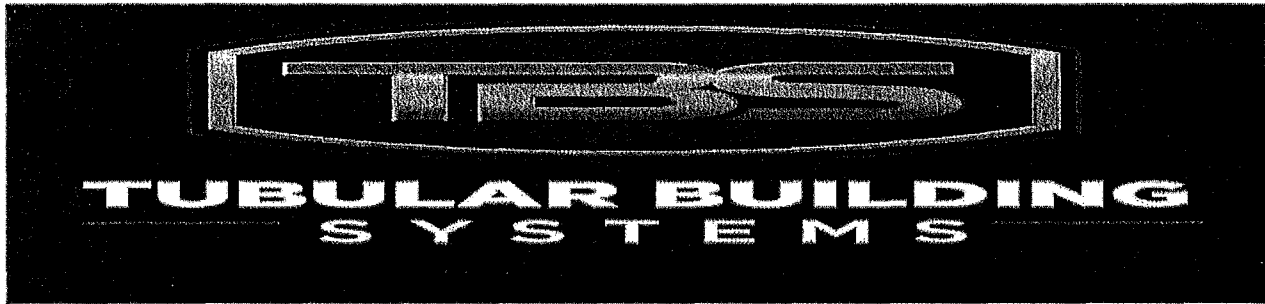




Florida Product Approval Codes

Roof Deck:

Capital Metal Supply Inc. Ag Panel: 20147.2

EXP 01/06/2030

Wall Panel:

Capital Metal Supply Inc. Ag Panel: 20148.2

EXP 01/06/2030

Window:

Wintech Window Technology: 30750.1

EXP 12/14/2031

Walk-In Door:

Elixir Door & Metal Company blank (no window): 17996.5

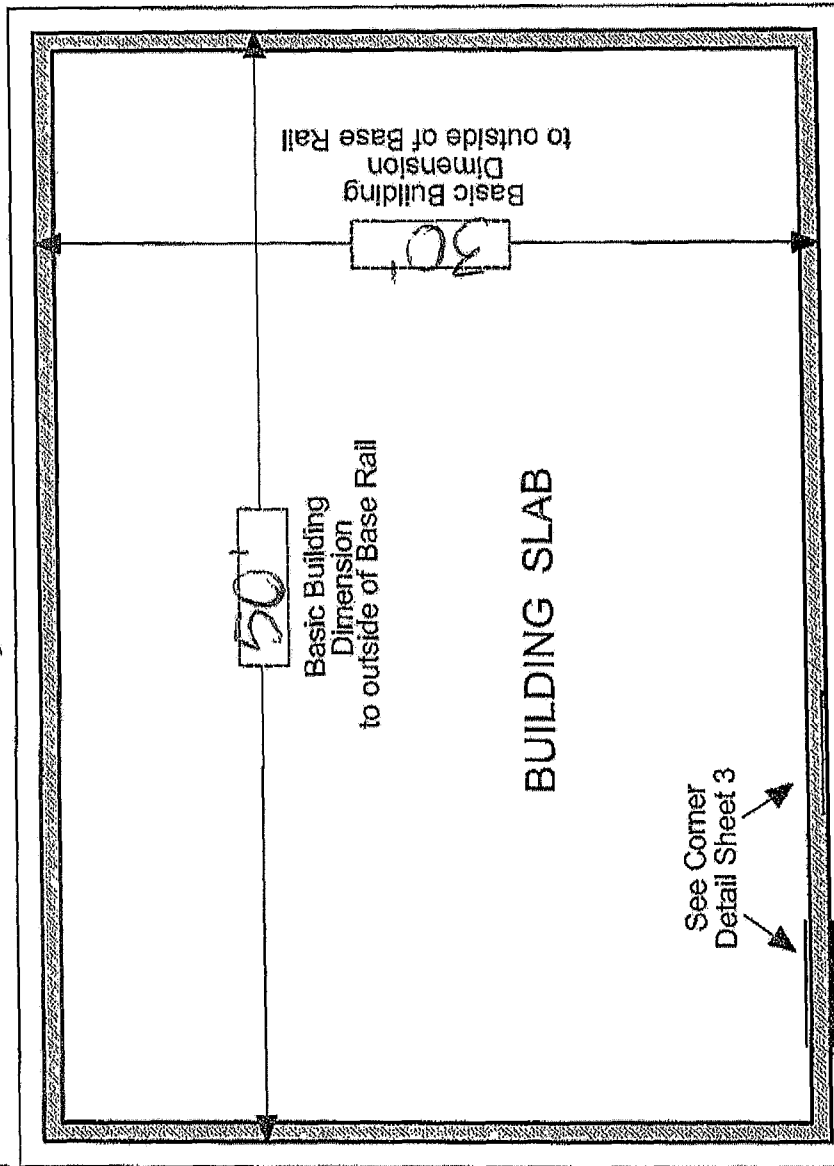
EXP 08/19/2025

If you have any questions or concern, please contact Donald Little at
386-961-0006 or at tubularbuildingsystems@gmail.com.

emailed

Outside measurement of foundation
Equals Basic Building Dimension
plus Seven (7) inches

50'7"



Outside edge of foundation / footing

Outside measurement of foundation
Equals Basic Building Dimension
plus Seven (7) inches

30'7"

Basic Building
Dimension
to outside of Base Rail

50'+

Basic Building
Dimension
to outside of Base Rail

BUILDING SLAB

See Corner
Detail Sheet 3

Building
Base Rail

3-1/2" wide x 1-1/2" high Notch
in Concrete outside
of basic building
dimensions

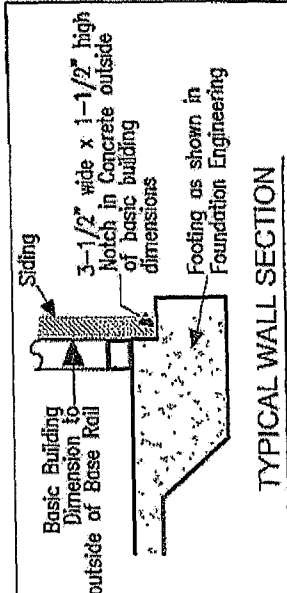
IMPORTANT - NOTES



Record Measurements
in these spaces provided

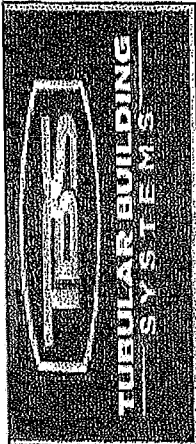
All basic building dimensions
are to the outside of the
frame Base Rail and DO NOT
INCLUDE the 3-1/2" x 1-1/2"
notch in the concrete footing

See Sheet 3 of 3
for Detail of Building
corner configuration



TYPICAL WALL SECTION

TYPICAL BUILDING FOUNDATION MEASUREMENTS



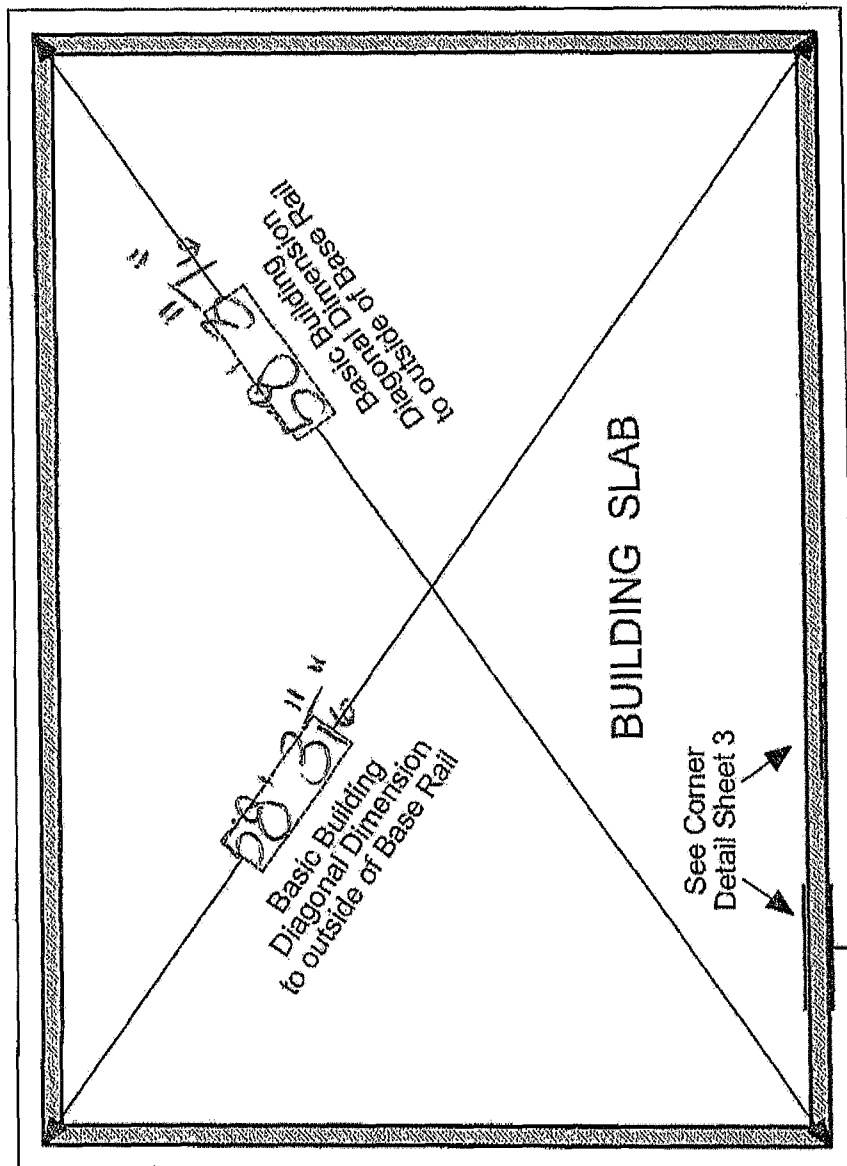
IMPORTANT - NOTES



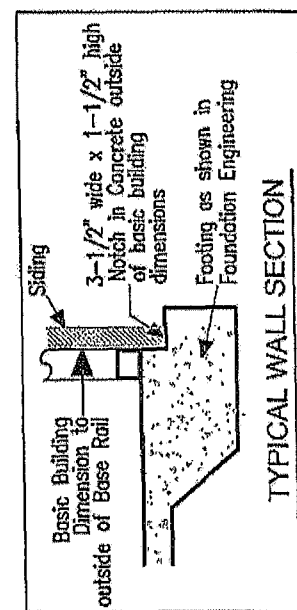
Record Measurements
in these spaces provided

All basic building diagonal dimensions
are to the outside corner of the
frame Base Rail and DO NOT
INCLUDE the 3-1/2" x 1-1/2"
notch in the concrete footing

See Sheet 3 of 3
for Detail of Building
corner configuration



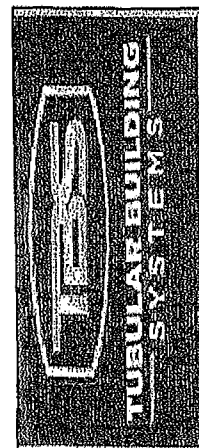
Outside edge of foundation / footing



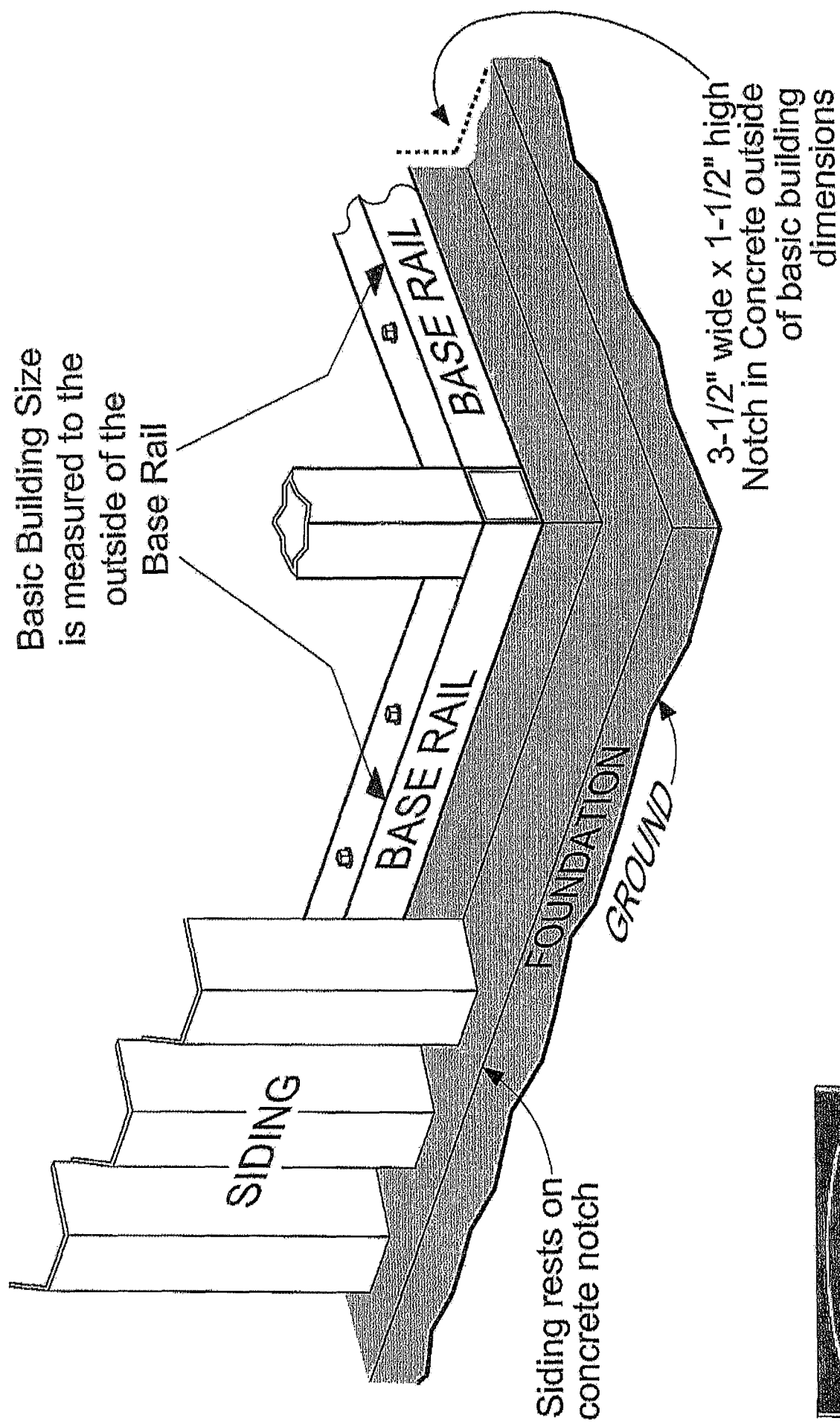
3-1/2" wide x 1-1/2" high Notch
in Concrete outside
of basic building
dimensions

See Corner
Detail Sheet 3

Building
Base Rail



TYPICAL BUILDING FOUNDATION MEASUREMENTS DIAGONALS



TYPICAL BUILDING

CORNER DETAIL



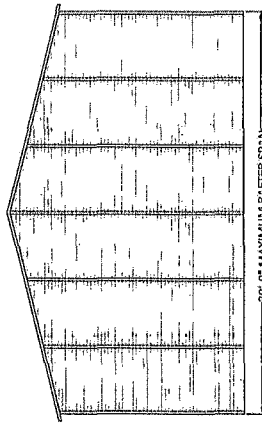
GENERAL NOTES

- DESIGN IS FOR MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT FULLY ENCLOSED STRUCTURE.
- APPLICABLE CODES, REGULATIONS, & STANDARDS:
 - 2023 FLORIDA BUILDING CODE (8TH EDITION)
 - 2024 INTERNATIONAL BUILDING CODE
 - ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
 - AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
 - ACI 308-15: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - THIS 502-16: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 - AWG D11: STRUCTURAL WELDING
- RISK CATEGORY: 1
- EXPOSURE CATEGORY: C
- LOW ULTIMATE WIND SPEED: 105 TO 150 MPH (NOMINAL WIND SPEED 81 TO 115 MPH); MAXIMUM BATTER/POST AND END POST SPACING = 5.0 FEET
- HIGH ULTIMATE WIND SPEED: 151 TO 180 MPH (NOMINAL WIND SPEED: 117 TO 139 MPH); MAXIMUM BATTER/POST AND END POST SPACING = 4.0 FEET
- DEAD LOAD = 10 PSF
- LIVE LOAD = 10 PSF
- SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" x 1/4" GAUGE TUBE STEEL (T3) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GAUGE METAL PANELS SHALL BE FASTENED TO J&S GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).
- OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS.
- FASTENERS: CONCRETE OR 3/4" x 3/4" x 1/4" SELF-DRILLING FASTENERS (R20). USE CONTROL SEAL W/ WASHER W/ RIVET. FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS. AND ROOF SLOPES OF 1/4" (3.12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- AVERAGE FASTENER SPACING ON CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 5" OR END = 6" (MAX).
- WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS: D
RISK CATEGORY: 1
R = 1.0
S_s = 0.087 g
V = C-W
S₀ = 0.084 g
- GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 5" OF EACH RAFTER COLUMN ALONG SIDES.
- GROUND ANCHOR (SOIL NAILS) CONSIST OF 1/2" REBAR W/ WELDED RIFT X 30" LONG IN SUITABLE SOIL. CONDITIONS MAY BE USED FOR LOW (5-105 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED.
- MIN. L₄₀ REQUIREMENT FOR REBAR IN FOOTERS 25"
- SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557-93
- PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FIC.
- LANDING OF MIN. 36" WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR OF LANDING NOT TO EXCEED 14'-0". LANDING LEVEL NOT TO BE LOWER THAN 1'-0" (FOR EXTERIOR DOORS) & 7'-0" (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

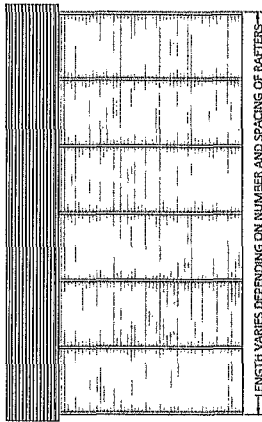
DRAWING INDEX

PAGE NO.	DESCRIPTION
1	NOTES & SPECIFICATIONS
2	BOX EAVE FRAME RAFTER ENCLOSED BUILDING
3	BOX EAVE FRAME RAFTER ENCLOSED BUILDING PRESSURES
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	BOXEAVE EAVE VERTICAL ROOFING OPTION
6	BOXEAVE EAVE RAFTER LEAN-TO OPTION
7	BOX EAVE RAFTER END WALL SIDE WALL AND OPENING FRAMING
8	VENT AND CHU STEAM WALL DETAIL
9	OPTIONAL CONCRETE STRIP FOOTING

ENCLOSED METAL BUILDING DESIGN
MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT
BOX/BOW EAVE FRAME

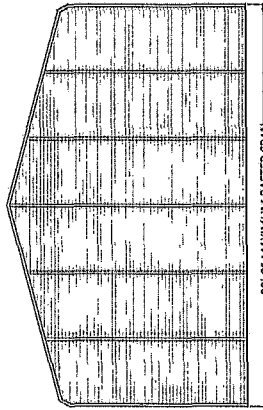


30'-0" MAXIMUM RAFTER SPAN
TYPICAL END ELEVATION - HORIZONTAL ROOF

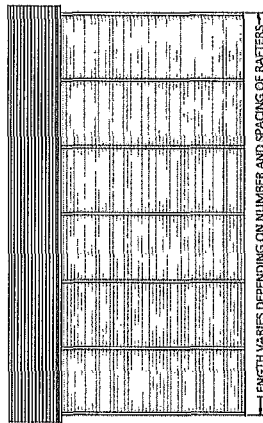


LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
TYPICAL SIDE ELEVATION - HORIZONTAL ROOF

BOX EAVE FRAME RAFTER ENCLOSED BUILDING



30'-0" MAXIMUM RAFTER SPAN
TYPICAL END ELEVATION



LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS
TYPICAL SIDE ELEVATION

BOW FRAME RAFTER ENCLOSED BUILDING

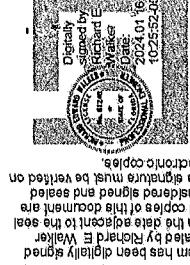
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STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	FL20145-2-43 12/13/2023
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 3533	FL14425-1-16 12/15/21
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 750	P21-4501D-R11 10/17/23
EXTERIOR DOORS	ROLL-UP	JANUS INTERNATIONAL GROUP LLC SERIES 3100	FL17465-4-16 10/11/20
EXTERIOR DOORS	SWINGING	ELMER DOORS AND METAL COMPANY SERIES 407	FL17995-5-43 12/26/23
WINDOWS	SINGLE HUNG	KINRO, INC. 9750 SH	FL9815-R19 11/01/23
WINDOWS	VERTICAL SLIDING	KINRO, INC. 18000-R VS	FL9958-R19 11/01/23

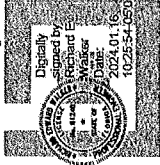
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CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

DESIGN DATE:	12/14/2023	PAGE
REVISION 1:	DATE	
REVISION 2:	DATE	
SCALE:	NTS	

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FLeng.com
Orders@FLeng.com
PROJECT NO. 2322771-30-E
CA CERT #30782



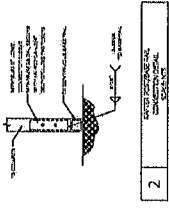


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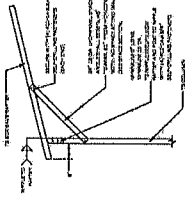
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(941) 391-5980
FLeng.com
Orders@FLeng.com
CA CERT #30702
PROJECT NO. 2322771-30-E

TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
ENCLOSED STRUCTURE
30' WIDE X 20' HIGH

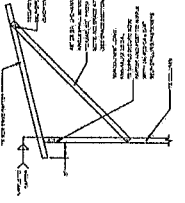
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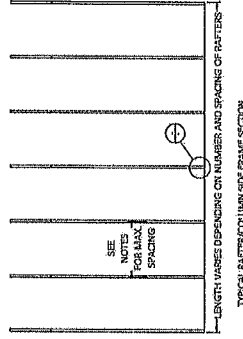
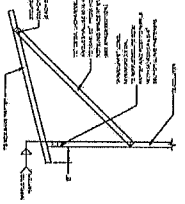
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SEE EAVE DETAIL
FOR CONNECTION TO
COLUMN



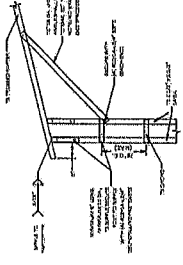
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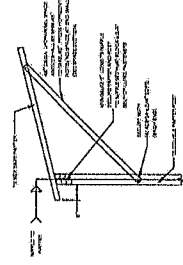
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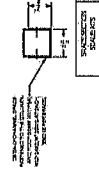
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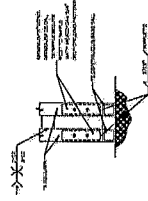
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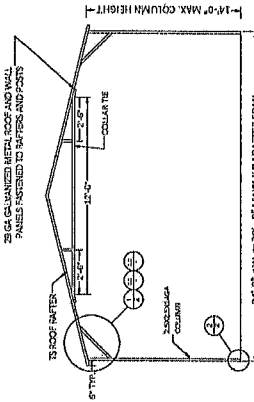
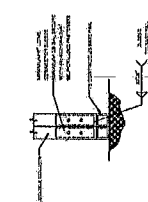
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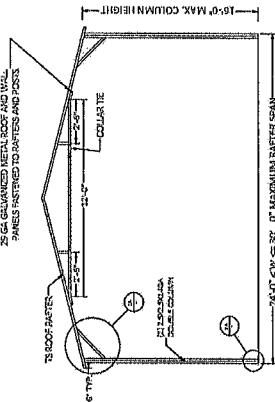
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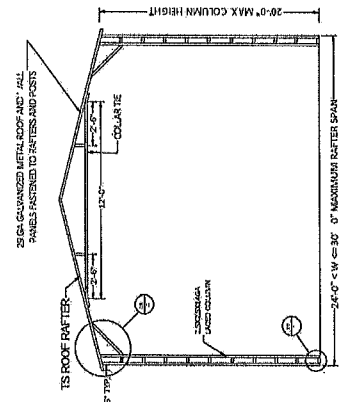
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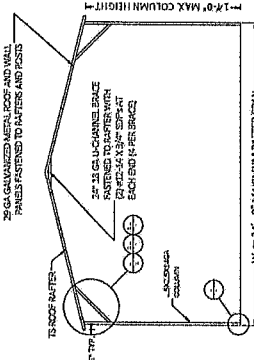
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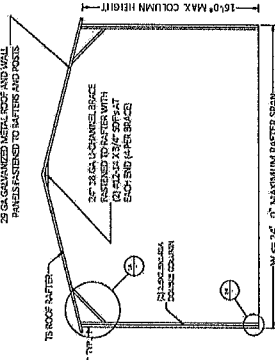
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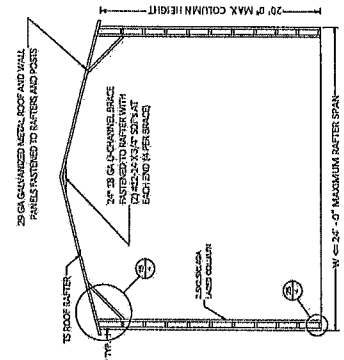
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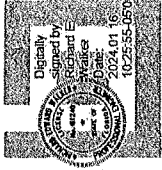
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TYPICAL RAFTER SECTION
W <= 24' 0" MAXIMUM RAFTER SPAN



TYPICAL RAFTER SECTION
W <= 24' 0" MAXIMUM RAFTER SPAN



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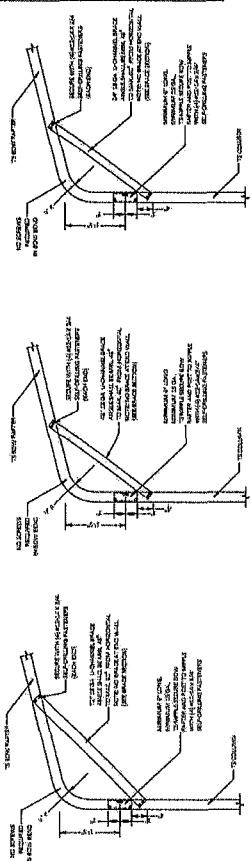
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Orders@FLeng.com
PROJECT NO. 2322771-30-E
CA CERT #30782

TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
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ENCLOSED STRUCTURE
30" WIDE X 20" HIGH

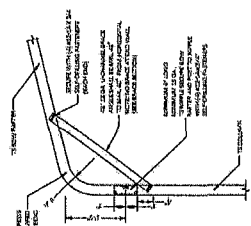
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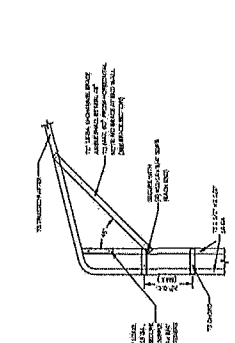
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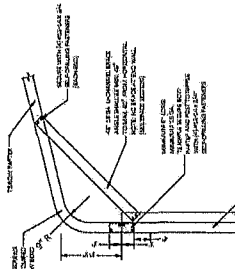
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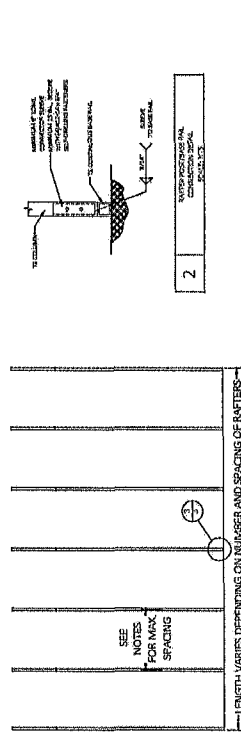
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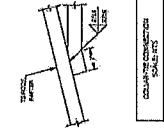
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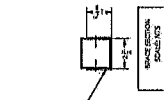
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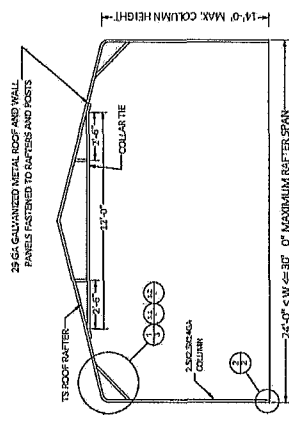
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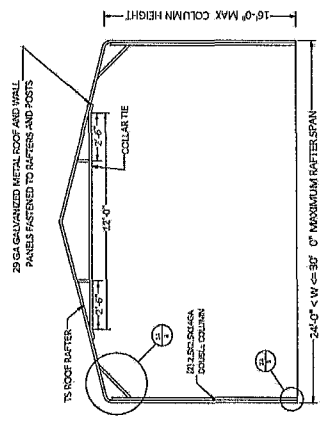
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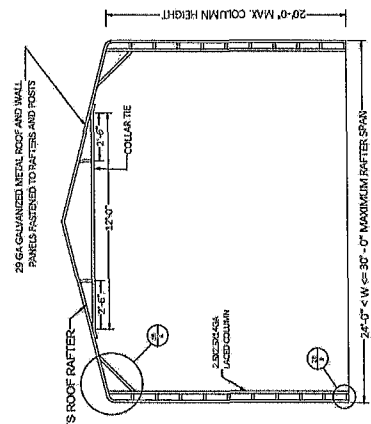
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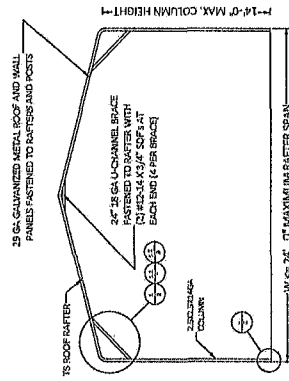
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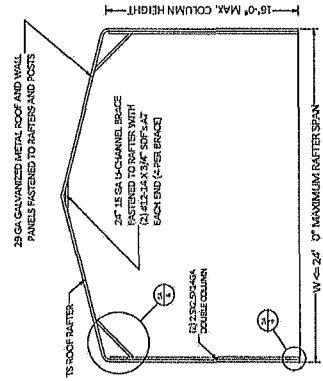
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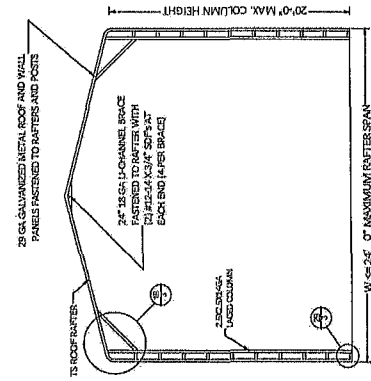
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4 TYPICAL RAFTER SECTION



5 TYPICAL RAFTER SECTION



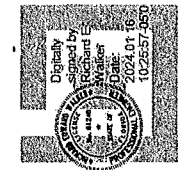
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3D

TOP SECRET

SECTION

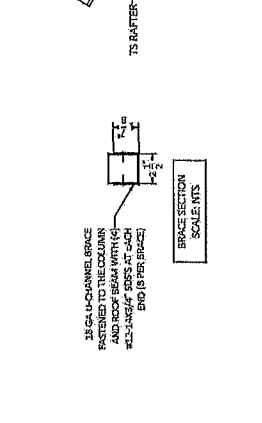
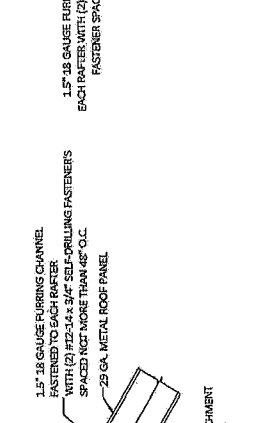
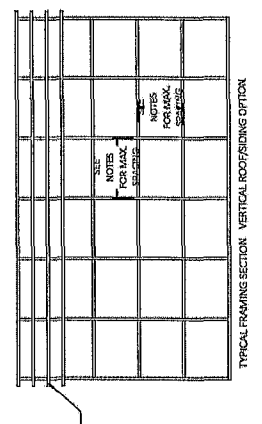
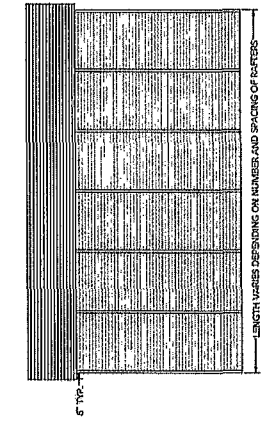
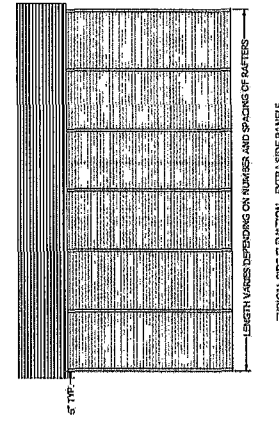
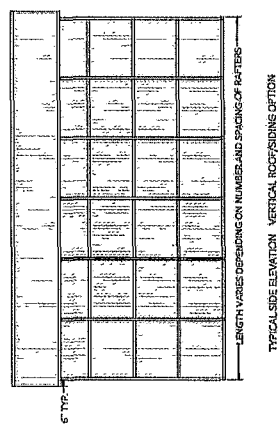
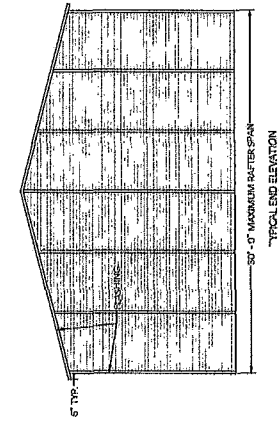
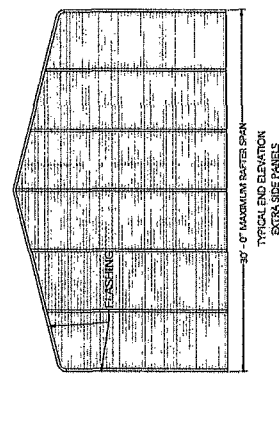
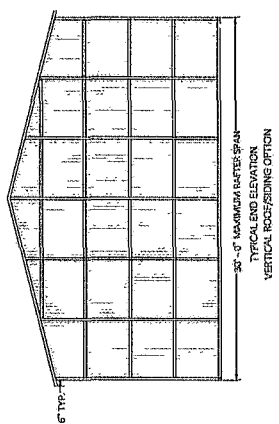
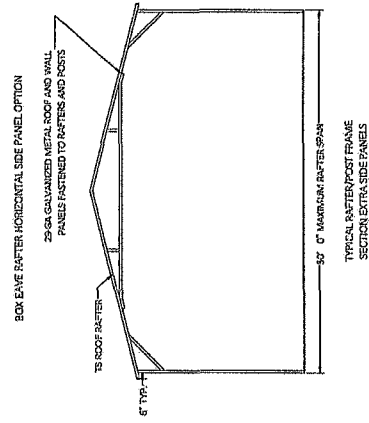
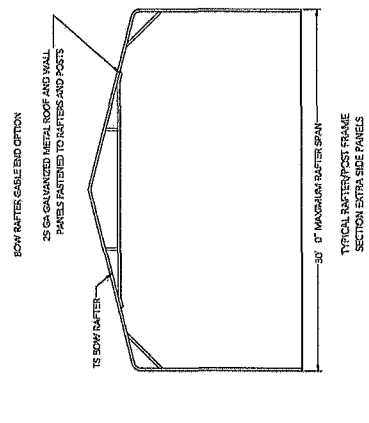
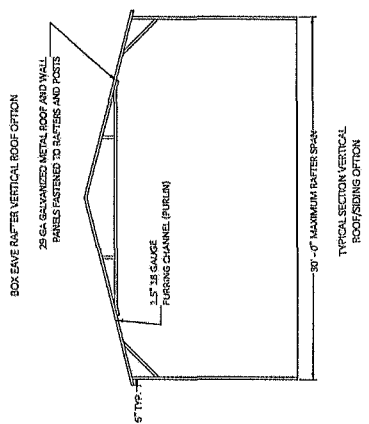


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PROJECT NO. 2322771-30-E
CA CERT #20782

CONTRACTOR:
TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE,
LAKE CITY, FL 32025
PROJECT DESCRIPTION:
30' WIDE X 20' HIGH
ENCLOSED STRUCTURE

DESIGN DATE:		12/14/2023
REVISION 1	DATE	PAGE 5
REVISION 2:	DATE	
SCALE:	NTS	



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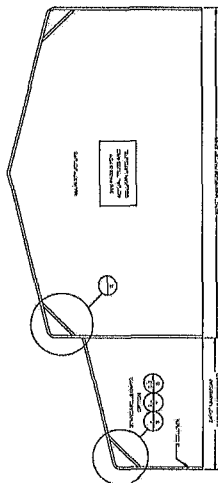
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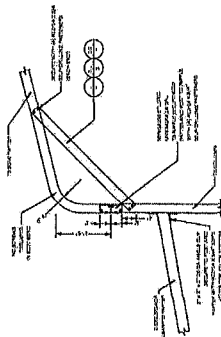
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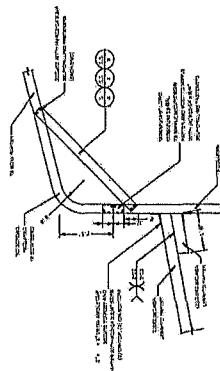
FROM RAFTER LEAN-TO OPTIONS



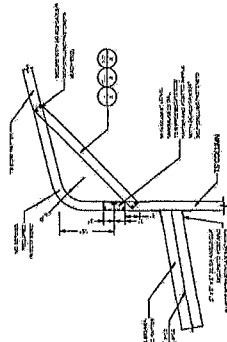
TYPICAL BOW RAFTER LEAN-TO OPTIC'S FRAMING SECTION



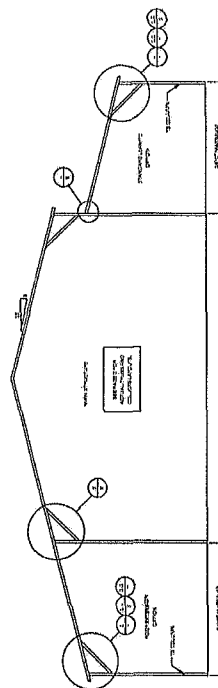
THE UNIVERSITY OF CHICAGO PRESS



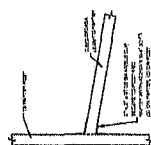
THE UNIVERSITY OF CHICAGO PRESS

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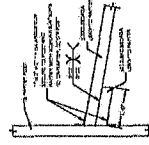
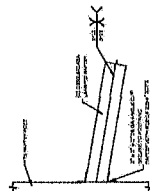
TECH HAVE AFTER LEAN-TO OPTIONS



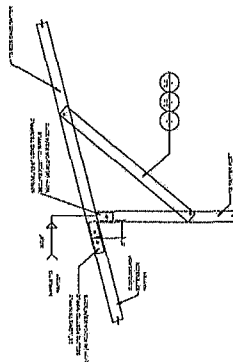
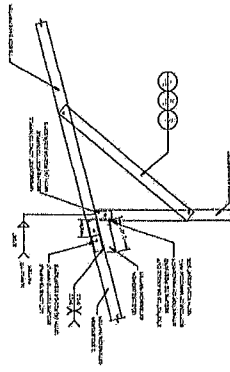
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



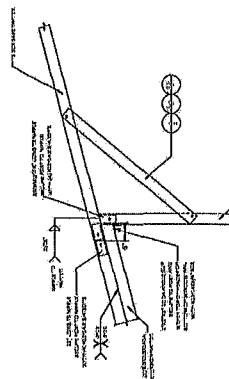
DATE OF BIRTH TO DATE CURRENT CONSCRIPTION STATUS

[illegible]

TO THE ATTORNEY GENERAL OF THE DISTRICT OF COLUMBIA
FROM THE UNITED STATES DEPARTMENT OF JUSTICE
SUBJECT: [REDACTED]
[REDACTED]

[illegible]

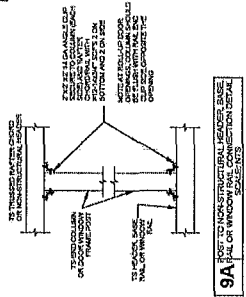
THE UNIVERSITY OF CHICAGO



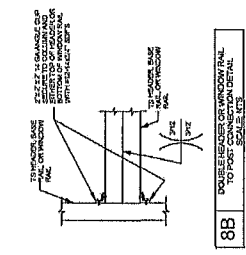
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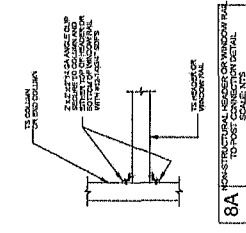
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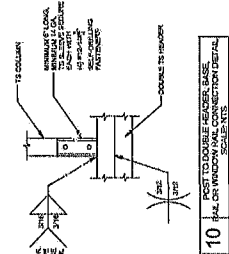
9A POST TO NON-STRUCTURAL HEADER, BASE TO POST CONNECTION DETAIL
SCALE: N.T.S.



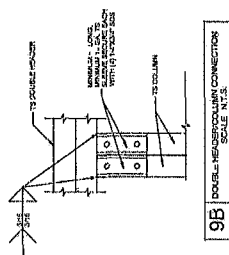
8B DOUBLE HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: N.T.S.



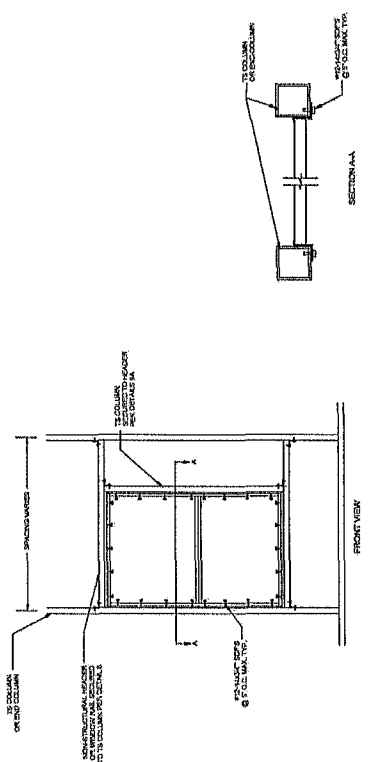
8A POST-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: N.T.S.



10 POST TO DOUBLE COLUMN, BASE TO DOUBLE COLUMN CONNECTION DETAIL
SCALE: N.T.S.

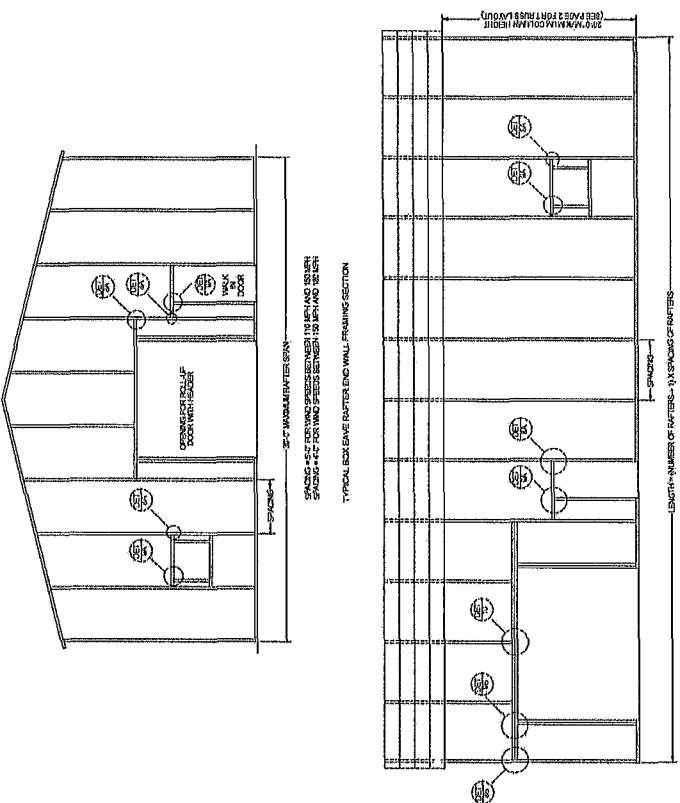


9B DOUBLE-HEADER COLUMN CONNECTION
SCALE: N.T.S.



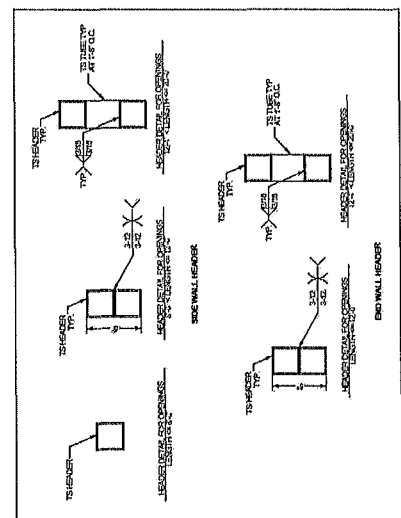
FRONT VIEW

11 WINDOW INFILLATION DETAILS
N.T.S.



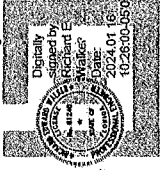
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

LENGTH - NUMBER OF RAFTERS - 1/2 SPACING OF RAFTERS
SPACING - 24" FOR WIND SPEEDS BETWEEN 10 MPH AND 60 MPH
SPACING - 24" FOR WIND SPEEDS BETWEEN 60 MPH AND 80 MPH
SPACING - 24" FOR WIND SPEEDS BETWEEN 80 MPH AND 100 MPH



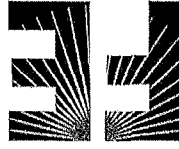
END WALL HEADER

SIDE WALL HEADER



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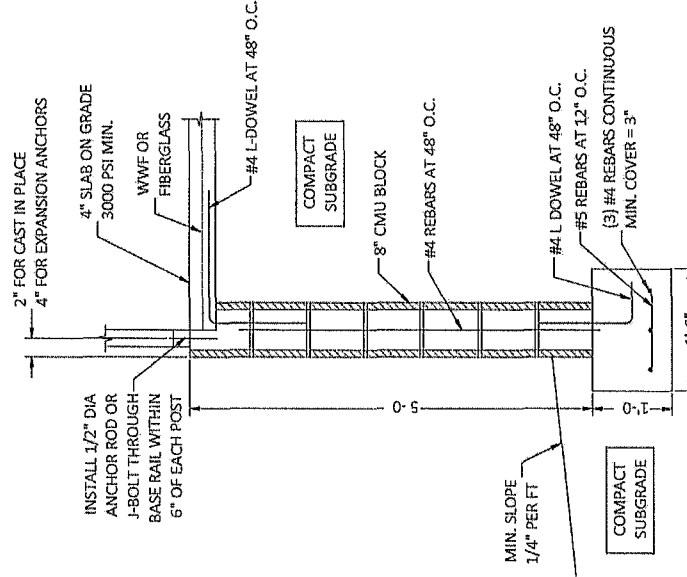
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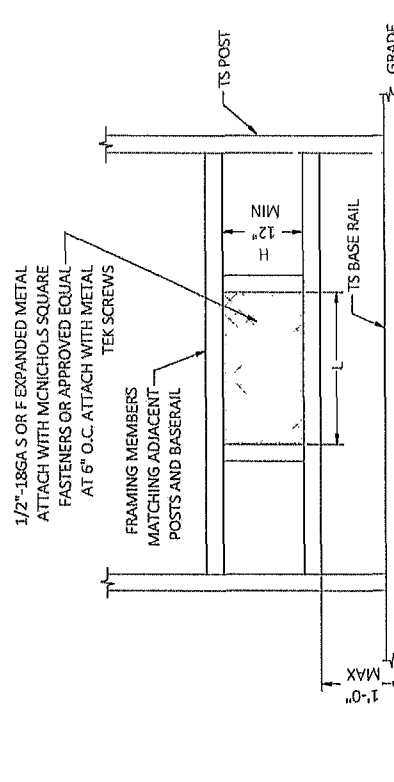
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8



STAND-ALONE CONCRETE MASONRY UNIT (CMU)
FOUNDATION STEM WALL DETAIL



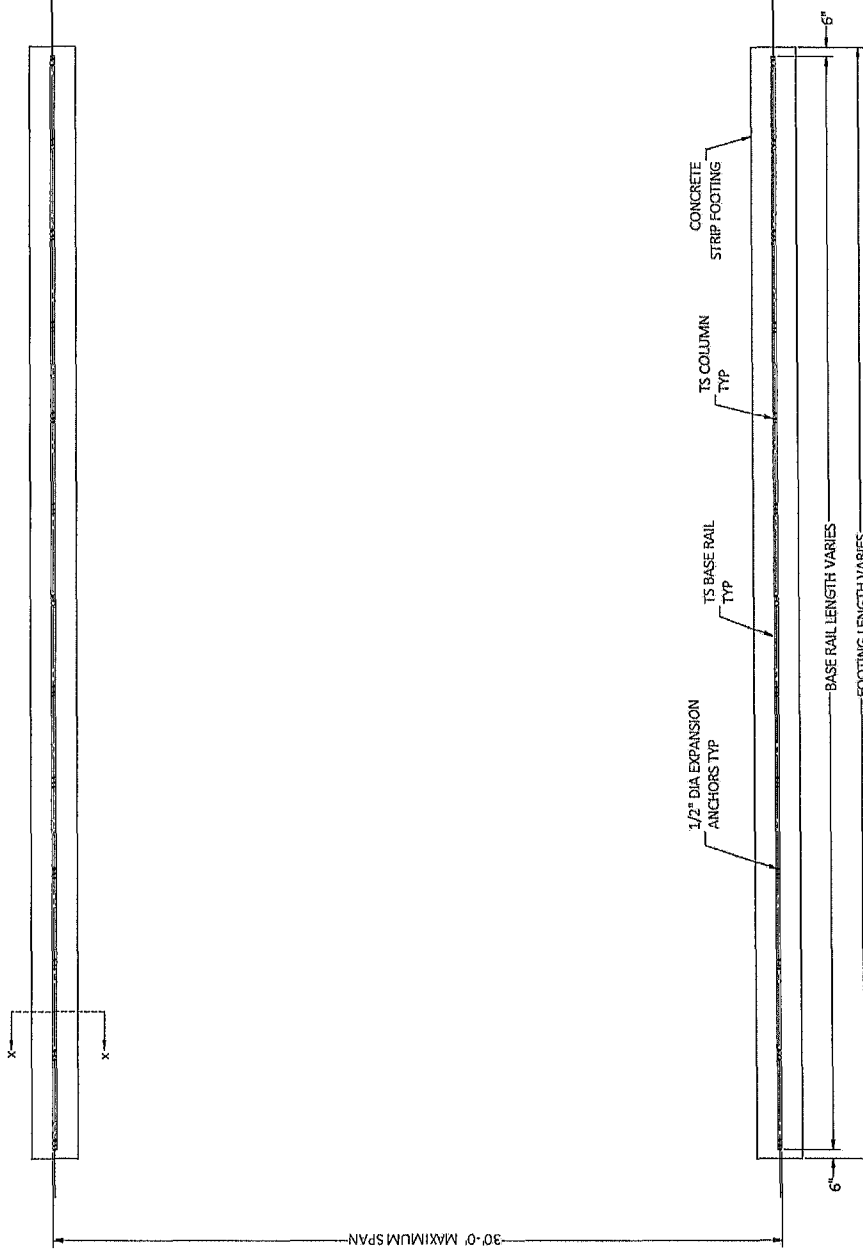
TYPICAL FLOOD VENT DETAIL

- NOTES:
1. MINIMUM VENT SPACE REQUIRED = 1 SQ. IN. OF OPEN VENT AREA PER SQ. FT. OF BUILDING AREA.
 2. PROVIDE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES OF EACH ENCLOSED BUILDING
 3. APPLY A 1.3 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2"-18GAS OR F EXPANDED METAL
 4. TOTAL OPEN AREA OF VENT = L X H (MIN. 12")
 5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP
 6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NFIP MAY BE USED

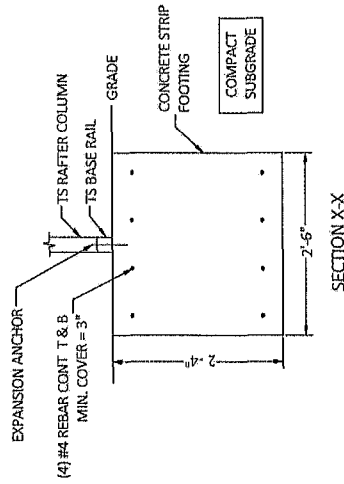
GENERAL NOTES
CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF

- CONCRETE
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI
- REINFORCING STEEL
1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMANENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
4. REINFORCEMENT IS BENT COLD.
5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN



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SEAL
RICHARD E. WALKER
P.E.
102601-3591
Date: 2024.01.16
Signed by: Richard E. Walker
Digitally signed by Richard E. Walker

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