



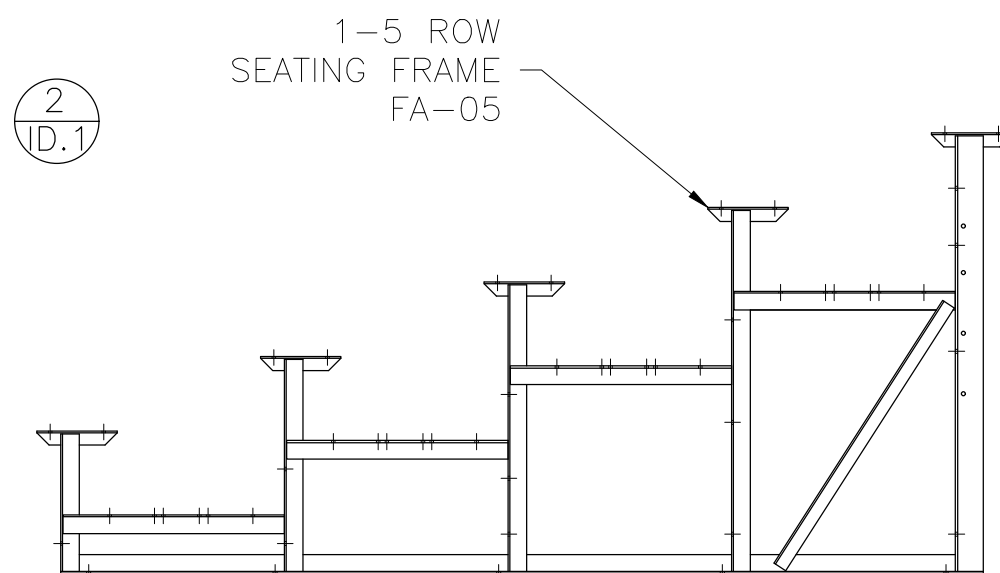
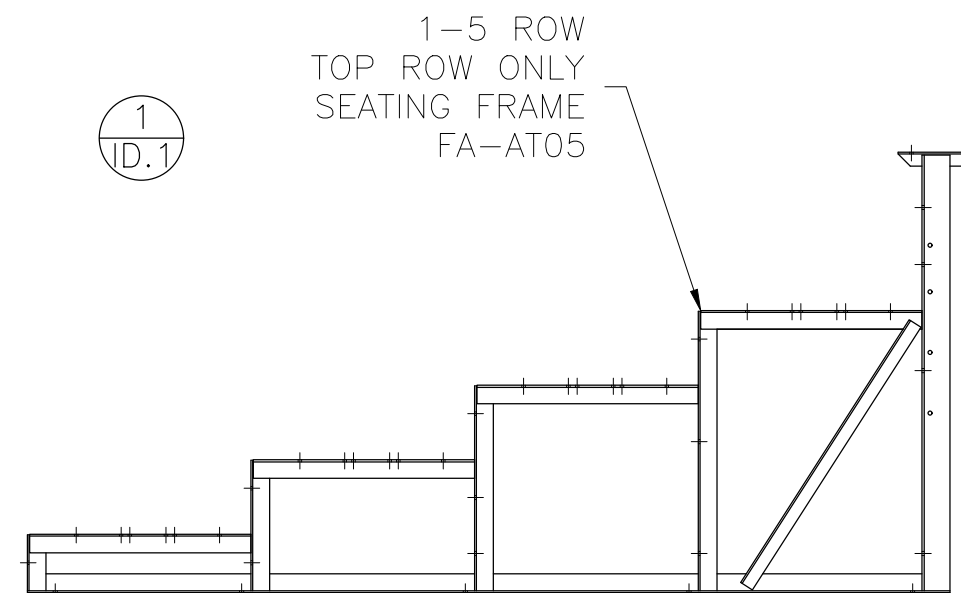
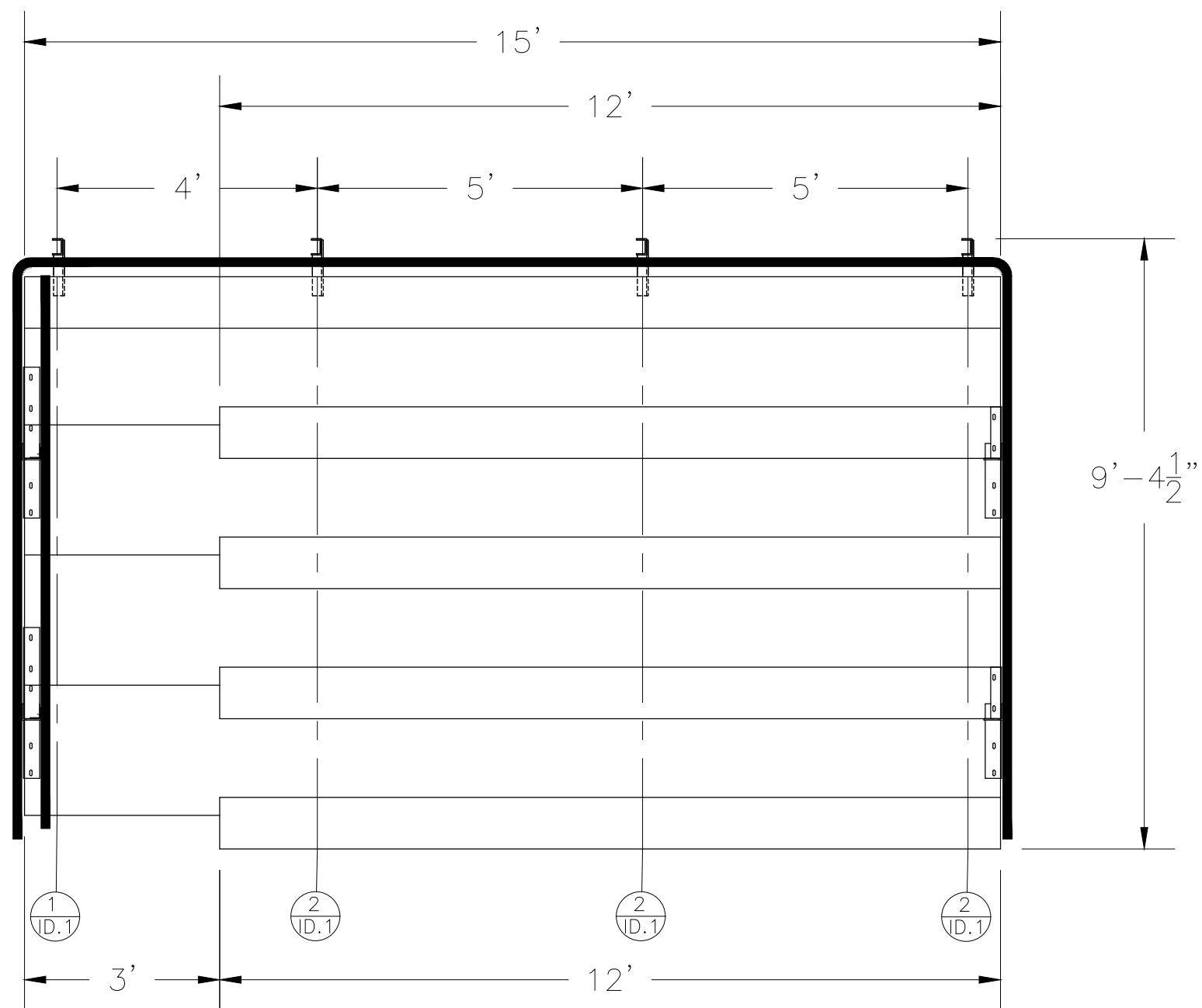
335bl610-1 Assembly Drawings

5 Row - Aluminum Bleachers - Non-Elevated - Chain-link Guardrail System - 15 Feet - Aisle Spectator Right - Weight: 1090lbs - Seats 42

Park Warehouse, LLC

5120 INVESTMENT DRIVE - FORT WAYNE, IN 46808

CS.1	– COVER SHEET
TD.1	– BLEACHER SEATING PLAN
FP.1	– FOUNDATION PLAN
AP.1	– ANCHORING PLAN
BA.1	– BLEACHER ASSEMBLY
BR.1	– BRACE ASSEMBLY
PF.1	– PLANK & FRAMING PLAN
VA.1	– VERTICAL AISLE ASSEMBLY
GR.1	– GUARDRAIL ASSEMBLY
DS.1	– DETAIL SHEET



SECTION LENGTH	GROSS SEATS	ACTUAL SEATS	NO. OF ROWS	NET SEATS
15	10.00	10.00	1	10
12	8.00	8.00	4	32
NET SEATS				42
WHEELCHAIR SPACES				0
TOTAL NET SEATING CAPACITY				42
(BASED ON 18" PER SEAT)				

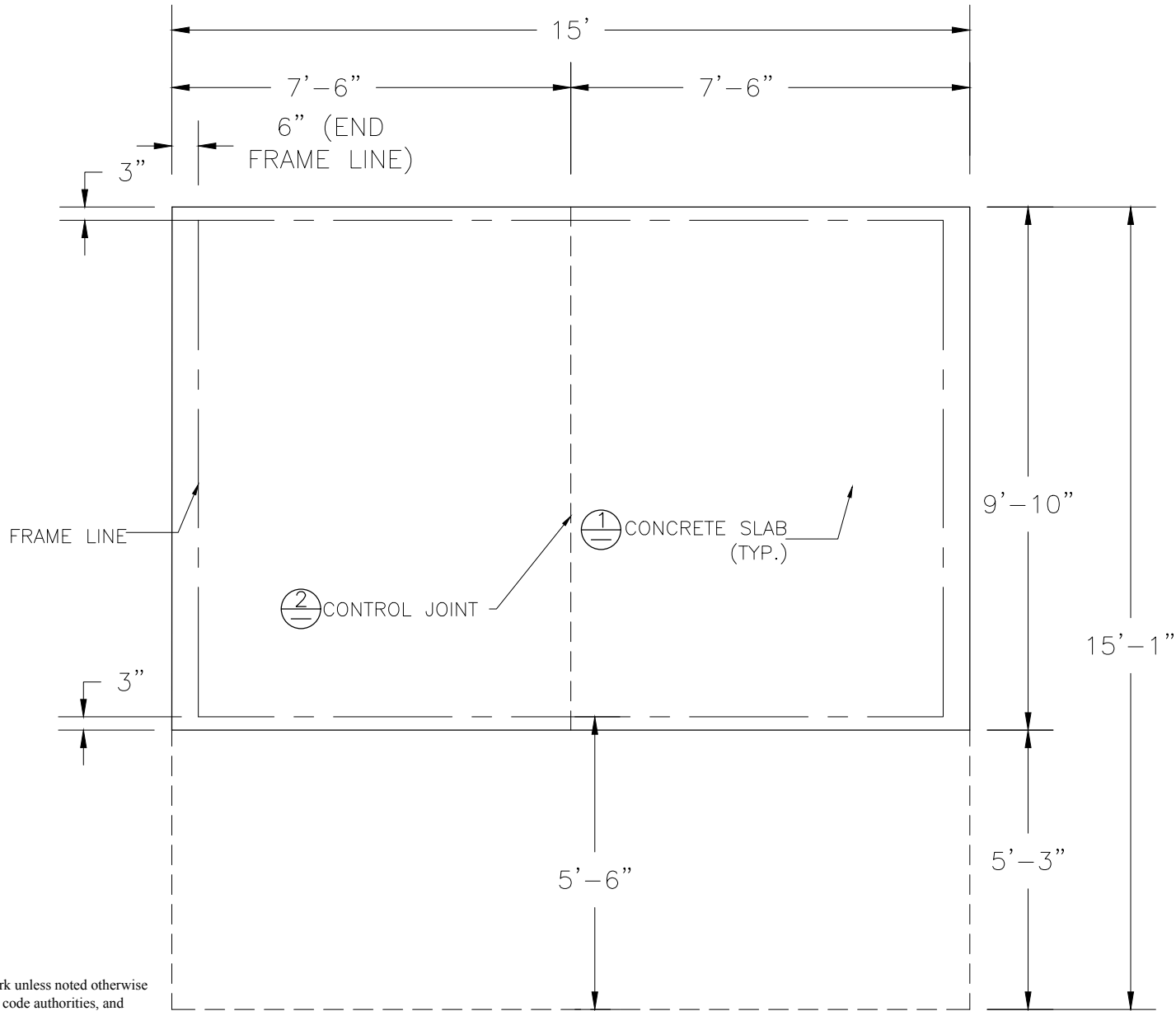


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Park Warehouse, LLC

7495 W. Atlantic Ave. Suite 200-294, Delray Beach, FL 33446

SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. BLEACHER SEATING PLAN		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	TD.1



CONCRETE FOUNDATION SPECIFICATIONS

SCOPE:

Foundation construction is not part of Park Warehouse, LLC. (PW, LLC.) 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 PW.

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 2" into the concrete.

CONCRETE SPECIFICATIONS:

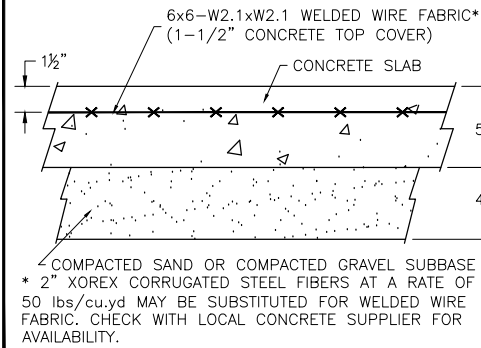
- All concrete construction shall be in accordance with *ACI 318-08*.
- All concrete shall have a minimum 28-day strength of $F_c=3000$ psi.
- A 1/4" bituminous expansion joint material shall be placed between strip and slab foundations when adjacent to each other.
- The depressions in the top of the 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:

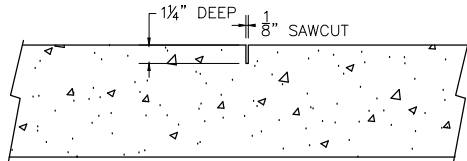
- Concrete slab shall have a minimum thickness of 5" (PW, LLC. recommends, and some areas may require 6" thickness) and placed on 4" of compacted gravel or compacted sand sub-base.
- PW, LLC. recommends that the concrete slab be reinforced with 6x6-W2.1xW2.1 welded wire fabric¹ at 1'-2" concrete cover 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 PW 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'-3" IN OVERALL DEPTH TO ACCOMMODATE WHEELCHAIRS.

CONCRETE SLAB SECTION



CONTROL JOINT DETAIL



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Park Warehouse, LLC

7495 W. Atlantic Ave. Suite 200-294, Delray Beach, FL 33446

SCALE: N.T.S.

DATE: 10/02/2015

APPROVED BY:

CHUCK 5/20/2016

DRAWN BY:

JML

TITLE:

NON ELEV. 5 ROW x 15'-0" ALUM. FOUNDATION PLAN

CUSTOMER:

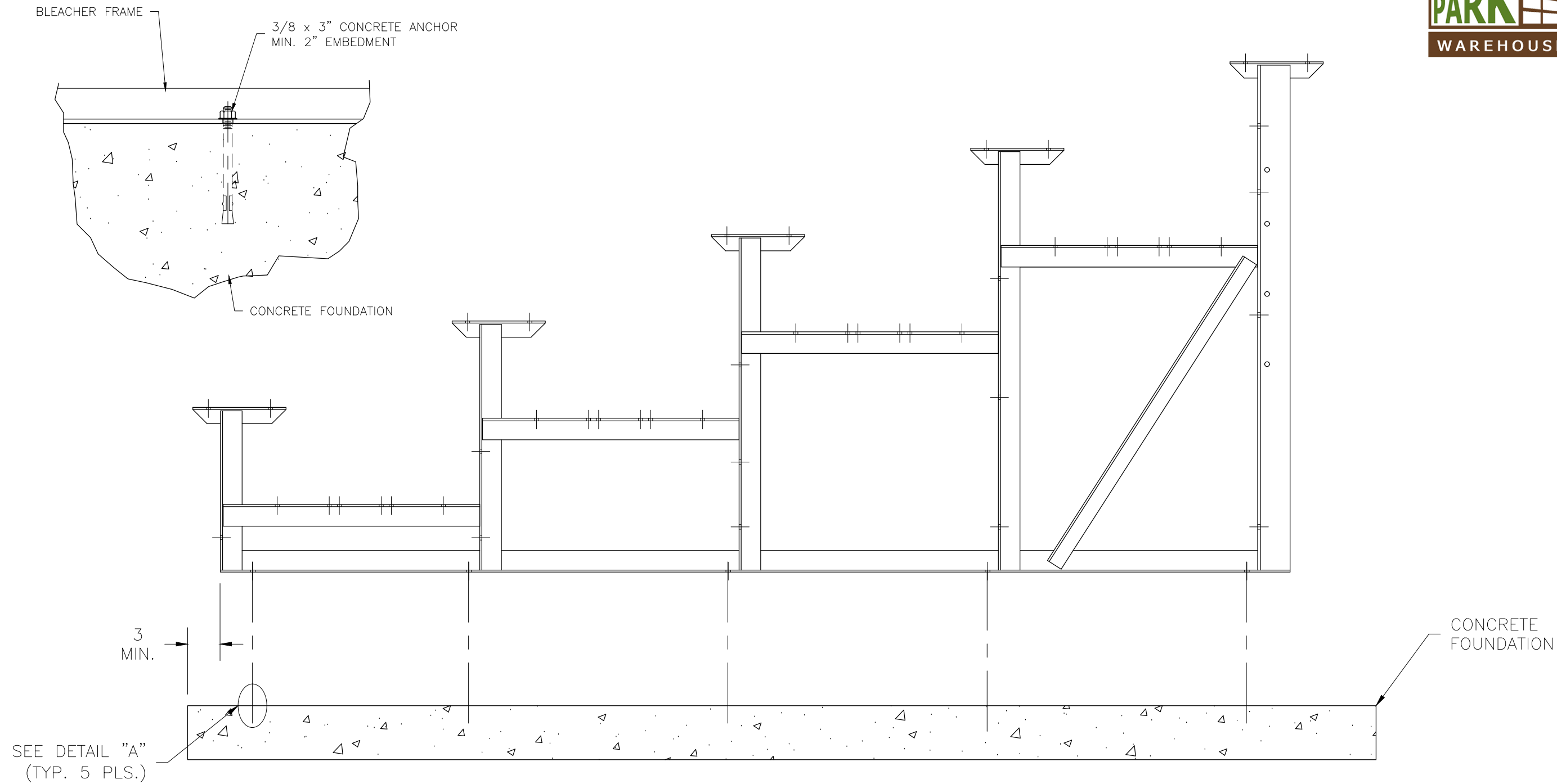
335bl605-1-DLX-CLR

DRAWING NUMBER:

FP.1

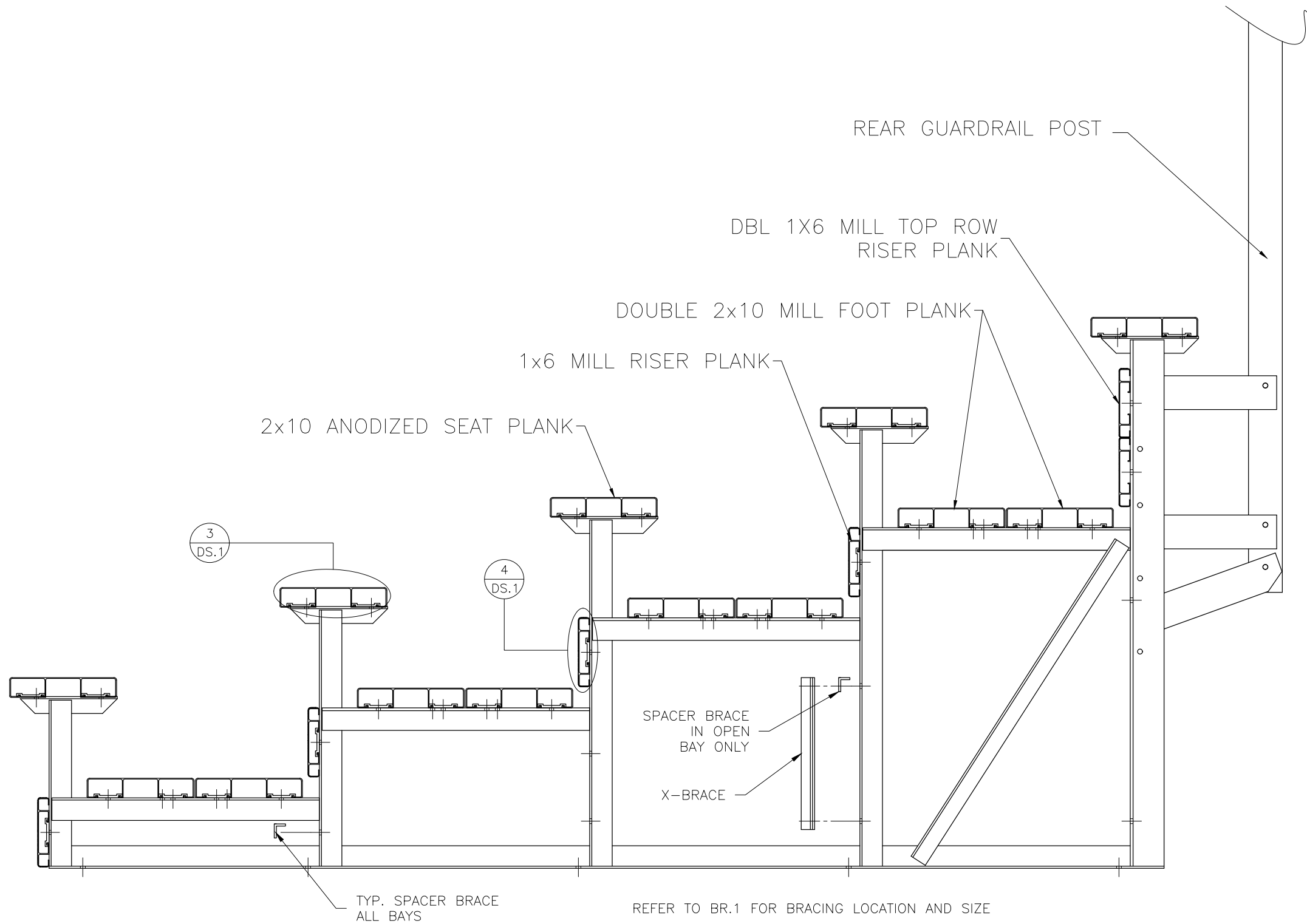


DETAIL "A" - CONCRETE ANCHOR ATTACHMENT



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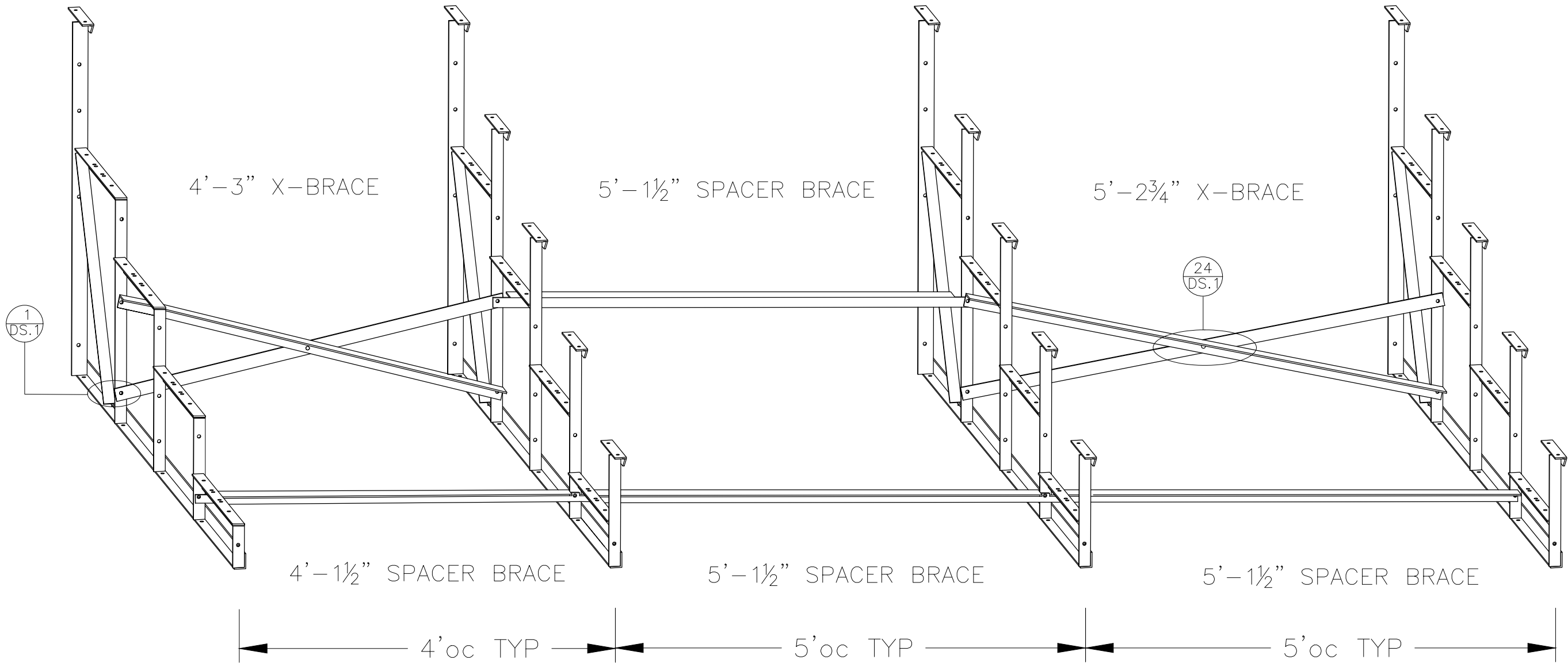
Park Warehouse, LLC		
7495 W. Atlantic Ave. Suite 200-294, Delray Beach, FL 33446		
SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. ANCHORING PLAN		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	AP.1



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SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. BLEACHER ASSEMBLY		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	BA.1

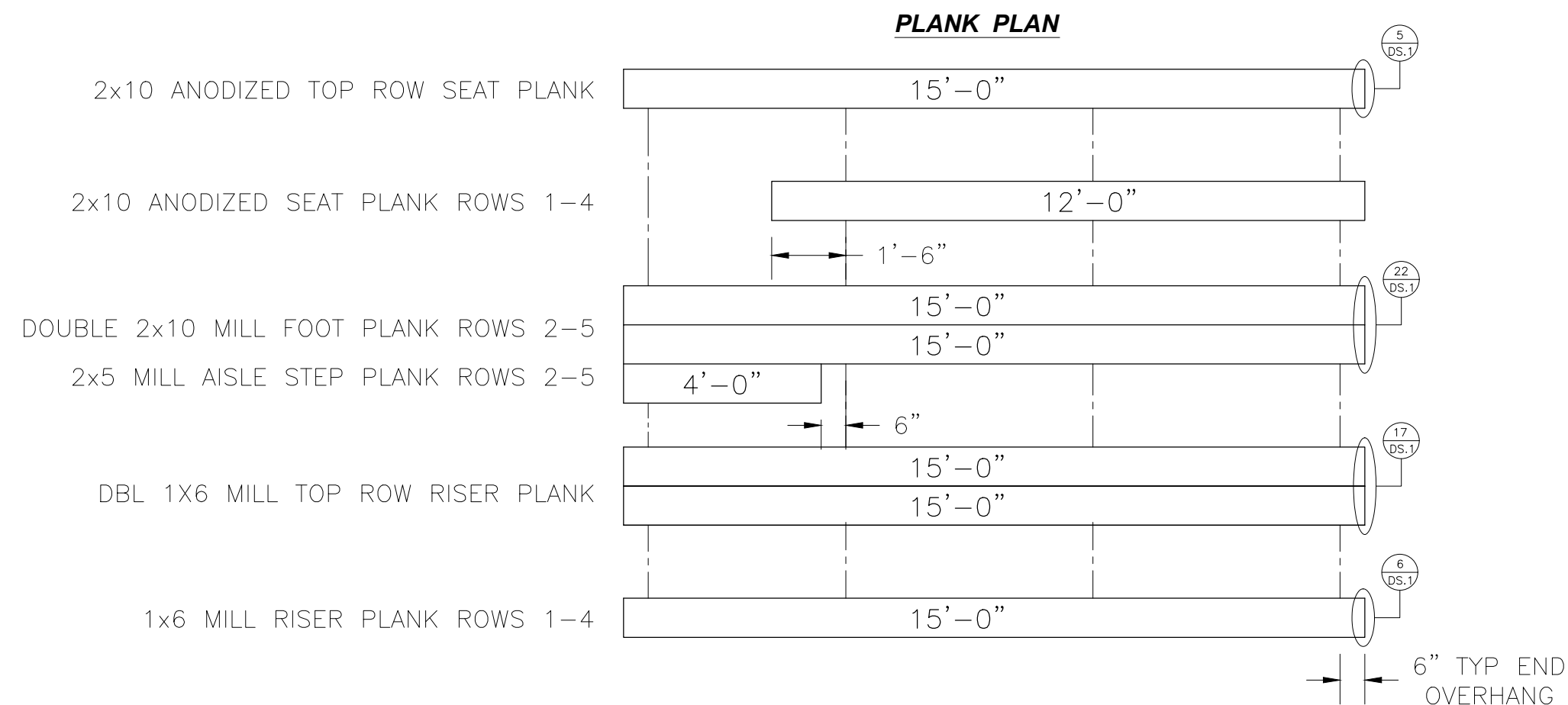
PRE-ASSEMBLE X-BRACE SETS. EACH SET CONSISTS OF ONE FLAT BAR AND ONE ANGLE. ONCE ASSEMBLED, THEY WILL BECOME AN "X". THEY BOLT TOGETHER WITH A 3/8" X 1 1/4" HEX HEAD BOLT AND FLANGE NUT THRU THE CENTER HOLE. (SEE DETAIL 24 ON DETAIL SHEET)



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SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. BRACE ASSEMBLY		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	BR.1

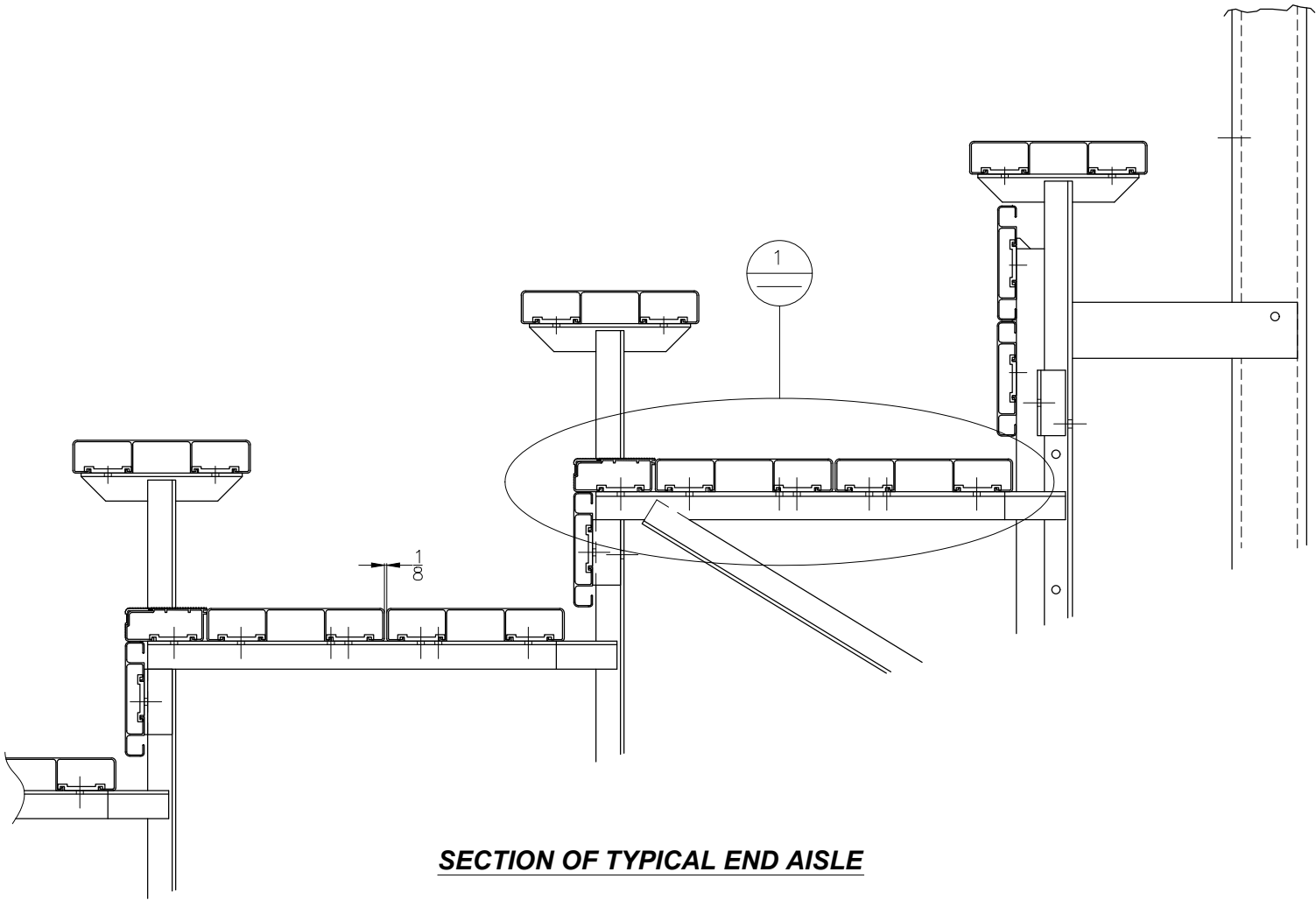
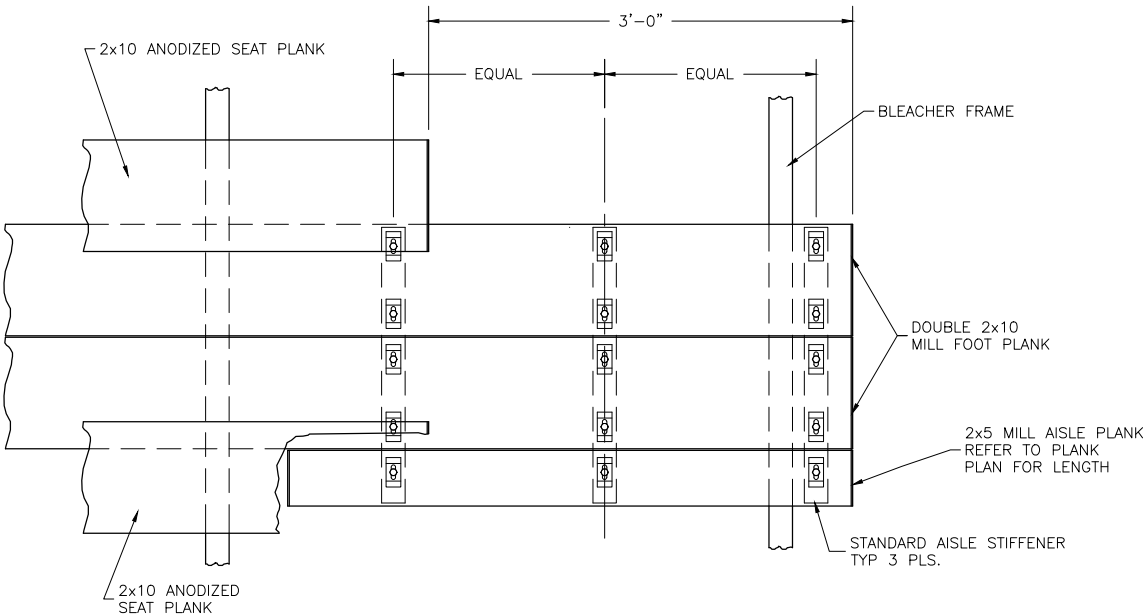


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7495 W. Atlantic Ave. Suite 200-294, Delray Beach, FL 33446		
SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. PLANK & FRAMING PLAN		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	PF.1

1

1 AISLE PLAN TYP ALL ROWS



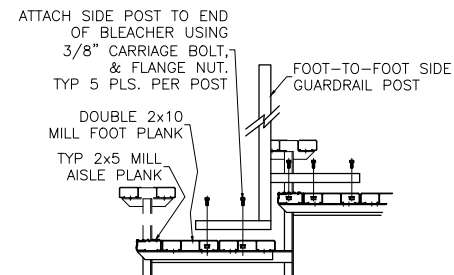
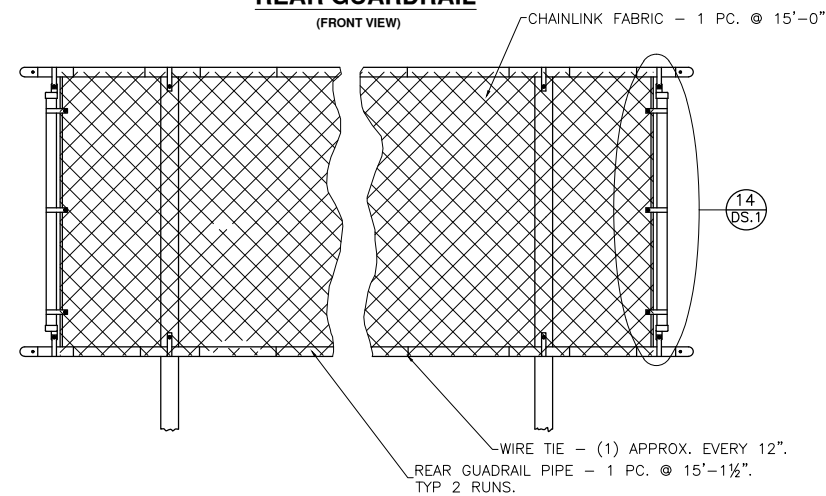
SECTION OF TYPICAL END AISLE

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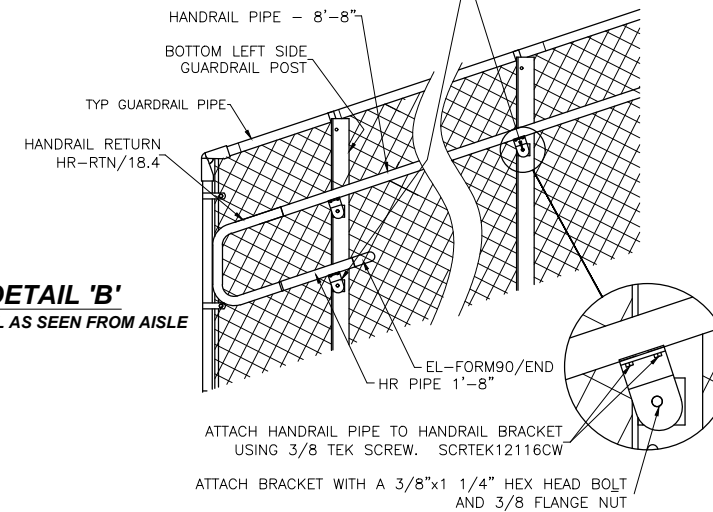
SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: END AISLE		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	VA.1

REAR GUARDRAIL
(FRONT VIEW)

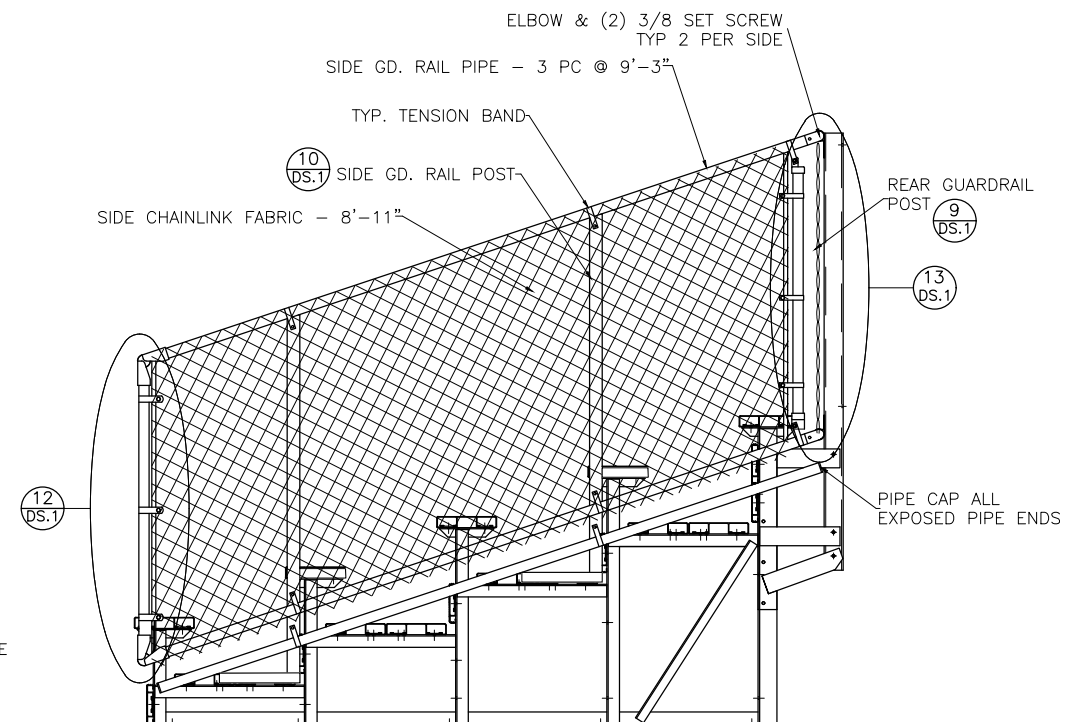
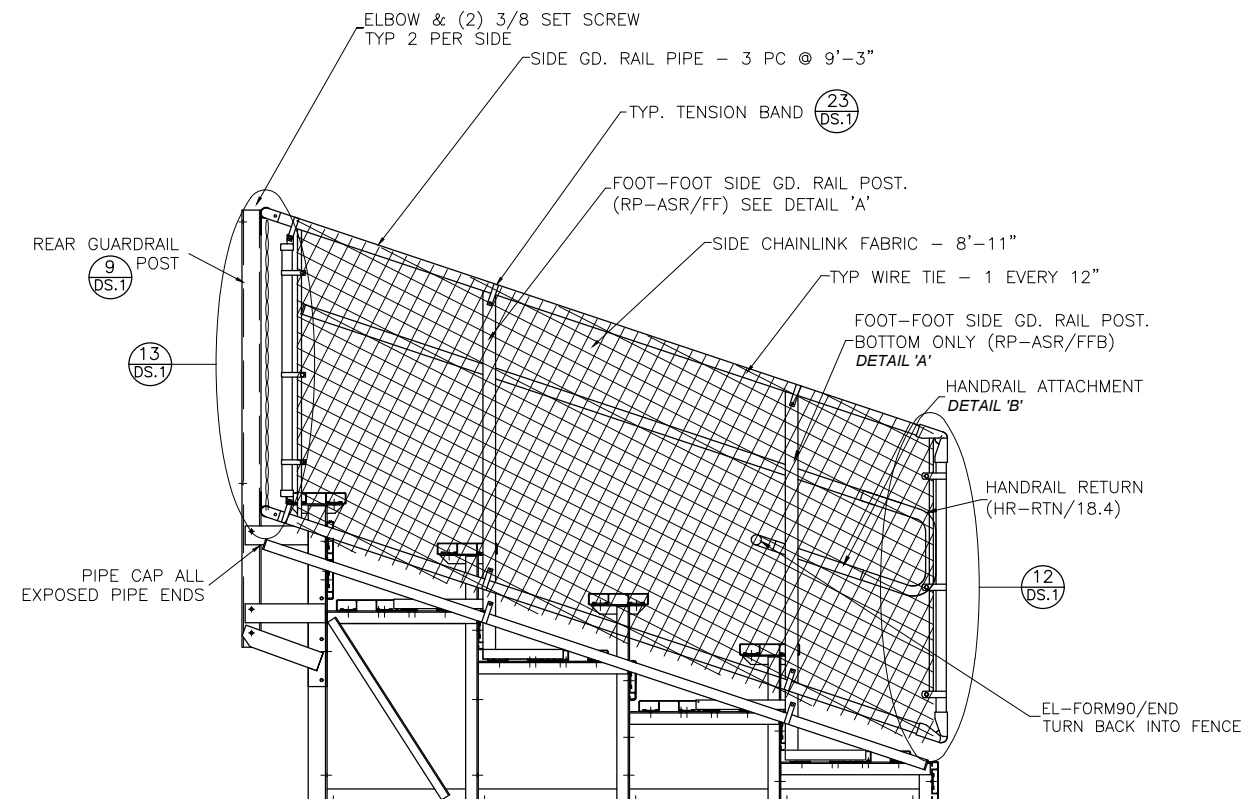


DETAIL 'A'
FOOT-TO-FOOT SIDE GUARDRAIL POST ATTACHMENT

aisle handrail bracket. ATTACH USING 3/8" HEX HD BOLT, & FLANGE NUT. TYP 2 PLS. BOTT. POST ONLY, TYP 1 ALL OTHER POSTS. (LEFT SIDE GUARDRAIL ONLY)



DETAIL 'B'
HANDRAIL AS SEEN FROM AISLE



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SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/02/2015	5/20/2016	
TITLE: NON ELEV. 5 ROW x 15'-0" ALUM. GUARD RAIL ASSEMBLY		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	GR.1

⊕ TYP X-BRACE CONN. W/ 1 1/4" BOLT BLEACHER FRAME TYP X-BRACING 3/8" x 1 1/4" HEX HD. BOLT & FLANGE NUT NOT TO SCALE	⊕ TYP X-BRACE CONN. w/3" BOLT BLEACHER FRAMES TYP X-BRACE 3/8" x 3" HEX HD. BOLT & FLANGE NUT NOT TO SCALE	⊕ TYP 2x10 PLANK ATTACHMENT 5/16 CARRIAGE BOLT TYP. HOLD DOWN CLIP FLANGE NUT NOT TO SCALE	⊕ TYP 1x6 PLANK ATTACHMENT TYP. HOLD DOWN CLIP 5/16 CARRIAGE BOLT FLANGE NUT NOT TO SCALE	⊕ TYP 2x10 ENDCAP ATTACHMENT #8 x 1/2" STAINLESS SCREW 2x10 PLANK (UP-SIDE DOWN) NOT TO SCALE	⊕ TYP 1x6 ENDCAP ATTACHMENT #8 x 1/2" STAINLESS SCREW 1x6 PLANK (UP-SIDE DOWN) NOT TO SCALE
⊕ TYP 2x10 SPLICE CONN. 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 SPLICE CONN. TYP. 1x6 PLANK 1x6 SPLICE 3/16 POP RIVET TYP. 1x6 PLANK NOT TO SCALE	⊕ REAR GUARDRAIL POST ATTACH. 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	⊕ SIDE GD. RAIL POST INSTALLATION *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	⊕ VERT. PIPE DETAIL (NE-SIDE,BOTT.) 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	⊕ VERT. PIPE DET.-ELEV, SIDE, BOT. 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
⊕ VERT. PIPE DETAIL (SIDE, TOP) 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. TENSION BAR - 58" LONG COMBO RAIL CAP (BOTH ENDS) BRACE BAND (BOTH ENDS) NOT TO SCALE	⊕ VERT. PIPE DETAIL-REAR, TOP 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	⊕ PIPE COUPLER INSTALLATION 3/16 POP RIVET GD. RAIL PIPE PIPE COUPLER GD. RAIL PIPE NOT TO SCALE	⊕ VERT. PIPE DETAIL (FRNT.END) 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	⊕ TYP 1x6 ENDCAP ATTACHMENT #8 x 1/2" STAINLESS SCREW 1x6 PLANK (UP-SIDE DOWN) DBL 1x6 ENDCAP NOT TO SCALE	⊕ RB-210/BOLT DETAIL RISER BRACKET (RB-210/BOLT) REAR MOST BLEACHER FRAME 3/8 x 1 1/4" HEX HD BOLT, & FLANGE NUT NOT TO SCALE
⊕ VERTICAL PIPE DETAIL (REAR) 90° ELBOW & (2) 3/8 SET SCREWS TYP BOTH ENDS TENSION BAR - 46" LONG VERT. PIPE - 43 1/2" LONG TENSION BAND, 3/8 CARRIAGE BOLT, LOCK WASHER & HEX NUT. TYP. 3 EACH VERT. PIPE NOT TO SCALE	⊕ VERT. PIPE DETAIL (FRNT.END) 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	⊕ VERT. PIPE DET.-SIDE TOP 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	⊕ DBL. 2x10 ENDCAP ATTACHMENT #8 x 1/2" STAINLESS SCREW 2x10 PLANK (UP-SIDE DOWN) DBL. 2x10 ENDCAP NOT TO SCALE	⊕ TENSION BAND ATTACHMENT 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	⊕ TYP X-BRACE CONN. W/ 1 1/4" BOLT ANGLE FLAT BAR 3/8" x 1 1/4" HEX HD. BOLT & FLANGE NUT NOT TO SCALE



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SCALE: N.T.S.	APPROVED BY: CHUCK	DRAWN BY: JML
DATE: 10/12/16	5/20/2016	
TITLE: DETAIL SHEETS		
CUSTOMER: 335bl605-1-DLX-CLR	DRAWING NUMBER:	DS.1