

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

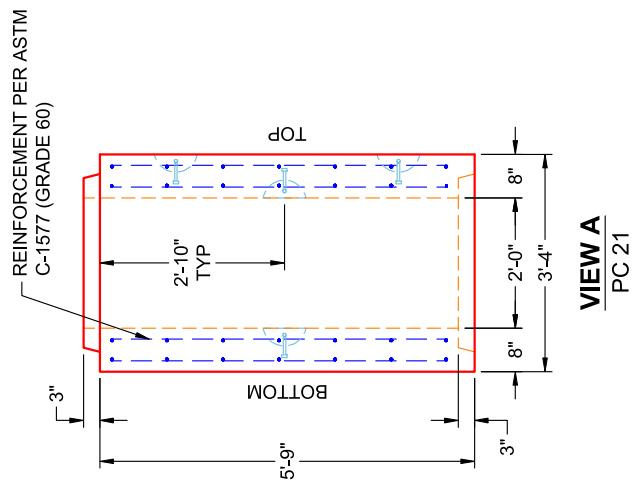
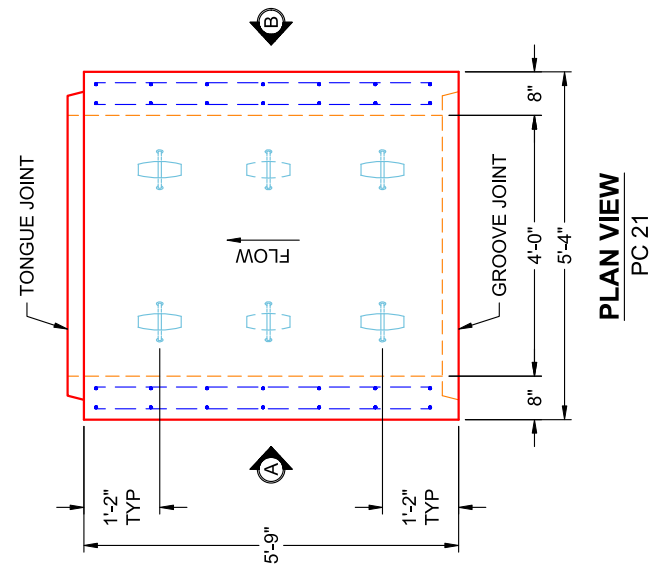
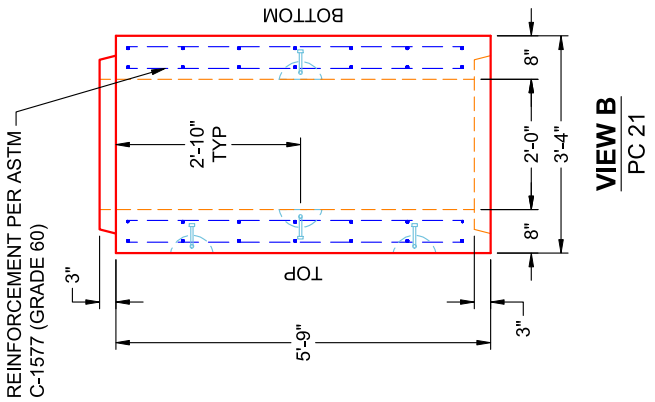
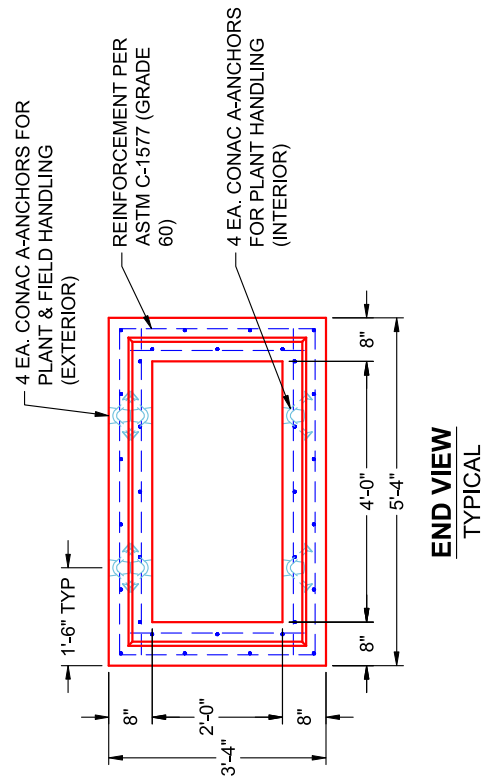
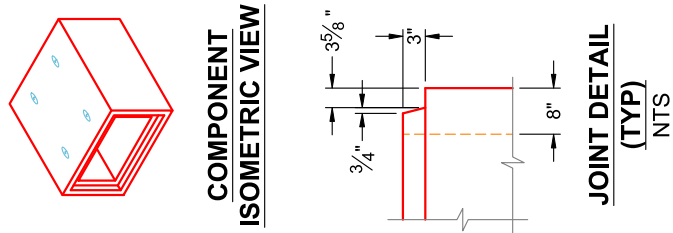
PC: A. Chambers  
TECH: J. Horsley  
Plant: 100



Structure ID: **BC 4 x 2 (PC 21)**

Spec: Box Culvert  
Type: Box Culvert (08W/08F/08T) No Haunch  
Size: 48" x 24"

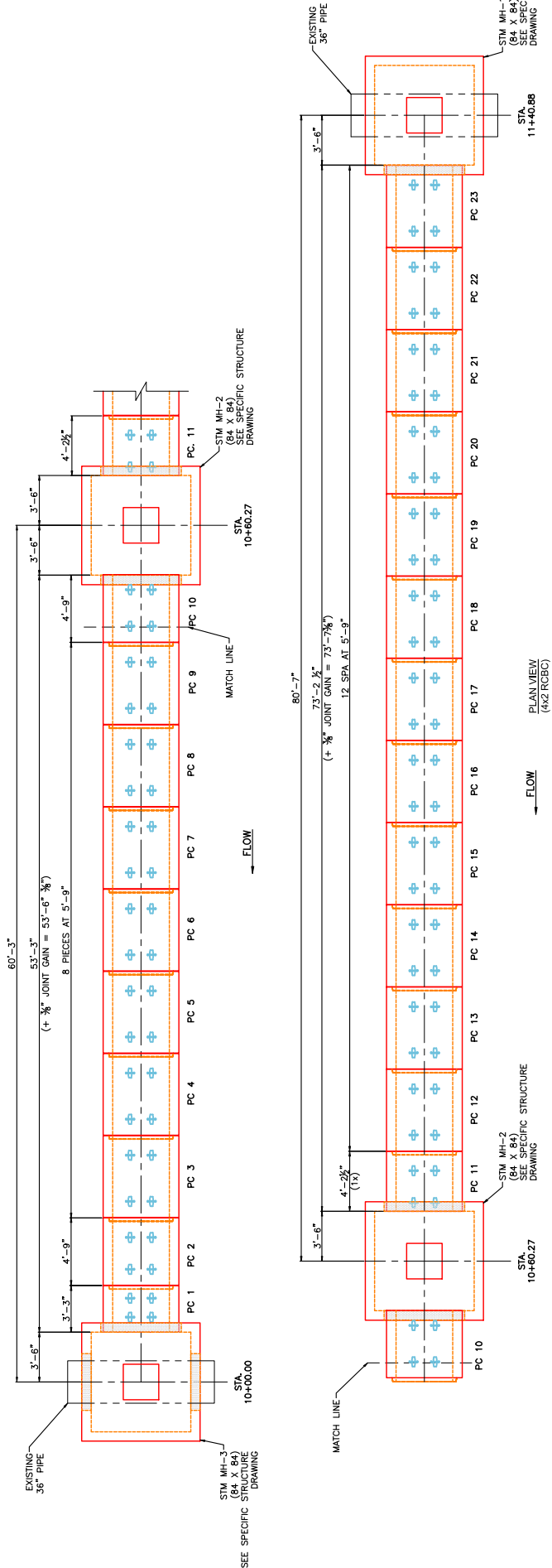
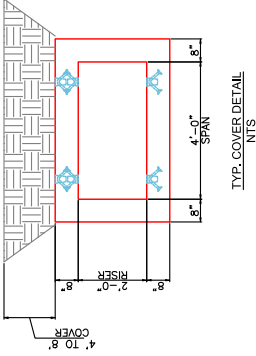
Rim: 5.75'  
Invert: 5.75'  
Rim to Invert: 0'  
Sump: 0"  
Floor (Top): 0"  
Floor Height: 0"  
Floor (Bot): 0"  
Overall Height: 5.75'  
Slack: 0"



- 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



REVISIONS

REV. A ??/??/?? ?



SUBMITTAL DRAWING: 4 X 2 RCBC LAYING PLAN  
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  
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