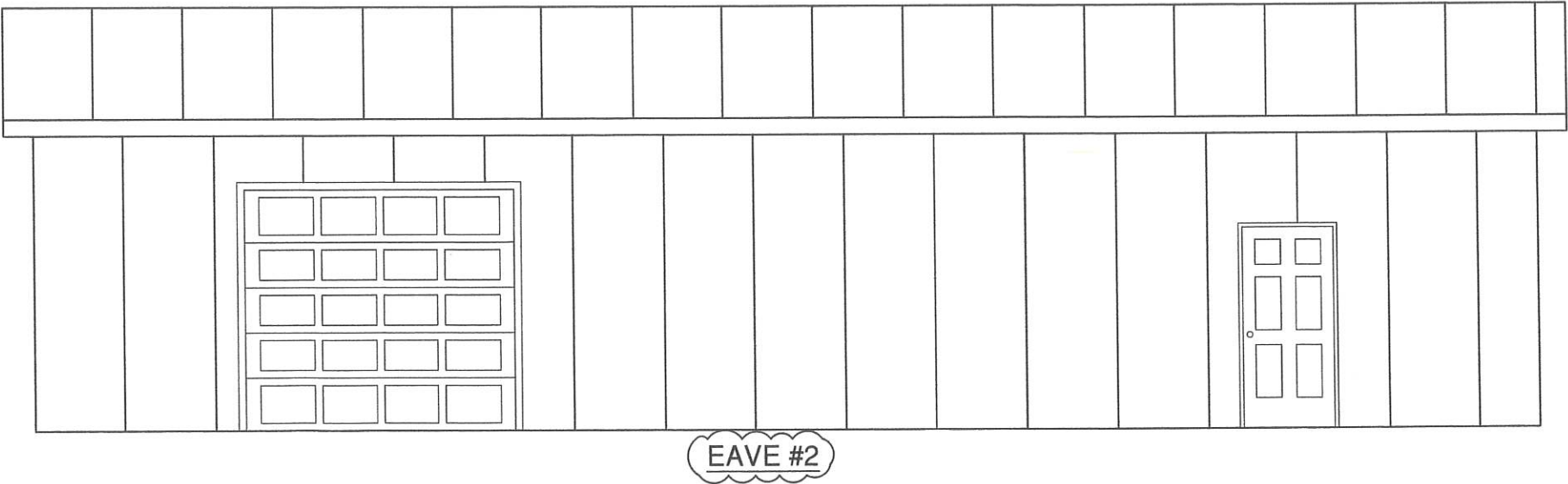
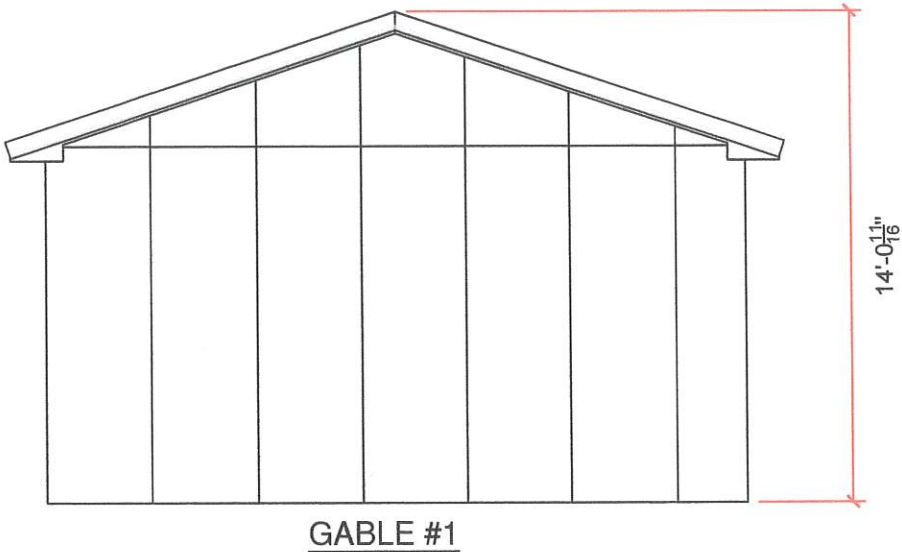


Eave #2:

Gable #1:  
Front

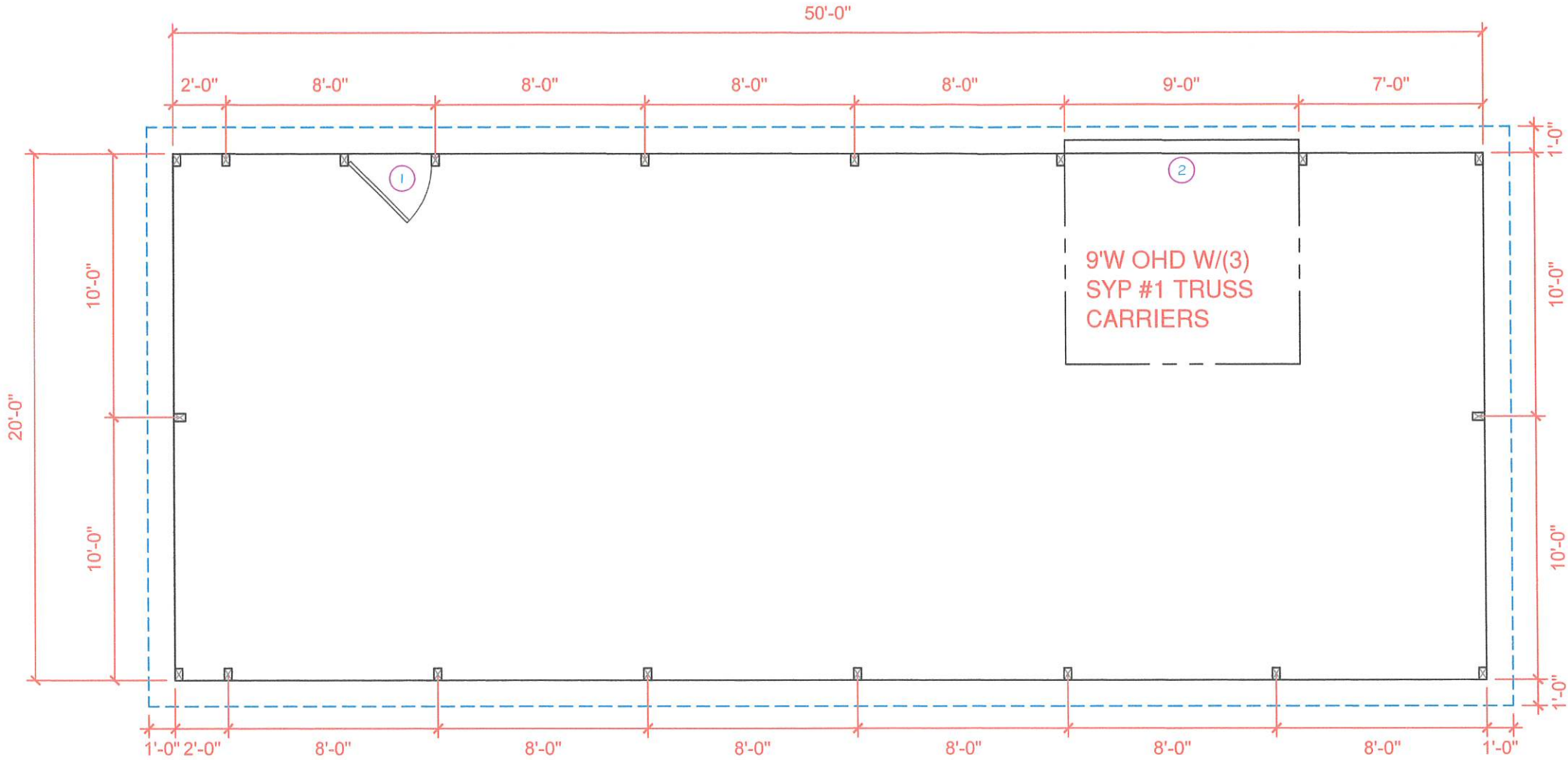
Eave #1:  
Front

Gable #2:



Revisions:	8-29-2024: (HLK) #004, QUOTE TO CONTRACT		BUILDING SIZE: 20x50x10'-4"		DATE: 5-22-2024	James A. Koppenhaver, P.E. 555 Van Reed Rd Wyomissing, PA 19610 484-794-9949 koppenhaverpe@gmail.com	
			DRAWN BY: HEIDI KLOCK	Job Number: McGREGOR-1	SHEET: Elevations		
			CHECKED BY:				
			PPB. Inc. Pioneer Pole Buildings, Inc. 716 South Rt. 183 Schuylkill Haven, PA 17972 1-888-448-2505 Toll Free		JOB SITE ADDRESS: SAME	CUSTOMER ADDRESS: WESTWOOD COUNTRY CLUB DAVID MCGREGOR BRIAN STONE 800 MAPLE AVE E VIENNA, VA 22180 703-755-5363 (H) 954-260-2011 (M)	
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Eave #2:	
Gable #1: Front	Gable #2: Front
Eave #1: Front	



WINDOW & DOOR SCHEDULE

SYM	TYPE OF WINDOW / DOOR	NOMIN.	R.O.
1	ENTRY DOOR	3068	38" x 82 1/2"
2	OVERHEAD DOOR	9x8	9'-0" x 8'-4"

Revisions:

8-29-2024: (HLK) #004, QUOTE TO CONTRACT

BUILDING SIZE: 20x50x10'-4"

DATE: 5-22-2024

James A. Koppenhaver, P.E.  
555 Van Reed Rd  
Wyomissing, PA 19610  
484-794-9949  
koppenhaverpe@gmail.com

DRAWN BY: HEIDI KLOCK  
CHECKED BY:

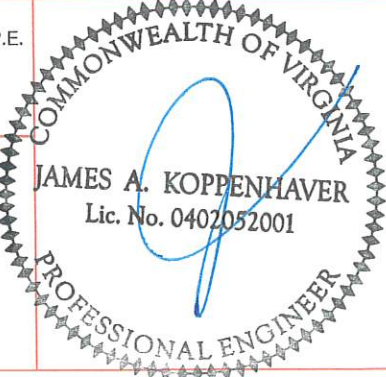
Job Number: McGREGOR-1

SHEET: Pole Plan

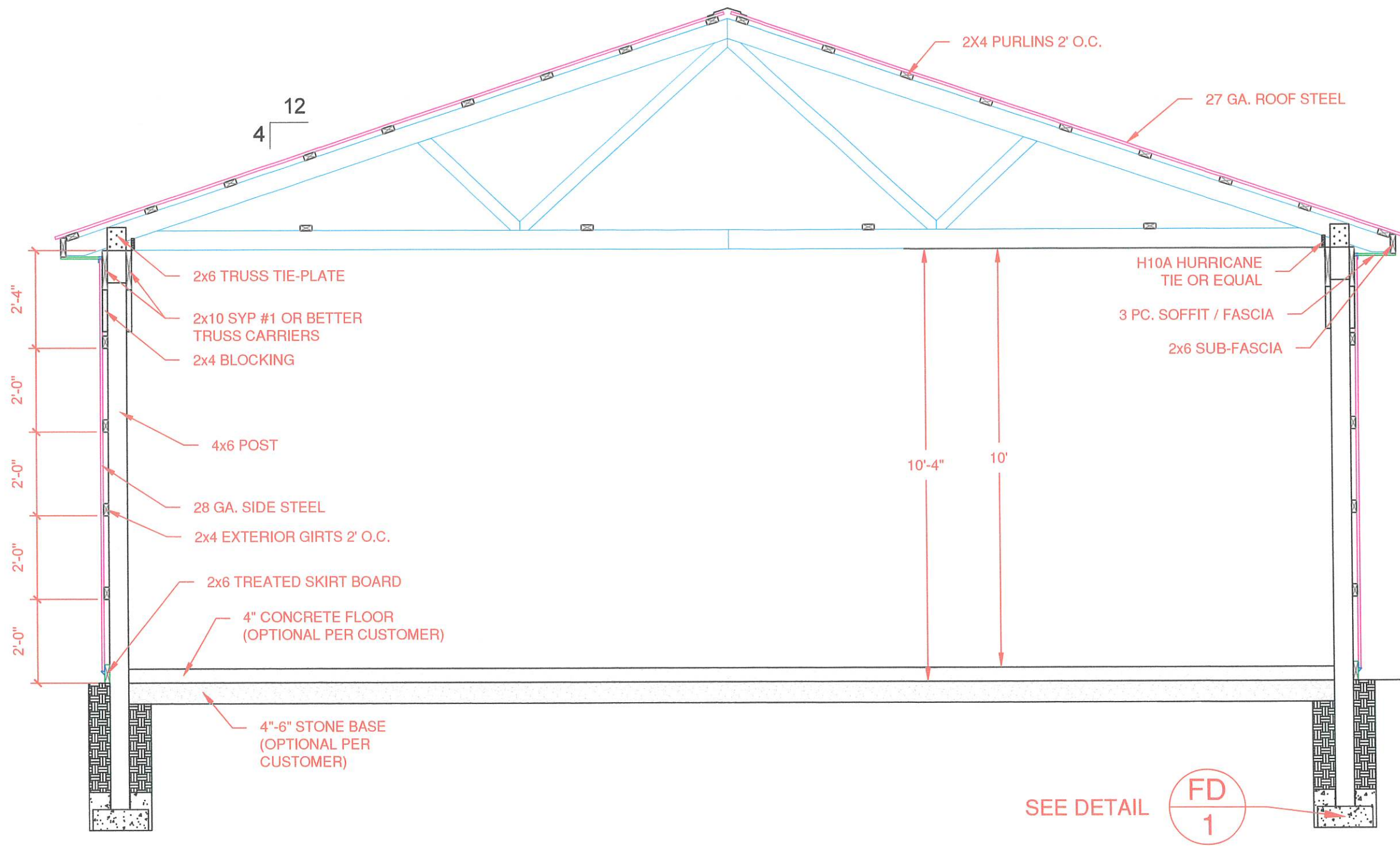
**PPB. Inc.**  
Pioneer Pole Buildings, Inc.  
716 South Rt. 183  
Schuylkill Haven, PA 17972  
1-888-448-2505 Toll Free

JOB SITE ADDRESS:  
SAME

CUSTOMER ADDRESS:  
WESTWOOD COUNTRY CLUB  
DAVID MCGREGOR  
BRIAN STONE  
800 MAPLE AVE E  
VIENNA, VA 22180  
703-755-5363 (H)  
954-260-2011 (M)







TYP. CROSS SECTION

Revisions:	8-29-2024: (HLK) #004, QUOTE TO CONTRACT		BUILDING SIZE: 20x50x10'-4"		DATE: 5-22-2024	<div>James A. Koppenhaver, P.E. 555 Van Reed Rd Wyomissing, PA 19610 484-794-9949 koppenhaverpe@gmail.com</div> <div>COMMONWEALTH OF VIRGINIA JAMES A. KOPPENHAVER Lic. No. 0402052001 PROFESSIONAL ENGINEER</div>
			DRAWN BY: HEIDI KLOCK	Job Number: McGREGOR-1	SHEET: TYP	
			CHECKED BY:		Cross Section	
			PPB. Inc. Pioneer Pole Buildings, Inc. 716 South Rt. 183 Schuylkill Haven, PA 17972 1-888-448-2505 Toll Free		JOB SITE ADDRESS: SAME	
					CUSTOMER ADDRESS: WESTWOOD COUNTRY CLUB DAVID MCGREGOR BRIAN STONE 800 MAPLE AVE E VIENNA, VA 22180 703-755-5363 (H) 954-260-2011 (M)	

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Job

24051206B

Truss

T20

Truss Type

COMMON

Qty

14

Ply

1

McGregor 400733-003

Job Reference (optional)

UFP Site Built, LLC, UFP 20/20

Run: 8.730 s Jan 4 2024 Print: 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri May 17 07:46:12 2024 Page 1  
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0-10-8

0-10-8

6-5-0

6-5-0

10-0-0

3-7-0

13-7-0

3-7-0

20-0-0

6-5-0

20-10-8

0-10-8

Scale = 1:35.7

Plate Offsets (X,Y)-- [2:0-4-2,Edge], [6:0-4-2,Edge], [8:0-4-0-0-4-8]

LOADING (psf)	SPACING- 4-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.16	8-14	>999	240	MT20	197/144
TCDL 5.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.23	8-14	>999	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.49	Horz(CT) 0.06	6	n/a	n/a		
BCDL 5.0	Code IBC2018/TPI2014	Matrix-MS						

Weight: 113 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

WEBS 2x4 SPF No.2

REACTIONS.

(lb/size) 2=1844/0-8-8, 6=1844/0-8-8

Max Horz 2=-119(LC 15)

Max Uplift 2=-530(LC 10), 6=-530(LC 11)

Max Grav 2=1971(LC 21), 6=1971(LC 22)

FORCES.

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-15=-4120/1574, 15-16=4037/1576, 3-16=-4027/1588, 3-4=-2911/1201, 4-5=-2911/1201, 5-17=-4027/1588, 17-18=4037/1576, 6-18=-4120/1574, 6-7=0/32

BOT CHORD 2-8=-1347/3830, 6-8=-1347/3830

WEBS 3-8=-1580/585, 4-8=-484/1326, 5-8=-1580/585

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-10 max.).

BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-7-13 to 3-4-3, Interior(1) 3-4-3 to 6-0-0, Exterior(2R) 6-0-0 to 13-10-3, Interior(1) 13-10-3 to 16-7-13, Exterior(2E) 16-7-13 to 20-7-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=40.0 psf; Pf=33.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cti=1.20

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 33.6 psf on overhangs non-concurrent with other live loads.

6) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 530 lb uplift at joint 2 and 530 lb uplift at joint 6.

9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

COMMONWEALTH OF VIRGINIA

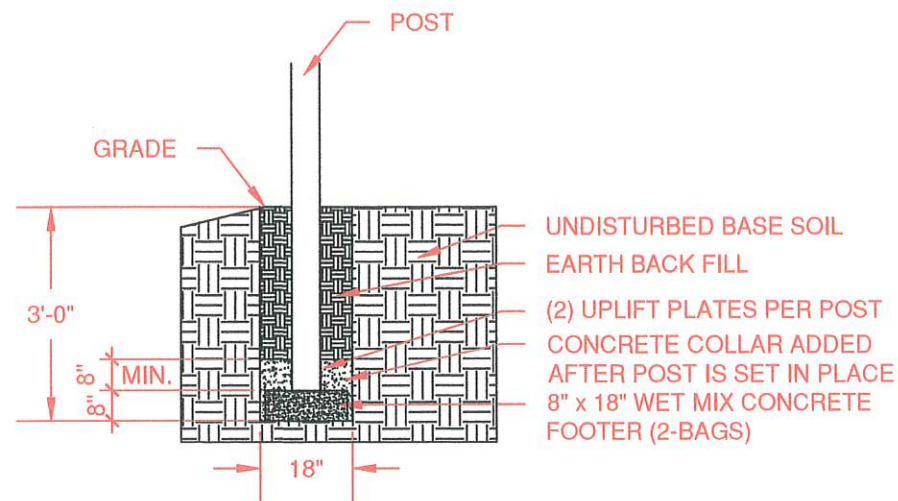
JAMES M. CAPITANIO

Lic. No. 0402061906

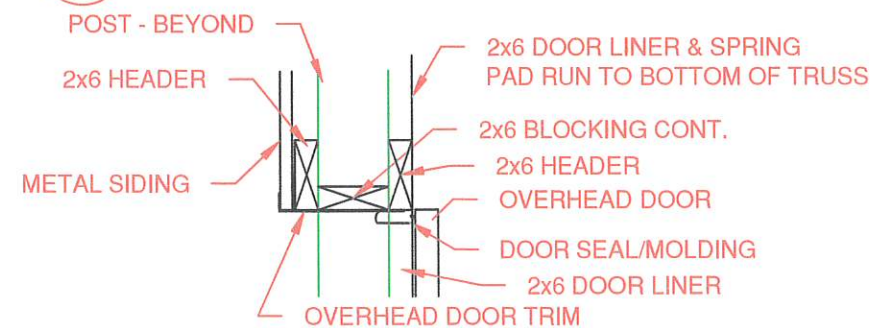
PROFESSIONAL ENGINEER

05/17/2024

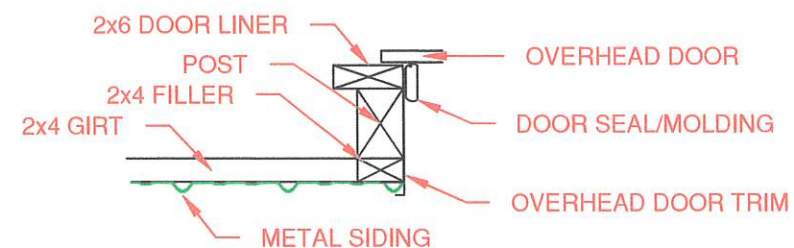




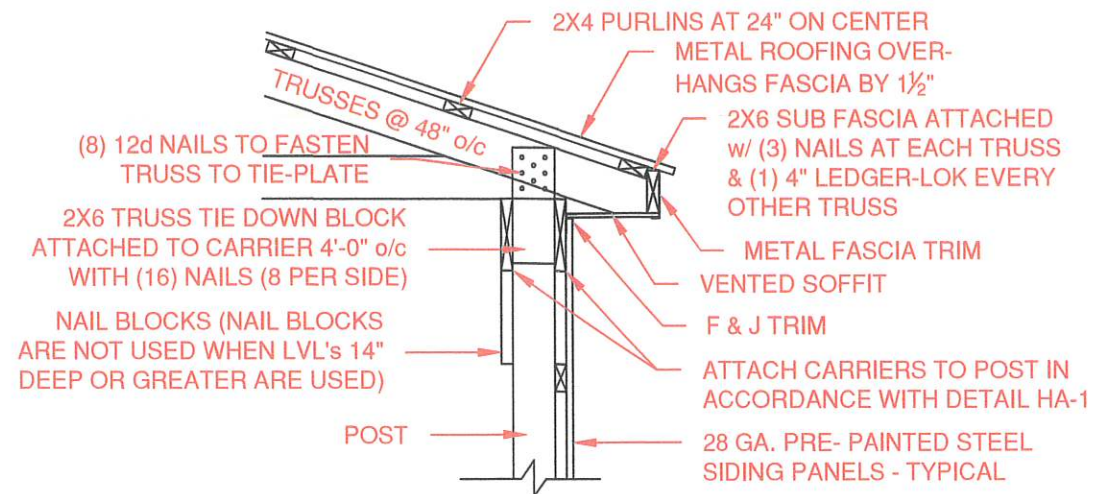
FD  
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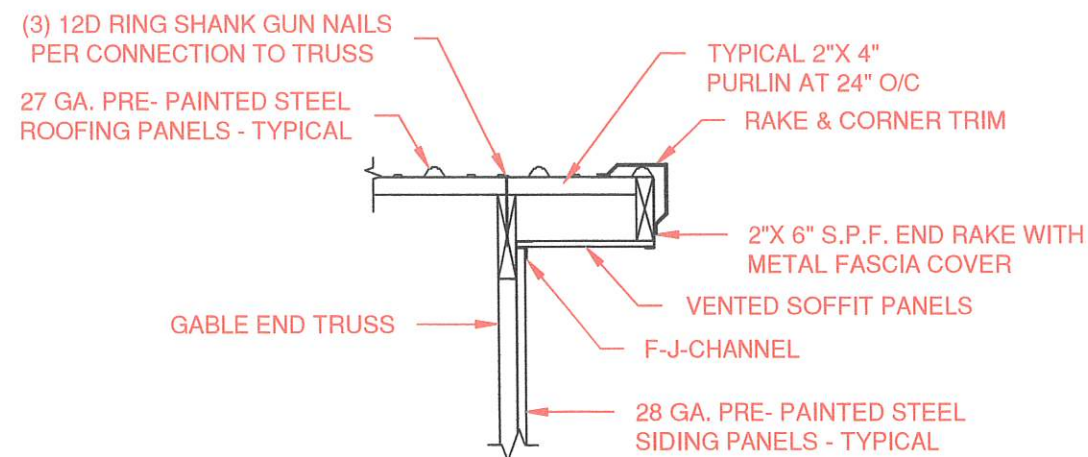
OD O.H. DOOR HEADER DETAIL  
1



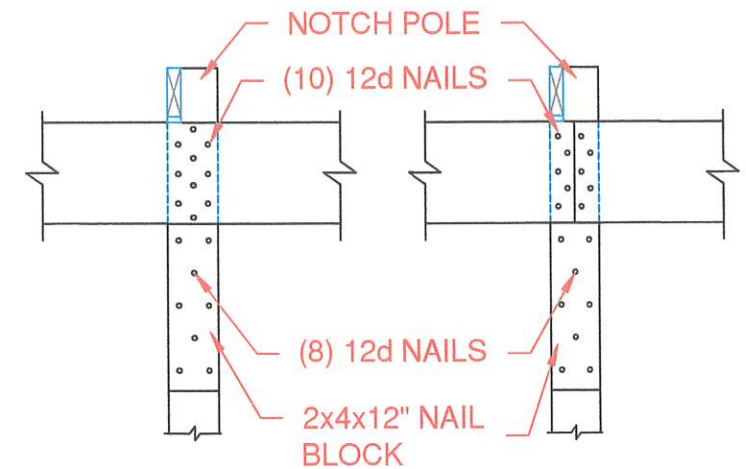
OD O.H. DOOR JAMB DETAIL  
2



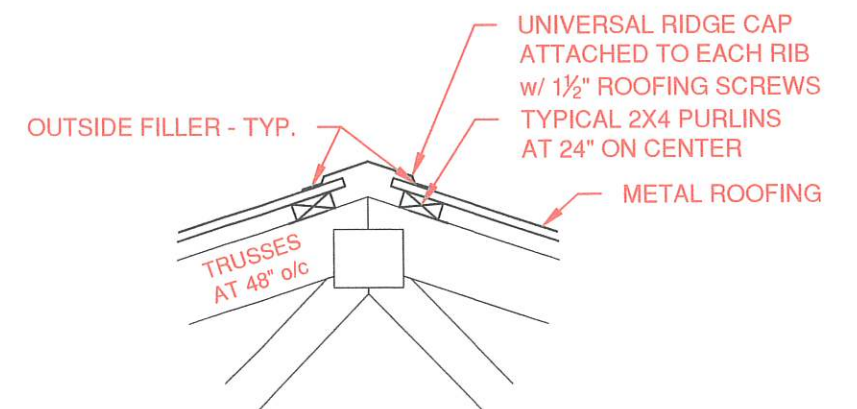
RE STEEL ROOF EDGE DETAIL



GD TYPICAL GABLE OVERHANG DETAIL



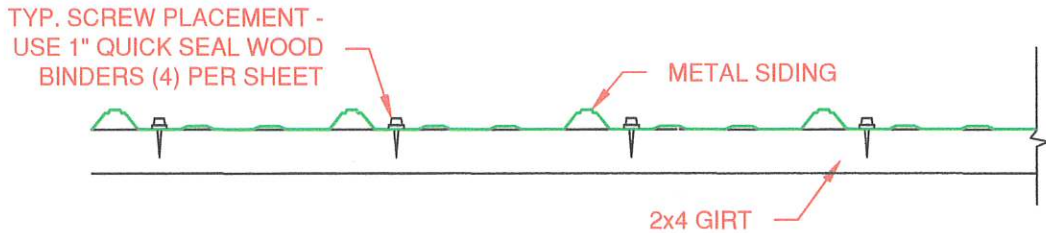
	<u>CONTINUOUS</u>	<u>SPLICED</u>
A	2X10 SYP #1 OR BETTER HEADER ATTACHMENT	



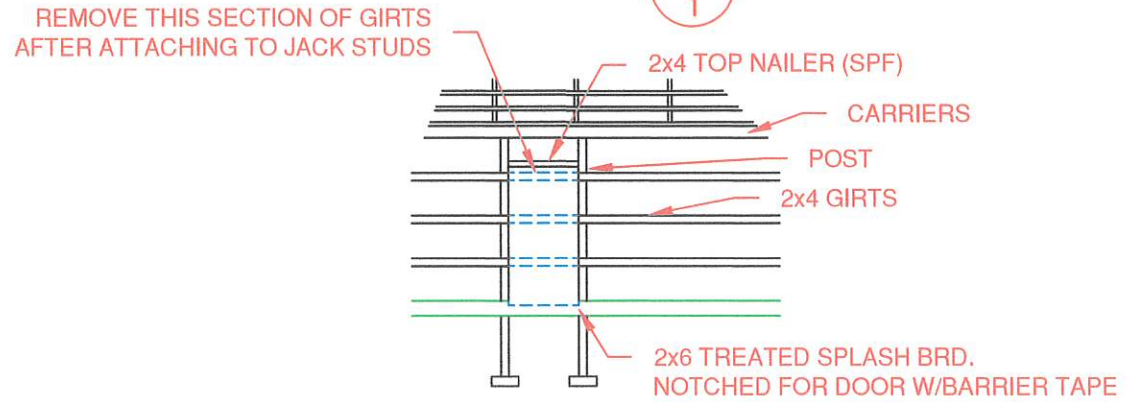
## SR STEEL ROOF RIDGE DETAIL

Revisions:	8-29-2024: (HLK) #004, QUOTE TO CONTRACT		BUILDING SIZE: 20x50x10'-4"		DATE: 5-22-2024	James A. Koppenhaver, P.E. 555 Van Reed Rd Wyomissing, PA 19610 484-794-9949 koppenhaverpe@gmail.com	
			DRAWN BY: HEIDI KLOCK	Job Number: McGREGOR-1	SHEET: Detail A		
			CHECKED BY:				
			PPB. Inc. Pioneer Pole Buildings, Inc. 716 South Rt. 183 Schuylkill Haven, PA 17972 1-888-448-2505 Toll Free		JOB SITE ADDRESS: SAME	CUSTOMER ADDRESS: WESTWOOD COUNTRY CLUB DAVID MCGREGOR BRIAN STONE 800 MAPLE AVE E VIENNA, VA 22180 703-755-5363 (H) 954-260-2011 (M)	
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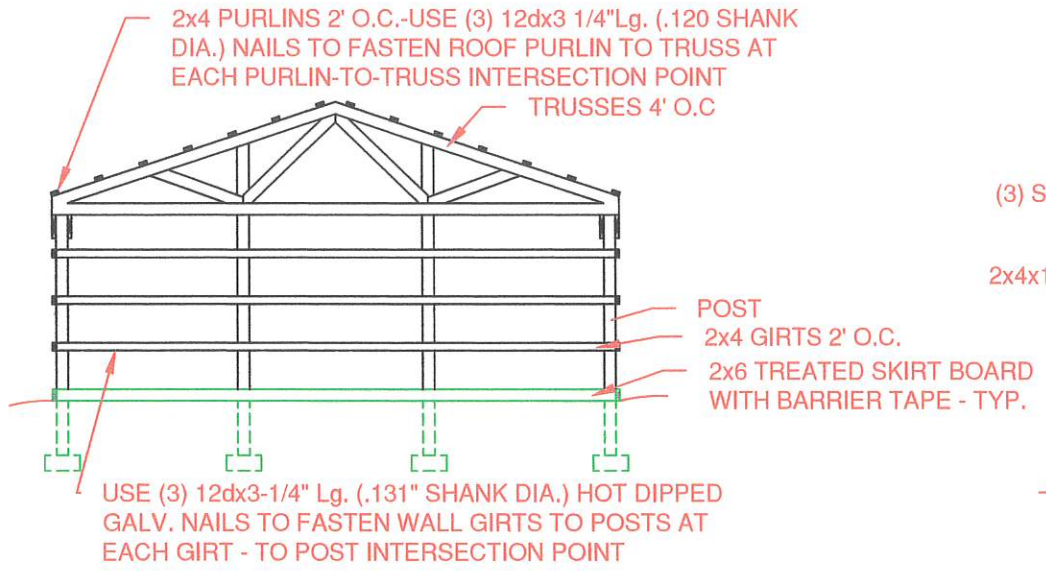




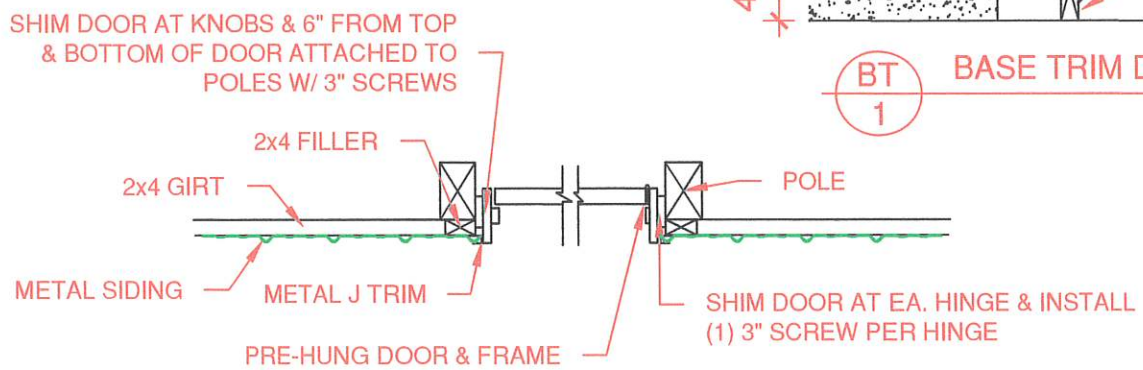
SS 1 SIDING SCREW PATTERN DETAIL



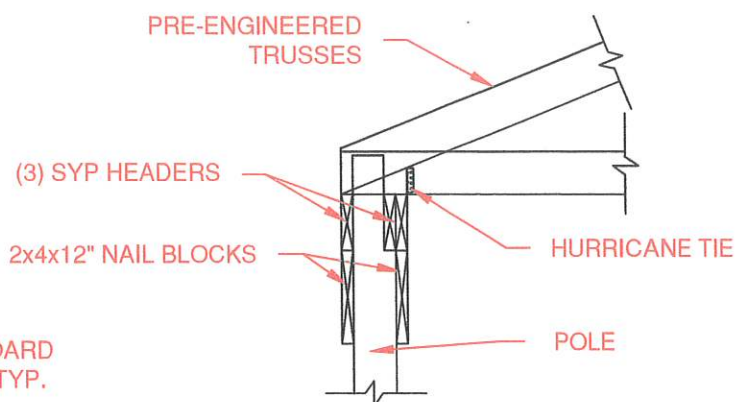
SD 1 SERVICE DOOR FRAMING DETAIL



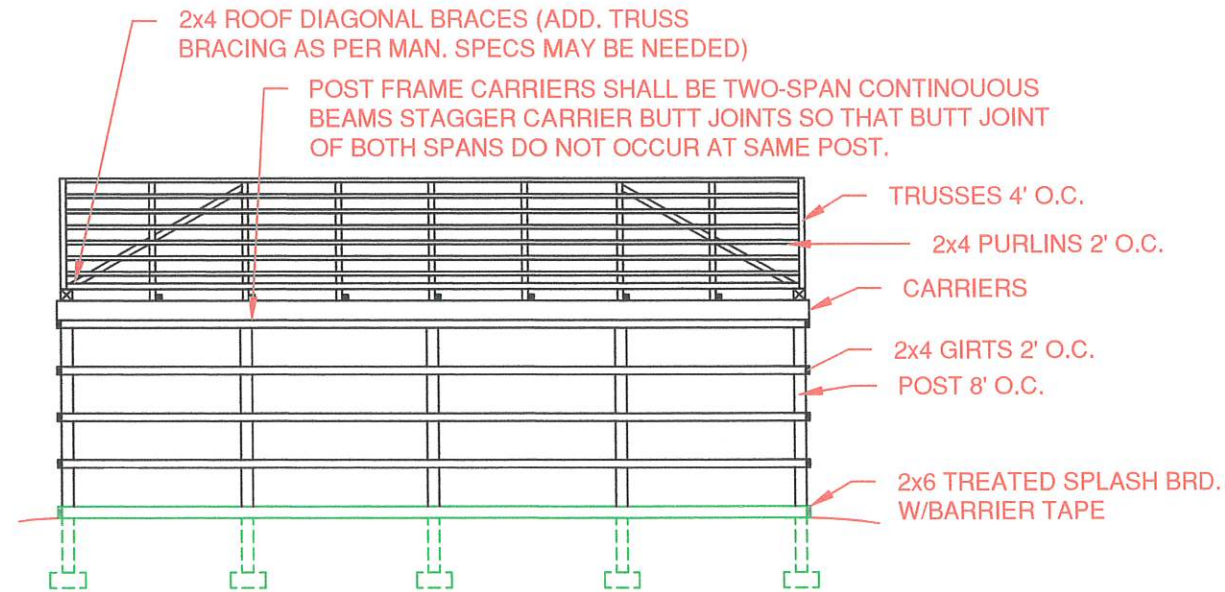
GF 1 GENERAL GABLE VIEW DETAIL



SD 2 SERVICE DOOR JAMB DETAIL

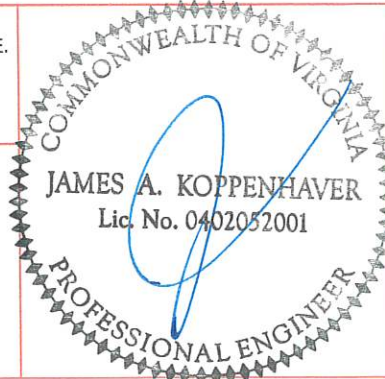


TH 1 TRIPLE HEADER @ O.H.D. DETAIL



EF 1 GENERAL EAVE VIEW DETAIL

Revisions:

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	DRAWN BY: HEIDI KLOCK	Job Number: MCGREGOR-1	SHEET: Detail B		
	CHECKED BY:				
	PPB. Inc. Pioneer Pole Buildings, Inc. 716 South Rt. 183 Schuylkill Haven, PA 17972 1-888-448-2505 Toll Free		JOB SITE ADDRESS: SAME	CUSTOMER ADDRESS: WESTWOOD COUNTRY CLUB DAVID MCGREGOR BRIAN STONE 800 MAPLE AVE E VIENNA, VA 22180 703-755-5363 (H) 954-260-2011 (M)	
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General Notes:

Foundations:

- A. Bottom of all exterior footings shall be minimum of 3'-0" below finished grade. Minimum size 8" high x 18" round or as noted.
- B. Assumed design soil bearing pressure = 2,000 PSF U.N.O.
- C. Minimum concrete footing strength to be 3,500 PSI at 28 days.

Metal Cladding:

- A. Steel siding and roofing panels shall be fabricated from 27 # 28 gauge, grade e 180 KSI structural quality steel conforming to ASTM A-446 with a hot dipped galvanized coating conforming to ASTM A-525 or with an aluminum-zinc alloy coating conforming to ASTM A-792 (plain products only).

- B. Paint Finish: All panels when required shall receive a factory applied polyester coating conforming to the manufacturer's specifications.

- C. Flashings: All flashings shall be shop fabricated from material that is the same gauge and finish as the wall/roof panels to which they are attached.

- D. Closures: Shall be pre-molded neoprene to match the configuration of the wall/roof panel and shall be in lengths as supplied by the panel manufacturer.

- E. Fasteners: All screw fasteners shall have a combination steel and neoprene washer. Nails shall have a Fabriseal washer or equivalent. Fastener selection and installation shall be as recommended by the cladding manufacturer.

Wood Trusses:

- A. Trusses are to be designed and fabricated in accordance with the published standards of the National Forest Products Association and the Truss Plate Institute's "Design Specifications for Light, Metal Plate Connected Wood Trusses" (TPI-XX) Latest Edition.

- B. The web configuration plate sizes, chord sizes and lateral bracing shall be designed by a licensed professional engineer. The truss manufacturer shall provide the contractor with shop drawings of each truss design bearing the engineers seal. Shop drawings shall be approved by the contractor before fabrication.

- C. All trusses shall be designed for the loading, spacing and geometry shown on the plan.

- D. The contractor shall install the bracing of the wood trusses in accordance with the manufacturer's design. Minimum lateral bracing of web and bottom chord members shall be as required by truss design.

Lumber:

- A. All lumber shall comply to the requirements of the American Institute of Timber Construction and the National Forest Products Association's "National Design Specification for Wood Construction".

- B. All lumber for posts and beams shall be #2 or better southern yellow pine grade stamped by a SPIB approved mill, surfaced at a maximum moisture content of 19% treated .6 pcf CCA, .23 pcf MCA, or equal.

- C. All lumber for headers shall be SYP #1 or Better, grade stamped by a SPIB approved mill, surfaced at a maximum moisture content of 19%.

- D. All lumber exposed to ground contact or insect infestation shall be treated according to the American Wood preservers' Association Standards, .15 pcf MCA or equal.

Connections:

- A. All wood connection to be made according to the "National Design Specification for Wood Construction". The minimum connection to be two 12 penny nails. Other connection as per plan or as controlled by standard construction practices.

- B. It is acceptable for 2x4 wind girt spacing to vary from 18" to 30", when the span of the girt is 10' or less. Horizontal spacing of fasteners for the metal wall panels shall be in accordance with the panel manufacturer's instructions. The wind girt spacing up to 30" conforms to the rigid diaphragm design for post frame walls.

CONTRACT # 400733-004

Cautionary Notes:

- 1. Structural components such as posts, beams, trusses or fasteners and attachment brackets should NOT be modified, notched or cut in any manner without proper review and approval of the building design professional.

- 2. Rainwater and melt water should be directed away from post foundation locations.

- 3. On enclosed buildings with large doors (that is buildings designed as completely enclosed) the doors should be closed during periods high wind and/or stormy weather to reduce uplift forces on the building.

- 4. Do NOT lean heavy materials against posts or girts unless the building has been designed for those types of loads. Do NOT store loose material against walls unless building has been designed for side thrust loads and any moisture contained in the loose materials.

- 5. Do NOT use the roof trusses for storing material unless the building and roof trusses have been designed for those loads.

- 6. Concentrated loads such as ceiling-mounted furnaces, wet sprinkler systems, ventilation hoods, etc. SHALL NOT be attached to the roof trusses without the prior review and written approval of Pioneer Pole Buildings, Inc. and the building design professional.

- 7. Do NOT install hardware that would maintain snow cover on the roof of buildings without the prior review and written approval of Pioneer Pole Buildings, Inc. and the building design professional.

- 8. Do NOT attach additional buildings or lean-to enclosed areas to pole barn buildings unless the building has been designed for the additional loads created by these building additions and needs the written approval of Pioneer Pole Buildings, Inc. and the building design professional.

- 9. Door openings should NOT be added to the building walls after the building has been constructed without review and approval of the building design professional.

Misc. Notes:

These plans are designed in accordance with the 2018 IBC Construction Class VB

TRUSS CARRIERS USED TO BE EQUAL TO OR BETTER THAN 2x10 SYP #1  
(3) 2x10 SYP #1 TRUSS CARRIERS USED OVER OHD OPENING

HURRICANE TIES USED = H10A OR EQUAL  
UNIVERSAL RIDGE VENT  
DBL BUBBLE VAPOR BARRIER - ROOF  
IBC USE GROUP UTILITY U

DESIGN CRITERIA:  
Ground Snow Loads:  
Ground Snow Load (psf) = 40  
Wind Speed:  
Wind Speed = 115 mph  
Truss Loads:  
Top Chord Live (psf) = 30  
Top Chord Dead (psf) = 5  
Bottom Chord Live (psf) = 0  
Bottom Chord Dead (psf) = 5

Revisions:

8-29-2024: (HLK) #004, QUOTE TO CONTRACT

BUILDING SIZE: 20x50x10'-4"

DRAWN BY:

HEIDI KLOCK

CHECKED BY:

Job Number:

McGREGOR-1

DATE:

5-22-2024

SHEET:

Notes

James A. Koppenhaver, P.E.

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