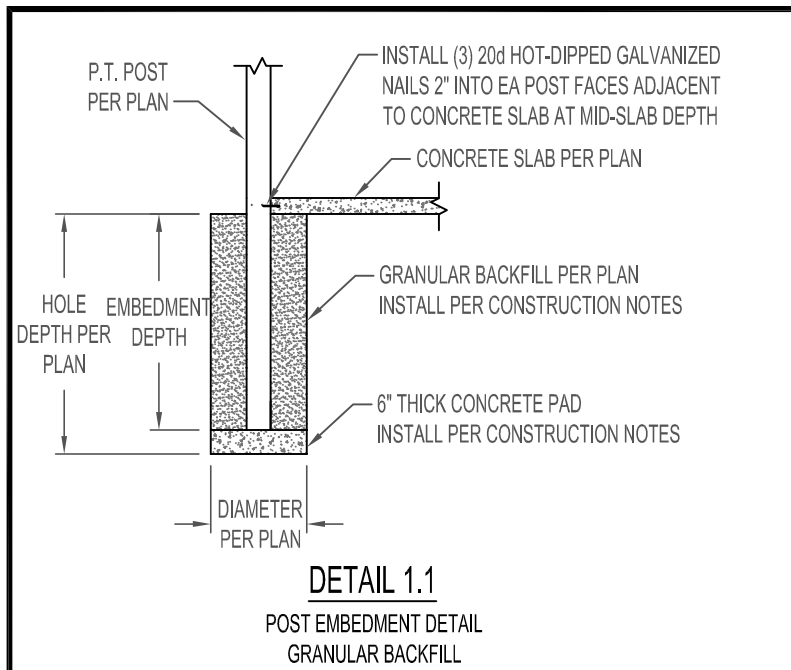
NOTE: INSTALL ALL COMPONENTS NOT SPECIFIED IN THIS SECTION PER DWG S1.0

SECTION D



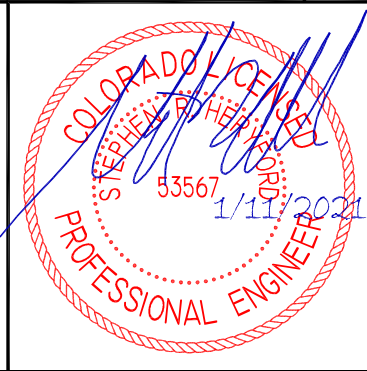
SECTIONS & DETAILS			
DRAWING NO.: S2.0	OWNER: SHAUN NELMS		
REV.: 0	SHEET: 5	LOCATION: 4371 PRAIRIE RANCH VIEW	
PROJECT NO.: 12006069		PEYTON, CO. 80831	
DATE: 13 OCT 2020	SCALE: 3/8"= 1'-0"	DRAWN BY: LD	
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**GENERAL NOTES**

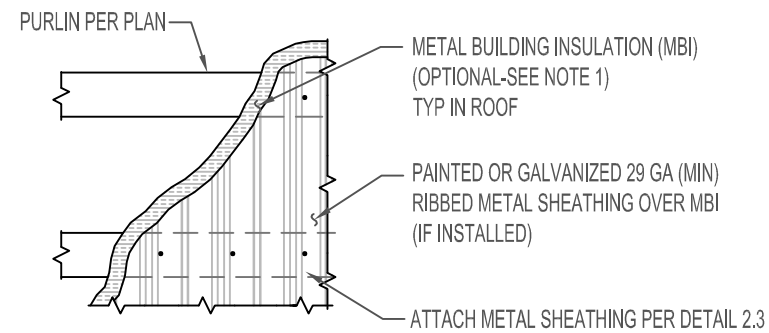
1. ALL NAILS INTO PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED
2. IF PURLIN DEPTH EXCEEDS TRUSS TOP CHORD DEPTH, USE SIMPSON JB TOP FLANGE HANGER OR EQUAL



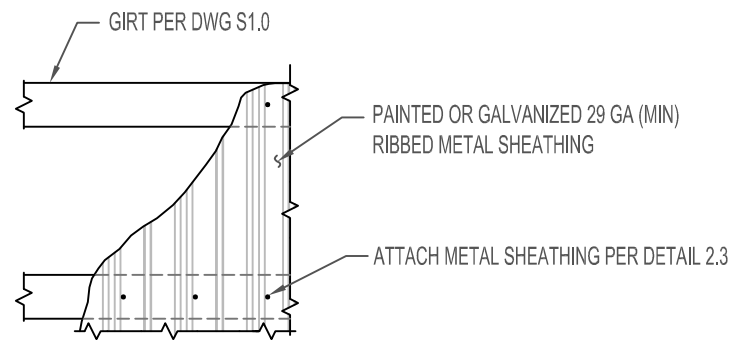
**POSTHOLE, PURLIN & GIRT DETAILS**

DRAWING NO.: D1.0	OWNER: SHAUN NELMS
REV.: 0	SHEET: 6
PROJECT NO.: 12006069	LOCATION: 4371 PRAIRIE RANCH VIEW PEYTON, CO. 80831
DATE: 13 OCT 2020	SCALE: NTS
	DRAWN BY: LD

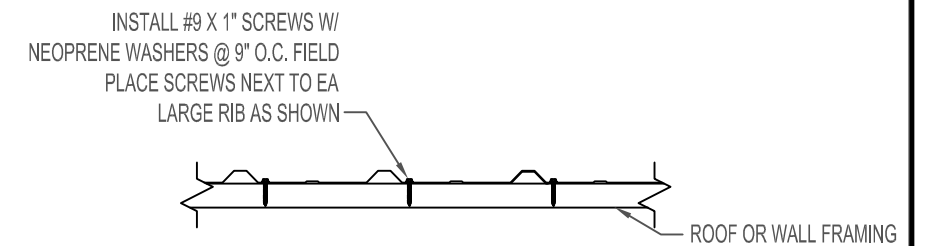

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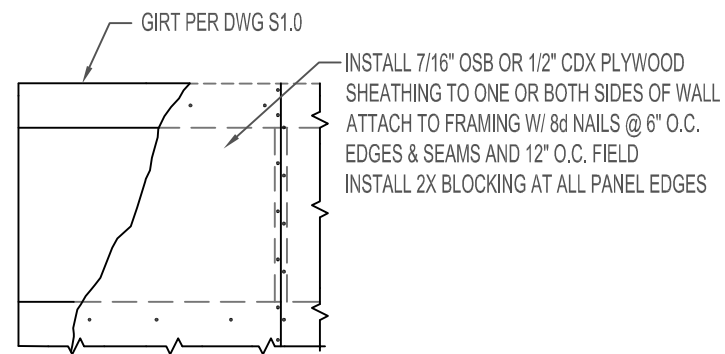
**DETAIL 2.1**  
ROOF SHEATHING



**DETAIL 2.2**  
WALL SHEATHING



**DETAIL 2.3**  
SCALE X2  
METAL SHEATHING ATTACHMENT  
STANDARD SCREW SCHEDULE




**DETAIL 2.4**  
DIVIDE WALL

**GENERAL NOTES**

1. METAL BUILDING INSULATION IS NOT REQUIRED BUT IS RECOMMENDED TO REDUCE OR PREVENT CONDENSATION
2. FLAT GIRTS ARE SHOWN FOR WALL CONSTRUCTION. WALL SHEATHING INSTALLATION IS SIMILAR FOR COMMERCIAL GIRTS.



SHEATHING DETAILS			
DRAWING NO.: D2.0	OWNER: SHAUN NELMS		
REV.: 0	SHEET: 7	LOCATION: 4371 PRAIRIE RANCH VIEW	
PROJECT NO.: 12006069		PEYTON, CO. 80831	
DATE: 13 OCT 2020	SCALE: NTS	DRAWN BY: LD	
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