

22'-0" WIDE CARPORT STYLE BUILDINGS

DESIGN NOTES

OWNER:

ADDRESS:

- 1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, OSHA, AISC 360, AISI 100, ASCE 7-16, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- 2. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- 3. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- 4. ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 X 3/4" SDS (ESR-2196 OR EQ) WITHOUT WASHERS.
- 5. 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.
- 6. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL (FY = 50 KSI, FU = 65 KSI).
- 7. STRUCTURAL TUBE 2 1/2" X 2 1/2" 14GA. IS EQUIVALENT TO TS 2 1/2" X 2 1/2" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- 8. GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA.
- 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: MBC 2015 (IBC 2015) USE GROUP: U (CARPORTS, BARNS) RISK CATEGORY:

- ROOF DEAD LOAD (D) D = 4 PSFROOF LIVE/SNOW LOAD (Lr)
 - Lr = 20 61 PSF(AS PER SNOW LOAD SEE TABLE 4)
- SNOW LOAD (S) GROUND SNOW LOAD Pa = 20 - 90 PSF IMPORTANCE FACTOR Is = 0.8 THERMAL FACTOR Ct = 1.2EXPOSURE FACTOR Ce = 1.0ROOF SLOPE FACTOR Cs = 1.0
- WIND LOAD (W) V_{ULT} = 105 - 180 MPH BASIC WIND SPEED **EXPOSURE**
 - SEISMIC LOAD (E) DESIGN CATEGORY IMPORTANCE FACTOR Ie = 1.00

LOAD COMBINATIONS:

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

HEIGHT:

 $0.6D + (0.6W OR \pm 0.7E)$

DRAWING INDEX

COVER SHEET

SCHEDULES & MEMBER -SECTIONS 3-A, 3-B FRAME SECTIONS & DETAILS ----SPACING SCHEDULES -

- & ENCLOSURE NOTES 5 PURLIN & GIRT SCHEDULES SHEATHING OPTIONS 6 SIDE WALL FRAMING
- & OPENINGS 7-A, 7-B END WALL FRAMING
- & OPENINGS 8-A, 8-B CORNER BRACING DETAILS OPTIONAL LEAN-TO ADDITION
- FOUNDATION OPTIONS ----- 11-A TO 11-D

DATE OF PLANS

MANUFACTURED BY:

STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

COVER SHEET

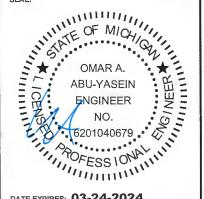
1 / 11 SHEET NO .:

DRAWN BY: AW DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

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 VAUD UP TO 1 YEAR FROM DATE OF ISSUE.



DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022

	in the second			 -
CHS	TOME	RINFORM	ATION	

GROUND SNOW: WIDTH: ROOF LIVE LOAD: LENGTH:

DESIGN LOADS

BASIC WIND SPEED:

A-FRAME FRAME TYPE: ☐ REGULAR **ENCLOSURE**

BUILDING INFORMATION

FULL. PARTIAL. □ OPEN

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

05-20-2023

CERTIFICATION VALIDITY NOTICE

TABLE 21. MEMBER PROPERTIES

	1 ADLE 2.1: 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

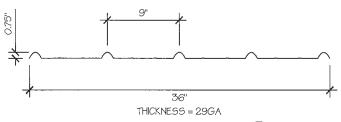
LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MiN. 1	4½" C/C	9" C/C

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

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

TABLE 23. GAUGE THICKNESS

TAPEL 2.0. OAGOE THIORIESS										
GAUGE	29	18	14	12						
THICKNESS (IN)	0.0135	0.049	0.083	0.109						



29 GA CORRUGATED SHEATHING, SCALE: NTS

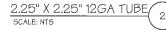


THICKNESS = 14GA





THICKNESS = 12GA



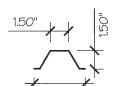


THICKNESS = 14GA





THICKNESS = 14GA 2.5" X 1.5" 14GA CHANNEL



SCALE: NTS

THICKNESS = 14GA / 18GA 4.25" X 1.5" X 14GA / 18GA

HAT CHANNEL SCALE: NTS



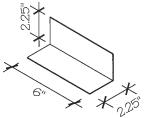
THICKNESS = 14GA

STRAIGHT BRACKET SCALE: NTS



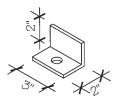
THICKNESS = 14GA

ANGLE BRACKET SCALE: NTS



THICKNESS = 14GA

DB BRACKET SCALE: NTS



THICKNESS = 3/16"

BASE ANGLE SCALE: NTS

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

2 / 11 SHEET NO .:

DRAWN BY: AW

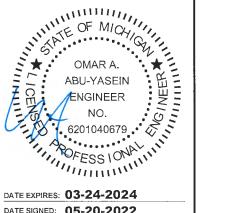
DATE: 5/17/22

CHECKED BY: OAA

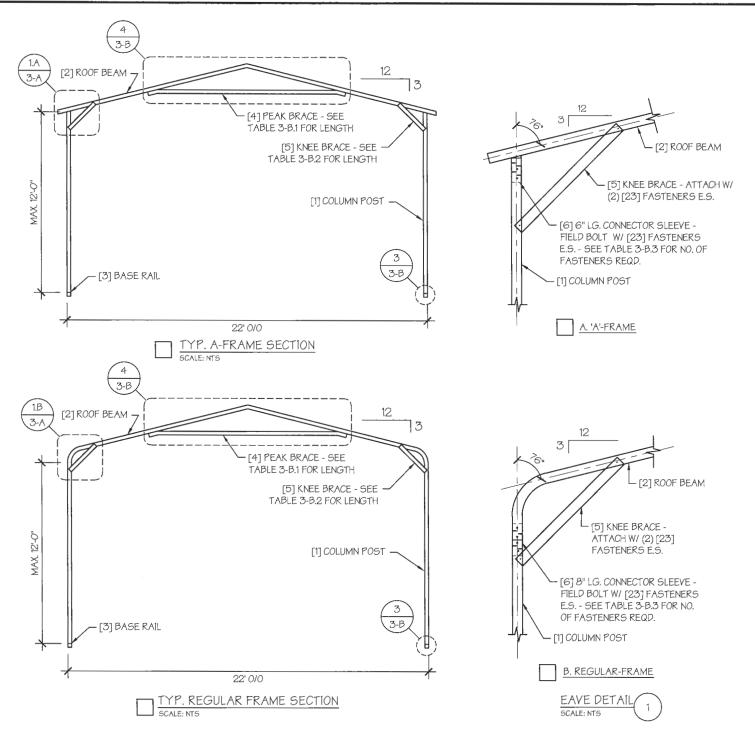
DATE: 5/17/22

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DATE EXPIRES: 03-24-2024



MANUFACTURED BY:

STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FRAME SECTIONS & DETAILS

SHEET NO.: 3-A / 11

DRAWN BY: AW

DATE: 5/17/22

CHECKED BY: OAA

DATE: 5/17/22

LEGAL INFORMATION

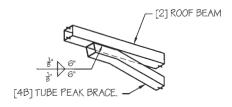
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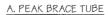
SEAL:

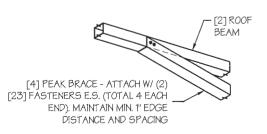
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EINGINEER
NO.
62:01040679

DATE EXPIRES: **03-24-2024**







B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS, SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

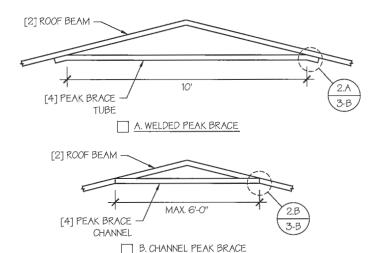
GROUND SNOW / ROOF	WIND SI	PEED PEED
LIVE LOAD (PSF)	□105 TO 130	□140 TO 180
□ 30 / 20	6'	10'
□ 35 / 25 TO 90 / 61	10'	10'

TABLE 3-B.2: KNEE BRACE SCHEDULE

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

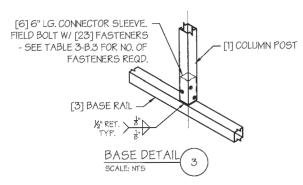
TABLE 3-B.3 FASTENER SCHEDULE

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



PEAK BRACE DETAILS

SCALE: NTS



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

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

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PROJECT NO.: 451-22-1572

SHEET TITLE:

FRAME DETAILS

3-B / 11 SHEET NO .:

DRAWN BY: AW

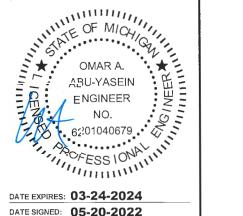
DATE: 5/17/22

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DATE EXPIRES: 03-24-2024

TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND		3	■ ENCLO	SED BUIL	DINGS					■ OPE	N BUILDI	NGS		
	SNOW / ROOF LIVE			WIND	SPEED (N	1PH)					WIND	SPEED (N	MPH)		
	LOAD (PSF)	□105	□ 115	□130	□140	□155	□165	 □180	□105	□ 115	□130	□140	□155	□165	□180
	□30/20	60	60	54/60	54	42	36	30	48	48	48	42/48	36/42	36	30
HEIGHT = TO 12'-0"	□ 40 / 27	48/60	48/60	42/60	42/54	42	36	30	42	42	42	42	36/42	36	30
至2	□50/34	40/48	40/48	40/48	40/48	40/48	36	30	36	30	30	30	30	30	30
単ら	□ 60 / 41	36	36	36	36	36	36	30	30	30	30	30	30	30	30
ΑĠ	70/47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
EAVE 10'-0"	□ <i>8</i> 0/54	24	24	24	24	24	24	24	24	18	18	18	18	18	18
	90/61	24	24	24	24	24	24	24							
	30/20	60	60	54/60	54	48	42/48	36	54	54	48/54	42/54	36/48	36/42	36
GHT =	□40/27	48/60	48/60	42/60	42/54	42/48	42/48	36	42	42	42	42	36/42	36/42	36
7.0	□50/34	40/48	40/48	40/48	40/48	40/48	40/48	36	36	36	36	36	36	36	36
필요	□ 60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
回り	70/47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
EAVE 7'-O"	□80/54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	90/61	24	24	24	24	24	24	24							
	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	48/54	48/54	42/54	42/54	36/48	36/42	36
光さ	□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
HEIGHT TO 6-0"	60/41	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Æ P T	□70/47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
EAVE UP 1	□ <i>80</i> / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	90/61	24	24	24	24	24	24	24	24	24	24	24	24	24	24

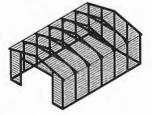
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- WHERE TWO VALUES ARE SHOWN. THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER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

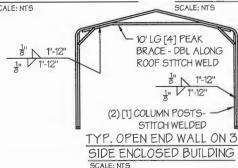
GENERAL NOTES:

- THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-O". 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'-O" TUBE PEAK BRACE.





TYP. OPEN BUILDING



MANUFACTURED BY:

STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SPACING SCHEDULES & ENCLOSURE NOTES

4 / 11 SHEET NO .:

DRAWN BY: AW

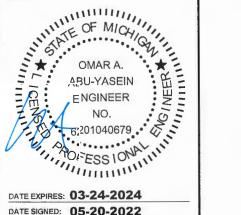
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DATE EXPIRES: 03-24-2024

TABLE 5.1: PURLIN SPACING SCHEDULE

	GROUND SNOW /		14GA	. HAT	CHAI	NNEL	PURL	.1N		18GA	. HAT	CHAI	NNEL	PURL	.IN
	ROOF LIVE		WIND SPEED (MPH)						WIND SPEED (MPH)						
	LOAD (PSF)	105	115	130	140	155	165	180	105	115	130	140	155	165	180
ii.	□ 30 / 20	54	48	42	36	30	24	24	36	30	24	18	18	12	12
ACING:	40/27	42	42	42	36	30	24	24	30	30	24	18	18	12	12
A	□ 50 / 34	40	40	40	36	30	24	24	24	24	24	18	18	12	12
5'-0'	□ 60 / 41	36	36	36	36	30	24	24	18	18	18	18	18	12	12
₹	0 70 / 47	32	32	32	32	30	24	24	18	18	18	18	18	12	12
FRAME	080/54	30	30	30	30	30	24	24	18	18	18	18	18	12	12
11.	□ 90 / 61	24	24	24	24	24	24	24	12	12	12	12	12	12	12
ii.	□ 30 / 20	54	48	42	42	36	30	30	48	36	30	24	18	18	12
CINO.	□ 40 / 27	42	42	42	42	36	30	30	42	36	30	24	18	18	12
\triangleleft	□ 50 / 34	40	40	40	40	36	30	30	30	30	30	24	18	18	12
E SP/	□ 60 / 41	36	36	36	36	36	30	30	30	30	30	24	18	18	12
FRAME	0 70 / 47	32	32	32	32	32	30	30	24	24	24	24	18	18	12
RA A	080/54	32	32	32	32	32	30	30	18	18	18	18	18	18	12
ш.	90/61	30	30	30	30	30	30	30	18	18	18	18	18	18	12
ii.	□ 30 / 20	54	48	42	42	36	36	30	54	48	36	30	24	24	18
ACING:	40 / 27	42	42	42	42	36	36	30	42	42	36	30	24	24	18
¥	□ 50 / 34	40	40	40	40	36	36	30	40	40	36	30	24	24	18
E SP.	60/41	36	36	36	36	36	36	30	36	36	36	30	24	24	18
FRAME	□ 70 / 47	32	32	32	32	32	32	30	30	30	30	30	24	24	18
NA A	□ <i>8</i> 0/54	32	32	32	32	32	32	30	24	24	24	24	24	24	18
Ш.	90/61	30	30	30	30	30	30	30	24	24	24	24	24	24	18
<i>ii</i> ;	30/20	54	48	42	42	36	36	30	54	48	42	42	36	30	30
ACING:	□ 40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	30	30
, AC	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	30	30
5.5P/	□ 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	30	30
FRAME	0 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	30	30
RA	□ 80 / 54	32	32	32	32	32	32	30	32	32	32	32	32	30	30
ш	90/61	30	30	30	30	30	30	30	30	30	30	30	30	30	30
.;;	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	36	30
ACING: OWER	0 40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	36	30
ACING	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	36	30
25 J	0 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	36	30
O P	0 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	32	30
FRAME 13-0" C	080/54	32	32	32	32	32	32	30	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30	30	30	30	30	30	30	30

- 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.
- 2. FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 12" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
- 3. 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

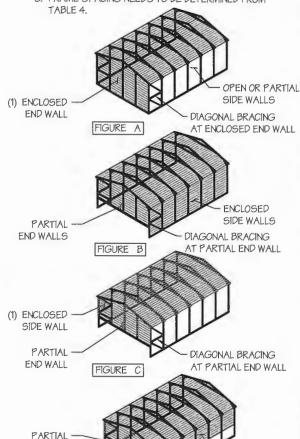
FRAME	WIND SPEED (MPH)										
SPACING	105	115	130	140	155	165	180				
□5'-O"	60	48	36	30	24	24	18				
□4'-6"	60	60	48	42	36	30	24				
□ 4'-O"	60	60	54	54	42	36	30				
□3'-6"	60	60	54	54	48	42	42				
□2'-0' TO 3'-0"	60	60	54	54	48	42	42				

NOTES:

END WALL

FIGURE D

- 1. GIRT SPACING UNITS ARE IN INCHES.
- 2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA AND 18 GA GIRTS.
- 3. FRAME SPACING NEEDS TO BE DETERMINED FROM



DRAWING INFORMATION

STEEL

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

PURLIN & GIRT SPACING SCHEDULES

5 / 11 SHEET NO .:

DRAWN BY: AW

MANUFACTURED BY:

DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

LEGAL INFORMATION

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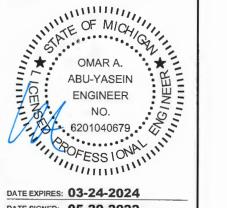
PARTIALLY

SIDE WALLS

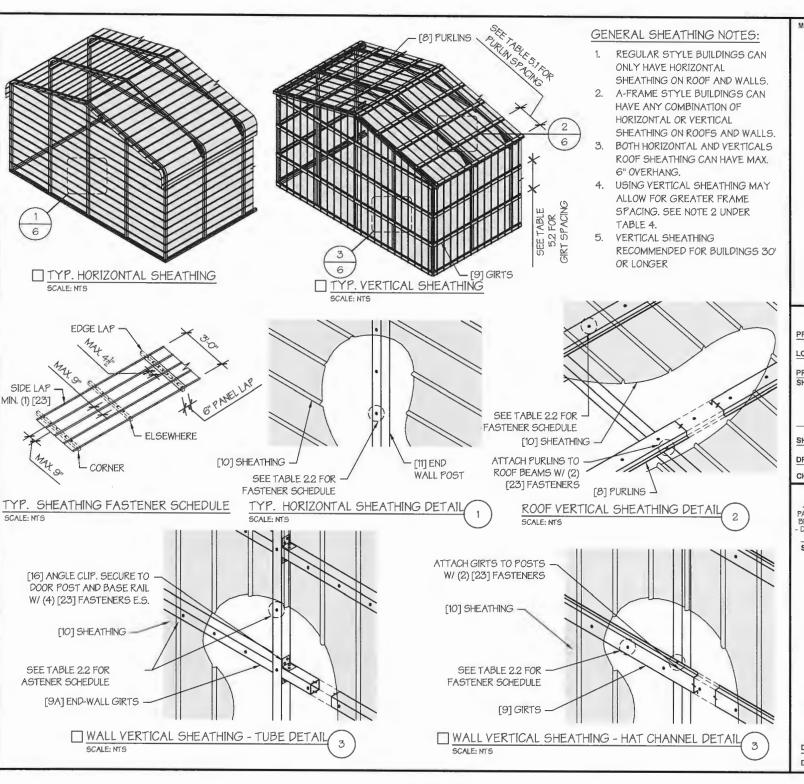
ENCLOSED

DIAGONAL BRACING

AT PARTIAL END WALL



DATE EXPIRES: 03-24-2024



MANUFACTURED BY:

NE STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SHEATHING OPTIONS & DETAILS

SHEET NO .:

6 / 11

DRAWN BY: AW

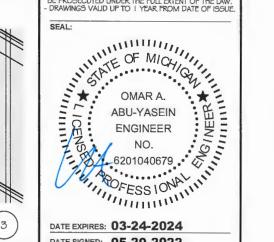
DATE: 5/17/22

CHECKED BY: OAA

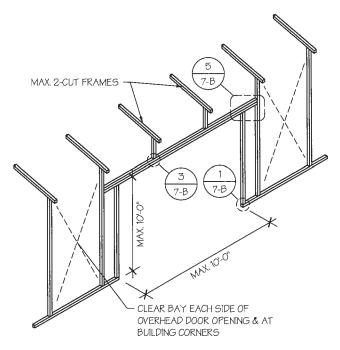
DATE: 5/17/22

LEGAL INFORMATION

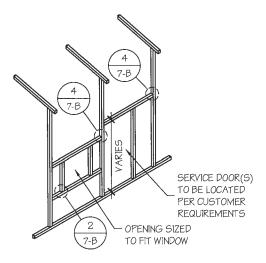
ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW. - DRAWINGS VALID UP TO I YEAR FROM DATE OF ISSUE.



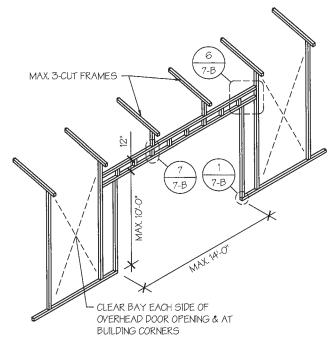
DATE EXPIRES: 03-24-2024



SIDE WALL OVERHEAD DOOR OPENINGS SCALE: NTS



SIDE WALL SERVICE DOOR / WINDOW OPENINGS SCALE: NTS



SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER 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:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SIDE WALL FRAMING & OPENINGS

7-A / 11 SHEET NO .:

DRAWN BY: AW DATE: 5/17/22

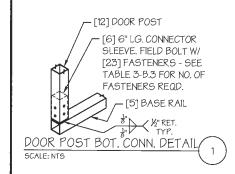
DATE: 5/17/22 CHECKED BY: OAA

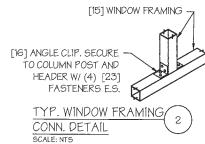
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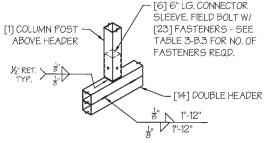
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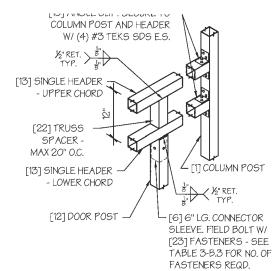
DATE EXPIRES: 03-24-2024



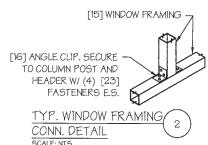


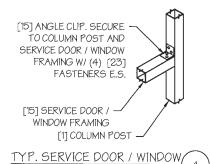






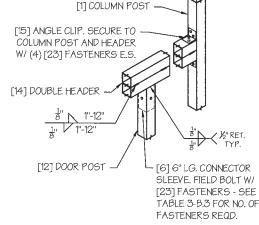
COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL SCALE: NTS



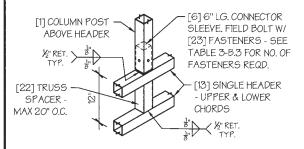


FRAMING CONN. DETAIL

SCALE: NTS



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



COLUMN POST ABOVE TRUSS, DOOR HEADER CONN. DETAIL SCALE: NTS



MANUFACTURED BY:

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SIDE WALL FRAMING DETAILS

7-B / 11 SHEET NO .:

DRAWN BY: AW

DATE: 5/17/22

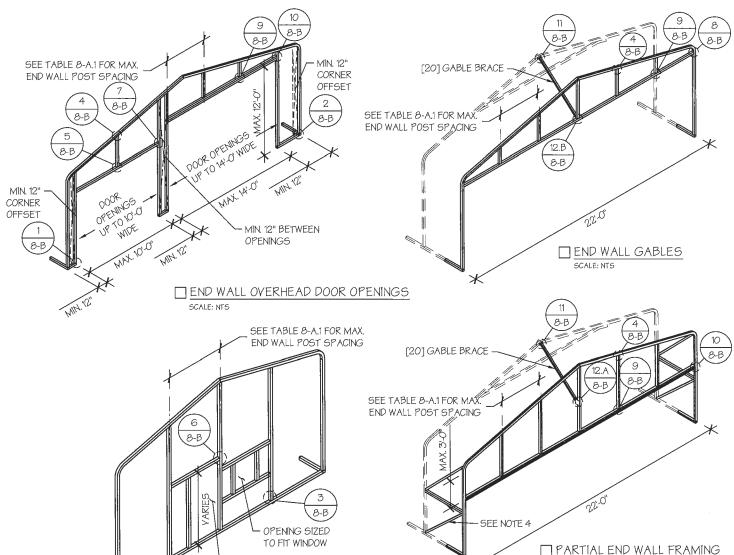
CHECKED BY: OAA DATE: 5/17/22

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DATE EXPIRES: 03-24-2024



REQUIREMENTS WIND SPEED TEND WALL SERVICE DOOR AND WINDOW OPENINGS (MPH) SCALE: NTS

END WALL FRAMING NOTES:

- 1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE
- 2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OF AND FROM CORNERS.

SERVICE DOOR(S) TO BE

LOCATED PER CUSTOMER

- 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.

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

END WALL FRAMING

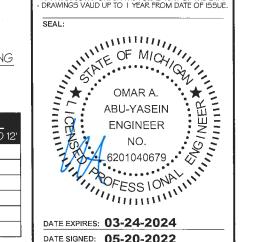
8-A / 11 SHEET NO .:

DATE: 5/17/22 DRAWN BY: AW

CHECKED BY: OAA DATE: 5/17/22

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TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.	
NY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR)	

155 4' 4' 2.5 DATE EXPIRES: 03-24-2024 165 - 180 3.5' 3' 2' DATE SIGNED: 05-20-2022

5'

4.5'

41

3'

SCALE: NTS

5

5'

4.5

4.5'

П 105

115

130

140

TABLE 8-A.1: END WALL POST

SPACING SCHEDULE

EAVE HEIGHT

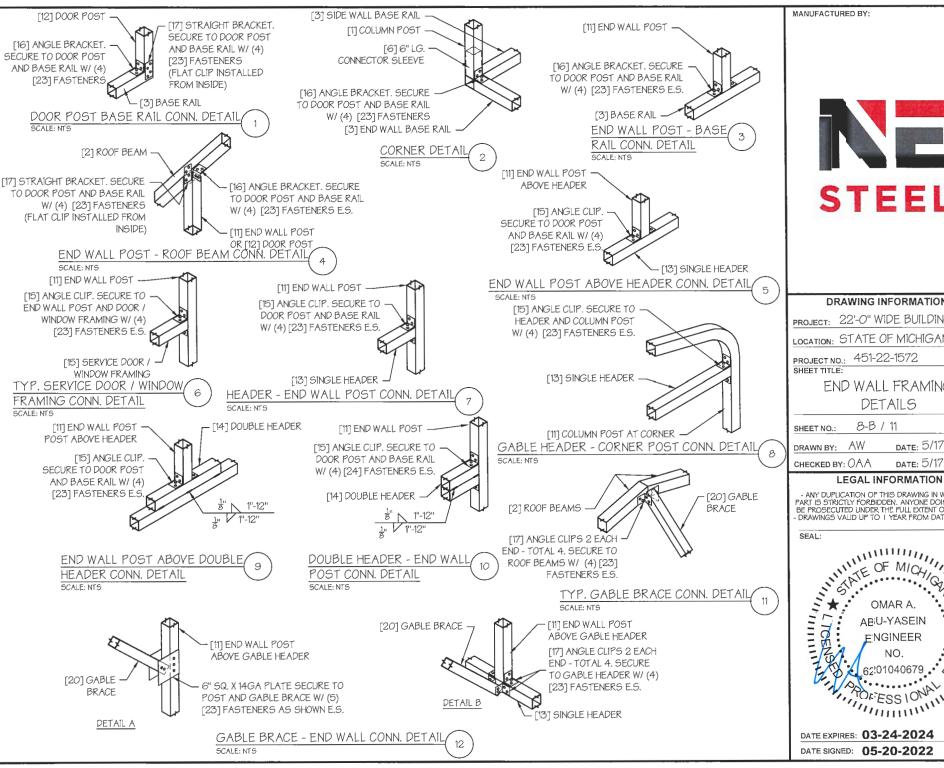
■ UP TO 7' ■ 8' TO 9' ■ 10' TO 12

5'

5

4.5

4.5



NE STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

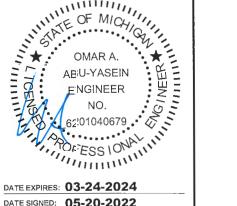
END WALL FRAMING DETAILS

DATE: 5/17/22

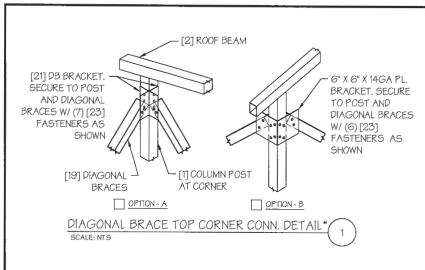
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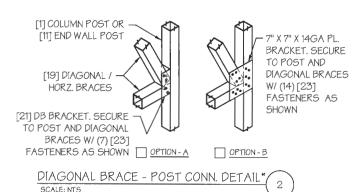
LEGAL INFORMATION

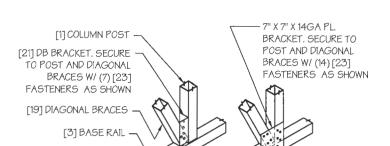
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DATE EXPIRES: 03-24-2024





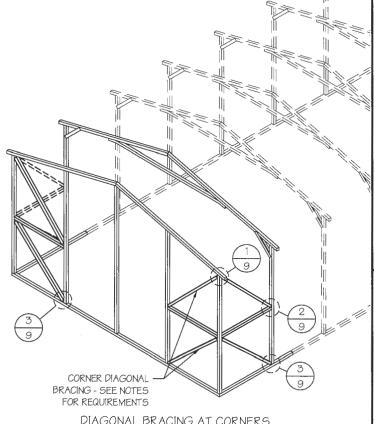


DIAGONAL BRACE BOT, CORNER CONN. DETAIL SCALE: NTS

OPTION - B

OPTION - A

* INSIDE VIEW SHOWN FOR CLARITY



DIAGONAL BRACING AT CORNERS SCALE: NTS

CORNER BRACING NOTES:

- DIAGONAL BRACING AT BUILDING CORNERS IS REQUIRED FOR ALL BUILDINGS IN LOCATIONS WHERE WIND SPEED IS 140 MPH OR GREATER.
 - FOR 3 SIDED ENCLOSED BUILDINGS 140 MPH OR GREATER WIND SPEED - THE BUILDING MUST BE DESIGNED WITH OPEN BUILDING SPACING AND DIAGONAL BRACING IS REQUIRED ON ALL ENCLOSED WALLS.
- 2. SIDE-WALL DIAGONAL BRACING IS REQUIRED WHEN THE ADJACENT END-WALL IS PARTIALLY ENCLOSED.
- 3. ALL BUILDINGS WITH IRREGULAR ENCLOSURE (SEE SHEET 5) WILL REQUIRE SIDE-WALL BRACING CLOSE TO THE PARTIALLY ENCLOSED END-WALL.

MANUFACTURED BY:

NE STEEL

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

CORNER BRACING DETAILS

9 / 11 SHEET NO .:

DRAWN BY: AW

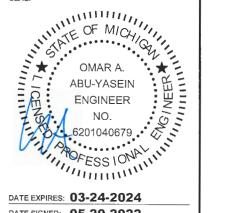
DATE: 5/17/22

CHECKED BY: OAA

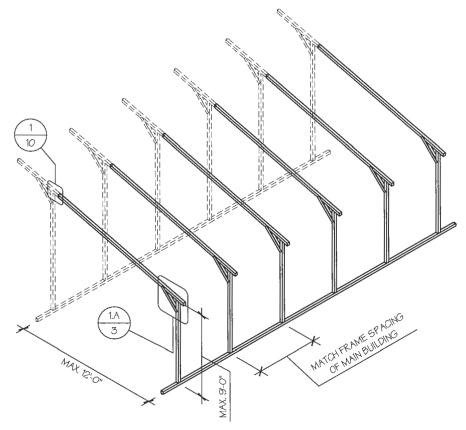
DATE: 5/17/22

LEGAL INFORMATION

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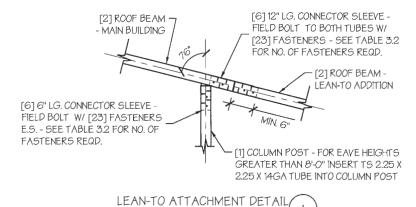


DATE EXPIRES: 03-24-2024



OPTIONAL LEAN-TO ADDITION

SCALE: NTS



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:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

OPTIONAL LEAN-TO **ADDITION**

10 / 11 SHEET NO .:

DRAWN BY: AW

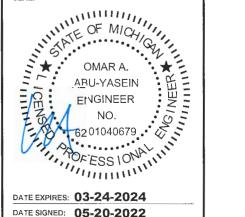
DATE: 5/17/22

CHECKED BY: OAA

DATE: 5/17/22

LEGAL INFORMATION

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DATE EXPIRES: 03-24-2024

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.
- 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.
- 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 53" FOR 14GA MATERIAL AND 53" 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.

2" WIDE X 1" DEEP

VERTICAL

□ 12GA

17/8"

NOTCH ALONG

OVERHEAD DOOR AND SLOPE TO 2"

- 8. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

HEAD DÖOR NOTCH DETAIL

HORIZONTAL/OPEN

□ 12GA

NOTE: DEPTH IS TO BE 11/2"

27/8"

STANDARD EDGE DETAIL

□ 14GA

2.3/4"

TABLE 11-A.1: NOTCH WIDTH

□ 14GA

13/4"

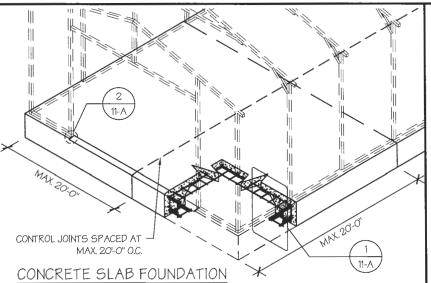


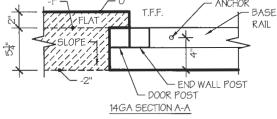
TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

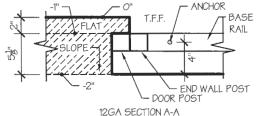
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 TO 135	(1) 1/2"Ø X 7"
OPEN	□136 TO 180	(2) 1/2"Ø X 7"

NOTES:

SCALE: NTS

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 22".
- ANCHORS TO BE SPACED NO MORE THAN 6' FROM POSTS.





MIN. 4" EDGE DIST.	١
[1] COLUMN POST —	_
ANCHOR - SEE TABLE 11-A.2 7 [3] BASE R	
MIN. 4" THK. ICRETE SLAB	
W6X6-6/6 WELDED	
WIRE OR #4 @ 24" B S S S S S S S S S S S S S S S S S S	
AS RECOMMENDED # 1 # # 8 \$	
BY MANUFACTURER S S S S S S S S S S S S S S S S S S	
(3) #4 REBAR CONT. → < 8 LL	FDG

MIN. 4" EDGE DIST NOTCH - SEE TABLE 11-A.1 GRADE MAX. 6' (2% SLOPE) [1] COLUMN POST ANCHOR - SEE 131 BASE RAIL TABLE 11-A.2 MIN. 12" GRADE NOTCHED EDGE DETAILS & H EDGE OFFSET DETAIL

NE STEEL

MANUFACTURED BY:

DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

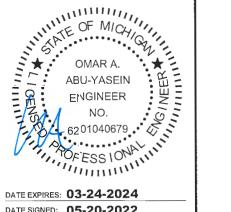
11-A / 11 SHEET NO .:

DRAWN BY: AW DATE: 5/17/22

DATE: 5/17/22 CHECKED BY: OAA

LEGAL INFORMATION

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DATE EXPIRES: 03-24-2024 DATE SIGNED: 05-20-2022

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.
- 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.1.
- 5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS &" FOR 14GA MATERIAL AND 1" 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.

BUILDING POST BEYOND

2" WIDE X 1" DEEP

AND SLOPE TO 2"

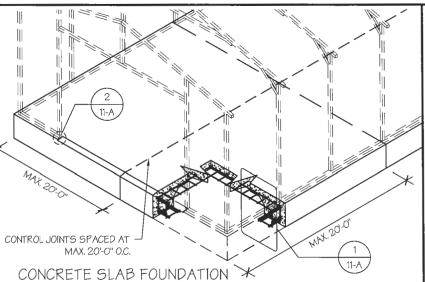
NOTCH ALONG

NOVERHEAD DOOR

CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

OVERHEAD DOOR NOTCH DETAIL

SCALE: NTS



ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
	□136 TO 180	(2) 1/2"Ø X 7"

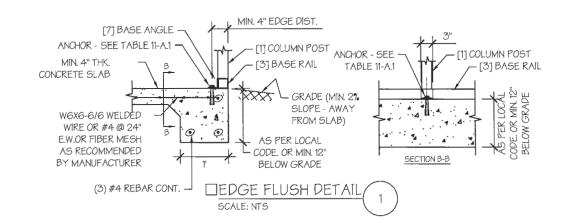
NOTES:

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- MIN. EMBEDMENT DEPTH TO BE 23".
- FROM POSTS.

TABLE 11-A.1: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
	□136 TO 180	(2) 1/2"Ø X 7"

ANCHORS TO BE SPACED NO MORE THAN 6"



SCALE: NTS

ANCHOR

END WALL POST

DOOR POST

SECTION A-A

BASE RAIL

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

11-A / 11 SHEET NO .:

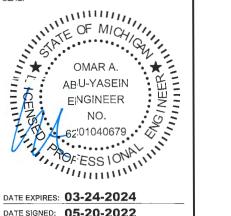
DATE: 5/17/22 DRAWN BY: AW

CHECKED BY: OAA

DATE: 5/17/22

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DATE EXPIRES: 03-24-2024

TABLE 11-B.1: ANCHOR SCHEDULE

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

NOTES:

- ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- 2. MIN. EMBEDMENT DEPTH TO BE 23".

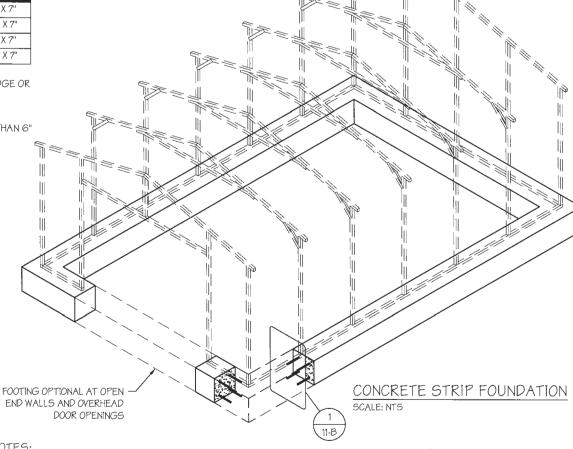
ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MÍN. SIZE REQD.
□105 TO 130	12" X 12"
□140 TO 155	18" X 12"
□165 TO 180	26" X 12" 21 X 15" 18" X 18"

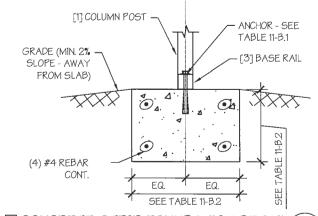
NOTES:

WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.



CONCRETE STRIP FOUNDATION NOTES:

- 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
- 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:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 2: CONCRETE STRIP

11-B / 11 SHEET NO .:

DRAWN BY: AW

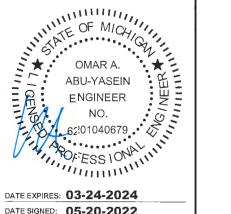
DATE: 5/17/22

CHECKED BY: OAA

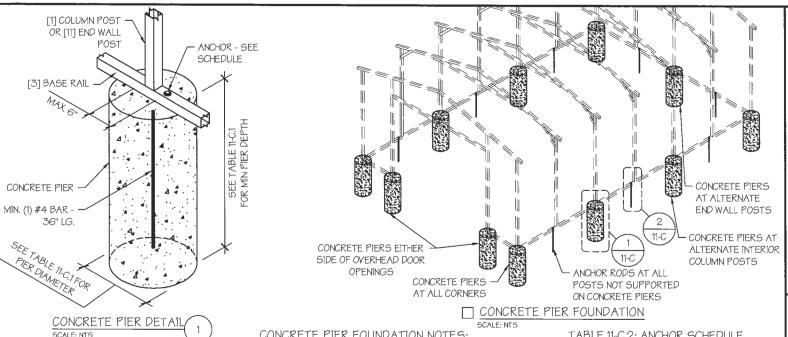
DATE: 5/17/22

LEGAL INFORMATION

- ANY DUPUCATION 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 | YEAR FROM DATE OF ISSUE.



DATE EXPIRES: 03-24-2024



CONCRETE PIER FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE PIER FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 2. CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS. ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- 3. 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 WITH A PIER.
- 4. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
- 5. MIN. NUMBER OF CONCRETE ANCHORS PER POST WITH A PIER SHALL BE AS SHOWN IN TABLE 11-C.2.
- 6. TWO ANCHORS AND A PIER ARE REQUIRED AT DIAGONAL BRACING LOCATIONS WHEN REQUIRED.
- 7. ALL POSTS NOT SUPPORTED ON CONCRETE PIERS SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
- 8. PIERS SHALL BE FORMED BY DIGGING A HOLE OF THE SAME SIZE AS THE PIER ON LEVEL GRADE AND FILLING IT WITH CONCRETE, THRD, ROD ANCHORS SHOULD BE DROPPED INTO THE PIERS PRIOR TO POURING THE CONCRETE.
- 9. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN, OF 1500 PSF.
- 10. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

TABLE 11-C.2: ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 TO 135	(1) 1/2"Ø X 7"
ENCLUSED	□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.
- 2. MIN. EMBEDMENT DEPTH TO BE 23".
- 3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 3: CONCRETE PIERS

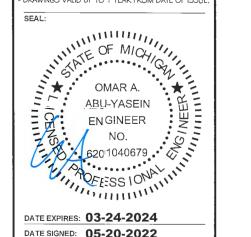
11-C / 11 SHEET NO .:

DATE: 5/17/22 DRAWN BY: AW

CHECKED BY: OAA DATE: 5/17/22

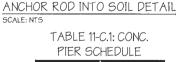
LEGAL INFORMATION

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DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022



[1] COLUMN POST

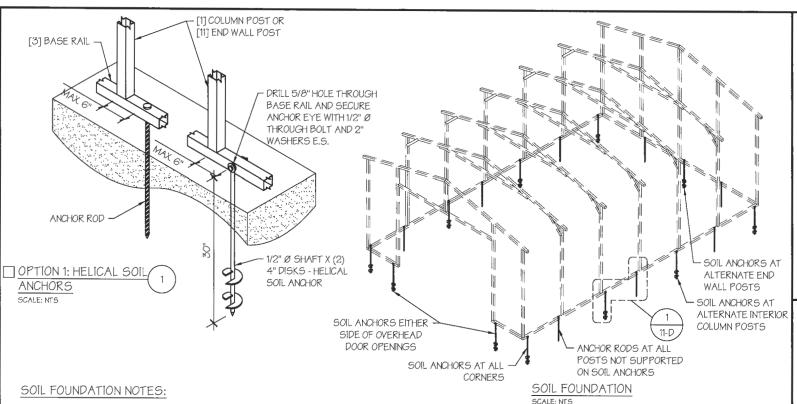
OR [11] END WALL

[3] BASE RAIL

POST

ANCHOR ROD

WIND SPEED (MPH)	MIN. SIZE REQD.
□105 TO 130	18"Ø X 36"
□140 TO 155	18"Ø X 42"
□165 TO 180	18"Ø X 48"



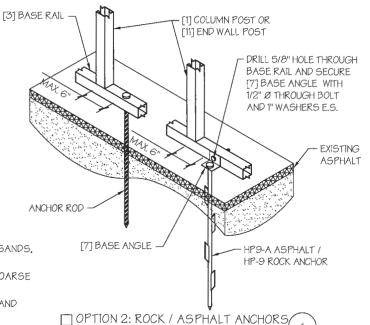
- 1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
- 2. SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS. ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- 3. HELICAL 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.
- 4. HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- 5. 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.
- 6. 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
- SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
- LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

*FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS"



SCALE: NTS

MANUFACTURED BY:



DRAWING INFORMATION

PROJECT: 22'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 4: SOIL ANCHORS

11-D / 11 SHEET NO .:

DRAWN BY: AW

DATE: 5/17/22 DATE: 5/17/22

CHECKED BY: OAA

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



DATE EXPIRES: 03-24-2024