STRUCTURAL DESIGN

OPEN STRUCTURE WITH ENCLOSED LEAN-TO BUILDING OPTION EXPOSURE B

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE AND BOW FRAME

24 February 2021
Revision 2
M&A Project No. 16159S/18027S/20352S

Prepared for:

Tubular Building Systems, LLC
P.O. Box 2254
Lake City, Florida 32025

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

Prepared by:

Moore and Associates Engineering and Consul
1009 East Avenue
North Augusta, SC 29841

401 S. Main Street, Suite 200
Mount Airy, NC 27030

WAYNE S. MOORE
LICENSE
No 57170
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Wayne S Moore
Digitally signed by Wayne S Moore
Date: 2021.10.21 08:27:38 -04'00'

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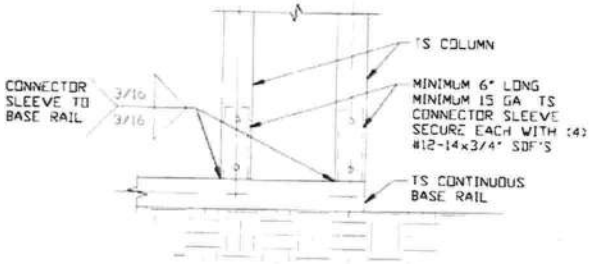
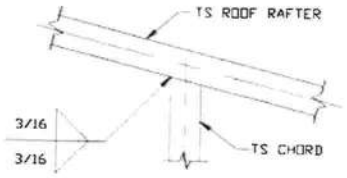
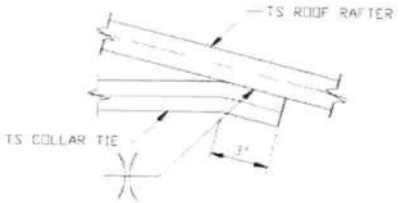
CONNECTION DETAILS



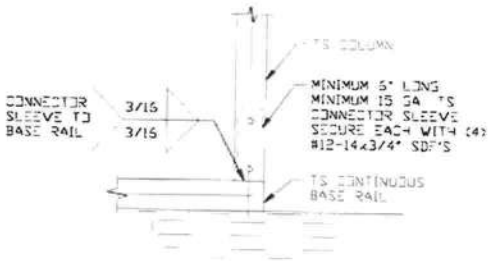
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL
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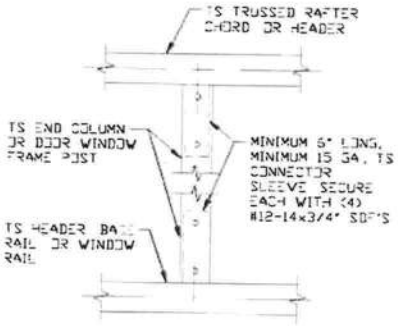

14 COLUMN TO HEADER, BASE RAIL CONNECTION DETAIL
SCALE: NTS

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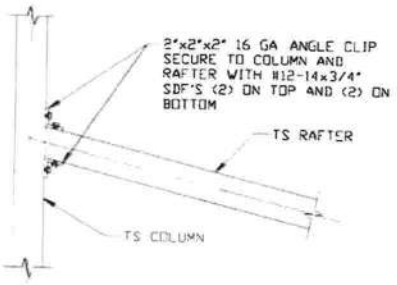
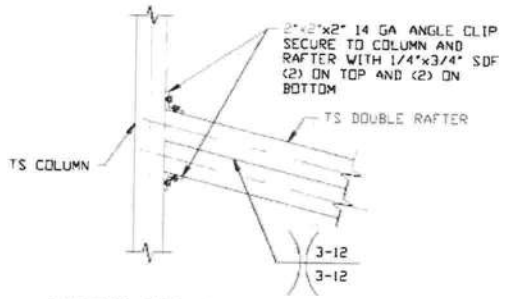
CHECKED BY: PDH				
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/ 17300S/20352S	
CLIENT: TBS	SHT. 13	DWG. NO: SK-3	REV.: 6	

BOX EAVE RAFTER LEAN-TO OPTIONS



16 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 15'-0"

SCALE: NTS



16A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < TO ≤ 24'-0"

SCALE: NTS

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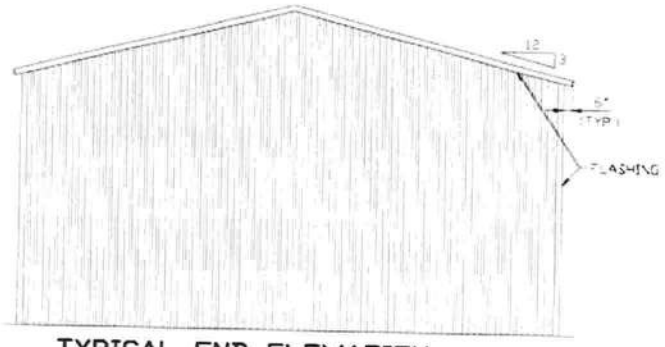
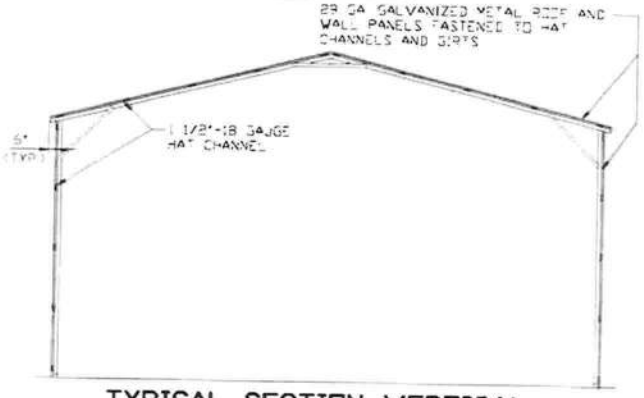
CLIENT: TBS	SHT. 14A	DWG. NO: SK-3	REV.: 6	

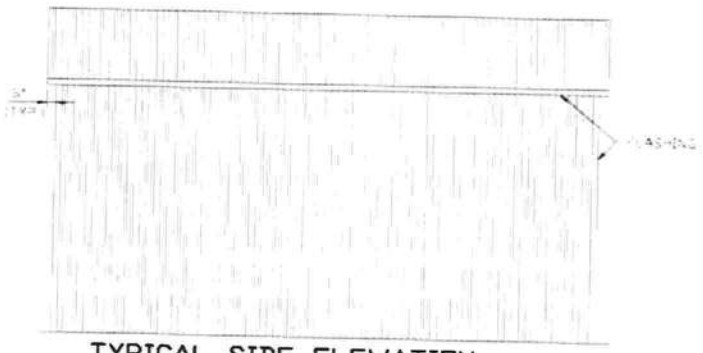
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



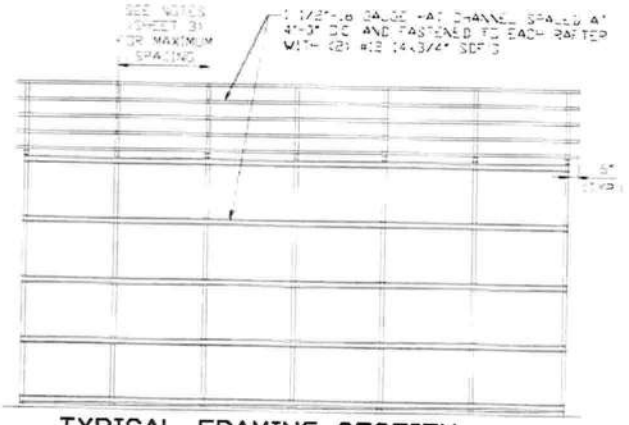
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



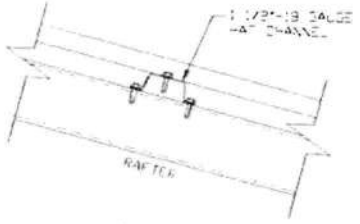
TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION
SCALE: NTS



TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS
NOTE: IS WALL GIRTS CAN BE USED AS AN OPTION IN PLACE OF HAT CHANNELS. GIRTS MUST BE SPACED AT 4'-0" (MAX.) O.C.



ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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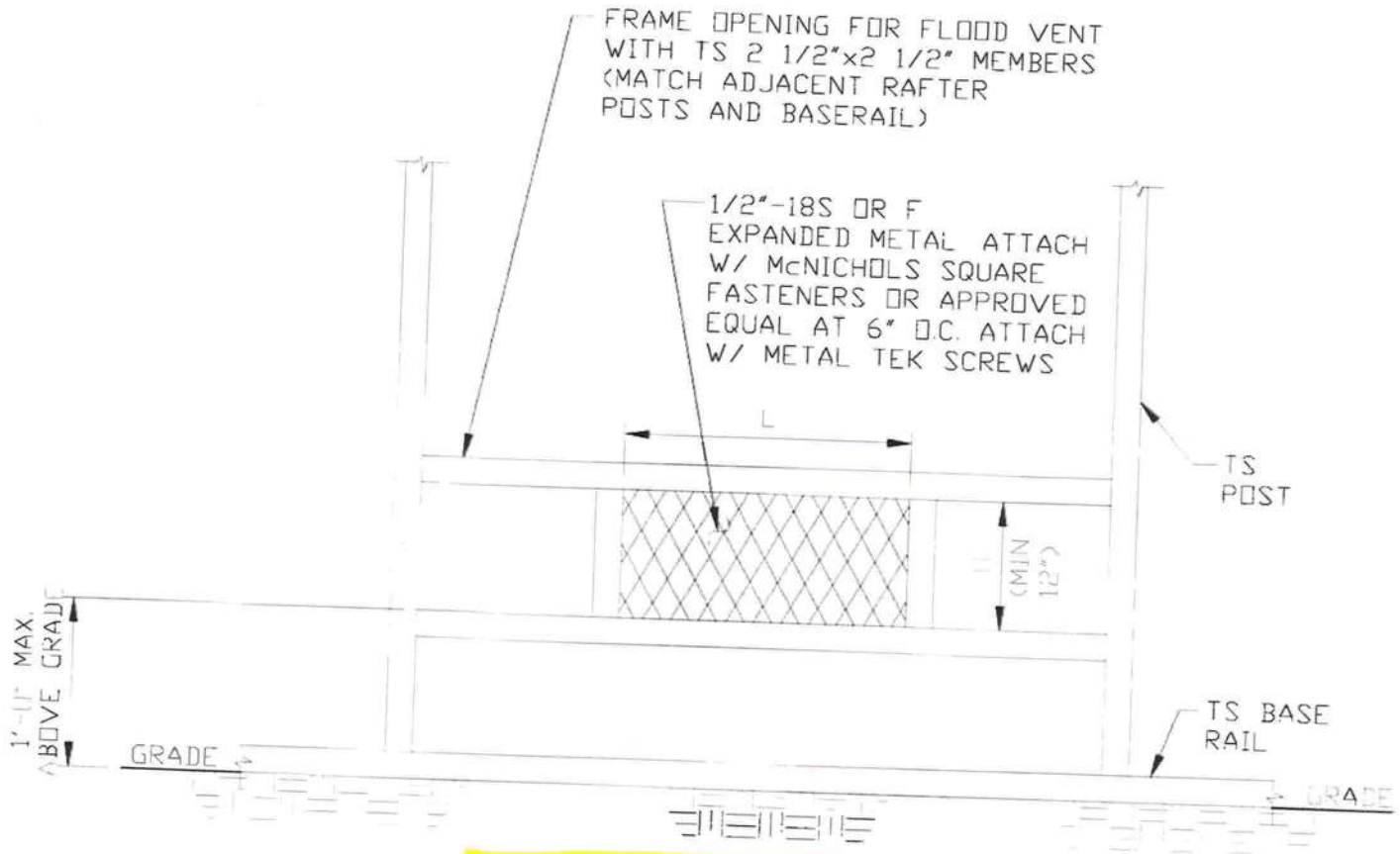
CLIENT: TBS	SHT. 16	DWG. NO: SK-3	REV.: 6	

FLOOD VENT DETAIL



TYPICAL FLOOD VENT DETAIL

SCALE: NTS

1. MINIMUM VENT SPACE REQUIRED = 1 SQ INCH OF OPEN VENT AREA PER SQ FOOT OF BUILDING AREA
2. THERE SHALL BE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES FOR EACH ENCLOSED BUILDING
3. APPLY 1.3 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2"-18GA S OR F EXPANDED METAL
4. TOTAL OPEN AREA OF VENT = LxH(MIN 12")
5. FLOOD VENT DETAIL COMPLIES WITH FEMA/NFIP
6. PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NIFIP MAY BE USED

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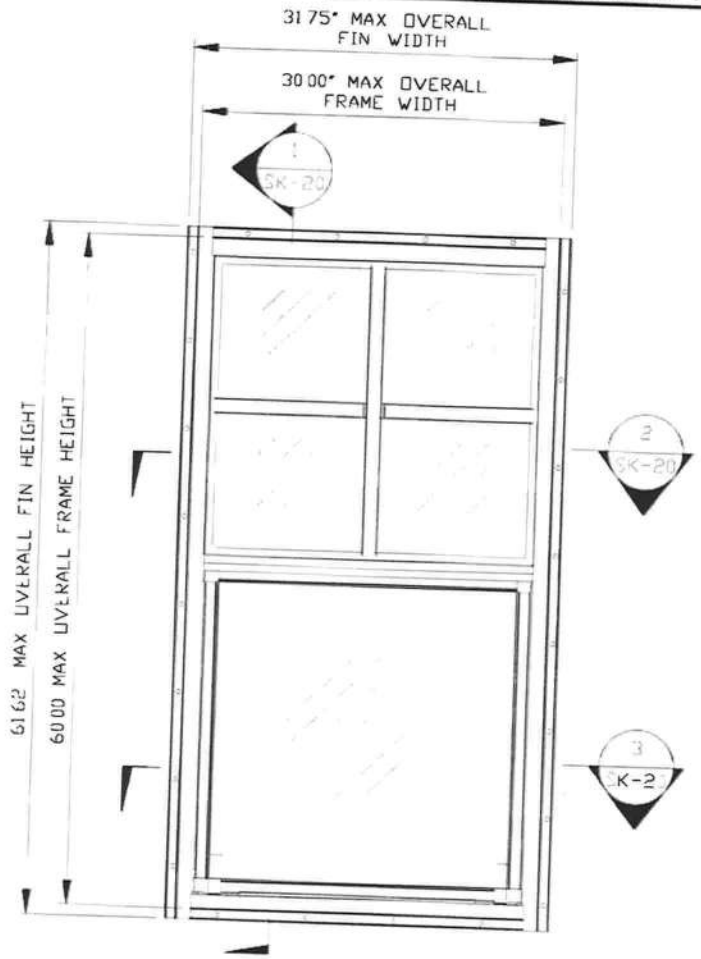
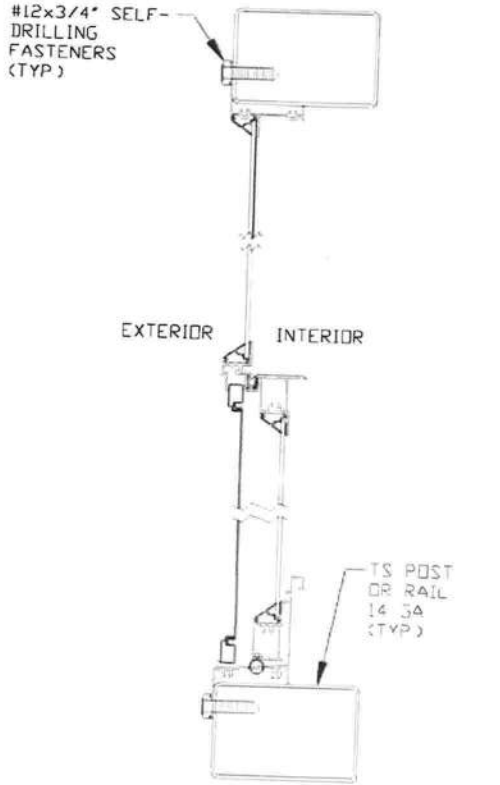
CLIENT: TBS	SHT. 18	DWG. NO: SK-3	REV.: 6	

VERTICAL SLIDING WINDOW DETAIL



ELEVATION VIEW

SCALE: NTS



SECTION

SCALE: 3"=1'-0" (1 SK-20)

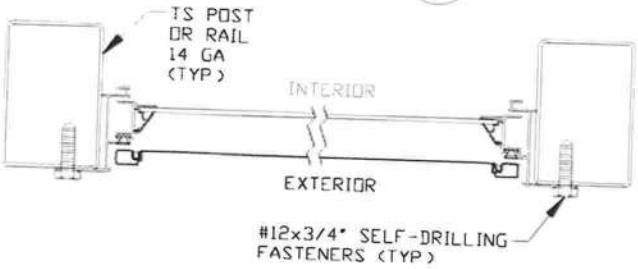
NOTE KINRO SERIES 18000-R VS OR EQUIVALENT WINDOW IS REQUIRED

POSITIVE WALL PRESSURE: +40.0 PSF

NEGATIVE WALL PRESSURE: -40.0 PSF

SECTION

SCALE: 3"=1'-0" (2 SK-20)



SECTION

SCALE: 3"=1'-0" (3 SK-20)

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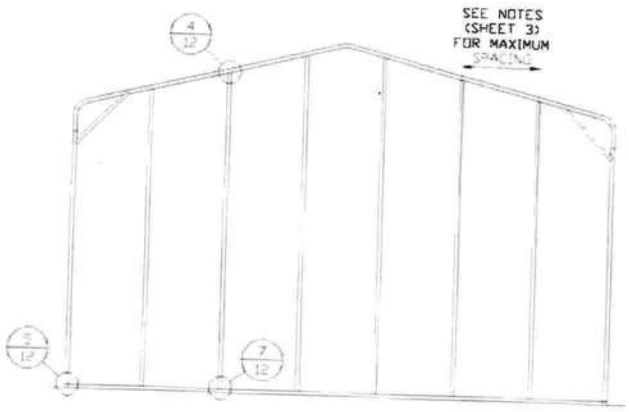
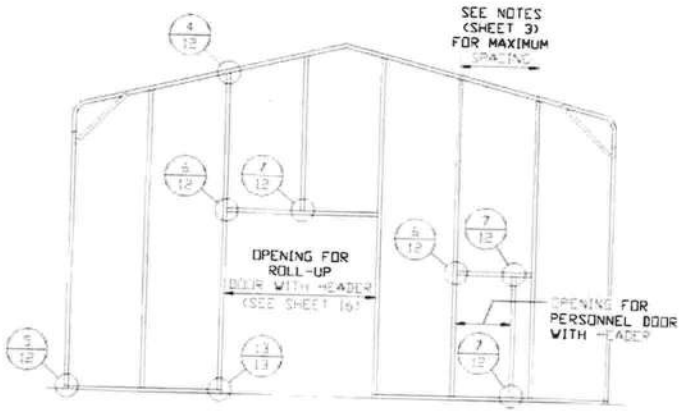
BOW RAFTER END WALL AND SIDE WALL OPENINGS



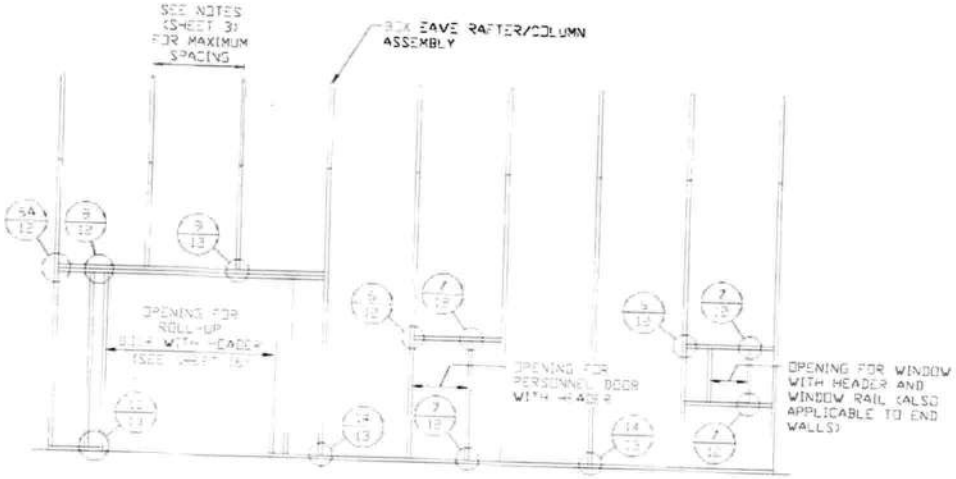
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS

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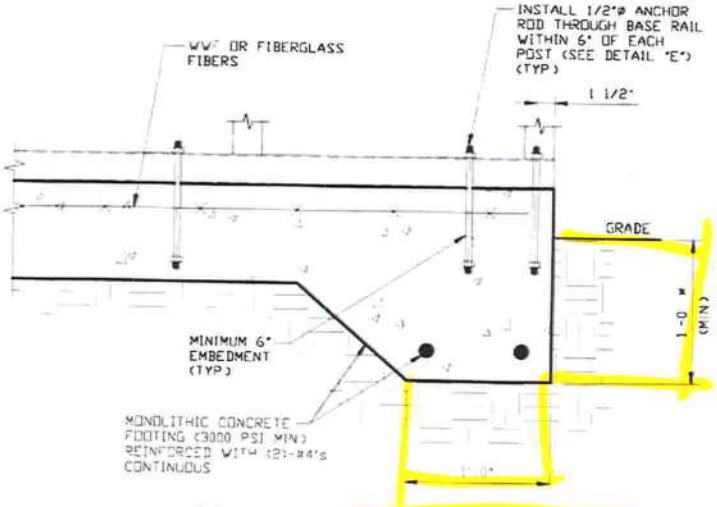
CLIENT: TBS	SHT. 11	DWG. NO: SK-3	REV.: 6	

OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED

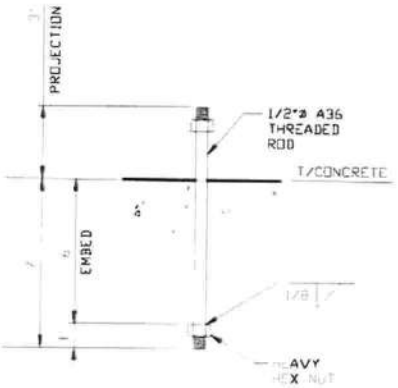


3C **CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE**

SCALE NTS

MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2"

* COORDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH REQ



3D **ANCHOR ROD THROUGH BASE RAIL DETAIL**

SCALE NTS

GENERAL NOTES

NOTE CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318

3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1 REINFORCEMENT IS BENT COLD
2 THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

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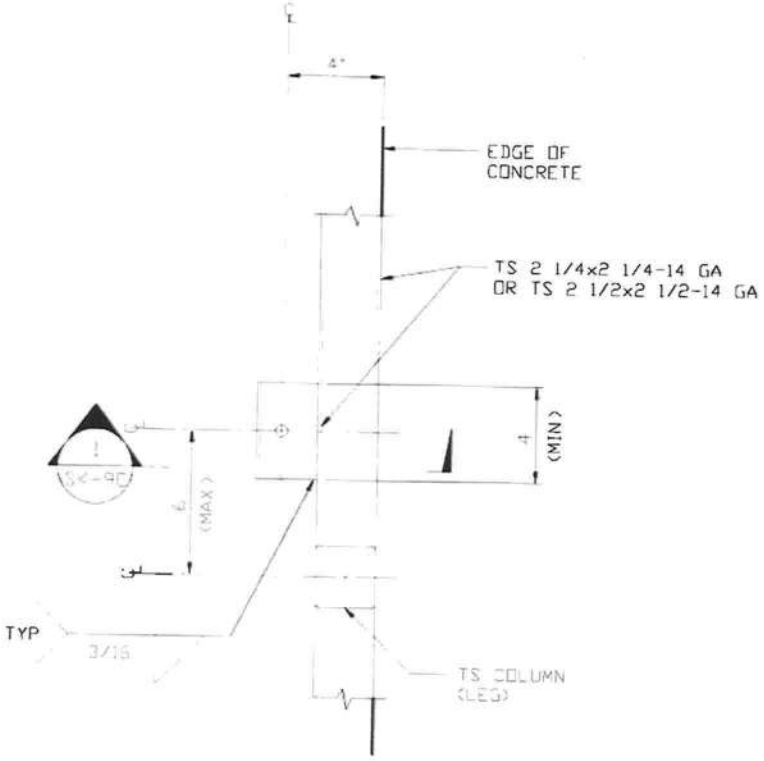
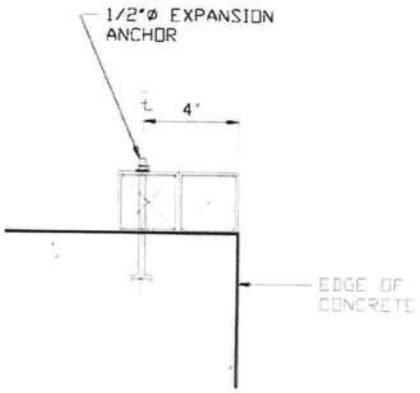
CLIENT: TBS	SHT. 9A	DWG. NO: SK-3	REV: 6	

BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE NTS



SECTION 1 (SK-9C)

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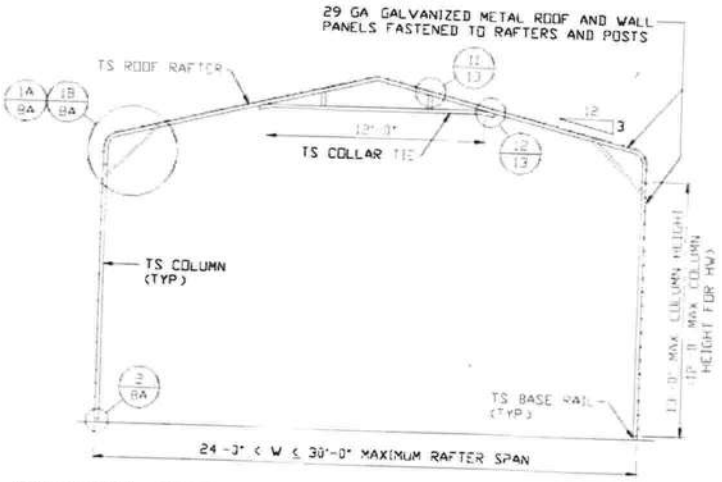
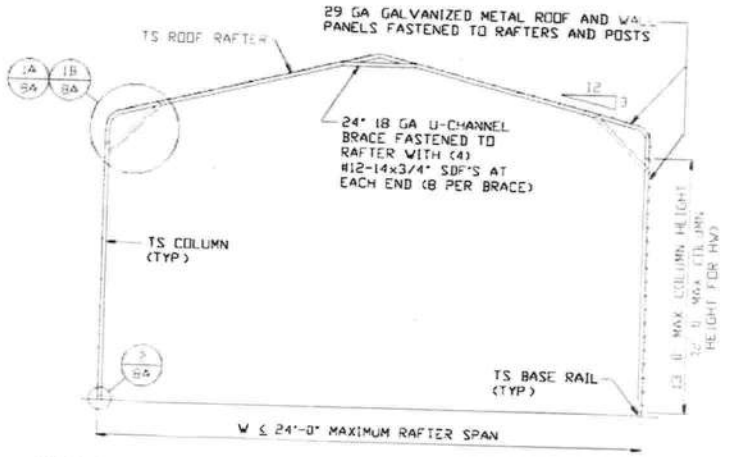


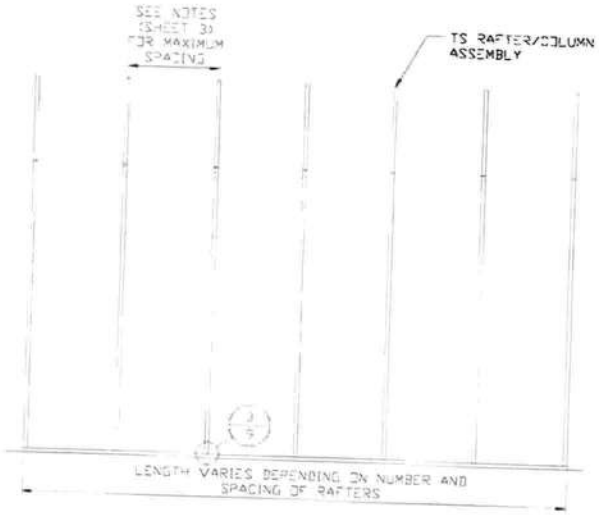
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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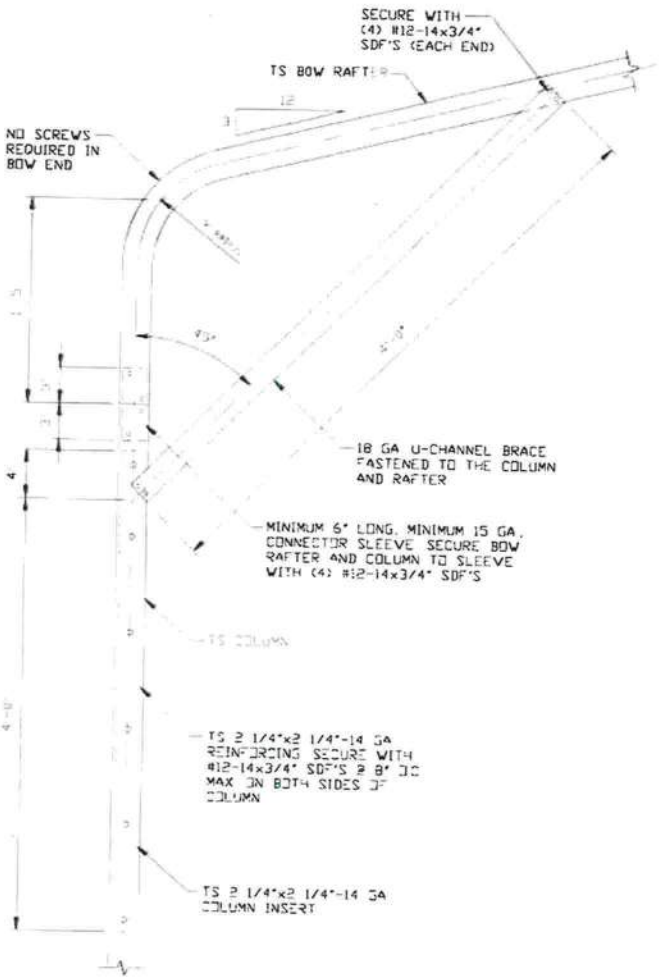
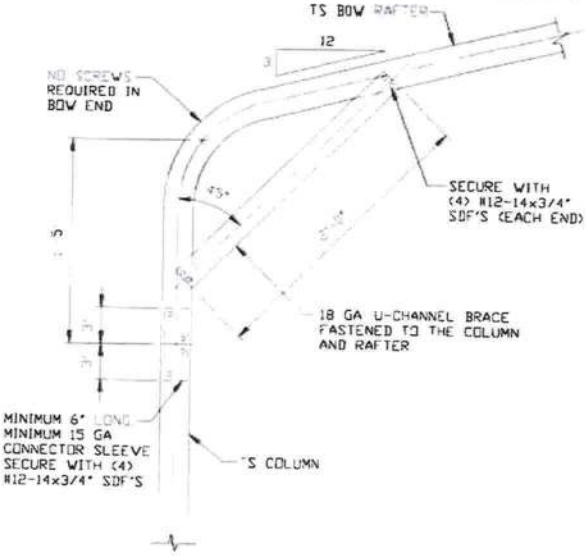


1A BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 13'-0"

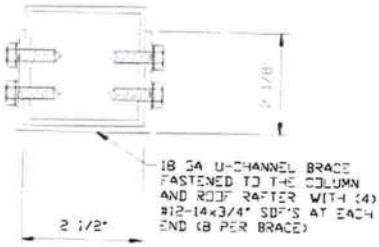
SCALE: NTS

NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR HIGH WIND



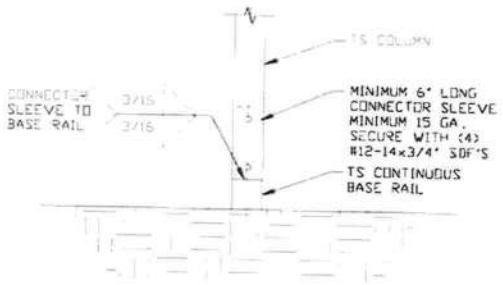
1B BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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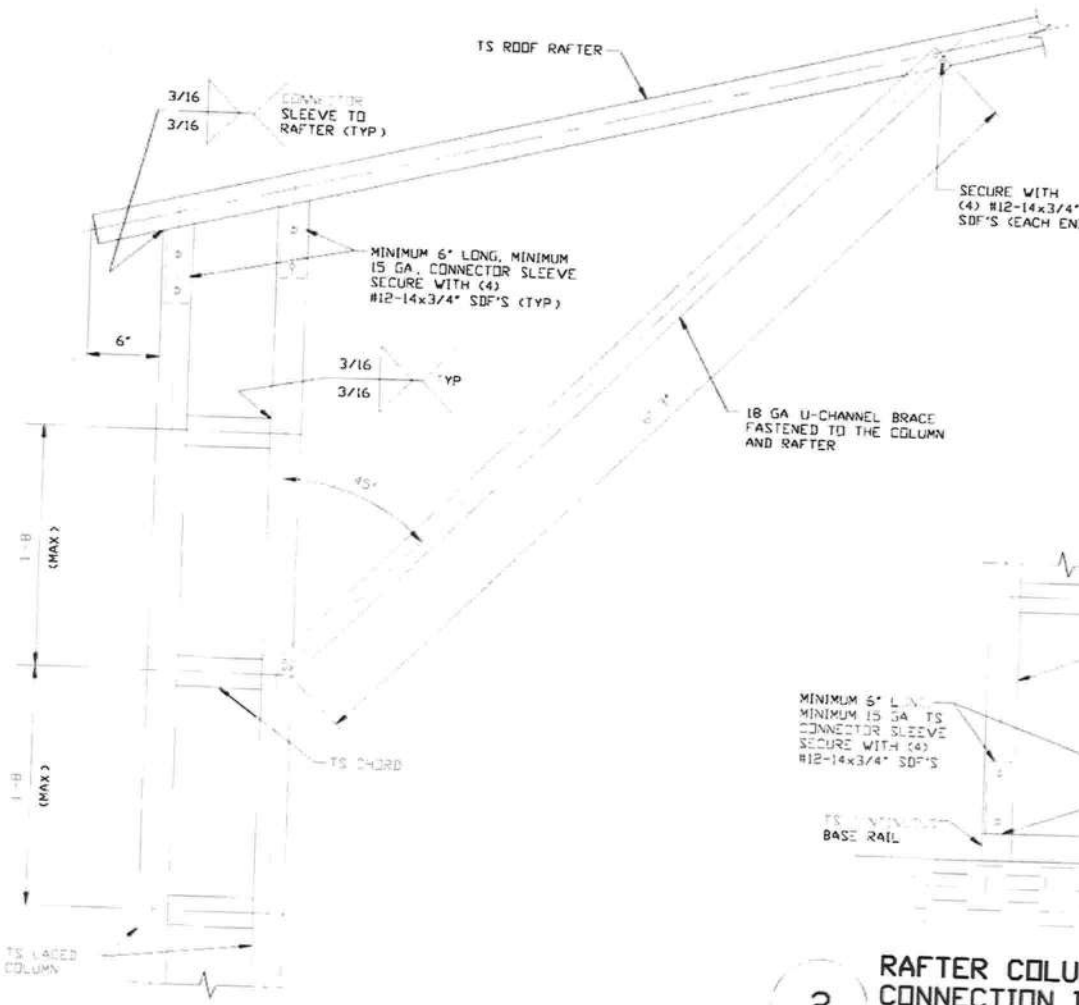
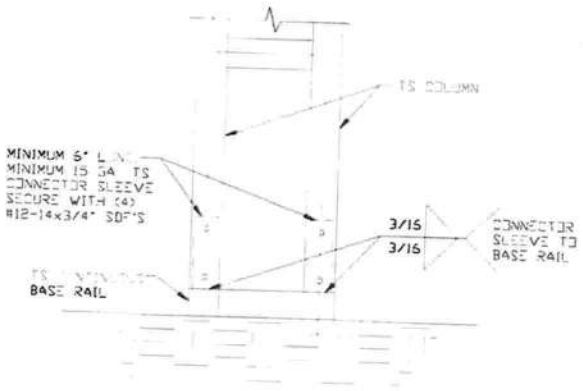


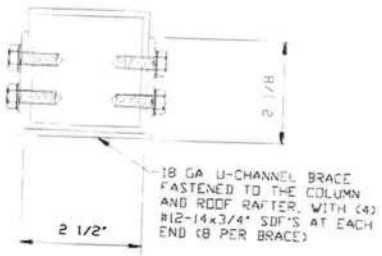
1 BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

SCALE: NTS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



BRACE SECTION

SCALE: NTS

WAYNE S. MOORE
LICENSE
No 57170
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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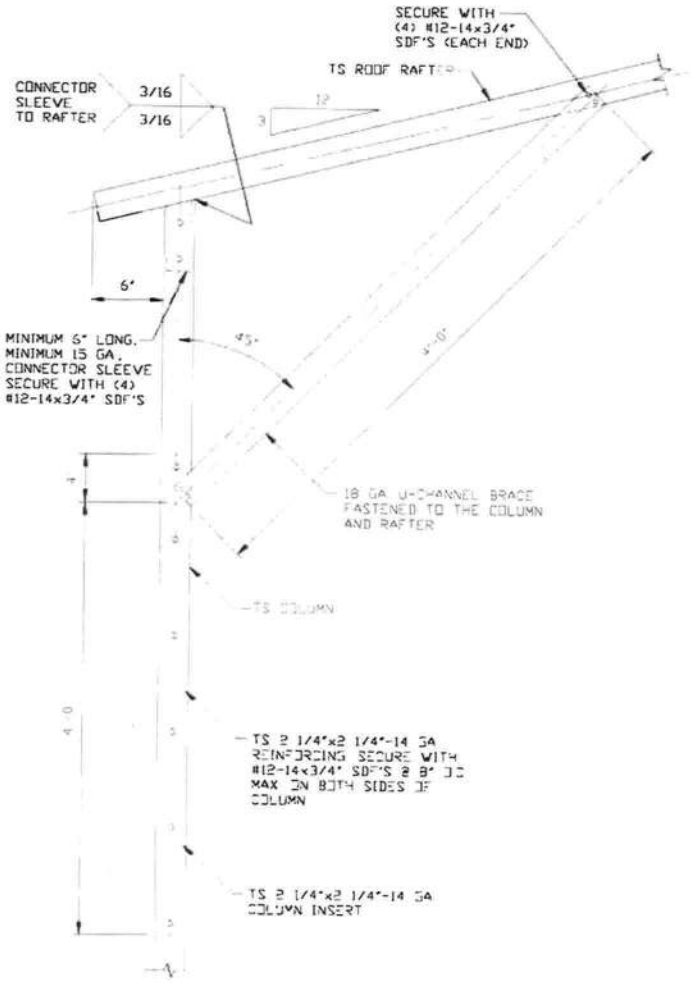
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

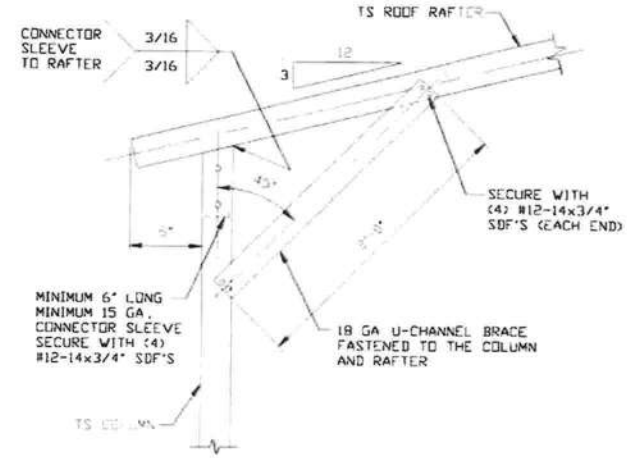
DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
CHECKED BY: PDH				
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/17300S/20352S	
CLIENT: TBS	SHT. 6	DWG. NO: SK-3	REV.: 6	



1A BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 13'-0"

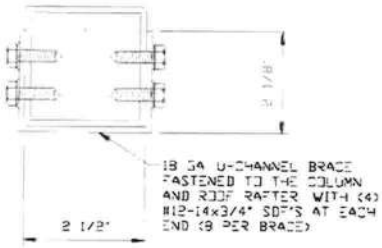
SCALE: NTS

NOTE MAXIMUM COLUMN HEIGHT IS 12'-0" FOR HIGH WIND



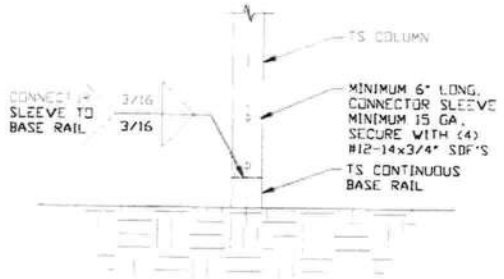
1B BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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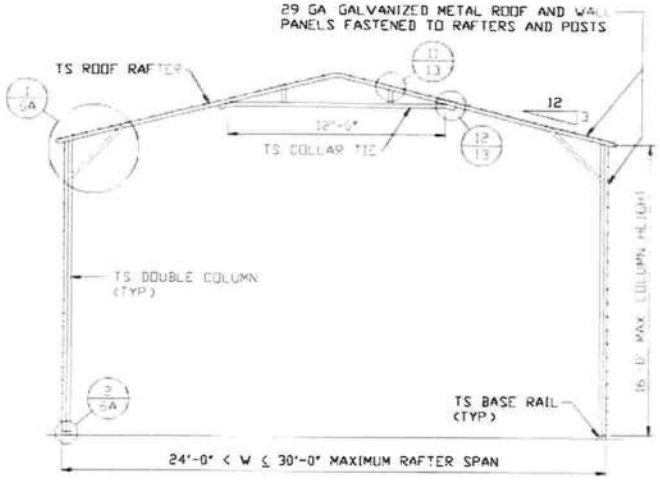
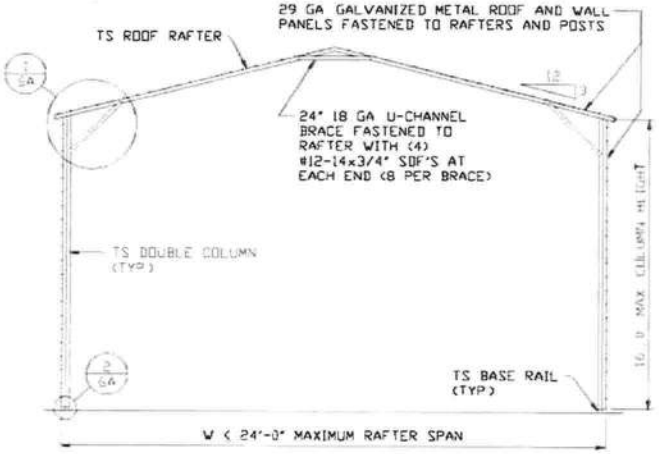
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/17300S/20352S
CLIENT: TBS	SHT. 6B	DWG. NO: SK-3	REV.: 6



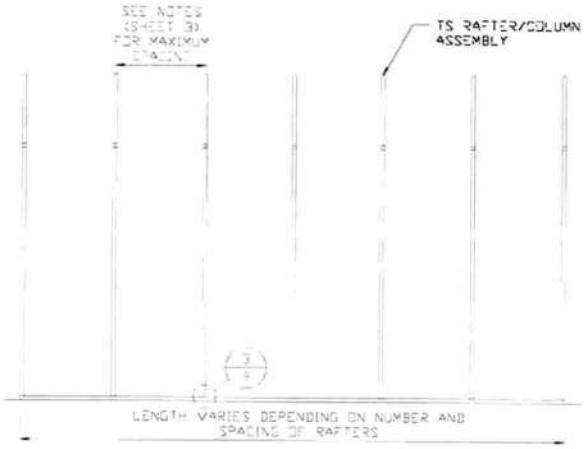
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE NTS

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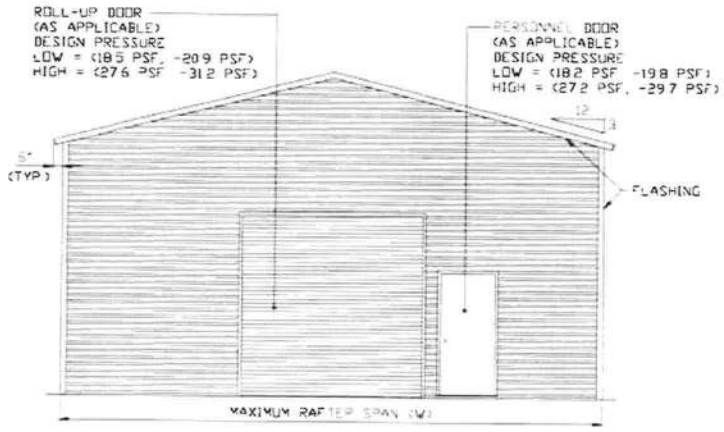
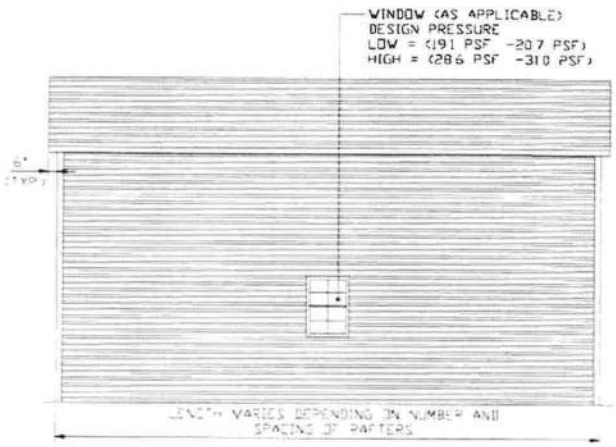
CHECKED BY: PDH				
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/ 17300S/20352S	
CLIENT: TBS	SHT. 5A	DWG. NO: SK-3	REV.: 6	

BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION

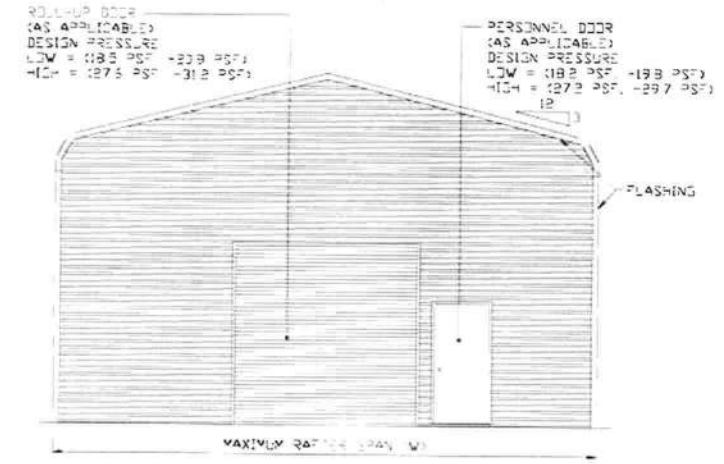
SCALE: NTS



TYPICAL SIDE ELEVATION

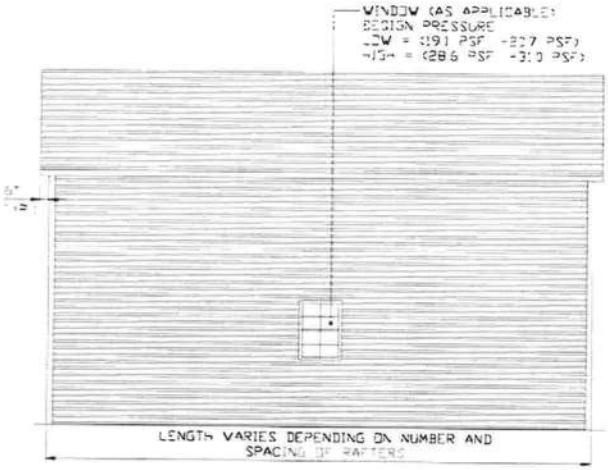
SCALE: NTS

BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/ 17300S/20352S	
CLIENT: TBS	SHT. 4	DWG. NO: SK-3	REV.: 6	

DRAWING INDEX

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PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO: 16022S/ 17300S/20352S
CLIENT: TBS	SHT. 2	DWG. NO: SK-3	REV: 6

STRUCTURAL DESIGN

ENCLOSED BUILDING
EXPOSURE B

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE FRAME AND BOW FRAME

29 July 2021
Revision 6
M&A Project No. 16022S/17300S/20352S

Prepared for:

Tubular Building Systems, LLC
631 SE Industrial Circle
Lake City, Florida 32025

Prepared by:

Moore and Associates Engineering and Consulting, Inc.
1009 East Avenue
North Augusta, SC 29841

401 S. Main Street, Suite 200
Mount Airy, NC 27030

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

WAYNE S. MOORE
LICENSE
No 57170
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Wayne S Moore
Digitally signed by Wayne S Moore
Date: 2021.10.21 08:30:02 -04'00'

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING

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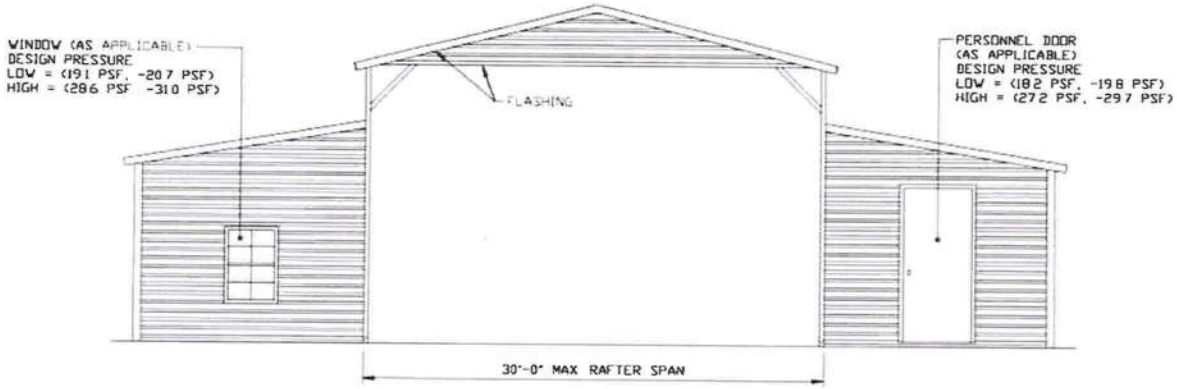
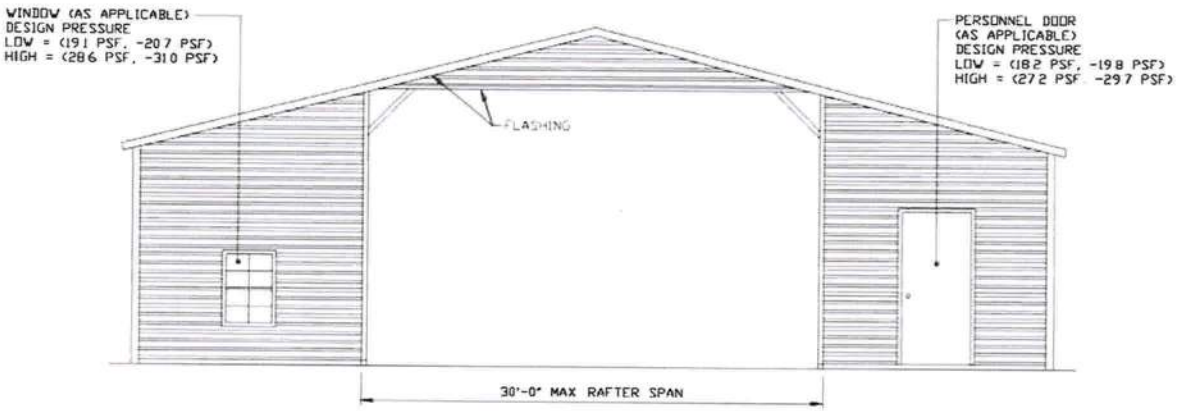
BOX EAVE RAFTER VERTICAL ROOF LEAN-TO OPTION



TYPICAL END ELEVATION VERTICAL ROOF-STANDARD LEAN-TO

SCALE: NTS



TYPICAL END ELEVATION VERTICAL ROOF-ROOF EXTENSION LEAN-TO

SCALE: NTS

NOTE: SEE MASTER DESIGN FOR MAXIMUM 30'-0" WIDE x 13'-0" EAVE HEIGHT -BOX EAVE FRAME AND BOW FRAME OPEN BUILDING-EXPOSURE B (RISK CATEGORY I) FOR STRUCTURAL PLAN, ELEVATION, SECTION AND DETAIL INFORMATION

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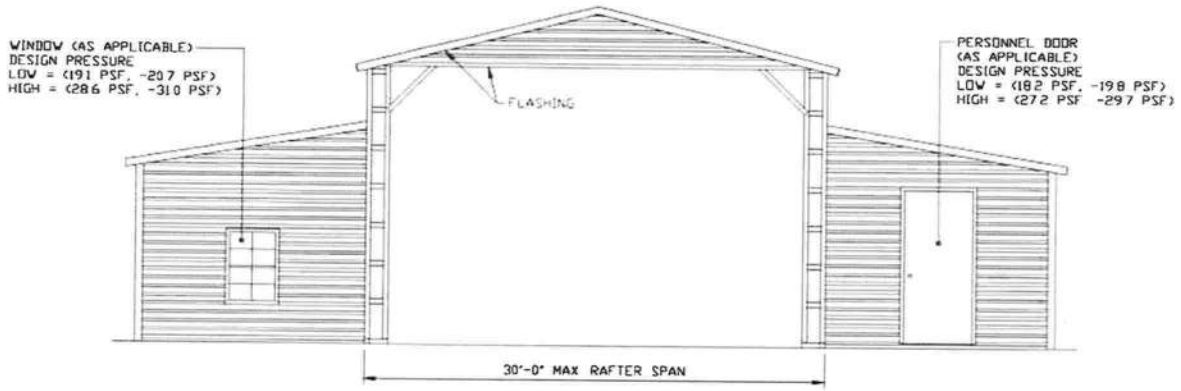
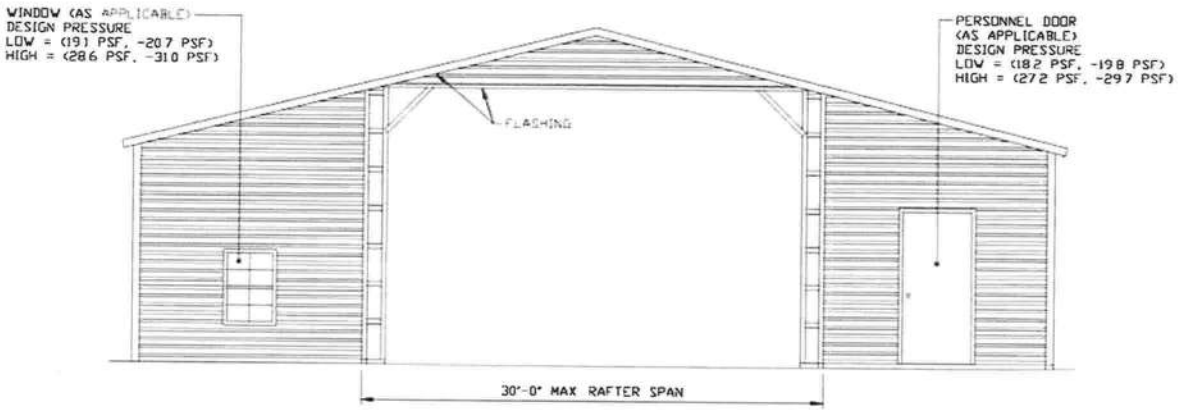
	CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 2-24-21	SCALE: NTS	JOB NO: 16159S/ 18027S/20352S	
CLIENT: TBS	SHT. 4	DWG. NO: SK-1		REV: 2

BOX EAVE RAFTER VERTICAL ROOF LEAN-TO OPTION



TYPICAL END ELEVATION VERTICAL ROOF-STANDARD LEAN-TO

SCALE: NTS



TYPICAL END ELEVATION VERTICAL ROOF-ROOF EXTENSION LEAN-TO

SCALE: NTS

NOTE SEE MASTER DESIGN FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT -BOX EAVE FRAME AND BOW FRAME OPEN BUILDING-EXPOSURE B (RISK CATEGORY 1) FOR STRUCTURAL PLAN, ELEVATION, SECTION AND DETAIL INFORMATION

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	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 2-24-21	SCALE: NTS	JOB NO: 161595/ 180275/203525
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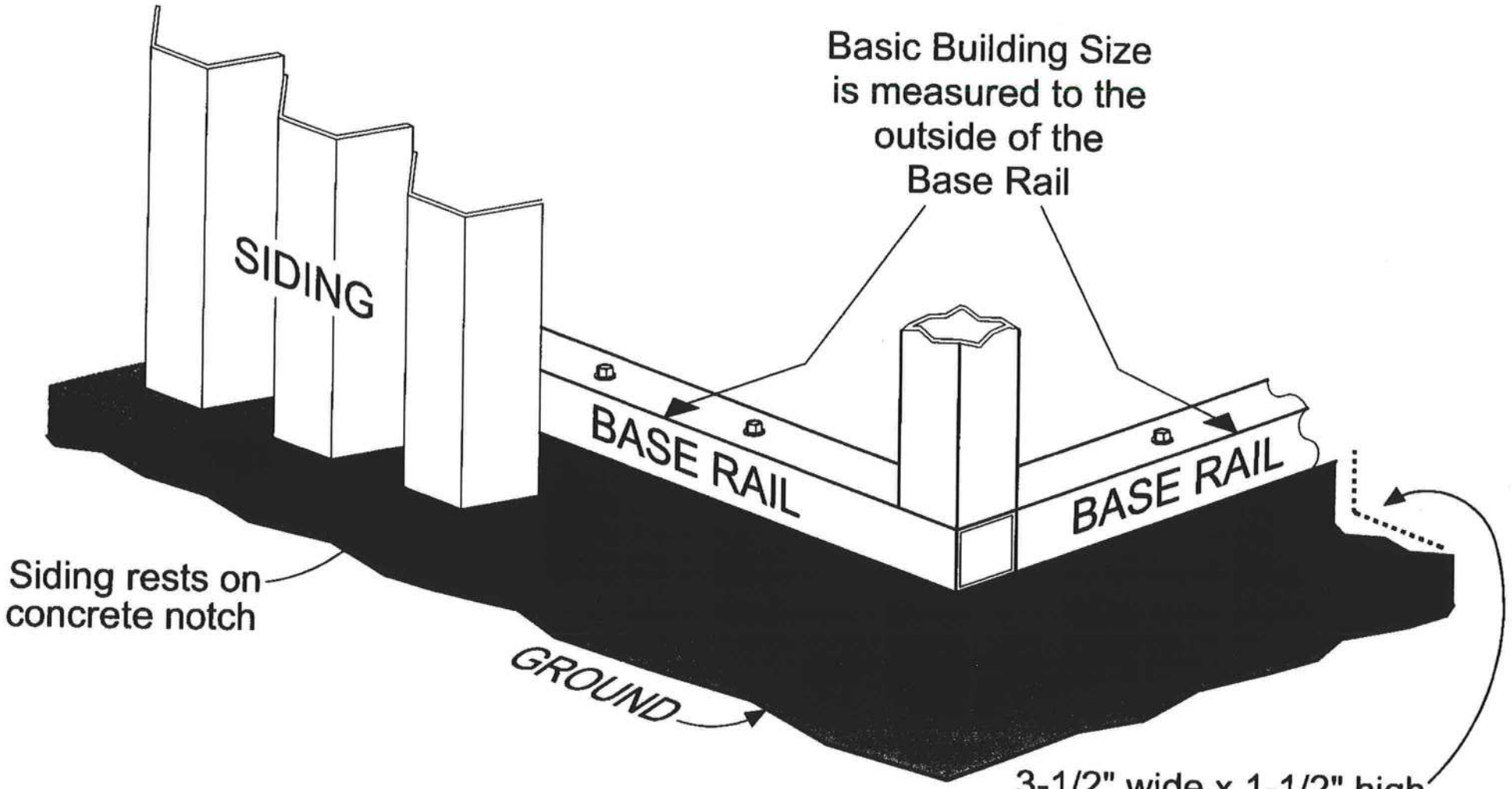
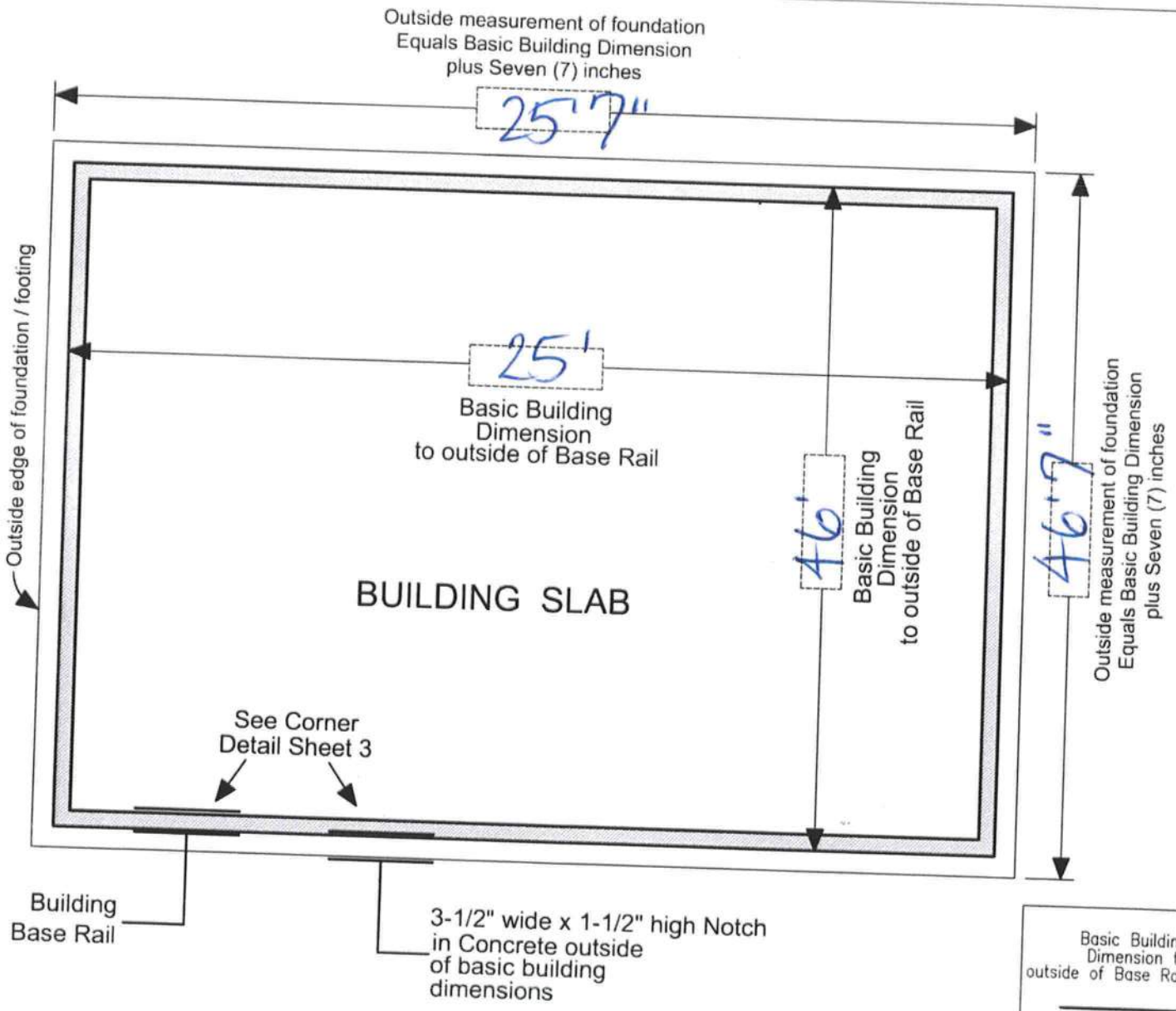


TBS
TUBULAR BUILDING SYSTEMS

TYPICAL BUILDING

CORNER DETAIL

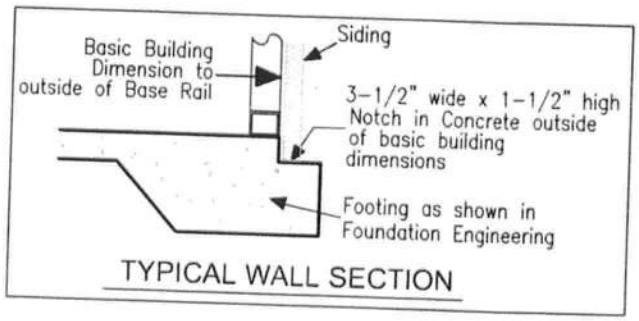


IMPORTANT - NOTES

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

TUBULAR BUILDING SYSTEMS

TYPICAL BUILDING
FOUNDATION MEASUREMENTS