

NB-0315AADA

NON-ELEV. ALUM. 3 ROW x 15'-0" BLEACHER WITH (2) ADA

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PROJECT/SITE: NB-0315AADA

DESCRIPTION: NON-ELEV. 3 ROW x 15'-0" ASSEMBLY PRINTS

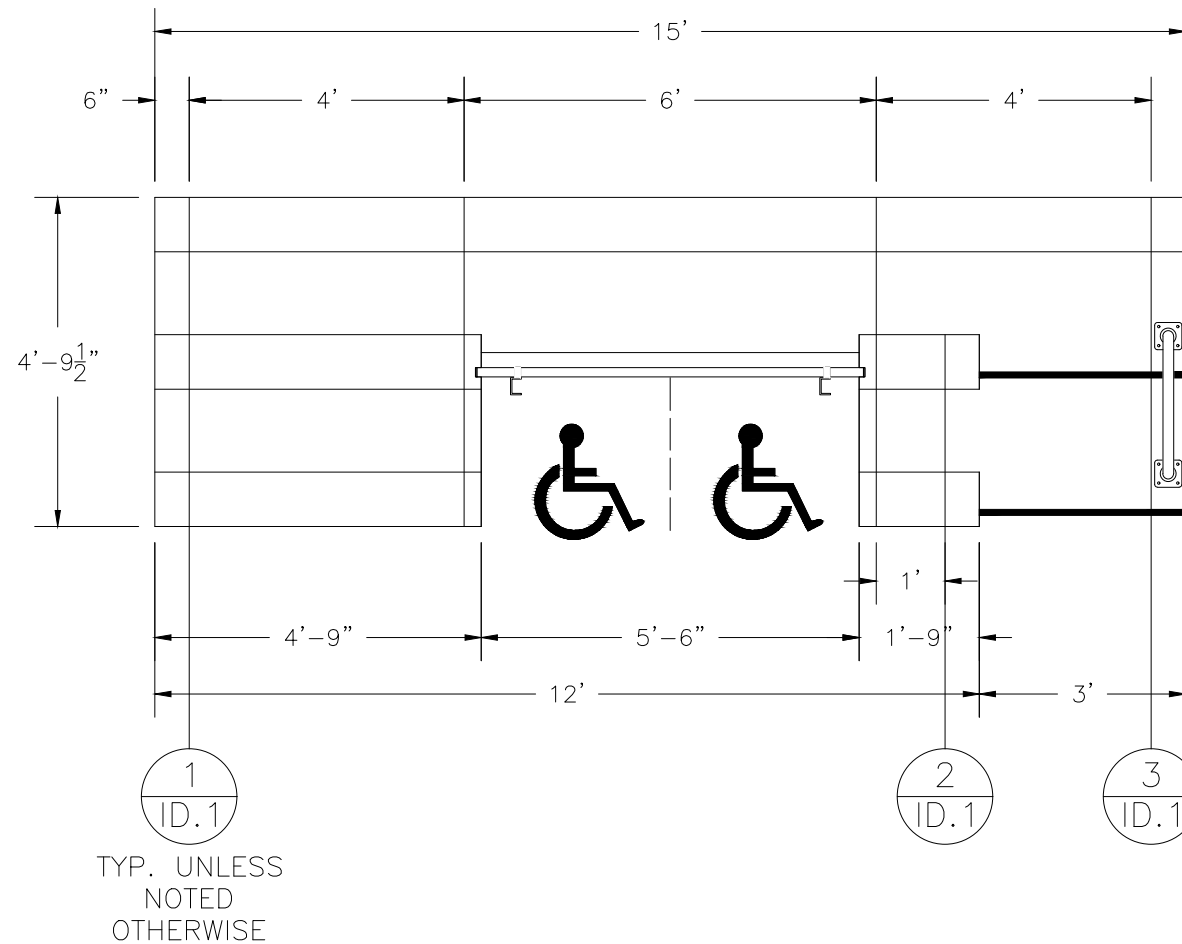
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SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
15	10.00	10.00	1	10
4.75	3.17	3.00	2	6
1.75	1.17	1.00	2	2
NET SEATS				18
WHEELCHAIR SPACES				2
TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)				20



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PROJECT/SITE: NB-0315AADA

DESCRIPTION: NON-ELEV. 3 ROW x 15'-0" SEATING PLAN

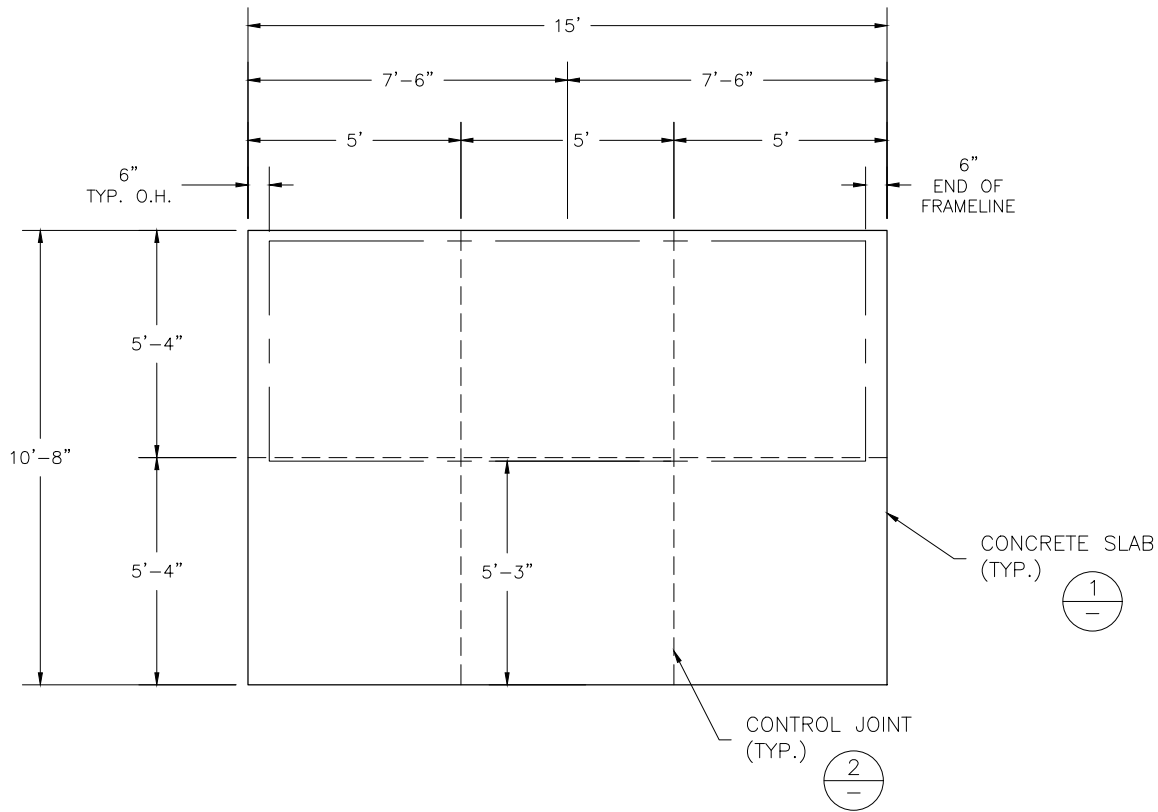
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SHEET NUMBER: TD.1



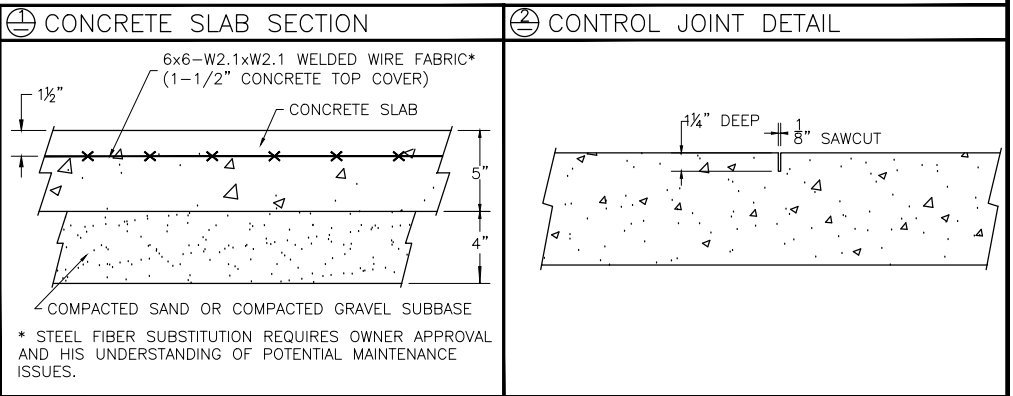
CONCRETE FOUNDATION SPECIFICATIONS

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:
1) The foundation designs are based on the following:
a) Minimum presumed soil bearing of 1000 psf.
b) Bleacher frame dead and live load of 700 lbs./ft.
c) Bleacher frame wind uplift of 250 lbs./ft.
2) 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:
1) All concrete construction shall be in accordance with *ACI 318.08*.
2) All concrete shall be air-entrained using an air entraining admixtruing meeting *ASTM C620*. Total air content: 5%-7% per *ASTM C173*.
3) All concrete shall have a minimum 28-day strength of Fc=3000psi. Concrete shall have air-entrainment
4) A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
5) 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:
1) 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.
2) 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.
3) 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.
4) 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.
5) 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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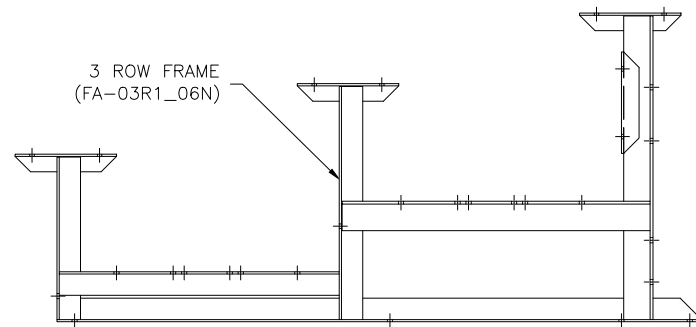
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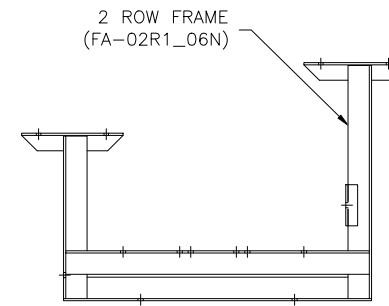
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PROJECT/SITE: NB-0315AADA				
DESCRIPTION: NON-ELEV. 3 ROW x 15'-0" FOUNDATION PLAN				
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1
ID.1

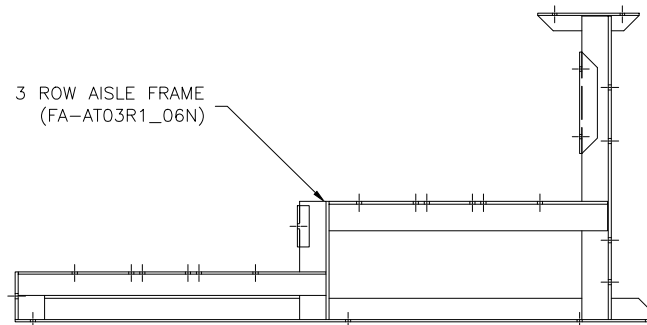


2
ID.1



3
ID.1

3 ROW AISLE FRAME
(FA-AT03R1_06N)



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PROJECT/SITE: NB-0315AADA

DESCRIPTION: NON-ELEV. 3 ROW FRAME IDENTIFICATION

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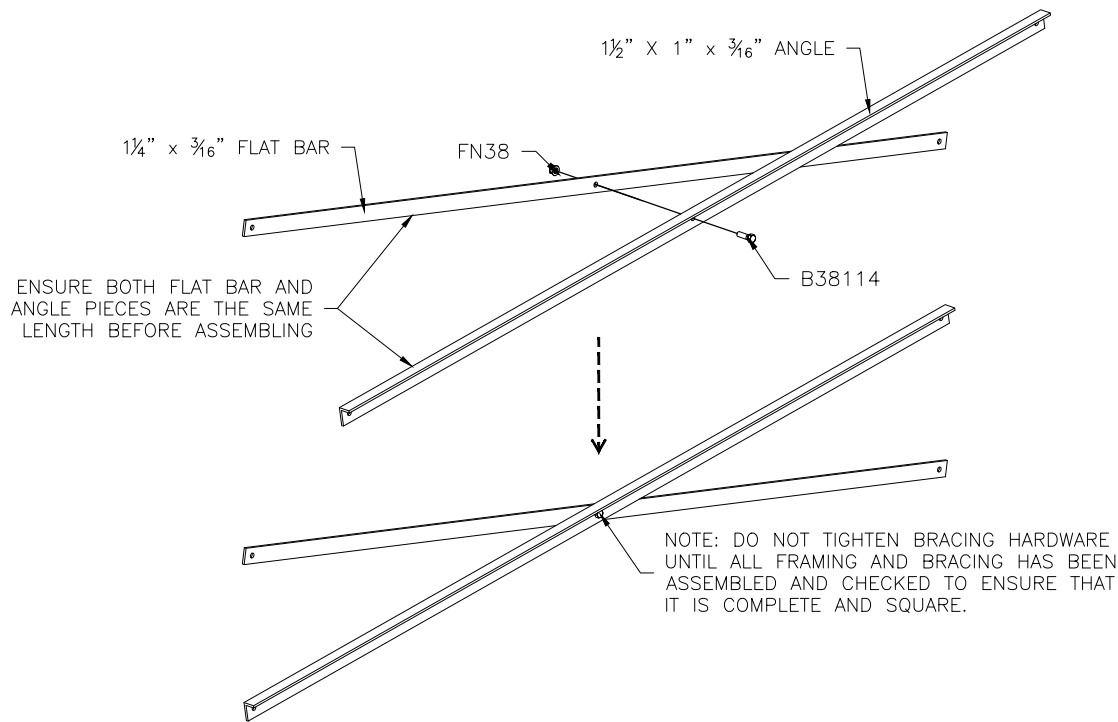
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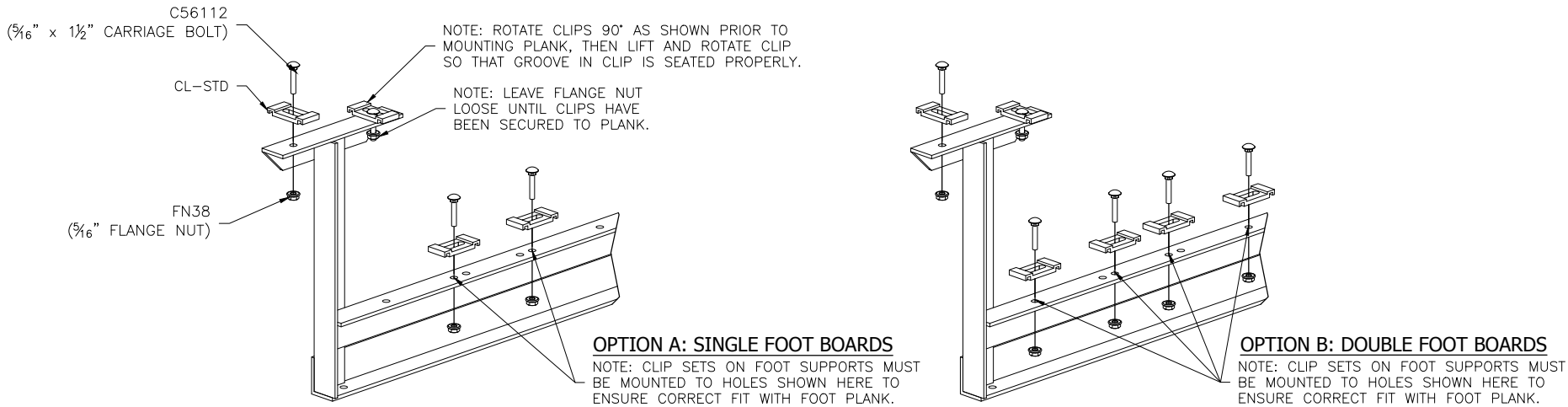
SCALE: N.T.S.

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PRE-ASSEMBLE X-BRACE PAIR(S)



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



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PROJECT/SITE: NB-0315AADA

DESCRIPTION: NON-ELEV. 3 ROW X 15'-0" BLEACHER PREP

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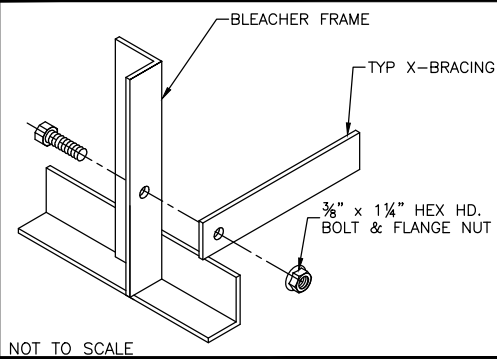
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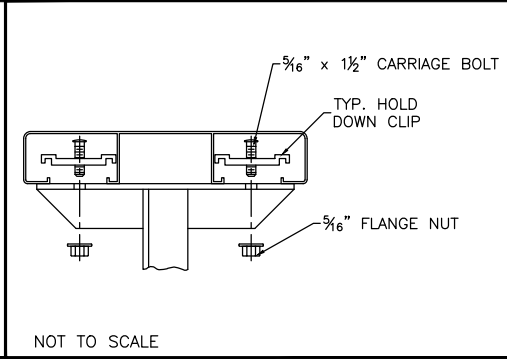
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SHEET NUMBER: BA.1

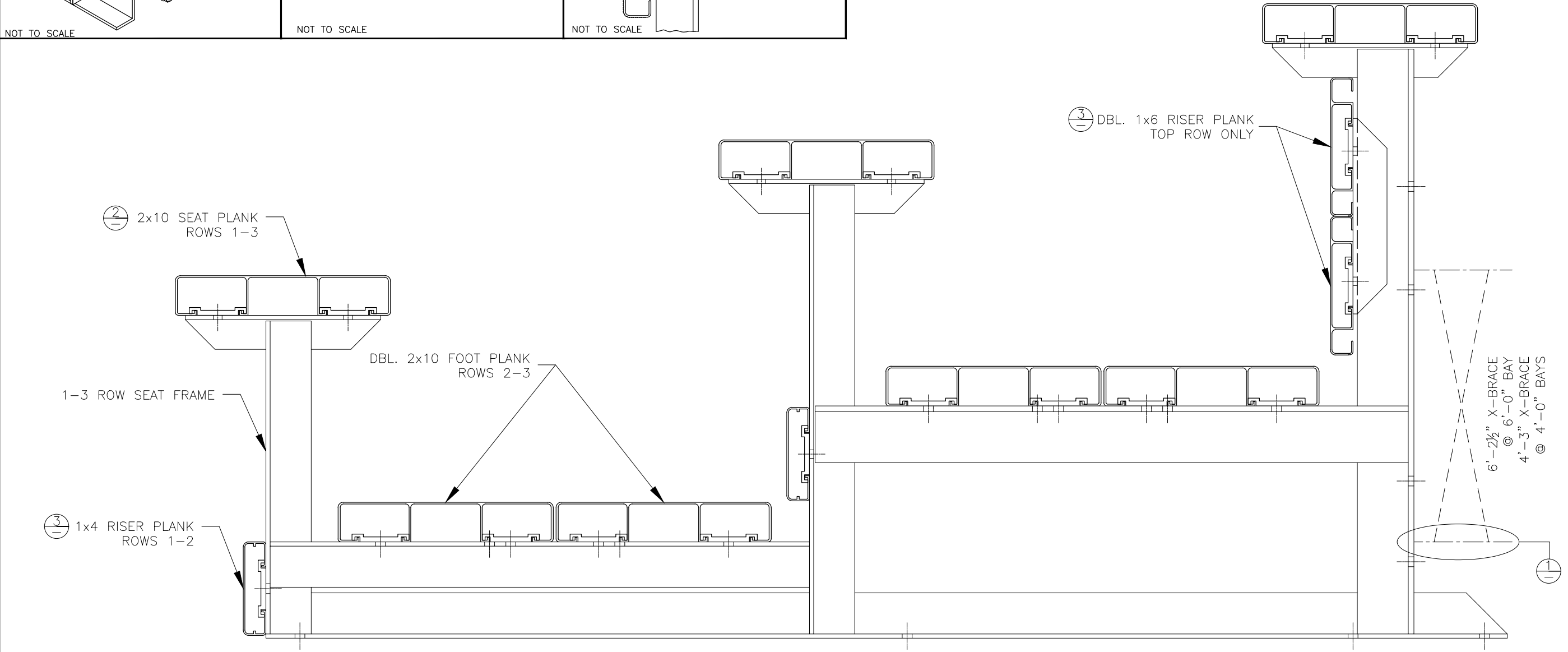
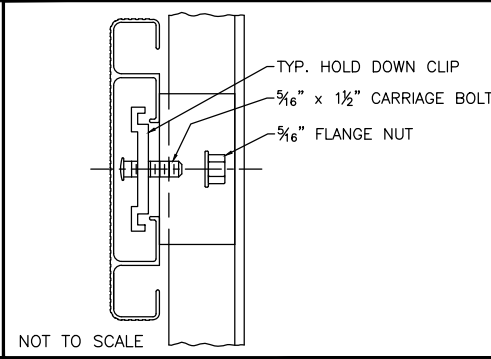
① TYP X-BRACE CONN. W/ 1 1/4" BOLT



② TYP 2x10 PLANK ATTACHMENT



③ TYP 1x6 PLANK ATTACHMENT



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PROJECT/SITE: NB-0315AADA

DESCRIPTION: NON-ELEV. 3 ROW x 15'-0" ASSEMBLY SECTION

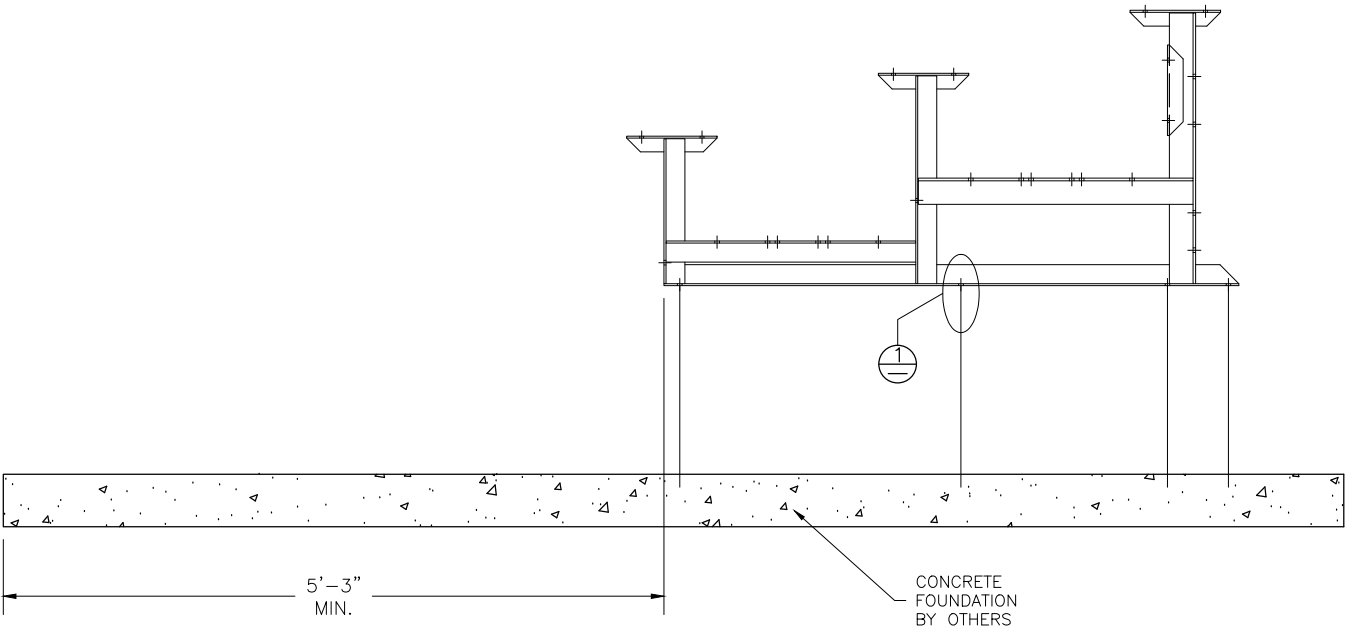
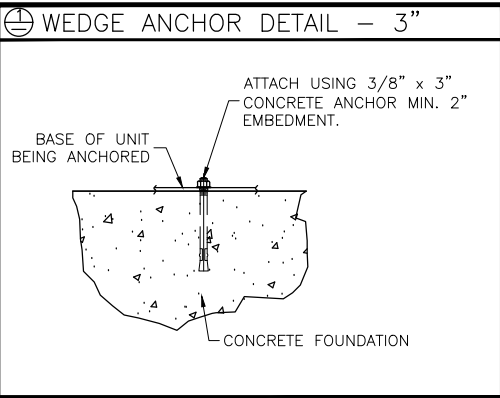
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SCALE: N.T.S.

SHEET NUMBER: BA,2





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PROJECT/SITE: NB-0315AADA				
DESCRIPTION: NON-ELEV. 3 ROW x ANCHORING PLAN				
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#8 x 1/2" STAINLESS SCREW

2x10 PLANK (UP-SIDE DOWN)

DBL. 2x10 ENDCAP

NOT TO SCALE

#8 x 1/2" STAINLESS SCREW

(2) 1x6 PLANK
(UP-SIDE DOWN)

DBL. 1x6 ENDCAP

NOT TO SCALE

#8 x 1/2" STAINLESS SCREW

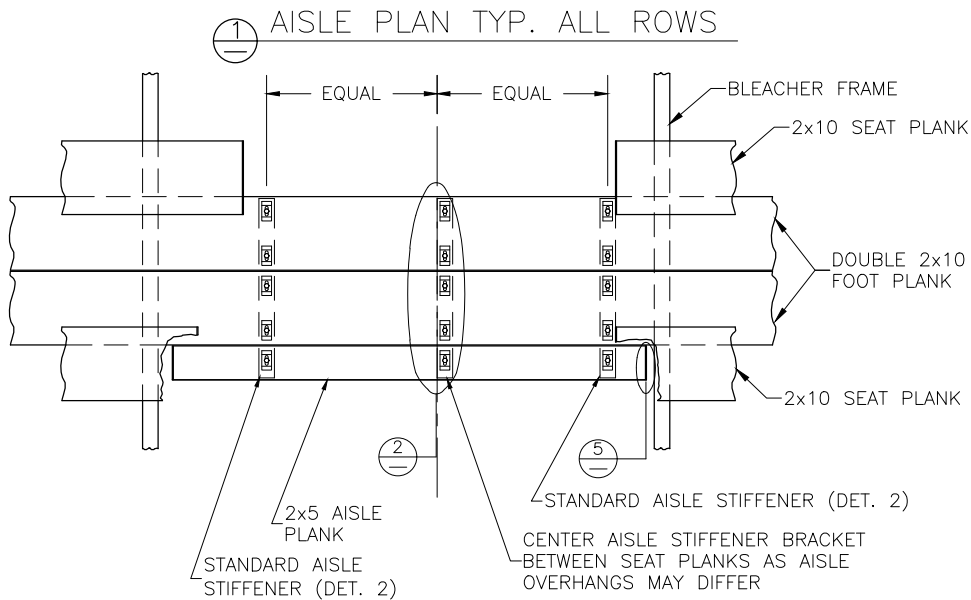
1x6 PLANK (UP-SIDE DOWN)

1x6 END CAP

NOT TO SCALE

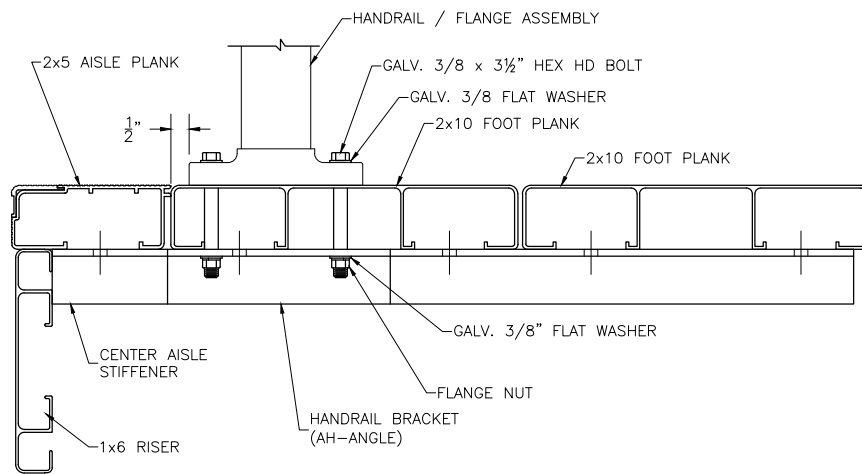


SHEET NUMBER: PF.1



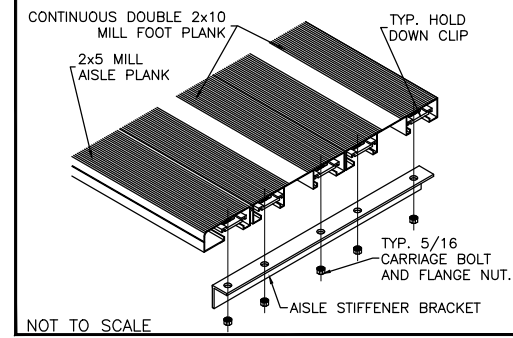
DETAIL A

FRONT HANDRAIL ASSEMBLY SHOWN
LOCATE OVER REAR FOOT PLANK FOR REAR ASSEMBLY

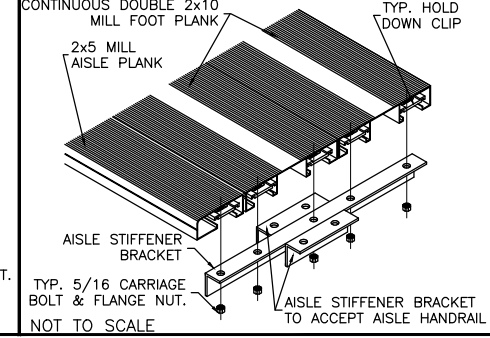


ALIGN EDGE OF FLANGE APPROX. 1/2" FROM THE LEADING EDGE OF THE FRONT MOST CONTINUOUS 2x10 FOOT PLANK (NOT THE 2x5 AISLE STEP PLANK). SLIGHTLY ADJUST FLANGE LOCATION, IF NECESSARY, SO THAT THE BOLT HOLE IS NOT DRILLED INTO A VERTICAL LEG OF THE PLANK. DRILL $\phi 7/16$ " HOLES (FOR 3/8" BOLT). ASSEMBLE AS SHOWN USING GALV. STEEL BOLTS, FLAT WASHERS & FLANGE NUTS.

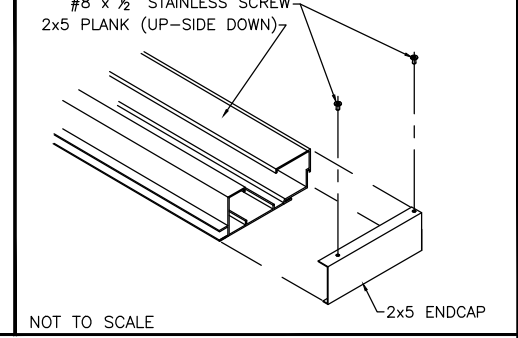
② TYP. AISLE BKT DETAIL



③ FRONT AISLE H.R. BRACKET DETAIL

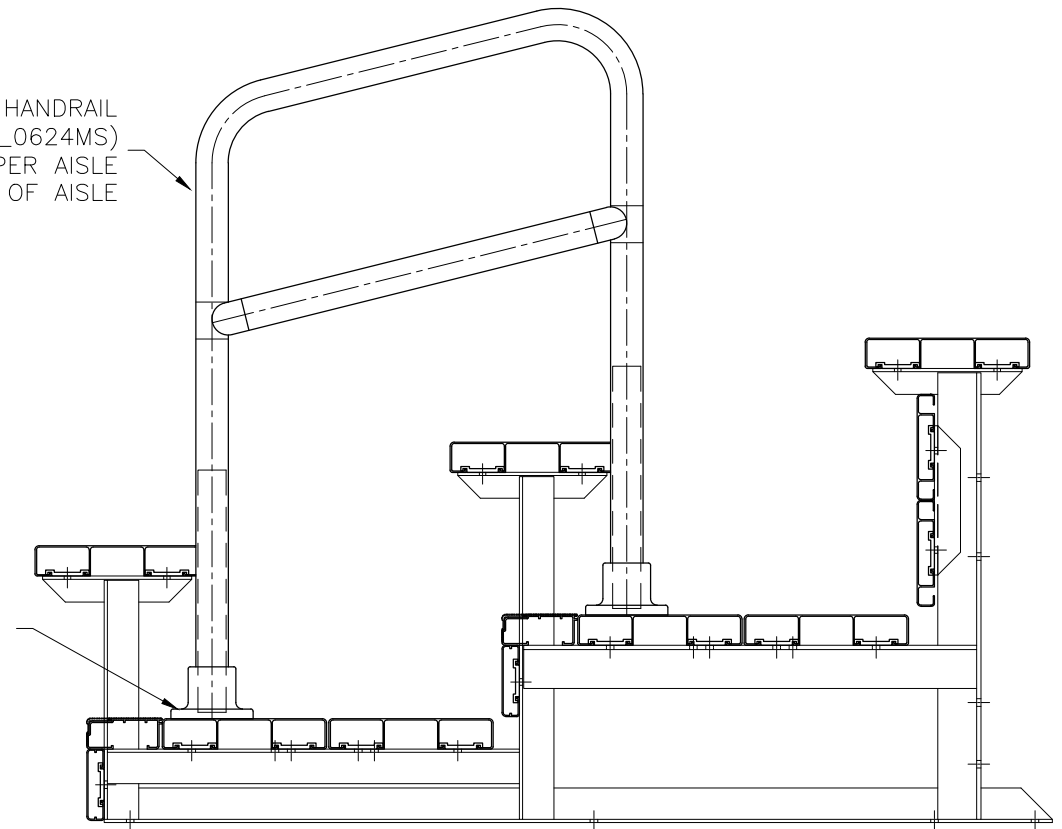


④ TYP 2x5 ENDCAP ATTACHMENT



2 ROW AISLE HANDRAIL
(AH-2STEP_0624MS)
TYP. 1 PER AISLE
END OF AISLE

ATTACH HANDRAIL WITH
(4) $\frac{3}{8}$ x3 HEX HEAD BOLT
& FLANGE NUTS WITH
(2) AH-ANGLES



NRS
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PROJECT/SITE: NB-0315AADA

DESCRIPTION: 3 ROW VERTICAL AISLE ASSEMBLY

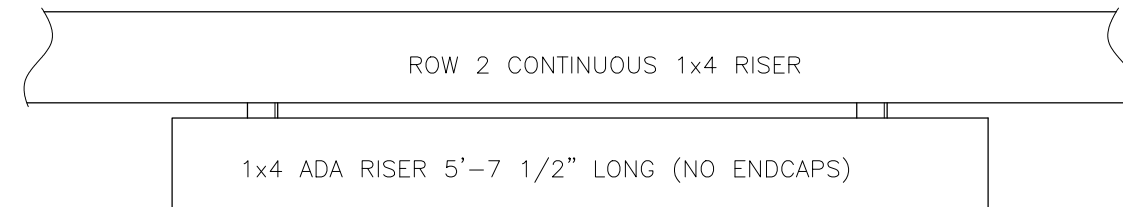
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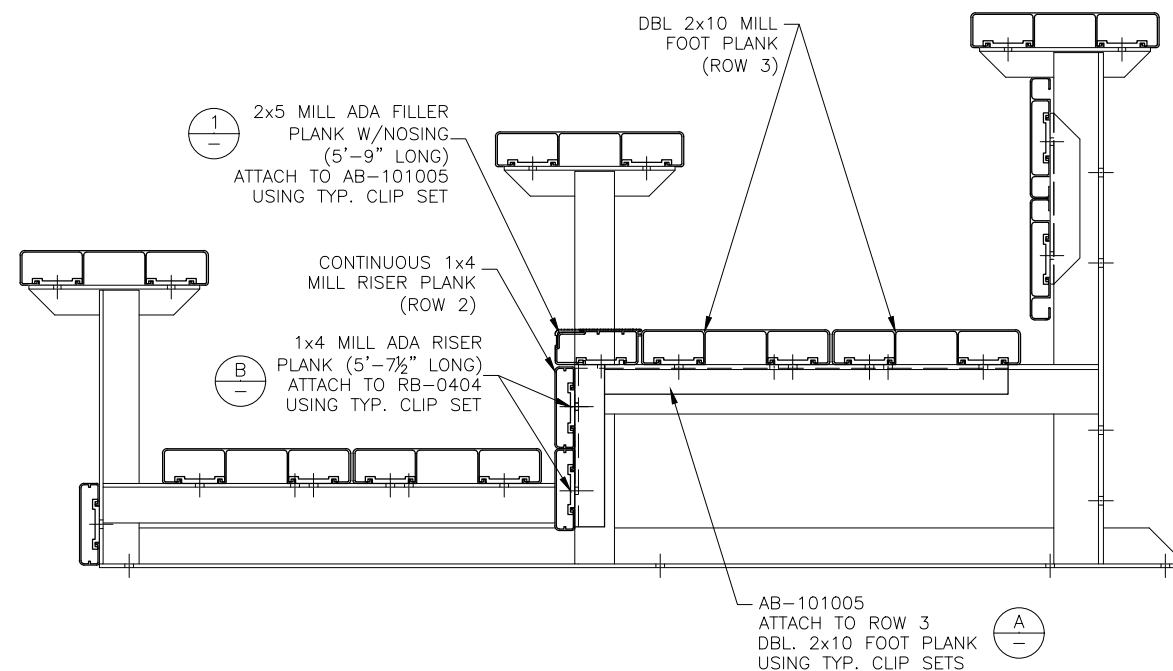
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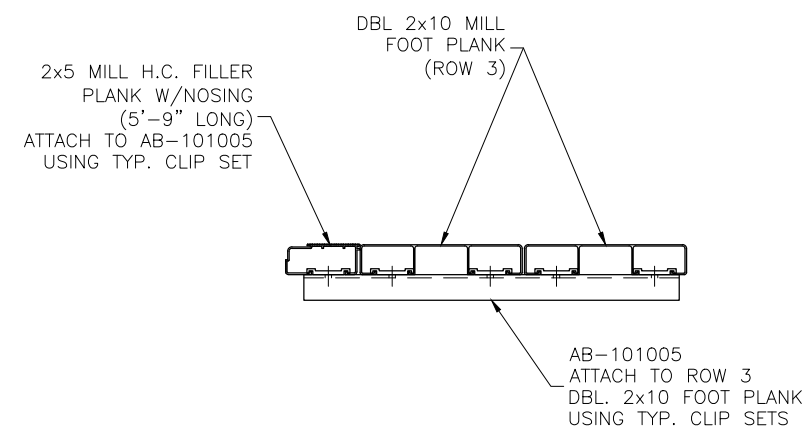
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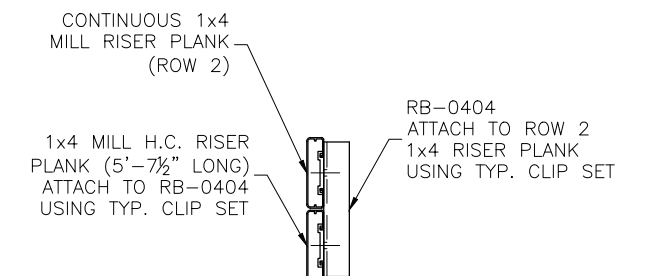
FRONT VIEW



DETAIL A
AB-101005
ATTACHMENT



DETAIL B
RB-0404
ATTACHMENT



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PROJECT/SITE: NB-0315AADA

DESCRIPTION: WHEELCHAIR INSERT ASSEMBLY

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REVISION:

SCALE: N.T.S.

SHEET NUMBER: WC.1