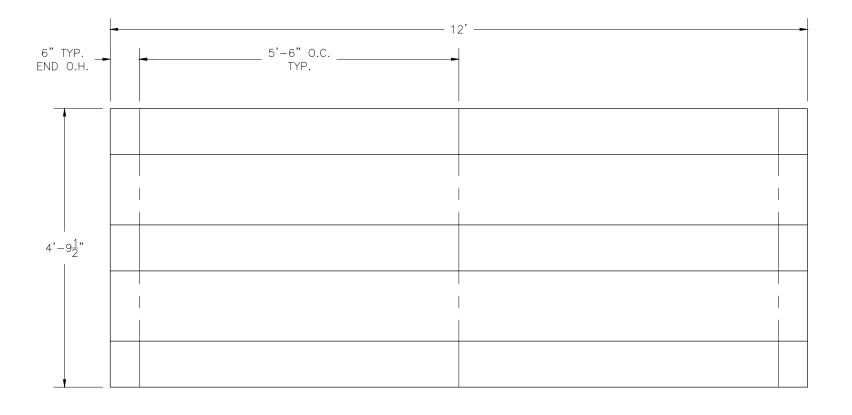
NB-0312APRF NON ELEVATED ALUMINUM 3 ROW x 12'-0" BLEACHER National Recreation Systems, Inc. 1300-D NORTH AIRPORT OFFICE PARK FORT WAYNE, IN 46825 - COVER SHEET - BLEACHER SEATING PLAN - FOUNDATION PLAN - ANCHORING PLAN AP.2 BA.1 PF.1

- ANCHORING PLAN - BLEACHER ASSEMBLY - PLANK & FRAMING PLAN



SECTION GROSS ACTUAL NO. OF NET LENGTH SEATS SEATS ROWS SEATS 8.00 8.00 3 **NET SEATS** 24 WHEELCHAIR SPACES TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)

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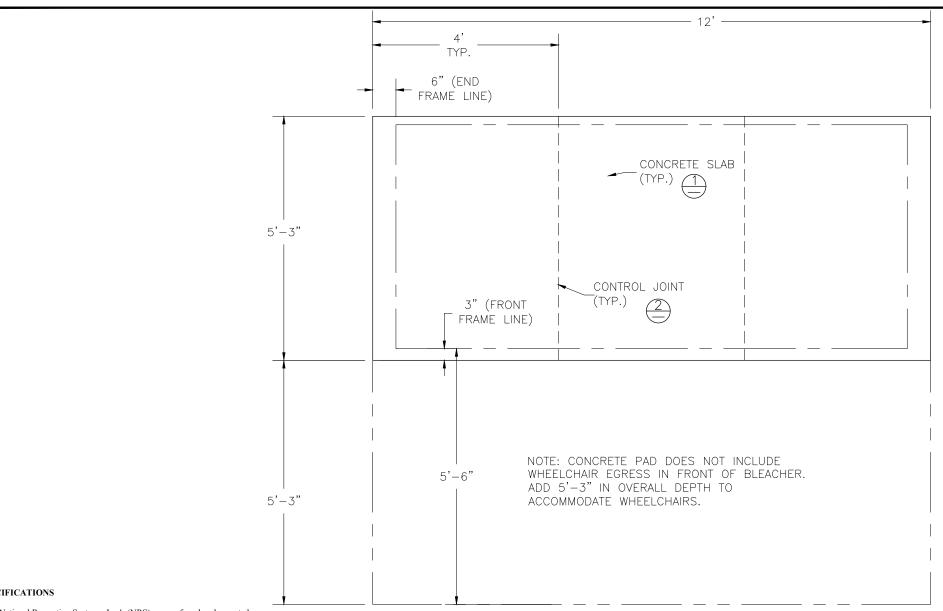
National Recreation Systems, Inc.

1300-D NORTH AIRPORT OFFICE PARK FORT WAYNE, IN 46825

SCALE: N.T.S. APPROVED BY: CHUCK 5/27/2016 DATE: 4/21/15

NON ELEV ALUM 3 ROW x 12'-0" BLEACHER SEATING PLAN BLEACHER MODEL #:

NB-0312APRF



CONCRETE FOUNDATION SPECIFICATIONS

SCOPE:

Foundation construction is not part of National Recreation Systems, Inc.'s (NRS) scope of work unless noted otherwise in the contract documents. The owner shall review the foundation design with the local code authorities, and coordinate with NRS.

FOUNDATION DESIGN & ANCHORS:

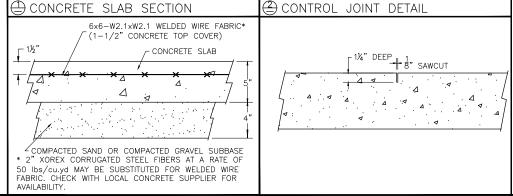
- 1) The foundation designs are based on the following:
- a. Minimum presumed soil bearing 1000 psf.
- b. Bleacher frame dead and live load 700 lbs./ft.c. Bleacher frame wind uplift load 250 lbs./ft.
- 2) Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia. x3" wedge type expansion anchors. 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 have a minimum 28-day strength of Fc=3000 psi.
- 3) A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
- 4) The depressions in the top of the foundations between high spots shall not exceed 5/16" below a 10-foot long straightedge. The 10-foot straightedge method used to measure foundation flatness shall be in accordance with Section of ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction".

CONCRETE SLAB SPECIFICATIONS:

- 1) Concrete slab shall have a minimum thickness of 5" (NRS, Inc. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- 2) NRS, Inc. recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric at 1½" concrete cover from the top. In lieu of welded wire fabric, 2" XOREX by Ribbon Technology Corporation or equal corrugated steel fibers applied at a rate of 50-lbs./Cubic Yard may be used. Nylon or polypropylene fiber are not recommended.
- 3) Crack control joints shall be sawed into slab to form approximate square patterns. The maximum spacing for control joints shall not exceed 12'-6", unless shown otherwise on this drawing. 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.
- 4) 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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National Recreation Systems, Inc. 1300-D NORTH AIRPORT OFFICE PARK FORT WAYNE, IN 46825

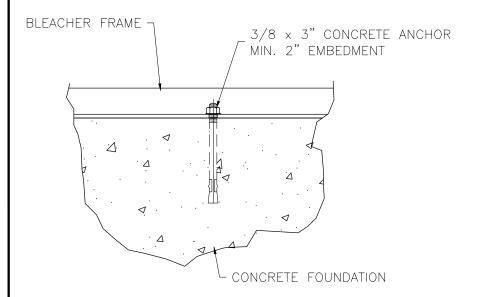
SCALE: N.T.S. APPROVED BY: DRAWN BY: JML

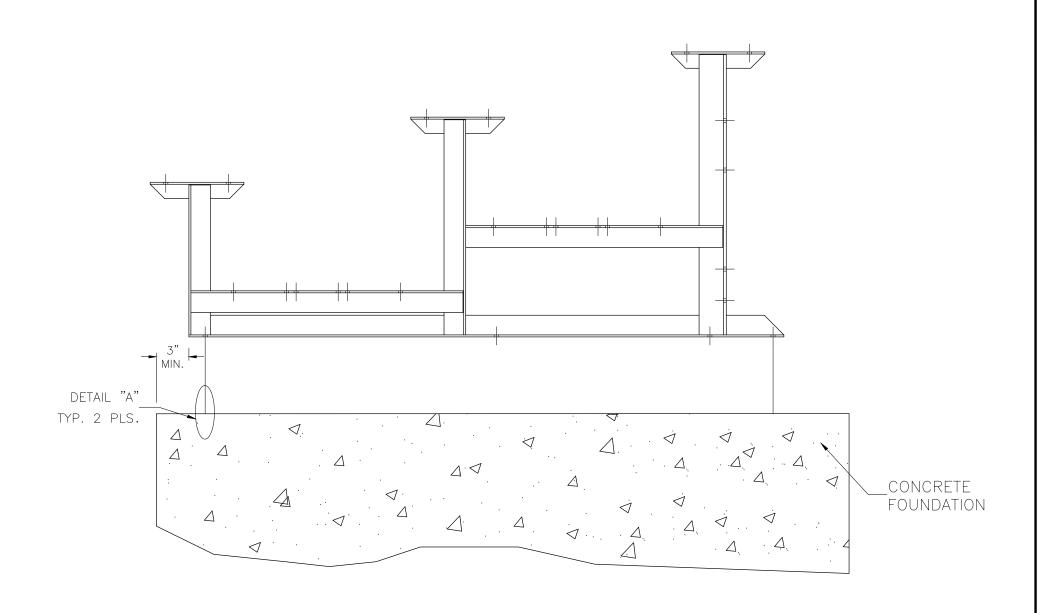
DATE: 4/21/15 CHUCK 5/27/2016 JML

TITLE: FOUNDATION PLAN

BLEACHER MODEL #: NB-0312APRF DRAWING NUMBER: FP.1

DETAIL "A" - CONCRETE ANCHOR ATTACHMENT

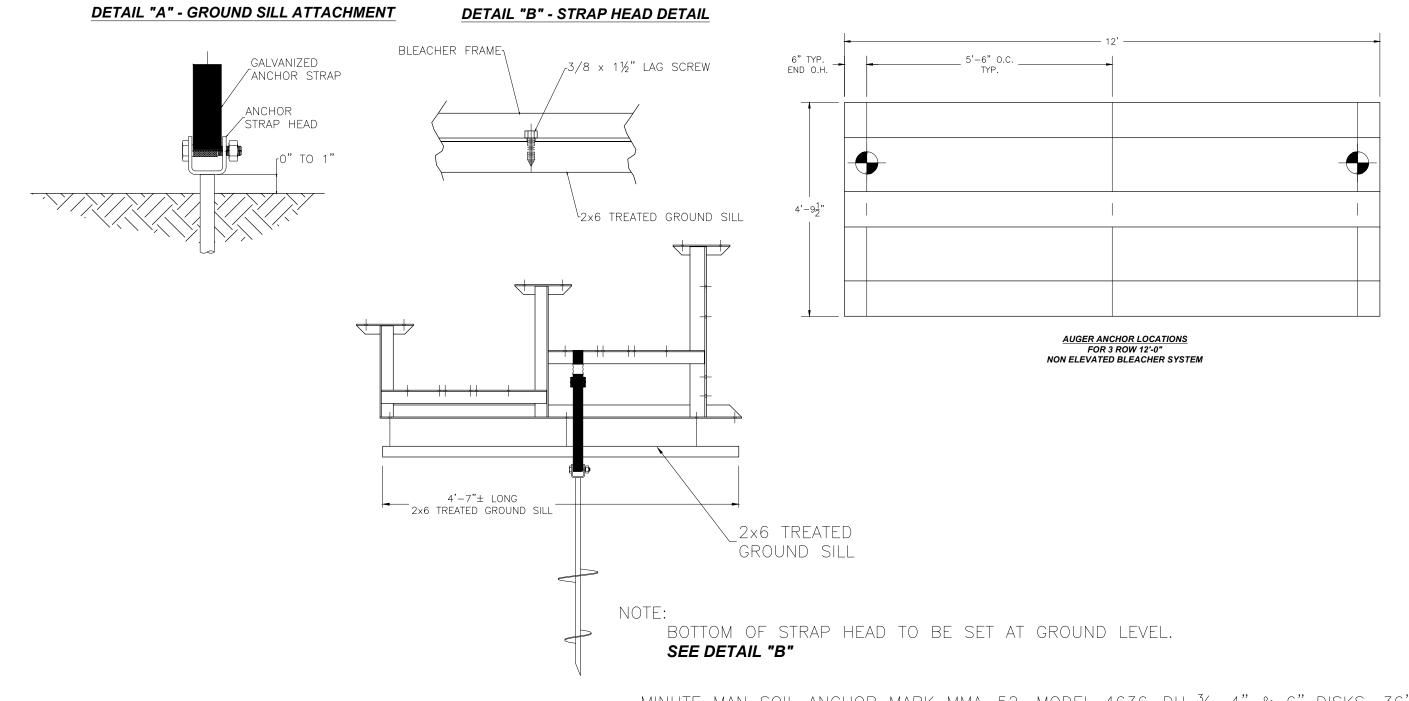




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National Recreation Systems, Inc. 1300-D NORTH AIRPORT OFFICE PARK FORT WAYNE, IN 46825

SCALE: N.T.S. DATE: 4/21/15	APPROVED BY: CHUCK 5/27/2016	DRAWN BY: JML					
TITLE:	e: ANCHORING PLAN						
BLEACHER MODEL #: NB-C)312APRF	DRAWING NUMBER:					



MINUTE MAN SOIL ANCHOR MARK MMA-52, MODEL 4636-DH ¾, 4" & 6" DISKS, 36" LENGTH TYPICAL ATTACHED TO BLEACHER FRAMES BY MINUTE MAN BUCKLE STRAP AND ATTACHED FROM STRAP TO ANCHOR HEAD BY MINUTE MAN STRAP BOLT. ANCHORS SHALL BE FIELD INSTALLED AS PER DRAWINGS STARTING WITH ALL OUTSIDE FRAMES AND ALTERNATE FRAME LINES. THE ANCHOR IS DESIGNED FOR SOILS OF "LOOSE TO MEDIUM DENSE SANDS; FIRM TO STIFF CLAYS AND SILTS; ALLUVIAL FILLS" WITH A BLOW COUNT (ASTMD1586) OF 18-23.

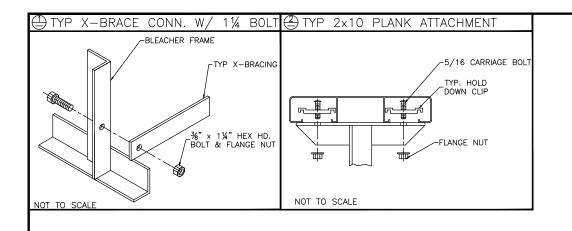
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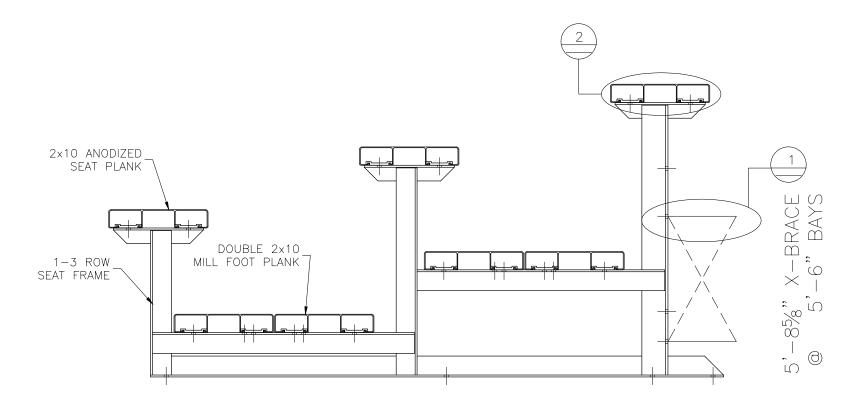
National Recreation Systems, Inc. 1300-D NORTH AIRPORT OFFICE PARK FORT WAYNE, IN 46825

SCALE: N.T.S. APPROVED BY: CHUCK 5/27/2016 JML

TITLE: ANCHORING PLAN

BLEACHER MODEL #: NB-0312APRF DRAWING NUMBER: AP.2

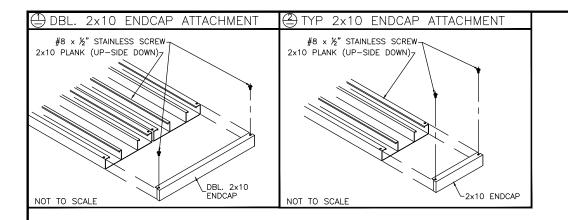


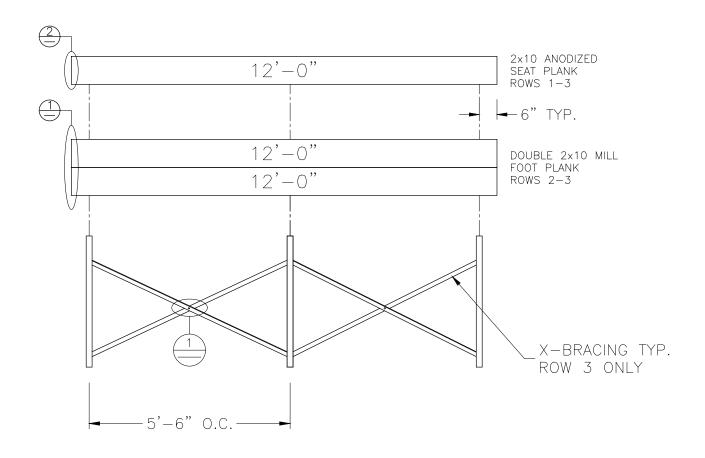


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BLEACHER MODEL #:	NB-0312APRF	DRAWING NUMBER:				
TITLE: BL FACHER ASSEMBLY						
SCALE: N.T.S. DATE: 4/21/15	APPROVED BY: CHUCK 5/27/2016	DRAWN BY: JML				





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SCALE: N.T.S.	APPROVED BY:		DRAWN BY				
DATE: 4/21/15	CHUCK 5/27/	2016		JML			
PLANK & FRAMING PLAN							
BLEACHER MODEL #:	3-0312APRF		DRAWING N	IUMBER:	PF.1		