

24' WIDE FRAME 'CARPORT STYLE' METAL BUILDING GENERICS



SCOPE OF PLANS:

1. TO PROVIDE STRUCTURAL DESIGN FOR A VARIETY OF PRE-FAB METAL BUILDINGS PER THE SPECIFIED DESIGN LOADS, AND APPLICABLE BUILDING CODES.
2. DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.
3. DOES NOT PROVIDE ANY DOOR OR WINDOW DESIGN INFORMATION. THOSE SHALL BE ADDRESSED BY DOOR AND WINDOW MANUFACTURER.
4. THESE DOCUMENT SHALL NOT BE USED TO PERMIT OR JUSTIFY DESIGN OF AS-BUILT / EXISTING STRUCTURES OR BUILDINGS BUILT WITHOUT A PERMIT.

GENERAL DESIGN NOTES

1. THESE STRUCTURES ARE DESIGNED AS **RISK CATEGORY I (NON-HABITABLE)**, UTILITY / STORAGE / PRIVATE GARAGE / SHED TYPE BUILDINGS - THAT ONLY DESIGNED TO RESIST THE DEAD LOADS, LIVE LOADS, AND WIND LOADS LISTED UNDER "STRUCTURAL DESIGN CRITERIA". ANY ADDITIONAL LOADINGS WITHOUT RE-DESIGN OR ENGINEERING CONSULTATION SHALL NOT BE PERMITTED.
2. ALL MATERIALS IDENTIFIED BY A MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
3. ALL WELDED CONNECTIONS SHALL BE SHOP WELDED CONNECTIONS. **FIELD WELDING IS NOT PERMITTED NOR REQUIRED.**
4. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE:
ASTM A500 GRADE C OR EQUAL:
Fy = 50 KSI Fu = 65 KSI
5. GYPSUM 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.

STRUCTURAL DESIGN CRITERIA

ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PREVAILING CODES LISTED BELOW AND ALL APPLICABLE LOCAL REQUIREMENTS.

PREVAILING CODE: **2015 IBC CODE**
MINIMUM DESIGN STANDARD: **ASCE 7-10**

OCCUPANCY GROUP: **U (CARPORT / UTILITY / GARAGE / SHED)**
CONSTRUCTION TYPE: **V - B**
RISK CATEGORY: I (NON-HABITABLE)

1. ROOF DEAD LOAD (D) **2.0 PSF (COLLATERAL)**

2. ROOF LIVE LOAD (Lr)
Lr = 20 TO 61 PSF
(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)

3. SNOW LOAD (S)
GROUND SNOW LOAD
Pg = 20 TO 90 PSF
(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)
Is = 0.80
Ct = 1.2
Ce = 1.0
Cs = 1.0
Pf = 20 TO 61 PSF
Ps = 20 TO 61 PSF
Pm = 20

IMPORTANCE FACTOR
THERMAL FACTOR
EXPOSURE FACTOR
ROOF SLOPE FACTOR
FLAT ROOF SNOW LOAD
SLOPED ROOF SNOW LOAD
MINIMUM SNOW LOAD

4. WIND LOAD (W)
EXPOSURE
DESIGN WIND SPEED
C
Vult = 105 TO 180 MPH
(VARIES BASED ON FRAME SPACING AND DESIGN OPTIONS)

5. SEISMIC LOAD (E)
DESIGN CATEGORY
IMPORTANCE FACTOR
C
Ie = 1.00

ASD 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)

CONTACT INFORMATION

FOR QUESTIONS OR INFORMATION NEEDED PLEASE, CONTACT THE **METAL BUILDINGS MANUFACTURER LISTED ON PLANS**. ENGINEER OF RECORD REQUIRES AUTHORIZATION FROM THE METAL BUILDINGS MANUFACTURER TO ADDRESS ANY QUERIES

THE INFORMATION CONTAINED IN THESE DRAWINGS IS THE SOLE PROPERTY OF METAL BUILDING MANUFACTURER LISTED ON THIS PAGE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF METAL BUILDING MANUFACTURER LISTED BELOW IS PROHIBITED. LEGAL ACTION WILL BE TAKEN AS NECESSARY AS A RESULT.

ANY REQUESTS, CHANGES, MODIFICATIONS REVISIONS TO INFORMATION PROVIDED IN THIS DOCUMENT WILL REQUIRE A COMPLETELY SEPARATE SITE-SPECIFIC SET OF PLANS; INQUIRE WITH THE LISTED METAL BUILDING MANUFACTURER.

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MANUFACTURED BY:



Reset Form

ENGINEERED BY:



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CIVIL • STRUCTURAL

DRAWING INFORMATION

PROJECT: **24' WIDE**
LOCATION: **STATE OF NORTH CAROLINA**
PROJECT NO.: **325-25-0321**
SHEET TITLE: **COVER SHEET**

SHEET NO.: **1 / 11**

CHECKED BY: **OAA** DATE: **1/25/24**

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 1 YEAR FROM DATE OF ISSUE.

SEAL:



Omar Abu-Yasein

Digitally signed by Omar Abu-Yasein
Date: 2025.02.12 14:01:50 -05'00'

CUSTOMER INFORMATION

OWNER: **David Kohrman**
ADDRESS: **9445 Purfoy Rd, Fuquay Varina, NC 27526**

DESIGN LOADS

GROUND SNOW: **20 psf**

ROOF LIVE LOAD: **30 psf**

BASIC WIND SPEED: **115 mph**

BUILDING INFORMATION

WIDTH: **24**

LENGTH: **35**

HEIGHT: **10**

FRAME TYPE: ☒ A-FRAME
☐ REGULAR

☒ FULL
☐ PARTIAL
☐ OPEN

ENCLOSURE TYPE:

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS
EXPIRATION: **02-10-2026**

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

STAMP EXPIRY: **12-31-2025**
DATE SIGNED: **02-10-2025**

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" X 1" X 14GA / 18GA HAT CHANNEL	5
9	GRT	4" X 1" X 14GA / 18GA HAT CHANNEL	5
9A	OPT. END WALL GRT	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

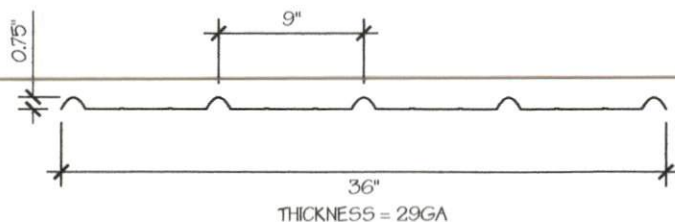
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4 1/2" C/C	9" C/C

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

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

TABLE 2.3: GAUGE THICKNESS

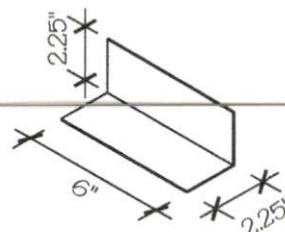
GAUGE	29	18	14	12
THICKNESS (IN)	0.0135	0.049	0.083	0.109



29 GA CORRUGATED SHEATHING

SCALE: NTS

8

THICKNESS = 14GA
DB BRACKET

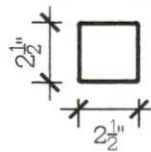
SCALE: NTS

9

THICKNESS = 14GA
STRAIGHT BRACKET

SCALE: NTS

6

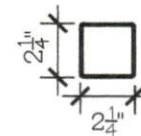


THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE

SCALE: NTS

1

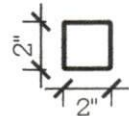


THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE

SCALE: NTS

2

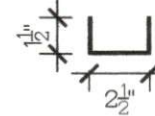


THICKNESS = 14GA

2" X 2" 14GA TUBE

SCALE: NTS

3

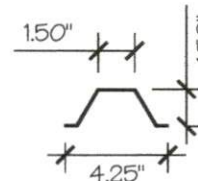


THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL

SCALE: NTS

4

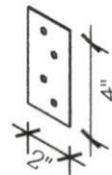


THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA
HAT CHANNEL

SCALE: NTS

5

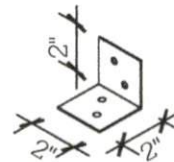


THICKNESS = 14GA

STRAIGHT BRACKET

SCALE: NTS

6

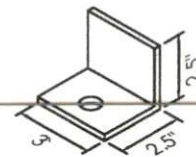


THICKNESS = 14GA

ANGLE BRACKET

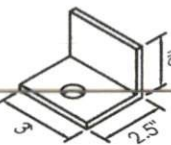
SCALE: NTS

7

OPTION A
12 1/2" X 2 1/2" X 3/16"

BASE ANGLE

SCALE: NTS

OPTION B
12 1/2" X 2" X 3/16" SLV

BASE ANGLE

SCALE: NTS

10

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

SCHEDULES &
MEMBER SECTIONS

SHEET NO.: 2 / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

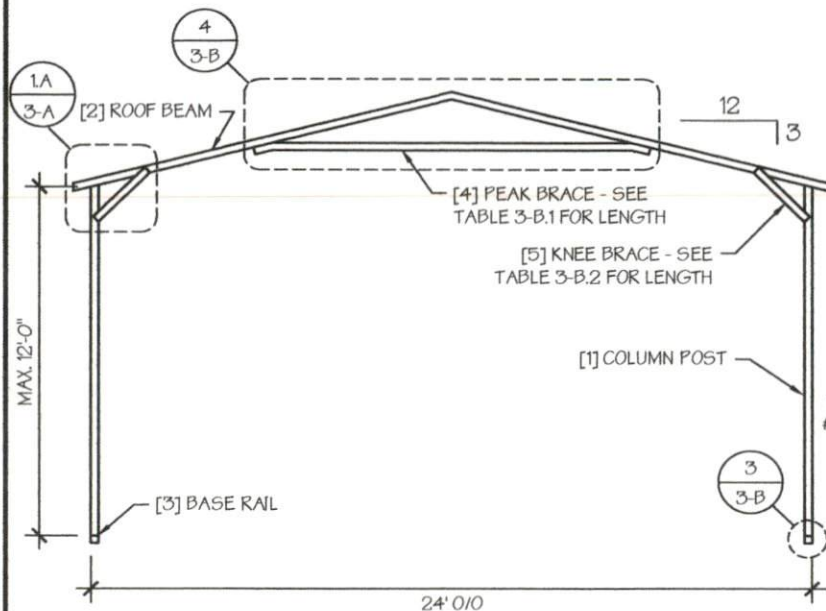
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SEAL:

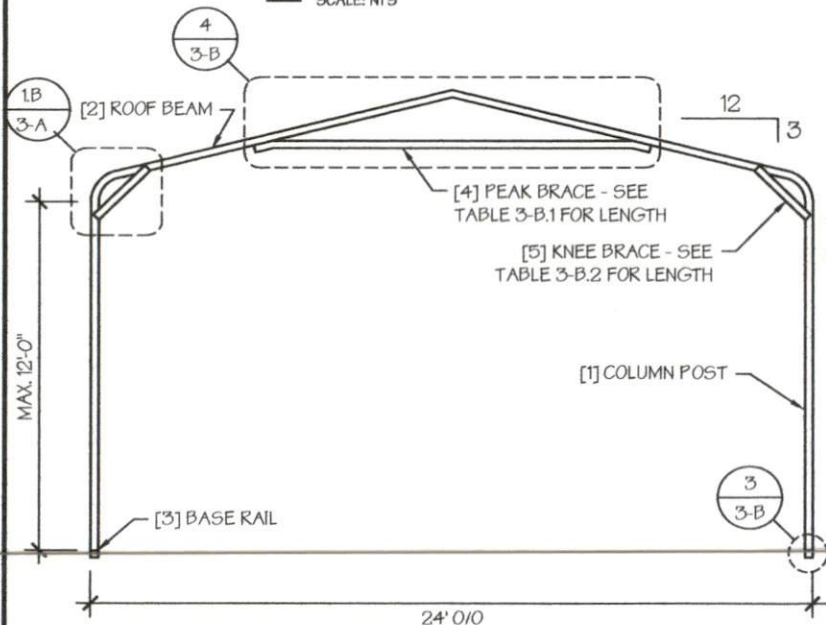


STAMP EXPIRY: 12-31-2025

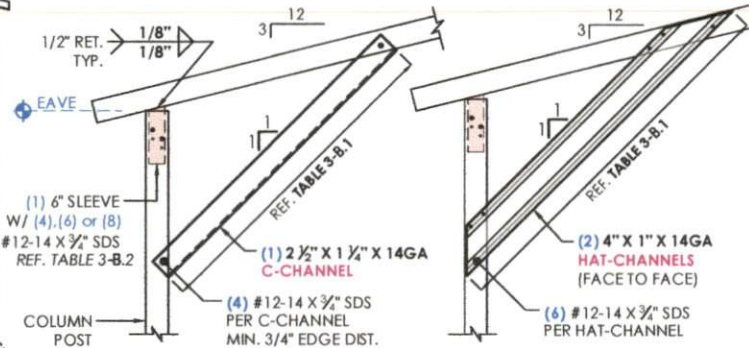
DATE SIGNED: 02-10-2025



☒ TYP. A-FRAME SECTION
SCALE: NTS

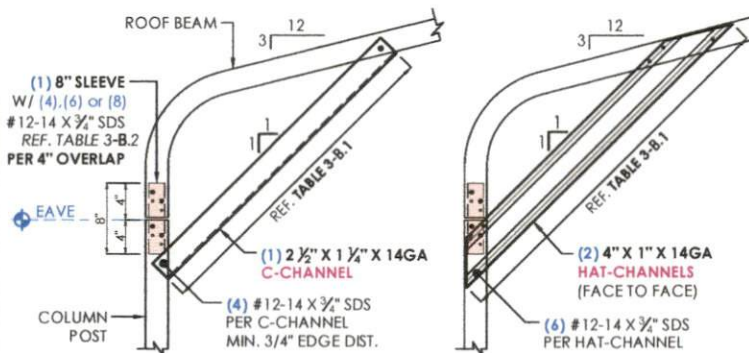


☐ TYP. REGULAR FRAME SECTION
SCALE: NTS



☒ 4 SIDES FULLY ENCLOSED ONLY ☐ ANY ENCLOSURE

1A A-FRAME (BOXED) STYLE - EAVE DETAIL
SCALE: NTS



☐ 4 SIDES FULLY ENCLOSED ONLY ☐ ANY ENCLOSURE

1B REGULAR (BENT-BOW) STYLE - EAVE DETAIL
SCALE: NTS

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

FRAME SECTIONS &
DETAILS

SHEET NO.: 3-A / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

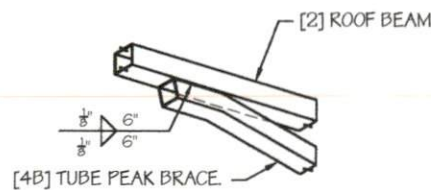
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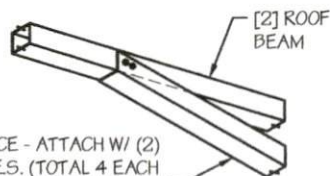


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DATE SIGNED: 02-10-2025



A. PEAK BRACE TUBE



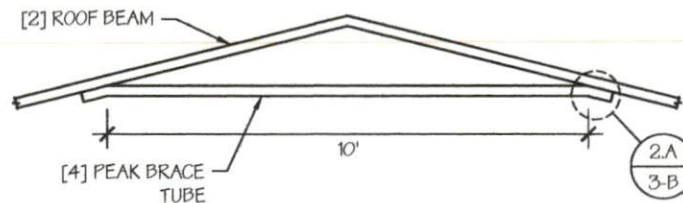
[4] PEAK BRACE - ATTACH W/ (2) [23] FASTENERS E.S. (TOTAL 4 EACH END). MAINTAIN MIN. 1" EDGE DISTANCE AND SPACING

B. PEAK BRACE CHANNEL

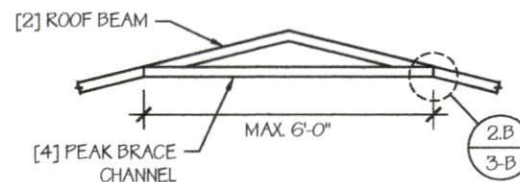
PEAK BRACE CONNECTION DETAILS

SCALE: NTS

2



A. WELDED PEAK BRACE



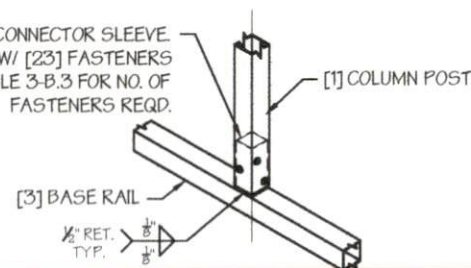
B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS

SCALE: NTS

4

[6] 6" LG. CONNECTOR SLEEVE
FIELD BOLT W/ [23] FASTENERS
- SEE TABLE 3-B.3 FOR NO. OF
FASTENERS REQD.



BASE DETAIL

SCALE: NTS

3

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 $\pm 1"$ FOR LEVELING.
MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND
AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

MANUFACTURED BY:



ENGINEERED BY:



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DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

FRAME DETAILS

SHEET NO.: 3-B / 11

CHECKED BY: OAA DATE: 1/25/24

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SEAL:



STAMP EXPIRY: 12-31-2025

DATE SIGNED: 02-10-2025

TABLE 4: FRAME SPACING CHART / SCHEDULE

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

NOTES:

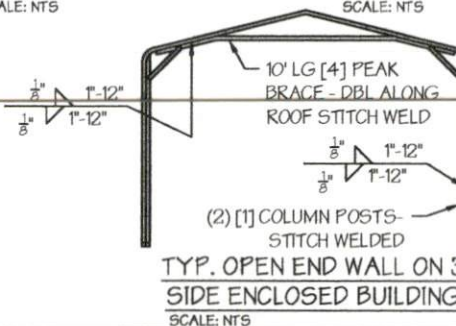
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL ROOF SHEATHING
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, 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.

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.

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

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

SPACING SCHEDULES
& ENCLOSURE NOTES

SHEET NO.: 4 / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

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SEAL:



STAMP EXPIRY: 12-31-2025

DATE SIGNED: 02-10-2025

TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	FRAME SPACING: 5'-0"	14GA. HAT CHANNEL PURLIN							18GA. HAT CHANNEL PURLIN						
		WIND SPEED (MPH)							WIND SPEED (MPH)						
		105	115	130	140	155	165	180	105	115	130	140	155	165	180
30 / 20	3'-0"	54	48	42	36	30	24	24	36	30	24	18	18	12	12
40 / 27	4'-0"	42	42	42	36	30	24	24	30	30	24	18	18	12	12
50 / 34	5'-0"	40	40	40	36	30	24	24	24	24	24	18	18	12	12
60 / 41	6'-0"	36	36	36	36	30	24	24	18	18	18	18	18	12	12
70 / 47	7'-0"	32	32	32	32	30	24	24	18	18	18	18	18	12	12
80 / 54	8'-0"	30	30	30	30	30	24	24	18	18	18	18	18	12	12
90 / 61	9'-0"	24	24	24	24	24	24	24	12	12	12	12	12	12	12
30 / 20	4'-6"	54	48	42	42	36	30	30	48	36	30	24	18	18	12
40 / 27	5'-6"	42	42	42	42	36	30	30	42	36	30	24	18	18	12
50 / 34	6'-6"	40	40	40	40	36	30	30	30	30	30	24	18	18	12
60 / 41	7'-6"	36	36	36	36	36	30	30	30	30	30	24	18	18	12
70 / 47	8'-6"	32	32	32	32	32	30	30	24	24	24	24	18	18	12
80 / 54	9'-6"	32	32	32	32	32	30	30	18	18	18	18	18	18	12
90 / 61	10'-6"	30	30	30	30	30	30	30	18	18	18	18	18	18	12
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50 / 34	5'-6"	40	40	40	40	36	36	30	40	40	36	30	24	24	18
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70 / 47	7'-6"	32	32	32	32	32	32	30	30	30	30	30	24	24	18
80 / 54	8'-6"	32	32	32	32	32	32	30	24	24	24	24	24	24	18
90 / 61	9'-6"	30	30	30	30	30	30	30	24	24	24	24	24	24	18
30 / 20	3'-0" OR LOWER	54	48	42	42	36	36	30	54	48	42	42	36	30	30
40 / 27		42	42	42	42	36	36	30	42	42	42	42	36	30	30
50 / 34		40	40	40	40	36	36	30	40	40	40	40	36	30	30
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70 / 47		32	32	32	32	32	32	30	32	32	32	32	32	30	30
80 / 54		32	32	32	32	32	32	30	32	32	32	32	32	30	30
90 / 61		30	30	30	30	30	30	30	30	30	30	30	30	30	30

NOTES:

- PURLIN SPACING UNITS ARE IN INCHES.
- FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

IRREGULAR BUILDING NOTES:

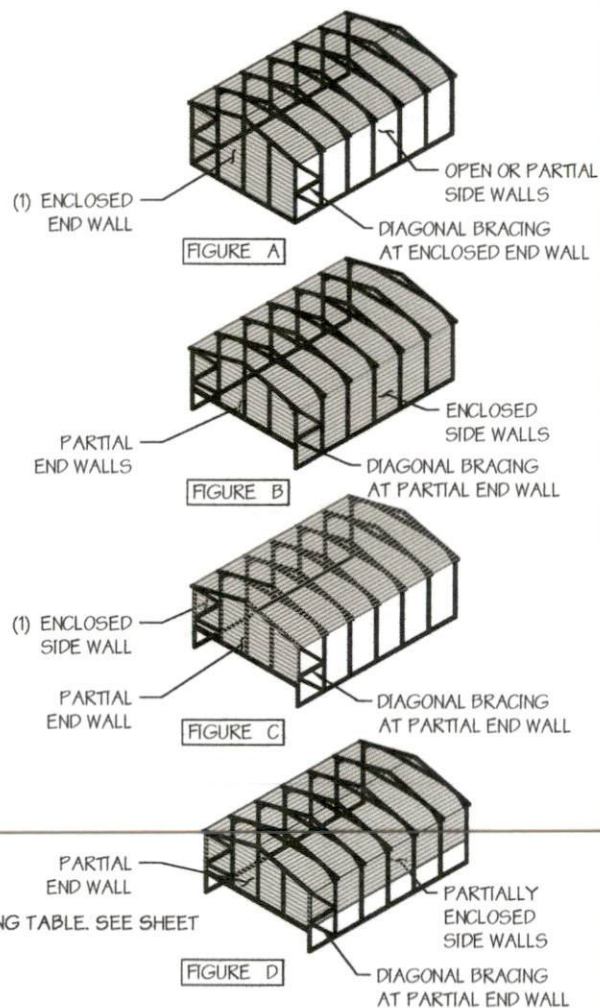
- FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
- FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
- SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
- IRREGULAR BUILDING & BUILDINGS W/ MORE 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:

- GIRT SPACING UNITS ARE IN INCHES.
- THIS SCHEDULE IS TO BE USED FOR BOTH 14GA AND 18 GA PURLINS.
- FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.



MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

PURLIN & GIRT
SPACING SCHEDULES

SHEET NO.: 5 / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

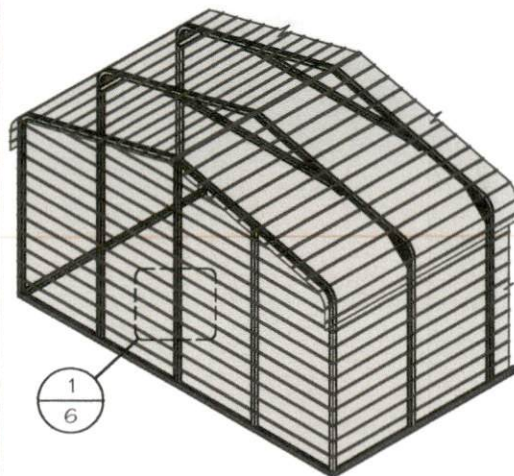
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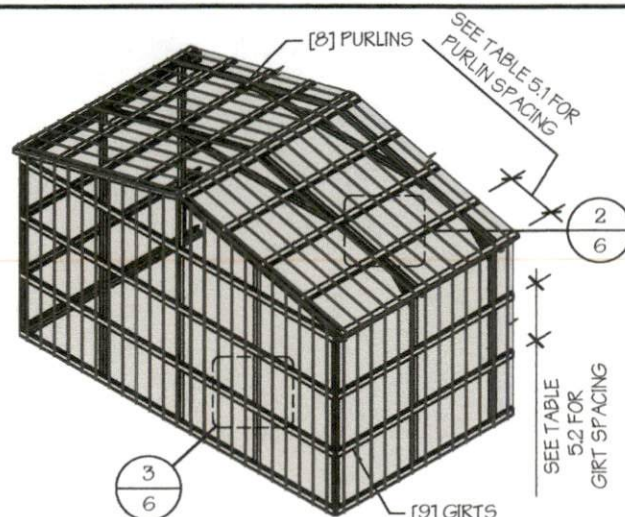
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☒ TYP. HORIZONTAL SHEATHING

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

MANUFACTURED BY:



ENGINEERED BY:



A&A ENGINEERING
CIVIL • STRUCTURAL

DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

SHEATHING OPTIONS
& DETAILS

SHEET NO.: 6 / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

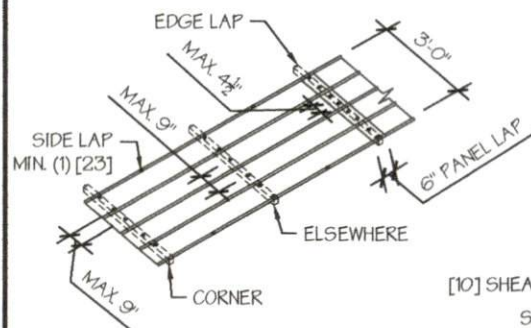
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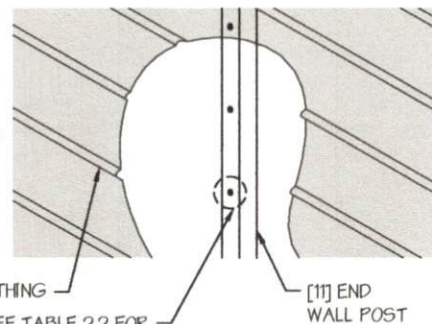
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TYP. SHEATHING FASTENER SCHEDULE

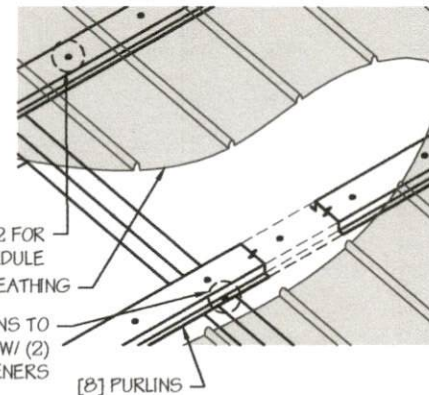
SCALE: NTS



TYP. HORIZONTAL SHEATHING DETAIL

SCALE: NTS

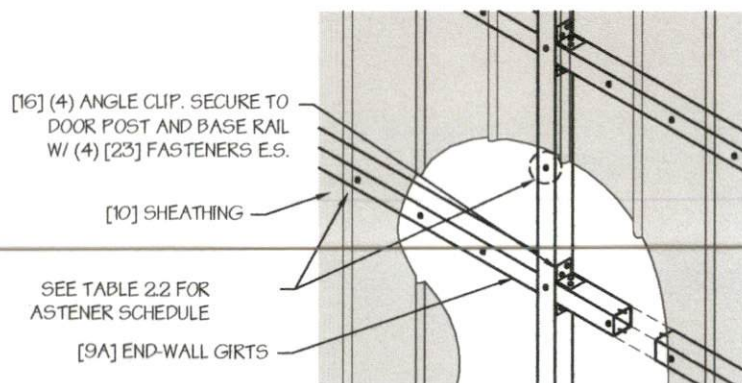
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ROOF VERTICAL SHEATHING DETAIL

SCALE: NTS

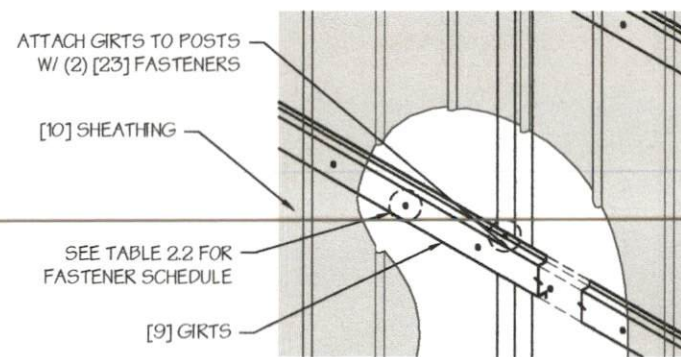
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☐ WALL VERTICAL SHEATHING - TUBE DETAIL

SCALE: NTS

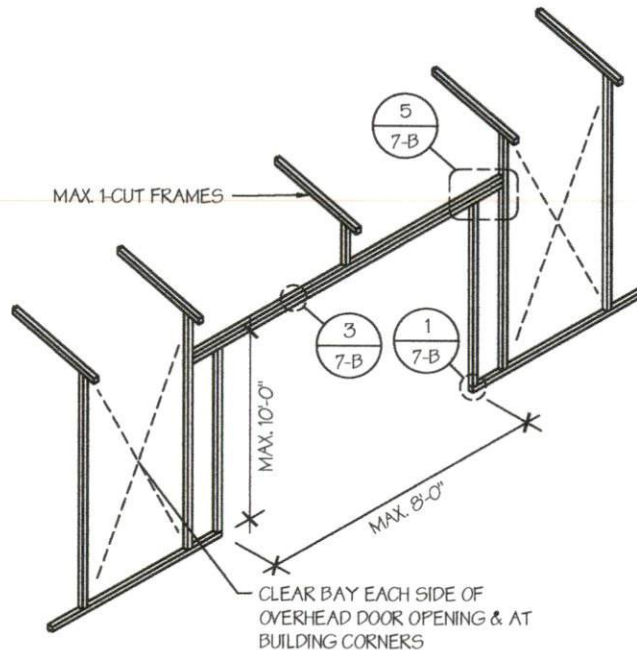
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☐ WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL

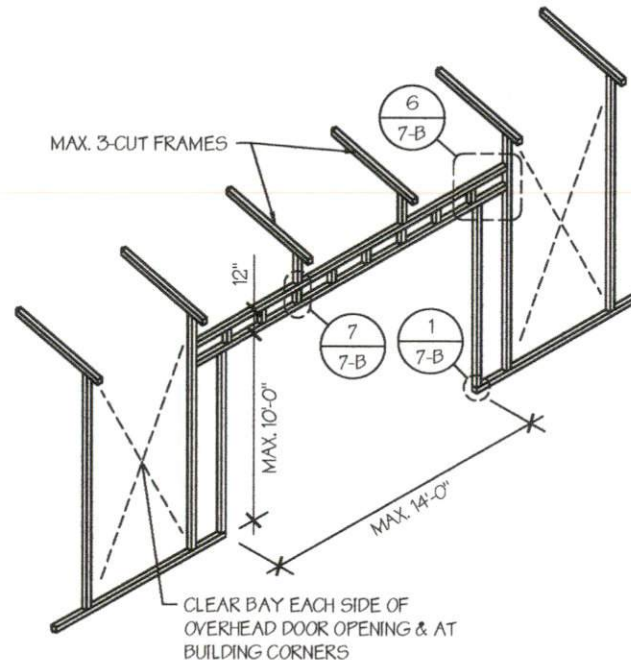
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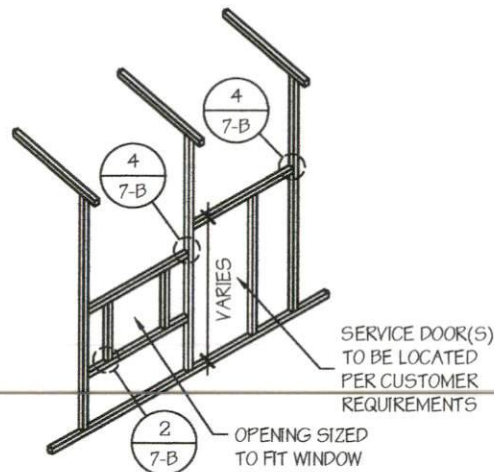
☐ SIDE WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



☐ SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER

SCALE: NTS



☒ SIDE WALL SERVICE DOOR / WINDOW OPENINGS

SCALE: NTS

SIDE WALL FRAMING NOTES:

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
3. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
4. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
5. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
7. SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

SIDE WALL FRAMING
& OPENINGS

SHEET NO.: 7-A / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

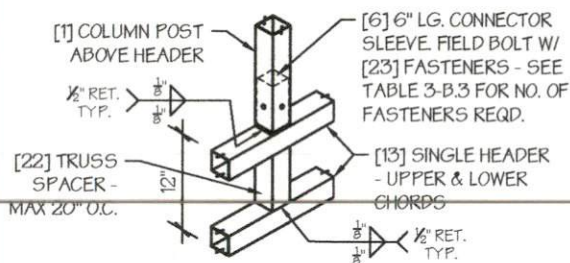
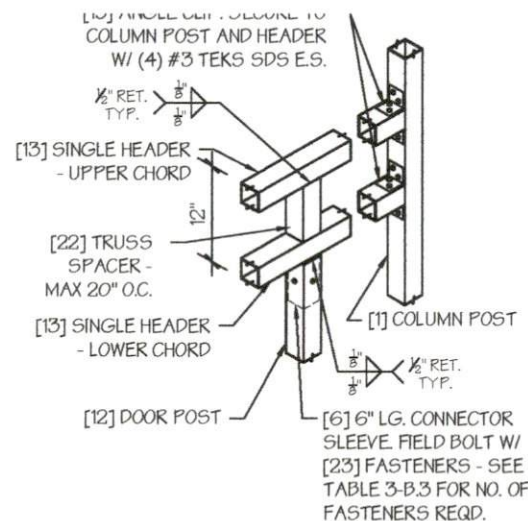
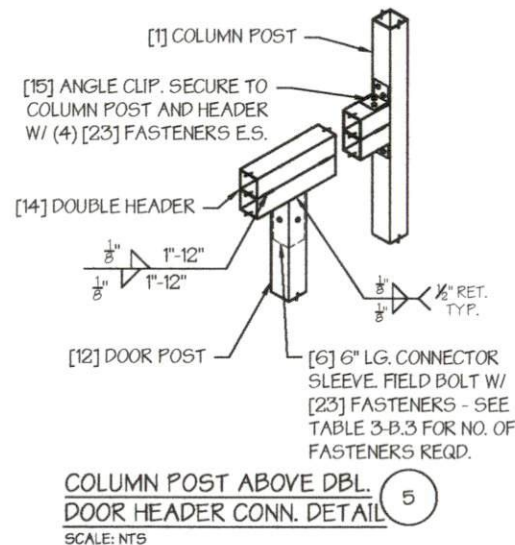
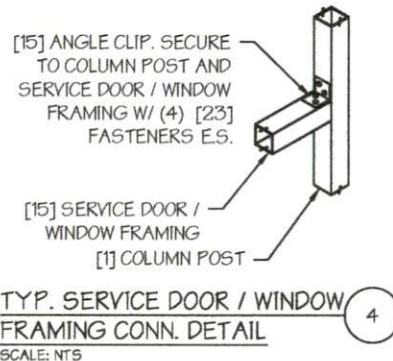
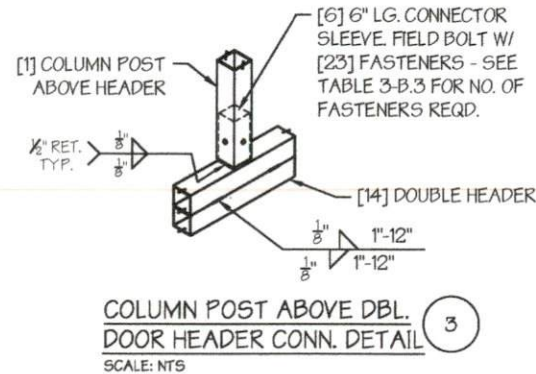
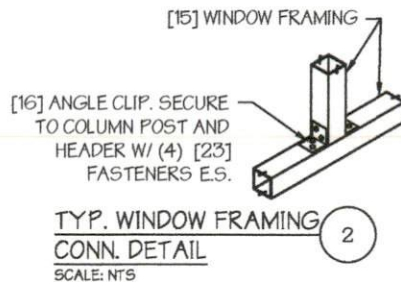
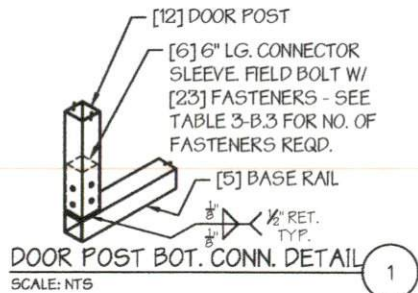
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DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE: SIDE WALL FRAMING DETAILS
SHEET NO.: 7-B / 11

CHECKED BY: OAA DATE: 1/25/24

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DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

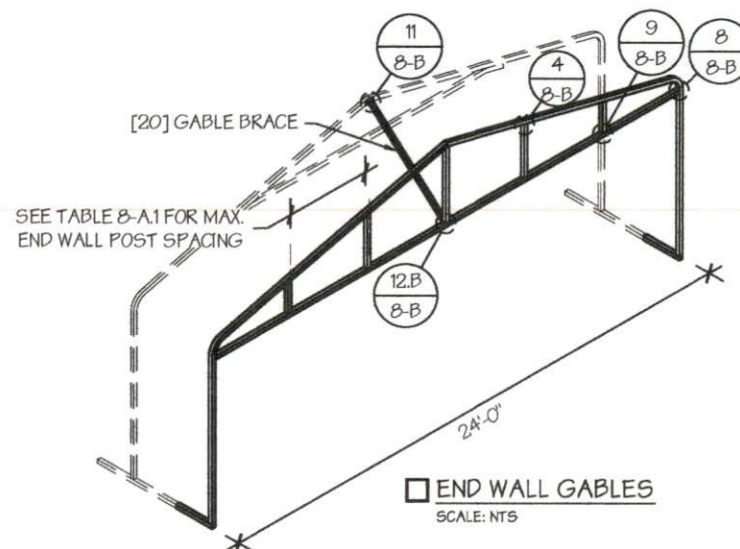
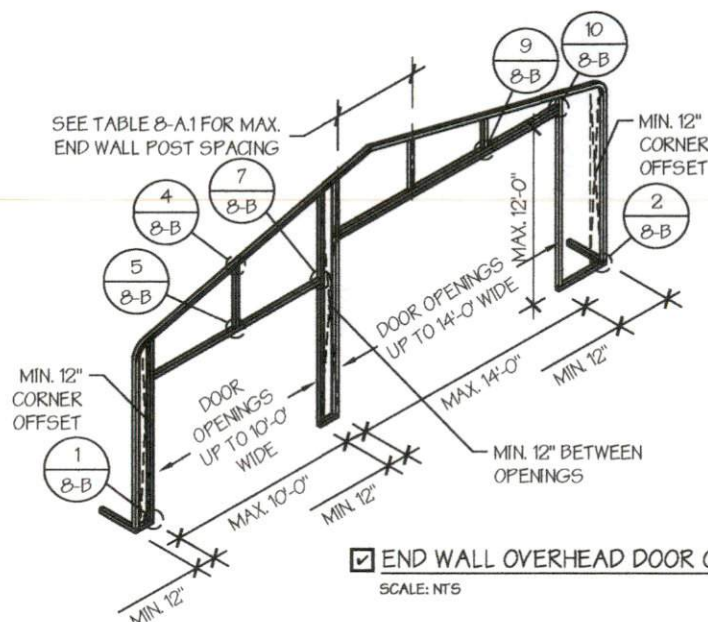
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GABLE BRACING NOTE

1. GABLE BRACE IS ONLY REQUIRED FOR PARTIALLY ENCLOSED END WALLS (END WALL POSTS ARE NOT ANCHORED TO THE GROUND).
2. FULLY ENCLOSED OR OPEN END WALLS DO NOT REQUIRE GABLE BRACING.

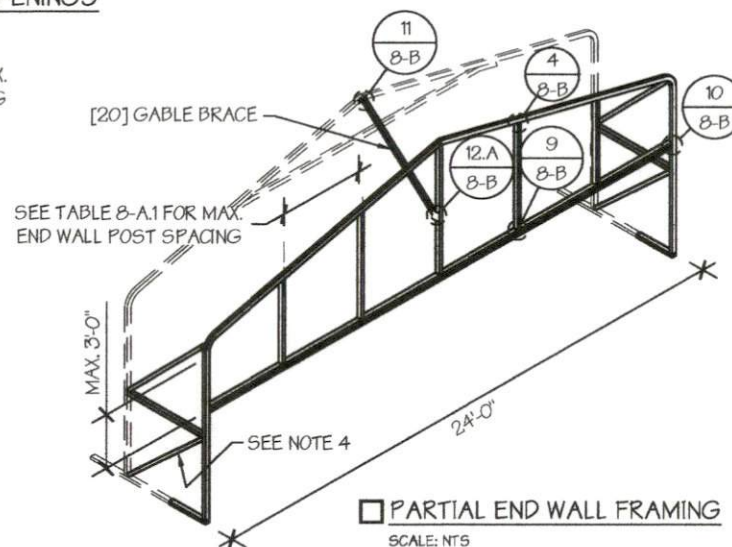
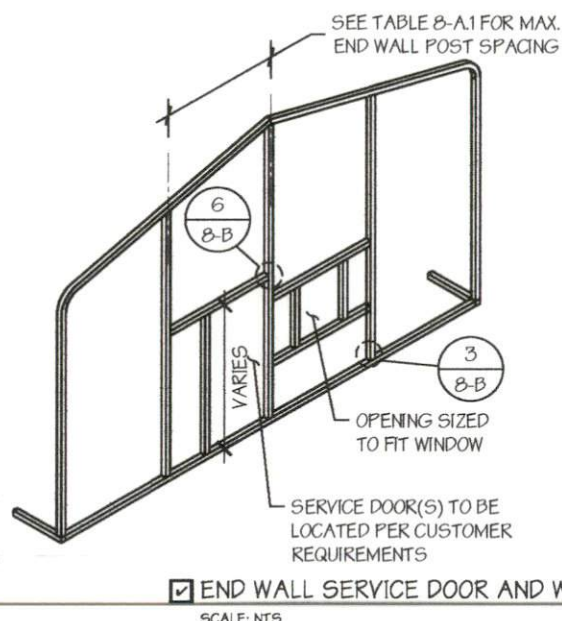
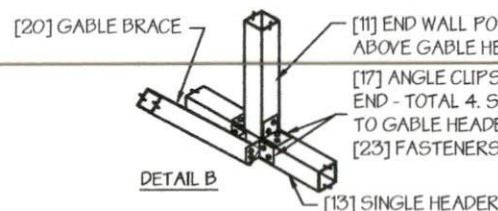
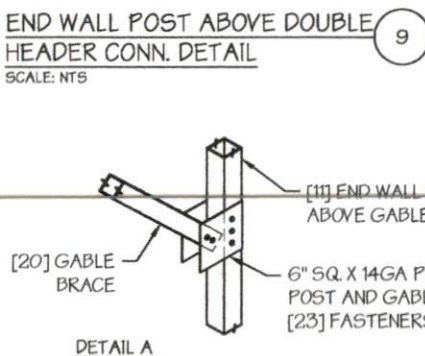
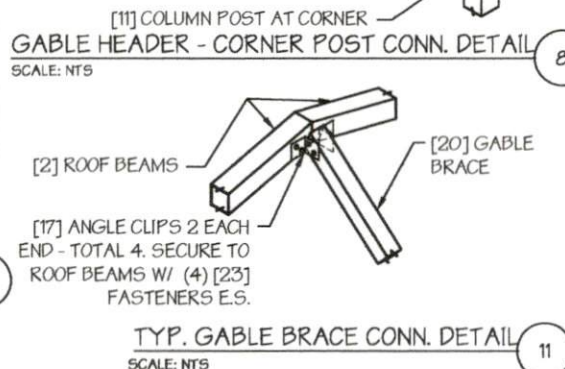
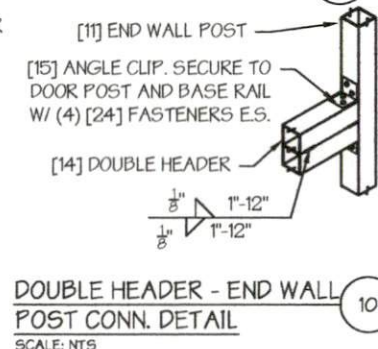
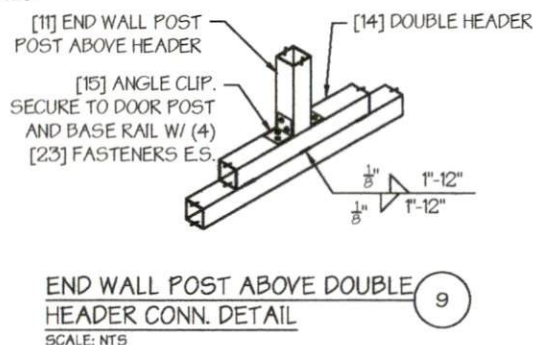
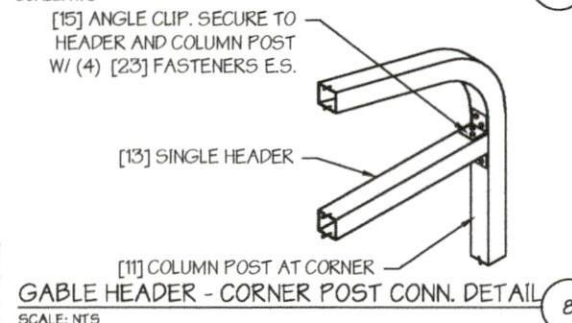
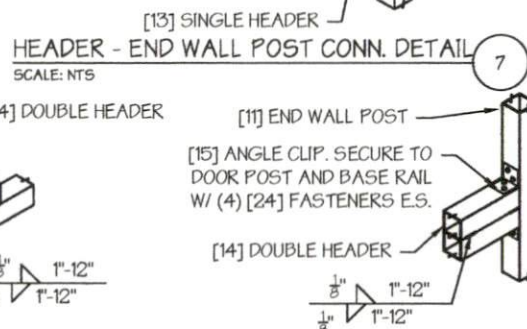
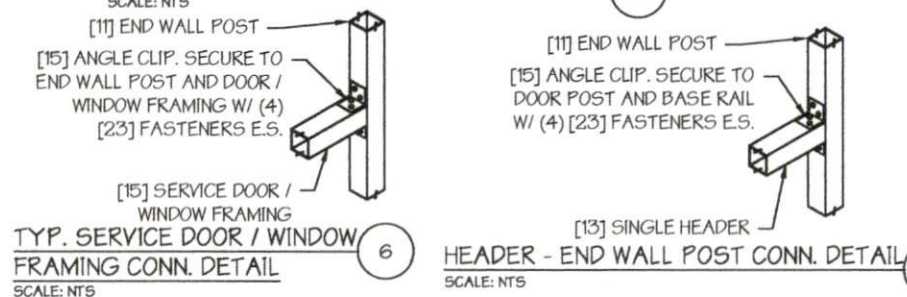
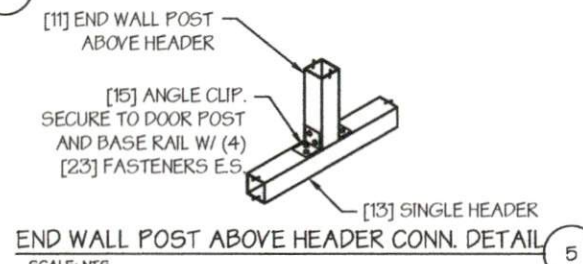
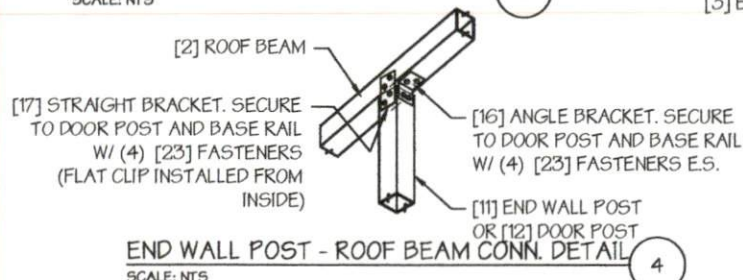
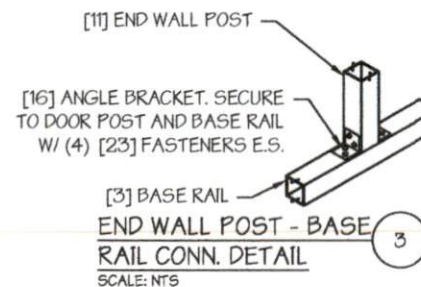
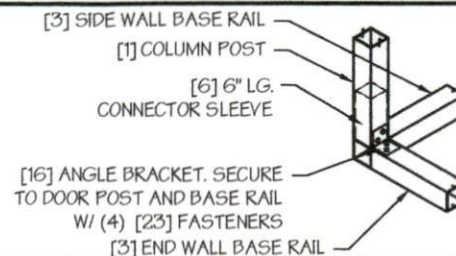
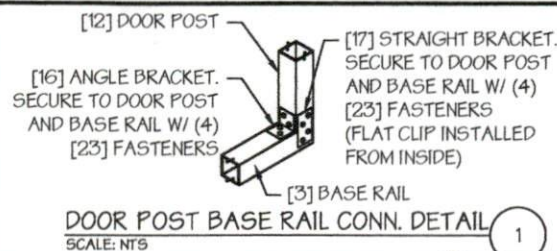


TABLE 8-A.1: END WALL POST SPACING SCHEDULE

WIND SPEED (mi/h)	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.



GABLE BRACING NOTE

1. GABLE BRACE IS ONLY REQUIRED FOR PARTIALLY ENCLOSED END WALLS (END WALL POSTS ARE NOT ANCHORED TO THE GROUND).
2. FULLY ENCLOSED OR OPEN END WALLS DO NOT REQUIRE GABLE BRACING.

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

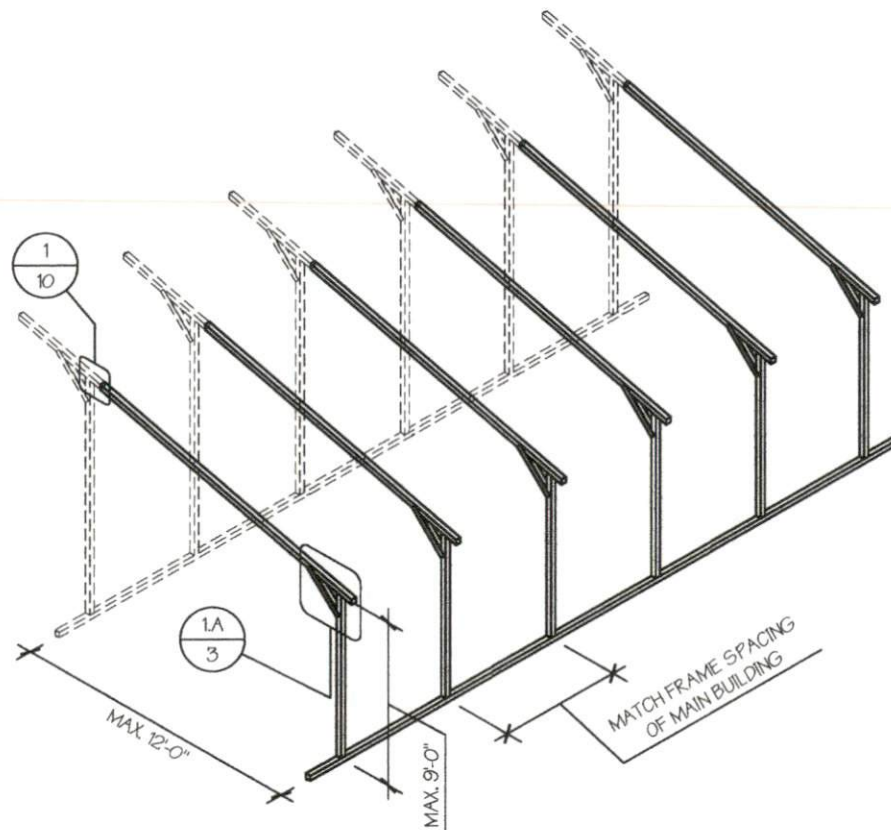
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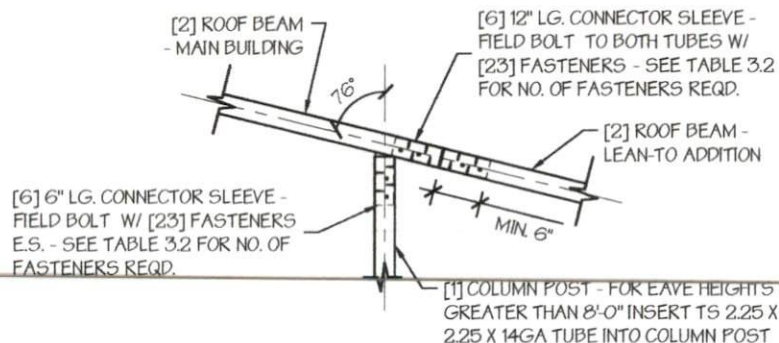


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☐ **OPTIONAL LEAN-TO ADDITION**
SCALE: NTS



LEAN-TO ATTACHMENT DETAIL
SCALE: NTS

LEAN-TO ADDITION NOTES:

1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS "OPEN" (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4.

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

OPTIONAL LEAN-TO
ADDITION

SHEET NO.: 10 / 11

CHECKED BY: OAA DATE: 1/25/24

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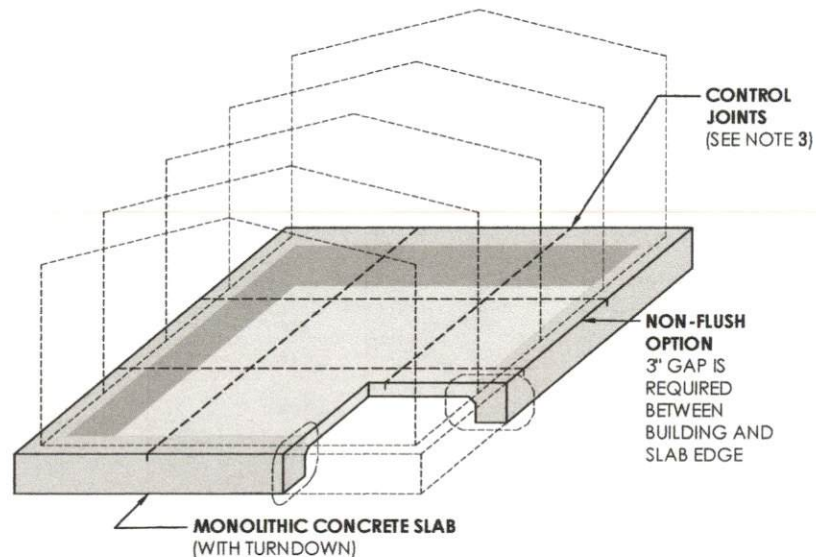
NON-FLUSH CONCRETE SLAB FOUNDATION NOTES:

1. THE LENGTH AND WIDTH OF THE SLAB SHALL **+6" GREATER** (3" GAP AROUND BUILDING PERIMETER ON ALL 4 SIDES) THAN THE FOOT-PRINT OF THE BUILDING TO ALLOW ANCHOR EDGE DISTANCE.
2. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
3. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
4. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
5. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
6. **IT IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR TO SECURE AND VERIFY ALL DESIGN DETAILS PRIOR TO STARTING ANY WORK.**

NOTE: ANY FOUNDATION POURED PRIOR TO BUILDING DEPARTMENTS APPROVAL OF THESE GENERICS, **IS CONSIDERED "BY OTHERS"**, AND ITS DESIGN IS NO LONGER CERTIFIABLE BY THIS ENGINEER OF RECORD.

ANCHORAGE NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 2. MIN. EMBEDMENT DEPTH TO BE 3".
 3. MINIMUM SPACING BETWEEN TWO ADJACENT ANCHORS TO BE 4".
 4. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
 5. REF. TABLE 11 FOR ANCHORAGE SCHEDULE.
- IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
 - AT MINIMUM, 1 CONCRETE ANCHOR SHALL BE LOCATED NEXT TO EVERY POST AND 1 ANCHOR ON EITHER SIDE OF OPENINGS.
 - AT MINIMUM, 2 ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL.

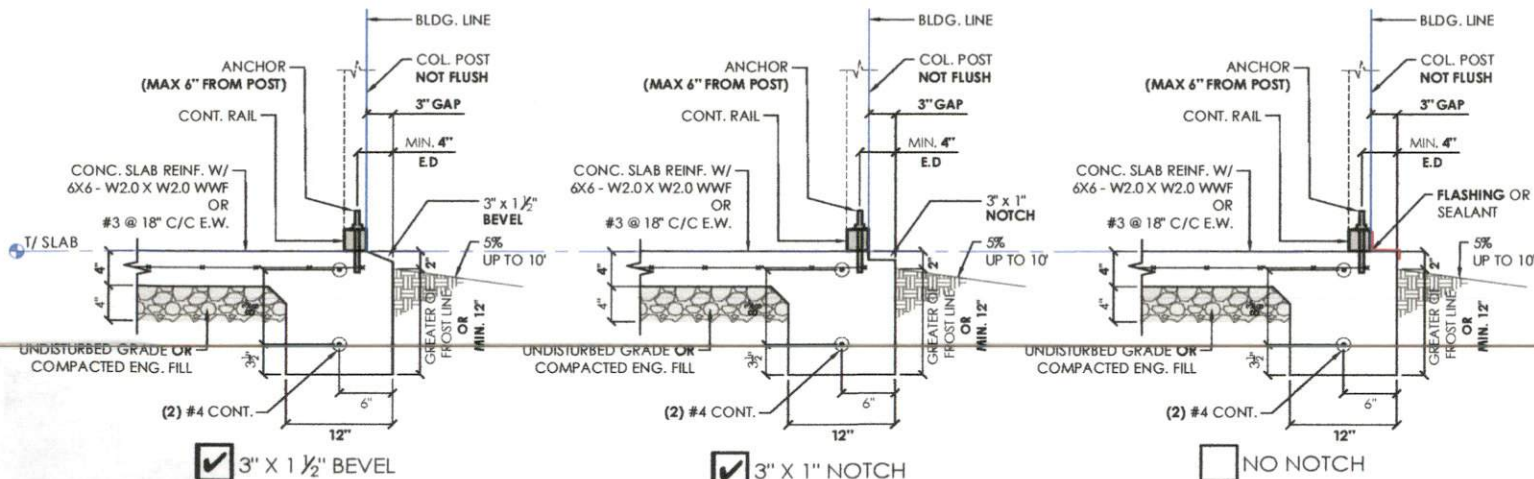


NON-FLUSH CONCRETE SLAB

SCALE: NTS

TABLE 11 : ANCHORAGE 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"



☒ 3" X 1 1/2" BEVEL

☒ 3" X 1" NOTCH

☐ NO NOTCH

1 **NON-FLUSH / OFFSET PERIMETER DETAIL**
SCALE: NTS

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE: FOUNDATION OPTION 1:
CONCRETE SLAB

SHEET NO.: 11-A / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

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SEAL:



STAMP EXPIRY: 12-31-2025

DATE SIGNED: 02-10-2025

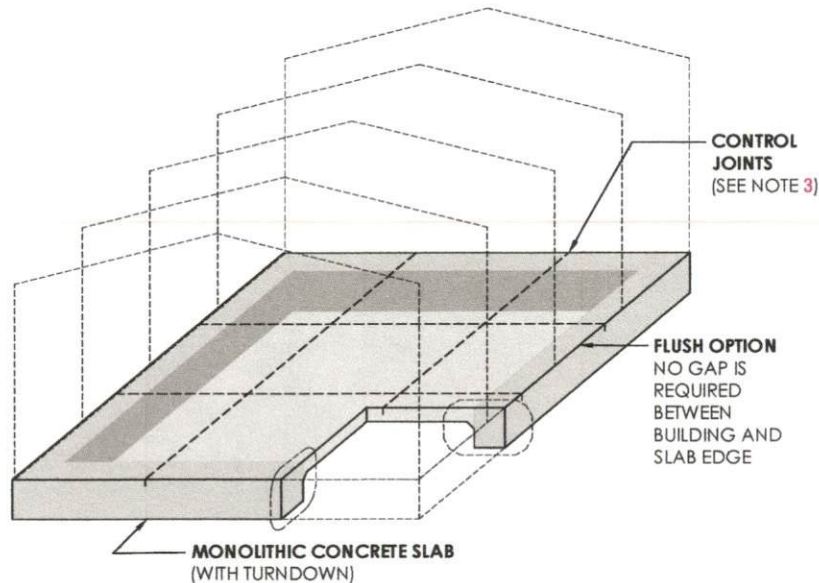
FLUSH CONCRETE SLAB FOUNDATION NOTES:

1. THE SIZE OF THE SLAB SHALL EQUAL THE FOOT-PRINT OF THE BUILDING. **ANCHORS CANNOT BE INSTALLED THRU THE BASE RAIL. ANCHORS SHALL BE INSTALLED THRU WELDED ANGLES OR INTERNAL TUBE PIECES** (REF. DETAIL 1) TO ALLOW ANCHOR EDGE DISTANCE.
2. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
3. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
4. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
5. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
6. **IT IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR TO SECURE AND VERIFY ALL DESIGN DETAILS PRIOR TO STARTING ANY WORK.**

NOTE: ANY FOUNDATION POURED PRIOR TO BUILDING DEPARTMENTS APPROVAL OF THESE GENERICS, **IS CONSIDERED "BY OTHERS"**, AND ITS DESIGN IS NO LONGER CERTIFIABLE BY THIS ENGINEER OF RECORD.

ANCHORAGE NOTES:

1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 2. MIN. EMBEDMENT DEPTH TO BE 3".
 3. MINIMUM SPACING BETWEEN TWO ADJACENT ANCHORS TO BE 4".
 4. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
 5. REF. TABLE 11 FOR ANCHORAGE SCHEDULE.
- IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
 - AT MINIMUM, 1 CONCRETE ANCHOR SHALL BE LOCATED NEXT TO EVERY POST AND 1 ANCHOR ON EITHER SIDE OF OPENINGS.
 - AT MINIMUM, 2 ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL.

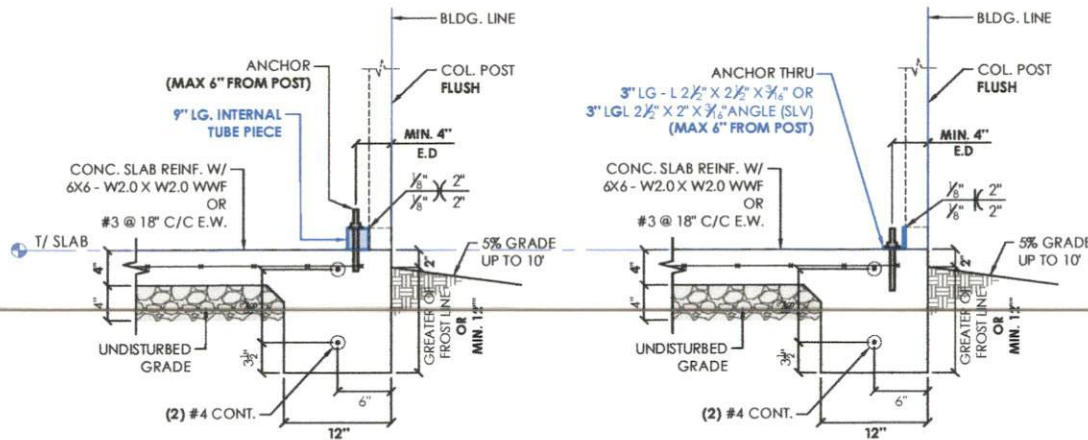


FLUSH CONCRETE SLAB

SCALE: NTS

TABLE 11 : ANCHORAGE 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"



1

FLUSH PERIMETER DETAIL
SCALE: NTS

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE:
FOUNDATION OPTION 1:
FLUSH CONCRETE SLAB
SHEET NO.: 11-A / 11

CHECKED BY: OAA DATE: 1/25/24

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TABLE 11-B.1: 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:

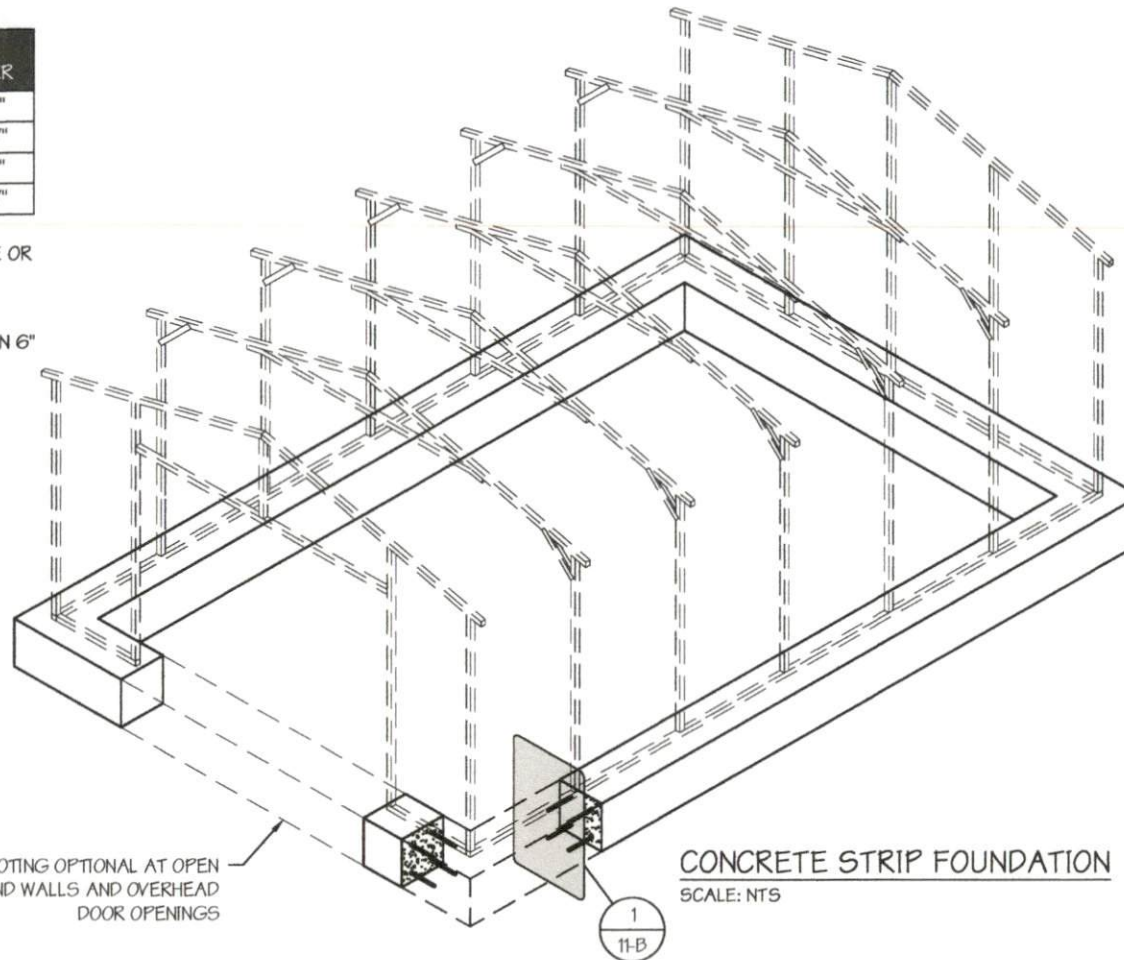
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE 2 7/8".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
105 TO 130	15" X 12"
140 TO 155	24" X 12"
165 TO 180	30" X 12"
	24" X 15"
	20" X 18"

NOTES:

1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.

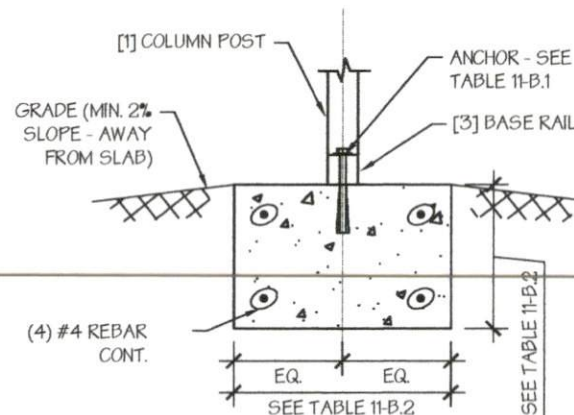


CONCRETE STRIP FOUNDATION

SCALE: NTS

CONCRETE STRIP FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP 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. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-B.1.
4. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
5. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
6. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
7. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
8. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.



CONCRETE STRIP FOUNDATION DETAIL

SCALE: NTS

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-25-0321

SHEET TITLE:

FOUNDATION OPTION 2:
CONCRETE STRIP

SHEET NO.: 11-B / 11

CHECKED BY: OAA DATE: 1/25/24

LEGAL INFORMATION

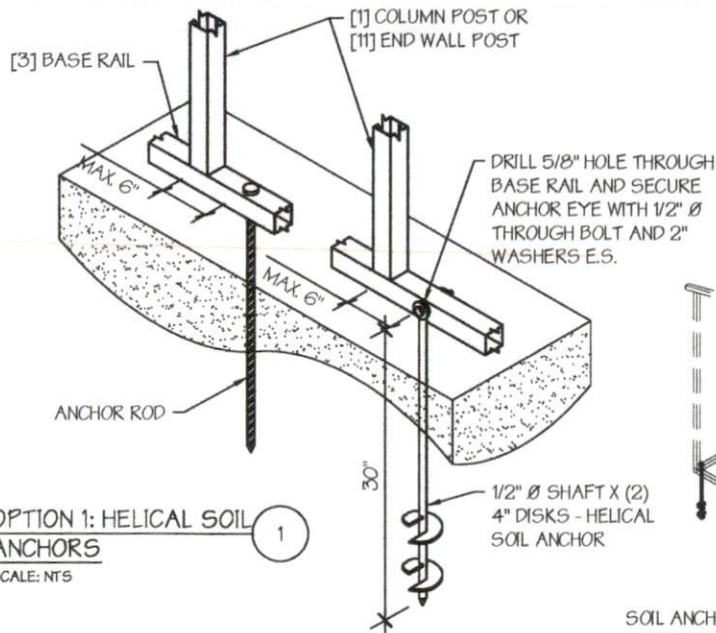
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☒ **OPTION 1: HELICAL SOIL ANCHORS**
SCALE: NTS

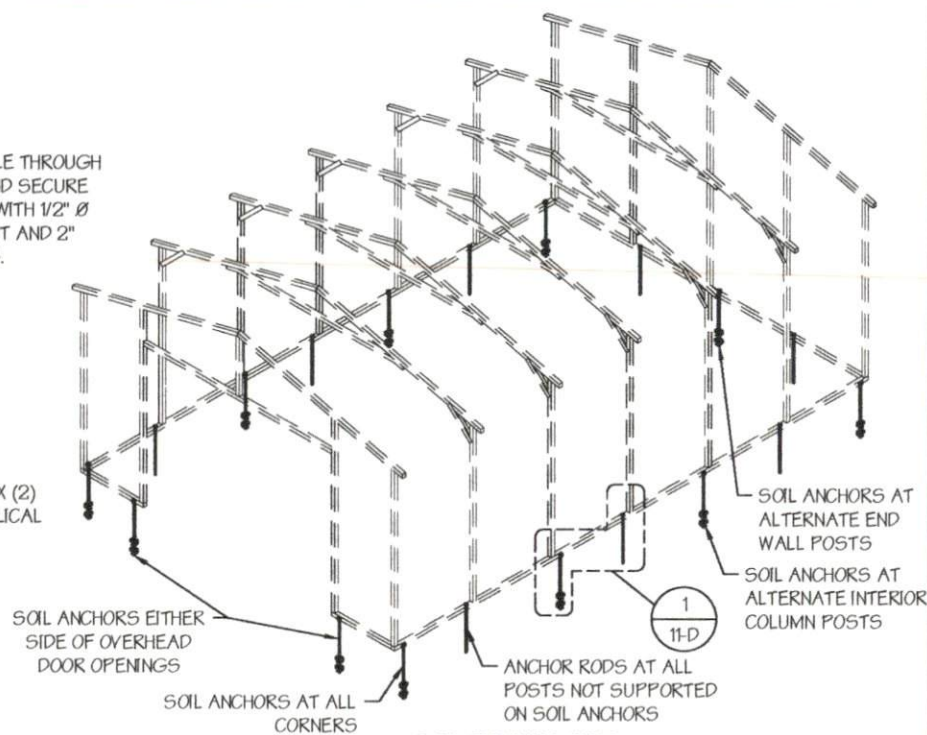
SOIL FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
- HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

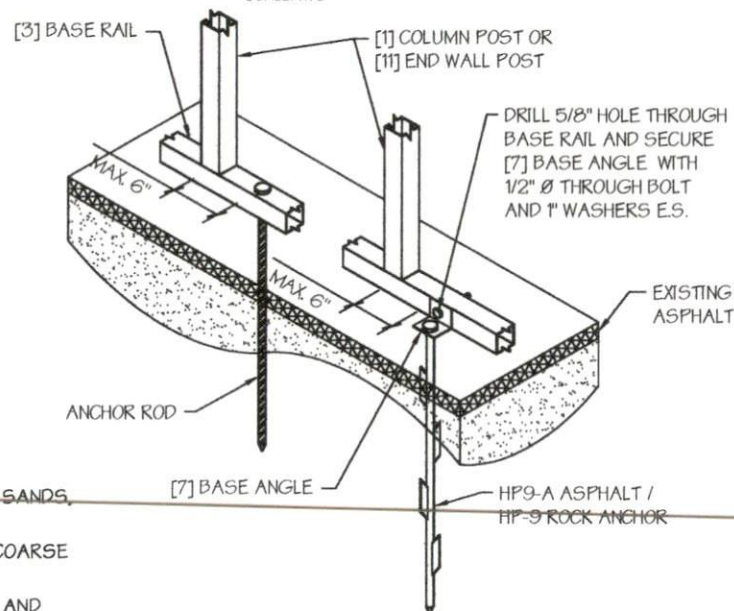
SOIL CLASSIFICATIONS:

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLES, PRELOADED SILTS, CLAYS AND CORAL.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

"FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS"



SOIL FOUNDATION
SCALE: NTS



☒ **OPTION 2: ROCK / ASPHALT ANCHORS**
SCALE: NTS

MANUFACTURED BY:



ENGINEERED BY:



DRAWING INFORMATION

PROJECT: 24' WIDE
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-25-0321
SHEET TITLE:
FOUNDATION OPTION 4:
SOIL ANCHORS
SHEET NO.: 11-D / 11

CHECKED BY: OAA DATE: 1/25/24

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