



WOODLAWN FIRE DEPARTMENT

1651 WHITE HALL AVE
ALLEN TOWN, PA 18104

36' X 31' X 12' (EAVE HT. 13'-6 1/2")

SCOPE OF WORK

NO MECHANICAL / ELECTRICAL / PLUMBING / ARCHITECTURAL WORK IS INTENDED OR IS PART OF THE SCOPE OF THE DRAWINGS PRESENTED.

DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, ASCE7-16, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
- ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED.
- ALL FIELD CONNECTIONS SHALL BE #12 (1/4"x1") (ESR-2196) OR APPROVED EQUAL.
- STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 GALV. STEEL.
- STRUCTURAL TUBE T52 1/2"x2 1/2" - 14GA. IS EQUIVALENT TO T52 1/4"x2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- 12GA IS DEFINED AS 0.109" THICKNESS. 14GA IS DEFINED AS 0.083" THICKNESS. 26GA IS DEFINED AS 0.019" THICKNESS. 29GA IS DEFINED AS 0.015" THICKNESS.
- GYPSON BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE, U.N.O.
- INSERTED POST: INSERT FULL LENGTH & FIELD BOLT W/ #12X1" FASTENERS (ESR-2196) @ 12" C/C STAGGERED OPPOSITE FACE.

DESIGN CRITERIA

PREVAILING CODE:	IBC 2018
USE GROUP:	U (SHED / NON-ESSENTIAL)
CONSTRUCTION TYPE:	II - B
RISK CATEGORY:	II
BUILDING FOOTAGE:	1080 SQ.FT
1. DEAD LOAD (D) D = 2.0 PSF	
2. ROOF LIVE LOAD (Lr) Lr = 20 PSF	
3. SNOW LOAD (S)	
GROUND SNOW LOAD	Pg = 40 PSF
IMPORTANCE FACTOR	Is = 1.00
THERMAL FACTOR	Ct = 1.2
EXPOSURE FACTOR	Ce = 1.0
ROOF SLOPE FACTOR	Cs = 1.0
FLAT ROOF SNOW LOAD	Pf = 34 PSF
SLOPED ROOF SNOW LOAD	Ps = 34 PSF
4. WIND LOAD (W)	
DESIGN WIND SPEED	Vult = 115 MPH
EXPOSURE	C
5. SEISMIC LOAD (E)	
Ss/S1	0.168/0.047
SDs/SD1	0.177/0.075
DESIGN CATEGORY	B
SITE CLASS	D
IMPORTANCE FACTOR	Ie = 1.00

LOAD COMBINATIONS:

- D + (Lr OR S)
- D + (0.6W OR ±0.7E)
- D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
- 0.6D + (0.6W OR ±0.7E)

DRAWING INDEX

- COVER SHEET
- ELEVATIONS
- 3A / 3B FOUNDATION PLAN & DETAILS
- FLOOR PLAN
- 5A / 5B FRAME SECTION & DETAILS
- 6A / 6B SIDE WALL FRAMING & DETAILS
- 7A / 7B END WALL FRAMING & DETAILS

SPECIAL INSPECTIONS

1. STEEL CONSTRUCTION
1.1 HIGH STRENGTH BOLT
1.2 STRUCTURAL STEEL MATERIALS
1.3 STRUCTURAL STEEL WELDING
1.4 STRUCTURAL STEEL FRAME JOINT DETAILS
2. CONCRETE CONSTRUCTION
2.1 REINFORCING STEEL PLACEMENT
2.2 ON SITE CONCRETE TESTING
2.3 CONCRETE APPLICATION TECHNIQUES
2.4 CONCRETE CURING TEMPERATURE AND TECHNIQUES
3. SOILS
3.1 SITE PREPARATION
3.2 COMPACTED FILL MATERIALS (IF REQ'D)
3.3 SOIL LOAD BEARING REQUIREMENTS (IF REQ'D)
4. POST INSTALLED ANCHOR BOLTS
4.1 ANCHOR BOLTS ARE TO BE INSPECTED AS PER ICC-ESR RECOMMENDATION

THE OWNER SHALL HIRE LICENSED SPECIAL INSPECTOR AT THEIR OWN COST. THE OWNER MAY BRING TO THE ATTENTION OF THE ENGINEER ANY ISSUES OF CONCERN NOTED BY THE INSPECTOR.

2.0174.0

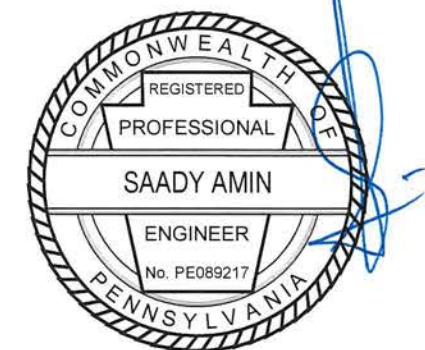
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OWNER:	WOODLAWN FIRE DEPARTMENT	LOCATION:	1651 WHITE HALL AVE ALLEN TOWN, PA 18104
DRAWING NO.:	MBD41CA7130	PROJECT NO.:	033-20-2286
DRAWN BY:	AF	CHECKED BY:	
DATE:	23-09-2020	SHEET NO.:	1 OF 7

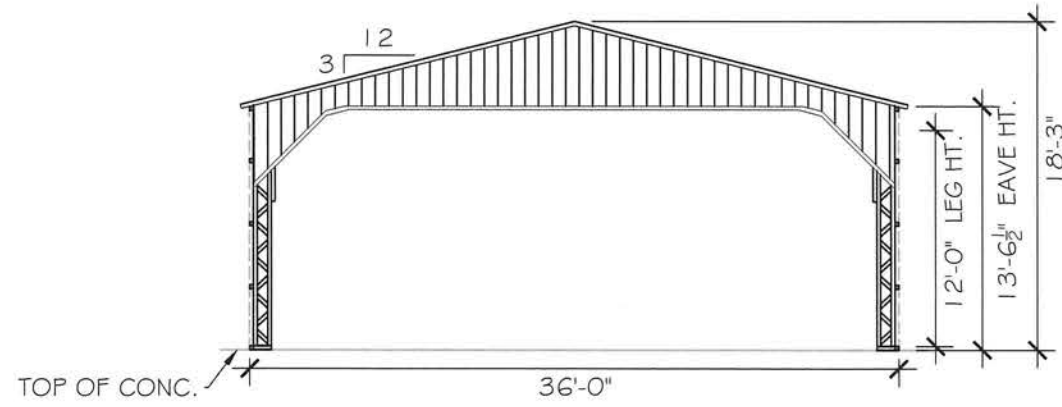


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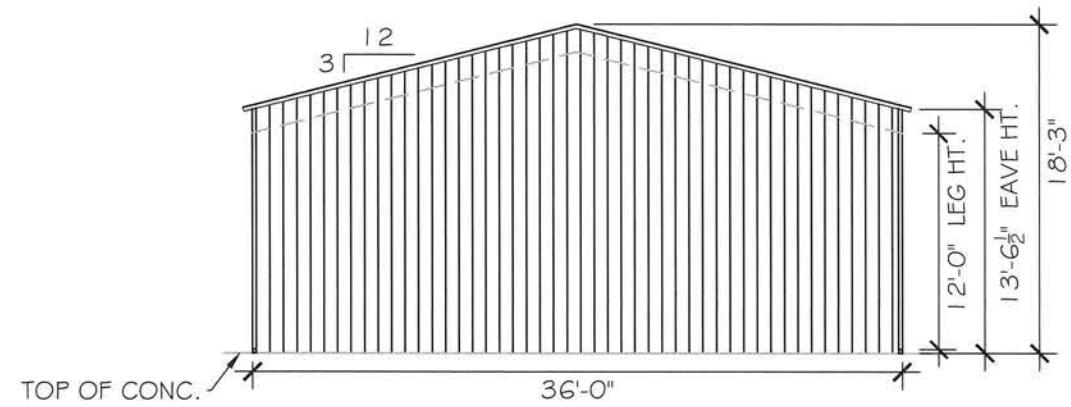
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DATE SIGNED: 09/23/2020



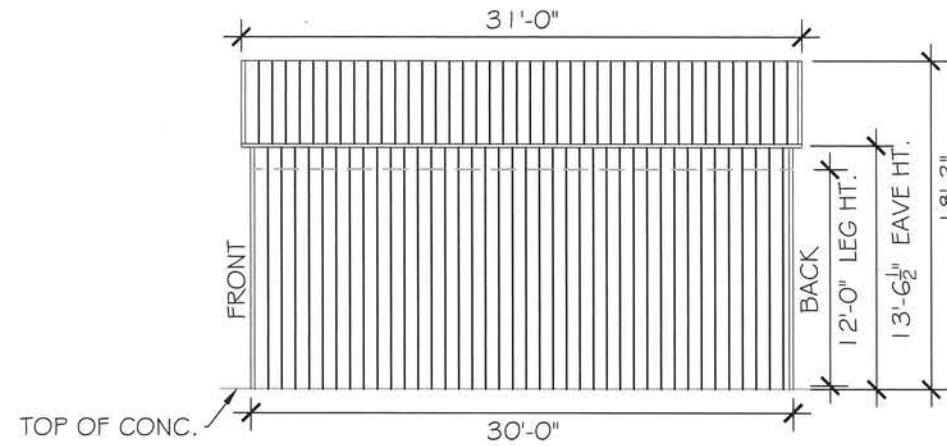
FRONT END WALL ELEVATION

SCALE: 3/32" : 1'



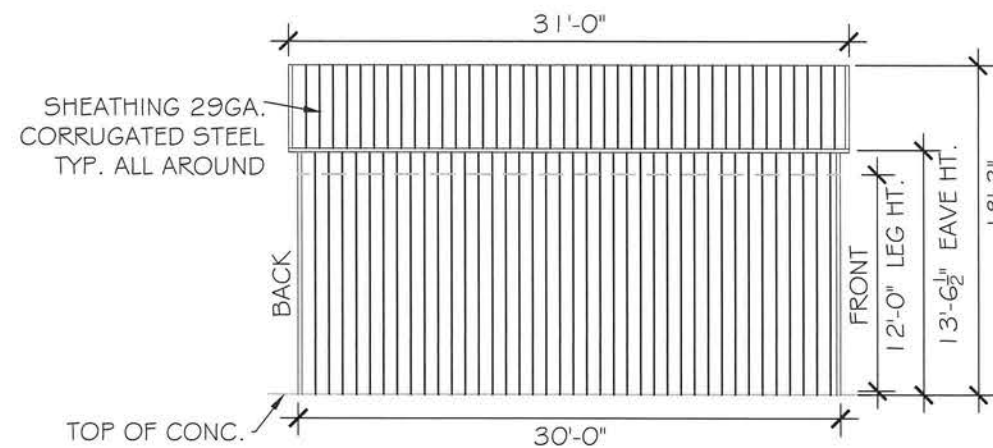
BACK END WALL ELEVATION

SCALE: 3/32" : 1'



RIGHT SIDE WALL ELEVATION

SCALE: 3/32" : 1'



LEFT SIDE WALL ELEVATION

SCALE: 3/32" : 1'

LOCATION: 1651 WHITE HALL AVE
ALLEN TOWN, PA 18104

OWNER: WOODLAWN FIRE DEPARTMENT

SHEET TITLE: ELEVATIONS

PROJECT NO.: 033-20-2286

DRAWING NO.: MBD41CA7130

CHECKED BY: AF

DRAWN BY: AF

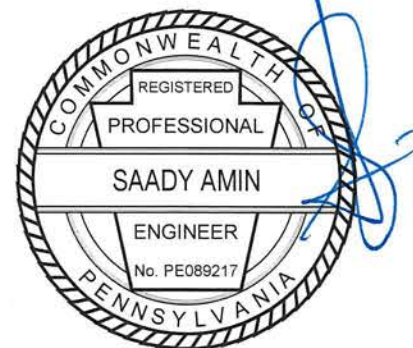
SHEET NO.: 2 OF 7

DATE: 23-09-2020



PREPARED FOR:

SEAL:



EXPIRES: 09/30/2021

DATE SIGNED:

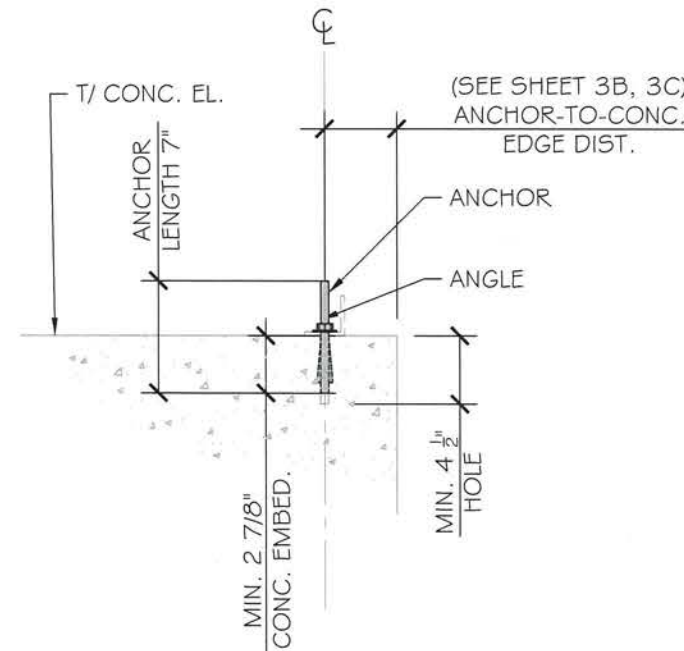
09/23/2020

MEMBER PROPERTIES	
TRUSS CHORD	2 1/2" SQ. X 14GA TUBE
TRUSS WEB	2 1/2" SQ. X 14GA TUBE
TRUSS CHORD REINF.	2 1/2" SQ. X 14GA TUBE
CORNER POST / ROOF	2 1/2" SQ. X 14GA TUBE
PEAK BRACE	2 1/2" SQ. X 14GA TUBE
KNEE BRACE	2 1/2" SQ. X 14GA TUBE
CROSS BRACE	2 1/2" SQ. X 14GA TUBE
PURLIN	2 1/2" SQ. X 14GA TUBE
GIRT	2 1/2" SQ. X 14GA TUBE
LATERAL BRACE	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
END WALL COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBES STITCH WELDED

CONCRETE SLAB	
ANCHOR 'A'	1/2" X 7" LG. POWER BULL WEDGE ANCHOR (PER ESR 2254)

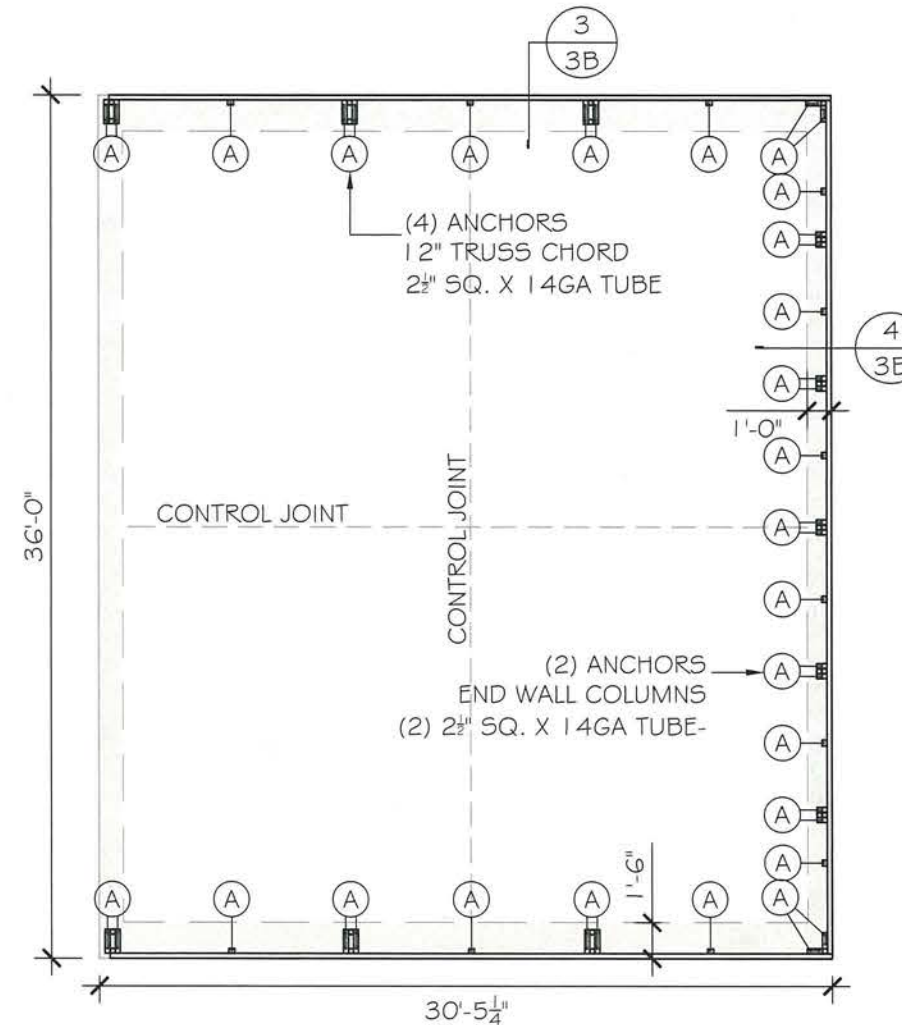
FOUNDATION NOTES:

- MIN. SLAB SIZE SHALL BE 36' X 30'-5 1/4" TO ALLOW A MIN. OF 4" ANCHOR-TO-CONCRETE EDGE DISTANCE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- CONCRETE ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN BELOW:
 - A MINIMUM OF 4 ANCHORS SHALL BE PROVIDED AT EACH SIDE WALL TRUSS POST BASE.
 - A MINIMUM OF 2 ANCHORS SHALL BE PROVIDED AT EACH END WALL POSTS BASE.
- ANCHOR EMBEDMENT REQUIREMENTS:
 - MIN. ANCHOR HOLE DEPTH: 4.500"
 - MIN. ANCHOR CONCRETE EMBED.: 2.854"
 - MIN. EFFECTIVE EMBED.: 2.250"
 - ANCHOR PROJECTION (7"-4.500") 2.500" (ABOVE GRADE)
 - MIN. SPACING BETWEEN ANCHORS: (SEE DETAIL ON SHEET 3B)
 - MIN. ANCHOR EDGE DISTANCE: (SEE DETAIL ON SHEET 3B)
- ALL ANCHORS TO BE A307 EQUIVALENT OR BETTER. ANCHORS TO BE INSTALLED PER MANUFACTURER'S REQ.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



ANCHORAGE DETAIL

SCALE: 1" : 1'



FOUNDATION PLAN

SCALE: 1/8" : 1'


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DRAWN BY:	AF	CHECKED BY:	
DATE:	23-09-2020	SHEET NO.:	3A OF 7

PREPARED FOR:



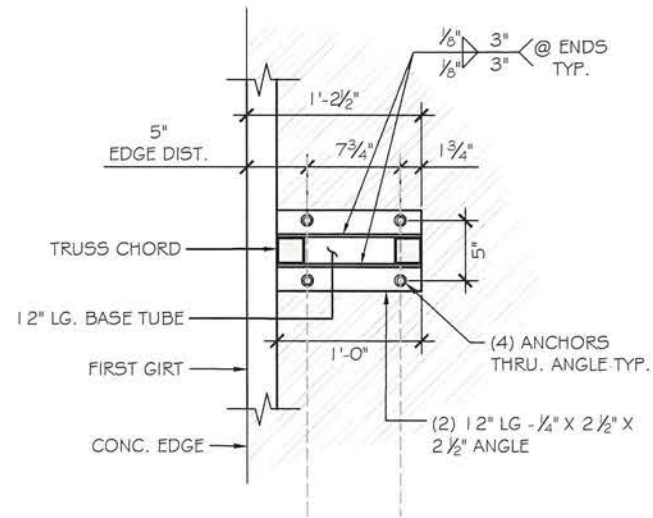
457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

SEAL:

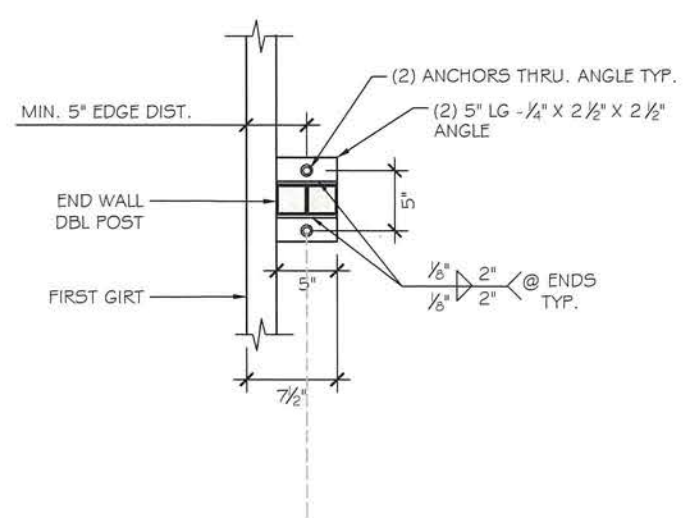


EXPIRES: 09/30/2021

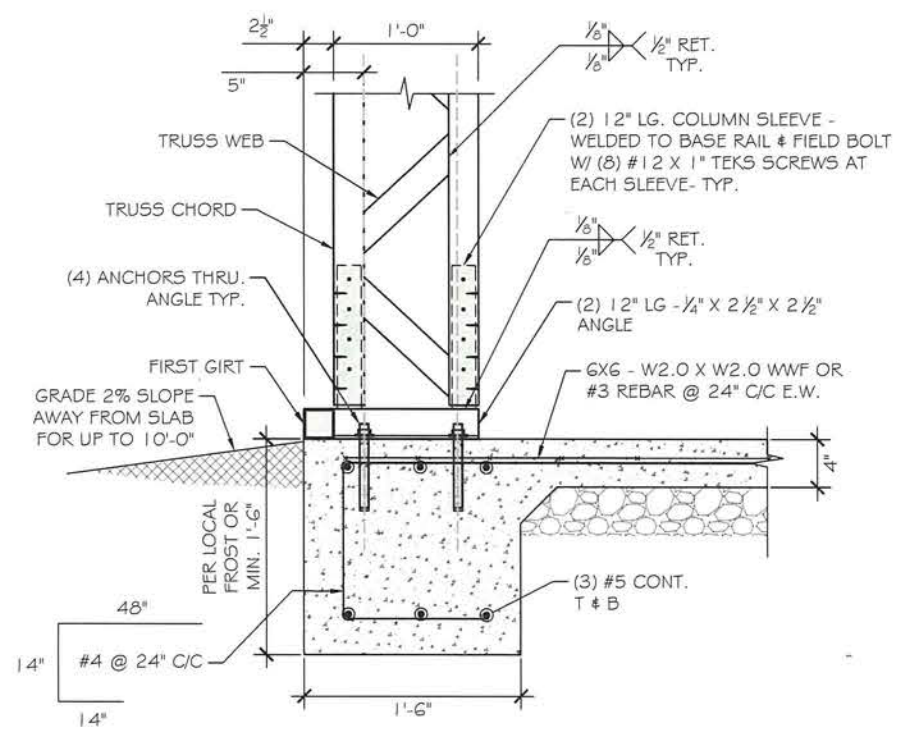
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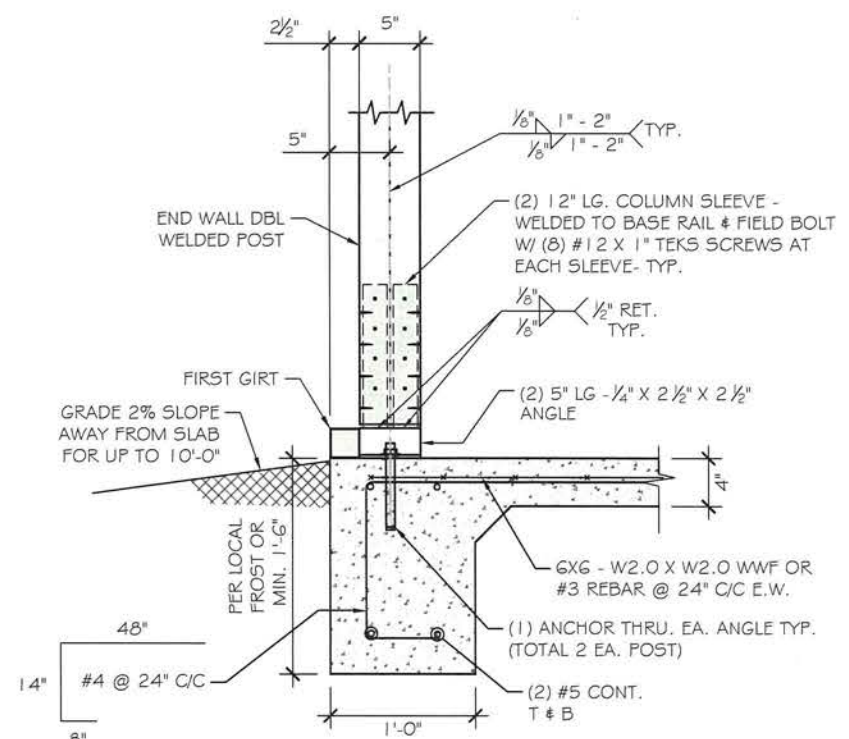
TRUSS BASE DETAIL 1
SCALE: 1" : 1'



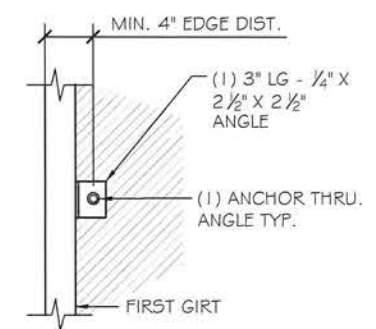
END WALL BASE DETAIL 2
SCALE: 1" : 1'



FOUNDATION @ SIDE WALL 3
SCALE: 1" : 1'



FOUNDATION @ END WALL 4
SCALE: 1" : 1'



ANCHORAGE DETAIL 5
SCALE: 1" : 1'

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DRAWN BY:	AF	CHECKED BY:	
DATE:	23-09-2020	SHEET NO.:	3B OF 7

FOUNDATION DETAILS:
CONCRETE SLAB

PREPARED FOR:

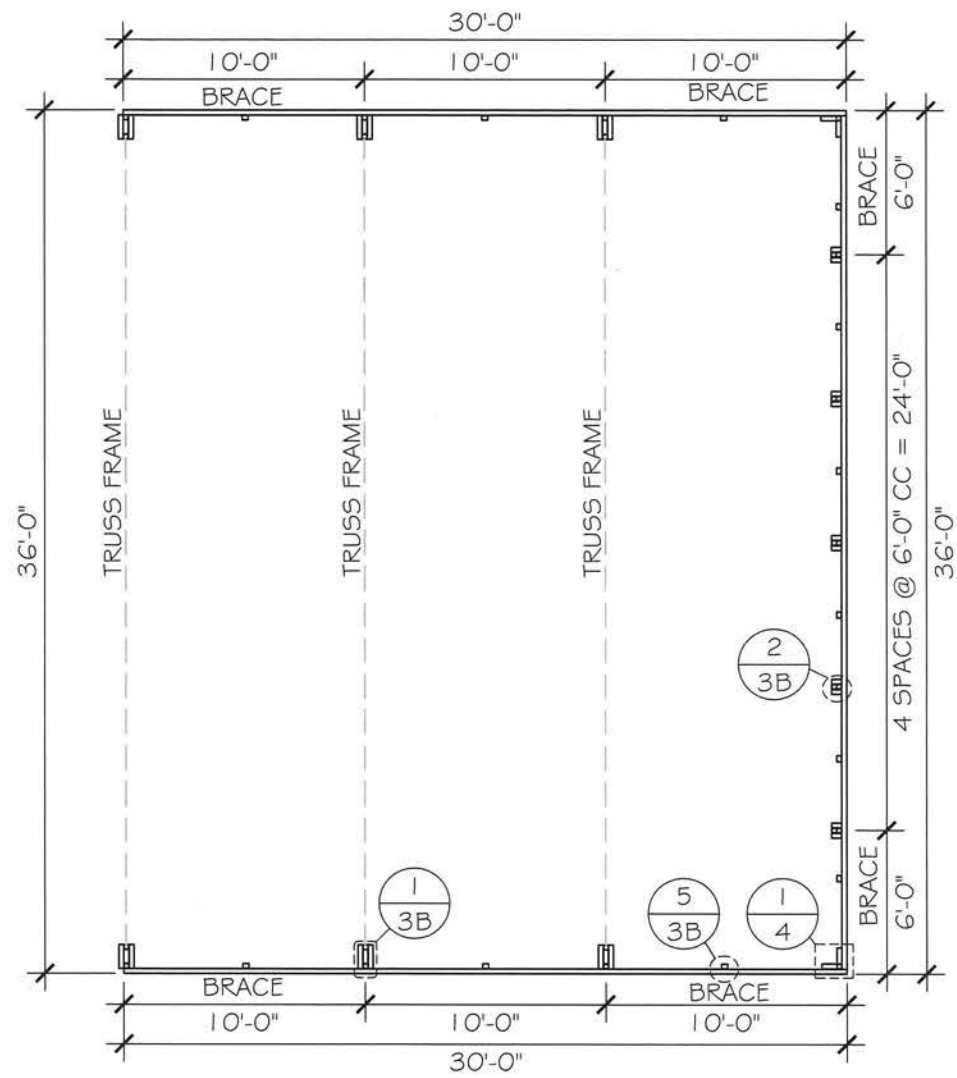
457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

SEAL:

SAADY AMIN
ENGINEER
No. PE089217

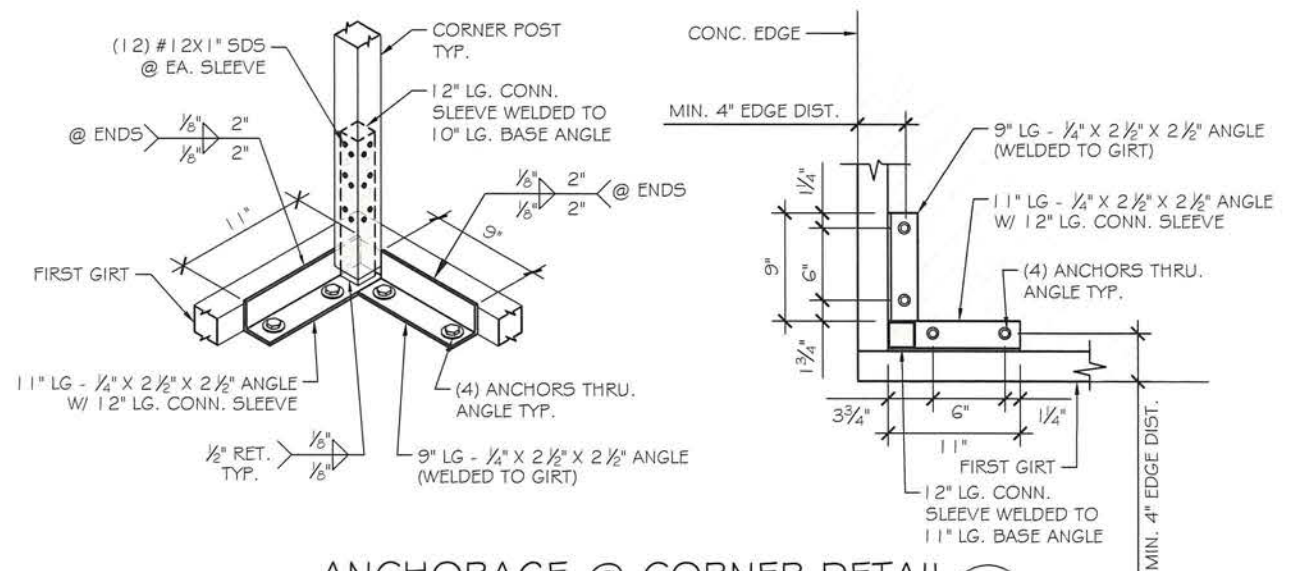
EXPIRES: 09/30/2021

DATE SIGNED: **09/23/2020**



FLOOR PLAN

SCALE: 1/8" = 1'



ANCHORAGE @ CORNER DETAIL

SCALE: 1" = 1'

NOTE: SEE SHEET 3A & 3B FOR ANCHOR TYPE & MEMBER PROPERTIES

OWNER: WOODLAWN FIRE DEPARTMENT
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FLOOR PLAN

DRAWING NO.:	MBD41CA7130	PROJECT NO.:	033-20-2286
DRAWN BY:	AF	CHECKED BY:	
DATE:	23-09-2020	SHEET NO.:	4 OF 7



SEAL:

EXPIRES: 09/30/2021

DATE SIGNED: 09/23/2020

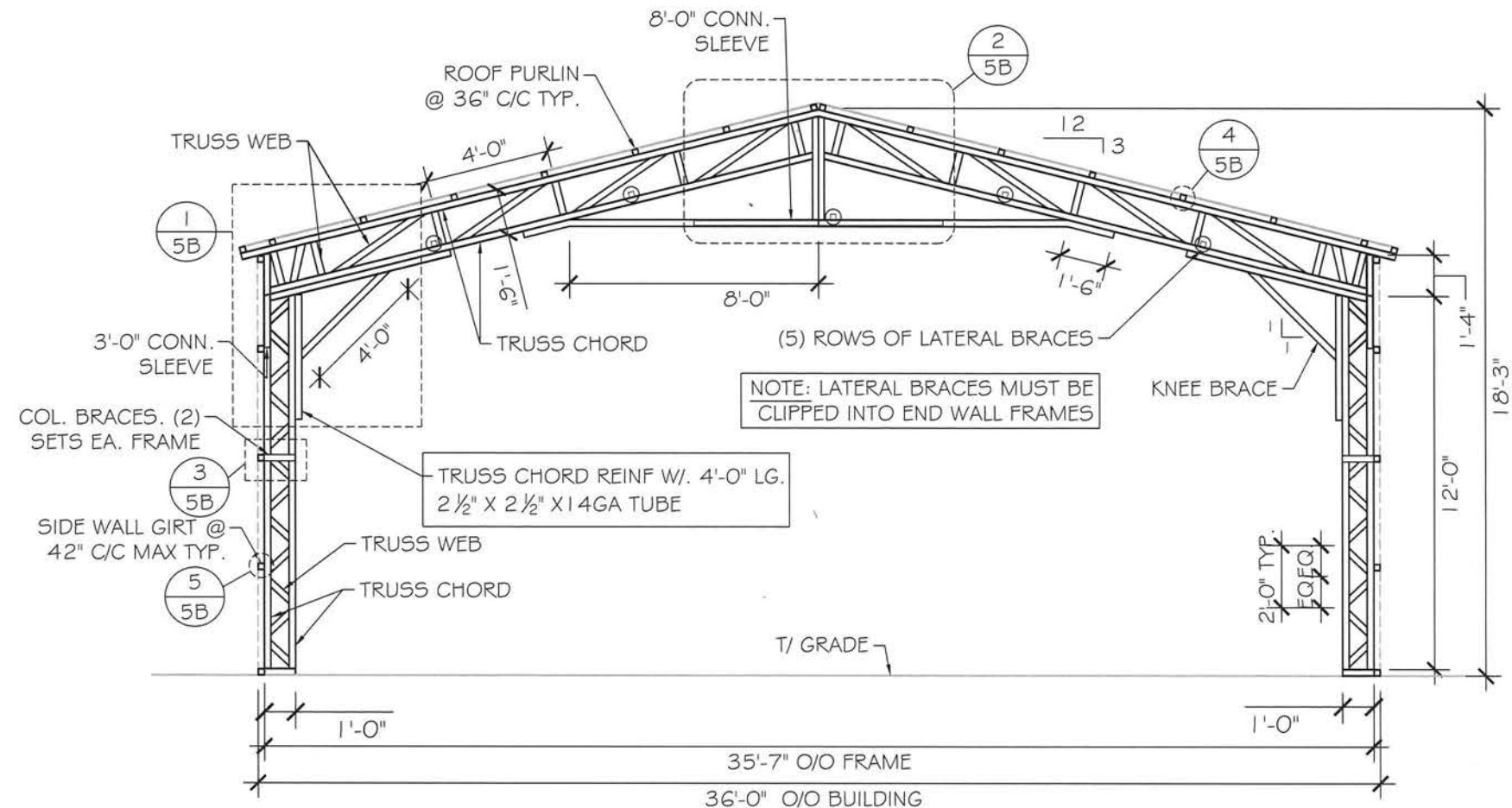
MEMBER PROPERTIES	
TRUSS CHORD	2 1/2" SQ. X 14GA TUBE
TRUSS WEB	2 1/2" SQ. X 14GA TUBE
TRUSS CHORD REINF.	2 1/2" SQ. X 14GA TUBE
CORNER POST / ROOF	2 1/2" SQ. X 14GA TUBE
PEAK BRACE	2 1/2" SQ. X 14GA TUBE
KNEE BRACE	2 1/2" SQ. X 14GA TUBE
CROSS BRACE	2 1/2" SQ. X 14GA TUBE
PURLIN	2 1/2" SQ. X 14GA TUBE
GIRT	2 1/2" SQ. X 14GA TUBE
LATERAL BRACE	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
END WALL COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBES STITCH WELDED

FASTENER TYPE:

- 1/4" x 1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER
- #12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER

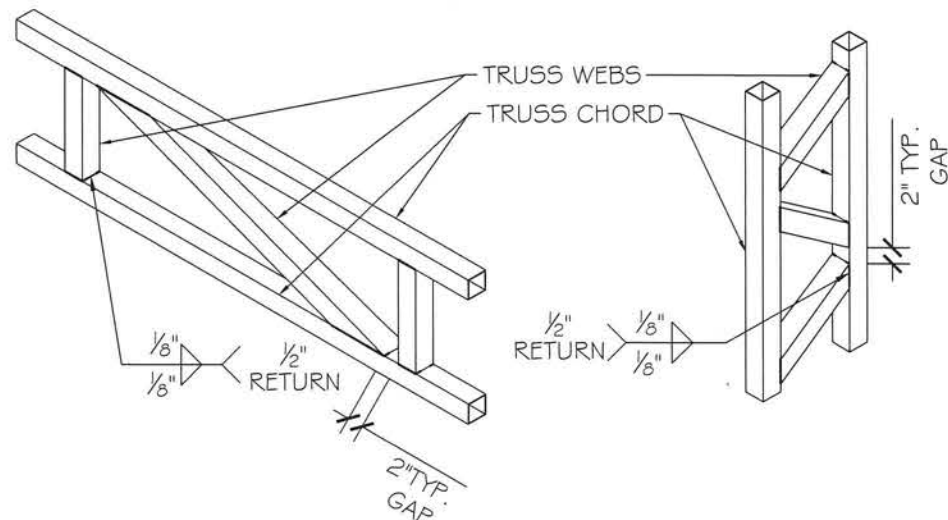
SHEATHING FASTENER SCHEDULE				
LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" CC	MIN. 1	4" CC	9" CC

FASTENER TYPE: #12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER

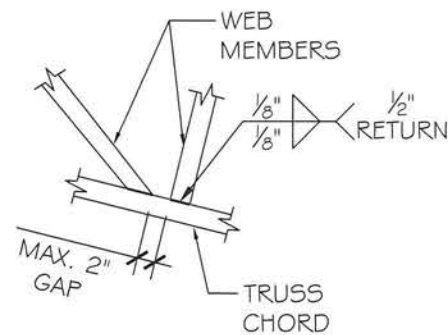


NOTE: LATERAL BRACES MUST BE CLIPPED INTO END WALL FRAMES

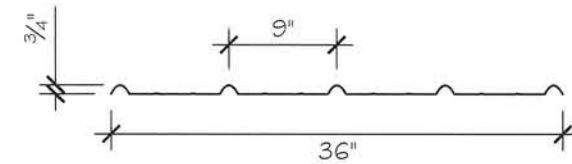
FRAME SECTION
SCALE: 3/16" : 1'



TYP. WELD DETAIL
SCALE: 1/2" : 1'

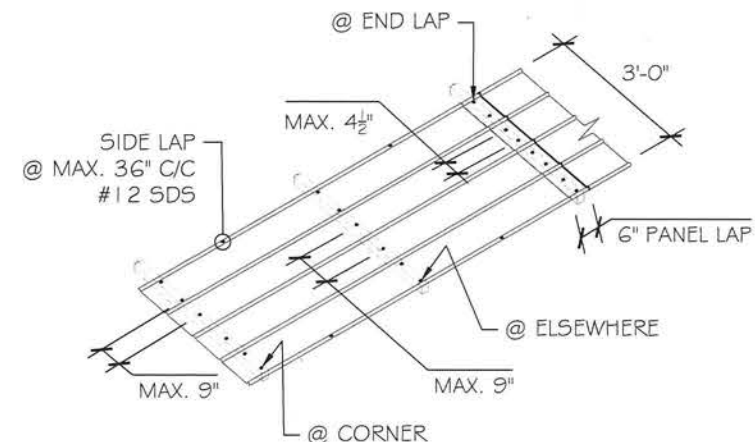


TYP. FRAME DETAIL
SCALE: 1/2" : 1'



29GA. - 3/4" RIB - CORRUGATED SHEET

SCALE: 3/4" : 1'



SHEATHING FASTENER PATTERN
SCALE: 3/16" : 1'

LOCATION: 1651 WHITE HALL AVE
ALLEN TOWN, PA 18104

OWNER: WOODLAWN FIRE DEPARTMENT

FRAME SECTION & DETAILS

PROJECT NO.: 033-20-2286

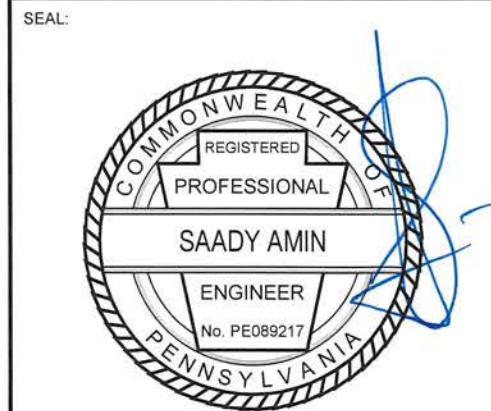
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DRAWING NO.: MBD41CA7130

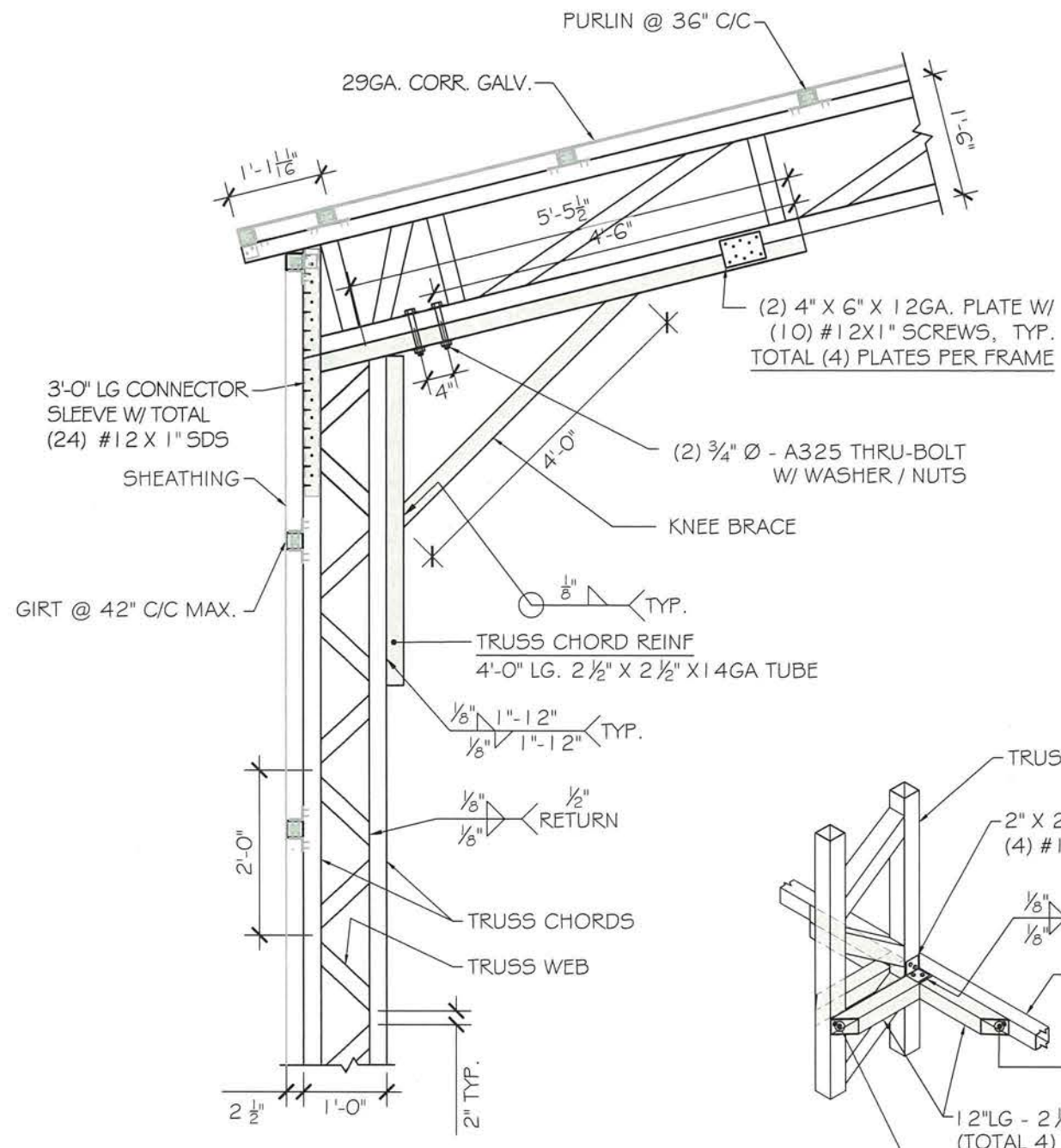
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SHEET NO.: 5A OF 7

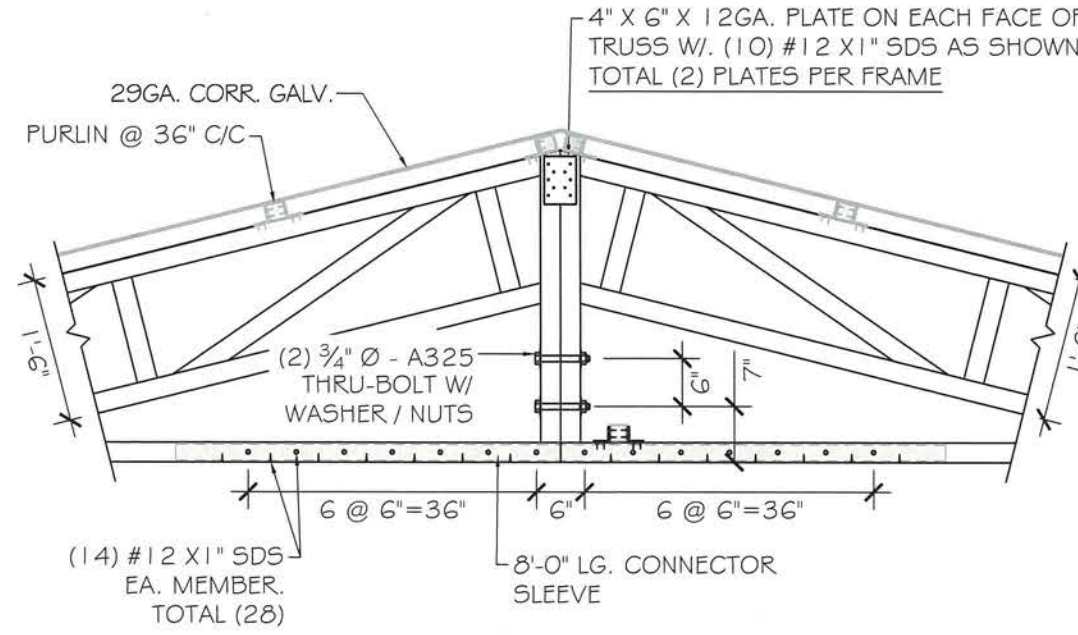
DATE: 23-09-2020



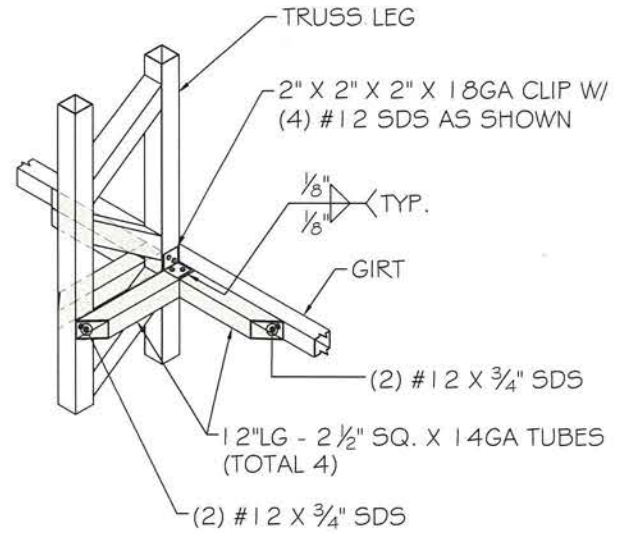
DATE SIGNED: 09/23/2020



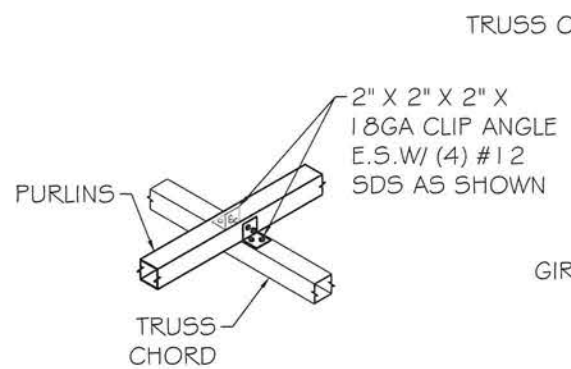
FRAME DETAIL 1
SCALE: 1/2" : 1"



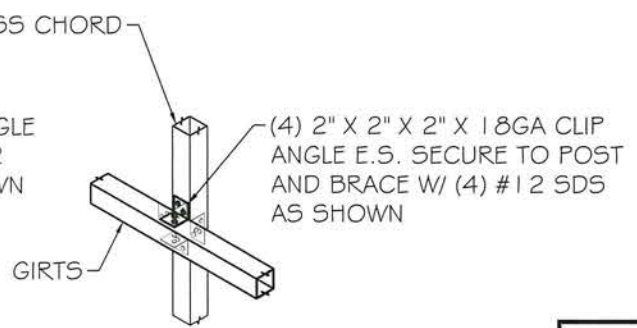
PEAK DETAIL 2
SCALE: 1/2" : 1"



COL. BRACE DETAIL 3
SCALE: 1/2" : 1"



PURLIN DETAIL 4
SCALE: 1/2" : 1"



GIRT DETAIL 5
SCALE: 1/2" : 1"

- FASTENER TYPE:
1. 1/4" x 1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER
 2. #12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER

LOCATION: 1651 WHITE HALL AVE
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OWNER: WOODLAWN FIRE DEPARTMENT

FRAME SECTION DETAILS

PROJECT NO.: 033-20-2286

DRAWING NO.: MBD41CA7130

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DATE: 23-09-2020

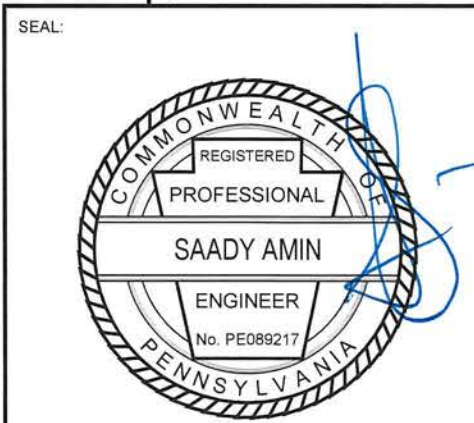
CHECKED BY:

DATE: 23-09-2020

SHEET NO.: 5B OF 7

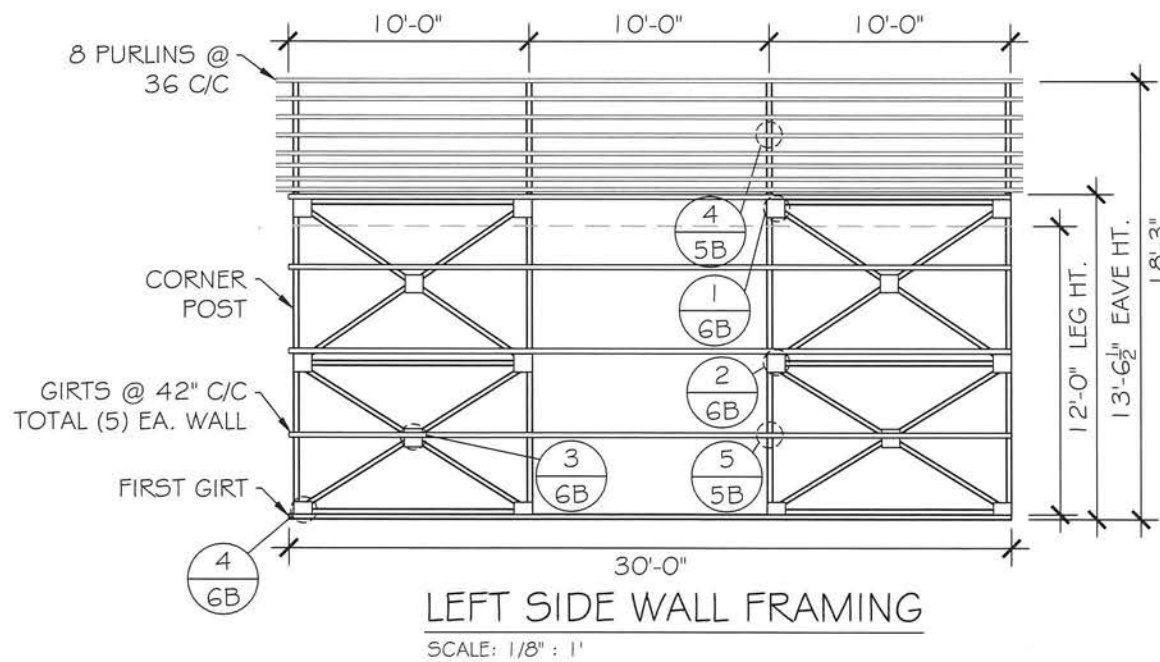
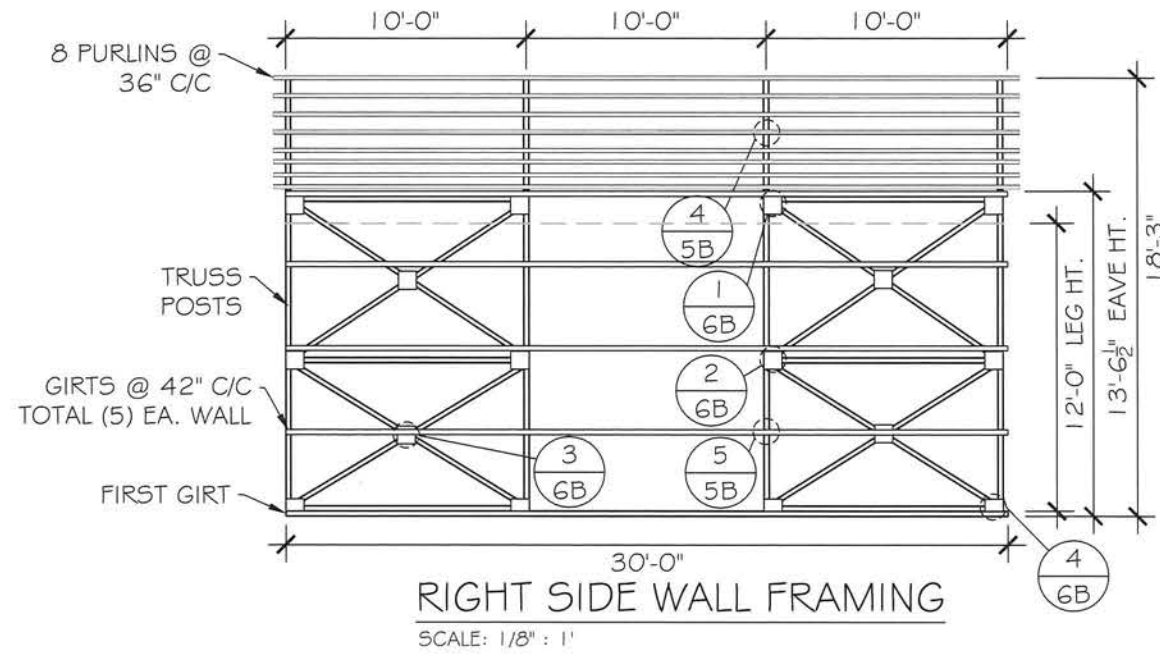


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MEMBER PROPERTIES	
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END WALL COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBES STITCH WELDED

LOCATION: 1651 WHITE HALL AVE
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SIDE WALL FRAMING

PROJECT NO.: 033-20-2286

CHECKED BY: AF

SHEET NO.: 6A OF 7

DRAWING NO.: MBD41CA7130

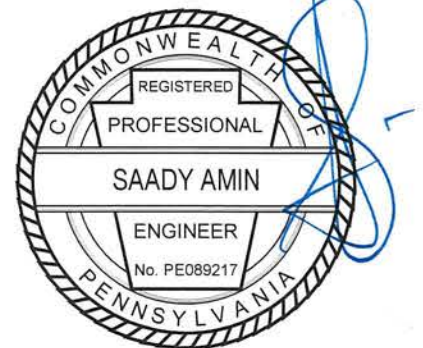
DRAWN BY: AF

DATE: 23-09-2020

PREPARED FOR: AMERICAN STEEL CARPORTS



SEAL:



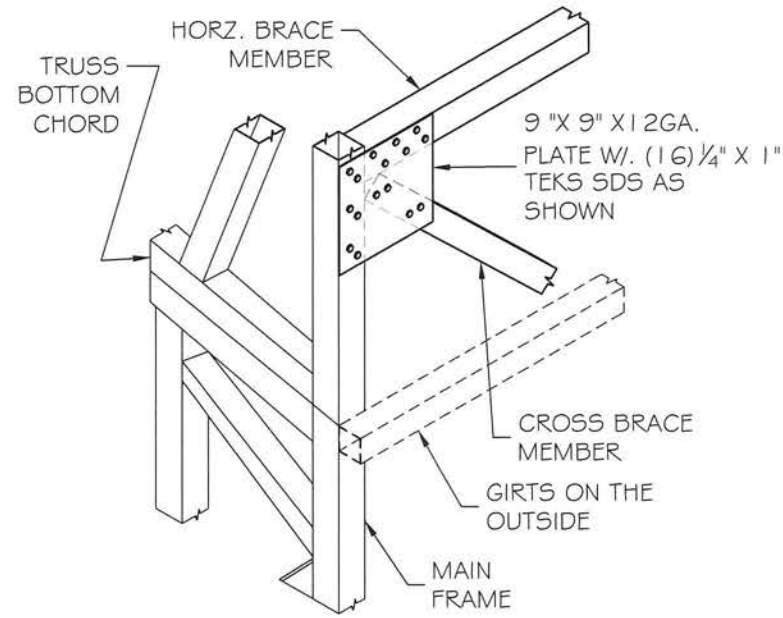
EXPIRES: 09/30/2021

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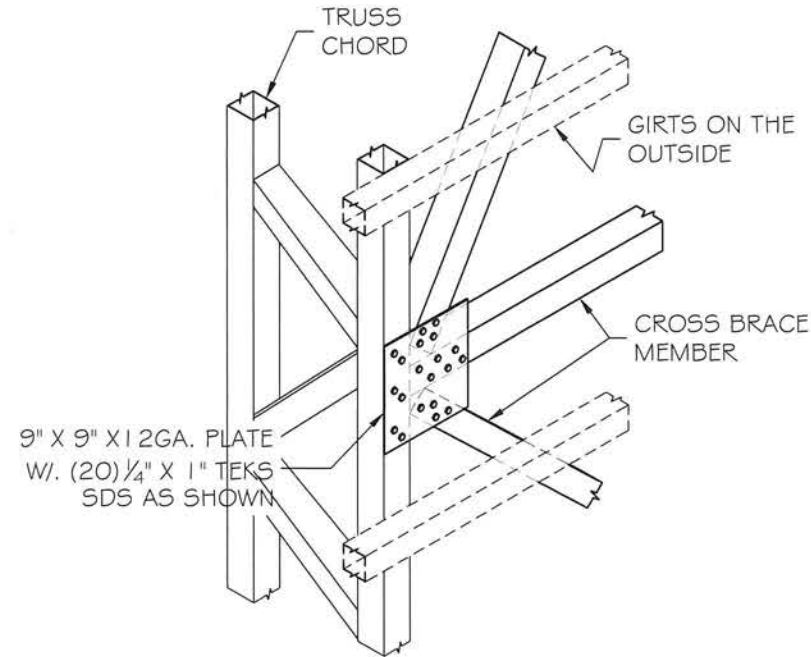
09/23/2020

FASTENER TYPE:

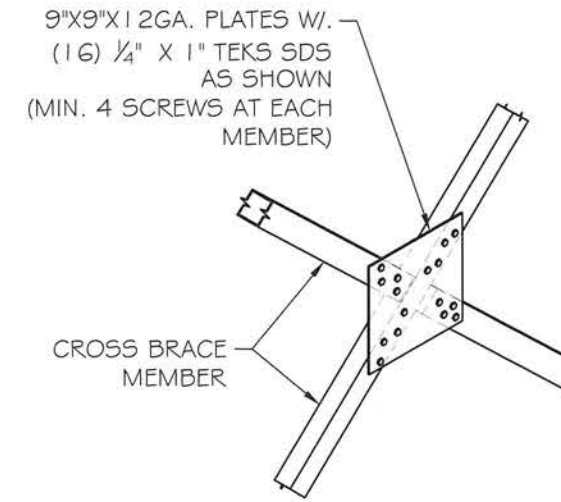
1. 1/4" x 1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER
2. #12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER



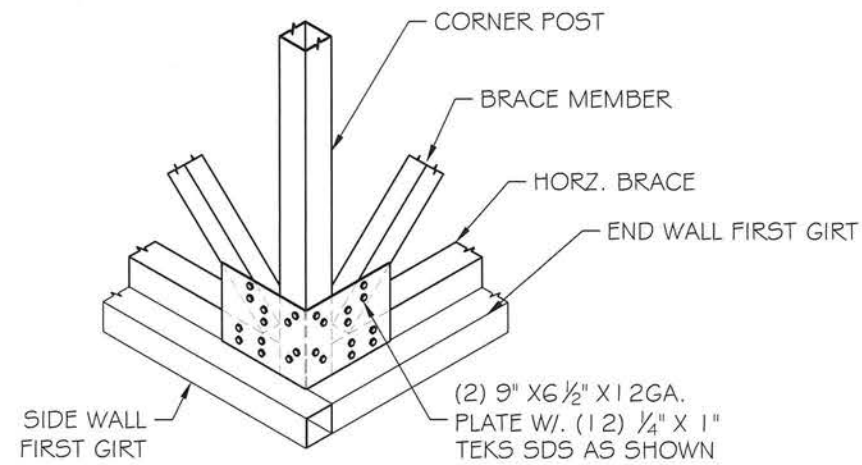
BRACE DETAIL 1
SCALE: 3/4" : 1'



BRACE DETAIL 2
SCALE: 3/4" : 1'



BRACE DETAIL 3
SCALE: 3/4" : 1'



BRACE DETAIL 4
SCALE: 3/4" : 1'

LOCATION:
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ALLEN TOWN, PA 18104

OWNER:
WOODLAWN FIRE
DEPARTMENT

SIDE WALL FRAMING

PROJECT NO.: 033-20-2286

DRAWING NO.: MBD41CA7130

CHECKED BY:

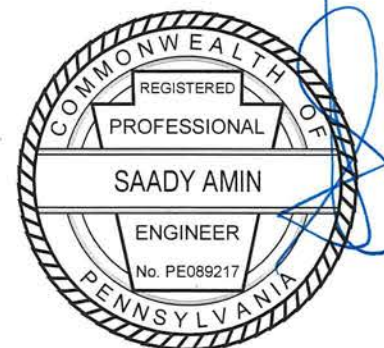
AF

SHEET NO.: 6B OF 7

DATE: 23-09-2020



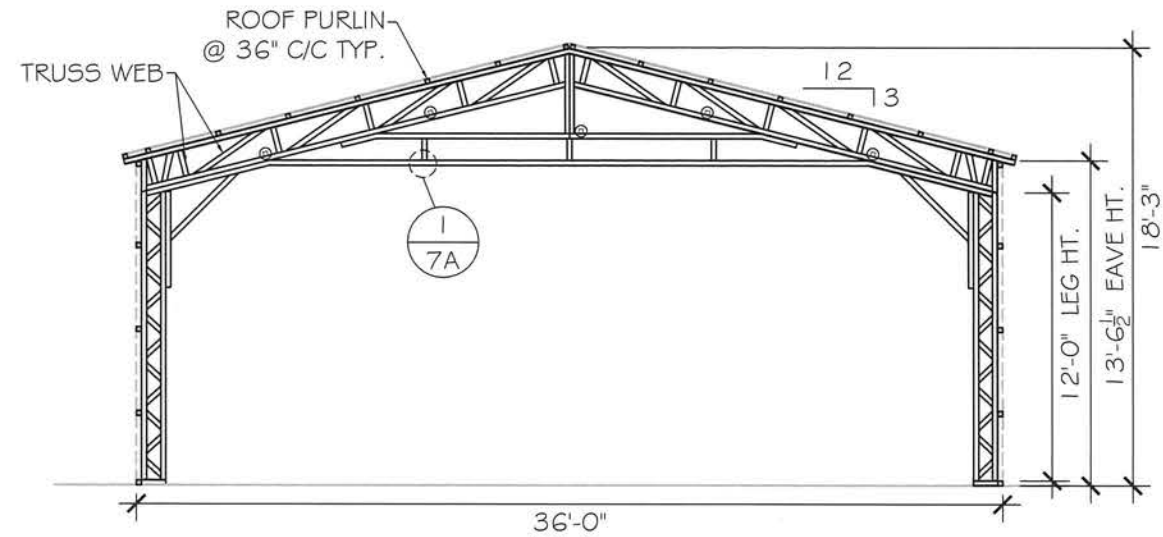
SEAL:



EXPIRES: 09/30/2021

DATE SIGNED:

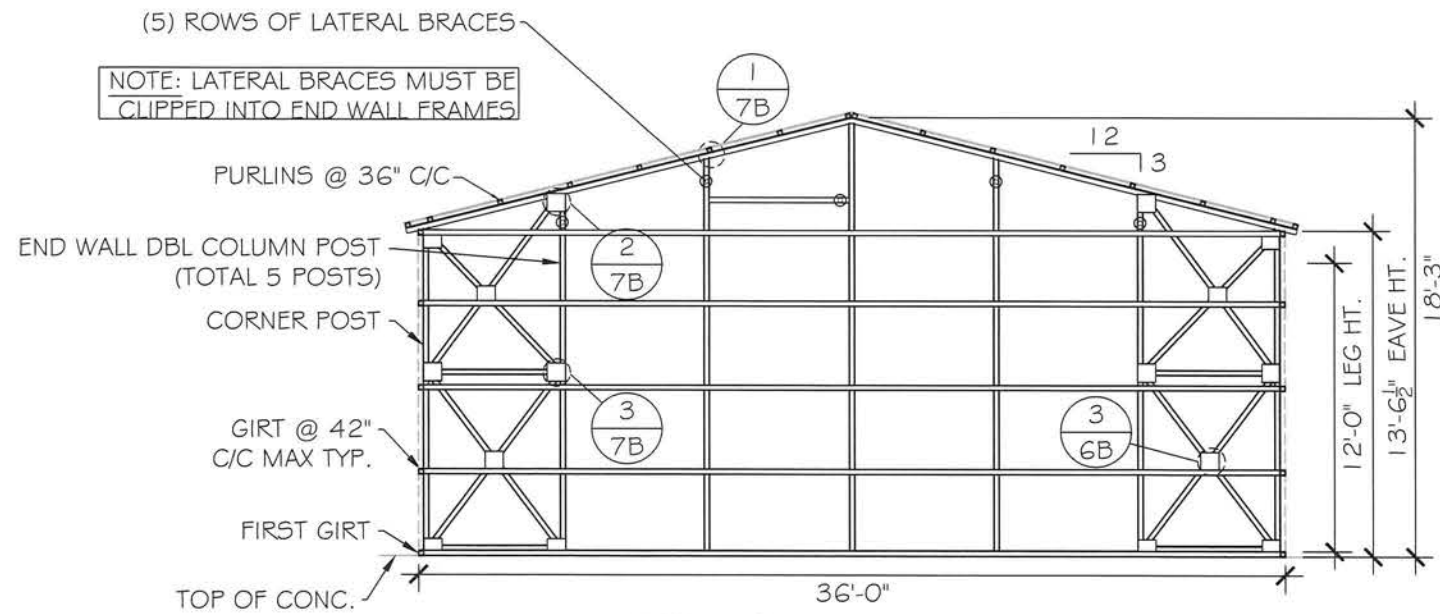
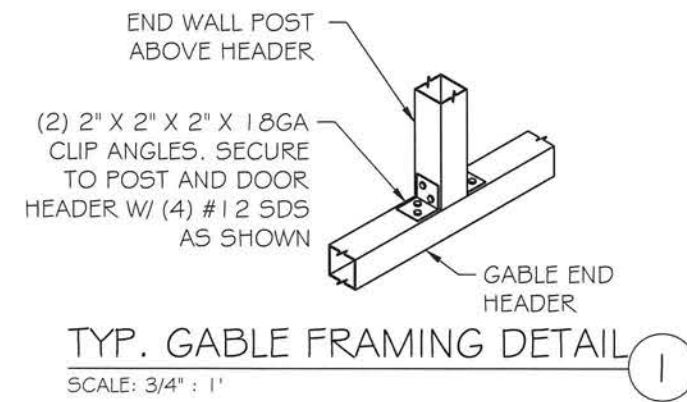
09/23/2020



FRONT END WALL FRAMING

SCALE: 1/8" : 1'

MEMBER PROPERTIES	
TRUSS CHORD	2 1/2" SQ. X 14GA TUBE
TRUSS WEB	2 1/2" SQ. X 14GA TUBE
TRUSS CHORD REINF.	2 1/2" SQ. X 14GA TUBE
CORNER POST / ROOF	2 1/2" SQ. X 14GA TUBE
PEAK BRACE	2 1/2" SQ. X 14GA TUBE
KNEE BRACE	2 1/2" SQ. X 14GA TUBE
CROSS BRACE	2 1/2" SQ. X 14GA TUBE
PURLIN	2 1/2" SQ. X 14GA TUBE
GIRT	2 1/2" SQ. X 14GA TUBE
LATERAL BRACE	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
END WALL COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBES STITCH WELDED



REAR END WALL FRAMING

SCALE: 1/8" : 1'

OWNER: WOODLAWN FIRE DEPARTMENT	LOCATION:	1651 WHITE HALL AVE ALLEN TOWN, PA 18104	
	SHEET TITLE:	END WALL FRAMING & DETAILS	
DRAWING NO.:	MBD41CA7130	PROJECT NO.:	033-20-2286
DRAWN BY:	AF	CHECKED BY:	
DATE:	23-09-2020	SHEET NO.:	7A OF 7

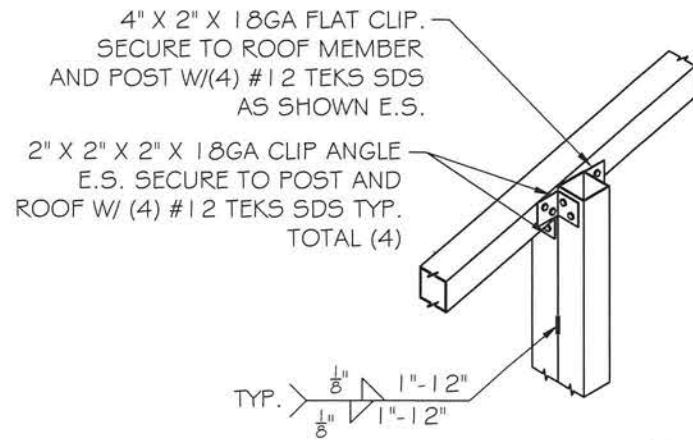
PREPARED FOR:

457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

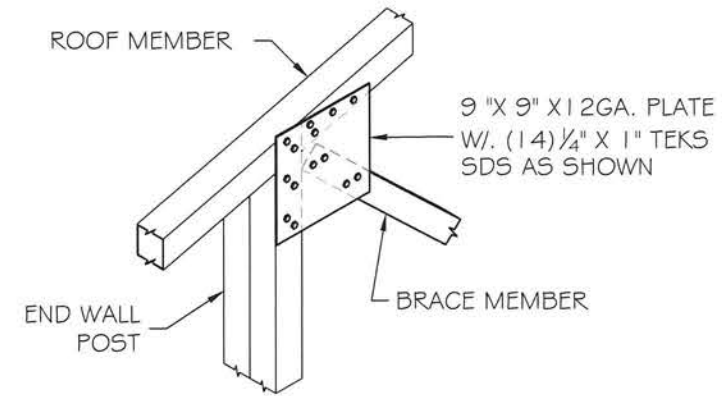
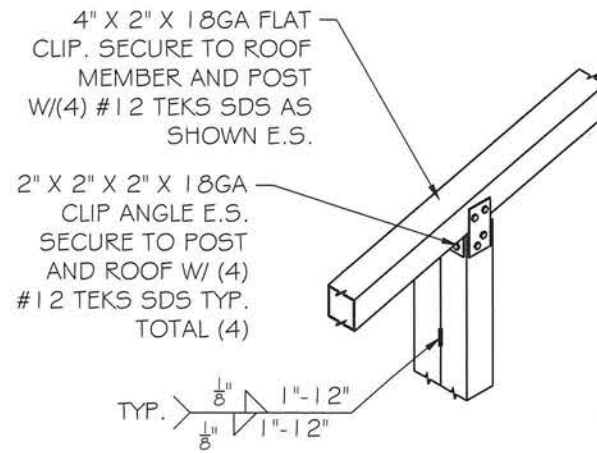
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EXPIRES: 09/30/2021

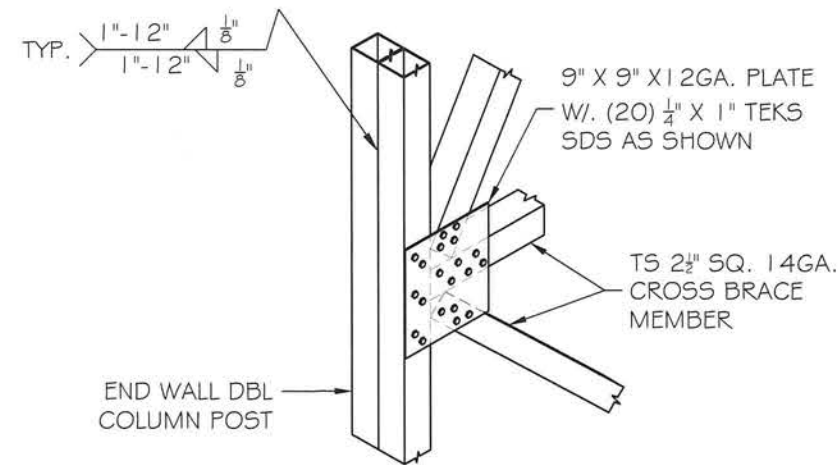
DATE SIGNED: **09/23/2020**



ROOF MEMBER DETAIL 1
SCALE: 3/4" : 1'



BRACE DETAIL 2
SCALE: 3/4" : 1'



BRACE DETAIL 3
SCALE: 3/4" : 1'

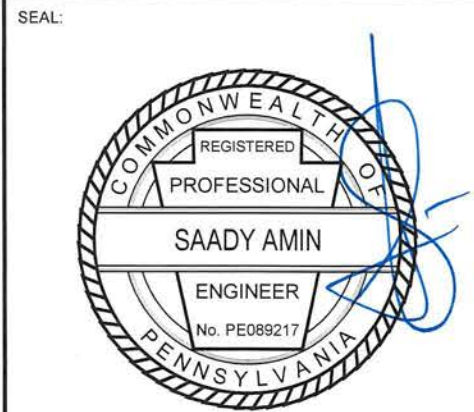
OWNER: WOODLAWN FIRE DEPARTMENT
LOCATION: 1651 WHITE HALL AVE ALLEN TOWN, PA 18104

SHEET TITLE: END WALL FRAMING DETAILS

DRAWING NO.: MBD41CA7130 PROJECT NO.: 033-20-2286

DRAWN BY: AF CHECKED BY:

DATE: 23-09-2020 SHEET NO.: 7B OF 7



DATE SIGNED: 09/23/2020