

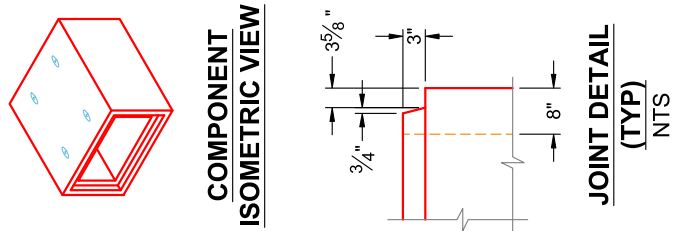
Job Name: 25-2073 - Alcoa Outfall
Job Location: Newburgh, IN
Contractor: Bowen Engineering Corporation

PC: A. Chambers
TECH: J. Horsley
Plant: 100

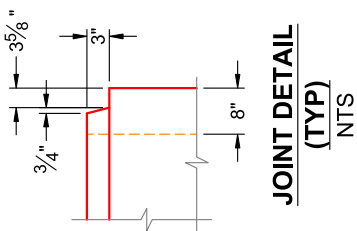


Structure ID: **BC 4 x 2 (PC 3)**
Spec: Box Culvert
Type: Box Culvert (08W/08F/08T) No Haunch
Size: 48" x 24"

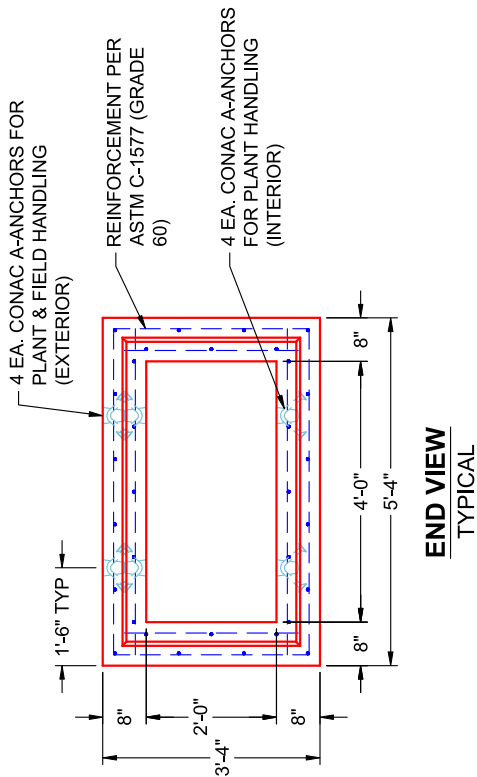
Rim: 5.75'
Invert: 5.75'
Rim to Invert: 0'
Sump: 0"
Floor (Top): 0"
Floor Height: 0"
Floor (Bot): 0"
Overall Height: 5.75'
Slack: 0"



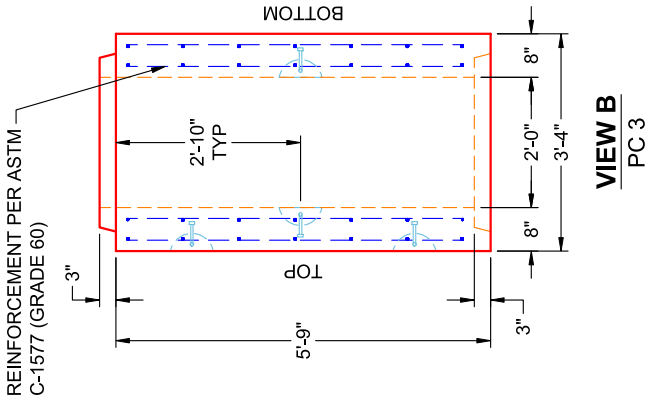
COMPONENT ISOMETRIC VIEW



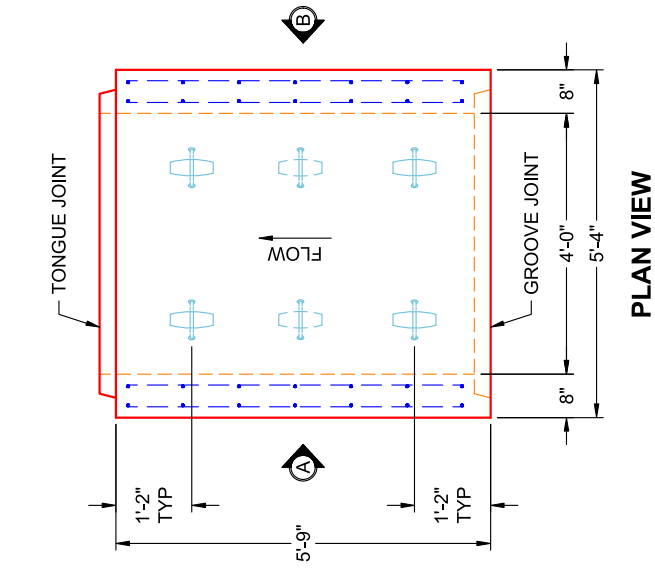
JOINT DETAIL (TYP) NTS



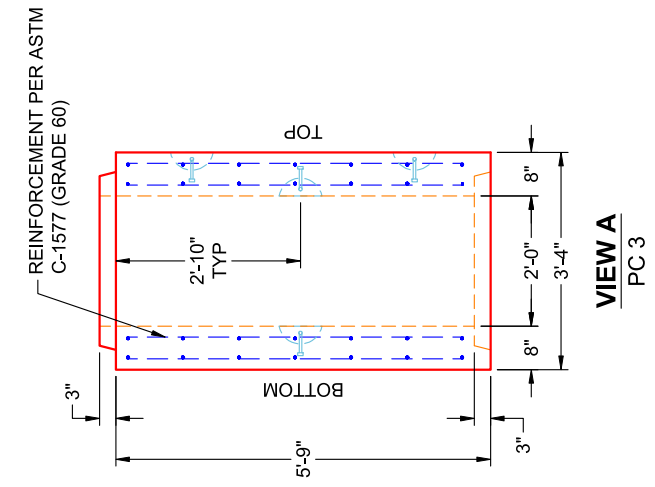
END VIEW TYPICAL



VIEW B PC 3



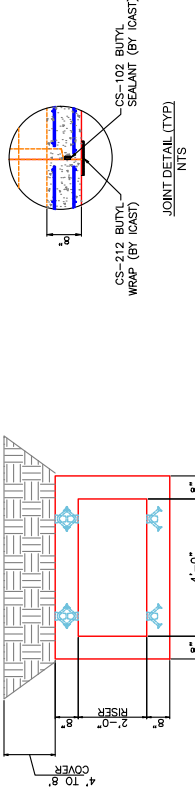
PLAN VIEW PC 3



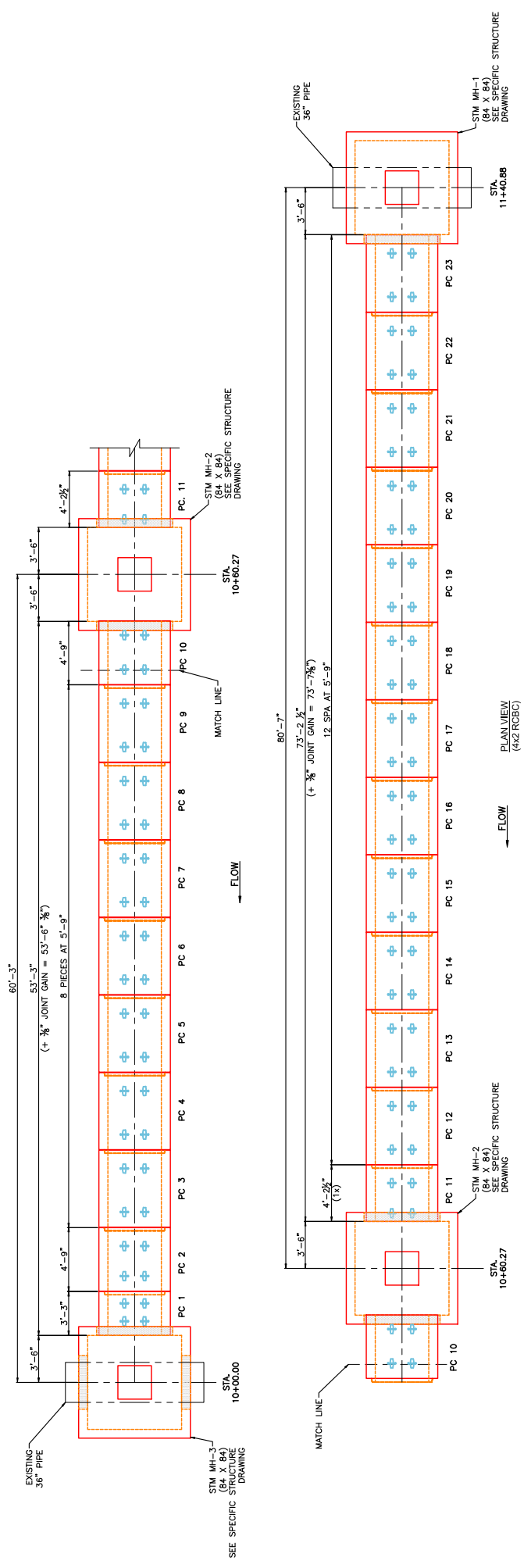
VIEW A PC 3

- GENERAL NOTES:**
1. MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
 2. LOAD REQUIREMENTS: HL93
 3. REINFORCEMENT PER ASTM C-1577 (GRADE 60)
 4. COVER DEPTH: 4'-8"
 5. CONCRETE: 5,000 PSI AT 28 DAYS
 6. JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
 7. WEIGHT: 4' X 2' RCBC = 1,418 LBS / LF (5'-9" LONG SECTION = 8,152 LBS)

- NOTES:
1. BOX CULVERT IS DESIGNED PER ASTM C1577 & SECTION 714 OF THE INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES.
 2. JOINT STAMP NOT REQUIRED.
 3. WEEP HOLES NOT REQUIRED.
 4. LOAD REQUIREMENTS = HL93.
 5. COVER DEPTH = 4' TO 8'.
 6. CONCRETE: 5,000 PSI AT 28 DAYS.
 7. JOINT SEALANT = 1" BUTYL MASTIC (CS 102).
 8. EXTERIOR JOINT WRAP = 12" WIDE CS212.
 9. REINFORCING PER ASTM C1577 (GRADE 60).
 10. WEIGHT: 4' X 2' RCBC = 1,418 LBS / LF
 11. 5'-9" LONG SECTIONS = 8,152 LBS
 12. 4'-5" LONG SECTIONS = 6,741 LBS
 13. 3'-3" LONG SECTION = 4,938 LBS



TYP. COVER DETAIL
NTS



REVISIONS		SUBMITTAL DRAWING: 4 X 2 RCBC LAYING PLAN			
REV. A	??/??/??	?	CUSTOMER: BOWEN ENGINEERING CORPORATION		
			PROJECT: ALCOA OUTFALL		
			STRUCTURE I.D.: BC 4 X 2		
			QUOTE/ORDER NO: 25-2073		
			CHECK: B. SMITH		
			DRAWN BY: J. HORSLEY		
			DATE: 01/09/26		
			SCALE: NTS		
			PG. 1 of 1		

