

# 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 1/4" X 2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE
- 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: USE GROUP: RISK CATEGORY:

U (CARPORTS, BARNS) ROOF DEAD LOAD (D) D = 4 PSF

MBC 2015 (IBC 2015)

- ROOF LIVE/SNOW LOAD (Lr) Lr = 20 - 61 PSF(AS PER SNOW LOAD
  - SEE TABLE 4) SNOW LOAD (S) GROUND SNOW LOAD Pg = 20 - 90 PSF IMPORTANCE FACTOR Is = 0.8
- THERMAL FACTOR Ct = 1.2EXPOSURE FACTOR Ce = 1.0 ROOF SLOPE FACTOR C5 = 1.0 WIND LOAD (W)
- V<sub>ULT</sub> = 105 180 MPH BASIC WIND SPEED EXPOSURE SEISMIC LOAD (E)
- DESIGN CATEGORY IMPORTANCE FACTOR le = 1.00

## LOAD COMBINATIONS:

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

# DRAWING INDEX

COVER SHEET SCHEDULES & MEMBER -SECTIONS 3 FRAME SECTIONS & DETAILS -----SPACING SCHEDULES -

& ENCLOSURE NOTES PURLIN & GIRT SCHEDULES

SHEATHING OPTIONS SIDE WALL FRAMING

& OPENINGS END WALL FRAMING

& OPENINGS 8-A. 8-B

CORNER BRACING DETAILS OPTIONAL LEAN-TO ADDITION 10

FOUNDATION OPTIONS ----- 11-A TO 11-D

### MANUFACTURED BY:

# NE STEEL

## DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

4

5

# COVER SHEET

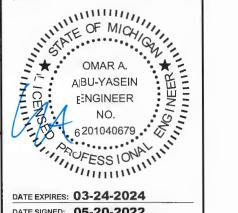
1 / 11 SHEET NO .:

DRAWN BY: A.W. DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

## LEGAL INFORMATION

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DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022

JSTOMER INFORMATION	DESIGN LOADS	BUILDING INFORMATION
35 TOWER INFORWATION	DESIGN LOADS	BUILDING INFORMATION

BASIC WIND SPEED:

☐ A-FRAME FRAME TYPE: GROUND SNOW: WIDTH: ☐ REGULAR ROOF LIVE LOAD: LENGTH: **ENCLOSURE** 

HEIGHT:

DATE OF PLANS 05-20-2023 ☐ FULL CERTIFICATION ON THESE DRAWINGS IS PARTIAL VALID FOR ONE YEAR FROM DATE OF ISSUE ☐ OPEN

**CERTIFICATION VALIDITY** NOTICE

TABLE 21. MEMBER PROPERTIES

	1 ABLE 2.1: MEMBER PROPERTIES						
NO.	LABEL	PROPERTY	DETAIL NO.				
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE	1				
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1				
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1				
4	PEAK BRACE	2.5" X 2.5" 14GA CHANNEL	4				
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4				
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2				
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10				
8	PURLIN	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5				
9	GIRT	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5				
9A	OPT. END WALL GIRT	2.5" X 1.5" 14GA CHANNEL	1				
10	SHEATHING	29 GA CORRUGATED SHEET	8				
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1				
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1				
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1				
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1				
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1				
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7				
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6				
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1				
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3				
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3				
21	DB BRACKET	2.25" X 2.25" X 6" LG. 14GA ANGLE	9				
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1				
23	ALL FASTENERS	#12 X 1" SELF-DRÍLL 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

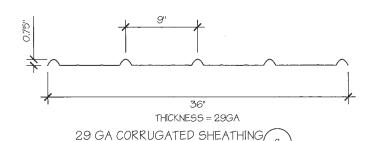
FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

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

# TABLE 23. GALIGE THICKNESS

17 1000 2.0. 07 1000 11 11011 1200									
GAUGE	29	18	14	12					
THICKNESS (IN)	0.0135	0.049	0.083	0.109					

SCALE: NTS





THICKNESS = 14GA





THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE, SCALE: NTS



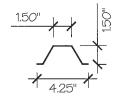
THICKNESS = 14GA 2" X 2" 14GA TUBE

SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL



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

HAT CHANNEL SCALE: NTS



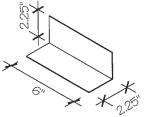
THICKNESS = 14GA STRAIGHT BRACKET

SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET SCALE: NTS



THICKNESS = 14GA DB BRACKET

SCALE: NTS



MANUFACTURED BY:



### DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

2 / 11 SHEET NO .:

DRAWN BY: A.W.

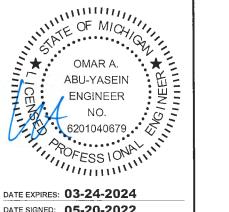
DATE: 5/17/22

CHECKED BY: OAA

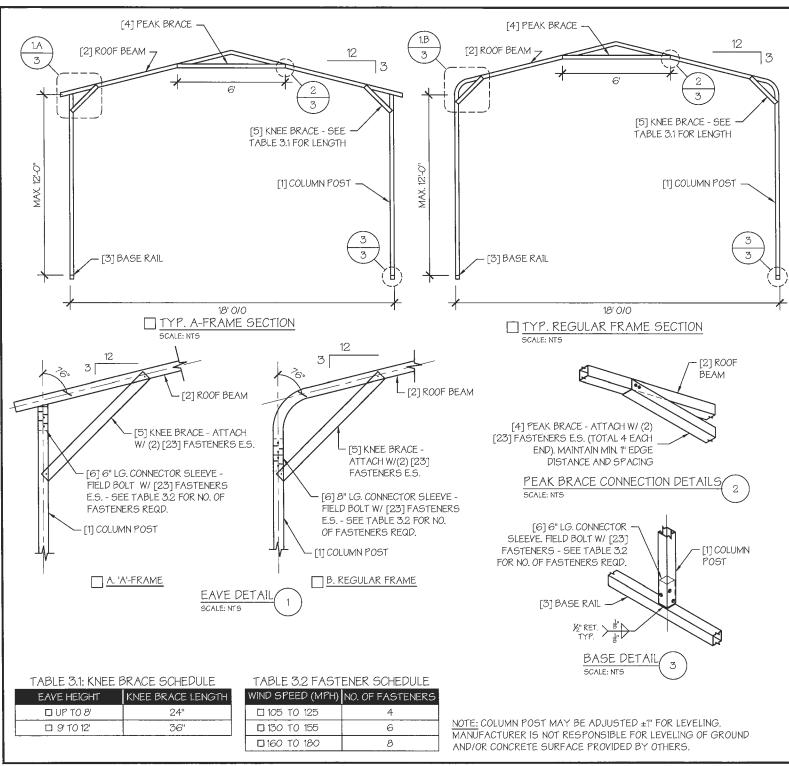
DATE: 5/17/22

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MANUFACTURED BY:



### DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

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SHEET TITLE:

FRAME SECTIONS & DETAILS

3 / 11 SHEET NO .:

DRAWN BY: A.W.

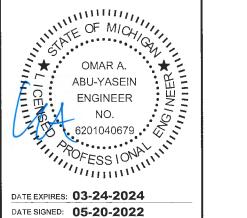
DATE: 5/17/22

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TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND SNOW /			■ ENCLO	SED BUIL	DINGS					■ OPE	N BUILDI	NG5		
	COOF LIVE			WIND	SPEED (N	1PH)					WIND	SPEED (	MPH)		
LC	DAD (PSF)	□105	□ 115	□13 <i>0</i>	□140	<b>155</b>	□165	□180	□1 <i>0</i> 5	□ 115	<b>□13</b> 0	□140	□155	□165	 □180
	30/20	60	60	54/60	54	42	36	30	60	54/60	48/60	42/54	36/42	36	30
HEIGHT = 'TO 12'-0"	340/27	48/60	48/60	42/60	42/54	42	36	30	48/54	48/54	42/54	42/54	36/42	36	30
至 20 口	350/34	40/54	40/54	40/54	40/54	40/42	36	30	40/48	40/48	40/48	40/48	36/42	36	30
中に	60 / 41	36/42	36/42	36/42	36/42	36/42	36	30	36	36	36	36	36	36	30
H O C	70/47	32/36	32/36	30/36	30/36	30/36	30/36	30	30	30	30	30	30	30	30
10-0"	30/54	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	30/61	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
HEIGHT = 10 9'-0"	J40/27	48/60	48/60	42/60	42/54	42/48	42/48	42	48/60	48/60	42/60	42/54	36/48	36/48	36/42
F 2	350/34	40/54	40/54	40/54	40/54	40/48	40/48	40/42	40/48	40/48	40/48	40/48	36/48	36/48	36/42
単し口	60/41	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42
世。日	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
EAVE 7'-0"	380/54	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
	30/20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/48	36/42
, I	140/27	48/60	48/60	42/60	42/54	42/48	42/48	42	48/60	48/60	42/60	42/54	36/48	36/48	36/42
至3 [	350 / 34	40/54	40/54	40/54	40/54	40/48	40/48	40/42	40/54	40/54	40/54	40/54	36/48	36/48	36/42
ŸO C	<b>3</b> 60 / 41	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42	36/42
五十二	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
EAVE HEIGHT UP TO 6'-0"	30/54	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	30/61	24	24	24	24	24	24	24	24	24	24	24	24	24	24

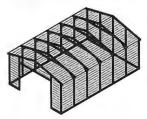
- FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
- WHERE TWO VALUES ARE SHOWN. THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
- SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
- 4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE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

# **ENCLOSURE CLASSIFICATION:**

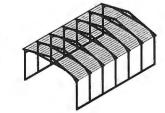
- ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING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

# GENERAL NOTES:

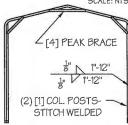
- THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-O". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
- 2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).







TYP. OPEN BUILDING SCALE: NTS



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

MANUFACTURED BY:

# NE STEEL

### DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SPACING SCHEDULES & ENCLOSURE NOTES

4 / 11 SHEET NO .:

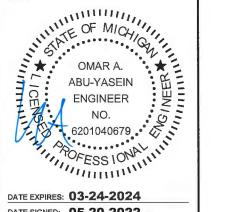
DRAWN BY: A.W. DATE: 5/17/22

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DATE EXPIRES: 03-24-2024

# TABLE 5.1: PURLIN SPACING SCHEDULE

	GROUND		14GA	. HAT	CHAI	NEL	PURL	IN		8GA	. HAT	CHAI	NEL	PURL	1N
	SNOW / ROOF LIVE		W	IND S	PEED	(MPH	1)			W	IND S	PEED	(MPH	n	
	LOAD (PSF)	105	115	130	140	155	165	180	105	115	130	140	155	165	180
.:.	□ 30 / 20	54	48	42	36	30	24	24	36	30	24	18	18	12	12
2	□ 40 / 27	42	42	42	36	30	24	24	30	30	24	18	18	12	12
A V	□ 50 / 34	40	40	40	36	30	24	24	24	24	24	18	18	12	12
FRAME SPACING: 5'-0"	D 60 / 41	36	36	36	36	30	24	24	18	18	18	18	18	12	12
吊門	070/47	32	32	32	32	30	24	24	18	18	18	18	18	12	12
N N	080/54	30	30	30	30	30	24	24	18	18	18	18	18	12	12
11	<b>90/61</b>	24	24	24	24	24	24	24	12	12	12	12	12	12	12
	□ 30 / 20	54	48	42	42	36	30	30	48	36	30	24	18	18	12
FRAME SPACING: 4'-6"	40 / 27	42	42	42	42	36	30	30	42	36	30	24	18	18	12
× =	□ 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
AE A	0 70 / 47	32	32	32	32	32	30	30	24	24	24	24	18	18	12
K A	080/54	32	32	32	32	32	30	30	18	18	18	18	18	18	12
IΓ	0 90 / 61	30	30	30	30	30	30	30	18	18	18	18	18	18	12
Ġ.	□ 30 / 20	54	48	42	42	36	36	30	54	48	36	30	24	24	18
Z	0 40 / 27	42	42	42	42	36	36	30	42	42	36	30	24	24	18
A =	□ 50 / 34	40	40	40	40	36	36	30	40	40	36	30	24	24	18
1.0-14	<b>60/41</b>	36	36	36	36	36	36	30	36	36	36	30	24	24	18
$\mathbb{Z}_{1}$	0 70 / 47	32	32	32	32	32	32	30	30	30	30	30	24	24	18
FRAME SPACING: 4-0"	080/54	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
ii.	□ 30 / 20	54	48	42	42	36	36	30	54	48	42	42	36	30	30
N N	40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	30	30
SPACING: 5'-6"	050/34	40	40	40	40	36	36	30	40	40	40	40	36	30	30
1.5P/	0 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
N A	080/54	32	32	32	32	32	32	30	32	32	32	32	32	30	30
<u>u.                                    </u>	0 90 / 61	30	30	30	30	30	30	30	30	30	30	30	30	30	30
<i>ii</i>	030/20	54	48	42	42	36	36	30	54	48	42	42	36	36	30
ACING: OWFR	0 40 / 27	42	42	42	42	36	36	30	42	42	42	42	36	36	30
A S	□ 50 / 34	40	40	40	40	36	36	30	40	40	40	40	36	36	30
SP	0 60 / 41	36	36	36	36	36	36	30	36	36	36	36	36	36	30
	0 70 / 47	32	32	32	32	32	32	30	32	32	32	32	32	32	30
FRAM 12-0-15		32	32	32	32	32	32	30	32	32	32	32	32	32	30
	0 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 12" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
- SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.

# 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:

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



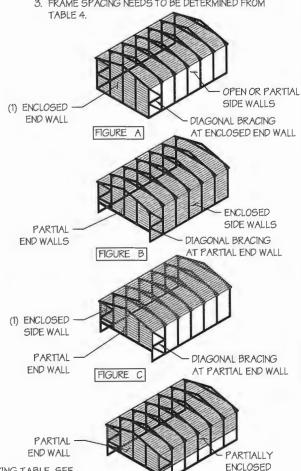


FIGURE D

MANUFACTURED BY:



# DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

PURLIN & GIRT SPACING SCHEDULES

5 / 11 SHEET NO .:

DRAWN BY: A.W.

DATE: 5/17/22

CHECKED BY: OAA

DATE: 5/17/22

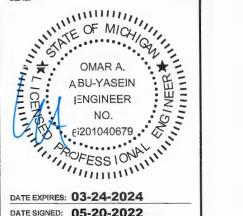
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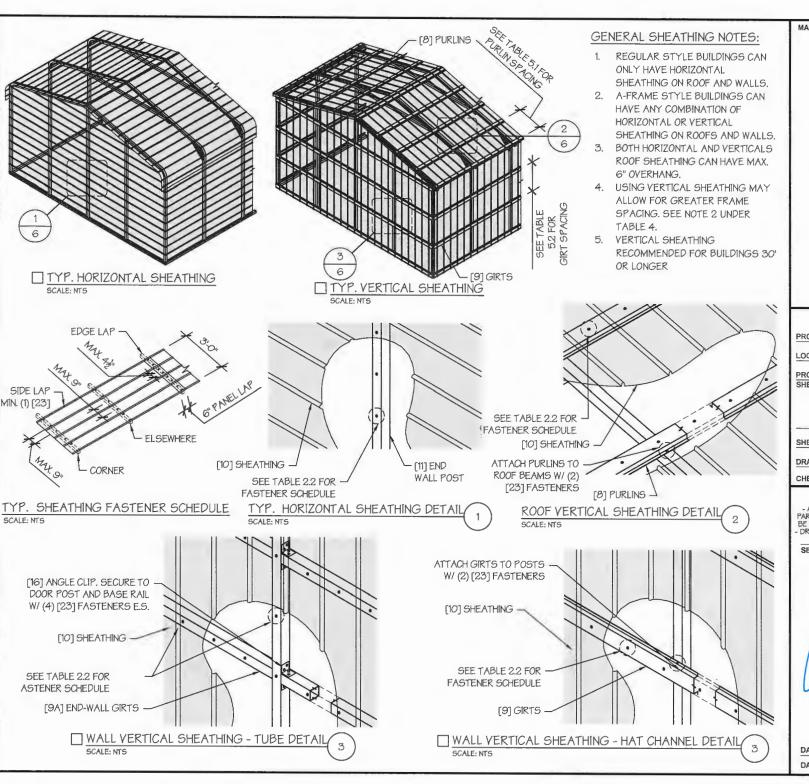
SIDE WALLS

DIAGONAL BRACING

AT PARTIAL END WALL



DATE EXPIRES: 03-24-2024



MANUFACTURED BY:

# NE STEEL

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SHEET TITLE:

SHEATHING OPTIONS & DETAILS

6 / 11 SHEET NO .:

DRAWN BY: A.W.

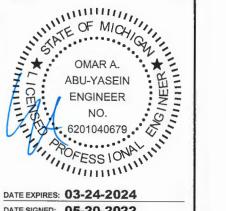
DATE: 5/17/22

CHECKED BY: OAA

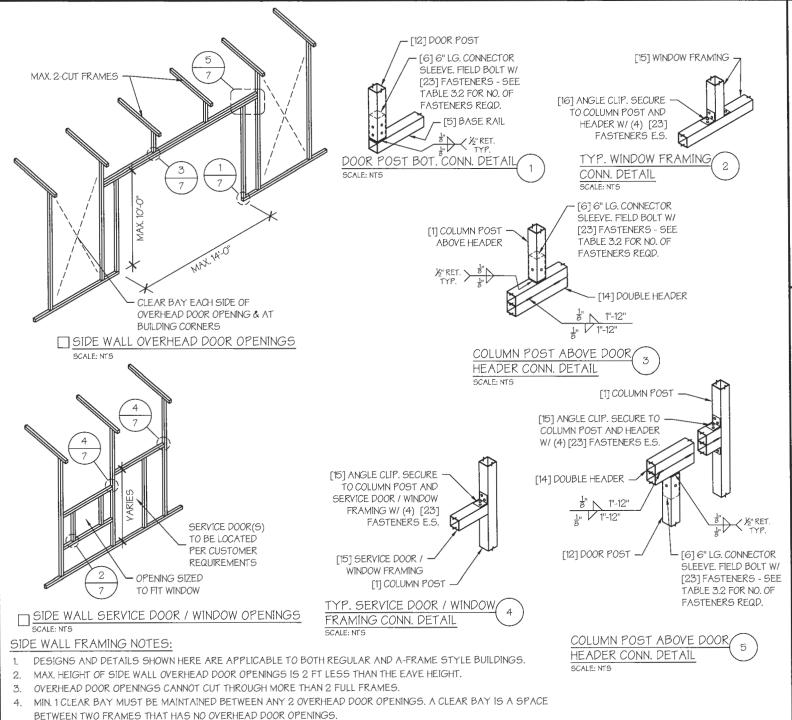
DATE: 5/17/22

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DATE EXPIRES: 03-24-2024



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.

MANUFACTURED BY:



## DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

SIDE WALL FRAMING & OPENINGS

7 / 11 SHEET NO .:

DRAWN BY: A.W.

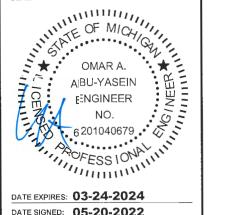
DATE: 5/17/22

CHECKED BY: OAA

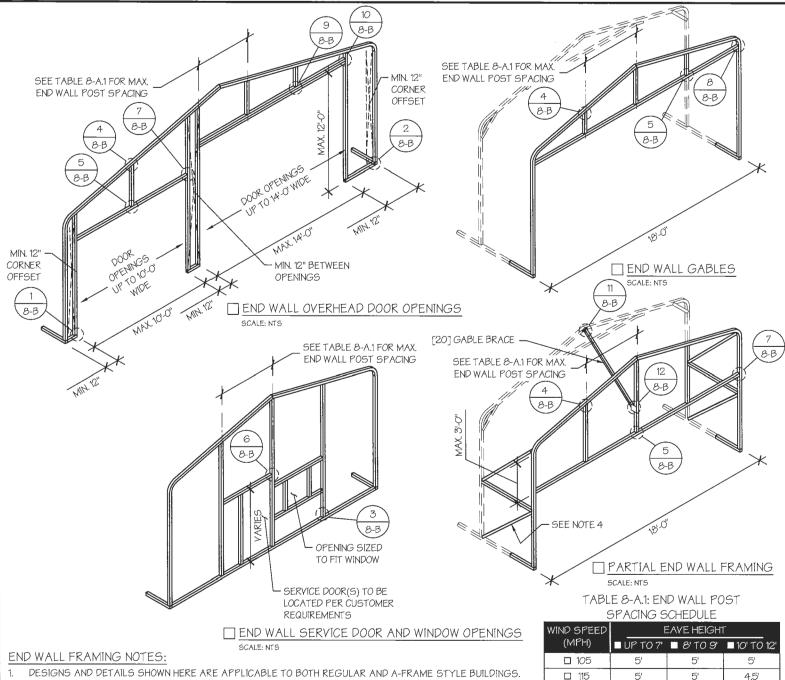
DATE: 5/17/22

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DATE EXPIRES: 03-24-2024



130

□ 140

□ 155

□ 165 - 180

4.5

4.5

4'

3.5

4.5

4.5

4'

3'

4'

31

2.5

2'

NE STEEL

MANUFACTURED BY:

### DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

# END WALL FRAMING

8-A / 11 SHEET NO .:

DRAWN BY: A.W. DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

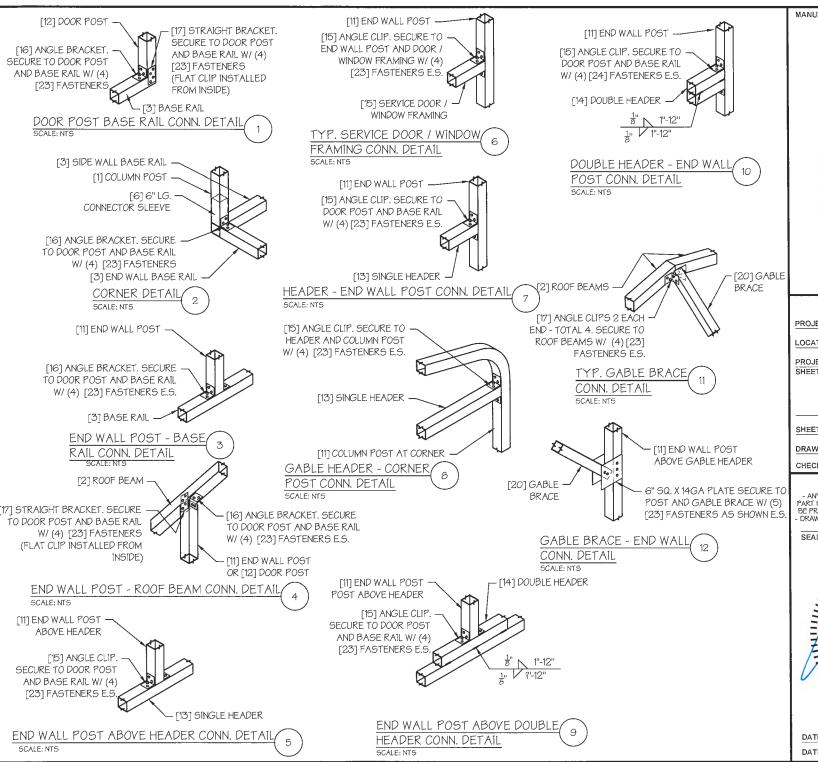
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DATE EXPIRES: 03-24-2024

- 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.



MANUFACTURED BY:



# DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

END WALL FRAMING DETAILS

8-B / 11 SHEET NO .:

DRAWN BY: A.W.

DATE: 5/17/22

CHECKED BY: OAA

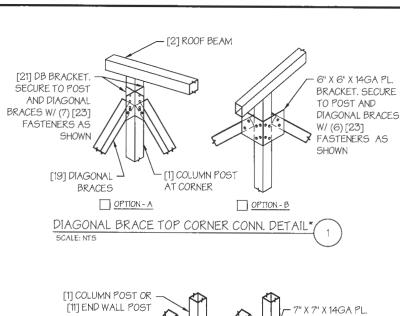
DATE: 5/17/22

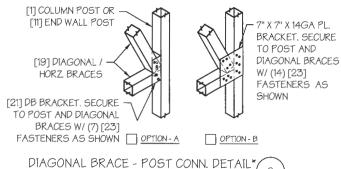
# LEGAL INFORMATION

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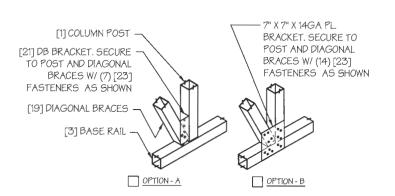


DATE EXPIRES: 03-24-2024





SCALE: NTS



CORNER DIAGONAL BRACING - SEE NOTES FOR REQUIREMENTS DIAGONAL BRACING AT CORNERS SCALE: NTS

# CORNER BRACING NOTES:

- 1. 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: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

CORNER BRACING DETAILS

9 / 11 SHEET NO .:

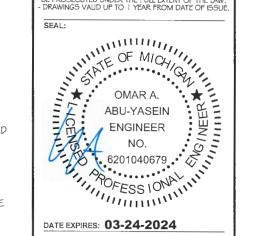
DRAWN BY: A.W.

DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

# LEGAL INFORMATION

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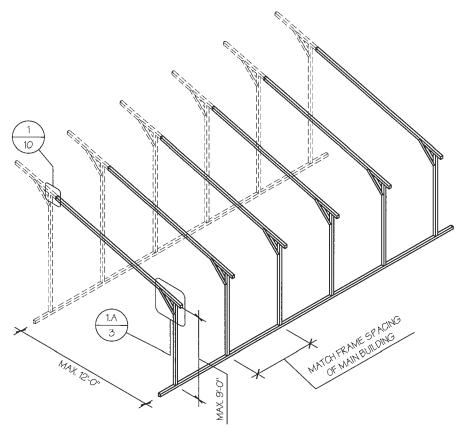


DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022

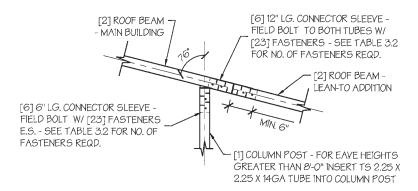
\* INSIDE VIEW SHOWN FOR CLARITY

DIAGONAL BRACE BOT. CORNER CONN. DETAIL'



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:



#### DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

OPTIONAL LEAN-TO ADDITION

10 / 11 SHEET NO .:

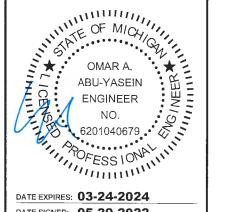
DRAWN BY: A.W.

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:

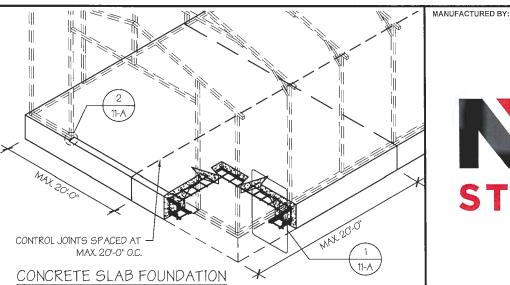
- 1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
- 2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
- 3. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING
- 4. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
- 5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS 51" FOR 14GA MATERIAL AND 534" 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

NOTCH ALONG

NOVERHEAD 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.



# NE STEEL

# DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

BASE RAIL

BASE

RAIL

END WALL POST

DOOR POST

T.F.F.

14GA SECTION A-A

₩FLAT

FOUNDATION OPTION 1: CONCRETE SLAB

11-A / 11 SHEET NO .:

DRAWN BY: A.W.

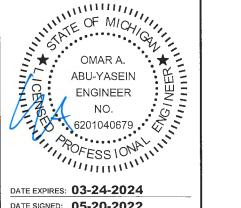
DATE: 5/17/22

CHECKED BY: OAA

DATE: 5/17/22

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DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022

# TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

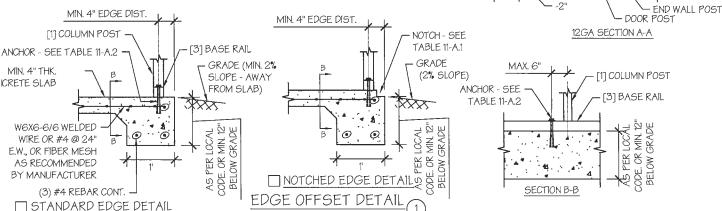
ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 TO 135	(1) 1/2"Ø X 7"
OFEN	□136 TO 180	(2) 1/2"Ø X 7"
NOTES.		

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.



OVERHEAD DOOR NOTCH DETAIL



# 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.
- 3. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" > SPACING.
- 4. MIN, NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.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

2" WIDE X 1" DEEP

AND SLOPE TO 2"

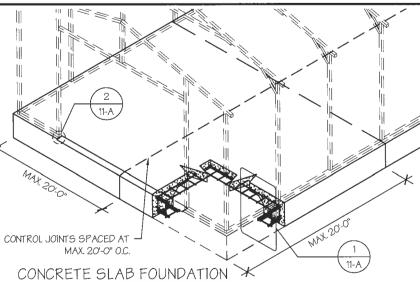
NOTCH ALONG

NOVERHEAD DOOR

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

OVERHEAD DOOR NOTCH DETAIL

SCALE: NTS



SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	□105 T0 135	(1) 1/2"Ø X 7"
ENCLOSED	□136 TO 180	(2) 1/2"Ø X 7"
00511	□105 TO 135	(1) 1/2"Ø X 7"
OPEN	□136 TO 180	(2) 1/2"Ø X 7"

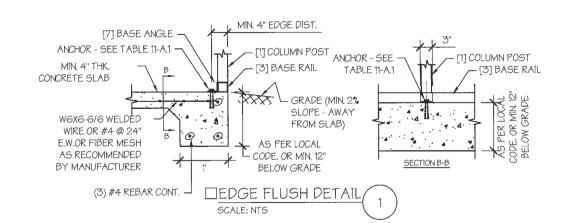
# NOTES:

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

TABLE 11-A.1: CONCRETE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENGLOCED.	□105 T0 135	(1) 1/2"Ø X 7"
ENCLOSED	□136 TO 180	(2) 1/2"Ø X 7"
OPEN	□105 T0 135	(1) 1/2"Ø X 7"
OFEN	□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: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 1: CONCRETE SLAB

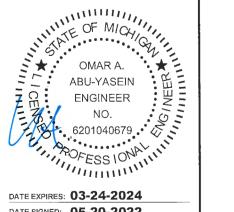
11-A / 11 SHEET NO .:

DRAWN BY: A.W. DATE: 5/17/22

CHECKED BY: OAADATE: 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"
ENCLOSED	□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 22".

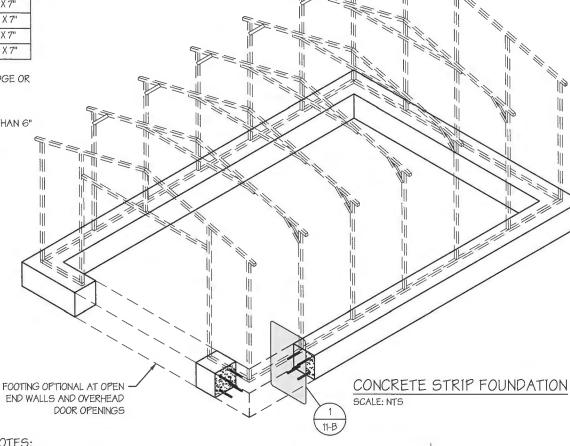
ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

# TABLE 11-B.2: CONC. STRIP SCHEDULE

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

# NOTES:

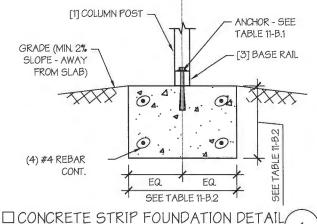
WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED



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
- 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.
- CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.
- 8. BUILDING IS TO BE MOUNTED ON THE CENTER OF THE STRIP FOUNDATION.



MANUFACTURED BY:

# NE STEEL

### DRAWING INFORMATION

PROJECT: 18'-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: A.W.

DATE: 5/17/22

CHECKED BY: OAA

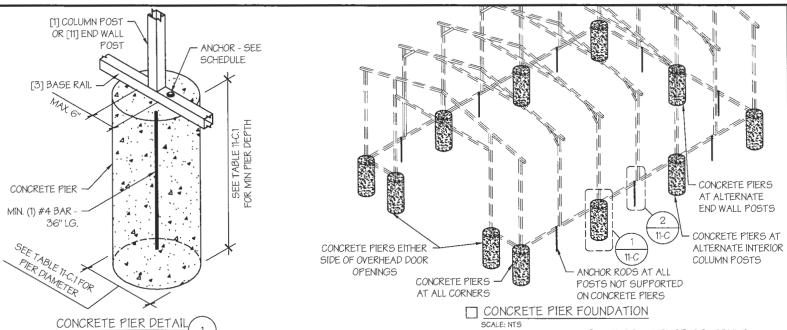
DATE: 5/17/22

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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"
	□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 ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
- 2. MIN. EMBEDMENT DEPTH TO BE 27.
- 3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

MANUFACTURED BY:



### DRAWING INFORMATION

PROJECT: 18'-O" WIDE BUILDINGS

LOCATION: STATE OF MICHIGAN

PROJECT NO.: 451-22-1572

SHEET TITLE:

FOUNDATION OPTION 3: CONCRETE PIERS

11-C / 11 SHEET NO .:

DRAWN BY: A.W. DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

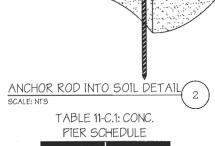
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DATE EXPIRES: 03-24-2024

DATE SIGNED: 05-20-2022



ANCHOR ROD

SCALE: NTS

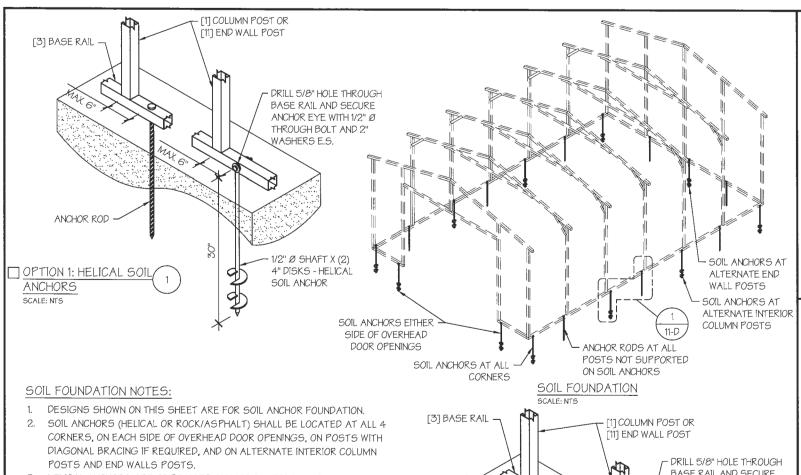
[1] COLUMN POST

OR (11) END WALL

[3] BASE RAIL

POST

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



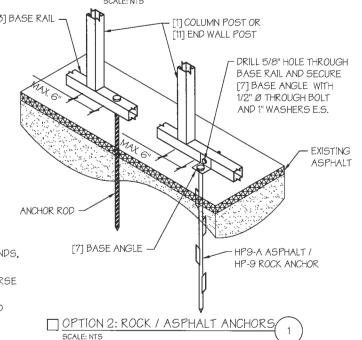
- 3. HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
- 4. HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- 5. ALL POSTS WITH NO ANCHORS ADJACENT 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.
- 3 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"



MANUFACTURED BY:

# NE STEEL

# DRAWING INFORMATION

PROJECT: 18'-0" 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: A.W.

DATE: 5/17/22

CHECKED BY: OAA DATE: 5/17/22

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DATE EXPIRES: 03-24-2024