

NB-0315APRF_BB

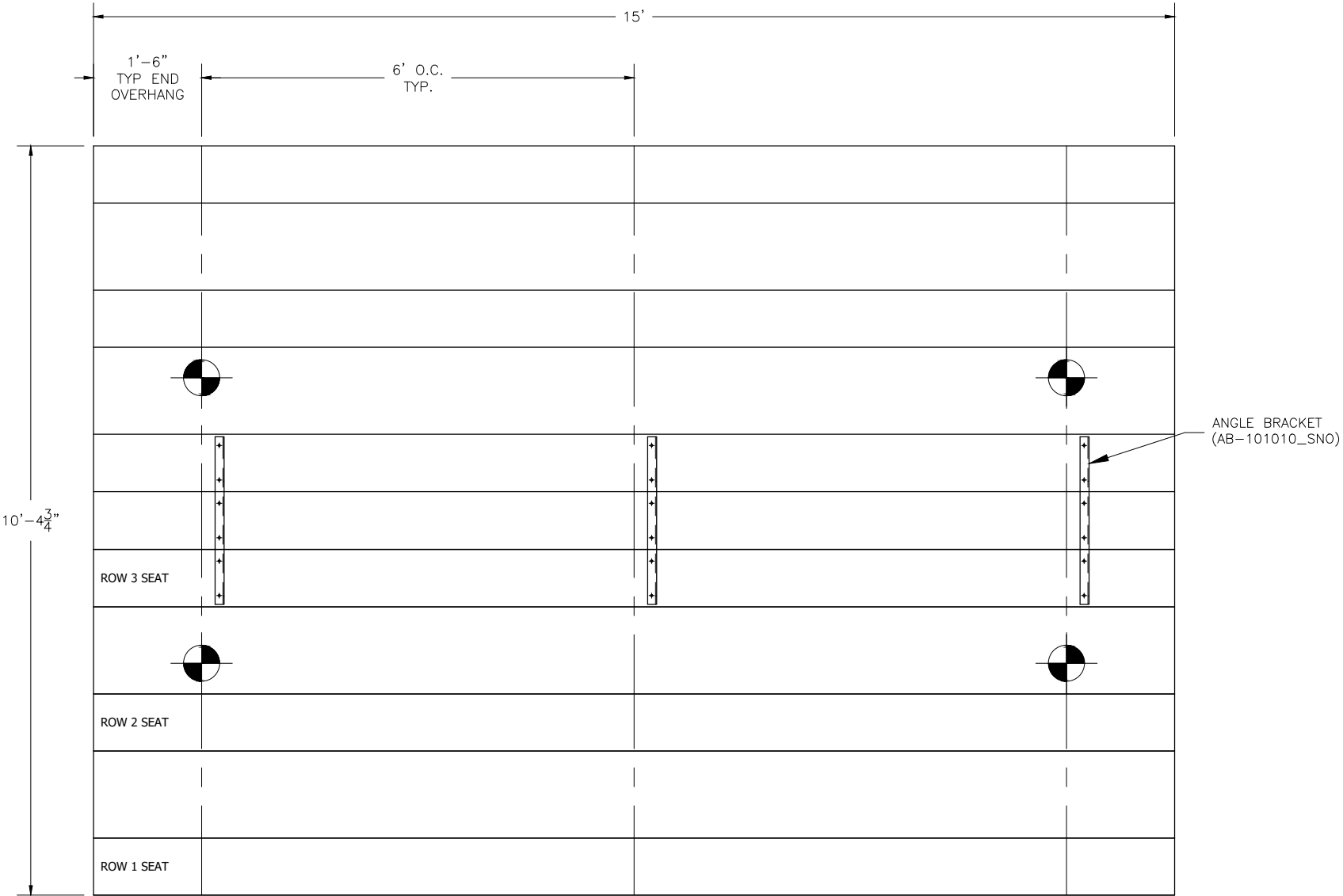
BACK TO BACK NON ELEVATED 3 ROW x 15'-0" BLEACHER

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5077 Northampton Drive, Fort Myers, FL 33919

CS.1	– COVER SHEET
TD.1	– BLEACHER SEATING PLAN
FP.1	– FOUNDATION PLAN
BA.1	– BLEACHER ASSEMBLY
BA.2	– BLEACHER ASSEMBLY
AP.1	– CONCRETE ANCHORING PLAN
AP.2	– AUGER ANCHORING PLAN
PF.1	– PLANK & FRAMING PLAN

BLEACHER TOP VIEW



 - INDICATES LOCATIONS OF GROUND AUGERS (WHERE APPLICABLE)

SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
15	10.00	10.00	6	60
NET SEATS				60
WHEELCHAIR SPACES				0
TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)				60

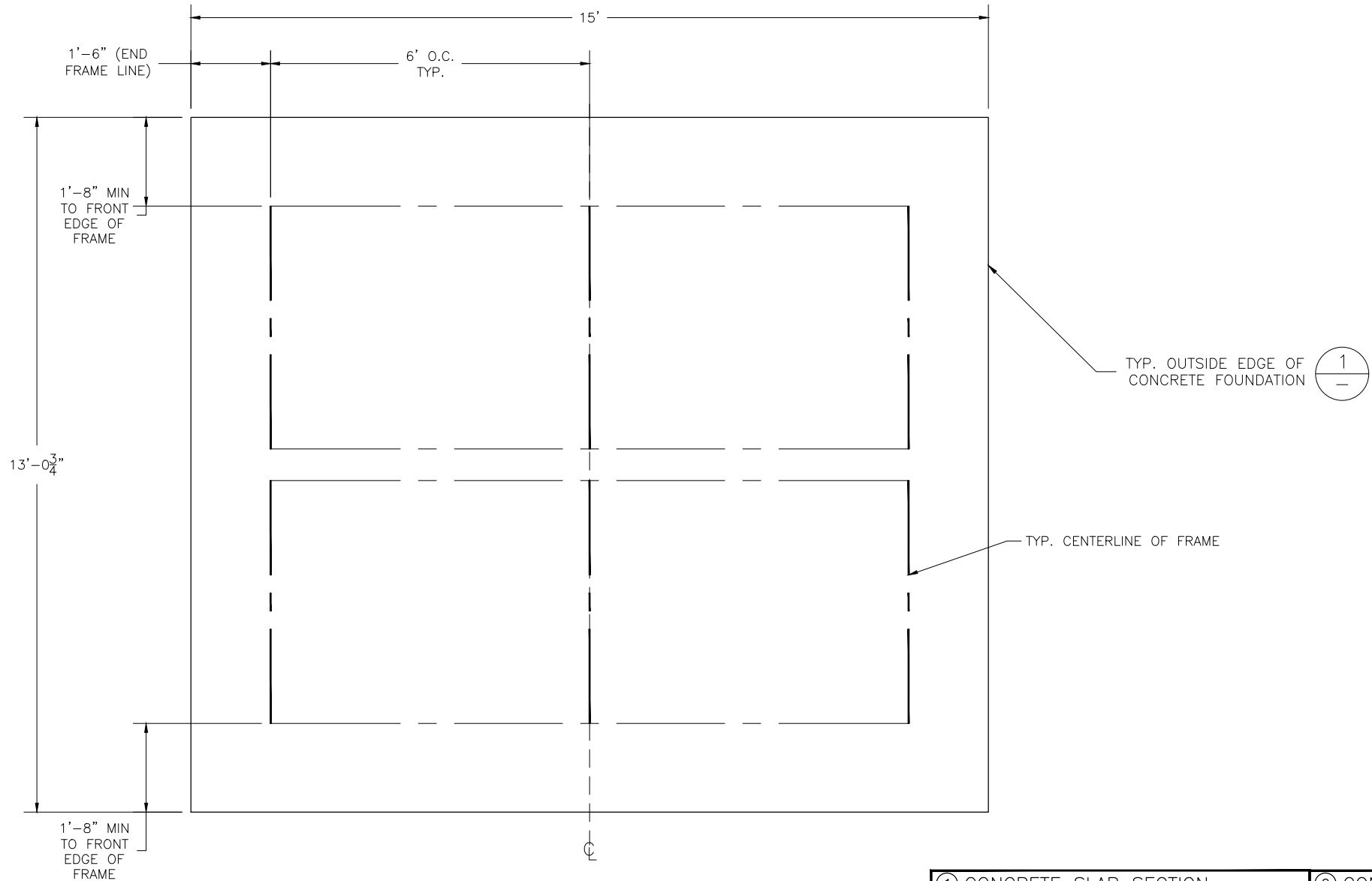


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SCALE: N.T.S.	APPROVED BY: CAK	DRAWN BY: JCM
DATE: 10/1/20		
TITLE: BACK TO BACK 3 ROW x 15'-0" BLEACHER SEATING PLAN		
BLEACHER MODEL #: NB-0315APRF_BB		DRAWING NUMBER: TD.1

LOCATE FRAMES ON FOUNDATION

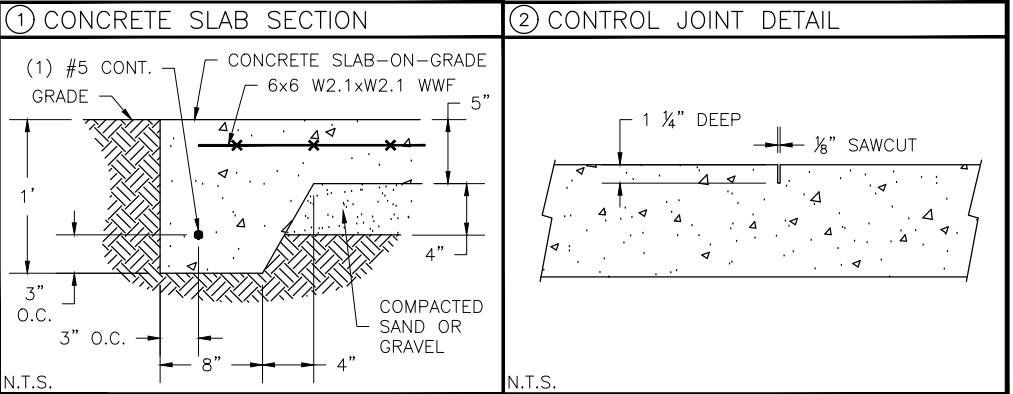


CONCRETE FOUNDATION SPECIFICATIONS

- SCOPE:**
Foundation construction is not part of NATIONAL RECREATION SYSTEMS, INC's., scope of work unless noted otherwise in the contract documents. The OWNER shall review the foundation design with local code authorities and coordinate with NRS, Inc.
- FOUNDATION DESIGN & ANCHORS:**
- The foundation designs are based on the following:
 - Minimum presumed soil bearing of 1000 psf.
 - Bleacher frame dead and live load of 700 lbs./ft.
 - Bleacher frame wind uplift of 250 lbs./ft.
 - Unless otherwise specified on the drawings the bleacher frames shall be attached to concrete with a 3/8" dia. x 3" wedge type expansion anchor. The anchors shall be embedded a minimum of 2" into the concrete.

- CONCRETE SPECIFICATIONS:**
- All concrete construction shall be in accordance with *ACI 318.08*.
 - All concrete shall be air-entrained using an air entraining admixtruing meeting *ASTM C620*. Total air content: 5%-7% per *ASTM C173*.
 - All concrete shall have a minimum 28-day strength of Fc=3000psi. Concrete shall have air-entrainment
 - A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
 - The depressions in the top of the foundations between high spots shall not exceed 3/16" below 10-foot long straightedge. The 10-foot straightedge method used to measure foundation flatness shall be in accordance with *ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction"*.

- CONCRETE SLAB RECOMMENDED SPECIFICATIONS:**
- Concrete slab shall have a minimum thickness of 5" (some areas may require 6") and placed on 4" of compacted gravel or compacted sub base.
 - NRS, INC., recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 1 1/2" concrete cover from the top. In lieu of welded wire fabric, steel fiber substitution requires OWNER approval and his understanding of potential maintenance issues.
 - Contractor may substitute blended fiber reinforcing, provided the blend consists of multifilament polypropylene fibers and cold drawn steel wire fibers. Novamesh 950 or approved equivalent, applied at a dosage rate of 5lb/CY unless specified otherwise or a different recommendation is made by the manufacturer.
 - Crack control joints shall be sawed into slab to form approximate square patterns. The maximum spacing for control joints shall not exceed 13'-6", UNLESS INDICATED OTHERWISE. The bleacher frames shall not be set on control joints. The designer shall contact NRS to coordinate joint spacing requirements with the specific bleacher design.
 - The slab may be sloped a maximum of 1/8 inch per foot for drainage. The maximum overall out of level slope for the slab perpendicular to the seats (front to rear) shall not exceed 2" and parallel to the seats (end to end) shall not exceed 4".



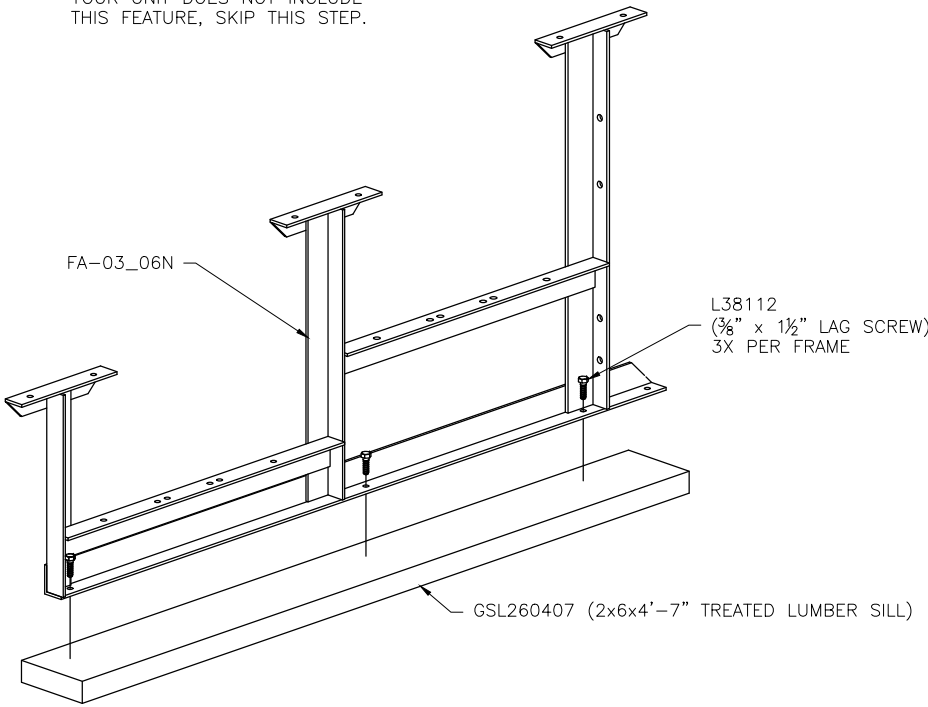
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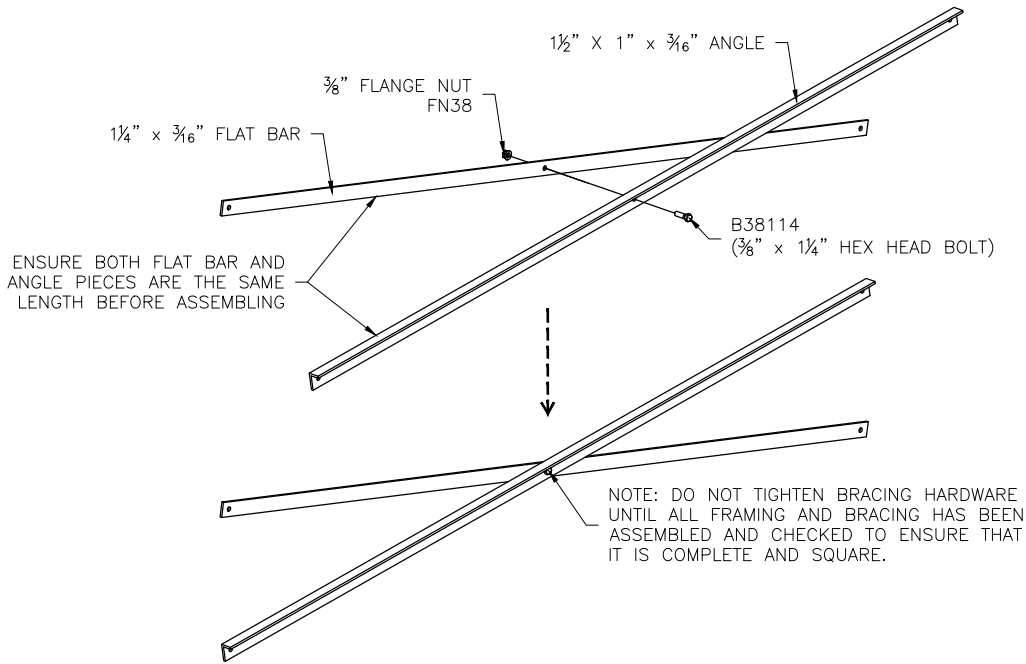
SCALE: N.T.S.	APPROVED BY: CAK	DRAWN BY: JCM
DATE: 10/1/20		
TITLE: BACK TO BACK 3 ROW x 15'-0" BLEACHER FOUNDATION PLAN		
BLEACHER MODEL #: NB-0315APRF_BB		DRAWING NUMBER: FP.1

(OPTIONAL) ATTACH GROUND SILLS *

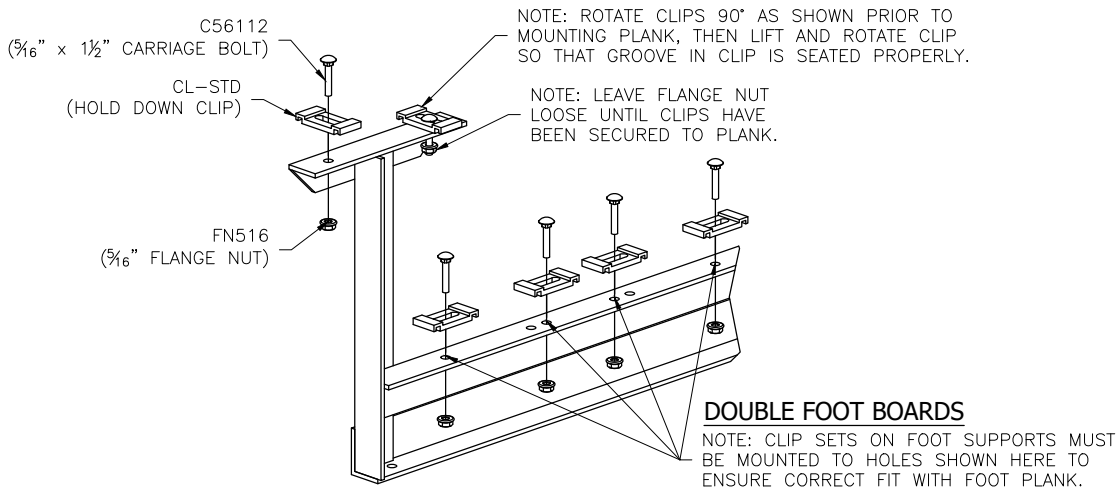
*NOT ALL BLEACHERS WILL RECEIVE GROUND SILLS. IF YOUR UNIT DOES NOT INCLUDE THIS FEATURE, SKIP THIS STEP.



PRE-ASSEMBLE X-BRACE PAIR(S)



ONCE FRAMING IS COMPLETE,
PRE-ASSEMBLE CLIP SETS ON BLEACHER FRAMES

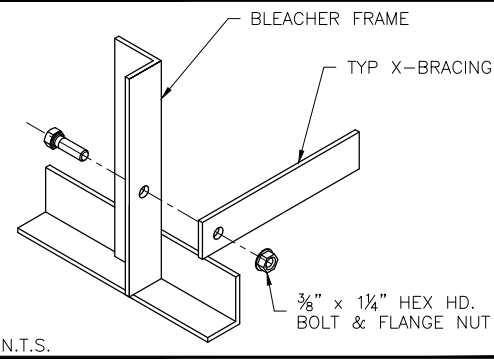


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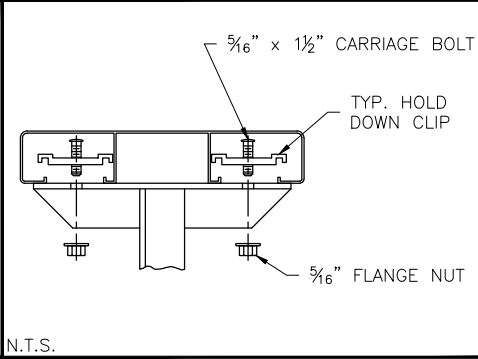
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SCALE: N.T.S.	APPROVED BY: CAK	DRAWN BY: JCM
DATE: 10/1/20		
TITLE: 3 ROW X 15'-0" FRAMING & CLIP SET PREPARATION		
BLEACHER MODEL #: NB-0315APRF_BB	DRAWING NUMBER: BA.1	

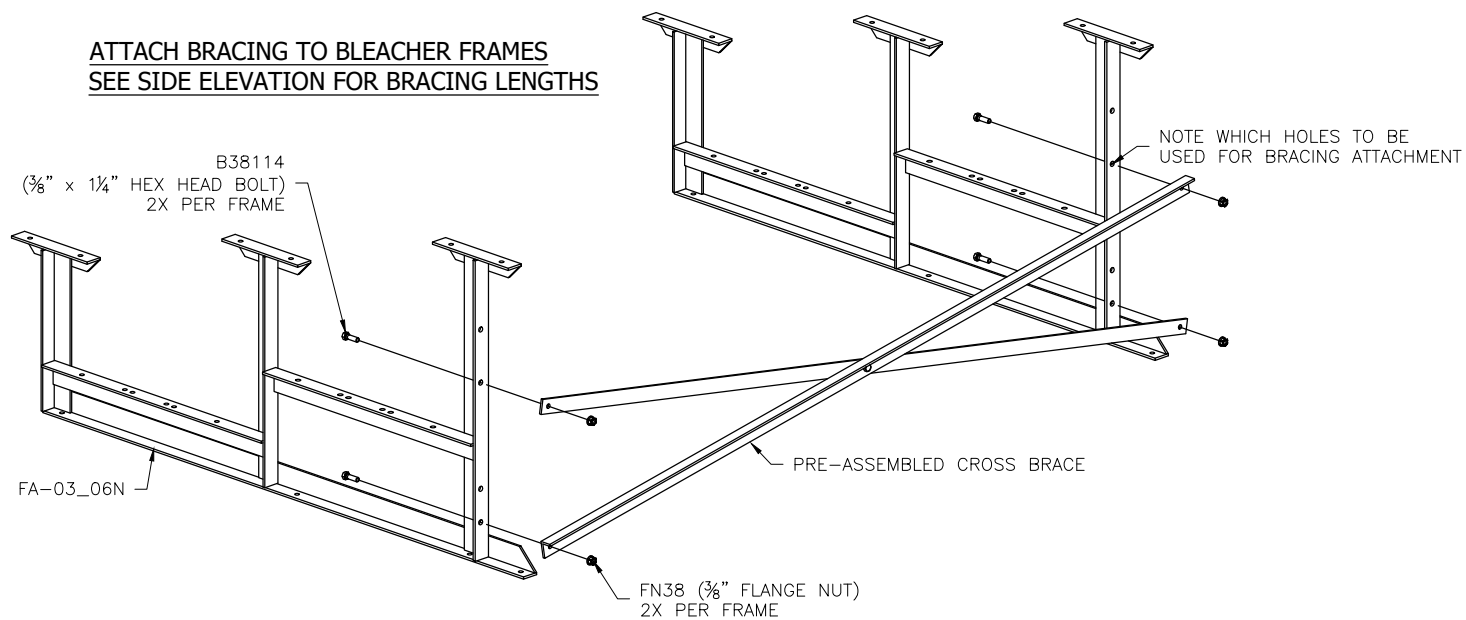
① TYP. BRACE CONN. — 1 1/4" BOLT



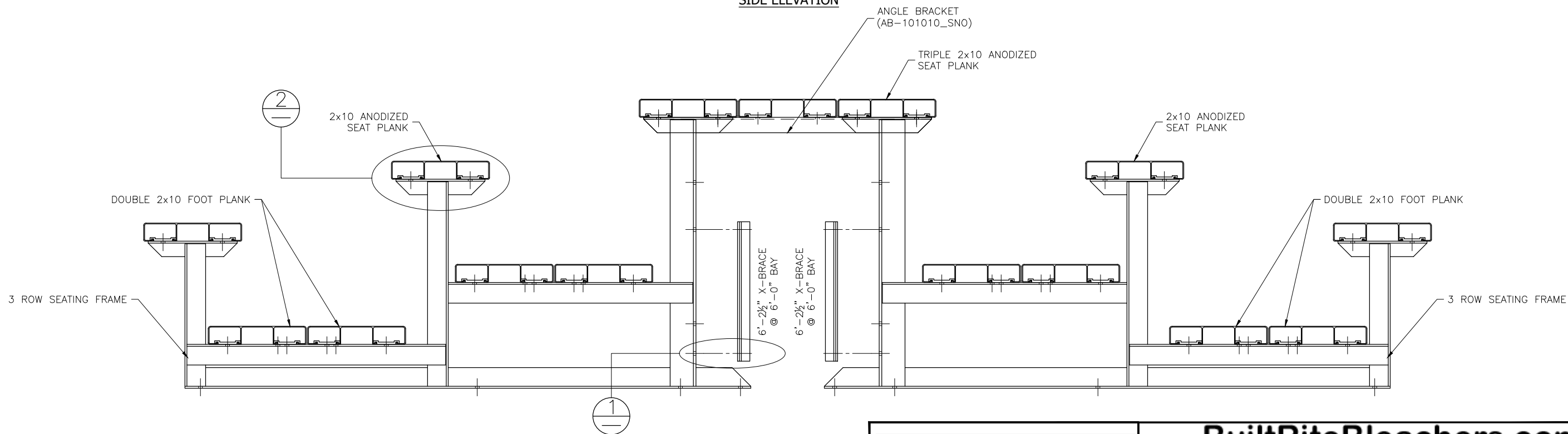
② TYP. 2x10 PLANK ATTACHMENT



ATTACH BRACING TO BLEACHER FRAMES
SEE SIDE ELEVATION FOR BRACING LENGTHS



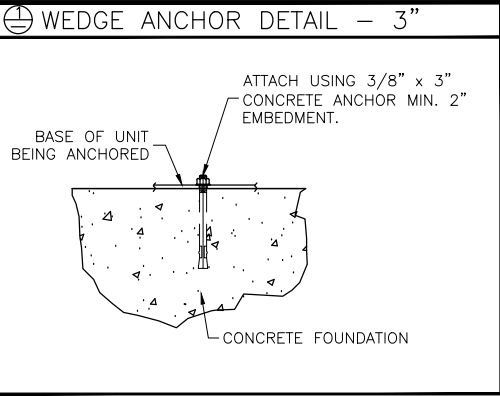
SIDE ELEVATION



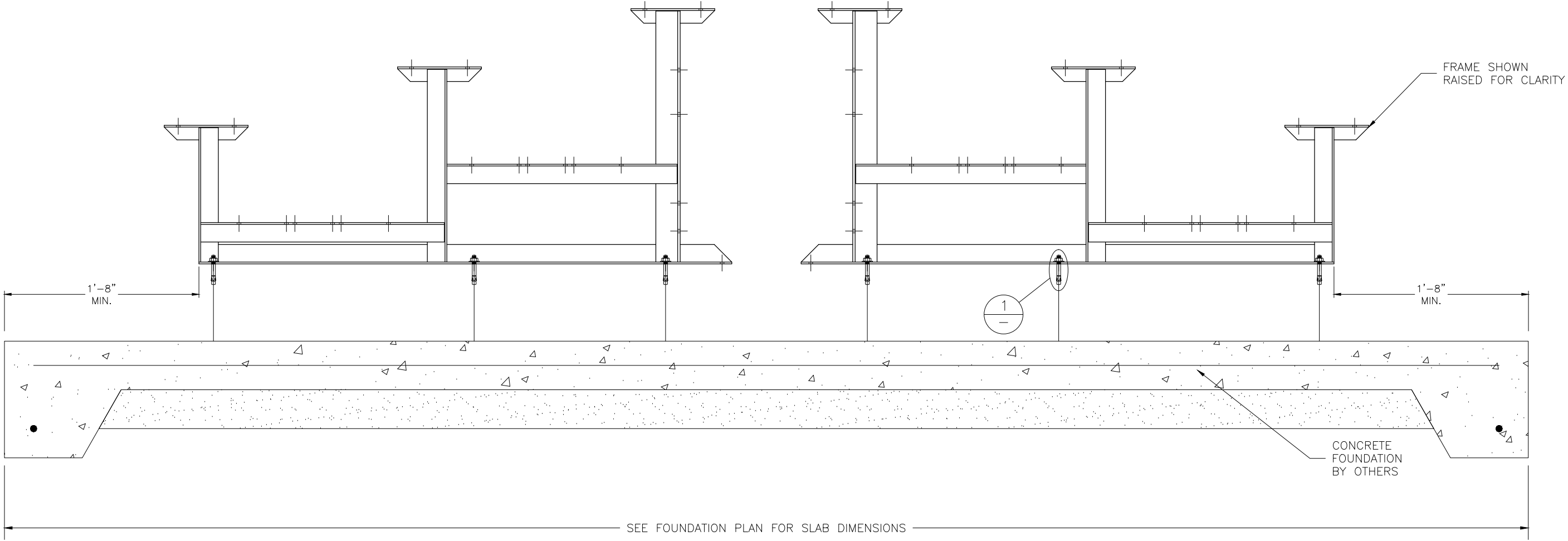
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SCALE: N.T.S.	APPROVED BY: CAK	DRAWN BY: JCM
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TITLE: 3 ROW X 15'-0" FRAMING ASSEMBLY		
BLEACHER MODEL #: NB-0315APRF_BB	DRAWING NUMBER: BA.2	



(OPTIONAL) ANCHOR BLEACHER TO CONCRETE FOUNDATION *



* CONCRETE WEDGE ANCHORS NOT INCLUDED WITH ALL UNITS. IF USING OTHER ANCHORING SYSTEM, SKIP THIS STEP AND REFER TO INSTRUCTIONS SPECIFIC TO THE ANCHORING SYSTEM PURCHASED FOR YOUR UNIT.

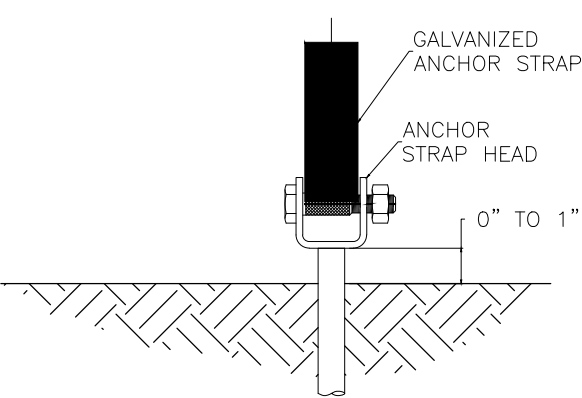


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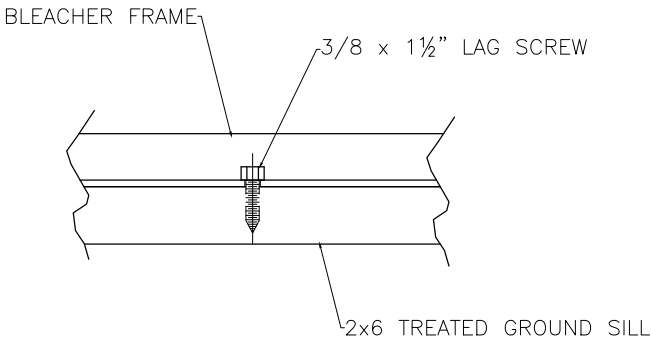
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SCALE: N.T.S.	APPROVED BY: CAK	DRAWN BY: JCM
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TITLE: 3 ROW CONCRETE ANCHORING PLAN		
BLEACHER MODEL #: NB-0315APRF_BB		DRAWING NUMBER: AP.1

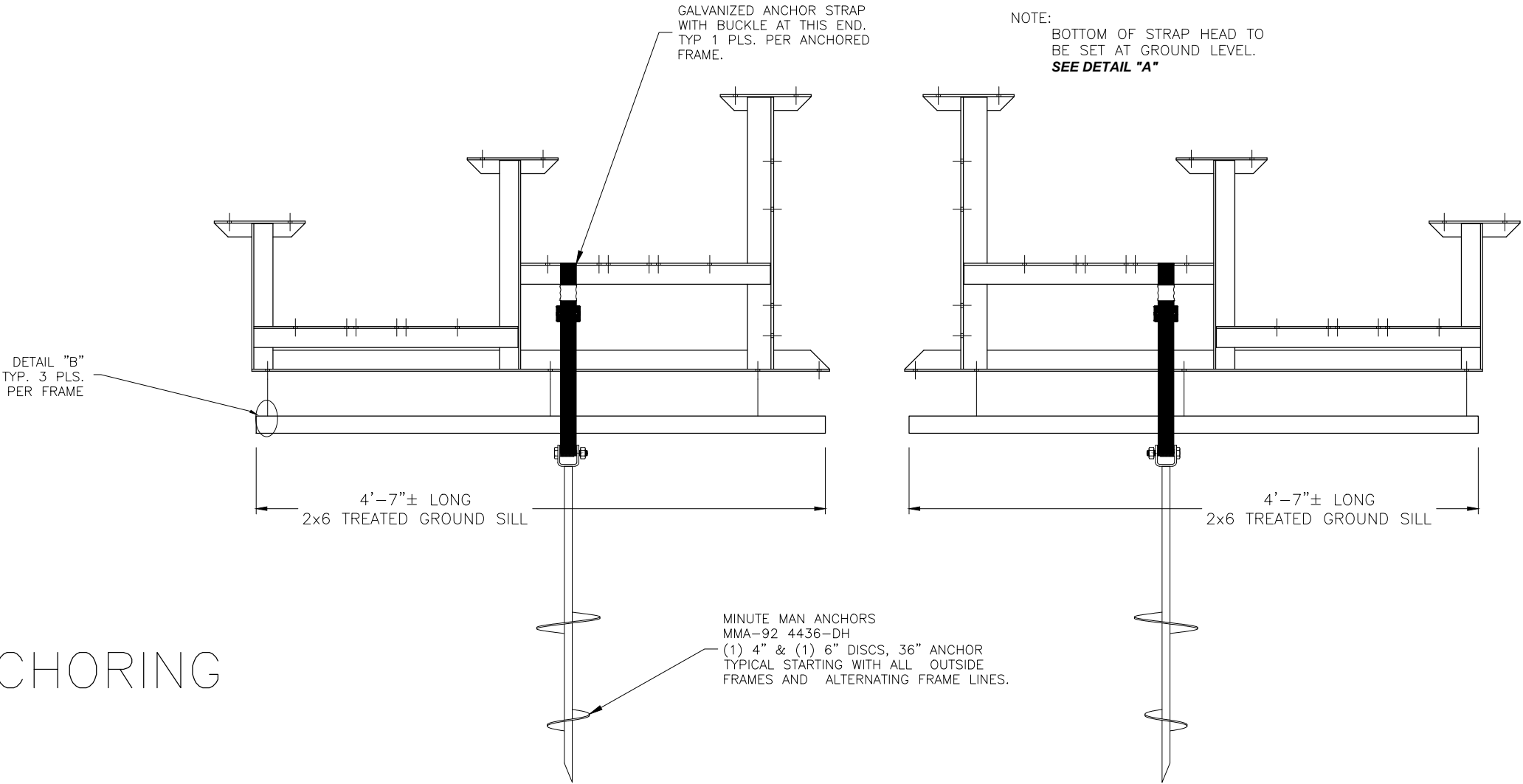
DETAIL "A" - GROUND SILL ATTACHMENT



DETAIL "B" - STRAP HEAD DETAIL



OPTIONAL AUGER ANCHORING



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