



REGULAR / A-FRAME
24'-0" WIDE
CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2012, OSHA, AISC 360, AISI 100, ASCE 7-10, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA. IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

PREVAILING CODE:		AFPC 2012 (IBC 2012)
USE GROUP:		U (CARPORTS, BARNS)
RISK CATEGORY:		I
1.	DEAD LOAD (D)	D = 4 PSF
2.	ROOF LIVE/SNOW LOAD (Lr)	Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4)
3.	SNOW LOAD (S)	
	GROUND SNOW LOAD	Pg = 20 - 90 PSF
	IMPORTANCE FACTOR	Is = 0.8
	THERMAL FACTOR	Ct = 1.2
	EXPOSURE FACTOR	Ce = 1.0
	ROOF SLOPE FACTOR	Cs = 1.0
4.	WIND LOAD (W)	
	BASIC WIND SPEED	V_{ULT} = 105 - 180 MPH
	EXPOSURE	C
5.	SEISMIC LOAD (E)	
	DESIGN CATEGORY	D
	IMPORTANCE FACTOR	Ie = 1.00

LOAD COMBINATIONS:

1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

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CUSTOMER INFORMATION

OWNER:
ADDRESS:

DESIGN LOADS

GROUND SNOW:
ROOF LIVE LOAD:
BASIC WIND SPEED:

BUILDING INFORMATION

WIDTH:
LENGTH:
HEIGHT:

FRAME TYPE: ☐ A-FRAME ☐ REGULAR

ENCLOSURE TYPE: ☐ FULL ☐ PARTIAL ☐ OPEN

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS EXPIRATION: **01-18-2024**

CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC
457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: COVER SHEET
SHEET NO.: 1 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: **12-31-2024**
DATE SIGNED: **01-18-2023**

TABLE 2.1: MEMBER PROPERTIES

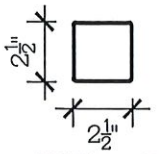
NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE	1
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" 14GA CHANNEL	4
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9A	OPT. END WALL GIRT	2.5" X 1.5" 14GA CHANNEL	1
10	SHEATHING	29 GA CORRUGATED SHEET	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25" X 6" LG. 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	ALL FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	

TABLE 2.2: SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4½" C/C	9" C/C

FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

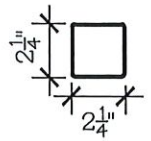
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.



THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE (1)

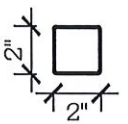
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THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE (2)

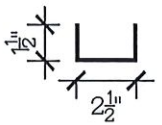
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THICKNESS = 14GA

2" X 2" 14GA TUBE (3)

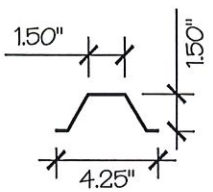
SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL (4)

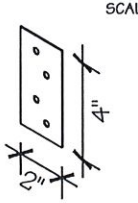
SCALE: NTS



THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA HAT CHANNEL (5)

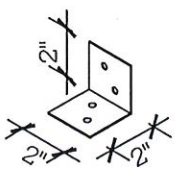
SCALE: NTS



THICKNESS = 14GA

STRAIGHT BRACKET (6)

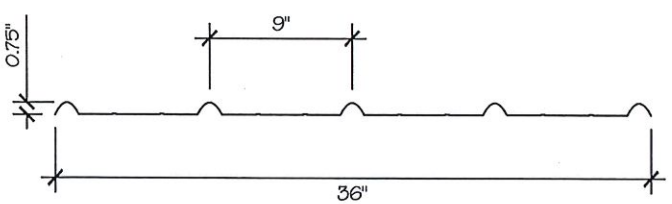
SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET (7)

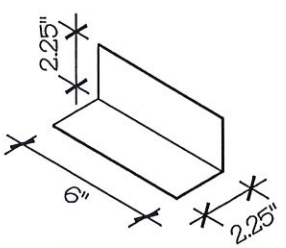
SCALE: NTS



THICKNESS = 29GA

29 GA CORRUGATED SHEATHING (8)

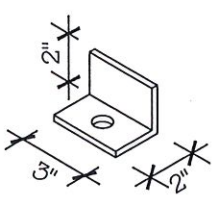
SCALE: NTS



THICKNESS = 14GA

DB BRACKET (9)

SCALE: NTS



THICKNESS = 3/16"

BASE ANGLE (10)

SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

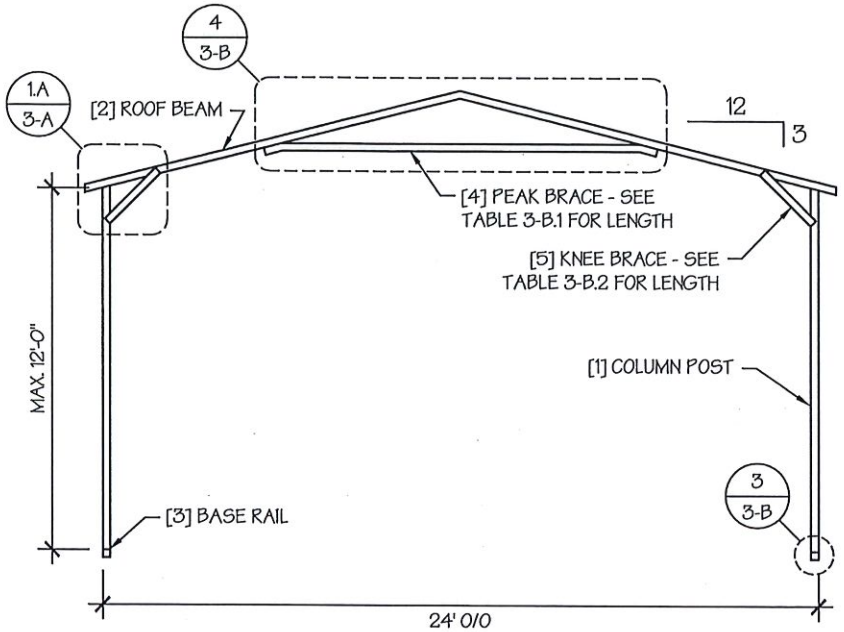
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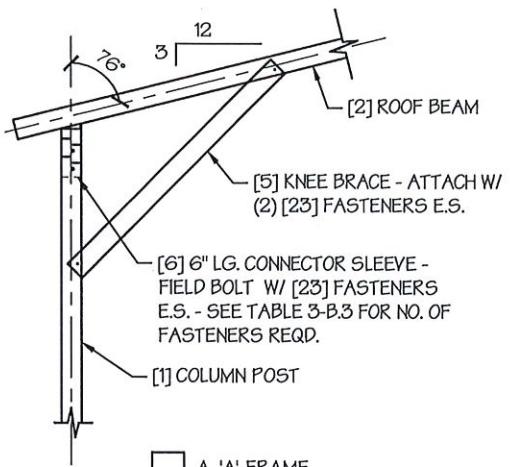
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

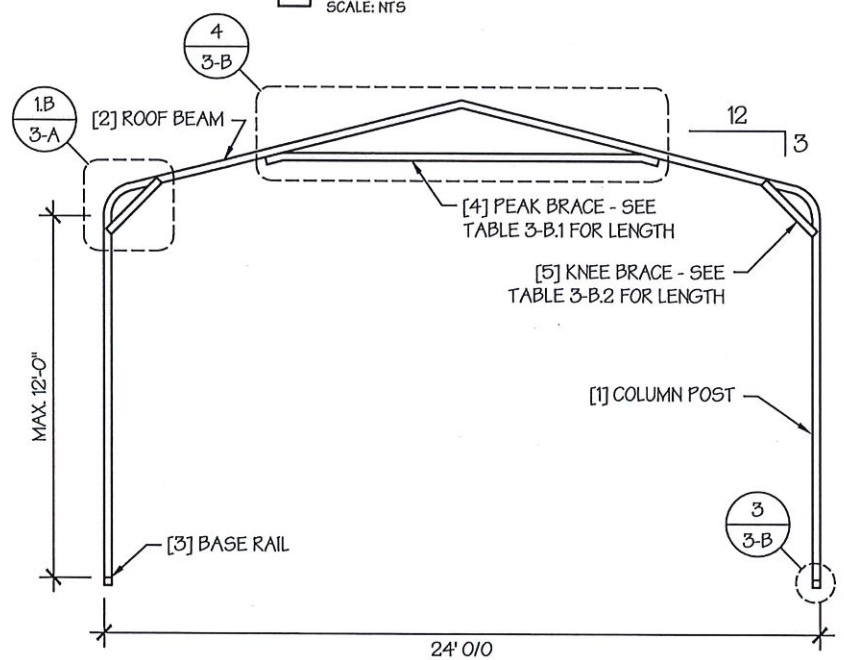
DATE SIGNED: 01-18-2023



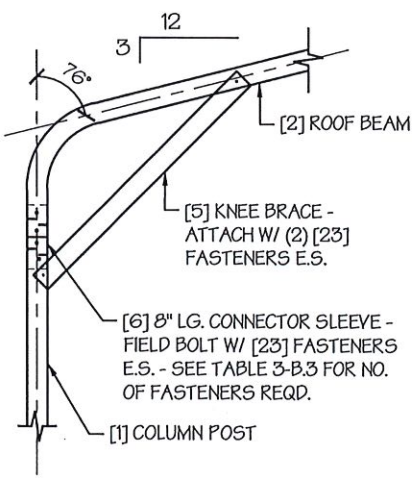
TYP. A-FRAME SECTION
SCALE: NTS



A. 'A'-FRAME



TYP. REGULAR FRAME SECTION
SCALE: NTS



B. REGULAR-FRAME

EAVE DETAIL 1
SCALE: NTS

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LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:
FRAME SECTIONS & DETAILS
SHEET NO.: 3-A / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

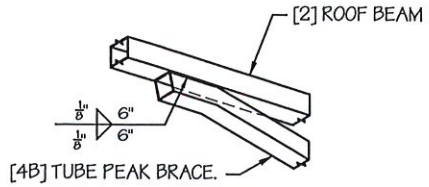
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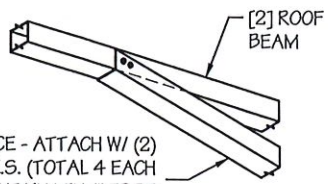
SEAL:

STATE OF ARKANSAS
★ ★ ★
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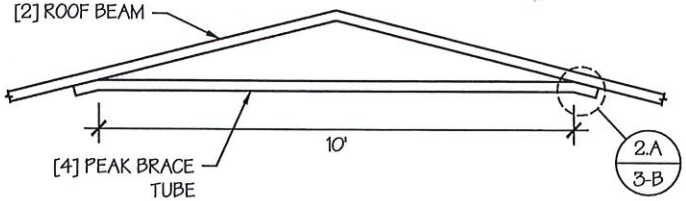


A. PEAK BRACE TUBE

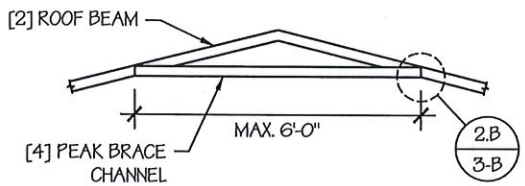


B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS 2
SCALE: NTS

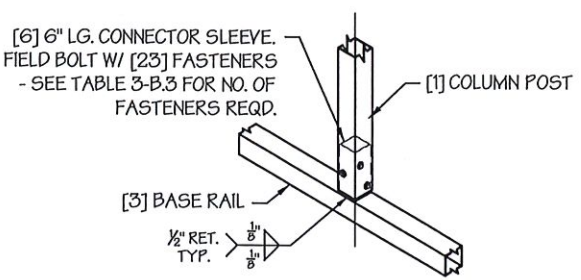


☐ A. WELDED PEAK BRACE



☐ B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS 4
SCALE: NTS



BASE DETAIL 3
SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	WIND SPEED	
	☐105 TO 130	☐140 TO 180
☐ 30 / 20	6'	10'
☐ 35 / 25 TO 90 / 61	10'	10'

TABLE 3-B.2: KNEE BRACE SCHEDULE

EAVE HEIGHT	KNEE BRACE LENGTH
☐UP TO 8'	24"
☐ 9' TO 12'	36"

TABLE 3-B.3 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
☐ 105 TO 125	4
☐ 130 TO 155	6
☐ 160 TO 180	8

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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SHEET TITLE:

FRAME DETAILS

SHEET NO.: 3-B / 11
DRAWN BY: A.W. DATE: 1/22/21
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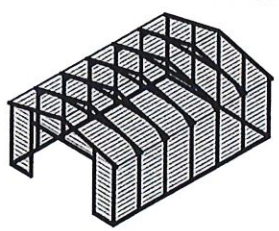
TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ ENCLOSED BUILDINGS — WIND SPEED (MPH)							■ OPEN BUILDINGS — WIND SPEED (MPH)						
		☐105	☐115	☐130	☐140	☐155	☐165	☐180	☐105	☐115	☐130	☐140	☐155	☐165	☐180
■ EAVE HEIGHT = 10'-0" TO 12'-0"	☐30 / 20	60	60	54/60	54	42	42	36	48	48	48	42	36	30	24
	☐40 / 27	48/60	48/60	42/60	42/54	42	42	36	42	42	42	42	36	30	24
	☐50 / 34	40/48	40/48	40/48	40/48	40/42	40/42	36	30	30	30	30	30	30	24
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	24
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	18	18	18	18	18
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = 7'-0" TO 9'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	54	54	48/54	42/54	36/48	36	30
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	42	42	42	42	36/42	36	30
	☐50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	36	36	36	36	36	36	30
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = UP TO 6'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/42	36
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	48	48	42/48	42/48	36/48	36/42	36
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	☐60 / 41	36	36	36	36	36	36	36	36	36	36	36	36	36	30
	☐70 / 47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---

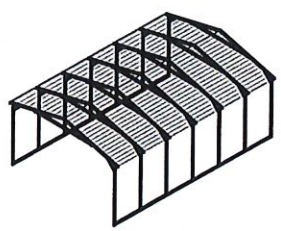
NOTES:
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION:

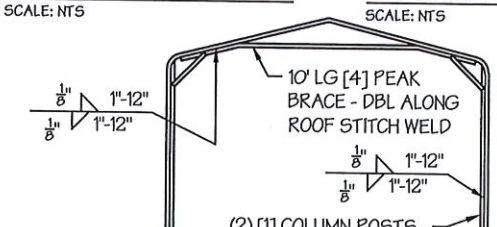
1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
4. PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
5. 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
6. FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.



TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS



TYP. OPEN END WALL ON 3 SIDE ENCLOSED BUILDING
SCALE: NTS

GENERAL NOTES:

1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).
3. ALL BUILDINGS WITH AN OPEN END WALL MUST HAVE A 10'-0" TUBE PEAK BRACE.

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6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES
SHEET NO.: 4 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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No. 14606
OMAR ABU-YASEIN

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TABLE 5.1: PURLIN SPACING SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ 14GA. HAT CHANNEL PURLIN						
		WIND SPEED (MPH)						
		□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
FRAME SPACING: ■ 5'-0"	□ 30 / 20	54	48	42	36	30	24	24
	□ 40 / 27	42	42	42	36	30	24	24
	□ 50 / 34	40	40	40	36	30	24	24
	□ 60 / 41	36	36	36	36	30	24	24
	□ 70 / 47	32	32	32	32	30	24	24
	□ 80 / 54	30	30	30	30	30	24	24
	□ 90 / 61	24	24	24	24	24	24	24
FRAME SPACING: ■ 4'-6"	□ 30 / 20	54	48	42	42	36	30	30
	□ 40 / 27	42	42	42	42	36	30	30
	□ 50 / 34	40	40	40	40	36	30	30
	□ 60 / 41	36	36	36	36	36	30	30
	□ 70 / 47	32	32	32	32	32	30	30
	□ 80 / 54	32	32	32	32	32	30	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 4'-0"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-6"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-0" OR LOWER	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30

NOTES:
1. PURLIN SPACING UNITS ARE IN INCHES.
2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

IRREGULAR BUILDING NOTES:
1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
2. FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
3. SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
4. IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)						
	105	115	130	140	155	165	180
□ 5'-0"	60	48	36	30	24	24	18
□ 4'-6"	60	60	48	42	36	30	24
□ 4'-0"	60	60	54	54	42	36	30
□ 3'-6"	60	60	54	54	48	42	42
□ 2'-0" TO 3'-0"	60	60	54	54	48	42	42

NOTES:
1. GIRT SPACING UNITS ARE IN INCHES.
2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA
3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

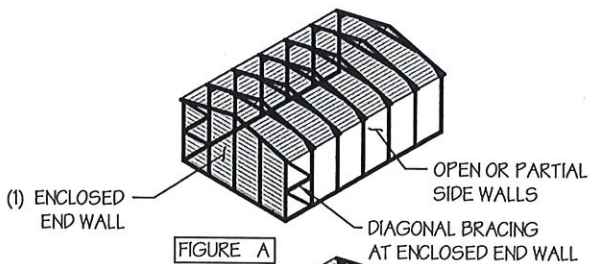


FIGURE A

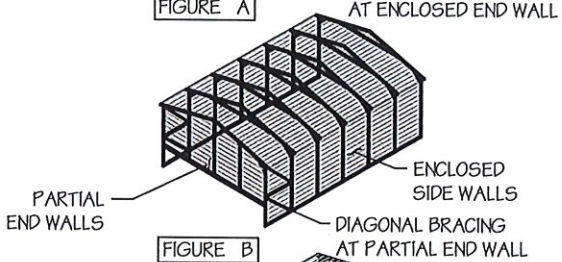


FIGURE B

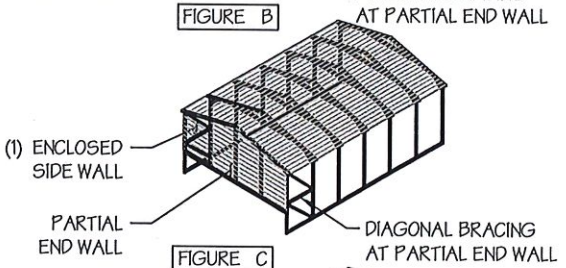


FIGURE C

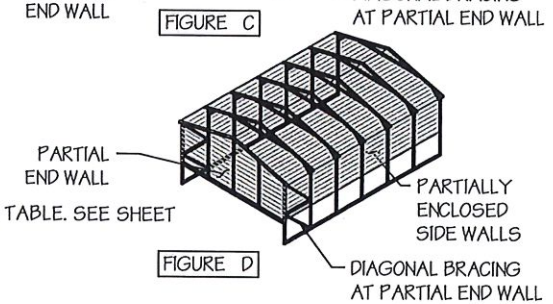


FIGURE D

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www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: PURLIN & GIRT SPACING SCHEDULES
SHEET NO.: 5 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

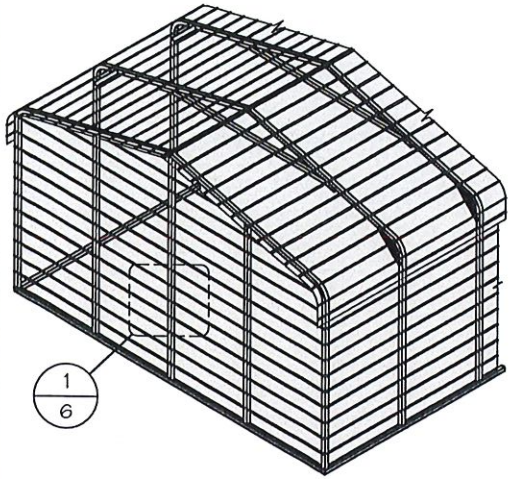
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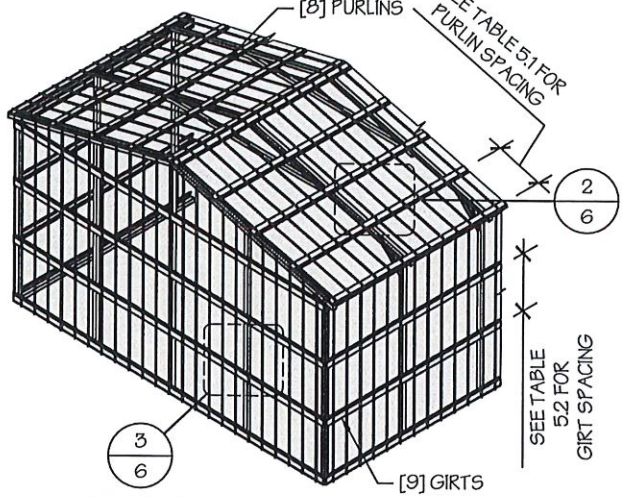
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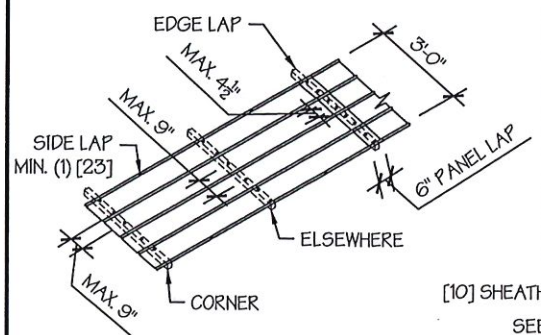
☐ TYP. HORIZONTAL SHEATHING
SCALE: NTS



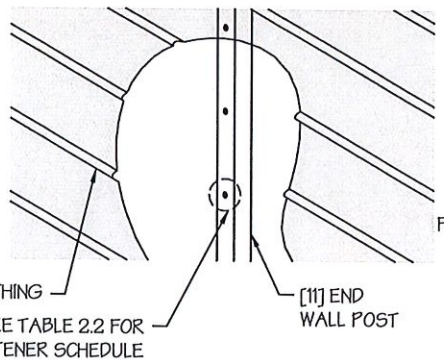
☐ TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

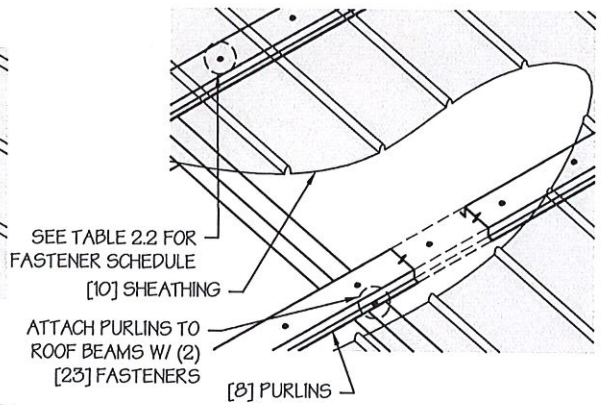
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
5. VERTICAL SHEATHING RECOMMENDED FOR BUILDINGS 30' OR LONGER



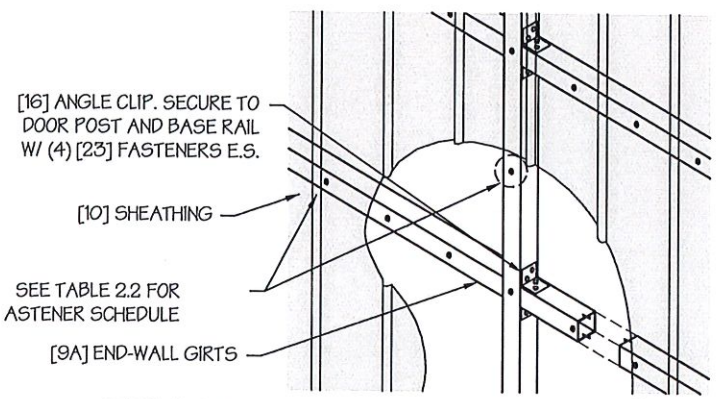
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



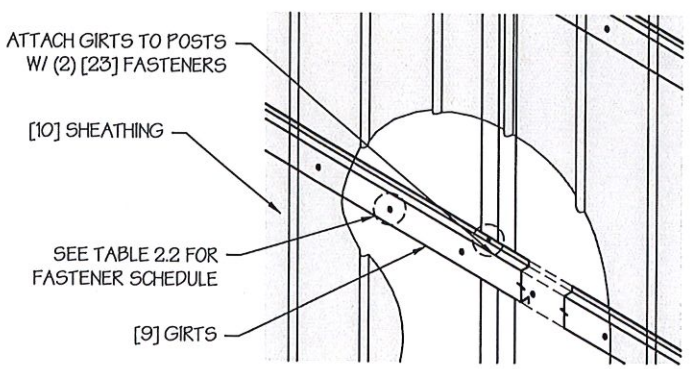
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS



☐ WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS



☐ WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:
SHEATHING OPTIONS & DETAILS
SHEET NO.: 6 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

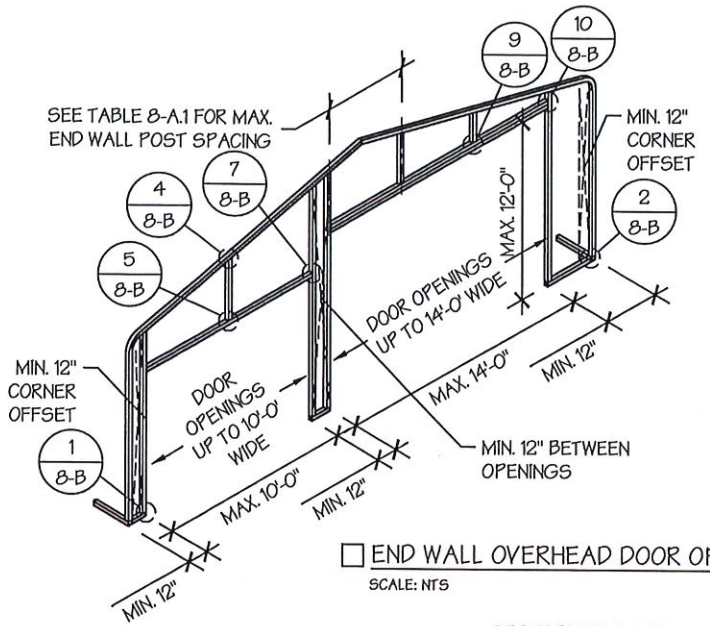
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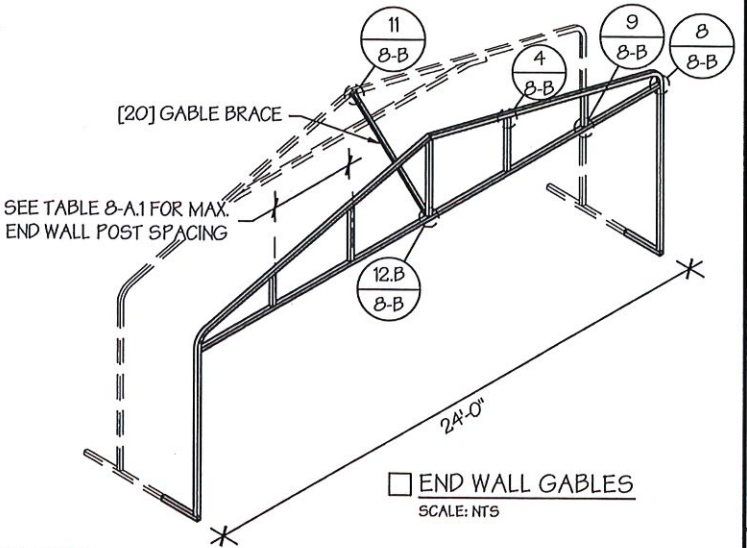
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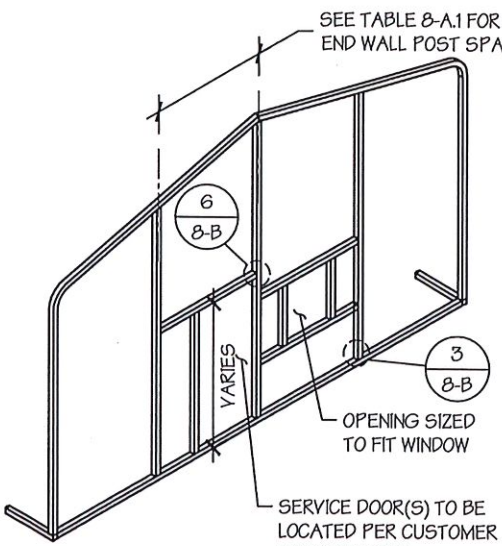
END WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



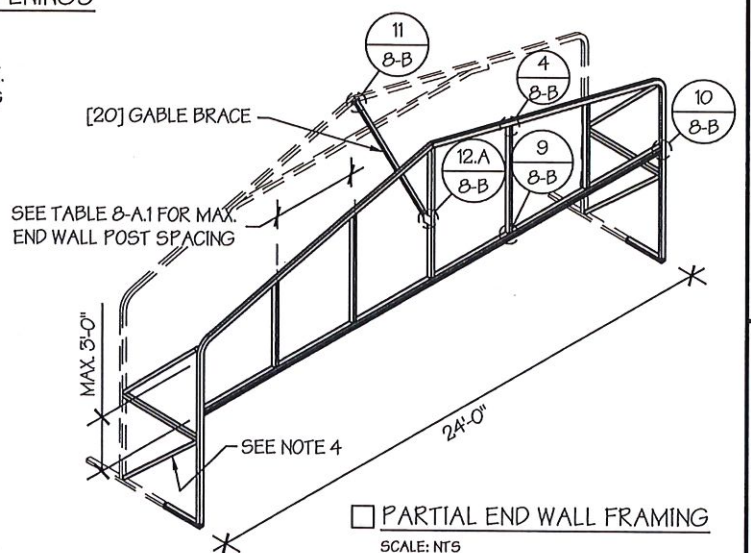
END WALL GABLES

SCALE: NTS



END WALL SERVICE DOOR AND WINDOW OPENINGS

SCALE: NTS



PARTIAL END WALL FRAMING

SCALE: NTS

TABLE 8-A.1: END WALL POST SPACING SCHEDULE

WIND SPEED (MPH)	EAVE HEIGHT		
	■ UP TO 7'	■ 8' TO 9'	■ 10' TO 12'
□ 105	5'	5'	5'
□ 115	5'	5'	4.5'
□ 130	4.5'	4.5'	4'
□ 140	4.5'	4.5'	3'
□ 155	4'	4'	2.5'
□ 165 - 180	3.5'	3'	2'

END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
4. DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

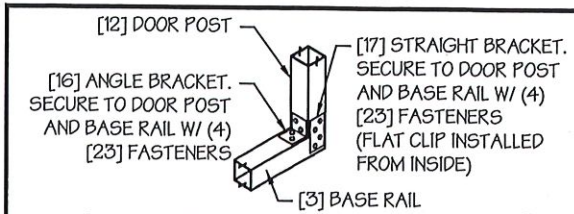
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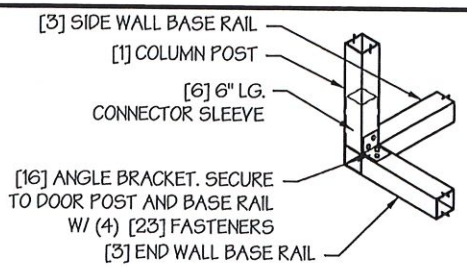
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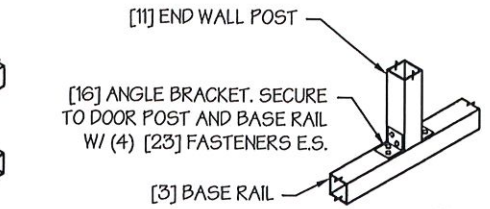
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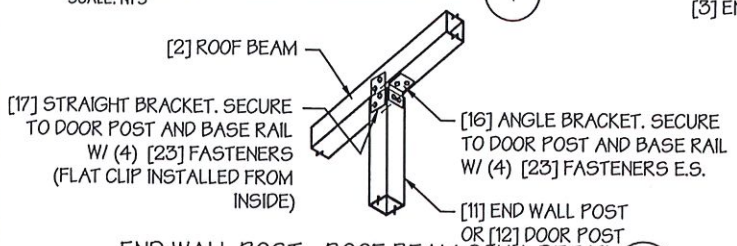
DOOR POST BASE RAIL CONN. DETAIL 1
SCALE: NTS



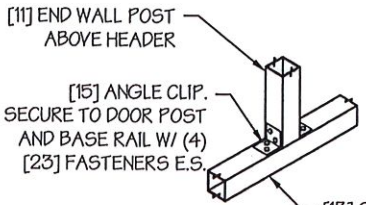
CORNER DETAIL 2
SCALE: NTS



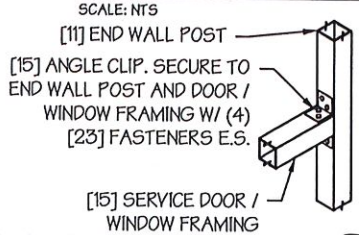
END WALL POST - BASE RAIL CONN. DETAIL 3
SCALE: NTS



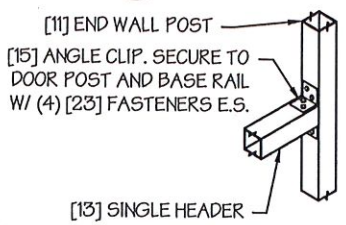
END WALL POST - ROOF BEAM CONN. DETAIL 4
SCALE: NTS



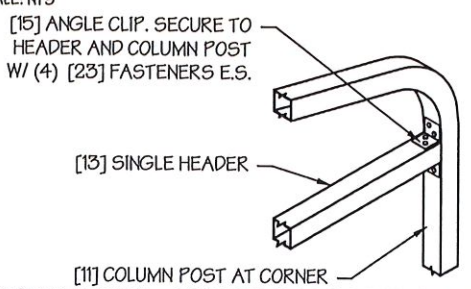
END WALL POST ABOVE HEADER CONN. DETAIL 5
SCALE: NTS



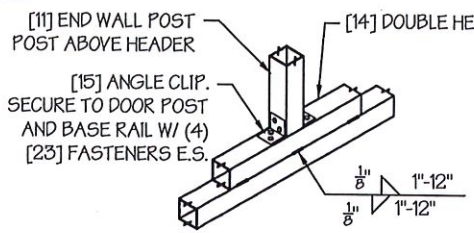
TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 6
SCALE: NTS



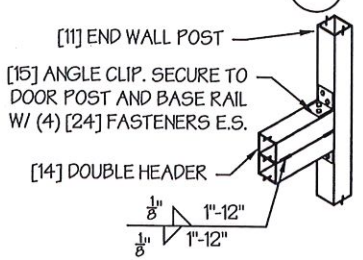
HEADER - END WALL POST CONN. DETAIL 7
SCALE: NTS



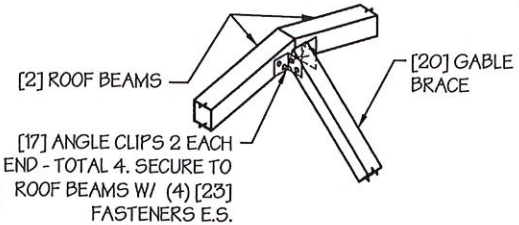
GABLE HEADER - CORNER POST CONN. DETAIL 8
SCALE: NTS



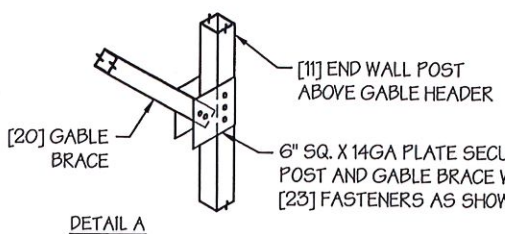
END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL 9
SCALE: NTS



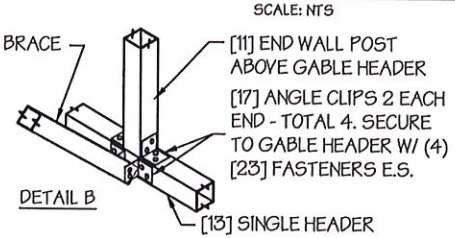
DOUBLE HEADER - END WALL POST CONN. DETAIL 10
SCALE: NTS



TYP. GABLE BRACE CONN. DETAIL 11
SCALE: NTS



DETAIL A



DETAIL B

GABLE BRACE - END WALL CONN. DETAIL 12
SCALE: NTS

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ENGINEERED BY:
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CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

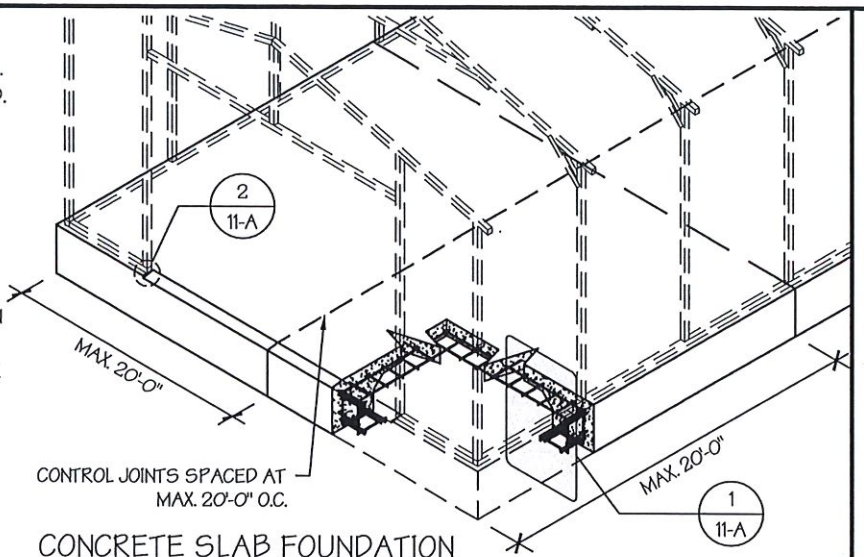
SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023

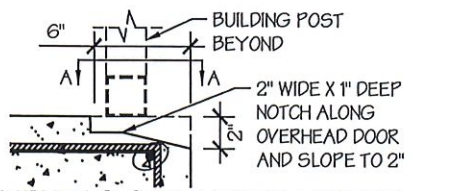
CONCRETE SLAB FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
4. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $5\frac{1}{2}$" FOR 14GA MATERIAL AND $5\frac{3}{4}$" FOR 12GA MATERIAL.
6. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
7. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
8. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
9. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



CONCRETE SLAB FOUNDATION

SCALE: NTS



OVERHEAD DOOR NOTCH DETAIL (2)

SCALE: NTS

TABLE 11-A.1: NOTCH WIDTH

HORIZONTAL/OPEN		VERTICAL	
☐ 14GA	☐ 12GA	☐ 14GA	☐ 12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

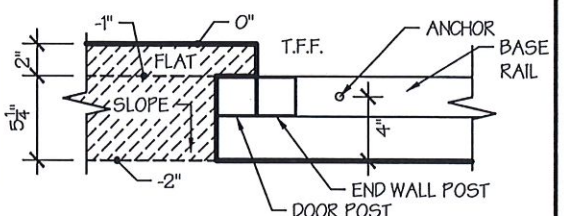
NOTE: DEPTH IS TO BE 1 1/2"

TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

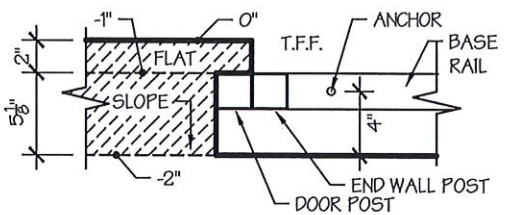
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"

NOTES:

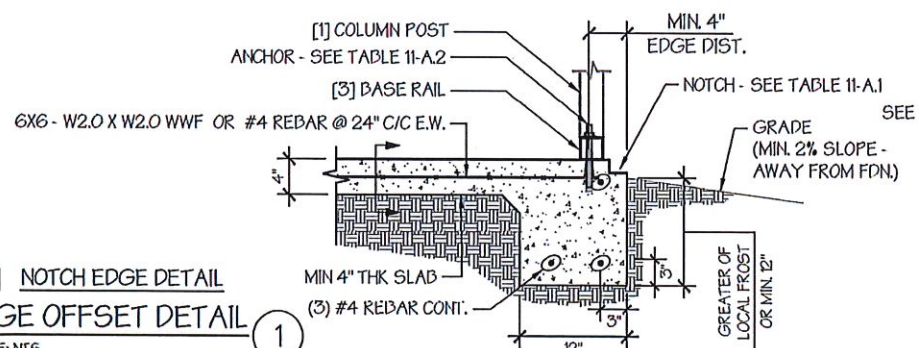
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE $2\frac{7}{8}$".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



14GA SECTION A-A



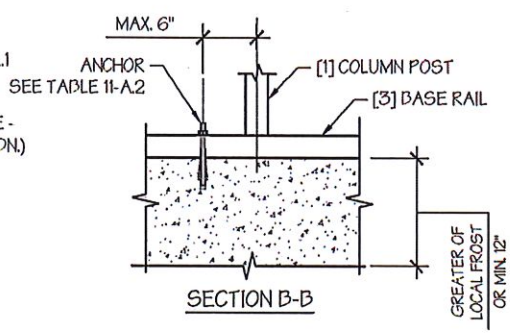
12GA SECTION A-A



☐ NOTCH EDGE DETAIL

EDGE OFFSET DETAIL (1)

SCALE: NTS



SECTION B-B

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC

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

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

SHEET NO.: 11-A / 11

DRAWN BY: AW DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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