



REGULAR / A-FRAME 20'-0" WIDE CARPORT STYLE BUILDINGS

DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2015, OSHA, AISC 360, AISI 100, ASCE 7-10, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 X 3/4" SDS (ESR-2196 OR EQ) WITHOUT WASHERS.
- STEEL SHEATHING SHALL BE 29GA CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ. CONNECTIONS SHALL BE #12-14 X 3/4" SDS (ESR-2196 OR EQ) WITH NEOPRENE WASHERS.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL (FY = 50 KSI, FU = 65 KSI).
- STRUCTURAL TUBE 2 1/2" X 2 1/2" - 14GA. IS EQUIVALENT TO TS 2 1/2" X 2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA.
- 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: NCBC 2018 (IBC 2015)
 USE GROUP: U (CARPORTS, BARNs)
 RISK CATEGORY: I
- | | |
|------------------------------------|--|
| 1. ROOF 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) | Pg = 20 - 90 PSF |
| GROUND SNOW LOAD 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 | VULT = 105 - 180 MPH |
| EXPOSURE | C |
| 5. SEISMIC LOAD (E) | D |
| DESIGN CATEGORY | |
| IMPORTANCE FACTOR | Ic = 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)

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Omar Abu-Yasein

Digitally signed by Omar Abu-Yasein
 Date: 2022.07.21 07:57:04 +03'00'

MANUFACTURED BY:



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DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
 LOCATION: STATE OF NORTH CAROLINA
 PROJECT NO.: 325-22-2224
 SHEET TITLE: COVER SHEET
 SHEET NO.: 1 / 11
 DRAWN BY: AW DATE: 7/18/22
 CHECKED BY: OAA DATE: 7/18/22

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:



CUSTOMER INFORMATION	DESIGN LOADS	BUILDING INFORMATION	CERTIFICATION VALIDITY NOTICE
OWNER: Daniel Posey ADDRESS: 516 Cabin Creek Ln Cameron, NC 28326	GROUND SNOW: 30 psf ROOF LIVE LOAD: 20 psf BASIC WIND SPEED: 115 mph	WIDTH: 20' LENGTH: 30' HEIGHT: 12'	FRAME TYPE: <input checked="" type="checkbox"/> A-FRAME <input type="checkbox"/> REGULAR ENCLOSURE TYPE: <input checked="" type="checkbox"/> FULL <input type="checkbox"/> PARTIAL <input type="checkbox"/> OPEN DATE OF PLANS EXPIRATION: 07-20-2023 CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

DATE EXPIRES: **12-31-2022**
 DATE SIGNED: **07-20-2022**

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" X 14GA CHANNEL	4
5	KNEE BRACES	2.5" X 1.5" X 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" X 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	

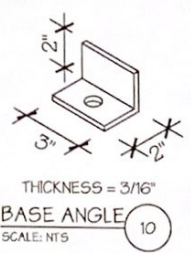
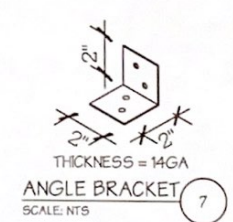
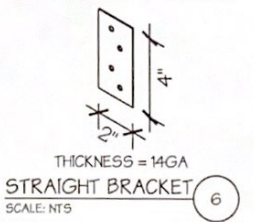
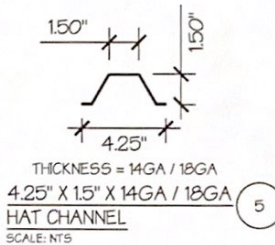
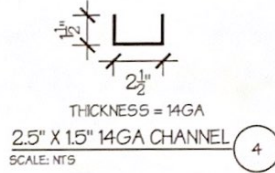
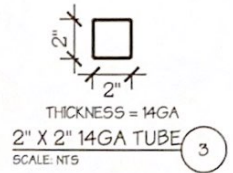
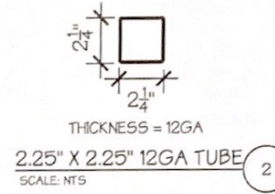
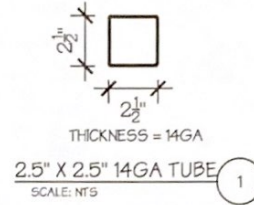
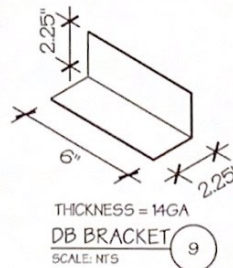
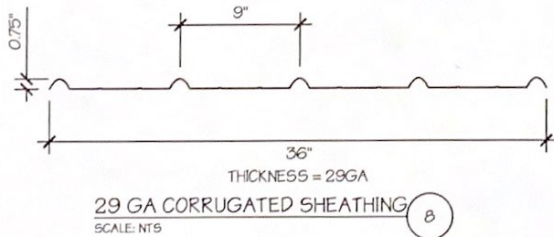
TABLE 2.2: SHEATHING FASTENER SCHEDULE

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



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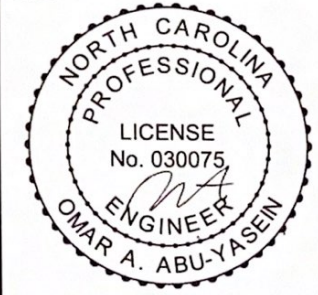
DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
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 SHEET NO.: 2 / 11
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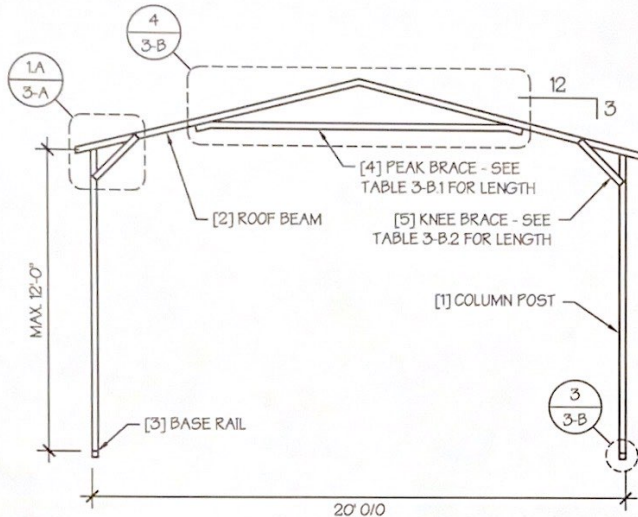
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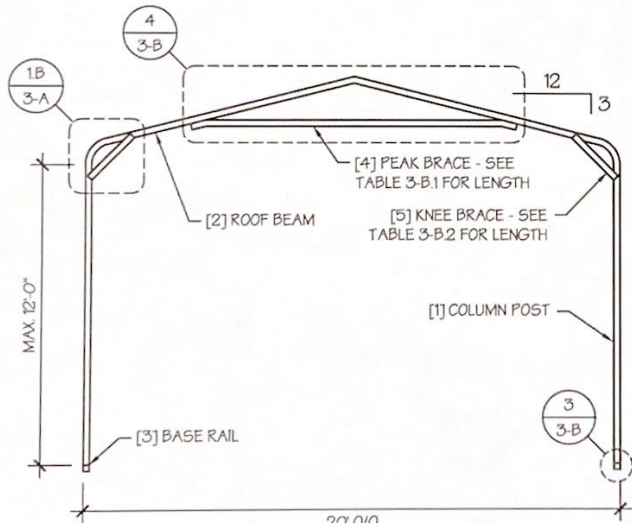
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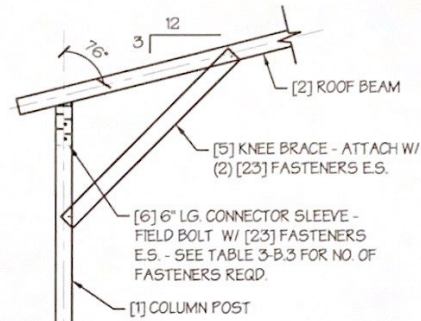
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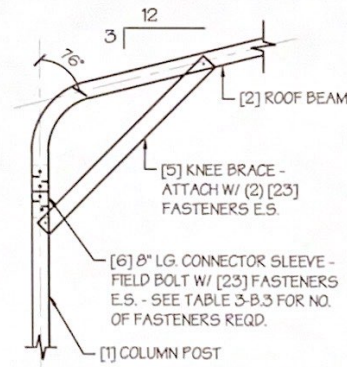
TYP. A-FRAME SECTION
SCALE: NTS



TYP. REGULAR FRAME SECTION
SCALE: NTS



A. 'A'-FRAME



B. REGULAR-FRAME

EAVE DETAIL
SCALE: NTS

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HERITAGE
CARPORTS

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SHEET TITLE:

FRAME SECTIONS &
DETAILS

SHEET NO.: 3-A / 11

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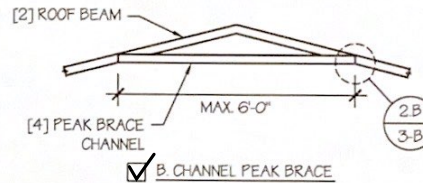
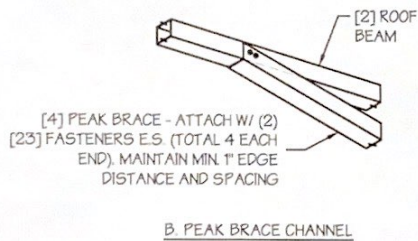
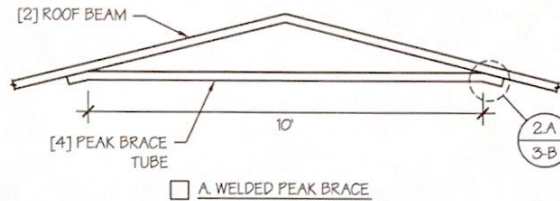
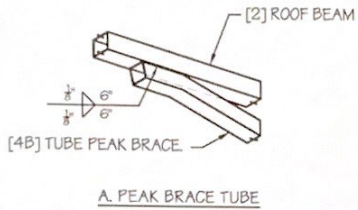
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PEAK BRACE DETAILS 4
SCALE: NTS

PEAK BRACE CONNECTION DETAILS 2
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'

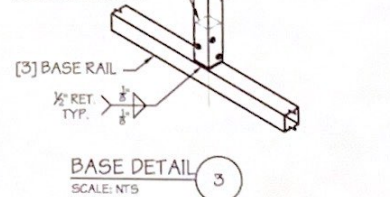
TABLE 3-B.2: KNEE BRACE SCHEDULE

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

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



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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FRAME DETAILS

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TABLE 4: FRAME SPACING CHART / SCHEDULE

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
30 / 20	60	60	54/60	54	42	36	36	60	54/60	48/60	42/54	36/42	36	36
40 / 27	48/60	48/60	42/60	42/54	42	36	36	48	48	42/48	42/48	36/42	36	36
50 / 34	40/48	40/48	40/48	40/48	40/42	36	36	40/42	40/42	40/42	40/42	36/42	36	36
60 / 41	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	36	36	36
70 / 47	32/36	32/36	32/36	32/36	32/36	32/36	30	30	30	30	30	30	30	30
80 / 54	30	30	30	30	30	30	30	24	24	24	24	24	24	24
90 / 61	24	24	24	24	24	24	24	18	18	18	18	18	18	18
30 / 20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/48	36/42
40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	48/54	48/54	42/54	42/54	36/48	36/48	36/42
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	36/42	36/42
60 / 41	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36	36	36	36	36	36	36
70 / 47	32/36	32/36	32/36	32/36	32/36	32/36	32/36	30	30	30	30	30	30	30
80 / 54	30	30	30	30	30	30	30	30	30	30	30	30	30	30
90 / 61	24	24	24	24	24	24	24	24	24	24	24	24	24	24
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70 / 47	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36	32/36
80 / 54	30	30	30	30	30	30	30	30	30	30	30	30	30	30
90 / 61	24	24	24	24	24	24	24	24	24	24	24	24	24	24

NOTES:

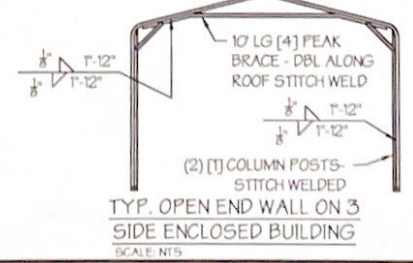
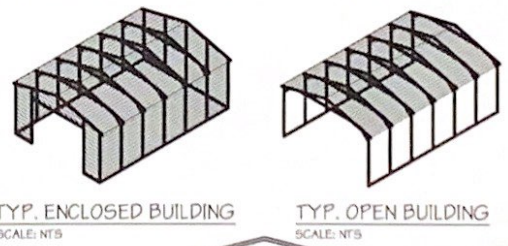
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER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

ENCLOSURE CLASSIFICATION:

- ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
- 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".
- 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.
- FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.

GENERAL NOTES:

- 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.
- 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).
- ALL BUILDINGS WITH AN OPEN END WALL MUST HAVE A 10'-0" TUBE PEAK BRACE.



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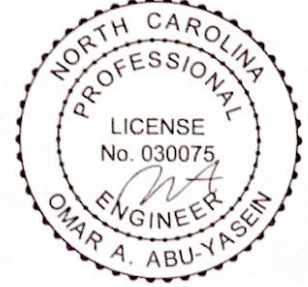
DRAWING INFORMATION

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LOCATION: STATE OF NORTH CAROLINA
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TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	14GA. HAT CHANNEL PURLIN								12GA. HAT CHANNEL PURLIN																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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NOTES:

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

IRREGULAR BUILDING NOTES:

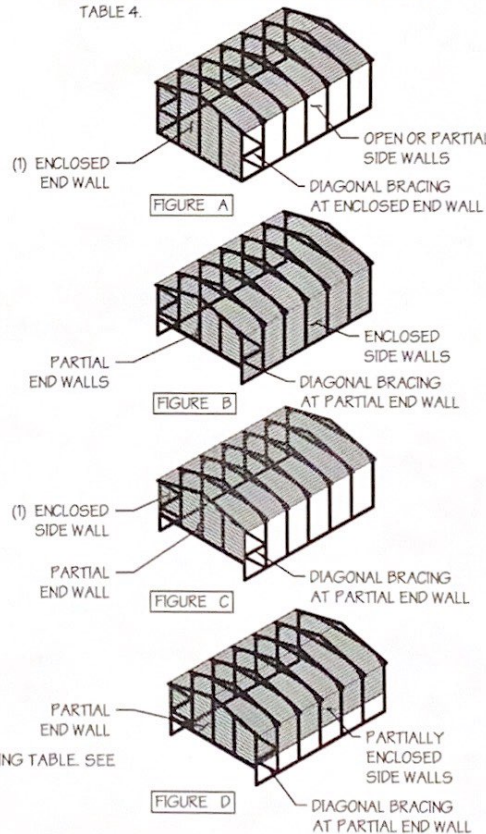
- FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
- FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 12" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
- SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
- IRREGULAR BUILDING & BUILDINGS W/ MORE 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 GIRTS.
- FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.



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DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE:

PURLIN & GIRT SPACING SCHEDULES

SHEET NO.: 5 / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

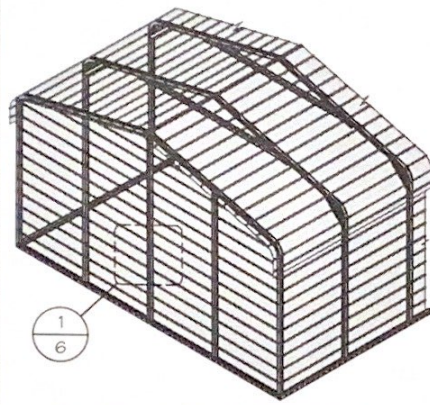
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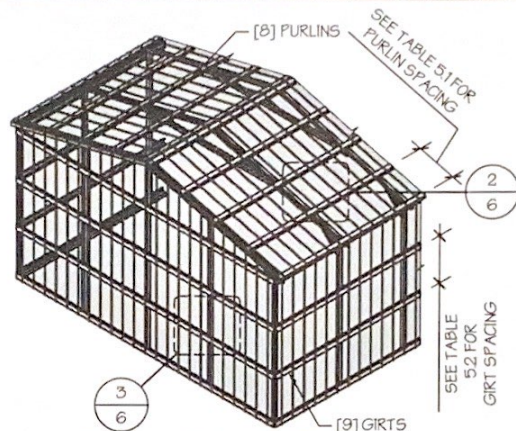
SEAL:



DATE EXPIRES: 12-31-2022
DATE SIGNED: 07-20-2022



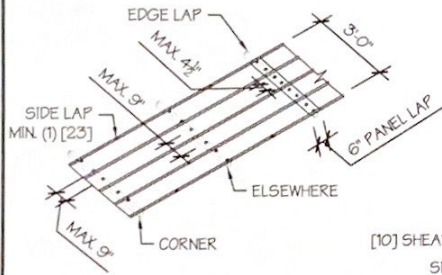
TYP. HORIZONTAL SHEATHING
SCALE: NTS



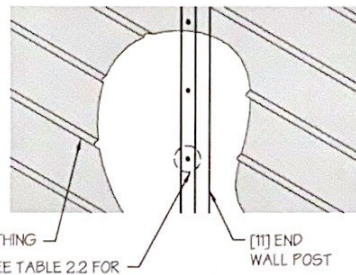
TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

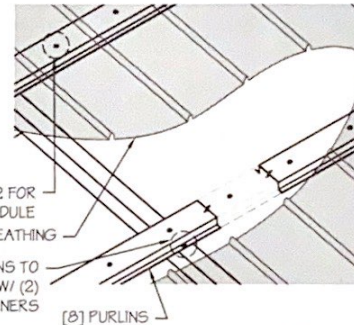
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW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



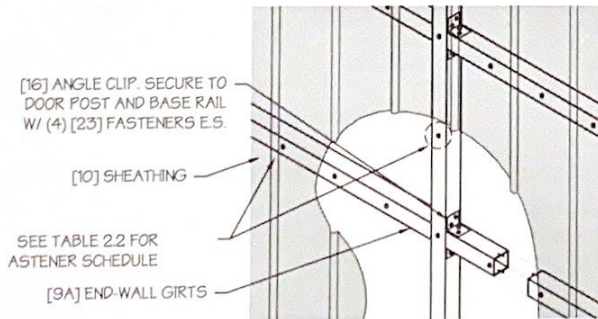
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



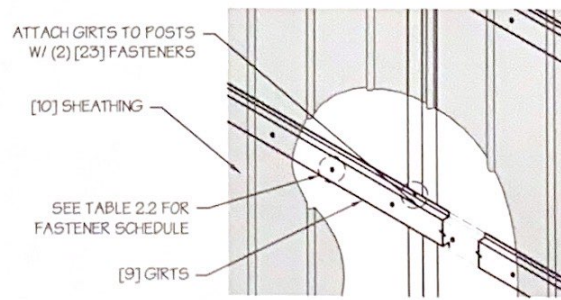
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



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: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE: SHEATHING OPTIONS & DETAILS

SHEET NO.: 6 / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

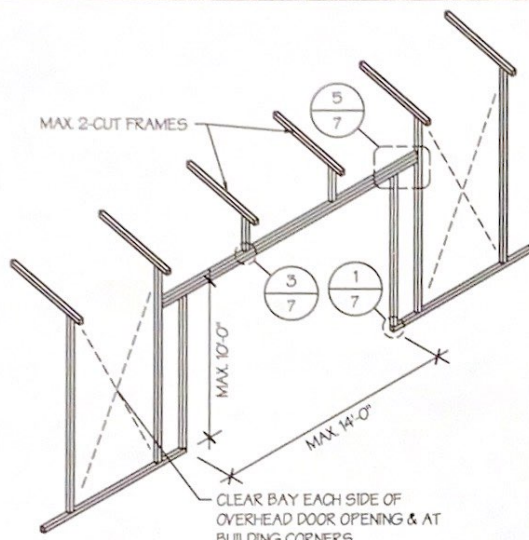
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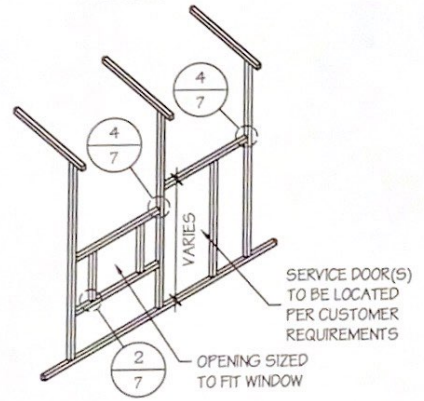
SEAL:



DATE EXPIRES: 12-31-2022
DATE SIGNED: 07-20-2022



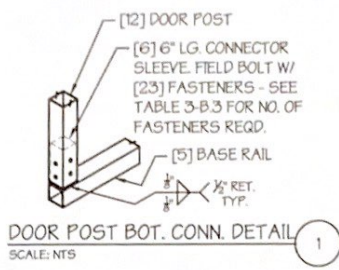
☐ SIDE WALL OVERHEAD DOOR OPENINGS
SCALE: NTS



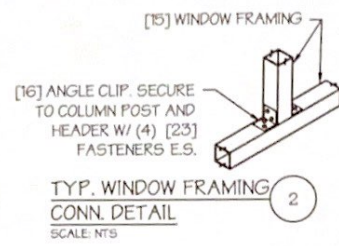
☑ SIDE WALL SERVICE DOOR / WINDOW OPENINGS
SCALE: NTS

SIDE WALL FRAMING NOTES:

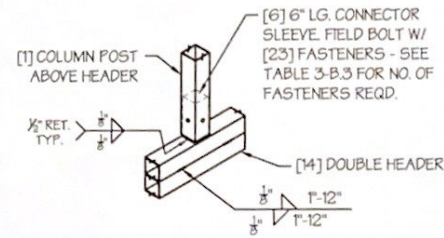
1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
3. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
4. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY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



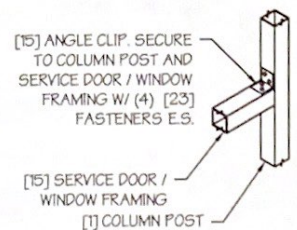
DOOR POST BOT. CONN. DETAIL 1
SCALE: NTS



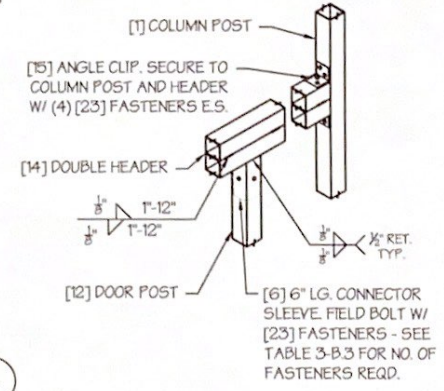
TYP. WINDOW FRAMING CONN. DETAIL 2
SCALE: NTS



COLUMN POST ABOVE DOOR HEADER CONN. DETAIL 3
SCALE: NTS



TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL 4
SCALE: NTS



COLUMN POST ABOVE DOOR HEADER CONN. DETAIL 5
SCALE: NTS

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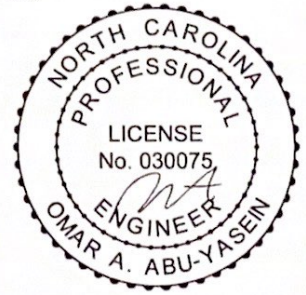
DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE: SIDE WALL FRAMING & OPENINGS
SHEET NO.: 7 / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

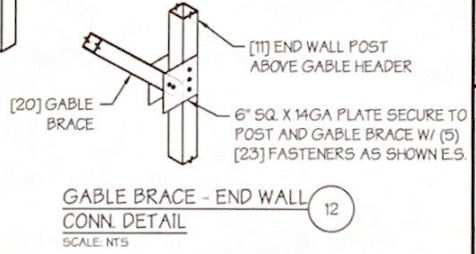
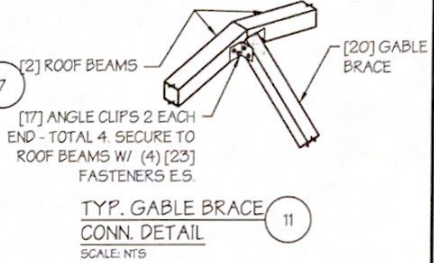
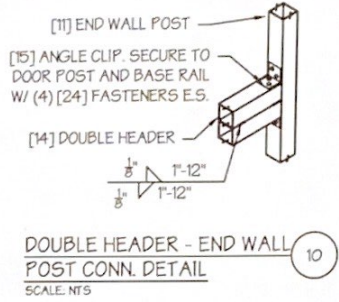
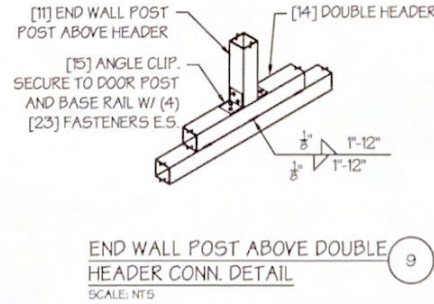
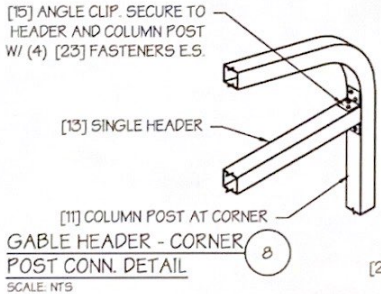
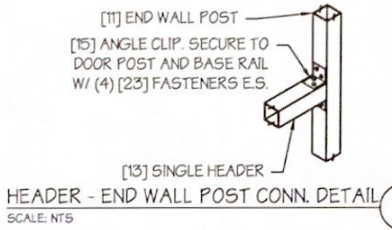
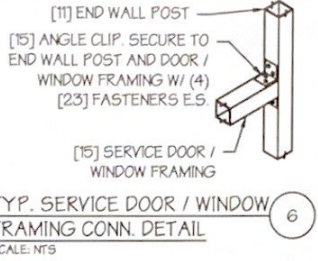
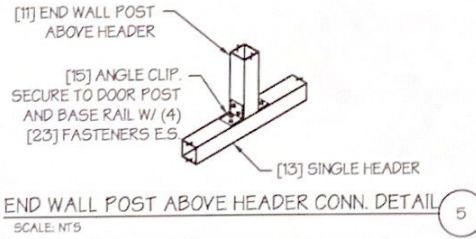
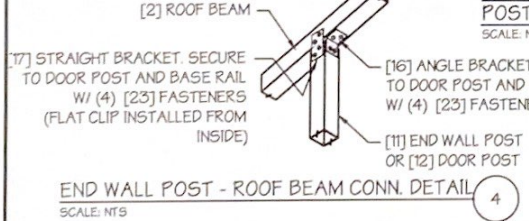
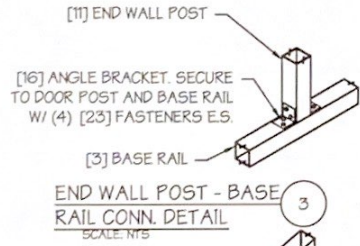
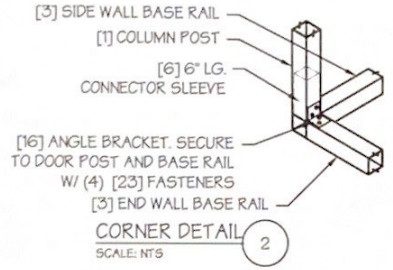
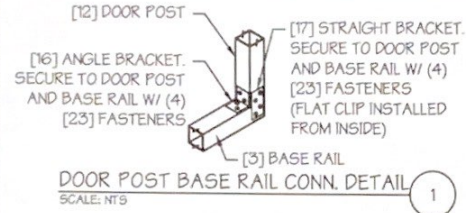
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SEAL:



DATE EXPIRES: 12-31-2022
DATE SIGNED: 07-20-2022



MANUFACTURED BY:



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Cell: (704) 223-2117

DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE: END WALL FRAMING DETAILS

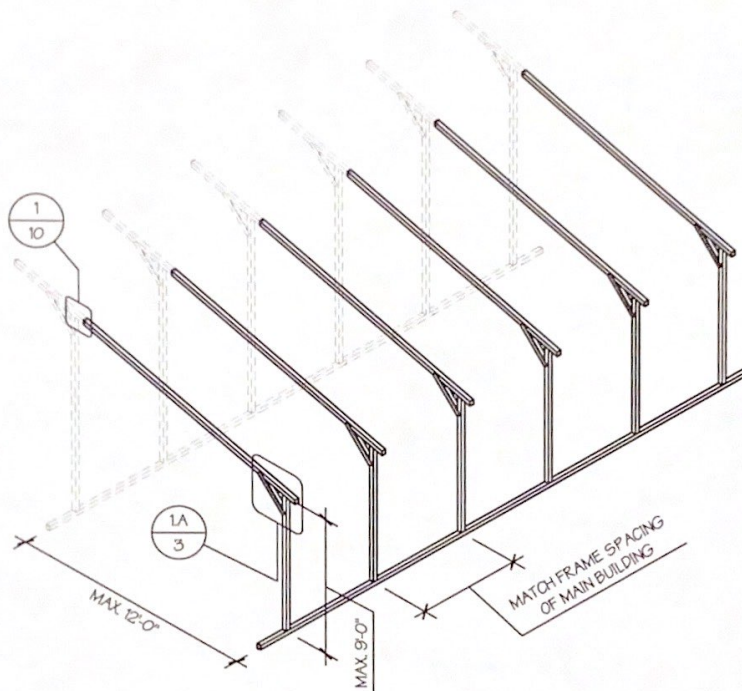
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DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

LEGAL INFORMATION

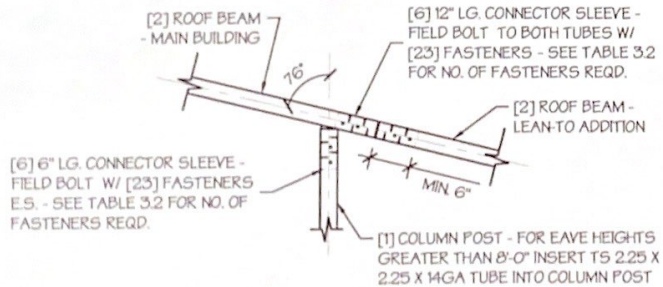
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DATE EXPIRES: 12-31-2022
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OPTIONAL LEAN-TO ADDITION
SCALE: NTS



LEAN-TO ATTACHMENT DETAIL 1
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:



**HERITAGE
CARPORTS**

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DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE:
**OPTIONAL LEAN-TO
ADDITION**
SHEET NO.: 10 / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

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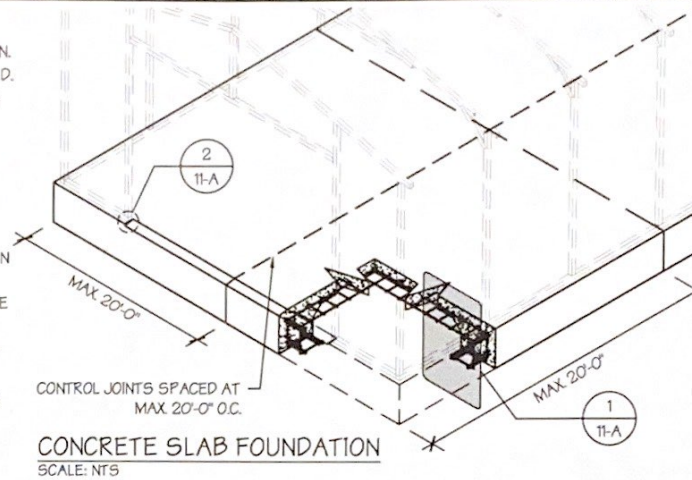


DATE EXPIRES: **12-31-2022**

DATE SIGNED: **07-20-2022**

CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 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.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $5\frac{1}{2}$ " FOR 14GA MATERIAL AND $5\frac{3}{8}$ " FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.



MANUFACTURED BY:



3870 Statesville Blvd
Salisbury, NC 28147
Office: (704) 431-4097
Cell: (704) 223-2117

DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE:
**FOUNDATION OPTION 1:
CONCRETE SLAB**
SHEET NO.: 11-A / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

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:



DATE EXPIRES: 12-31-2022

DATE SIGNED: 07-20-2022

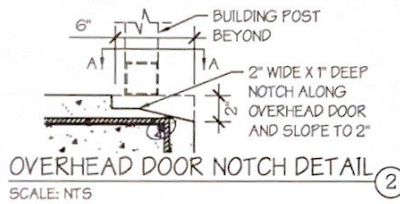


TABLE 11-A.1: NOTCH WIDTH

HORIZONTAL/OPEN		VERTICAL	
<input checked="" type="checkbox"/> 14GA	<input type="checkbox"/> 12GA	<input type="checkbox"/> 14GA	<input type="checkbox"/> 12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

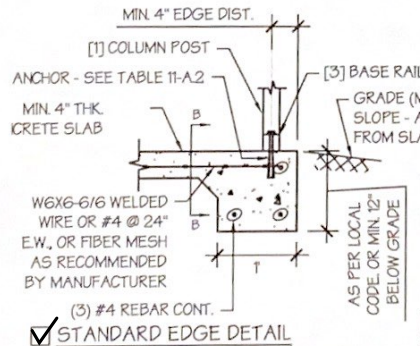
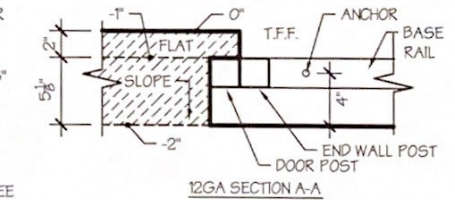
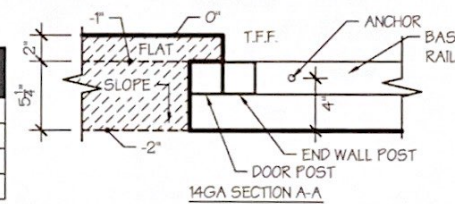
NOTE: DEPTH IS TO BE 1 1/2"

TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

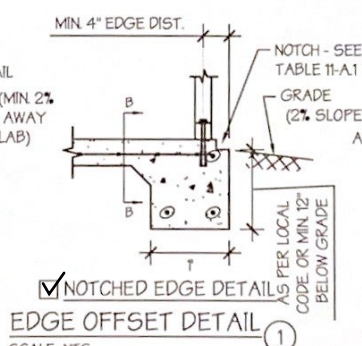
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	<input type="checkbox"/> 105 TO 135	(1) 1/2" Ø X 7"
	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø X 7"
OPEN	<input checked="" type="checkbox"/> 105 TO 135	(1) 1/2" Ø X 7"
	<input type="checkbox"/> 136 TO 180	(2) 1/2" Ø X 7"

NOTES:

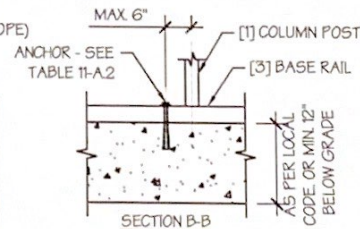
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 2 1/2".
- ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



STANDARD EDGE DETAIL



NOTCHED EDGE DETAIL



SECTION B-B

SCALE: NTS

CONCRETE SLAB FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 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.
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.1.
- THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 1/2" FOR 14GA MATERIAL AND 1" FOR 12GA MATERIAL.
- DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
- CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.

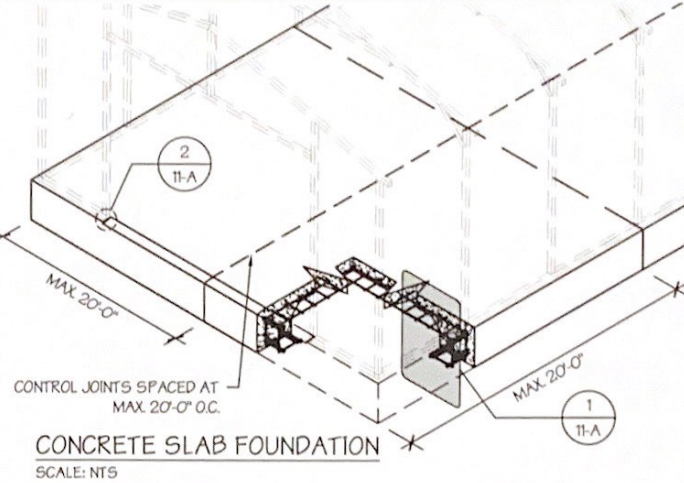
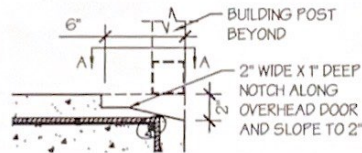


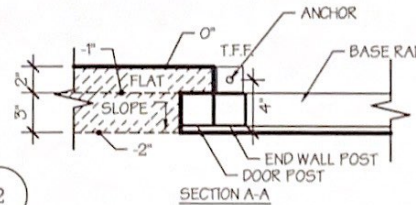
TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

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"

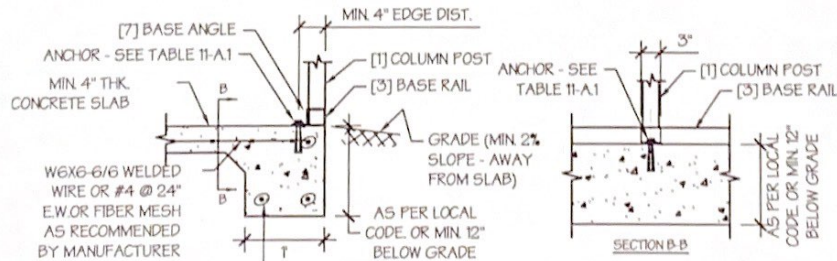
- NOTES:**
- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
 - MIN. EMBEDMENT DEPTH TO BE 2 1/2".
 - ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



OVERHEAD DOOR NOTCH DETAIL
SCALE: NTS



SECTION A-A



EDGE FLUSH DETAIL
SCALE: NTS

MANUFACTURED BY:



3870 Statesville Blvd
Salisbury, NC 28147
Office: (704) 431-4097
Cell: (704) 223-2117

DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 325-22-2224

SHEET TITLE:

**FOUNDATION OPTION 1:
CONCRETE SLAB**

SHEET NO.: 11-A / 11

DRAWN BY: AW DATE: 7/18/22

CHECKED BY: OAA DATE: 7/18/22

LEGAL INFORMATION

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SEAL:



DATE EXPIRES: 12-31-2022

DATE SIGNED: 07-20-2022

DESIGN PROFESSIONAL INSPECTION FORM

RECORD OF THE INSPECTION OF A COMPONENT OR ELEMENT BY A NC LICENSED ARCHITECT OR ENGINEER

Project Information:

Residential Single-Family Project: Y N	Commercial Project: Y N
Code Enforcement Project No:	Permit No:
Project Name: 516 Cabin Creek Inspection	Owner:
Project Address: 516 Cabin Creek Ln.	Suite No:
Date Inspected: 04/26/2023	Contractor Name:
Component Inspected: Concrete Slab	

Responsible Licensed NC Architect or NC Engineer

Name:	Dr. Charles R. Farwell Jr.
Firm Name:	Seven Lakes Engineering Services Inc.
Phone Numbers:	Office: 910-638-0965 Mobile: 910-638-9110
Email Address:	7lakesengrg@gmail.com
Mailing Address:	204 E. Main St. Aberdeen, NC 28315

APPLICABLE CODE: 2018 NCRC

2018 NCBC = 2018 NC Building Code; 2018 NCRC = 2018 NC Residential Code

Describe Element/Component/Type of Inspection: *Seven Lakes Engineering Services (SLES)

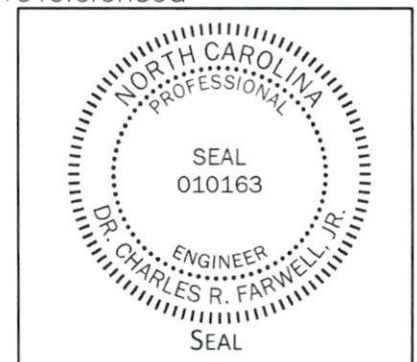
Inspected the construction of the concrete slab of the metal building located at the
subject property. SLES did not note any abnormalities with the construction of the
4" concrete slab.

*(subgrade form/letter may also be required)

Attestation/Signature:

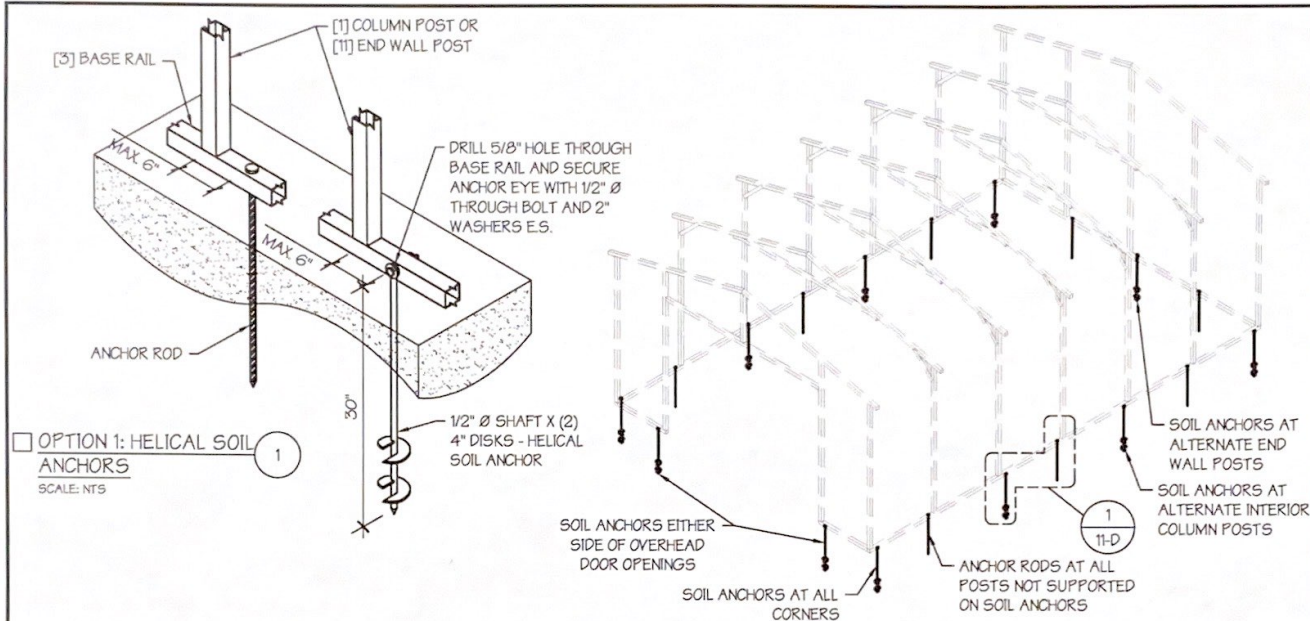
By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per subsection (b2) of NC G.S. 153A-352 and is in compliance with the Code or other proposal of the architect or engineer for the project. This inspection is in compliance with all of the requirements of the above referenced Code. Attach any additional documents if needed.

Charles R. Farwell, Jr.
Licensed Architect or Engineer



Inspection Department disclaimer:

Upon the receipt of a signed written document as required under subsection (a) of Article 160A-413.5., Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.



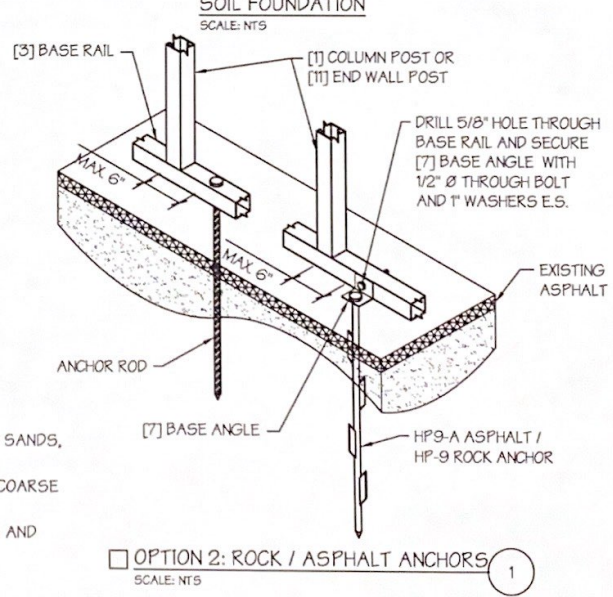
SOIL FOUNDATION NOTES:

- 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"



MANUFACTURED BY:



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Salisbury, NC 28147
Office: (704) 431-4097
Cell: (704) 223-2117

DRAWING INFORMATION

PROJECT: 20'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 325-22-2224
SHEET TITLE:

**FOUNDATION OPTION 4:
SOIL ANCHORS**

SHEET NO.: 11-D / 11
DRAWN BY: AW DATE: 7/18/22
CHECKED BY: OAA DATE: 7/18/22

LEGAL INFORMATION

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SEAL:



DATE EXPIRES: 12-31-2022
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