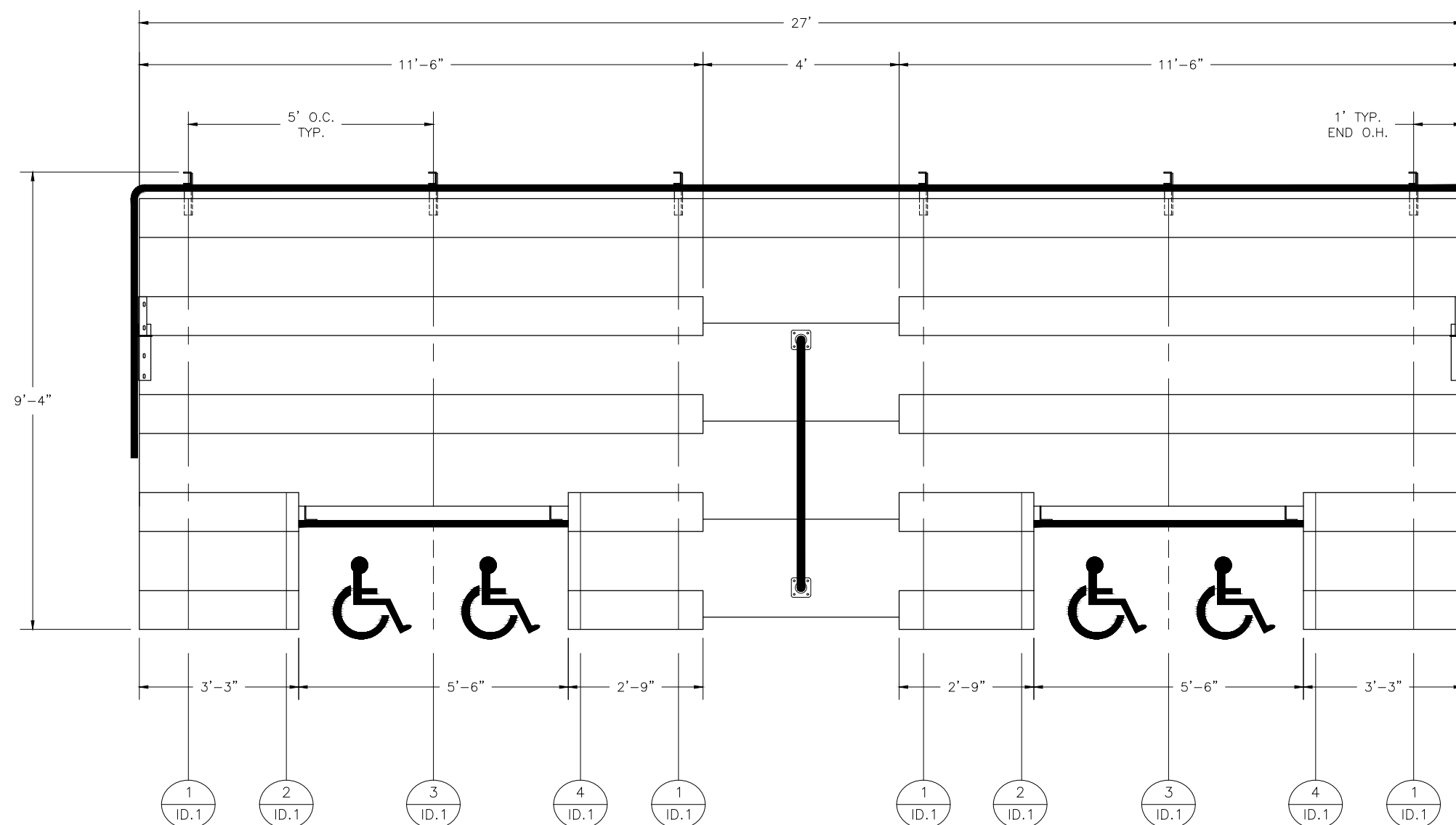


NA-0527ADA_VP

NON ELEVATED 5 ROW x 27'-0" BLEACHER

BuiltRiteBleachers.com
5077 Northampton Drive, Fort Myers, FL 33919

CS.1	– COVER SHEET
BS.1	– BLEACHER SEATING PLAN
ID.1	– FRAME I.D.
FP.1	– FOUNDATION PLAN
AP.1	– ANCHORING PLAN
BA.1	– BLEACHER ASSEMBLY
PF.1	– PLANK & FRAMING PLAN
VA.1	– VERTICAL AISLE ASSEMBLY
WC.1	– WHEELCHAIR ACCESS INSERT
GR.1	– GUARDRAIL ASSEMBLY
DS.1	– DETAIL SHEET



SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
27	18.00	18.00	1	18
11.5	7.67	7.00	2	14
3.25	2.17	2.00	2	4
2.75	1.83	1.00	2	2
11.5	7.67	7.00	2	14
2.75	1.83	1.00	2	2
3.25	2.17	2.00	2	4
NET SEATS				58
WHEELCHAIR SPACES				4
TOTAL NET SEATING CAPACITY (BASED ON 18" PER SEAT)				62

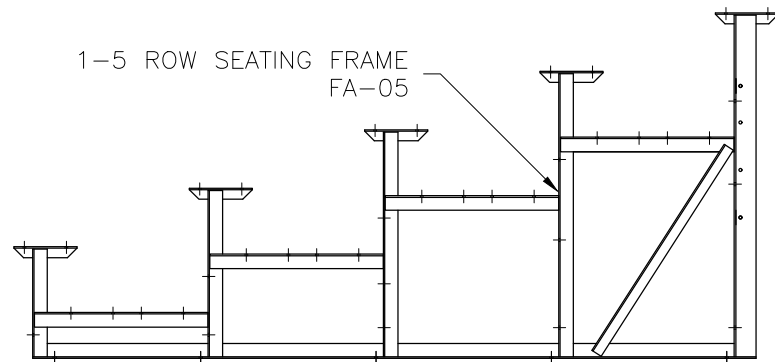


BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

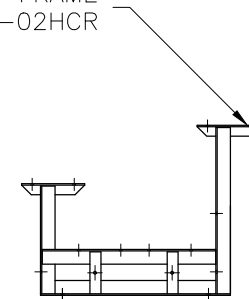
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE:	NON ELEV. ALUM. 5 ROW x 27'-0"	
BLEACHER MODEL #:	NA-0527ADA_VP	DRAWING NUMBER: TD.1

1
ID.1



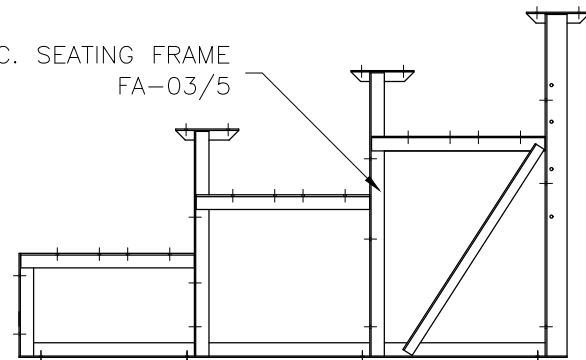
2
ID.1

1-5 ROW RIGHT H.C. SEATING FRAME
FA-02HCR



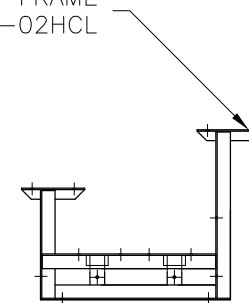
3
ID.1

3-5 ROW CENTER H.C. SEATING FRAME
FA-03/5



4
ID.1

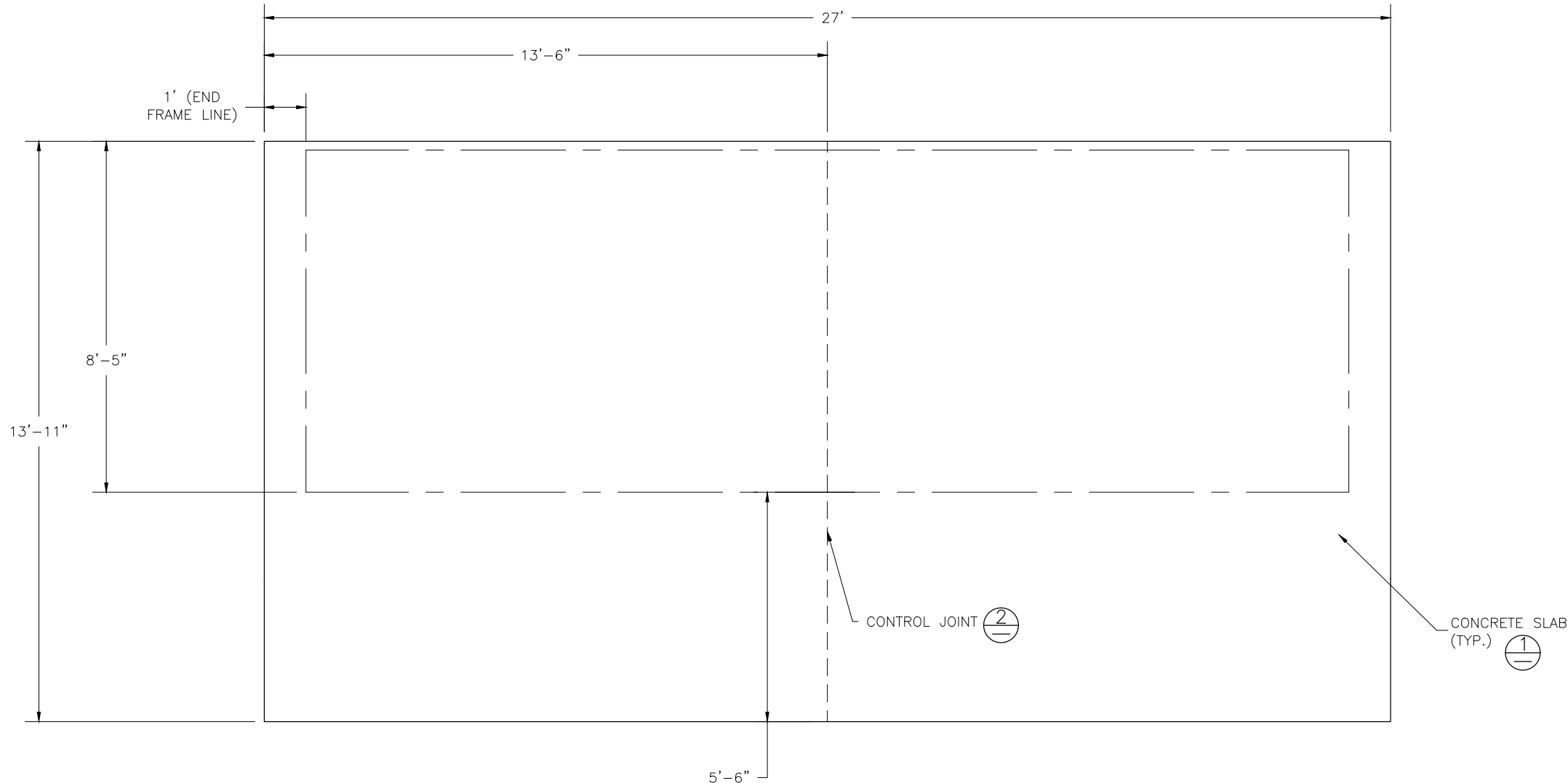
1-5 ROW LEFT H.C. SEATING FRAME
FA-02HCL



BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: FRAME I.D.		
BLEACHER MODEL #: NA-0527ADA_VP	DRAWING NUMBER: ID.2	



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:

- The foundation designs are based on the following:
 - Minimum presumed soil bearing 1000 psf.
 - Bleacher frame dead and live load 700 lbs./ft.
 - Bleacher frame wind uplift load 250 lbs./ft.
- Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia. x 3" wedge type expansion anchors. The anchors shall be embedded a minimum of 1 3/4" into the concrete.

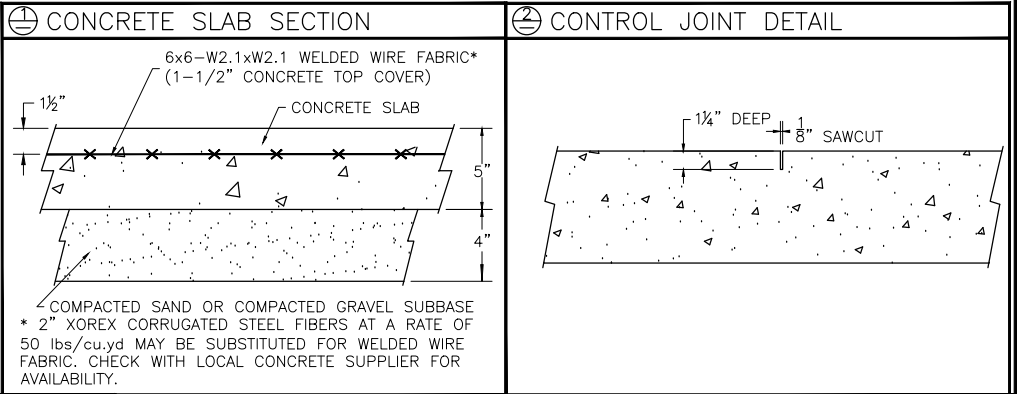
CONCRETE SPECIFICATIONS:

- All concrete construction shall be in accordance with *ACI 318-08*.
- All concrete shall have a minimum 28-day strength of $F_c=3000$ psi.
- 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 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:

- 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.
- 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, 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.
- 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.
- 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".

NOTE: CONCRETE PAD DOES NOT INCLUDE WHEELCHAIR EGRESS IN FRONT OF BLEACHER. ADD 5'-6" IN OVERALL DEPTH TO ACCOMMODATE WHEELCHAIRS.

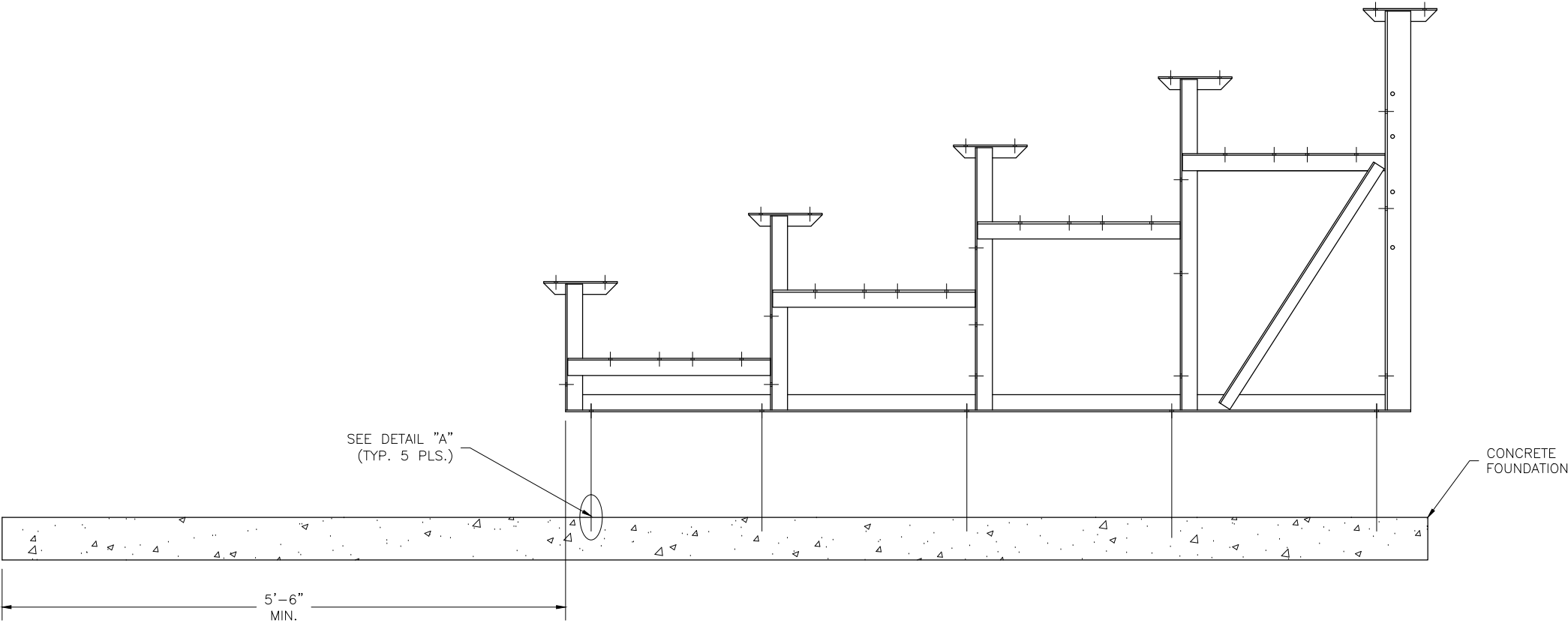
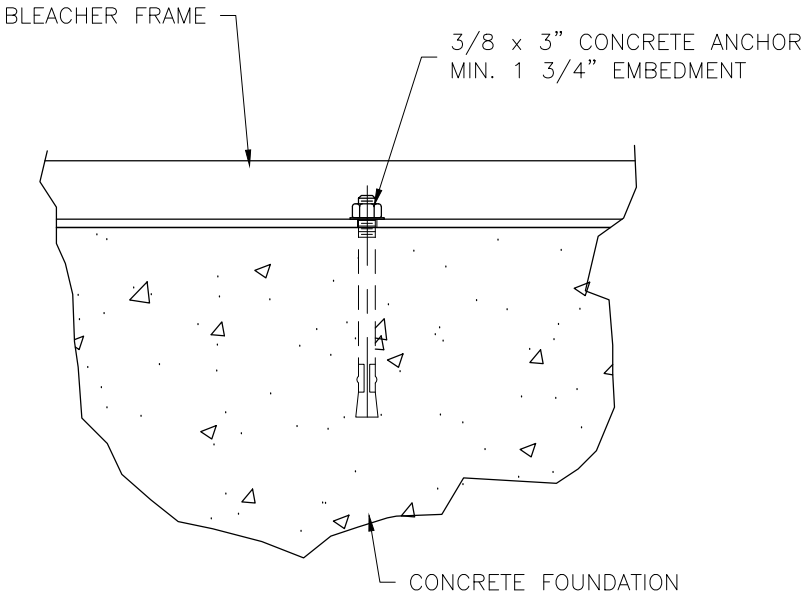


BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: NON ELEV. ALUM. 5 ROW x 27'-0"		
BLEACHER MODEL #: NA-0527ADA_VP	DRAWING NUMBER: FP.1	

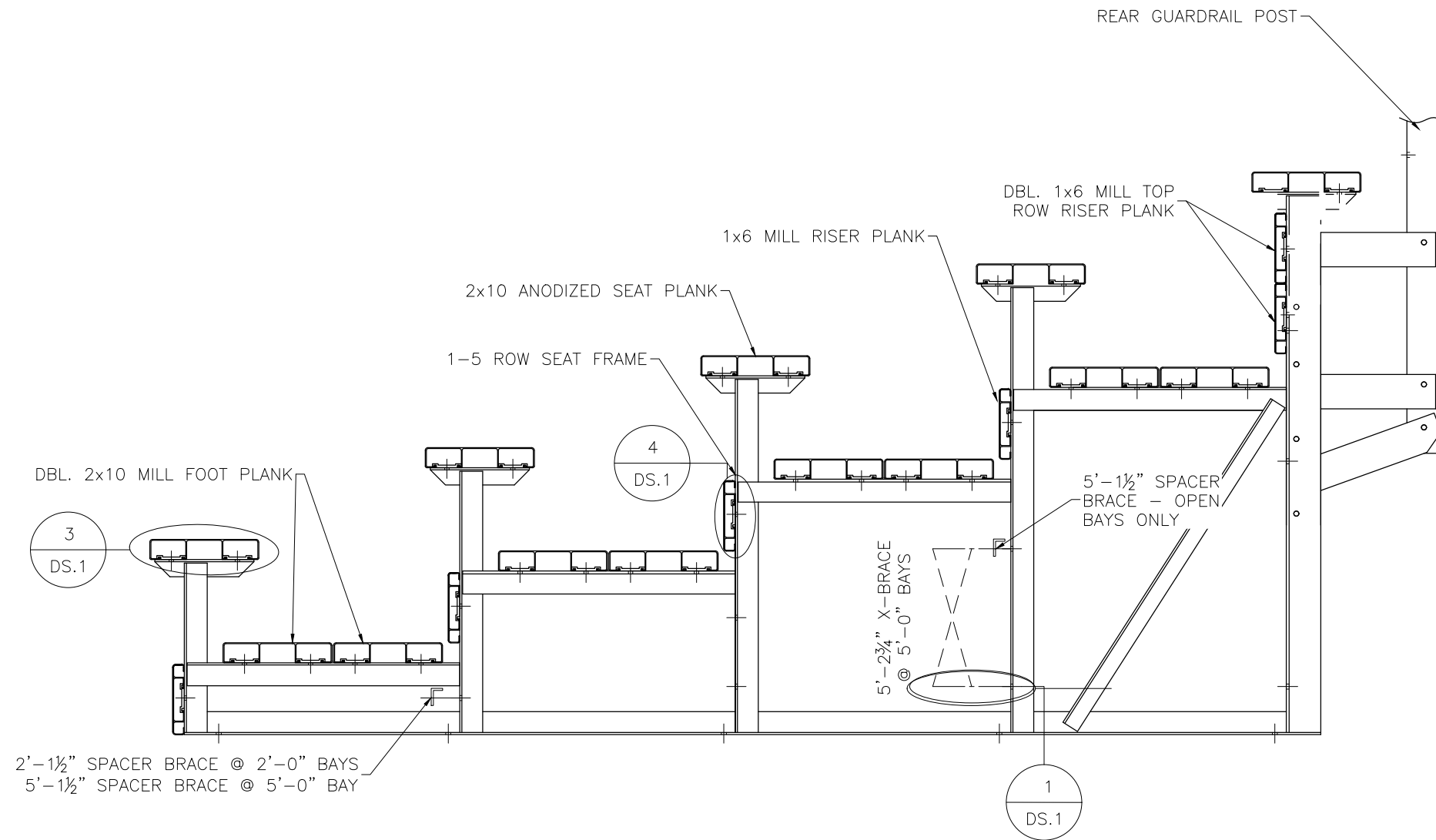
DETAIL "A" - CONC. ANCHOR ATTACHMENT



BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: ANCHORING PLAN		
BLEACHER MODEL #: NA-0527ADA_VP	DRAWING NUMBER: AP.1	



**SEE PRINT # DS.1
FOR REFERENCED DETAILS**

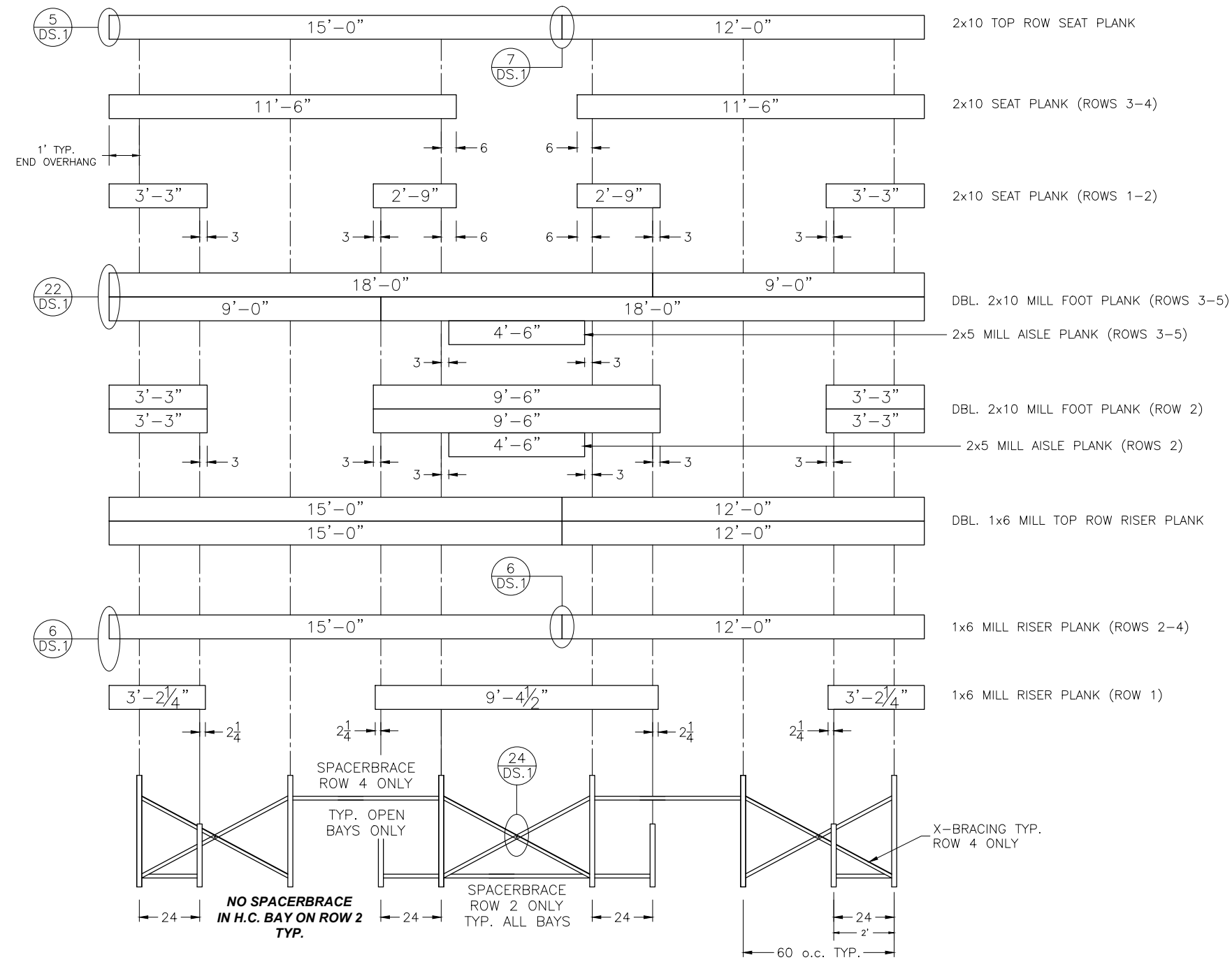


BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE:	BLEACHER ASSEMBLY	
BLEACHER MODEL #:	NA-0527ADA_VP	DRAWING NUMBER: BA.1

PLANK PLAN



FRAMING PLAN

**SEE PRINT # DS.1
FOR REFERENCED DETAILS**



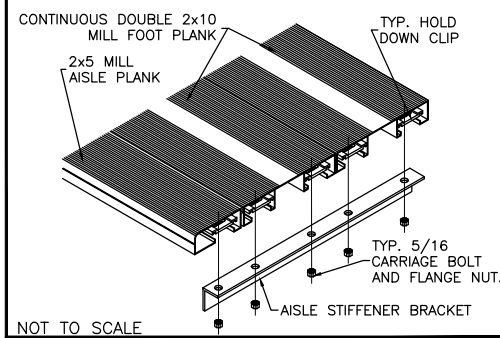
BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

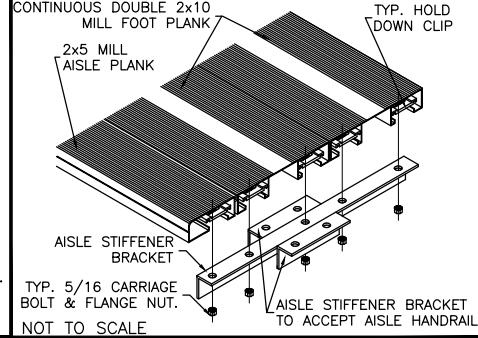
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: NON ELEV. ALUM. 5 ROW x 27'-0" PLANK & FRAMING PLAN		
BLEACHER MODEL #: NA-0527ADA_VP		DRAWING NUMBER: PF.1

⊕ AISLE PLAN TYP. ALL ROWS

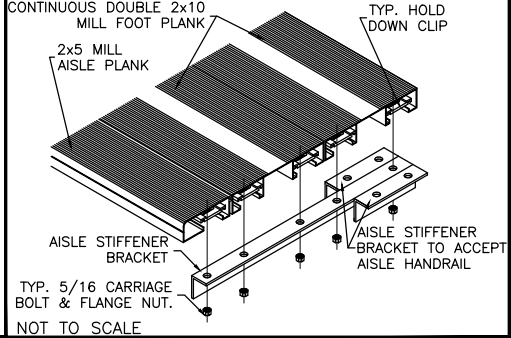
⊖ TYP. AISLE BKT DETAIL



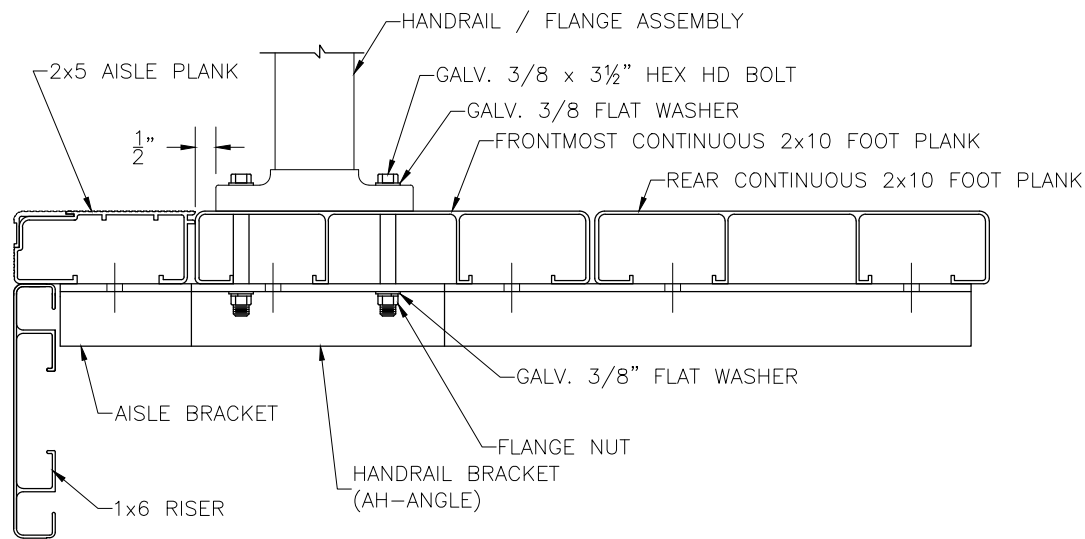
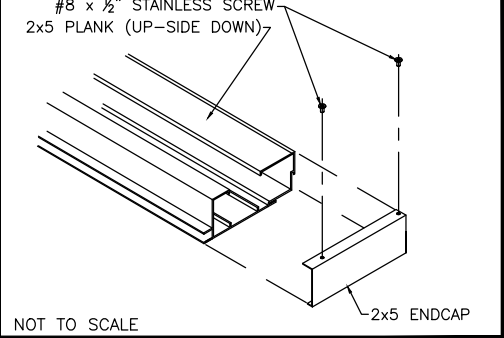
⊖ FRONT AISLE H.R. BRACKET DETAIL



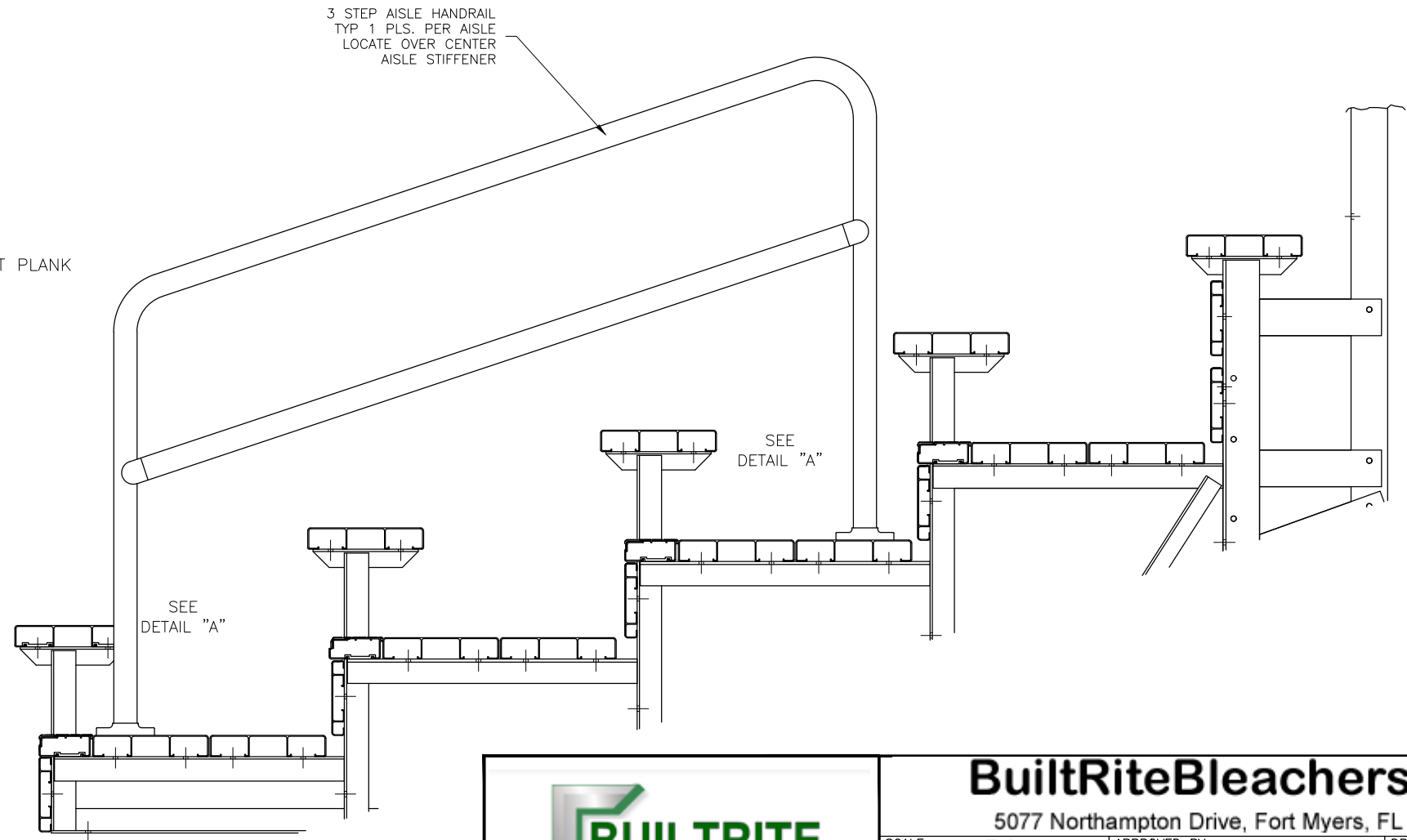
⊖ REAR AISLE H.R. BRACKET DETAIL



⊖ TYP 2x5 ENDCAP ATTACHMENT



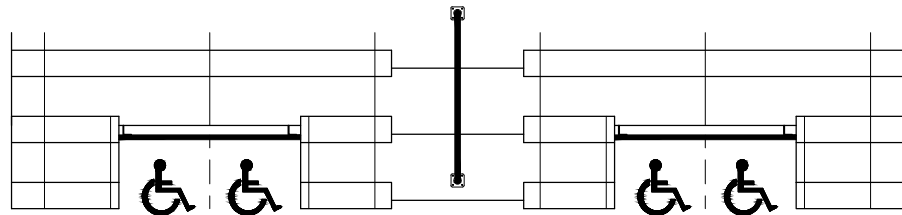
ALIGN EDGE OF FLANGE APPROX. 1/2" FROM THE LEADING EDGE OF THE FRONT MOST CONTINUOUS 2x10 FOOT PLANK (NOT THE 2x5 AISLE STEP PLANK). SLIGHTLY ADJUST FLANGE LOCATION, IF NECESSARY, SO THAT THE BOLT HOLE IS NOT DRILLED INTO A VERTICAL LEG OF THE PLANK. DRILL $\phi 7/16$ " HOLES (FOR 3/8" BOLT). ASSEMBLE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



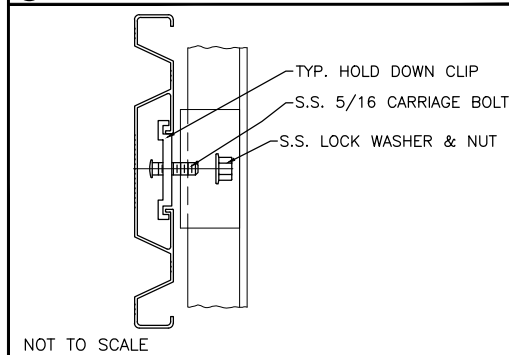
BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

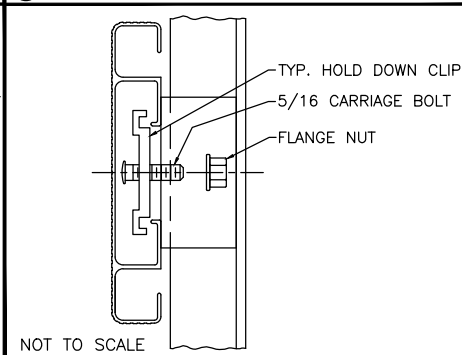
SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: 5 ROW VERTICAL AISLE ASSEMBLY		
BLEACHER MODEL #: NA-0527ADA_VP	DRAWING NUMBER: VA.1	



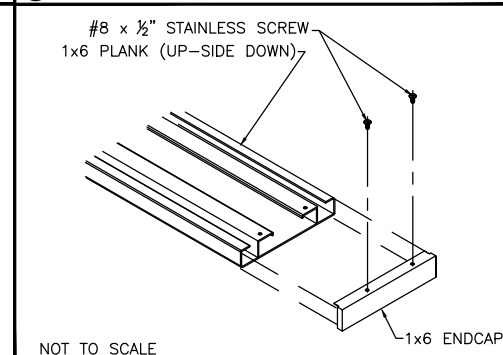
① TYP 1x8 PLANK ATTACHMENT



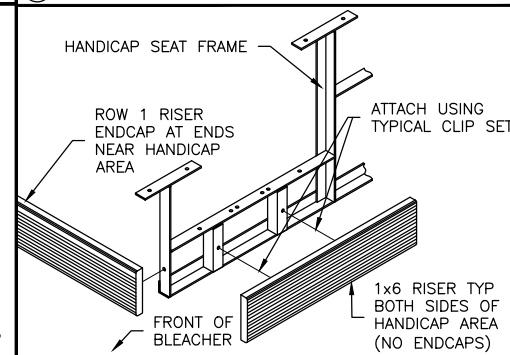
② TYP 1x6 PLANK ATTACHMENT



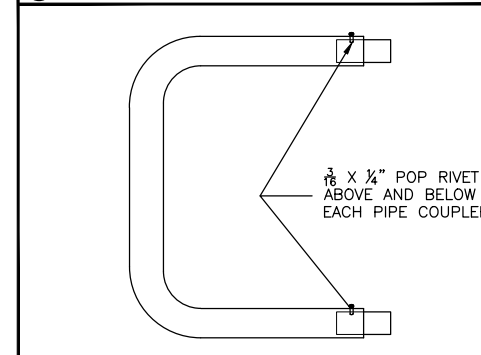
③ TYP 1x6 ENDCAP ATTACHMENT



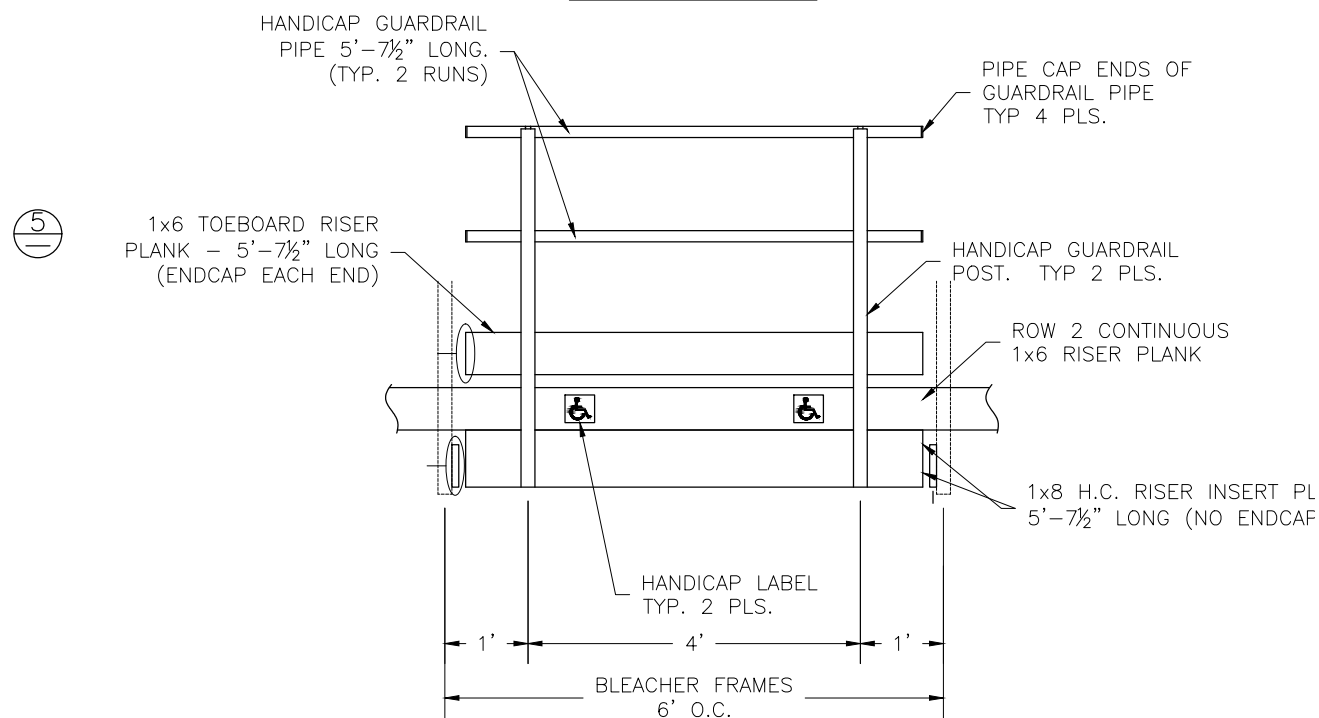
④ HC SIDE TOEBOARD ATTACHMENT



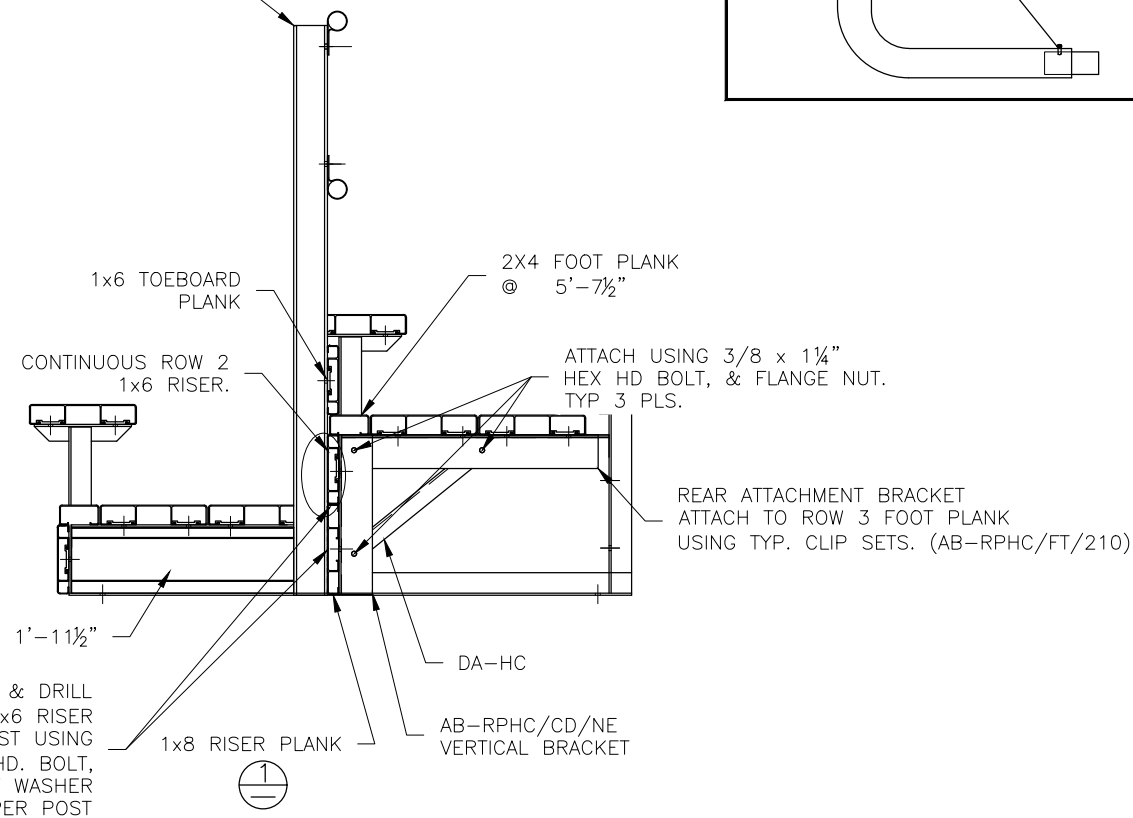
⑤ ADA-GRD_RTN



FRONT VIEW



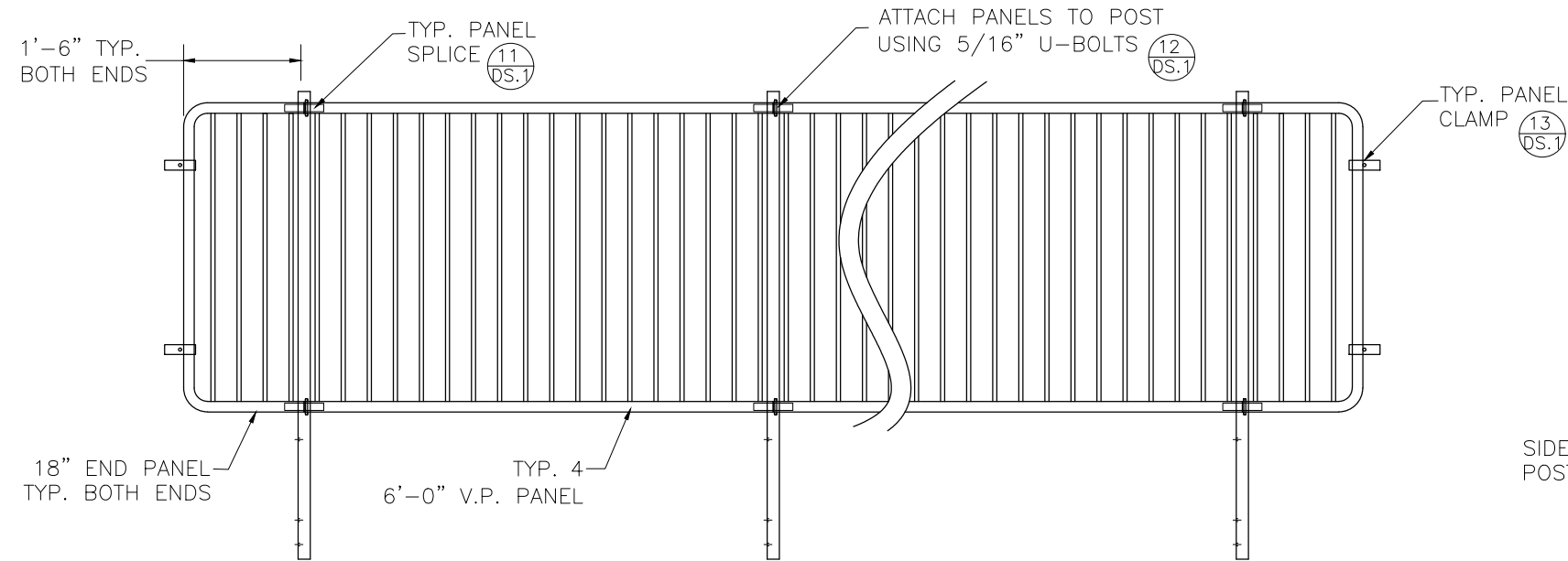
ADA GUARDRAIL POST. (RP-HC/CD)



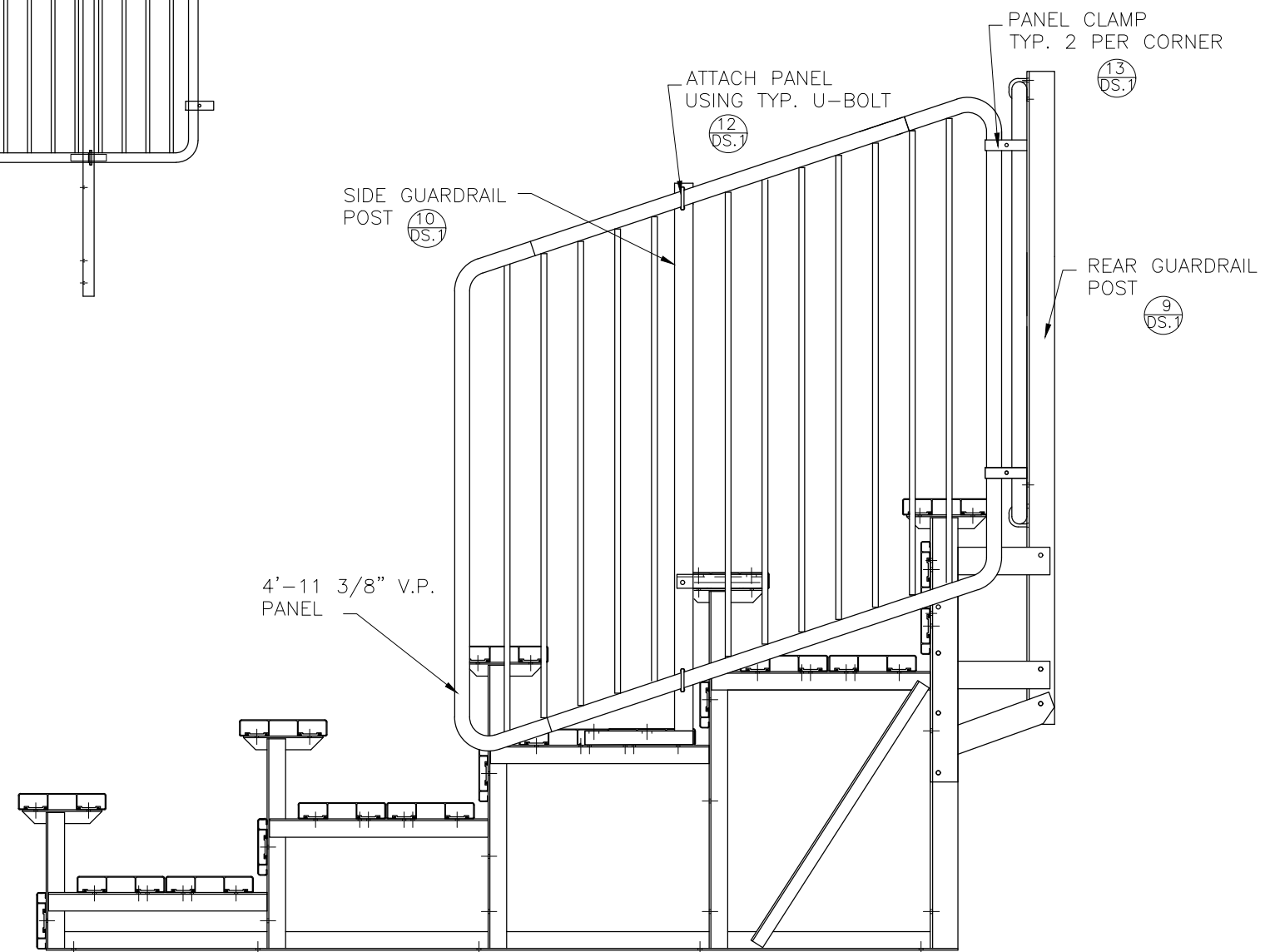
BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: WHEELCHAIR ACCESS INSERT		
BLEACHER MODEL #: NA-0527ADA_VP		DRAWING NUMBER: WC.1



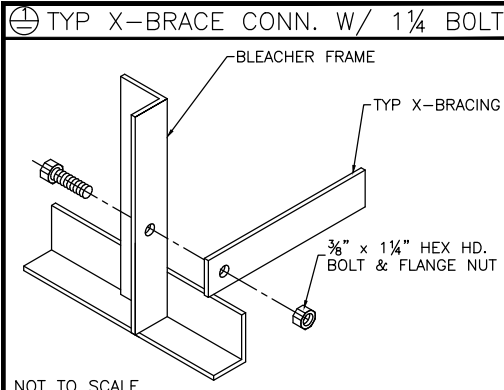
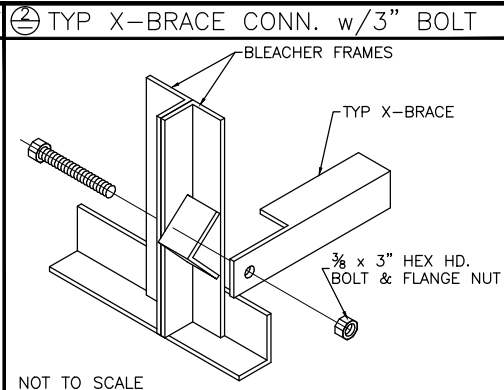
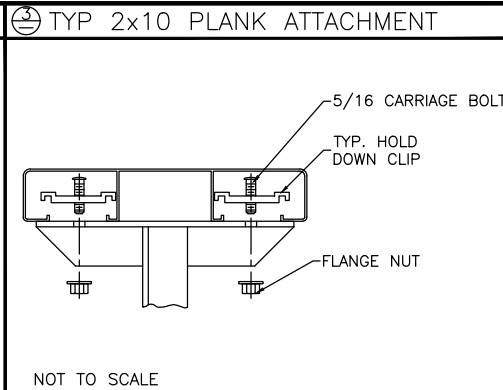
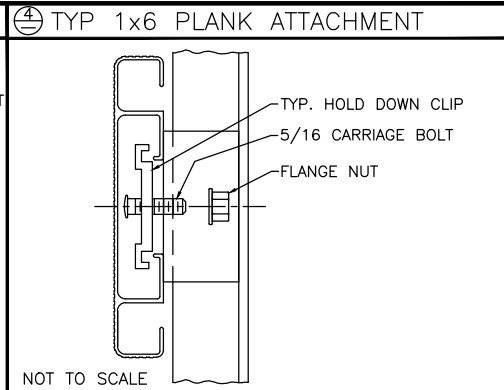
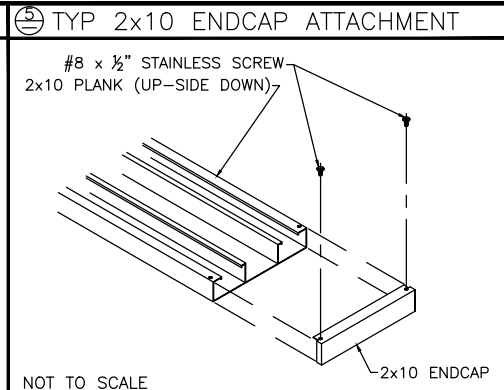
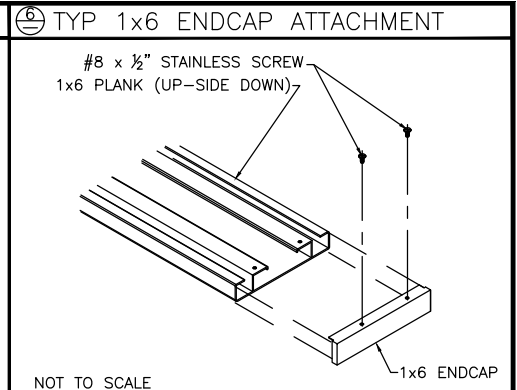
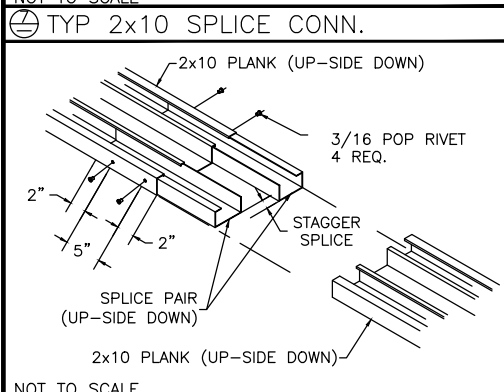
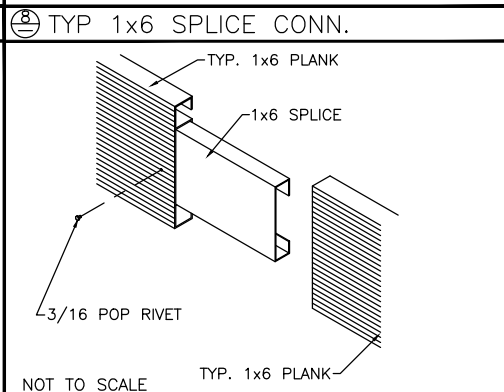
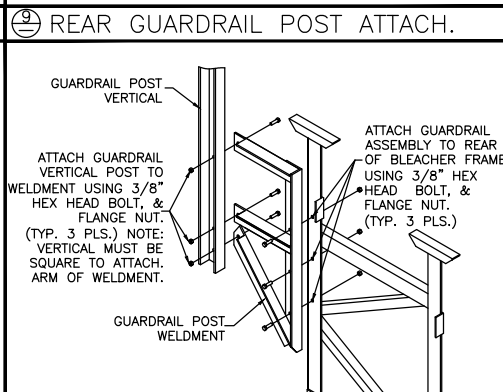
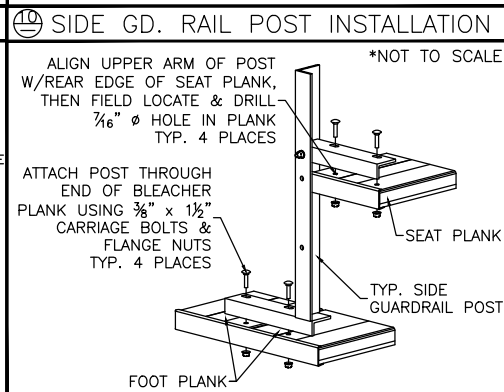
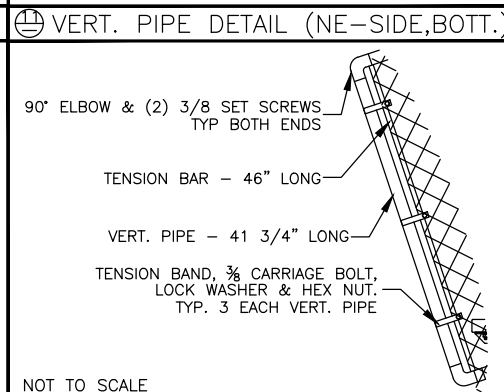
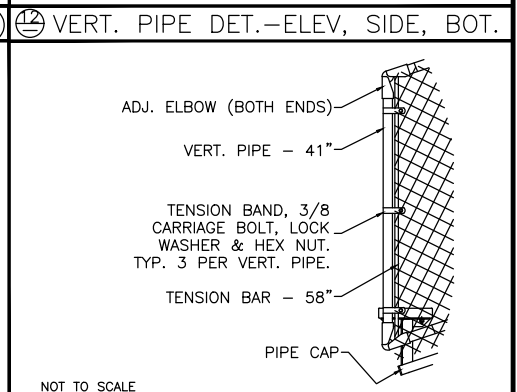
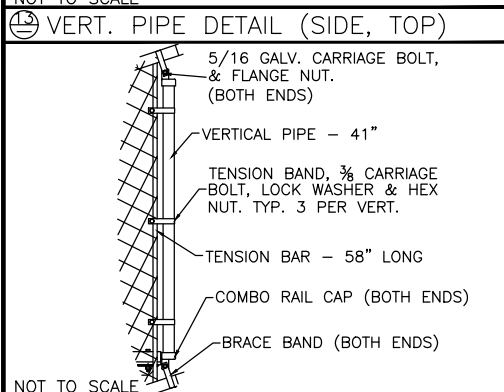
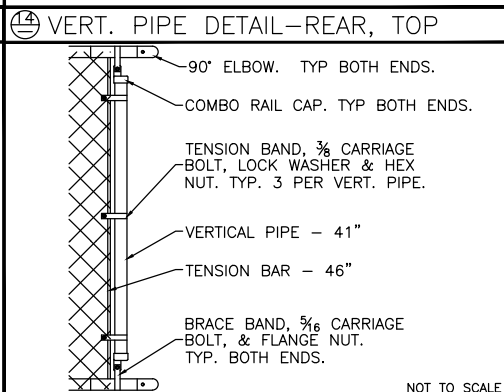
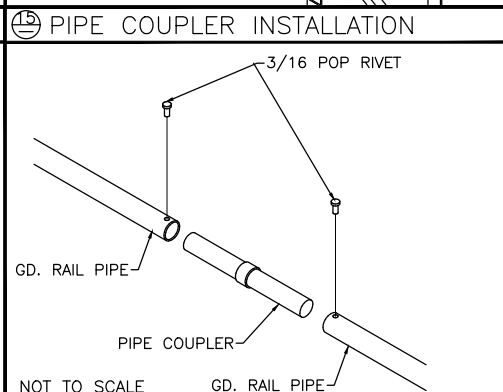
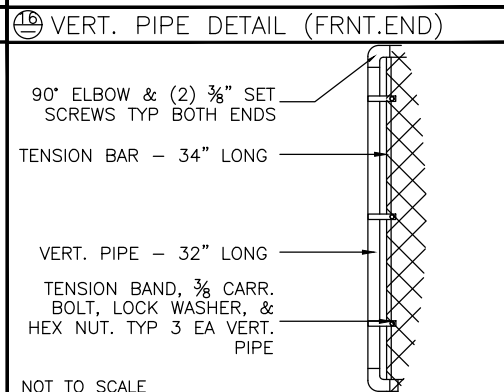
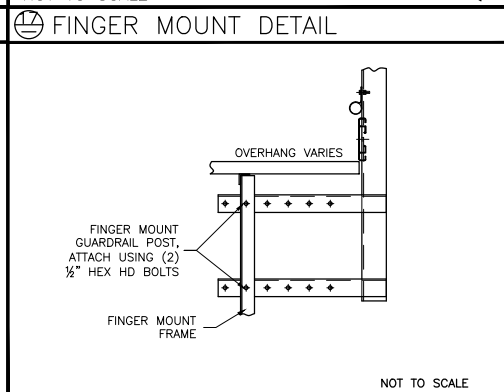
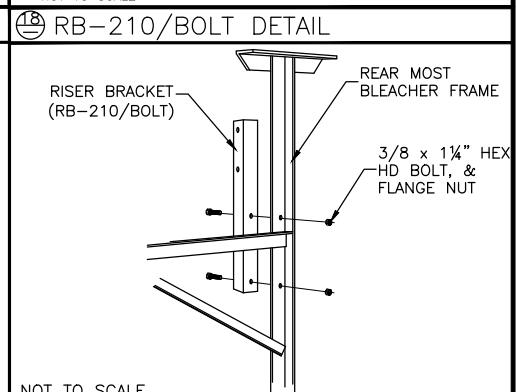
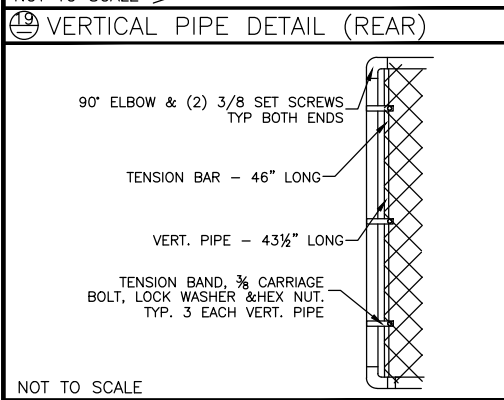
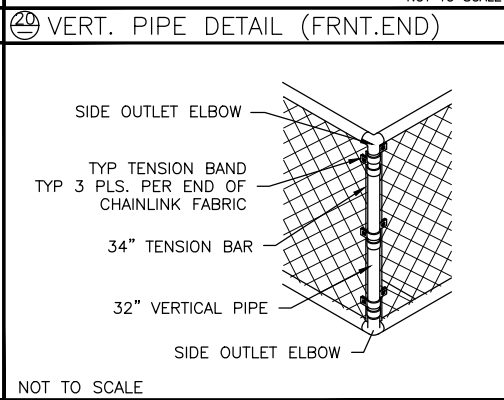
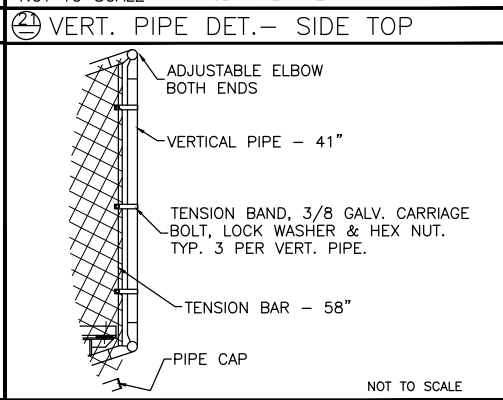
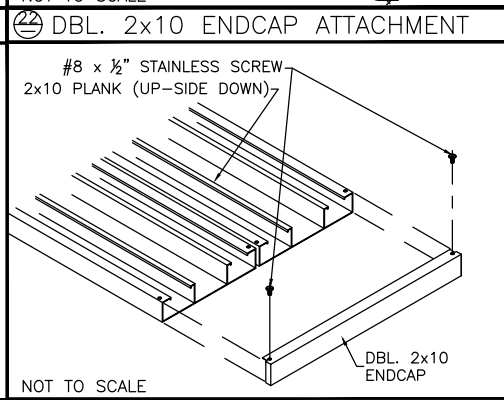
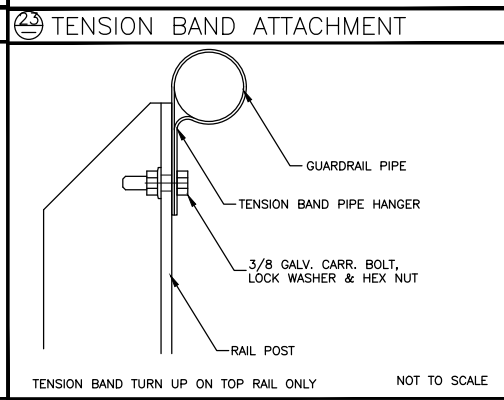
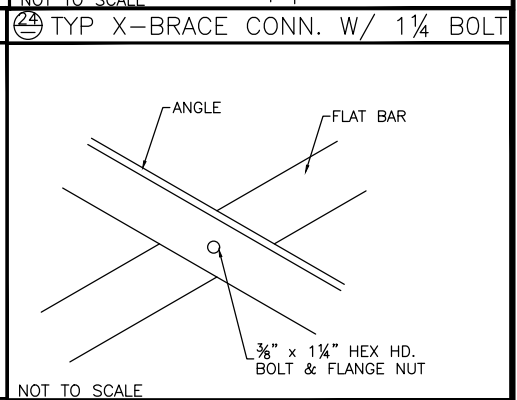
REAR GUARDRAIL
(FRONT VIEW)



BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: NON ELEV. 5 ROW x 27'-0" GUARD RAIL ASSEMBLY		
BLEACHER MODEL #: NA-0527ADA_VP	DRAWING NUMBER: GR.1	

 BLEACHER FRAME TYP X-BRACING 3/8" x 1 1/4" HEX HD. BOLT & FLANGE NUT NOT TO SCALE	 BLEACHER FRAMES TYP X-BRACE 3/8" x 3" HEX HD. BOLT & FLANGE NUT NOT TO SCALE	 5/16 CARRIAGE BOLT TYP. HOLD DOWN CLIP FLANGE NUT NOT TO SCALE	 TYP. HOLD DOWN CLIP 5/16 CARRIAGE BOLT FLANGE NUT NOT TO SCALE	 #8 x 1/2" STAINLESS SCREW 2x10 PLANK (UP-SIDE DOWN) 2x10 ENDCAP NOT TO SCALE	 #8 x 1/2" STAINLESS SCREW 1x6 PLANK (UP-SIDE DOWN) 1x6 ENDCAP NOT TO SCALE
 2x10 PLANK (UP-SIDE DOWN) 3/16 POP RIVET 4 REQ. STAGGER SPLICE SPLICE PAIR (UP-SIDE DOWN) 2x10 PLANK (UP-SIDE DOWN) NOT TO SCALE	 TYP. 1x6 PLANK 1x6 SPLICE 3/16 POP RIVET TYP. 1x6 PLANK NOT TO SCALE	 GUARDRAIL POST VERTICAL ATTACH GUARDRAIL VERTICAL POST TO WELDMENT USING 3/8" HEX HEAD BOLT, & FLANGE NUT. (TYP. 3 PLS.) NOTE: VERTICAL MUST BE SQUARE TO ATTACH. ARM OF WELDMENT. ATTACH GUARDRAIL ASSEMBLY TO REAR OF BLEACHER FRAME USING 3/8" HEX HEAD BOLT, & FLANGE NUT. (TYP. 3 PLS.) GUARDRAIL POST WELDMENT NOT TO SCALE	 *NOT TO SCALE ALIGN UPPER ARM OF POST W/REAR EDGE OF SEAT PLANK, THEN FIELD LOCATE & DRILL 7/16" Ø HOLE IN PLANK TYP. 4 PLACES ATTACH POST THROUGH END OF BLEACHER PLANK USING 3/8" x 1 1/2" CARRIAGE BOLTS & FLANGE NUTS TYP. 4 PLACES SEAT PLANK TYP. SIDE GUARDRAIL POST FOOT PLANK NOT TO SCALE	 90° ELBOW & (2) 3/8 SET SCREWS TYP BOTH ENDS TENSION BAR - 46" LONG VERT. PIPE - 41 3/4" LONG TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 EACH VERT. PIPE NOT TO SCALE	 ADJ. ELBOW (BOTH ENDS) VERT. PIPE - 41" TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 PER VERT. PIPE. TENSION BAR - 58" PIPE CAP NOT TO SCALE
 5/16 GALV. CARRIAGE BOLT, & FLANGE NUT. (BOTH ENDS) VERTICAL PIPE - 41" TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 PER VERT. PIPE. TENSION BAR - 58" LONG COMBO RAIL CAP (BOTH ENDS) BRACE BAND (BOTH ENDS) NOT TO SCALE	 90° ELBOW. TYP BOTH ENDS. COMBO RAIL CAP. TYP BOTH ENDS. TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 PER VERT. PIPE. VERTICAL PIPE - 41" TENSION BAR - 46" BRACE BAND, 5/16 CARRIAGE BOLT, & FLANGE NUT. TYP. BOTH ENDS. NOT TO SCALE	 3/16 POP RIVET GD. RAIL PIPE PIPE COUPLER GD. RAIL PIPE NOT TO SCALE	 90° ELBOW & (2) 3/8" SET SCREWS TYP BOTH ENDS TENSION BAR - 34" LONG VERT. PIPE - 32" LONG TENSION BAND, 3/8 CARR. BOLT, LOCK WASHER, & HEX NUT. TYP 3 EA VERT. PIPE NOT TO SCALE	 OVERHANG VARIES FINGER MOUNT GUARDRAIL POST. ATTACH USING (2) 1/2" HEX HD BOLTS FINGER MOUNT FRAME NOT TO SCALE	 RISER BRACKET (RB-210/BOLT) REAR MOST BLEACHER FRAME 3/8 x 1 1/4" HEX HD BOLT, & FLANGE NUT NOT TO SCALE
 90° ELBOW & (2) 3/8 SET SCREWS TYP BOTH ENDS TENSION BAR - 46" LONG VERT. PIPE - 43 1/4" LONG TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 EACH VERT. PIPE NOT TO SCALE	 SIDE OUTLET ELBOW TYP TENSION BAND TYP 3 PLS. PER END OF CHAINLINK FABRIC 34" TENSION BAR 32" VERTICAL PIPE SIDE OUTLET ELBOW NOT TO SCALE	 ADJUSTABLE ELBOW BOTH ENDS VERTICAL PIPE - 41" TENSION BAND, 3/8 GALV. CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 PER VERT. PIPE. TENSION BAR - 58" PIPE CAP NOT TO SCALE	 #8 x 1/2" STAINLESS SCREW 2x10 PLANK (UP-SIDE DOWN) DBL. 2x10 ENDCAP NOT TO SCALE	 GUARDRAIL PIPE TENSION BAND PIPE HANGER 3/8 GALV. CARR. BOLT, LOCK WASHER & HEX NUT RAIL POST TENSION BAND TURN UP ON TOP RAIL ONLY NOT TO SCALE	 ANGLE FLAT BAR 3/8" x 1 1/4" HEX HD. BOLT & FLANGE NUT NOT TO SCALE



BuiltRiteBleachers.com

5077 Northampton Drive, Fort Myers, FL 33919

SCALE: N.T.S.	APPROVED BY:	DRAWN BY: JML
DATE: 10/17/14		
TITLE: DETAIL SHEETS		
BLEACHER MODEL #: NA-0527ADA_VP		DRAWING NUMBER: DS.1