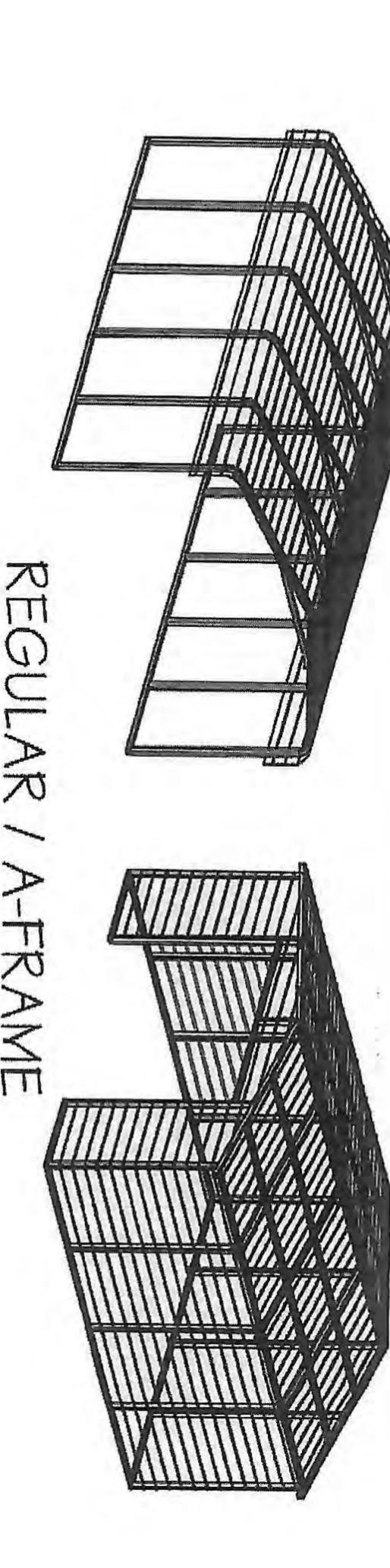


Gorgle Maps . Dit tree hand.



Swenness Location Cars enter here from state Ave.



CARPORT S BULL US

DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2016, OSHA, AISC 360, AISI 100, ASCE 7-16, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- N BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.

W.

PEAD LOAD (D) D = "

D=4PSF

Ç ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL

C

GROUND SNOW L

LOAD

IMPORTANCE FACTOR

 $P_{g} = 20$ 16 = 0.8Ct = 1.2

THERMAL FACTOR

- 4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- Ċ ALL FIELD CONNECTIONS SHALL BE #12"X1" SDS (ESR-2196 OR EQ).
- Ò PAINTED STEEL - MAIN RIB HT. 3/4" STEEL SHEATHING SHALL BE 29GA CORRUGATED GALY, OR (FY=BOKSI) OR EQ.
- N ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL

C

SEISMIC LOAD (E)
DESIGN CATEGORY
IMPORTANCE FACTOR

CO.

1.00

0

4.

BASIC WIND

SPEED

CAL

2

WIND LOAD (W)

EXPOSURE

ROO

SLOPE FACTOR

Ce = 1.0 Cs = 1.0

EXPOSURE FACTOR

Ø, STRUCTURAL TUBE TS2 1/2"X2 1/2" - IAGA, IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.

4 S S C - C A C

D+(L+ OR S)
D+(0.6W OR ±0.7E)

D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR 5) 0.6D + (0.6W OR ±0.7E)

Ø ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

RISK CATEGORY: USE GROUP: PREVAILING CODE:

WSBC (IBC 2018) U (CARPORTS, BARNS)

SECTIONS.

Ċ

SHEET TITLE:

331-20-1753

N

PROJECT:

LOCATION:

STATE OF WASHINGTON

12'-O" WIDE BUILDINGS

-

DRAWING INFORMATION

SPACING SCHEDULES

SIDE WALL FRAMING SHEATHING OPTIONS & OPENINGS

END WALL FRAMING

OPTIONAL LEAN-TO ADDITION d

Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4) FRAME SECTIONS & DETAILS

PURLIN & GIRT SCHEDULES & ENCLOSURE NOTES

& OPENINGS

FOUNDATION OPTIONS 9

DRAWING INDEX

SCHEDULES & COVER SHEET MEMBER

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DRAWN BY:

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DATE

4/30/21

DATE: 4/30/21

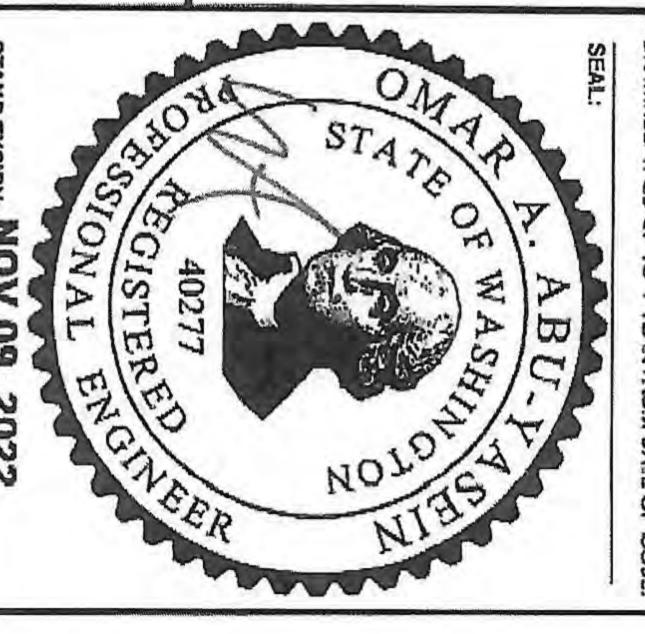
CHECKED BY: OAA

CORNER BRACING DETAILS ça G 0

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.



HIDIM: LENGTH: BUILDING INFORMATION TYPE: FRAME TYPE: REGULAR PARTIAL FULL A-FRAME

ROOF LIVE LOAD:

BASIC WIND SPEED:

HEIGHT:

GROUND SNOW:

DESIGN LOADS

ADDRESS:

CUSTOMER INFORMATION

NOTICE

DATE OF PLANS AUG EXPIRATION: <u>u</u> 20 ž

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

DATE SIGNED:

APR

30,

2021

STAMP EXPIRY:

NOV

09,

2022

OPEN

CERTIFICATION VALIDITY

MANUFACTURED BY:

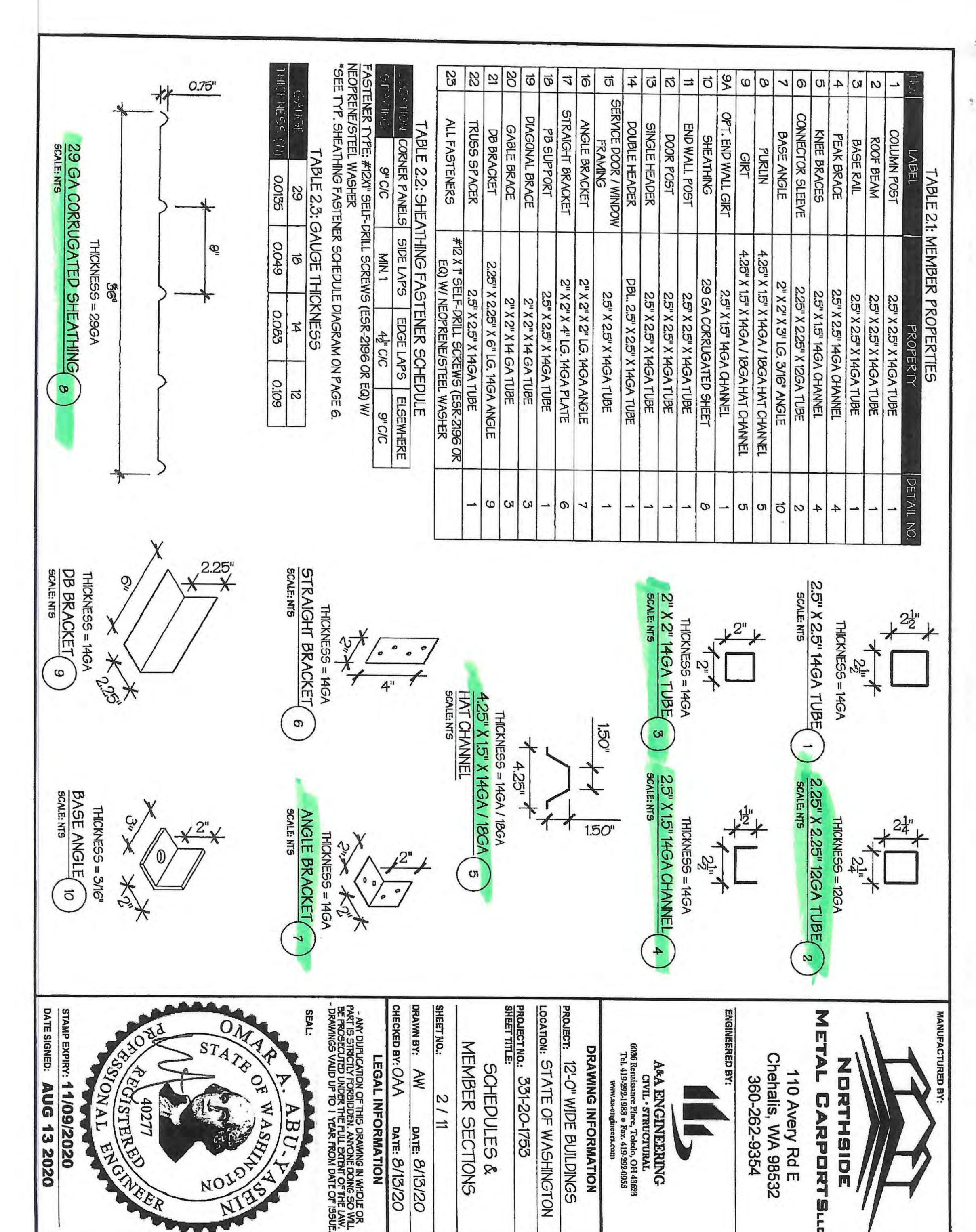
DRTHSIDE CARPORT

Chehalis, WA 110 Avery Rd E 360-262-9354 98532

ENGINEERED BY:



1036 Remissance Phee, Toledo, OH 43523 Tel. 419-292-1983 • Fax. 419-292-1055 A&A ENGINEERING CIVIL · STRUCTURAL www.az-engineers.com



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360-262-9354

ARPORTSLLE

331-20-1753

SECTIONS

DATE: 8/13/20

DATE:

8/13/20

OF.

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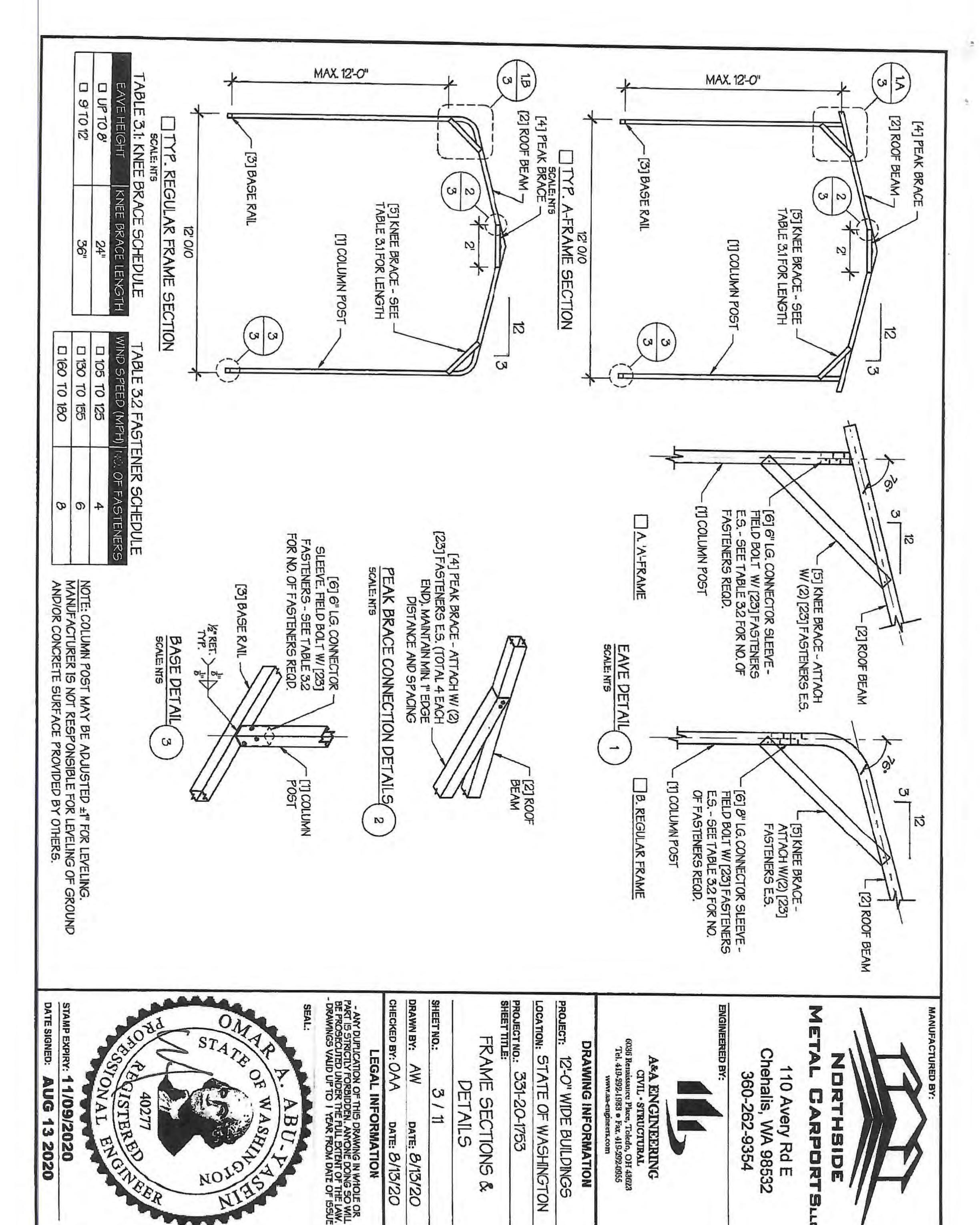
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DATE:

8/13/20

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DATE: 8/13/20

13 2020

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GROUND	ROOF LIVE	LOAD (PSF,	□30/20	040/27	口50/34	060/41	070/47	□80/54	□ 90 / 61	□30/20	040/27		060/41	070/47	080/54	090/61	□30/20	140/27	050/34	□60/41	070/47	□80/54	19/08
		0105	60	48/60	40/54	36/48	32/42	30/42	30/36	8	48/60	40/54	36/48	32/42	30/42	30/36	60	48/60	40/54	36/48	32/42	30/42	30/36
		□ 165	80	48/60	40/54	36/48	32/42	30/42	30/36	8	48/60	40/54	36/48	32/42	30/42	30/36	8	48/60	40/54	36/48	32/42	30/42	30/36
■ ENCL	WIN	030	54/60	42/60	40/54	36/48	32/42	30/42	30/36	54/60	42/60	40/54	36/48	32/42	30/42	30/36	54/60	42/60	40/54	36/48	32/42	30/42	30/36
ENCLOSED BUILDINGS	WIND SPEED (MPH)	□40	52	42/54	40/54	36/48	32/42	30/42	30/36	27	42/54	40/54	36/48	32/42	30/42	30/36	72	42/54	40/54	36/48	32/42	30/42	30/36
ILDINGS	(MPH)	☐ 155	42	42	40/42	36/42	32/42	30/36	30/36	\$	42/48	40/48	36/48	32/42	30/36	30/36	48	42/48	40/48	36/48	32/42	30/36	30/36
		□165	42	42	40/42	36/42	32/42	30/36	30	42/48	42/48	40/48	36/48	32/42	30/36	30/36	42/48	42/48	40/48	36/48	32/42	30/36	30/36
			36	36	36	36	32/36	30/36	30	42	42	40/42	36/42	32/42	30/36	30/36	42	42	40/42	36/42	32/42	30/36	30/36
		0105	8	48/60	40/54	36/48	32/42	30/42	30/36	60	48/60	40/54	36/48	32/42	30/42	30/36	8	48/60	40/54	36/48	32/42	30/42	30/36
			54/60	48/60	40/54	36/48	32/42	30/42	30/36	54/60	48/60	40/54	36/48	32/42	30/42	30/36	54/60	48/60	40/54	36/48	32/42	30/42	30/36
■ OP	WIND	0810	48/60	42/60	40/54	36/48	32/42	30/42	30/36	48/60	42/60	40/54	36/48	32/42	30/42	30/36	48/60	42/60	40/54	36/48	32/42	30/42	30/36
OPEN BUILDINGS	SPEED	DAD	42/54	42/54	40/54	36/48	32/42	30/42	30/36	42/54	42/54	40/54	36/48	32/42	30/42	30/36	42/54	42/54	40/54	36/48	32/42	30/42	30/36
NOS	(MPH)		36/42	36/42	36/42	36/42	32/42	30/36	8	36/48	36/48	36/48	36/48	32/42	30/36	30/36	36/48	36/48	36/48	36/48	32/42	30/36	9C/0C
		08	36/40	36/42	36/42	36/42	32/42	30/36	8	36/48	36/48	36/48	36/48	32/42	30/36	30/36	36/48	36/48	36/48	36/48	32/42	30/36	30/36
			36	30	36	33	32/36	30/36	8	36/42	36/42	36/42	36/42	32/42	30/36	30/36	36/42	36/42	36/42	36/42	32/42	30/36	30/36

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:

-

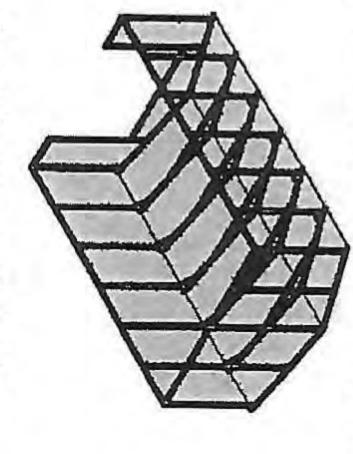
- ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- 'n OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
- 4. S 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING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

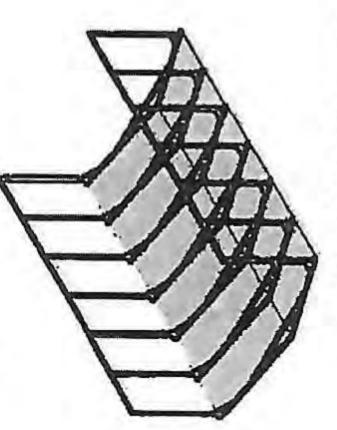
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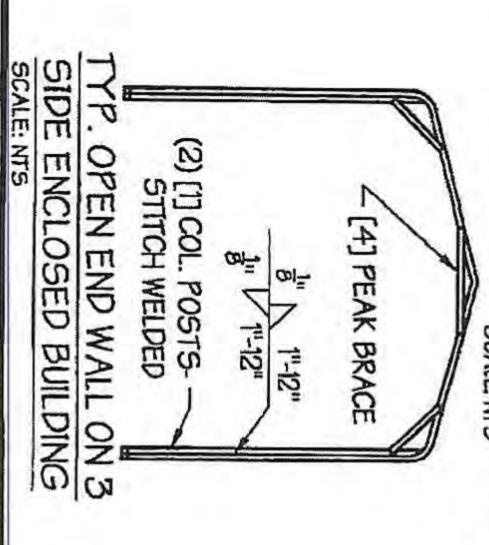
-

- 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.
- Ŋ BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHE ET 5). WALL BRACING TO





TYP. ENCLOSED BUILDING SCALE: NTS TYP. OPEN BUILDING



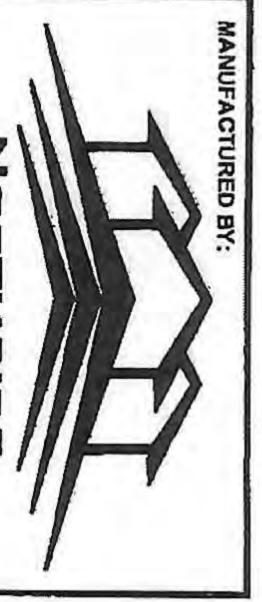
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13 2020

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JORTHSIDE GARPORT SLLE

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DRAWING INFORMATION

LOCATION: STATE OF WASHINGTON 331-20-1753

PROJECT:

12'-0" WIDE BUILDINGS

SHEET TITLE: SPACING SCHEDULES

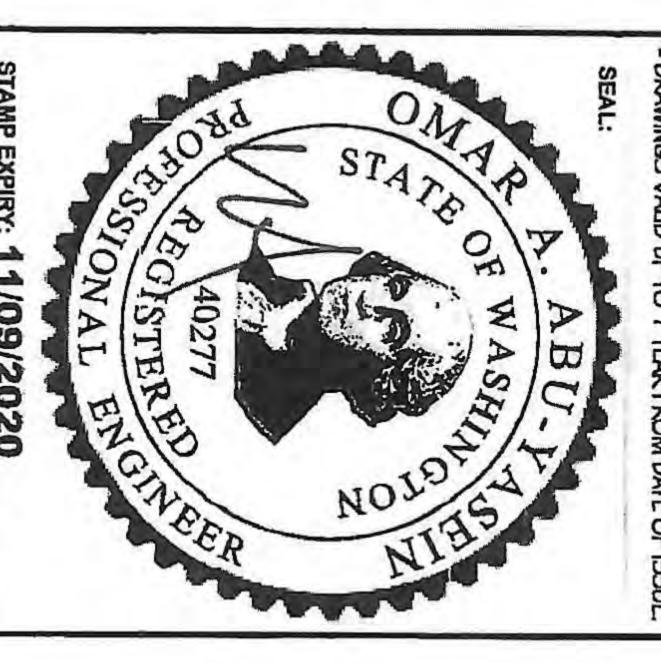
SHEET NO .: 50 ENCLOSURE = NOTES

снескев ву: ОАА DRAWN BY: ⋛ DATE: 8/13/20 DATE: 8/13/20

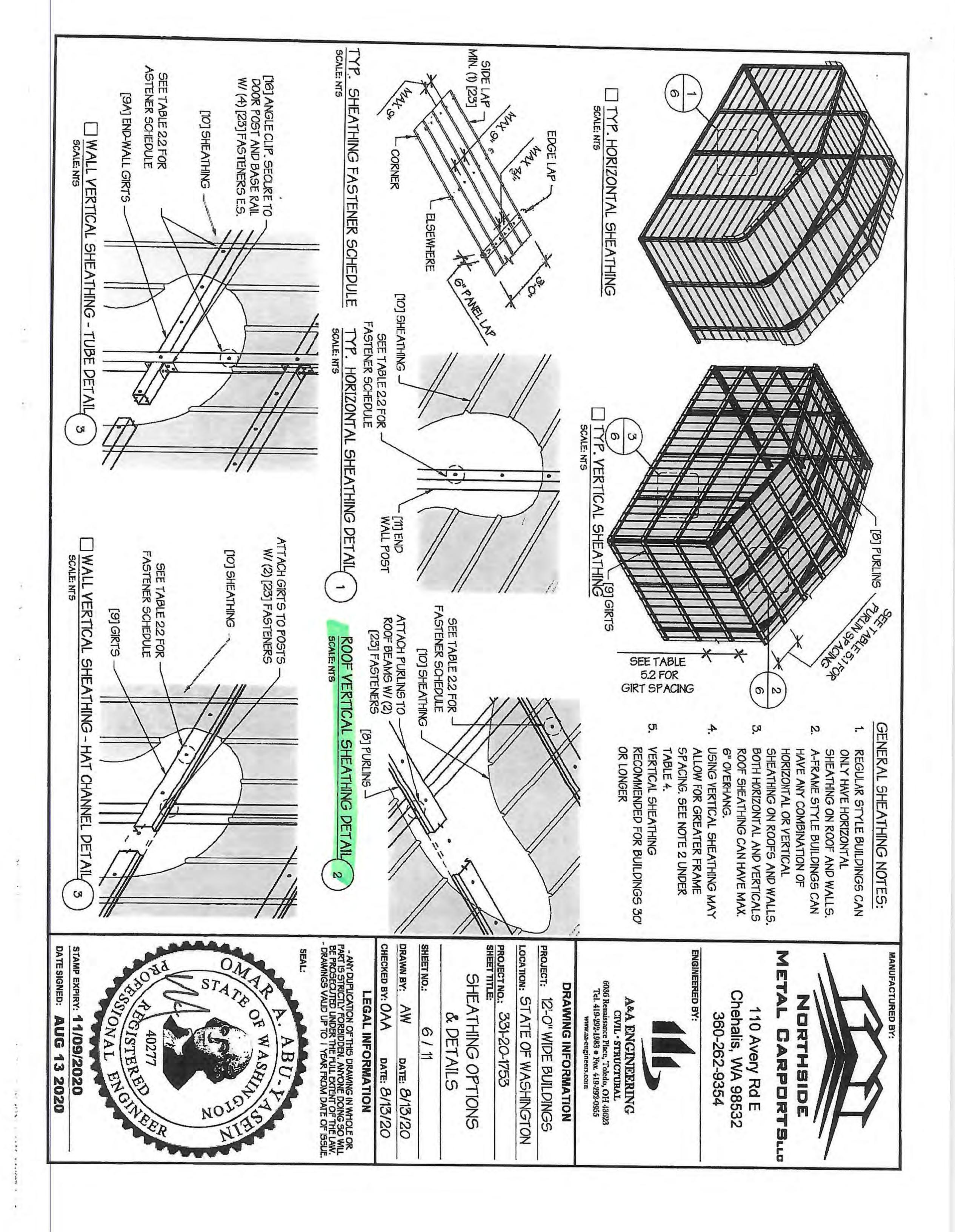
LEGAL INFORMATION

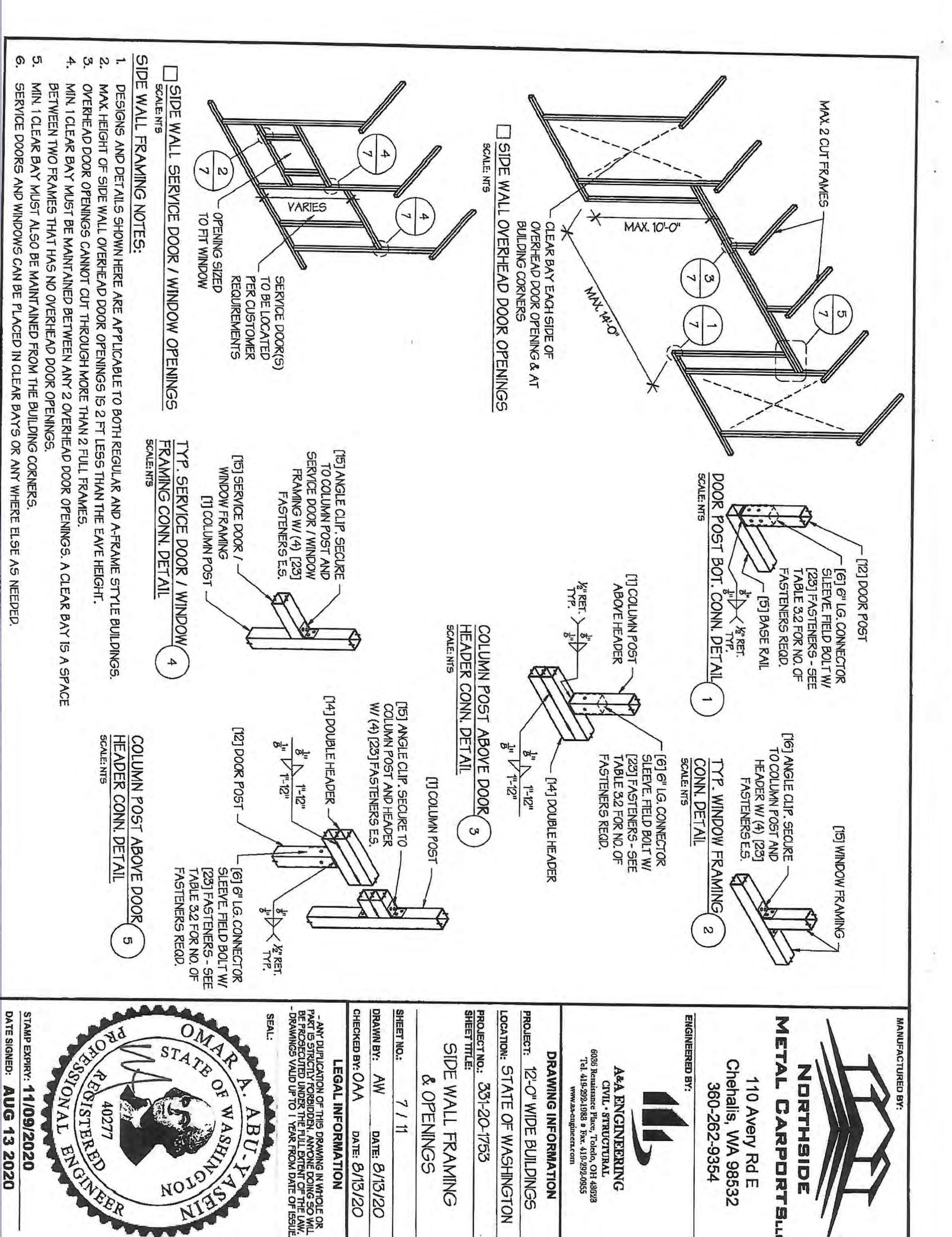
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- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE

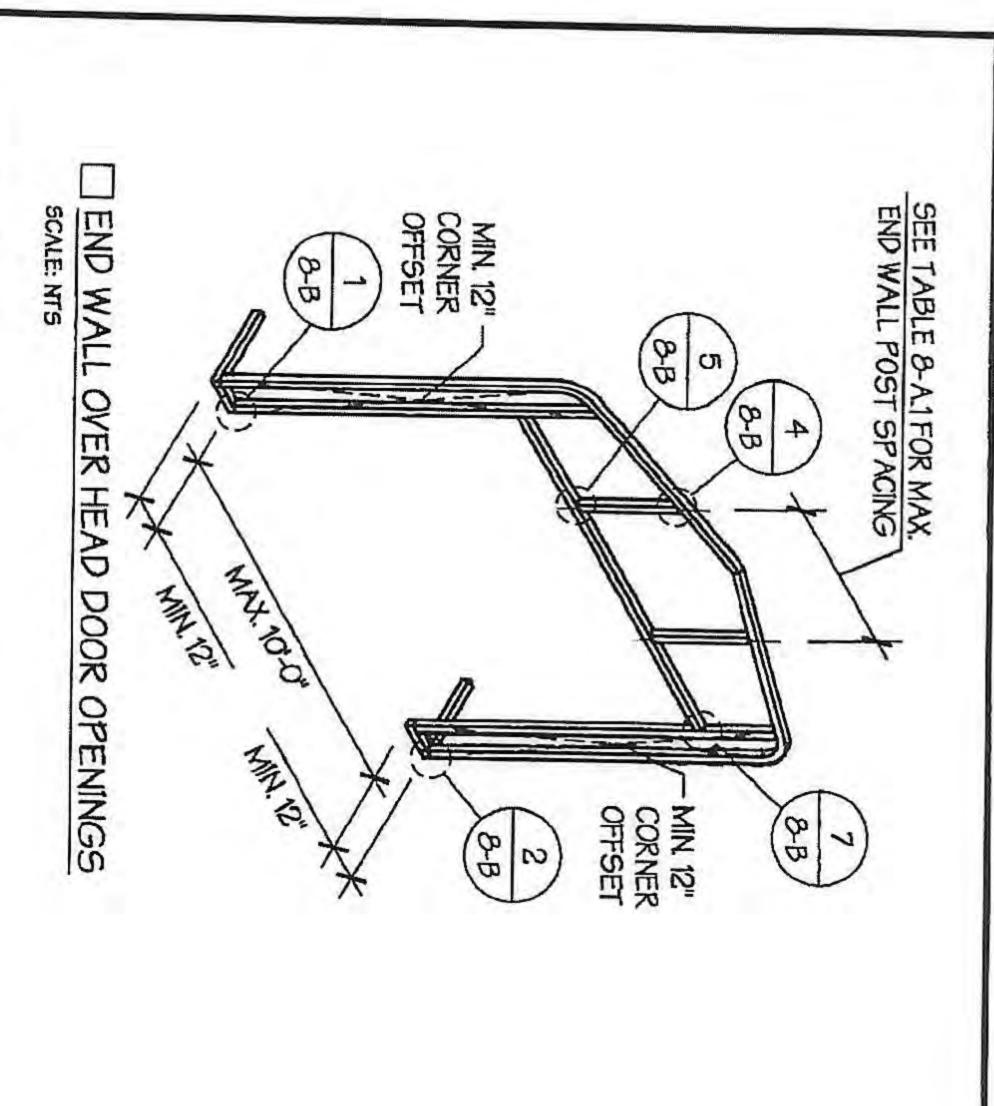


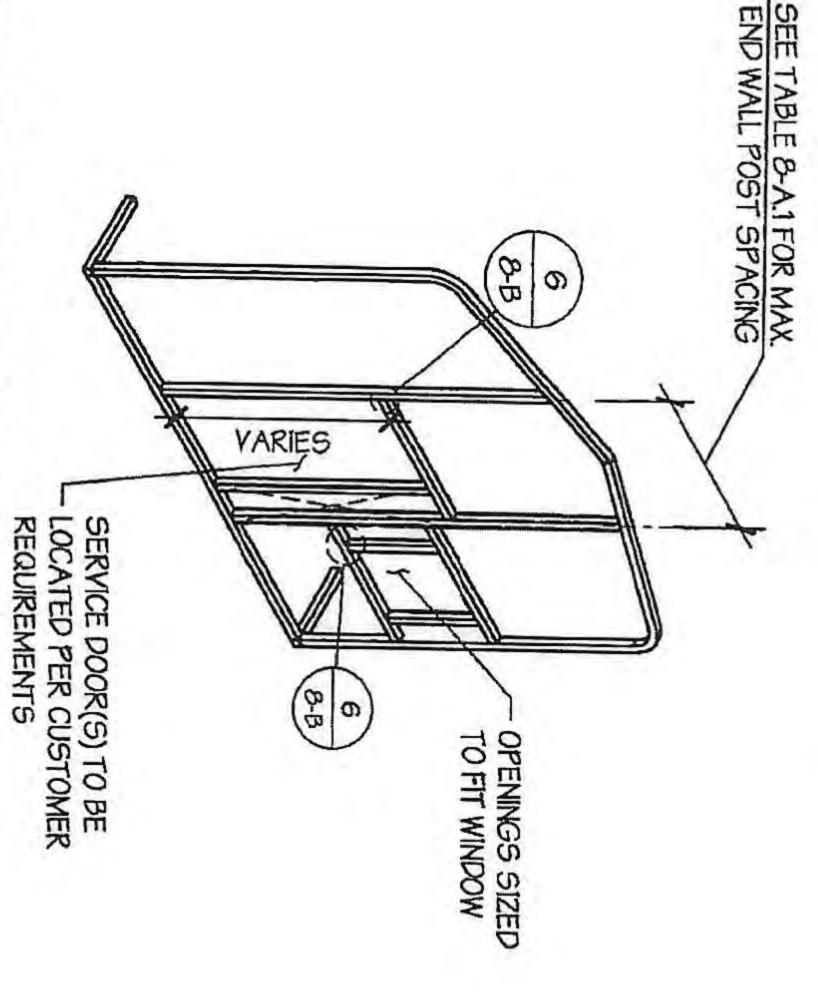
3. P. 1. RRE	N -1 8	motions.	At the state of th	
GULAR BUILDING NOT FIGURES A, B, C & D FIGURES A, B, C & D SHEET 4 FOR OPEN BOTTE SPECIFICS MAY	TES: PURLIN SPACING UNIT FRAME SPACING VIEE PRINCING VIEE FRAME SPACING VIEE PURLIN SPACING UNIT FRAME SPACING VIEE FRA		2 - 2 - 2 - 2 - 2 - 2 - 2	コントリング 一分 一分 一分 一方
RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS. FRAME SPACING MUST BE REDUCED BY 12" FROM <u>OPEN BUILDING</u> TABLE. FOR ALTERNATIVE SPACING.	80 30 <	32 32<	4 45 42 42 36 30 30 48 36 30 24 18 18 2 42 42 42 36 30 30 48 36 30 24 18 18 3 40 40 40 36 30 30 30 30 24 18 18 3 36 36 36 30 30 30 30 20 24 18 18 3 36 36 36 30 30 30 30 20 24 18 18 3 32 32 32 30 30 30 30 24 24 24 18 18 3 30 30 30 30 30 18 18 18 18 4 42 42 36 30 30 54 48 36 30 <t< th=""><th>FURLIN SPACING SCHEDULE WIND SPEED (MPH) WIND SPEED (MPH) 105 115 130 140 155 165 180 105 115 130 140 161 161 161 161 161 161 161 161 161 16</th></t<>	FURLIN SPACING SCHEDULE WIND SPEED (MPH) WIND SPEED (MPH) 105 115 130 140 155 165 180 105 115 130 140 161 161 161 161 161 161 161 161 161 16
SPACING TABLE SEE PARTIALLY ENCLOSED SIDE WALLS AT PARTIAL END WALL		PARTIAL PARTIAL END WALLS EIGHE B AT PARTIAL END WALLS EIGHE B AT PARTIAL END WALL	3. FRAME SPACING FROM TABLE 4. (1) ENCLOSED END WALL	TABLE 5.2: GIRT SPACE FRAME SPACING SPACING UNITS THIS SCHEDULE IS TO THESE THIS SCHEDULE IS TO
DATE SIGNED: AUG 13 2020	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 SEAL: SEAL: WASH OF W	PURLING SC ACING SC ACING SC ACING SC	A&A ENGINEERING CIVIL * STRUCTURAL 6036 Remaissance Place, Toledo, OH 43623 Tel. 419-292-1983 • Fax. 419-292-0955 www.aa-engineers.com DRAWING INFORMATION PROJECT: 12'-O" WIDE BUILDINGS LOCATION: STATE OF WASHINGTON	NORTHSIDE NORTHSIDE NORTHSIDE NETAL CARPORTSLC 110 Avery Rd E Chehalis, WA 98532 360-262-9354





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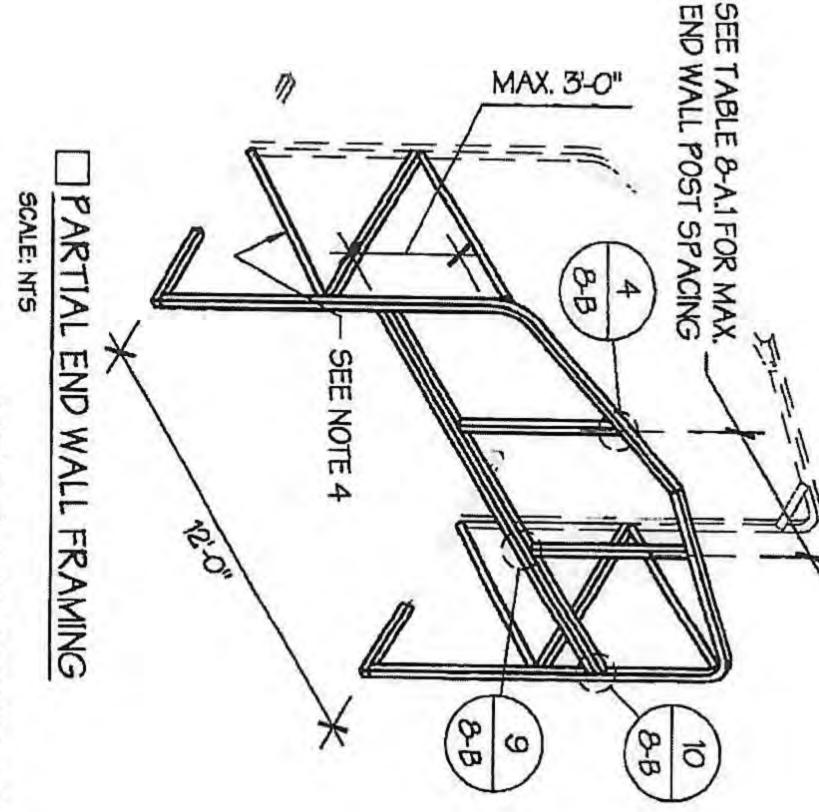


TABLE LE 8-A.1: END WALL POST SPACING SCHEDULE

□ 165 - 180	□ 155	□ 140	□ 1 2 0	司	105	(MPI)	WIND STEEL
3.5	4	4.5	4.5	ΩĨ	ΩĪ	■ UP TO 7'	
Si	41	4.5	4.5	5	OĪ.	■UP TO7' ■ 8' TO 9'	EAVE HEIGHT
73	2.5'	য়ে	4	4.5'	ΩĪ	■ 10' T0 12'	7



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B

SEE TABLE 8-A.1 FOR MAX. END WALL POST SPACING

ORTHSIDE CARPORT

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END WAL

GABLES

52.0

SCALE: NTS

DRAWING INFORMATION

SHEET TITLE: PROJECT: LOCATION: STATE OF WASHINGTON 12'-0" WIDE BUILDINGS 331-20-1753

END WALL FRAMING

снескер ву: ОАА DRAWN BY: SHEET NO .: * 긐 DATE: DATE: 8/13/20 8/13/20

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- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.



END WALL FRAMING NOTES:

END WALL

SERVICE DOOR

AND WINDOW OPENINGS

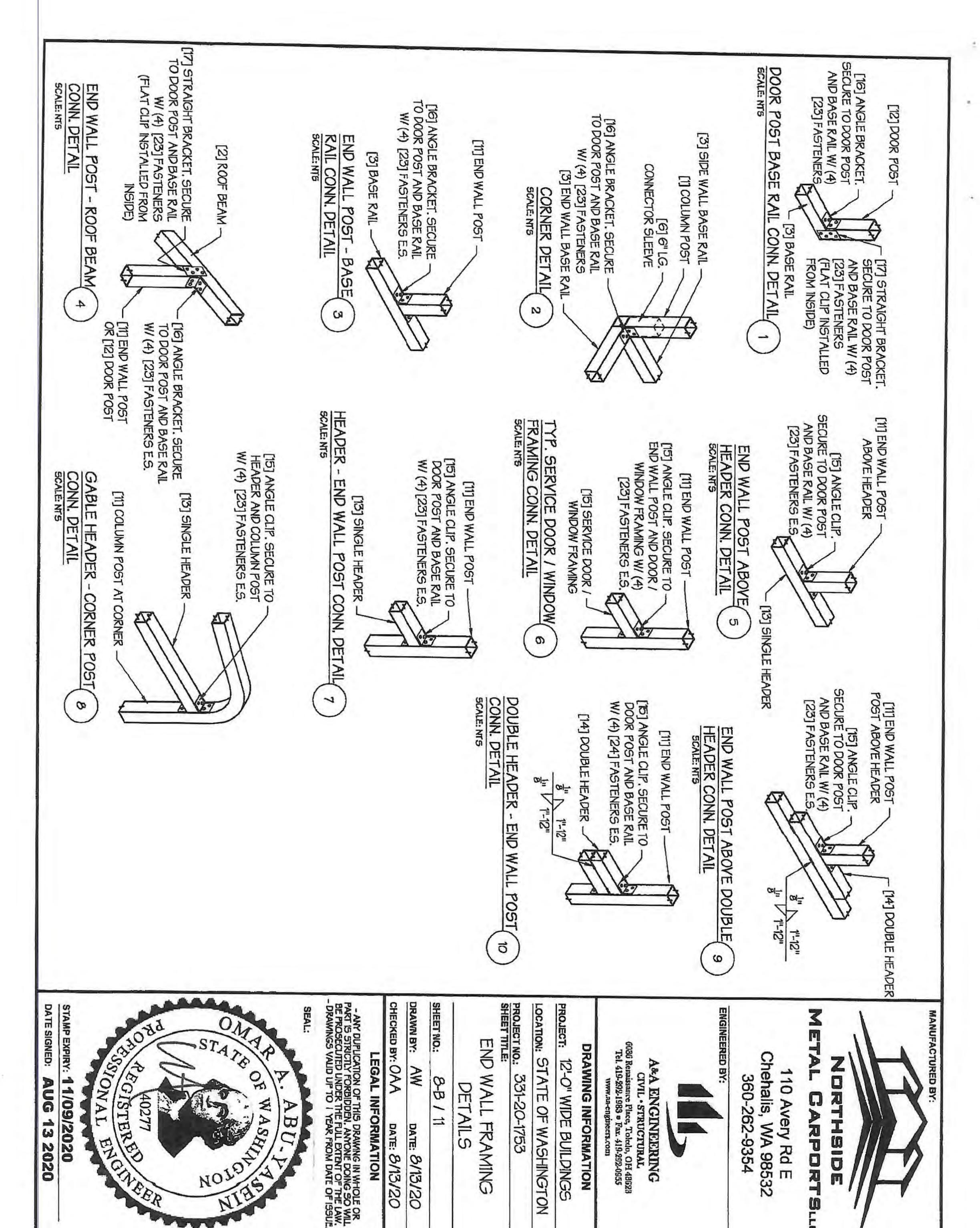
- N -MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR (OVERHEAD DOOR OR SERVICE DOOR) AND A-FRAME STYLE BUILDINGS.
- SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.

S

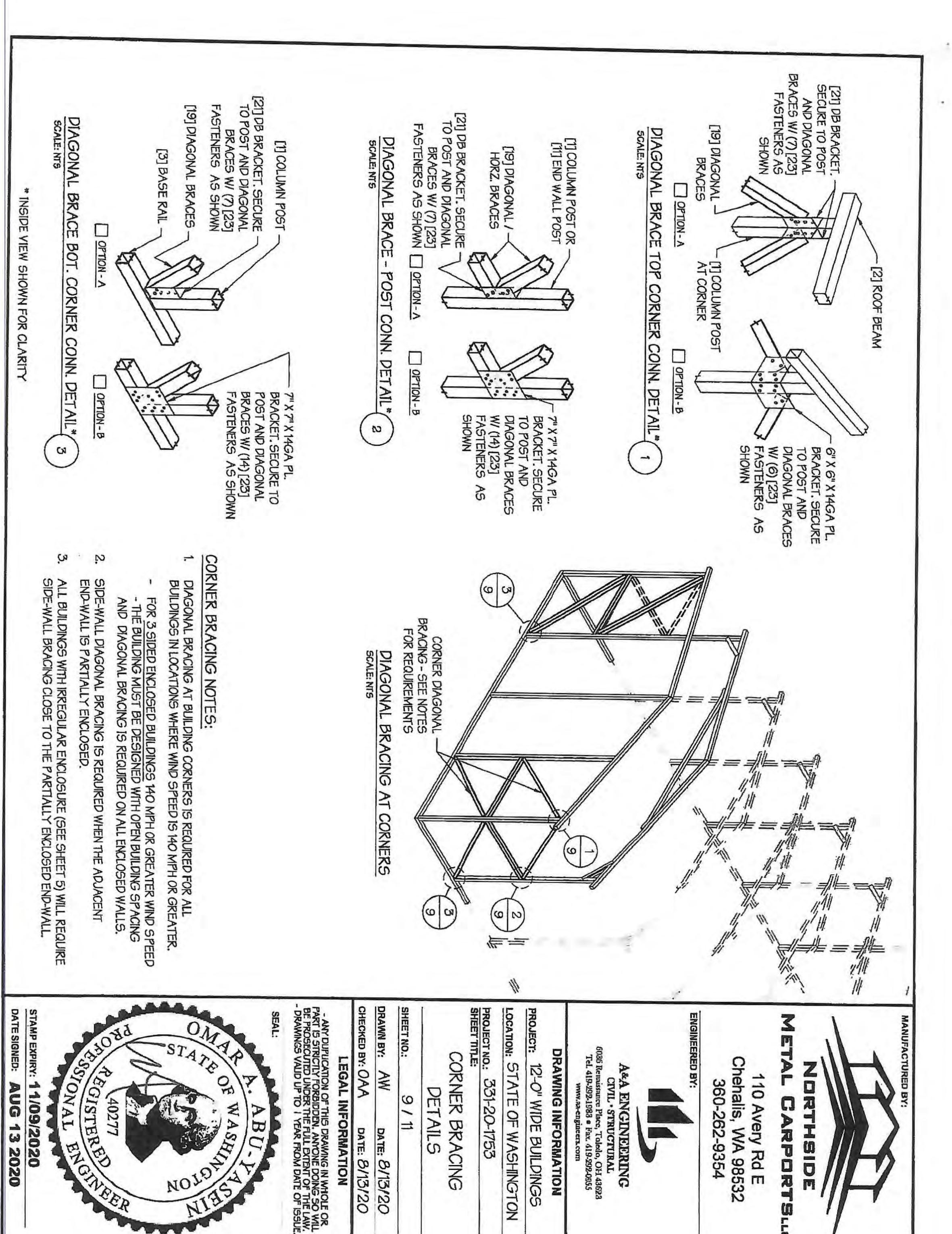
AND FROM CORNERS.

BRACE CONNECTION DETAILS DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSU RES. SEE SHEET 9 FOR DIAGONAL

DATE SIGNED: STAMP EXPIRY: STATION AL AUG 11/09/2020 13 2020



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CARPORTSLL

DRITHSIDE

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360-262-9354

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DRAWING INFORMATION

STATE OF WASHINGTON

331-20-1753

12'-0" WIDE BUILDINGS

CORNER

BRACING

DETAIL

=

LEGAL INFORMATION

DATE:

8/13/20

OF.

NOTOWN

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DATE: 8/13/20

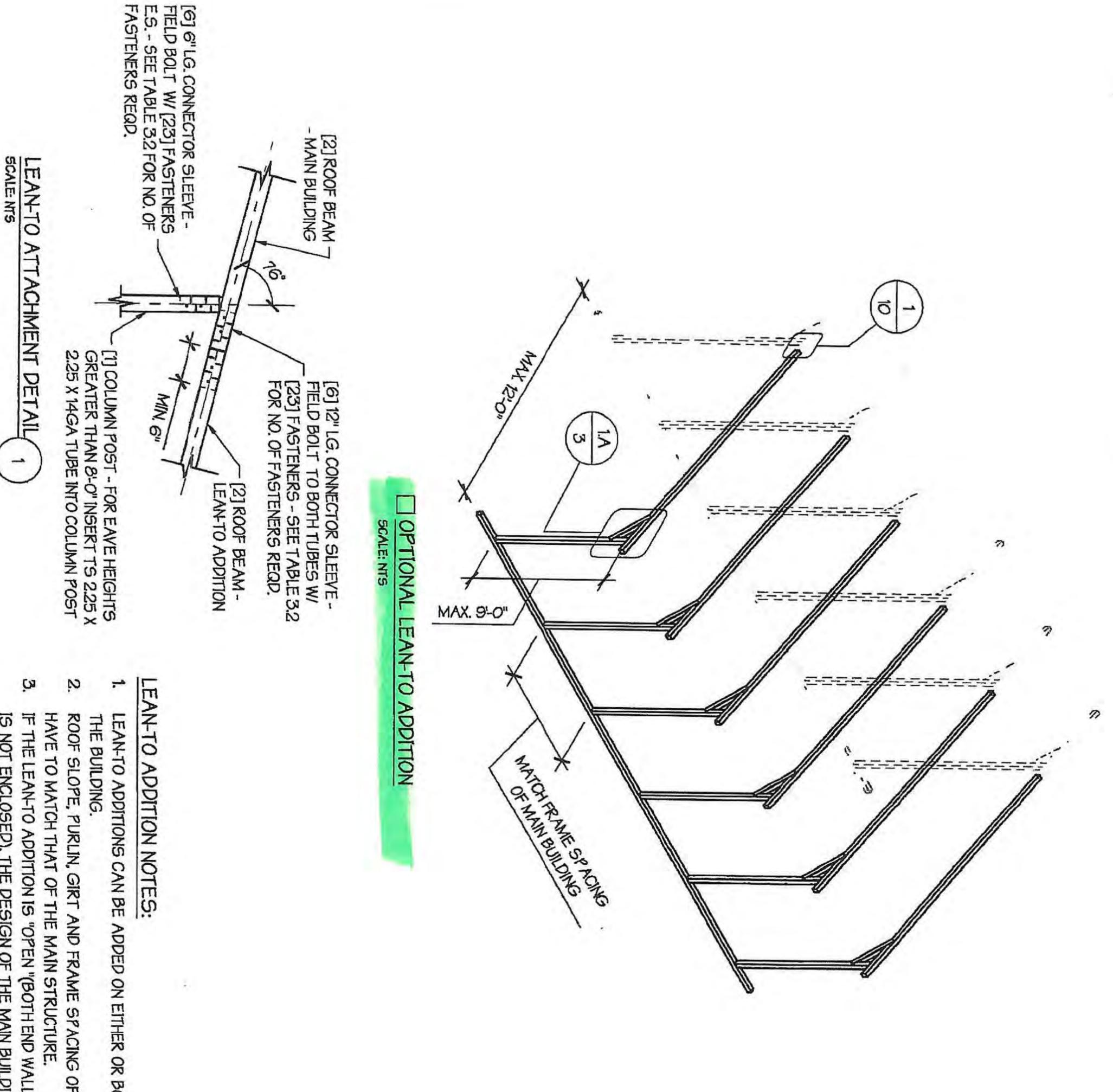
EGISTERES!

ENGINEER

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11/09/2020

AUG 13 2020



- LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF
- ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION
- 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.

DATE SIGNED:

AUG 13 2020

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11/09/2020



METAL DRTHSIDE GARPORTSLLC

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DRAWING INFORMATION

PROJECT: STATE OF WASHINGTON 12'-O" WIDE BUILDINGS

331-20-1753

LOCATION:

SHEET TITLE:

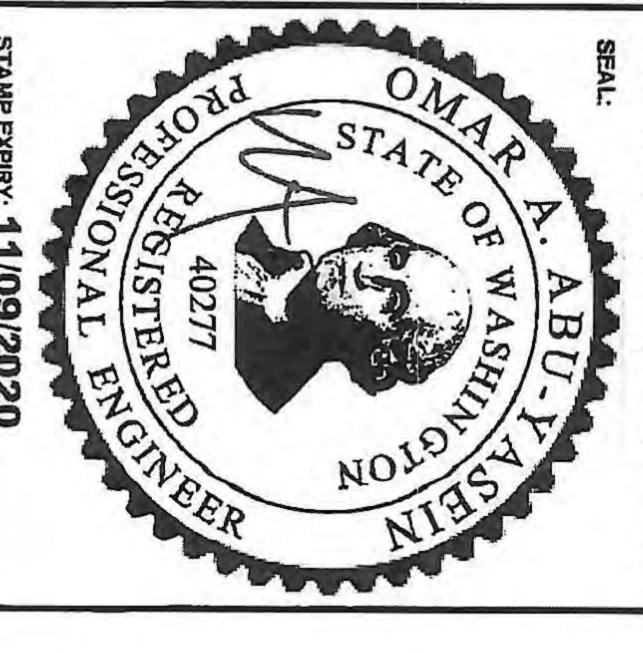
OPTIONAL LEAN-TO ADDITION

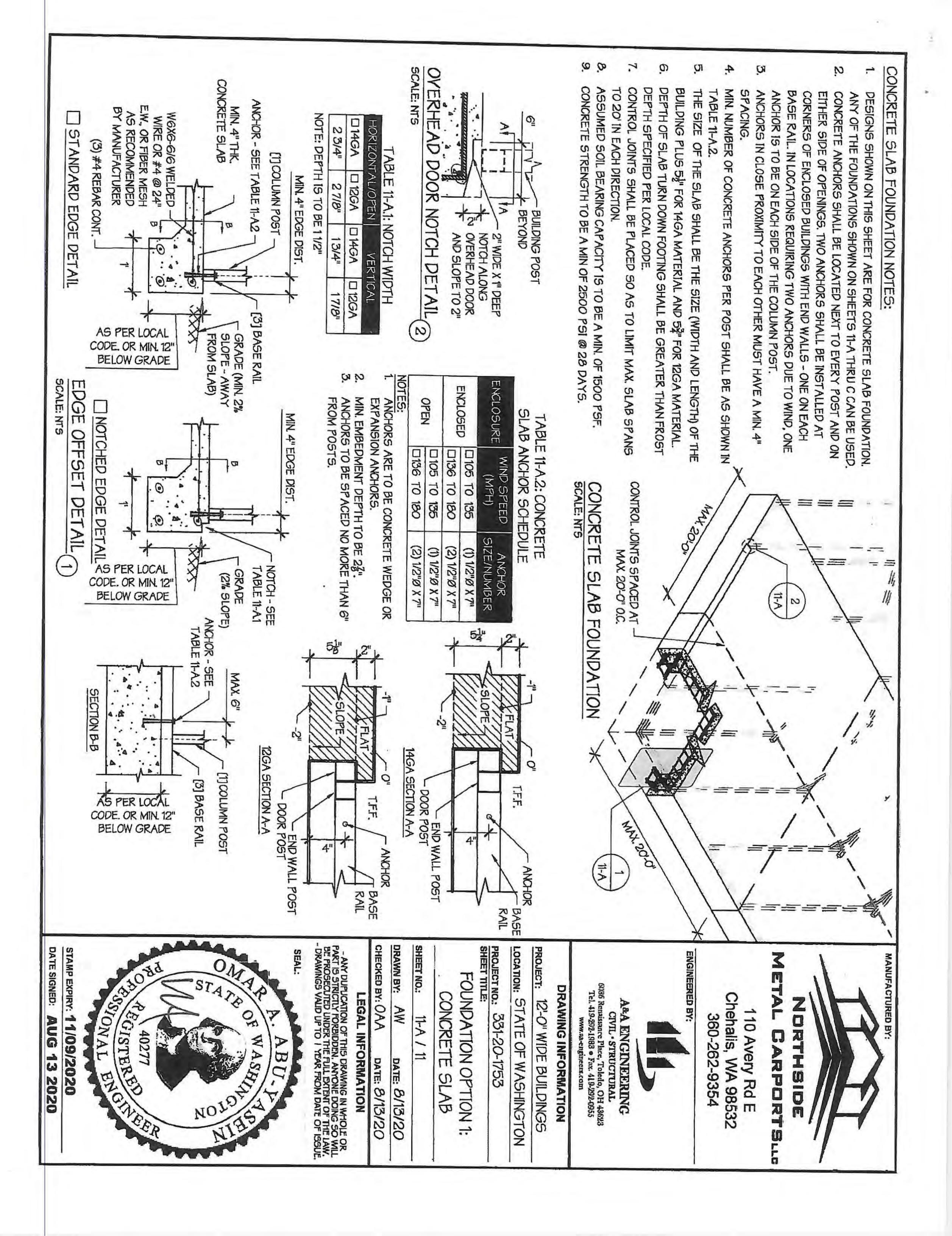
снескер ву: ОАА DRAWN BY: SHEET NO .: ¥ DATE: 8/13/20 DATE: 8/13/20

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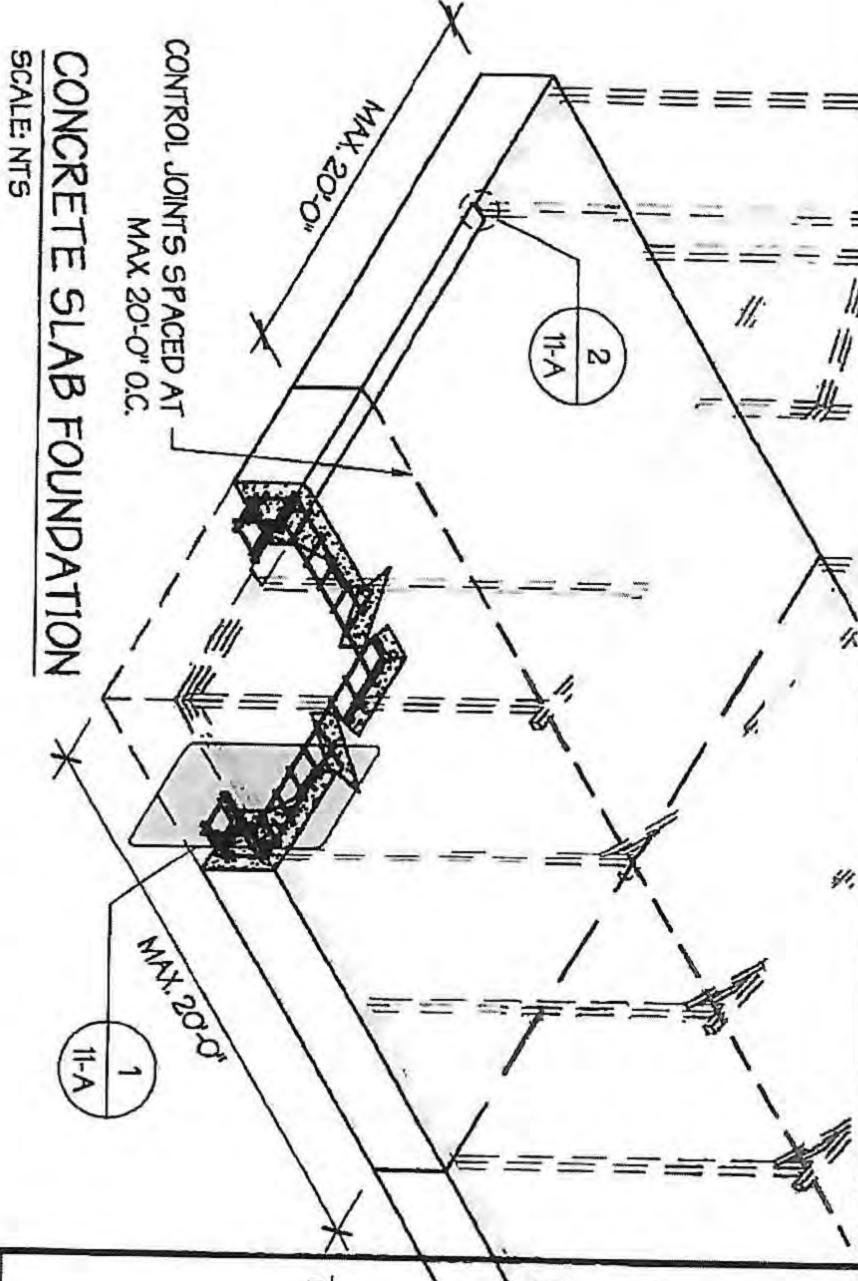
- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.





CONCRETE SLAB FOUNDATION NOTES:

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



ABLE 11-A.1: CONCRETE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCI OSED	□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 X7"

ANCHORS ARE TO BE CONCRETE WEDGE OF EXPANSION ANCHORS.

SCALE: NTS

CONCRETE SLAB

MIN. 4" THK.

ANCHOR - SEE TABLE 11-A.1

[7] BASE ANGLE

MIN. 4" EDGE DIST.

[1] COLUMN

POST

[3] BASE RAIL

ANCHOR - SEE TABLE 11-A.1

[1] COLUMN POST _ [3] BASE RAIL

WIRE OR #4 @ 24"
E.W.OR FIBER MESH
AS RECOMMENDED
BY MANUFACTURER

(3) #4 REBAR CONT.

IEDGE FLUSH

R

SCALE: NTS

W6X6-6/6 WELDED

DD

0

OVERHEAD

DOOR

NOTCH DETAIL

2

٥

BEYOND POST

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NOTCH ALONG

2" WIDE X 1" DEEP

OVERHEAD DOOR

3"

0

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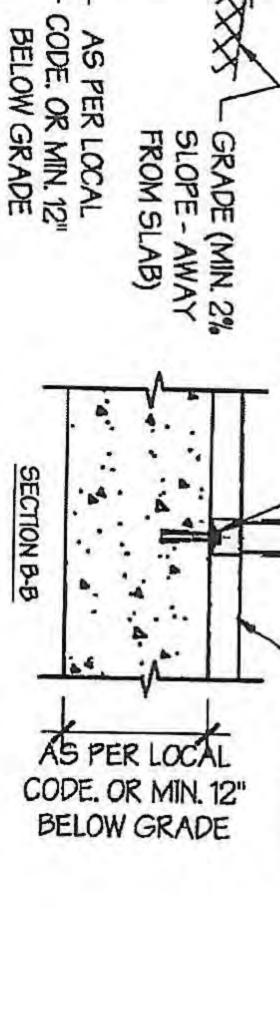
AND SLOPE TO 2"

 \rightarrow

SLAB ANCHOR SCHEDULE

		CF & AI			
NOTES:	Z.	OPEN	וו יסייסטרט	FNCIOSED	ENCLOSURE
	□136 TO 180	□105 T0 135	□136 TO 180	□105 10 135	WIND SPEED (MPH)
	(2) 1/2"Ø X 7"	(1) 1/2"Ø x 7"	(2) 1/2"Ø X 7"	(1) 1/2"Ø x 7"	ANCHOR SIZE/NUMBER

SECTION A-A Q DOOR POST ANCYCR BAS Oi to MIN. EMBEDMENT DEPTH TO BE 28". ANCHORS TO BE SPACED NO MORE THAN 6" ROM POSTS.



MANUFACTURED BY:

METAL DRTHSION CARPORT SILE

Chehalis, 110 Avery Rd E 360-262-9354 WA 98532

ENGINEERED BY:



6036 Renaissance Place, Toledo, OH 43628 Tel. 419-292-1983 v Fax. 419-292-0955 A&A ENGINEERING CIVIL · STRUCTURAL www.aa-engineers.com

DRAWING INFORMATION

SHEET TITLE: LOCATION: STATE OF WASHINGTON 12'-0" WIDE BUILDINGS 331-20-1753

FLUSH CONCRETE FOUNDATION OPTION 1: SLAB

CHECKED BY: OAA DRAWN BY: SHEET NO,: AW DATE: 8/13/20 DATE: 8/13/20

11-A

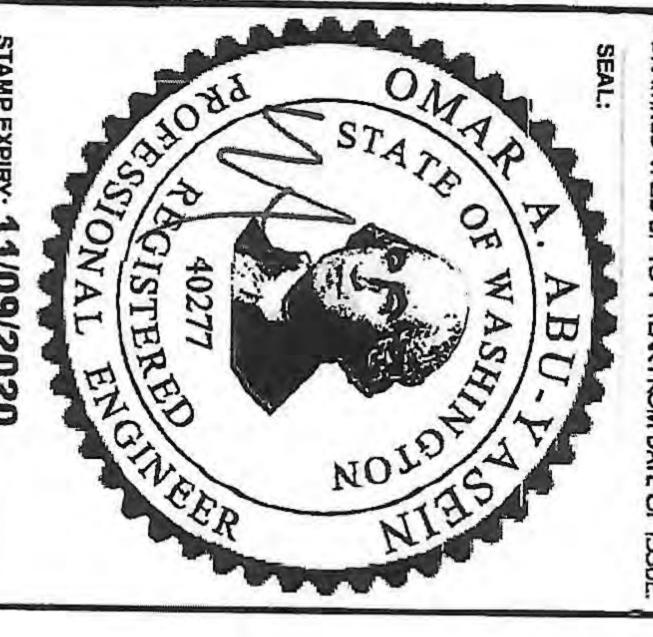
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LEGAL INFORMATION

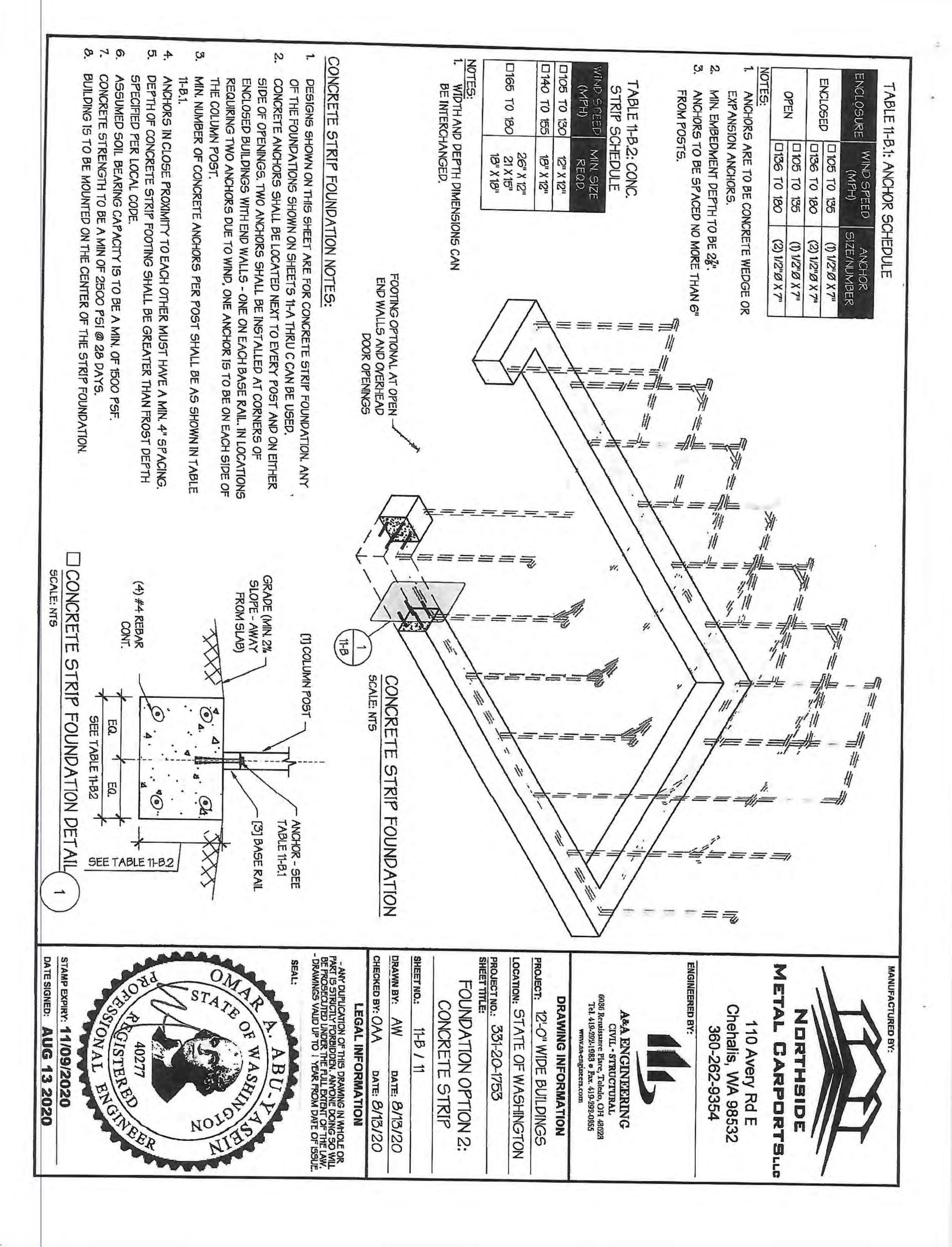
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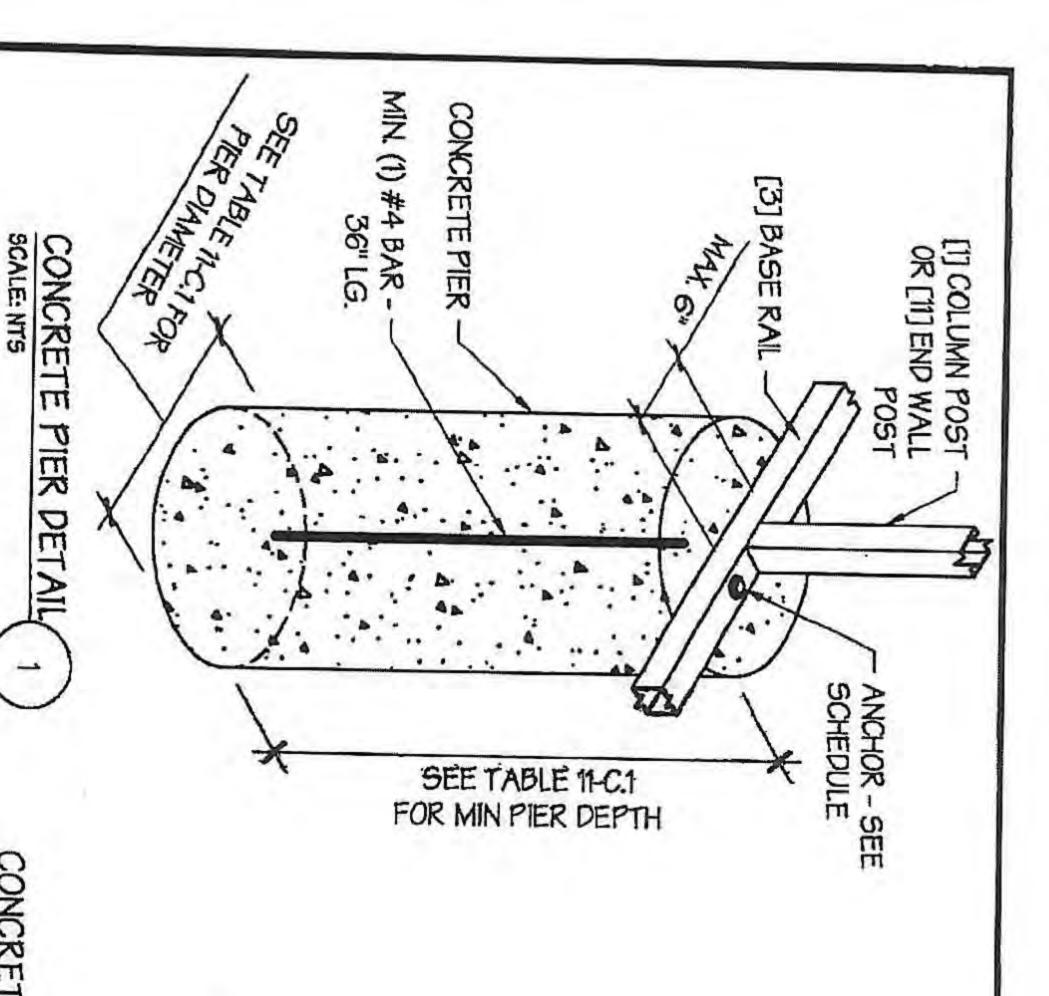
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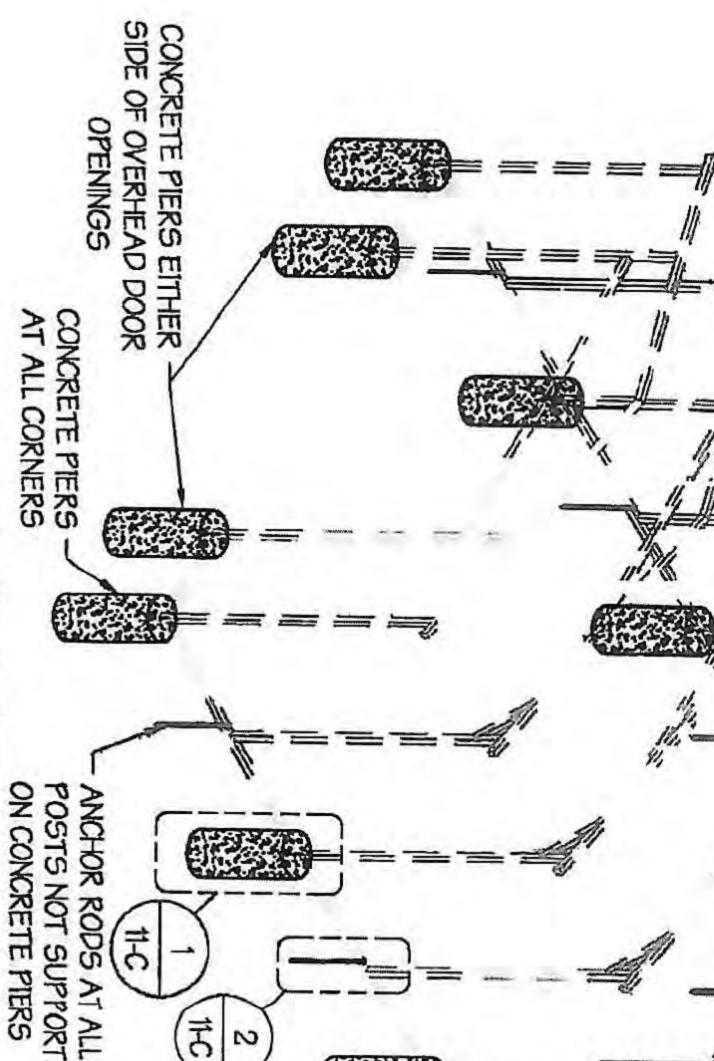


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COLUMN POSTS

ALTERNATE IN

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CONCRETE PIERS AT

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2

END WALL POSTS

CONCRETE PIERS

ENGINEERED BY:

Chehalis, WA 98532

360-262-9354

110 Avery Rd E

JORTHSIDE

GARPORT

SLE

MANUFACTURED BY:

CONCRETE PIER FOUNDA FOUNDATION NOTES:

N CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS, FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED. SHEET ARE FOR CONCRETE PIER

ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON

ALTERNATE INTERIOR COLUMN POSTS AND END WALLS

[3] BASE RAIL

ANCHOR ROD

P0515.

44.0

OR [11] END WALL

POST

- S BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF COLUMN POST WITH A PIER. TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH
- Ċ 4. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE MIN. 4" SPACING.
- MIN. NUMBER OF PIER SHALL BE AS SHOWN IN TABLE 11-C.2. CONCRETE ANCHORS PER POST WITH A
- 9 BRACING LOCAT TWO ANCHORS / IONS WHEN REQUIRED. IND A PIER ARE REQUIRED AT DIAGONAL
- .7 THE TOP AND ONE COAT OF RUST PROOF MATERIAL. BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ALL POSTS NOT THREADED ROD. RODS WILL HAVE A PRE-FORMED HEAD AT SUPPORTED ON CONCRETE PIERS SHALL

SCALE: NTS

TABLE 11-C.1: CONC.

PIEK REIN

SCHEDULE

ANCHOR ROD INTO SOIL

- 9 Ö PIERS SHALL BE INTO THE PIERS ASSUMED SOIL WITH CONCRETE SAME SIZE AS T BEARING CAPACITY IS TO BE A MIN. OF PRIOR TO POURING THE CONCRETE THRD. ROD ANCHORS SHOULD BE DROPPED HE PIER ON LEYEL GRADE AND FILLING IT FORMED BY DIGGING A HOLE OF THE
- 0 CONCRETE 1500 PSF. STRE NGTH TO BE A MIN OF 2500 PSI @ 28

DATE SIGNED:

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01 O41 D

155

18"Ø X 42"

□105 TO 130

18"Ø X 36"

WIND SPEED

MIN SIZE

REQD.

(MPH)

165

る

8

18"Ø X 48"

TABLE 11-C.2: ANCHOR SCHEDULE

		NOTES:
(2) 1/2"Ø X 7"	□136 TO 180	5
(1) 1/2" Ø X 7"	□105 TO 135	NEWO
(2) 1/2"Ø X 7"	□136 TO 180	רואסרסטרט
(1) 1/2"Ø X 7"	□105 TO 135	ENCI OSED
SIZE/NUMBER	(MPH)	ENGLOSOKE
ANCHOR	WIND SPEED	ENCLOCUES
ANCHOR	WIND SPEED	m

- EXPANSION ANCHORS. ANCHORS ARE TO BE CONCRETE WEDG EOR
- MIN. EMBEDMENT DEPTH TO BE 28".
- FROM POSTS. ANCHORS TO BE SPACED NO MORE THAN 6"

S

in

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

SHEET TITLE: LOCATION: PROJECT: STATE OF WASHINGTON 12'-O" WIDE BUILDINGS 331-20-1753

FOUNDATION OPTION CONCRETE PIERS Ç

DRAWN BY: * DATE: 8/13/20

SHEET NO .:

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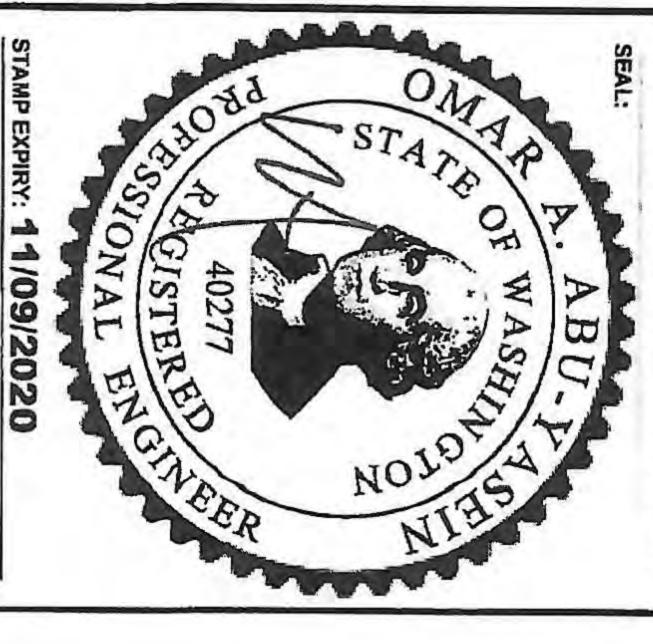
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снескер ву: ОАА DATE: 8/13/20

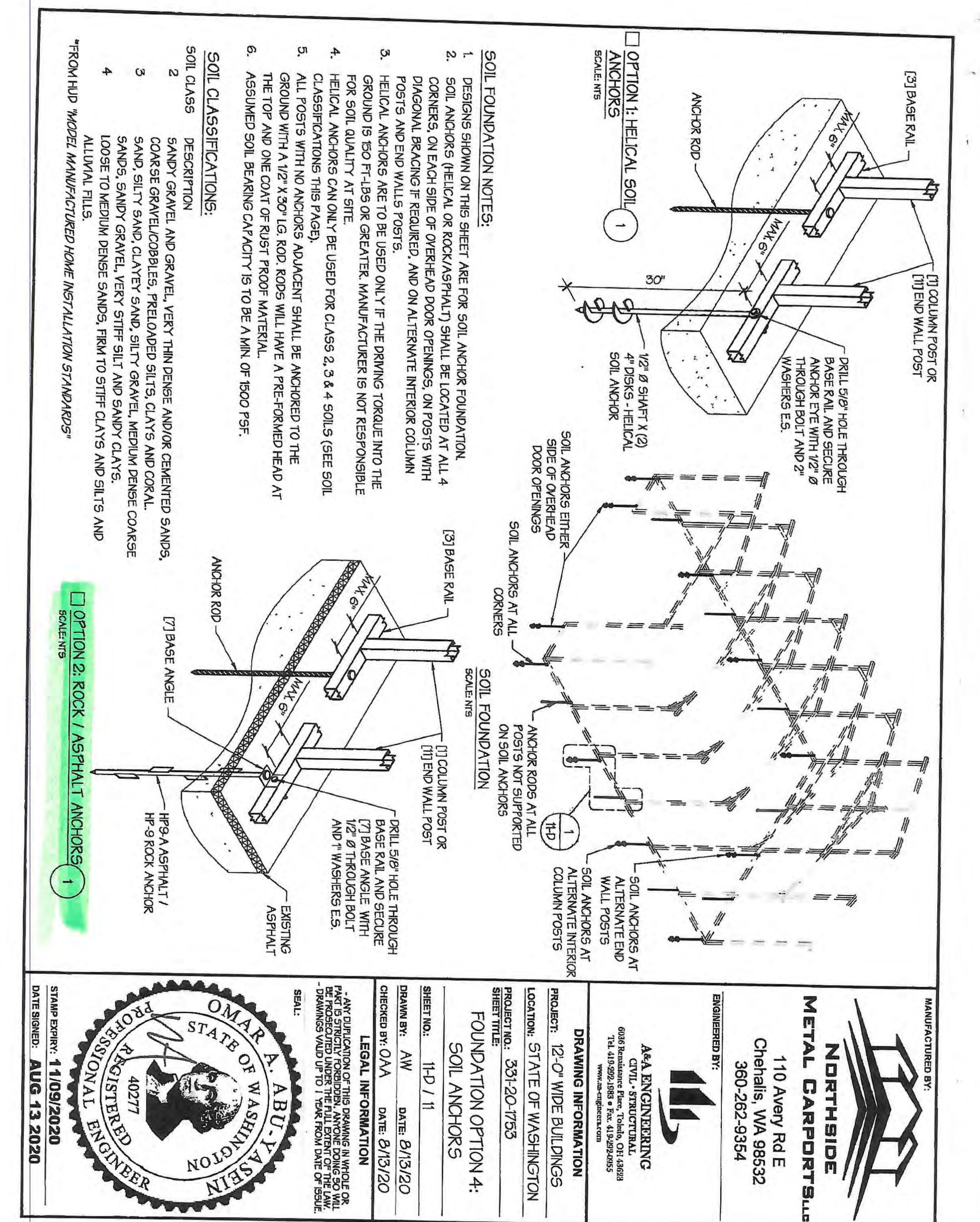
LEGAL INFORMATION

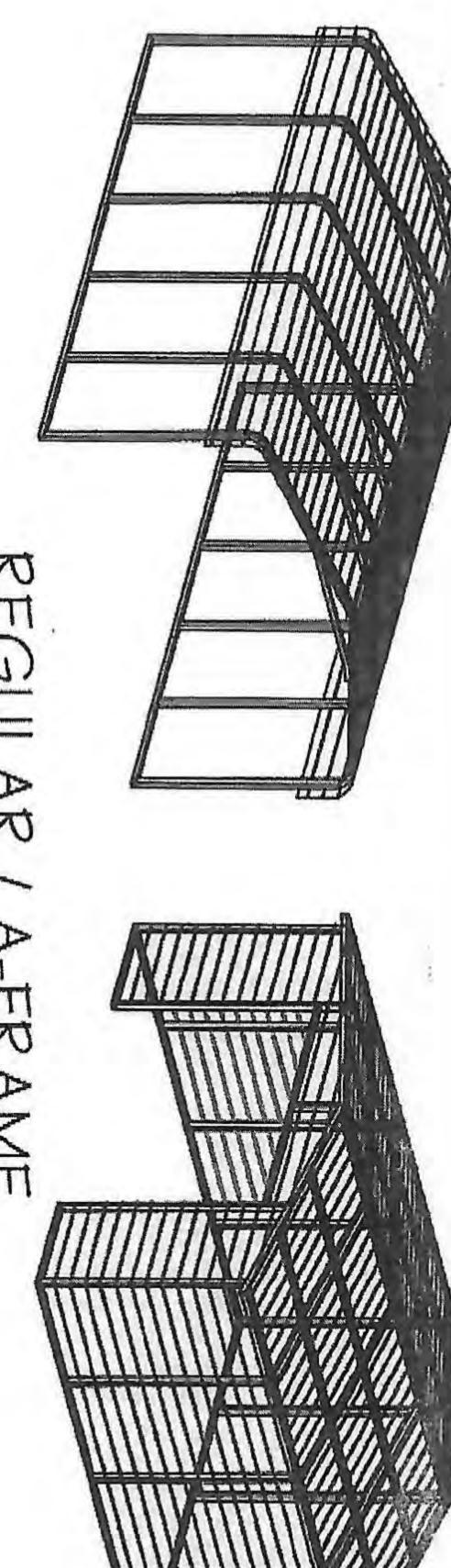
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- DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE









24 WIDE FRA

CARPORT S BUILDINGS

DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2018, 05HA, AISC 360, AISI 100, ASCE 7-16, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- N BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.

10 -

PEAD LOAD (D) D = ...

O ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL

S

IMPORTANCE FACTOR

SNOW LOAD (S)
GROUND SNOW LOAD

- 4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
- (U ALL FIELD CONNECTIONS SHALL BE #12"X1" SDS (ESR-2196 OR EQ).
- (O) STEEL SHEATHING SHALL BE 29GA, CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT, 3/4" [FY=80K5I] OR EQ.
- .1 ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.

S

EXPOSURE
SEISMIC LOAD (E)
DESIGN CATEGORY
IMPORTANCE FACTOR

ic = 1.00

D

CORNER BRACING DETAILS

& OPENINGS

9

O

Ö

4.

WIND LOAD (W) BASIC WIND SPEED

250

= 105

ROOF SLOPE FACTOR

05 = 10

EXPOSURE FACTOR

THERMAL FACTOR

Pg = 20 Is = 0.8 Ct = 1.2 Ce = 1.0

90

Ø STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA, IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.

LOAD

COMBINATIONS:

9+

+ (Lr OR S) + (0.6W OR ±0.7E)

- 0, w 4.

4 +

0.6

D + (0.6W OR ±0.7E)

0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)

Ø 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: RISK CATEGORY:

WSBC (IBC 2018)
U (CARPORTS, BARNS)

SCHEDULES & COVER SHEET SECTIONS MEMBER -

(AS PER SNOW LOAD SEE TABLE 4) SPACING SCHEDULES & ENCLOSURE NOTES

180 MPH END WALL FRAMING SIDE WALL FRAMING SHEATHING OPTIONS PURLIN & GIRT SCHEDULES & OPENINGS

DRAWING INDEX

FRAME SECTIONS & DETAILS

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7-8 0)

FOUNDATION OPTIONS OPTIONAL LEAN-TO ADDITION 11-A TO 40

ENGINEERED BY:

Chehalis,

WA 98532

360-262-9354

110 Avery Rd E

ZMTAL

GARPORTSL

JORTHSIDE

MANUFACTURED BY:

6035 Remaissance Place, Tokelo, OH 43623 Tel 419-292-1983 • Fax. 419-292-1955 A&A ENGINEERING CIVIL-STRUCTURAL

DRAWING INFORMATION

24'-O" WIDE BUILDINGS

SHEET TITLE: PROJECT: LOCATION: STATE OF WASHINGTON 331-20-1753

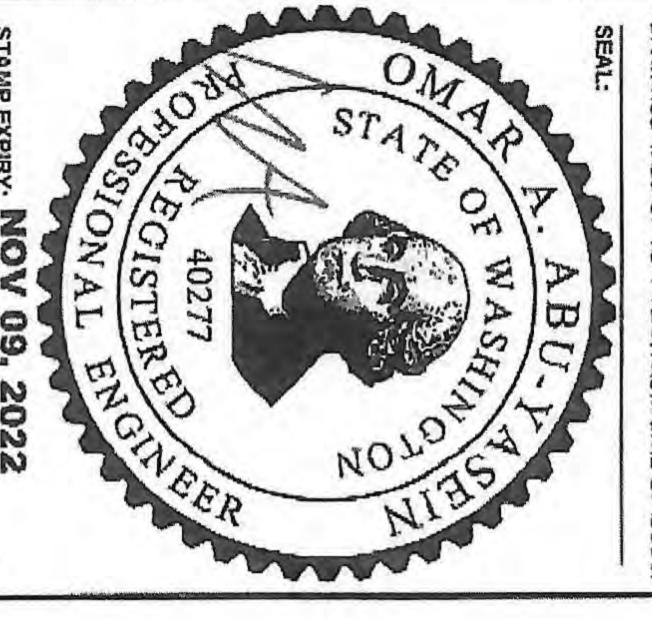
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снескер ву: ОАА SHEET NO .: DRAWN BY: A.W. \Rightarrow DATE: 5/5/21 DATE 5/5/21

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			CUSTOMER INFORMATION
BASIC WIND SPEED:	ROOF LIVE LOAD:	GROUND SNOW:	DESIGN LOADS
HEIGHT:	LENGTH:	WIDTH:	BUILDING
TYPE:	ENCLOSURE	FRAME TYPE:	BUILDING INFORMATION
☐ OPEN	and the same	☐ A-FRAME ☐ REGULAR	NC
VALID FOR ONE	EXPIRATION:	DATE OF PLAN	CERTIFIC

ADDRESS:

ICATION VALIDITY NOTICE AUG 13, 2021

ON ON THESE DRAWINGS IS EYEAR FROM DATE OF ISSUE

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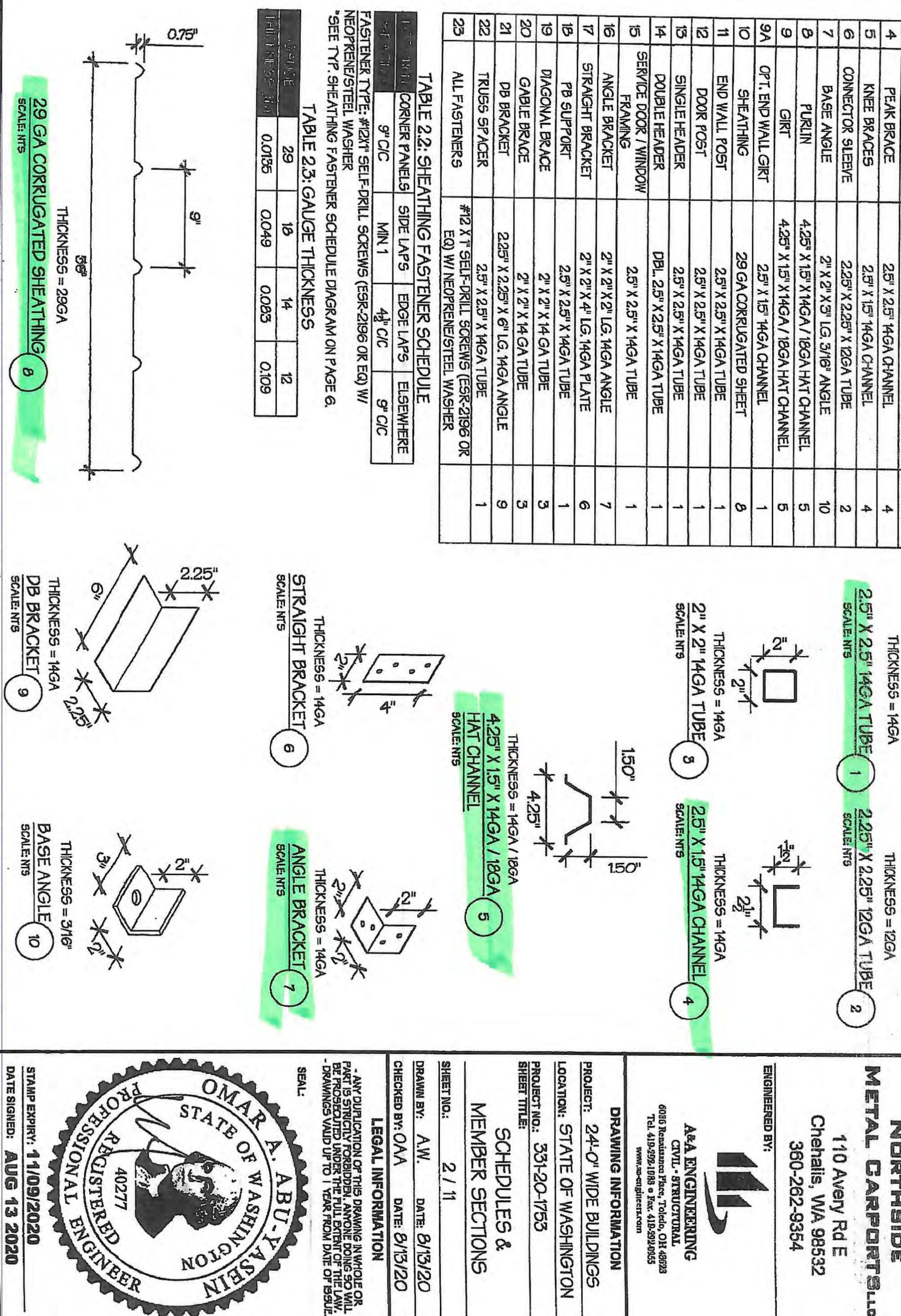
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DATE SIGNED:

APR

30,

2021



MEMBER

SECTIONS

SCHEDULES

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LEGAL INFORMATION

DATE: 8/13/20

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13 2020

11/09/2020

A.W.

DATE

8/13/20

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6086 Renaissance Place, Toledo, OH 48623 Tel. 419-292-1988 e Fax. 419-292-0955

A&A ENGINEERING

CIVIL - STRUCTURAL

DRAWING INFORMATION

24'-0" WIDE BUILDINGS

STATE OF WASHINGTON

331-20-1753



A Maria

Chehalis,

WA 98532

360-262-9354

110 Avery Rd E

CARPORTSLL

N

ROOF BEAM

BASERAIL

2.5" X 2.5" X 14GA TUBE

25" X 25" X 14GA TUBE

2.5" X 2.5" X 14GA TUBE

・アスのアスカー

DETAIL NO

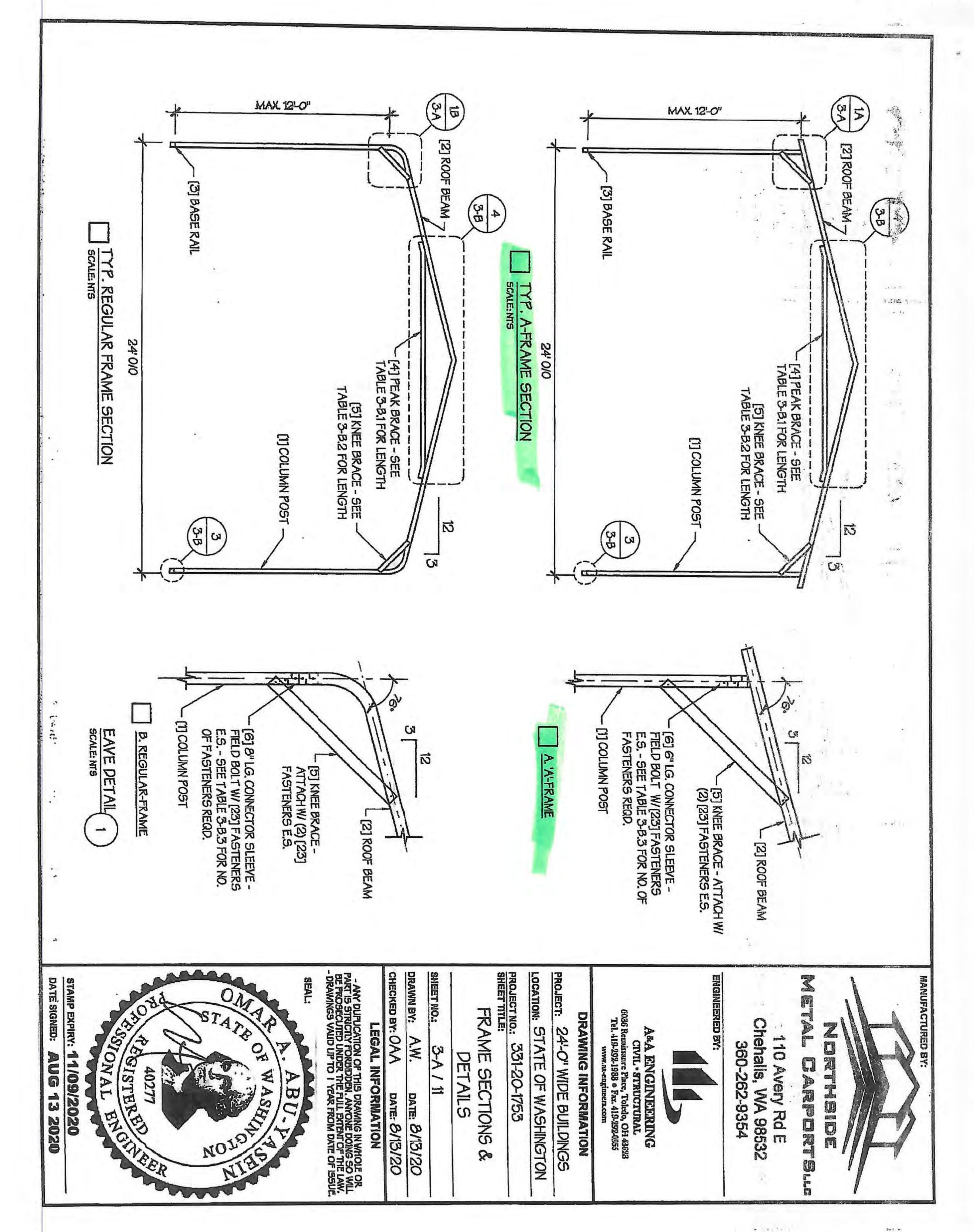
COLUMN POST

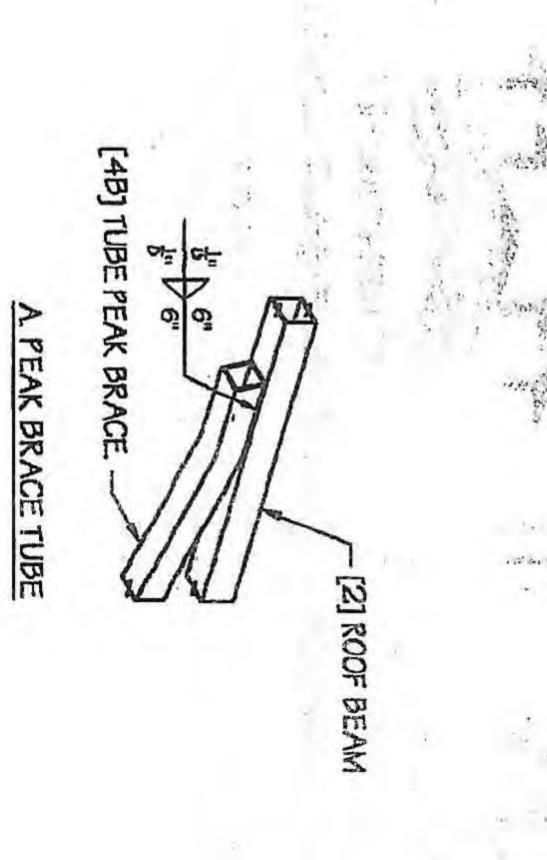
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TABLE

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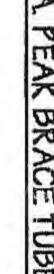
MEMBER PROPERTIES



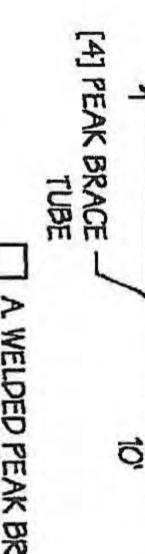


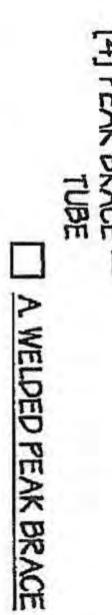
[2] ROOF BEAM

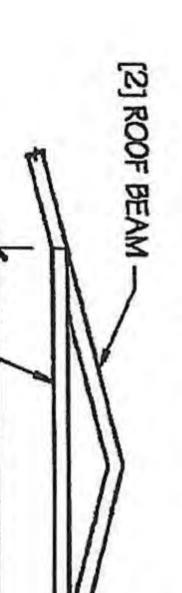
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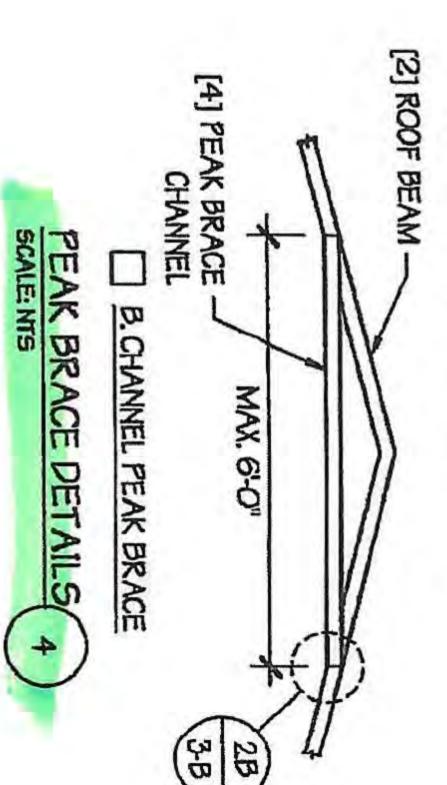












[2] ROOF BEAM

B. PEAK BRACE CHANNEL

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

PEAK BRACE CONNECTION DETAILS

[6] 6" LG. CONNECTOR SLEEVE. -FIELD BOLT W/ [23] FASTENERS - SEE TABLE 3-B.3 FOR NO. OF FASTENERS REQD. [3] BASE RAIL TYP. Y BASE DETAIL 여름 여름 [I] COLUMN POST

GROUND SNOW / ROOF LIVE LOAD (PSF)

□105 TO 130

□140 TO 180

Ø

o'

FABLE 3-B2: KNEE

BRACE

SCHEDULE

EAVE FEIGHT

KNEE BRACE

LENGTH

DSTO12

8

口 (SO) 口

10.180

O

24

...

DUP TO 8'

Q

Q

030/20

TABLE 3-B.1: PEAK

BRACE SCHEDULE

WIND SPEED

WIND SPEED WIF!-! TABLE 3-B.3 FASTENER SCHEDULE □ 105 TO 125 **130** TO 55 4 0

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



CHAPTER . .

ETAL GARPORT

Chehalis, WA 98532 110 Avery Rd E 360-262-9354



5036 Renaissance Place, Toledo, OH 43628 Tel. 419-292-1988 v Fax. 419-292-0955 A&A ENGINEERING CIVIL · STRUCTURAL www.aa-engineera.com

DRAWING INFORMATION

PROJECT: LOCATION: STATE OF WASHINGTON 24'-O" WIDE BUILDINGS 331-20-1753

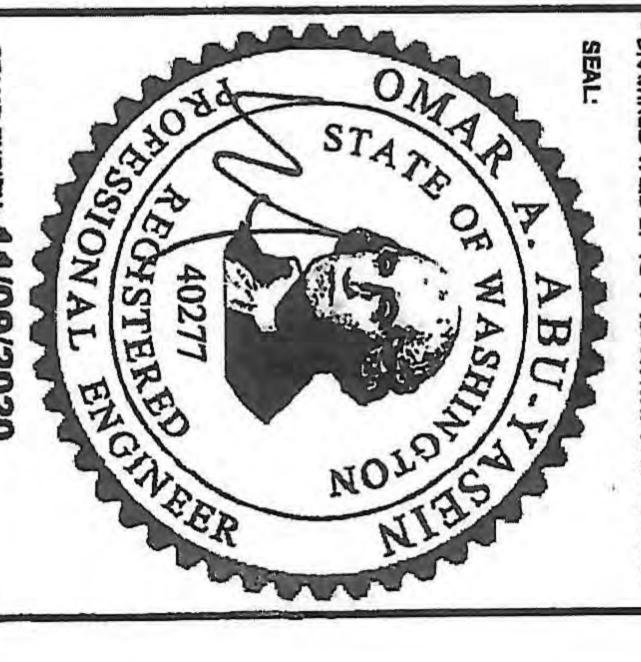
FRAME DETAILS

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	24	30	36	40/48	10,00	48/60	3	1	24	8	8	40/48	48/60	8	1 1	24	8	36	40/48	48/60	8	- B		
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-NOTES:

- Oin 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.

ENG OSURE CLASSIFICATION:

- ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
- in OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SP, ACING CHART.
- S 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 REDUCE SPACING BY 6". SPACING CHART AND THEN
- Ö ENCLOSED BUILDING SPACING + THE OPEN END FRAME OR HAVE DOUBLED WELDED LEGS & ROOF. 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
- Ö 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 BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH LENGTH OF CAN BE INCREASED BUILDING.
- 'n 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).
- U ALL BUILDINGS WITH AN OPENIEND WALL MUST HAVE 10-0 TUBE PE AR BRAGE 18.00 4.3

17

OPEN END WALL

SN 3

ENCLOSED BUILDING

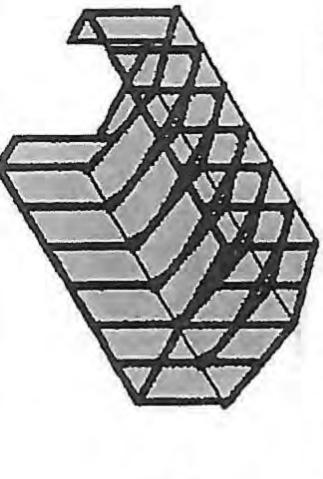
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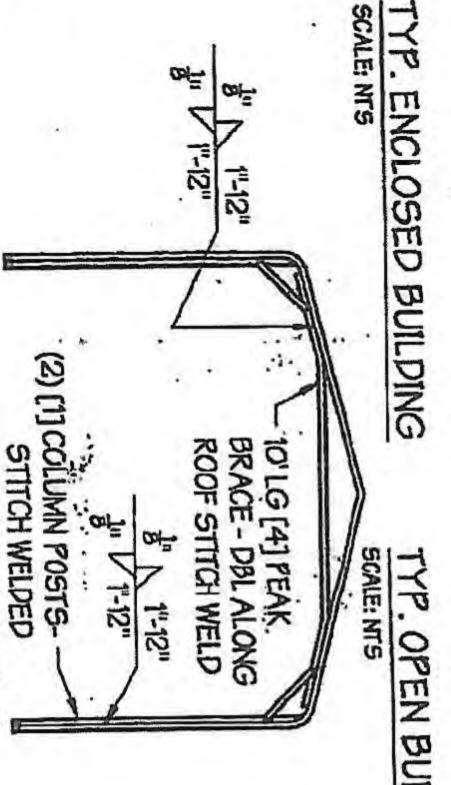
11/09/2020

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ORTHBIDE CARPORTS

MANUFACTURED BY:

. 1 42 7. 1

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FRAME

SPACING

CHART

SCHEDULE

110 Avery Rd E

5

Chehalis, WA 98532 360-262-9354

ENGINEERED BY:

6036 Renaissance Place, Toledo, OH 48628 Tel 419-292-1983 e Fax. 419-292-0955 A&A ENGINEERING CIVIL - STRUCTURAL ww.ax-engineers.com

DRAWING INFORMATION 24'-0" WIDE BUILDINGS

SHEET TITLE: LOCATION: SPACING STATE OF WASHINGTON 331-20-1753 SCHEDULES

снескер ву: ОАА DRAWN BY: SHEET NO .: A.W. = DATE: DATE: 8/13/20 8/13/20

ENCLOSURE NOTES

LEGAL INFORMATION

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3	32	32	36	36	36	36	8	32	32	36	36	36	36	30	32	32	36	36	36	36	8	છ	30	8	30	8	80	24	24	24	24	24	24	24	<u>ფ</u> _	3	点においれにす
8	90	8	8	30	30	8	8	8	30	30	30	30	8	30	30	30	30	30	30	30	30	30	8	8	30	30	30	24	24	24	24	24	24	24	<u>8</u> 0		LIV.

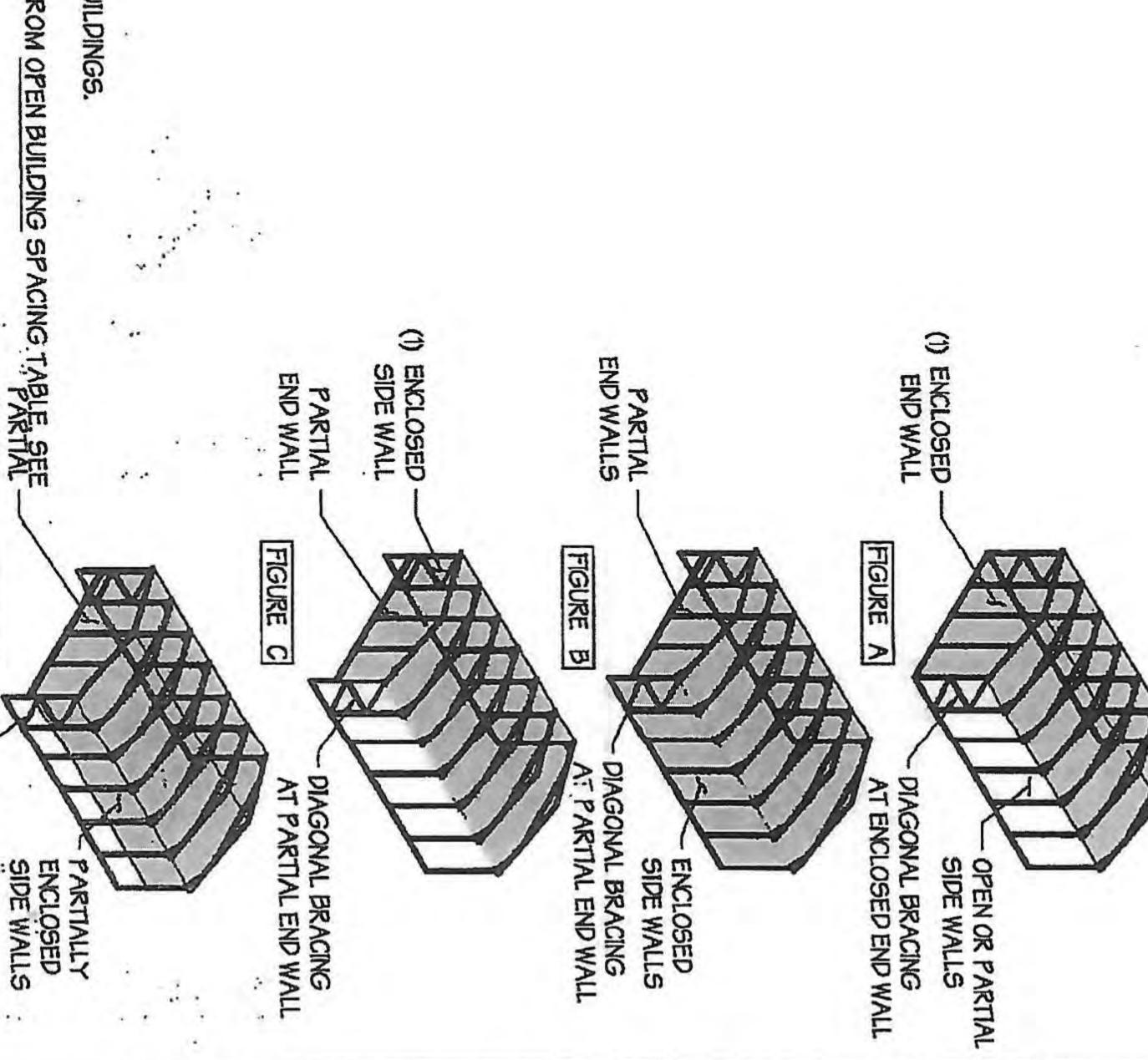
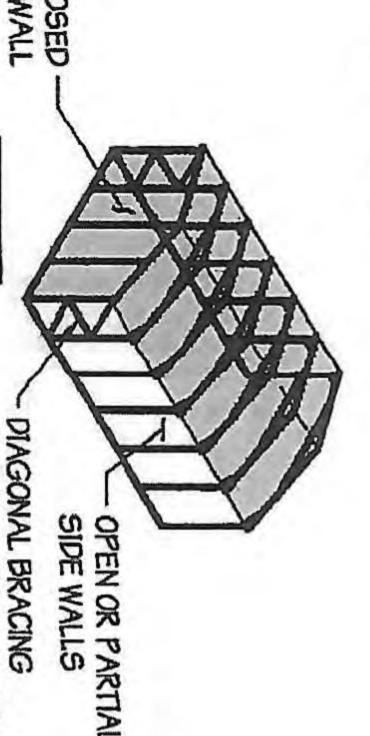


TABLE 5.2: GIRT SPACING SCHEDULE

1000

0.50 TO 3:0"	□3'-6"	04·0"	□4 ¹ -6"		SPACINO	FRANK
80	60	8	89	හි	_	
8	60	60	60	48	्र (ह. =	No.
2	52	2	48	36	, il _	10°0
\$	2	72	42	8	<u>F</u> -	SOFTE
48	48	42	36	24	(is =	
42	42	36	8	2	OF E	
42	42	8	24	ळ	Ğ.	

- 14GA GIRT SPACING UNITS ARE IN INCHES.
 THIS SCHEDULE IS TO BE USED FOR BOTH
- CI FRAME SPACING NEEDS TO BE DETERMINED



SHEET TITLE: LOCATION: PROJECT: DRAWING INFORMATION STATE OF WASHINGTON 24'-0" WIDE BUILDINGS 331-20-1753

снескер ву: ОАА DRAWN BY: SHEET NO. SPACING SCHEDULES PURLIN & GIRT <u>}</u> × \Rightarrow DATE: 8/13/20 DATE: 8/13/20

LEGAL INFORMATION



A. A. IR KEGÜLAR BUILDING'A BUILDINGS WI MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES ... Take: H. 18.25 事等 近天 安排 M428

END WALL

FIGURE

O

DIAGONAL BRACING

AT PARTIAL END WAL

K.K.

S

SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.

in

FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 12" FI SHEET 4 FOR OPEN BUILDING TABLE

IRREGULAR BUILDING NOTES:

1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES

OF IRREGULAR BUILDINGS.

NOTES:

1. PURLIN SPACING UNITS ARE IN INCHES.

2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

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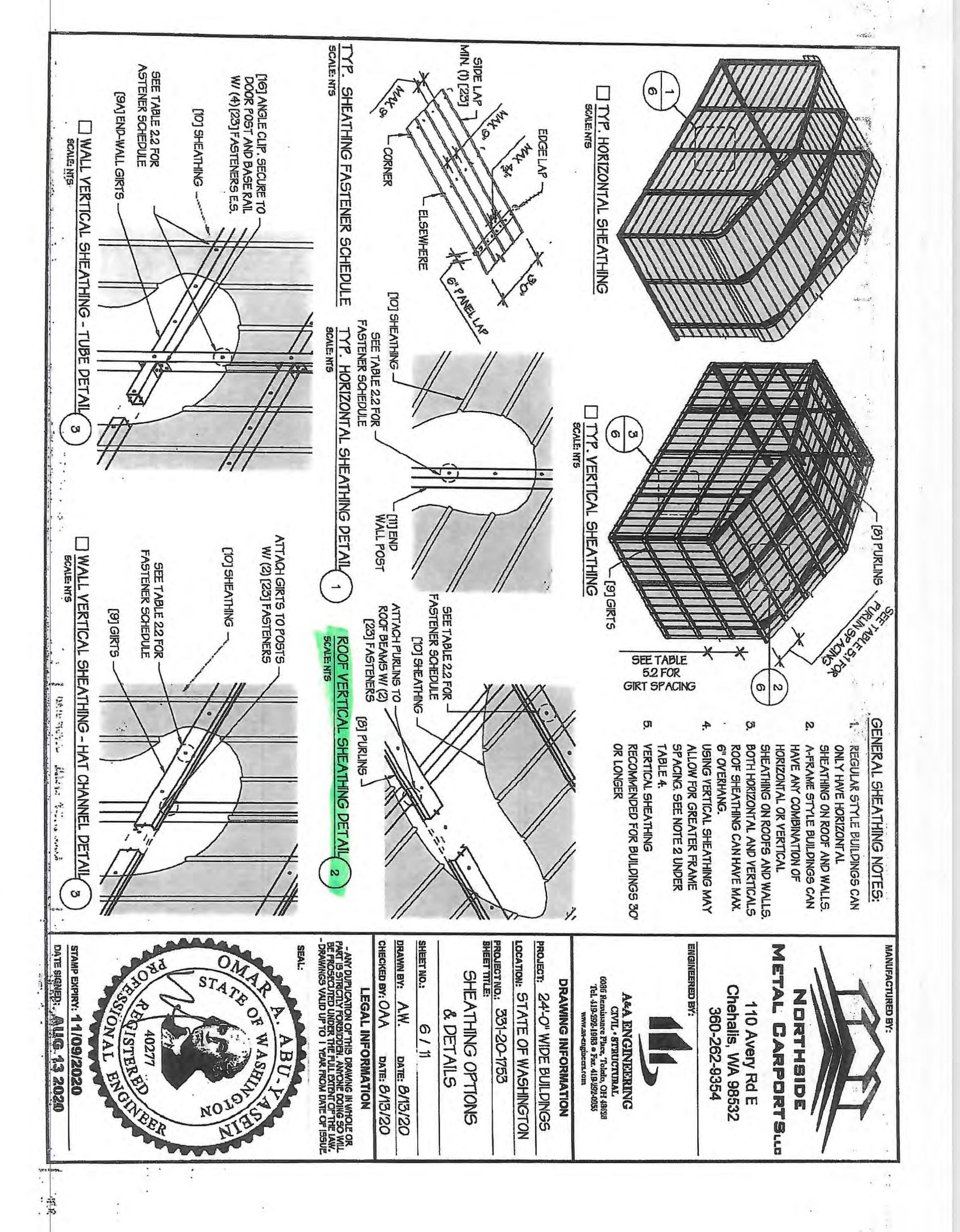
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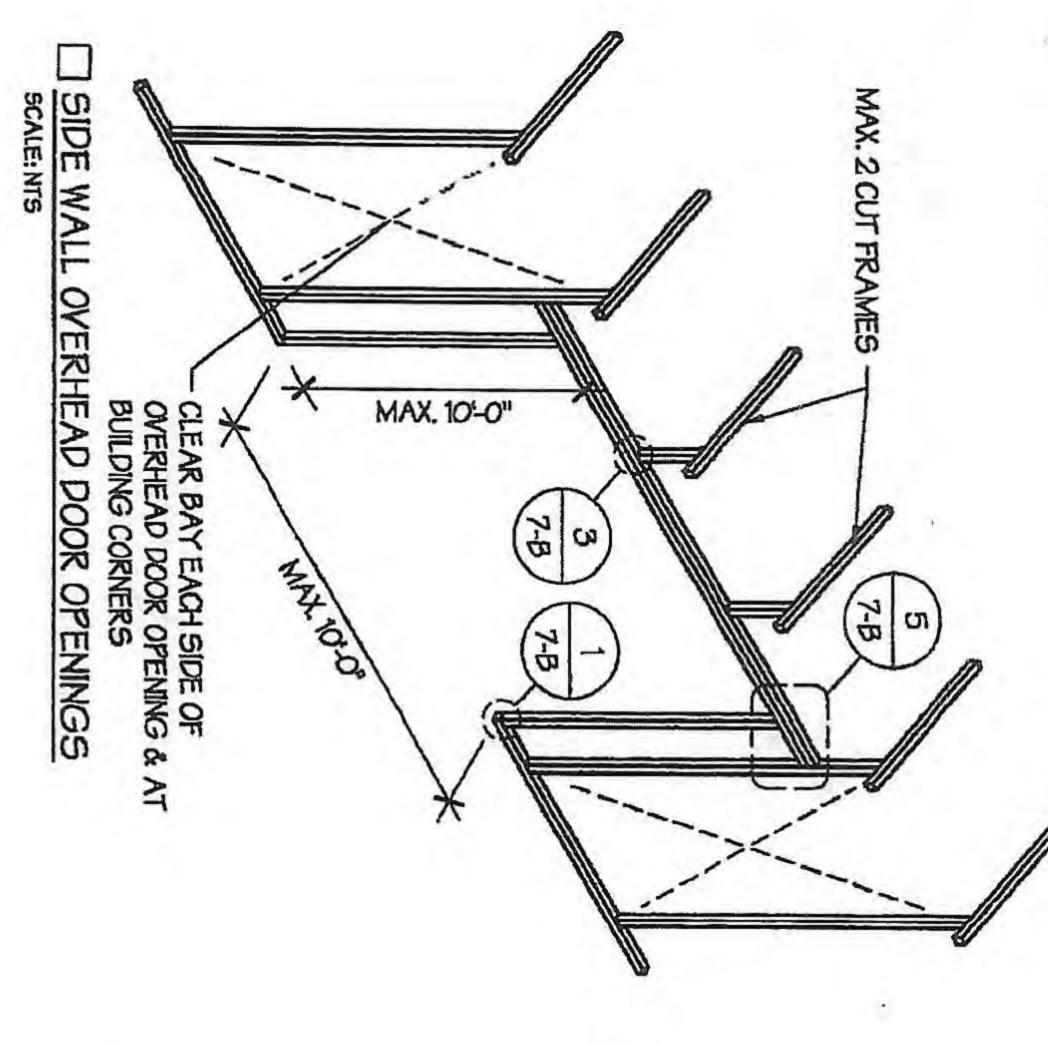
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5035 Renaissance Place, Tolerlo, OH 48623 Tel. 419-292-1988 • Fax. 419-292-0955 A&A ENGINEERING CIVIL - STRUCTURAL поэтазация-ками

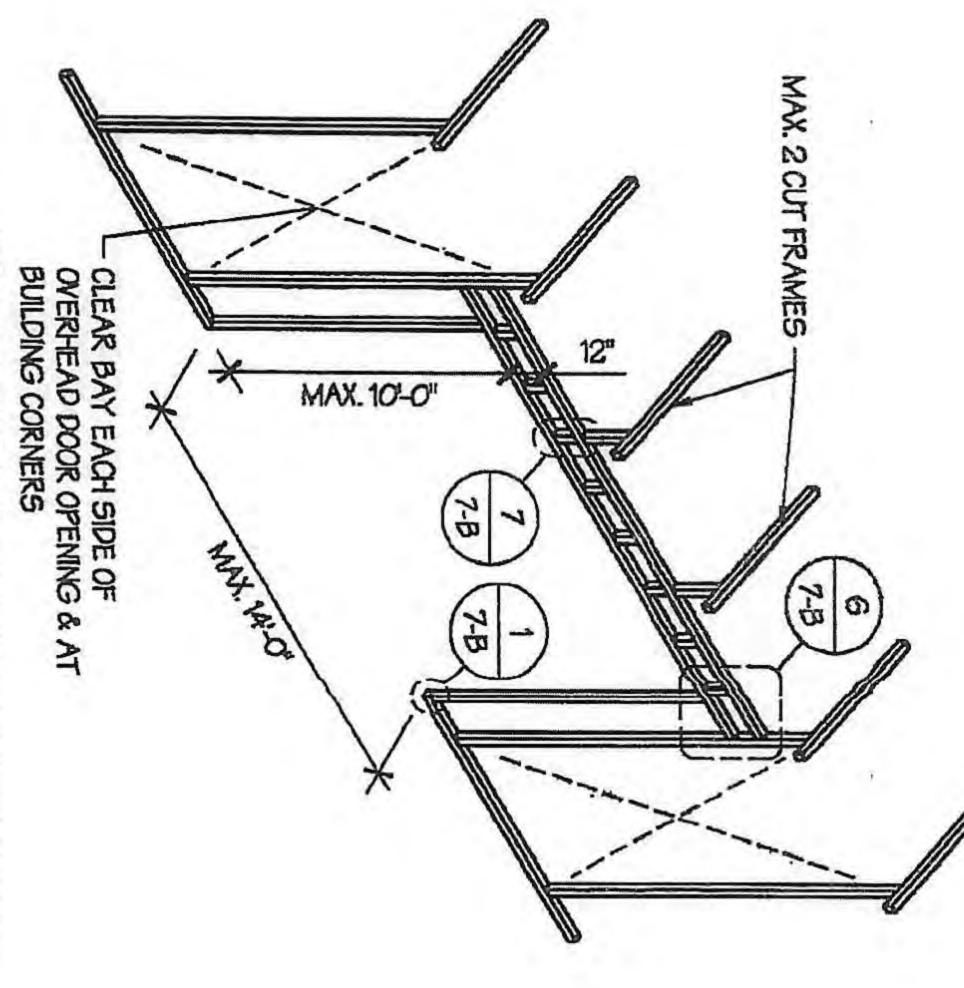
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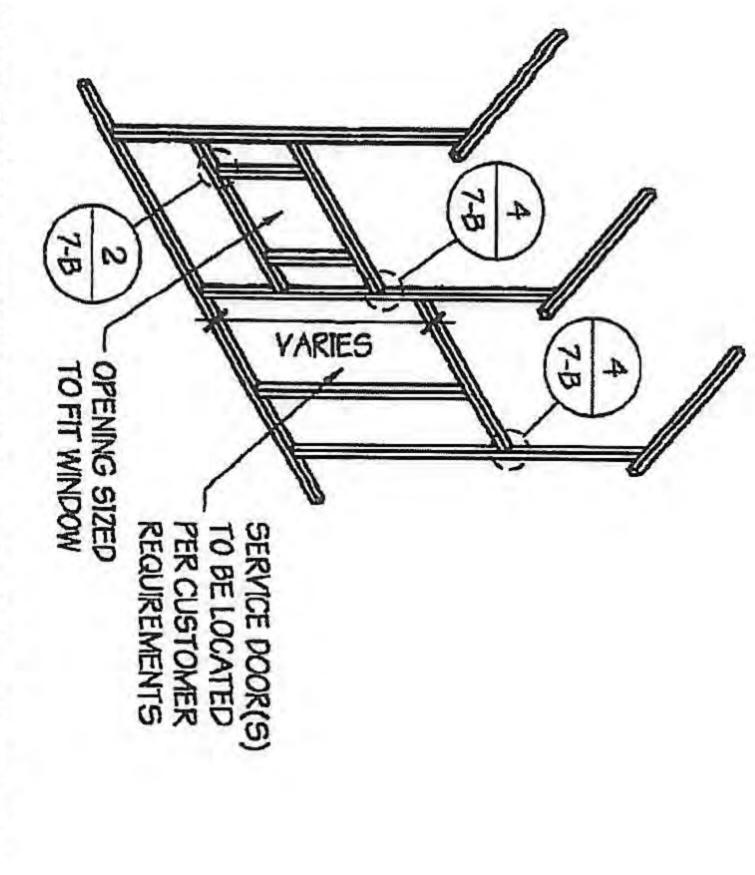
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SIDE WALL SERVICE DOOR / WINDOW OPENINGS

SIDE WALL FRAMING NOTES:

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

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DRAWING INFORMATION 24-0" WIDE BUILDINGS

PROJECT:

LOCATION: STATE OF WASHINGTON 331-20-1753

PROJECT NO.: SIDE WALL FRAMING

SIDE WALL

OVERHEAD DOOR OPENINGS

WITH TRUSS STYLE HEADER

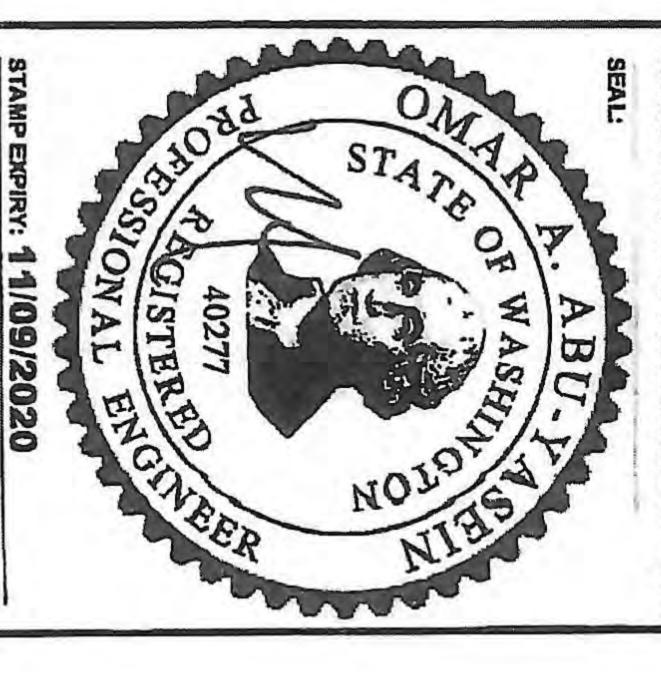
SHEET NO .: & OPENINGS 7-A =

снескев ву: ОАА DRAWN BY: A.W. DATE: 8/13/20 DATE: 8/13/20

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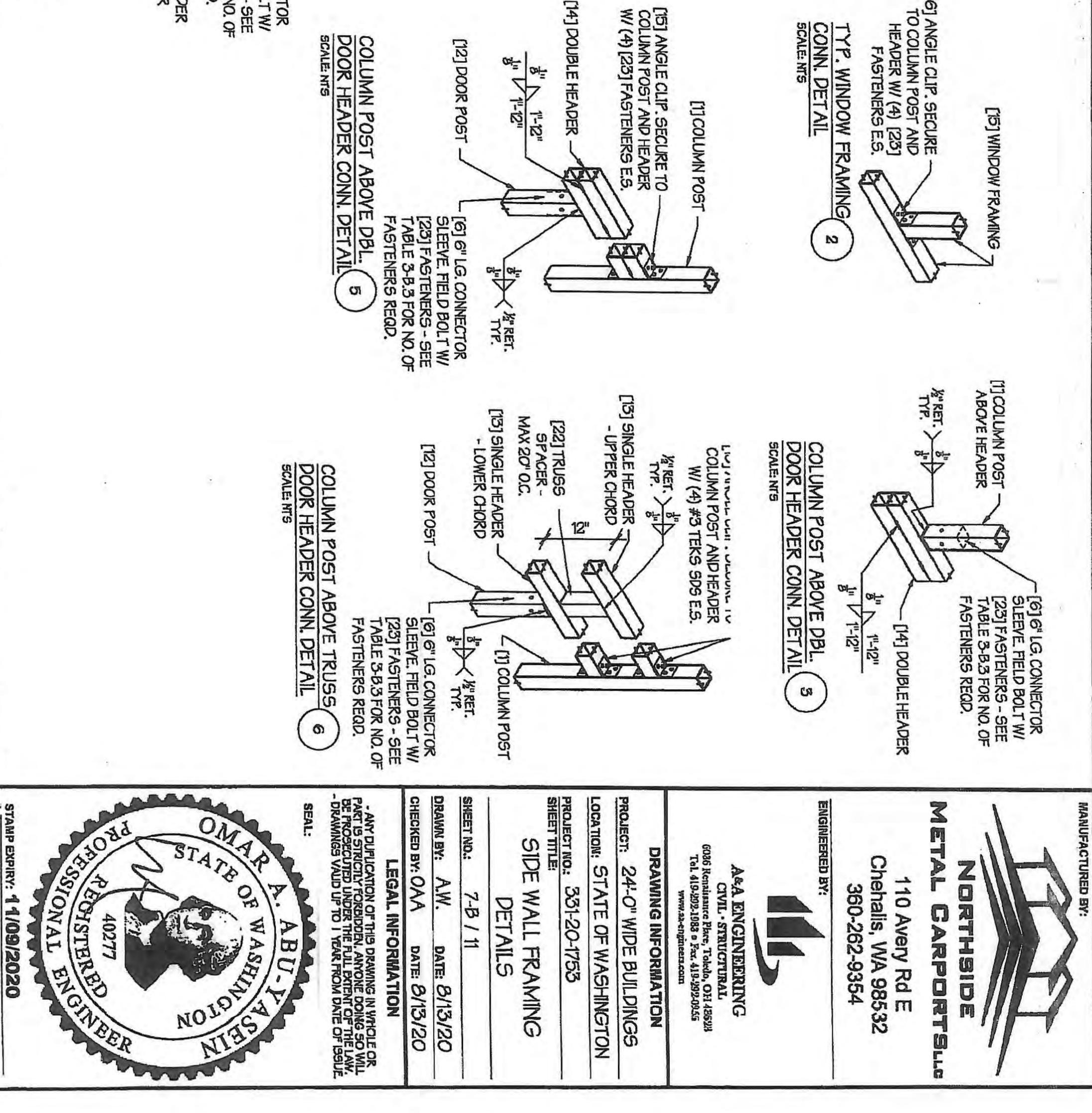
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DOOR HEADER CONN. DETAIL SCALE: NTS

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MINNEY.

MAX 20" O.C. 5PACER -[1] COLUMIN POST M'RET. ABOVE HEADER 0 0 0 0 m - C - [6] 6" LG. CONNECTOR SLEEVE, FIELD BOLT W/ [23] FASTENERS - SEE TABLE 3-B.3 FOR NO. OF FASTENERS REQD. CHORDS [13] SINGLE HEADER UPPER & LOWER \%"RET.

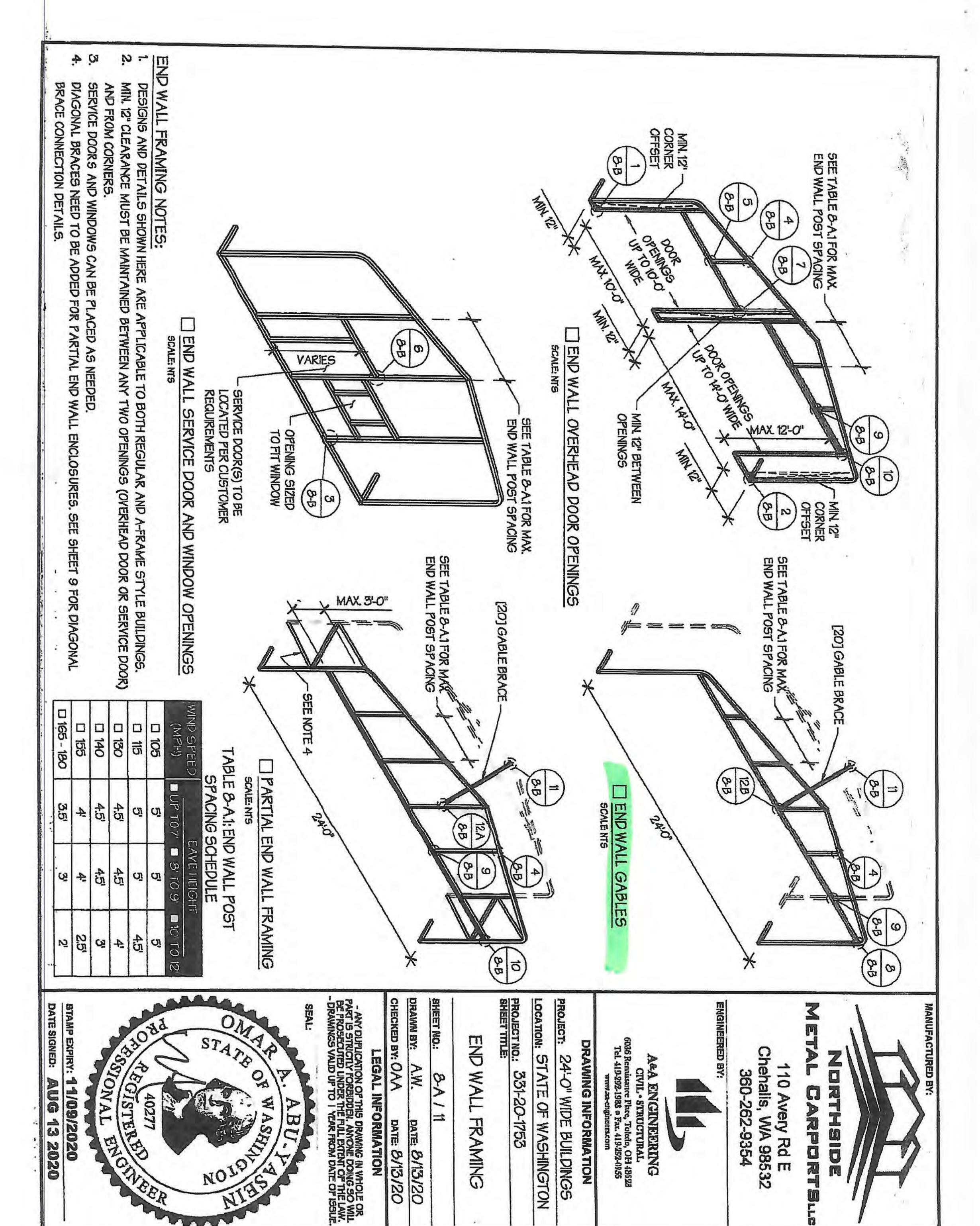
FRAMING CONN. SERVICE DOOR / WINDOW DETAIL

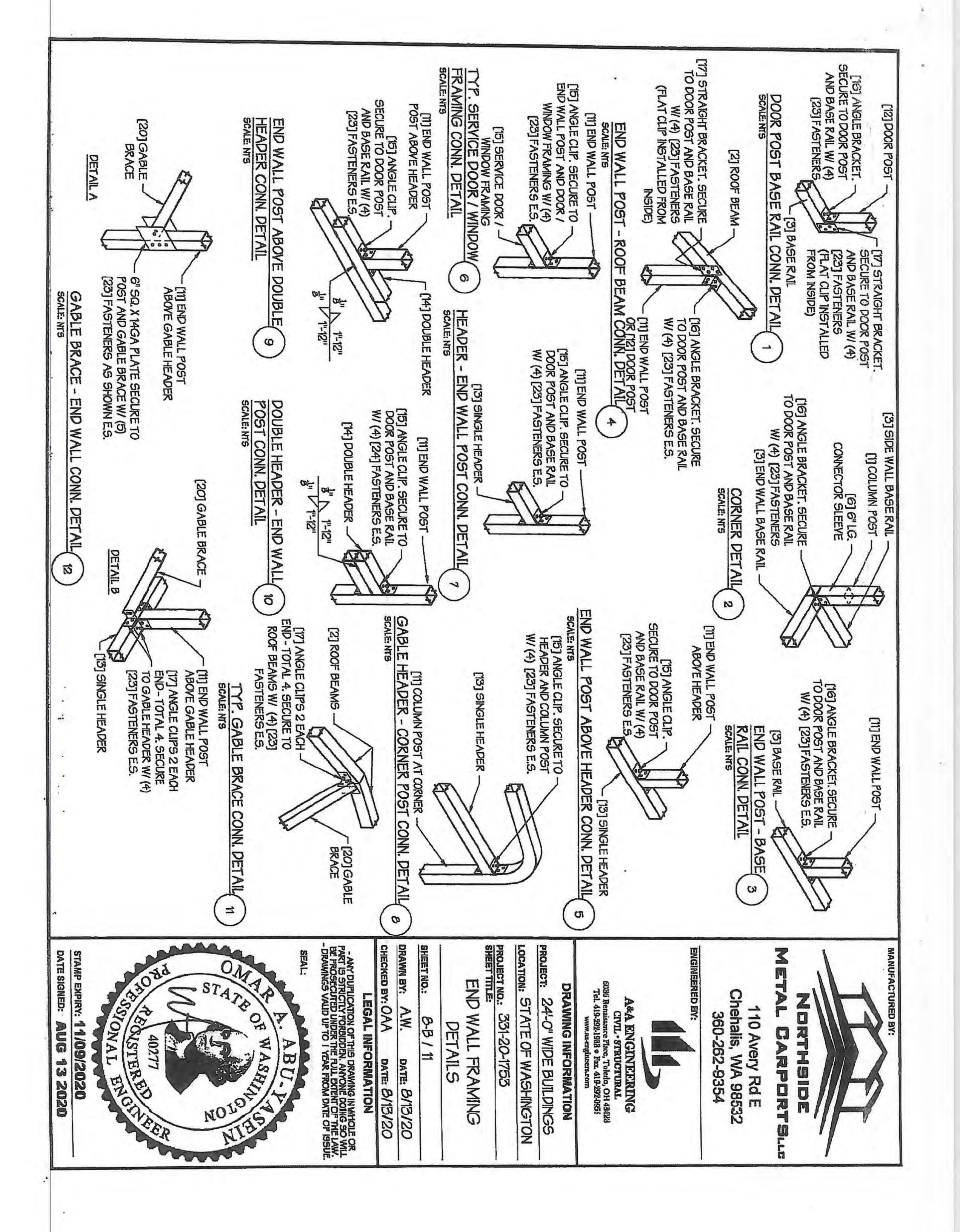
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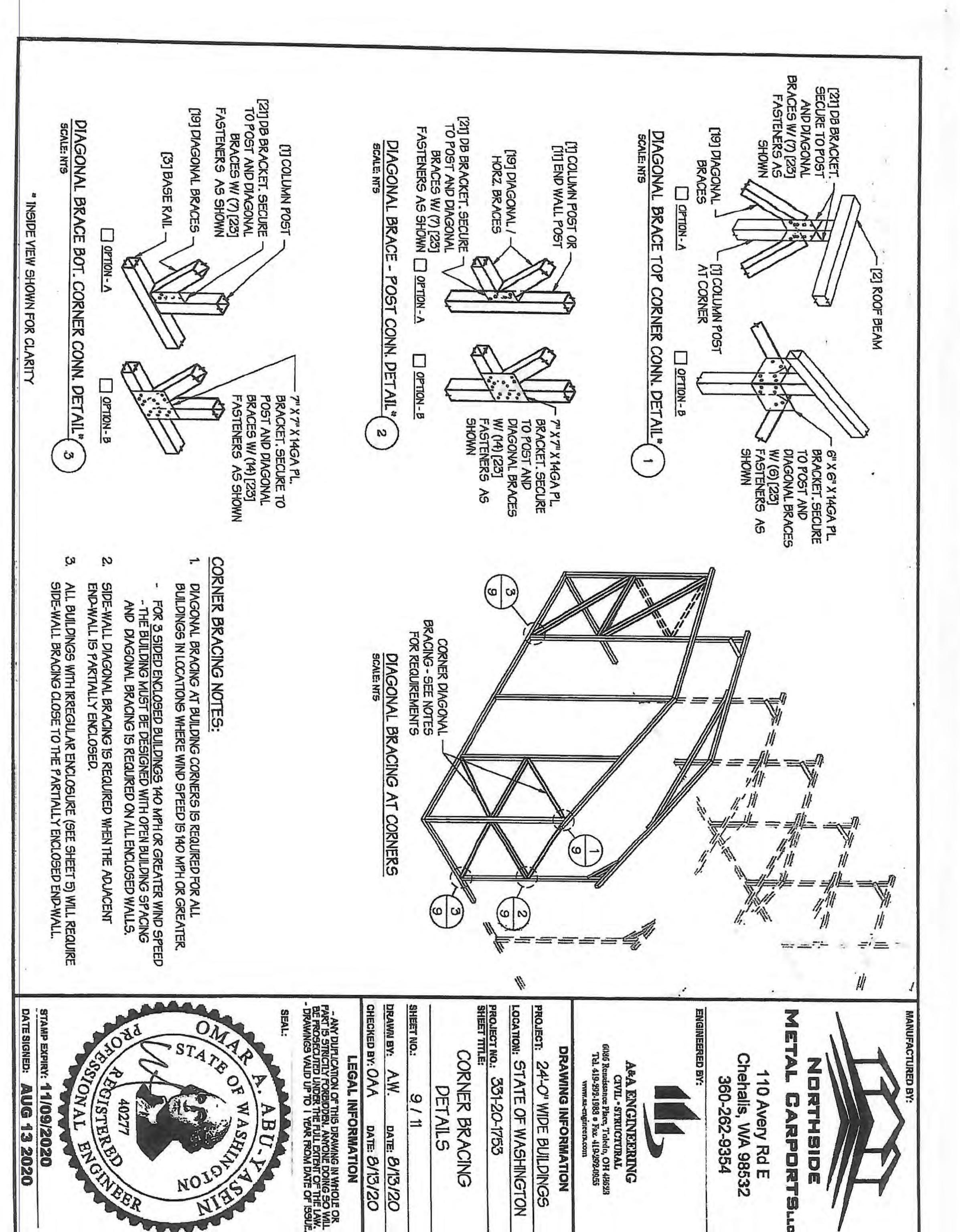
[15] ANGLE CLIP. SECURE - TO COLUMN POST AND SERVICE DOOR / WINDOW FRAMING W/ (4) [23] FASTENERS E.S. [15] SERVICE DOOR / WINDOW FRAMING [1] COLUMN POST

[16] ANGLE CLIP. SECURE -TO COLUMN POST AND HEADER W/ (4) [23] FASTENERS E.S.

SCALE: NTS **BOT.** [12] BOOK POST -[6]6" LG. CONNECTOR
SLEEVE, FIELD BOLT WI
[23] FASTENERS - SEE
TABLE 3-B.3 FOR NO. OF
FASTENERS REQD. CONN. [5] BASE RAIL が説が、 DETAIL







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331-20-1753

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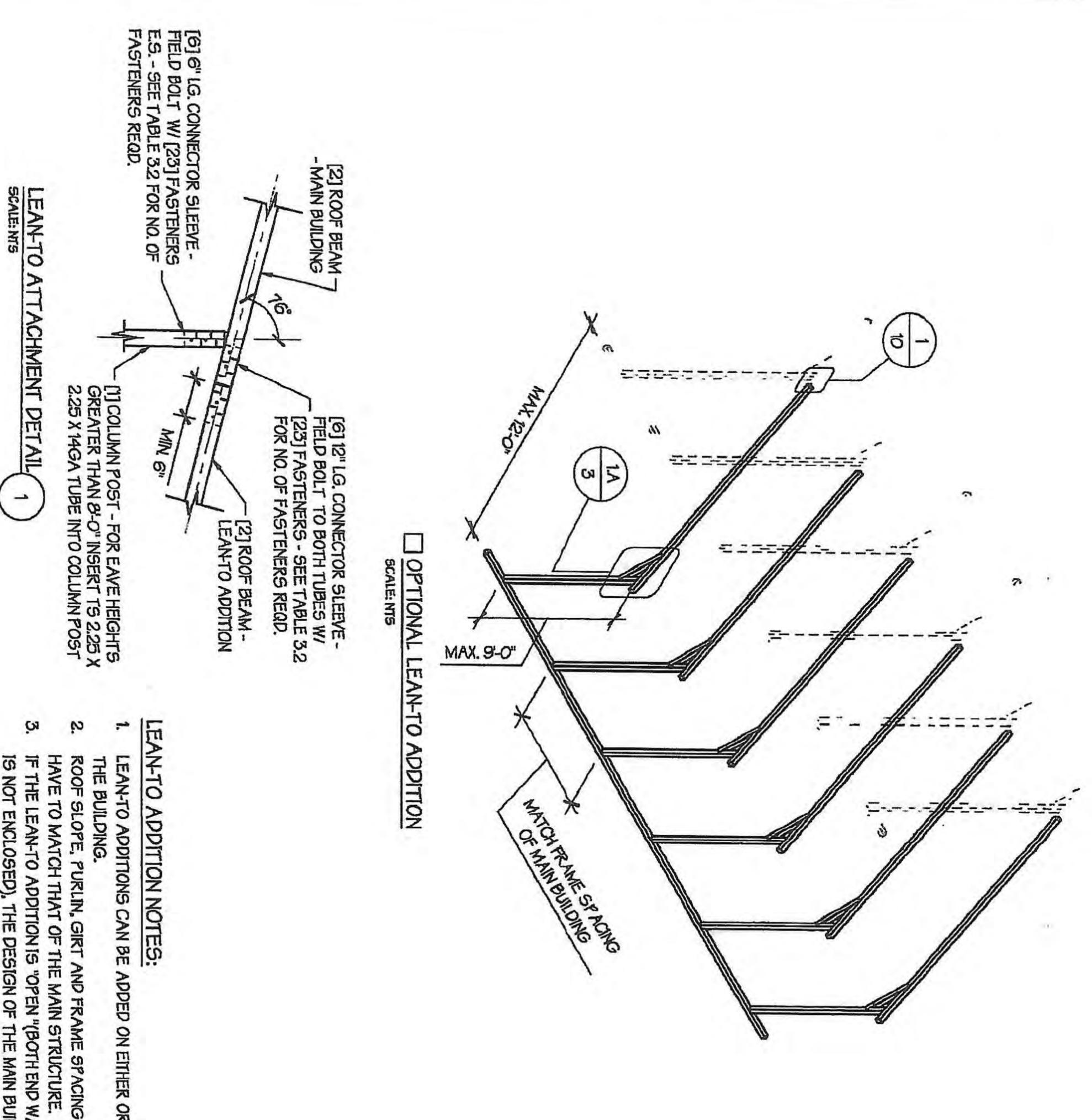
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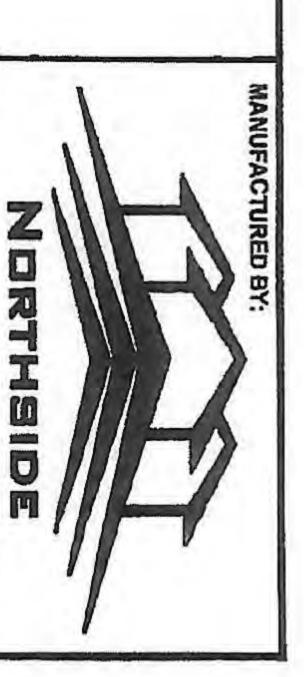
- LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF
- ROOF SLOPE, PURLIN, GIRT AND FRAME SPACING OF THE ADDITION
- IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4. IF THE LEAN-TO ADDITION IS "OPEN "(BOTH END WALLS OR SIDE WALL

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PROJECT: DRAWING INFORMATION 24'-0" WIDE BUILDINGS

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LOCATION:

STATE OF WASHINGTON

SHEET TITLE: SHEET NO .: DRAWN BY: OPTIONAL LEAN-TO A.W. 331-20-1753 ADDITION O \Rightarrow DATE: 8/13/20

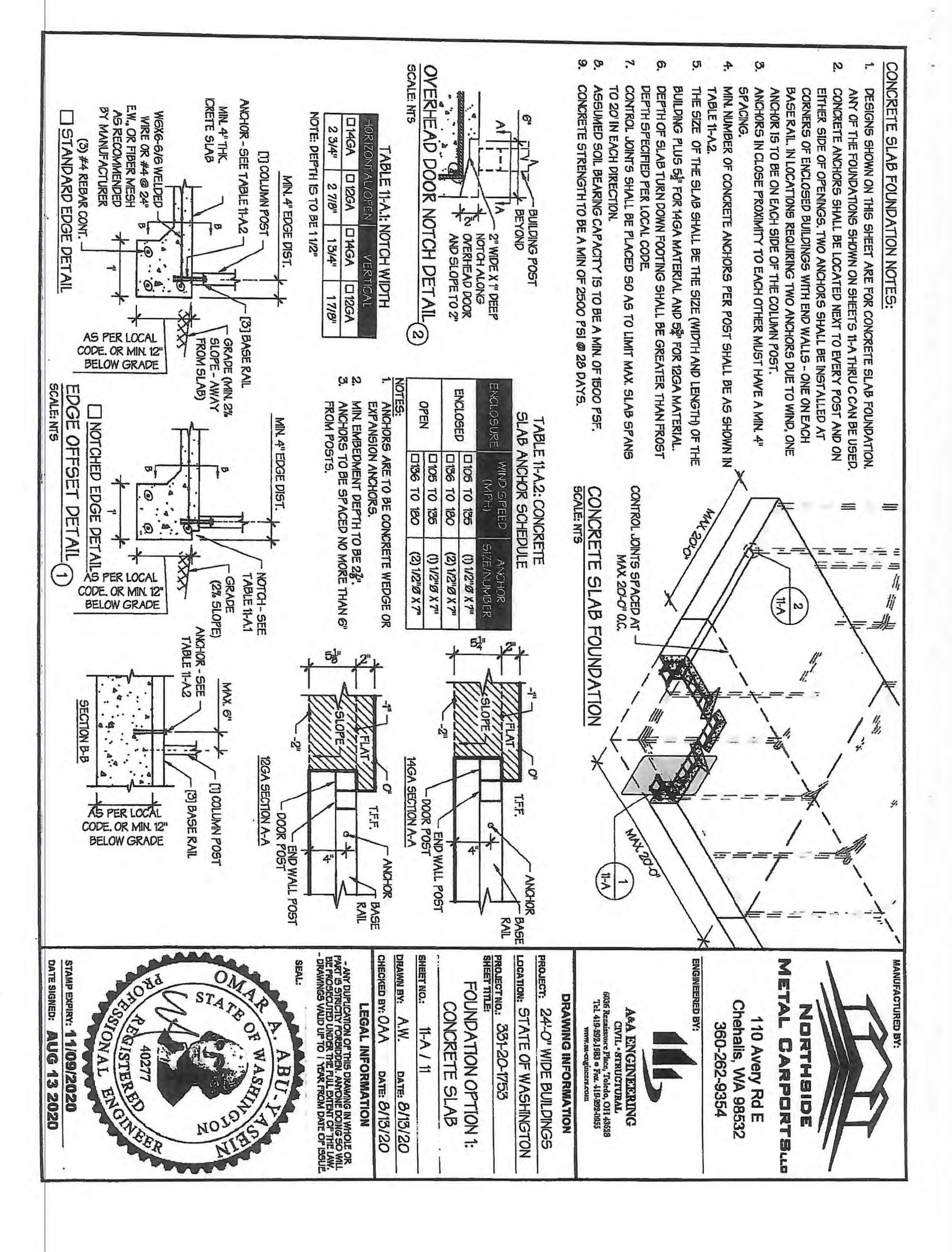
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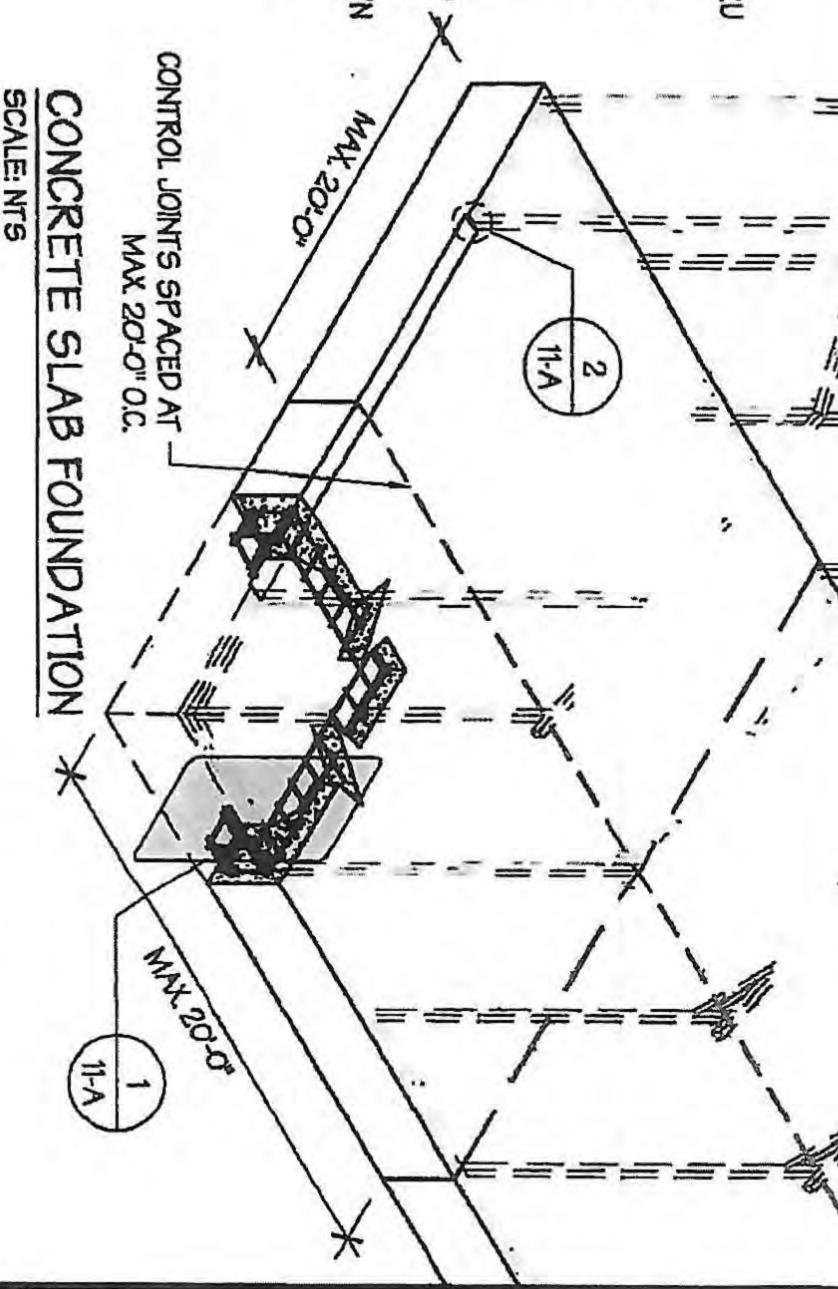
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CONCRETE SLAB FOUNDATION NOTES:

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



SLAB TABLE 11-A.1: CONCRETE ANCHOR SCHEDULE

ENCLOSURE	(MPI-)	SIZE/NUMBER
	□105 TO 135	(1) 1/2"Ø X 7"
ENCLUSED	□136 TO 180	(2) 1/2"Ø X 7"
	□105 TO 135	(1) 1/2"Ø X 7"
OFEN	□136 TO 180	(2) 1/2"Ø X 7"

EXPANSION ANCHORS. ANCHORS ARE TO BE CONCRETE WEDGE OR

MIN. EMBEDMENT DEPTH TO BE 28". ANCHORS TO BE SPACED NO MORE THAN

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SCALE: NTS

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AND SLOPE TO 2"

3"

NOTCH ALONG

2" WIDE X I" DEEP

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TFF

RAIL

ACCIOR

BUILDING POST

OVERHEAD DOOR NOTCH DETAIL

2

SECTION A-A

POST

CH KO



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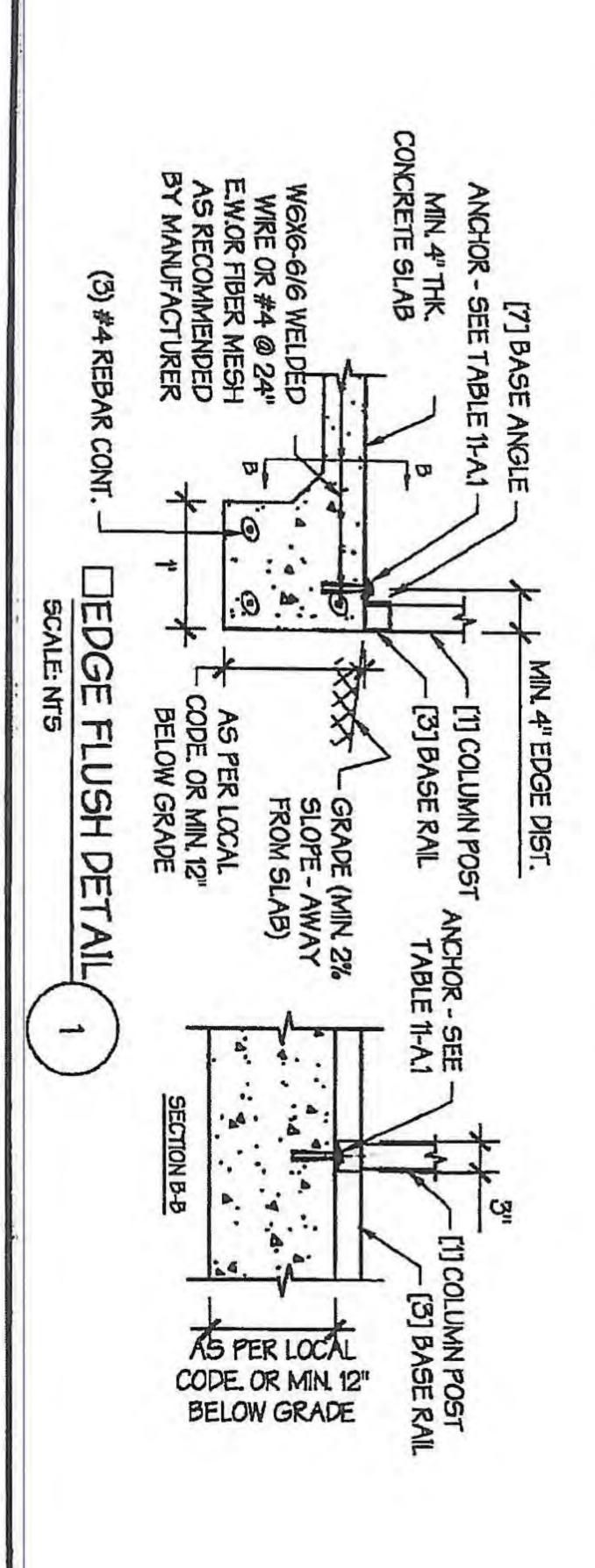


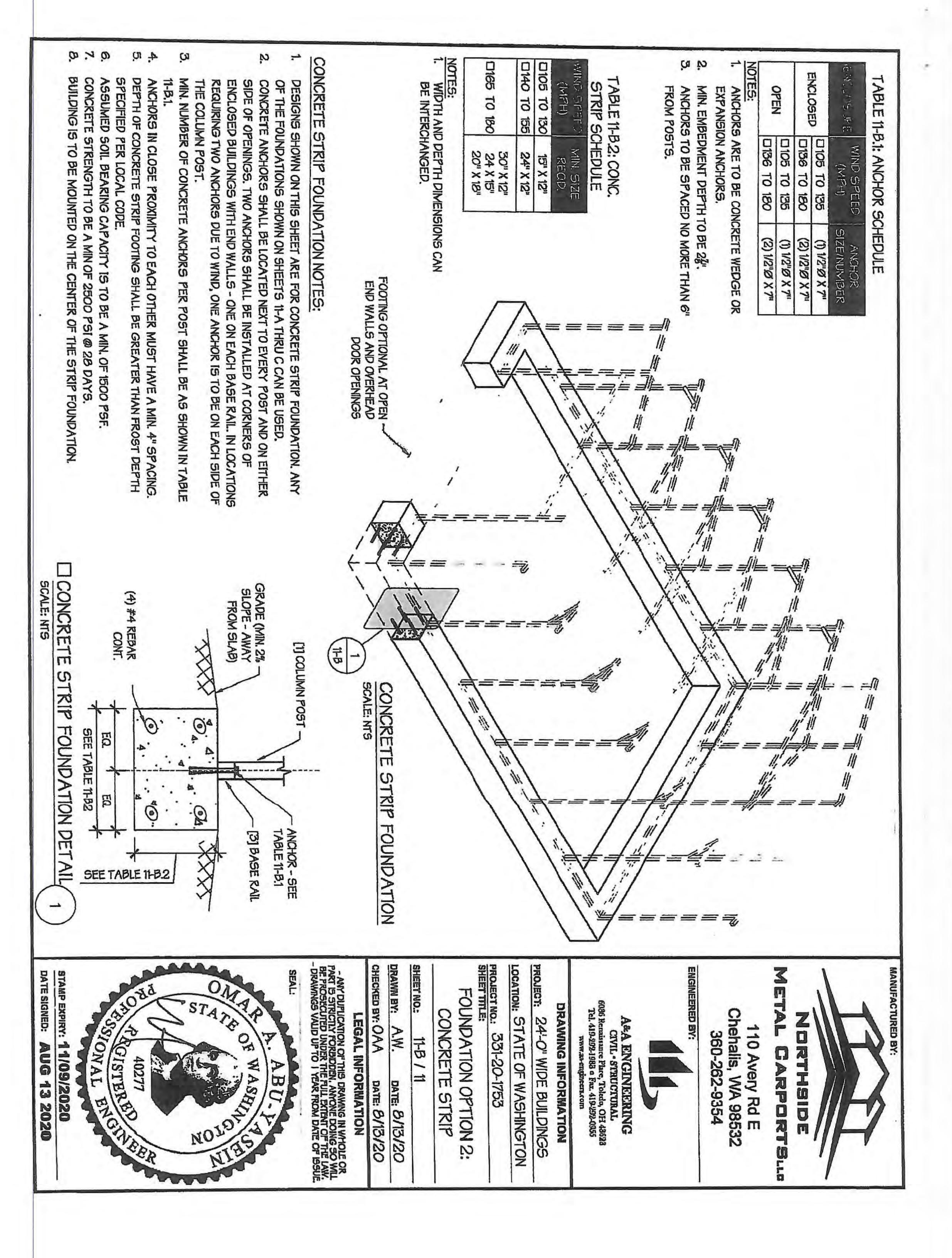
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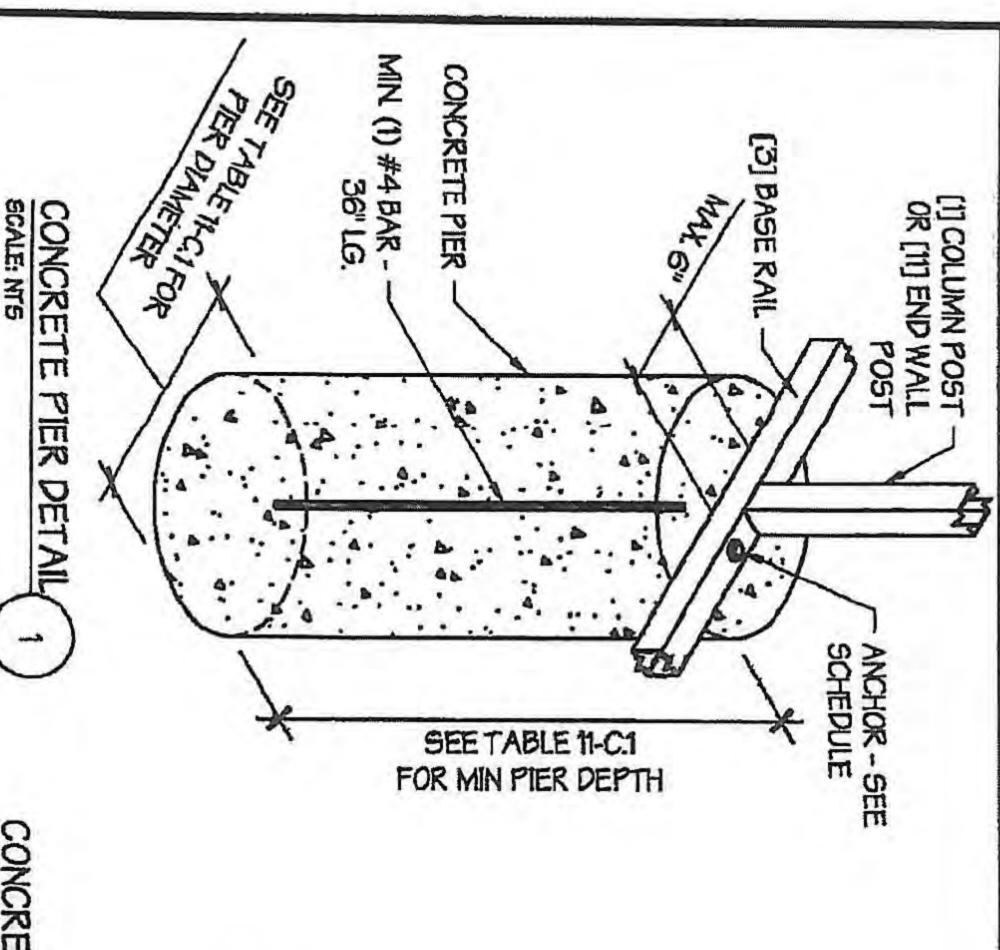
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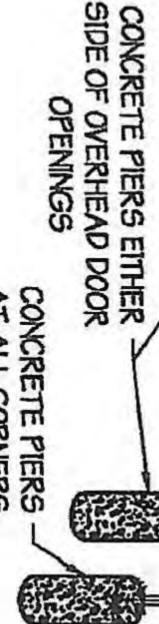
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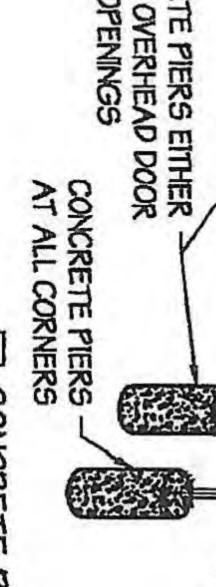
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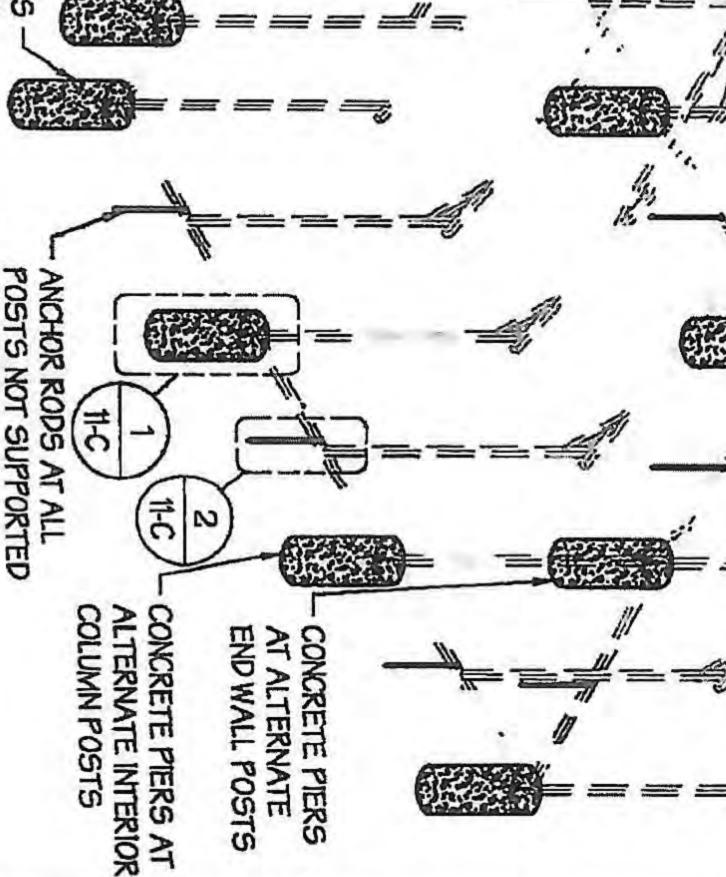












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ON CONCRETE PIERS

FOUNDATION NOTES:

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- 'n P0515. ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS CONCRETE PIERS SHALL BE LOCATED AT ALL 4 CORNERS,

ANCHOR ROD

[3] BASERAIL

华

OR [11] END WALL

909

- S BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH COLUMN POST WITH A PIER TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF
- ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE MIN. 4" SPACING. CONCRETE ANCHORS PER POST WITH A

CI

VIN. NUMBER OF

9

- BRACING LOCATIONS WHEN REQUIRED. PIER SHALL BE TWO ANCHORS / IND A PIER ARE REQUIRED AT DIAGONAL **\S SHOWN IN TABLE 11-C.2.**
- 0 7 BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. THE TOP AND ONE COAT OF RUST PROOF MATERIAL THREADED ROD. ALL POSTS NOT RODS WILL HAVE A PRE-FORMED HEAD AT SUPPORTED ON CONCRETE PIERS SHALL

NCT OR

ROD INTO SOIL

TABLE 11-C.1: CONC.

PIER SCHEDULE

- WITH CONCRETE. SAME PIERS SHALL BE NTO THE PIERS SIZE AS THE PRIOR TO POURING THE CONCRETE THRD. ROD ANCHORS SHOULD BE DROPPED FORMED BY DIGGING A HOLE OF THE PIER ON LEVEL GRADE AND FILLING IT
- 1500 PSF ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF

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24"Ø X 42"

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24"Ø X 36"

WIND SCHEC

MIN SIZE

(アアエ)

165

5

8

24"Ø X 48"

ō CONCRETE STRE NGTH TO BE A MIN OF 2500 PSI @ 28

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CONCRETE PIER TABLE 11-C2: ANCHOR SCHEDULE FOUNDATION

- Carre	OPEN		ENCLOSED		ENCLOSURE	
	□136 TO 180	□105 TO 135	□136 TO 180	□105 TO 135	(MPH)	WIND SPEED
	(2) 1/2"Ø X 7"	(1) 112" Ø X 7"	(2) 1/2"Ø X 7"	(1) 1/2°Ø X 7°	SIZE/NUMBER	ANDLOR

- EXPANSION ANCHORS. ANCHORS ARE TO BE CONCRETE WEDGE OR
- MIN. EMBEDMENT DEPTH TO BE 28".
- FROM POSTS. ANCHORS TO BE SPACED NO MORE THA o Z

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PROJECT: 6036 Remissance Place, Toledo, OH 43623 Tel. 419-292-1983 a Fax. 419-292-1955 www.as-engineers.com DRAWING INFORMATION 24'-0" WIDE BUILDINGS

LOCATION:

STATE OF WASHINGTON

SHEET TITLE: FOUNDATION OPTION 331-20-1753

SHEET NO. ONCRETE A.W. 175/ \Rightarrow PIERS 8/13/20

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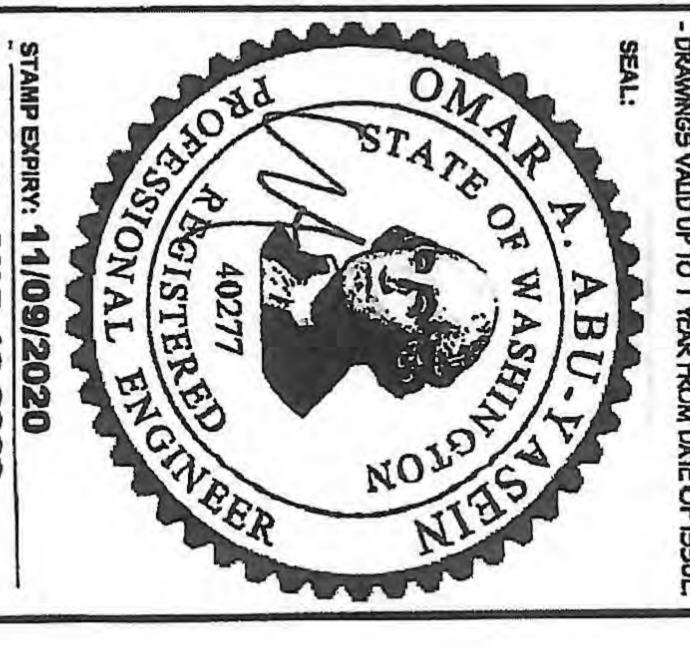
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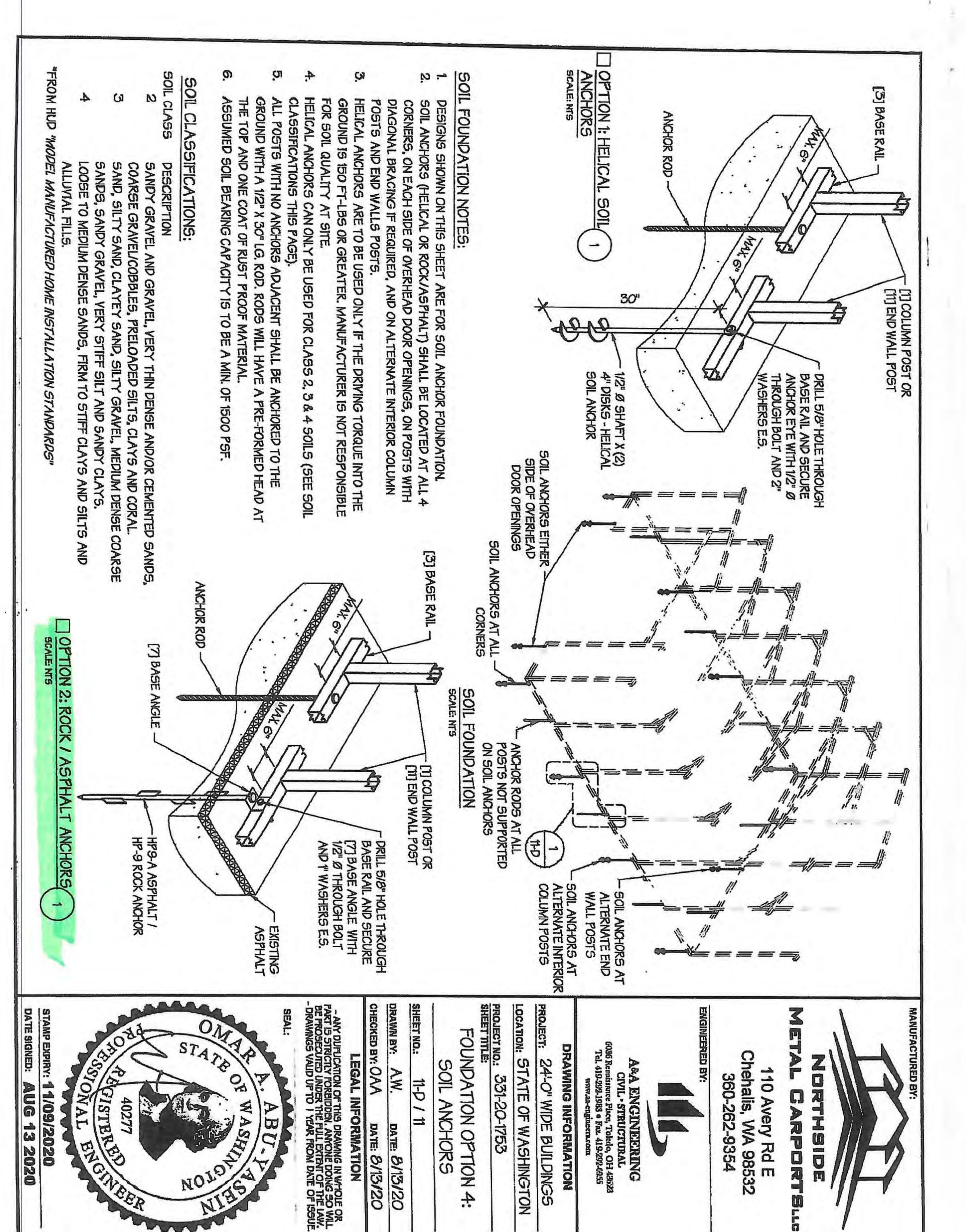
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