

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 11)**

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

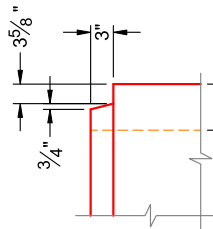
Rim: 4.208'
Invert: 4.208'
Rim to Invert: 0'

Sump: 0"
Floor (Top): 0'
Floor Height: 0"

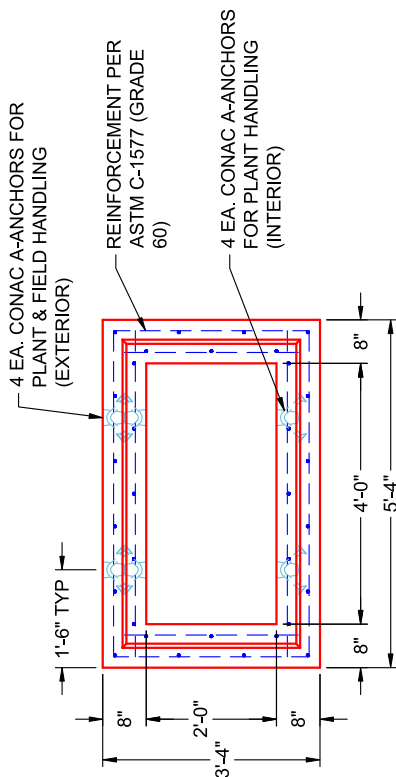
Floor (Bot): 0'
Overall Height: 4.208'
Slack: 0"



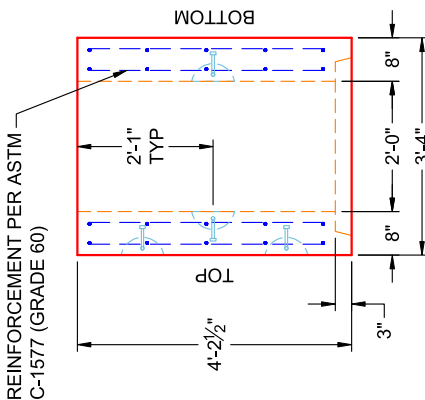
**COMPONENT
ISOMETRIC VIEW**



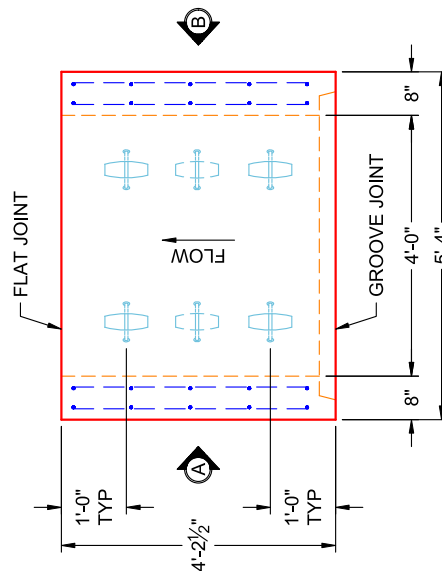
**JOINT DETAIL
(TYP)
NTS**



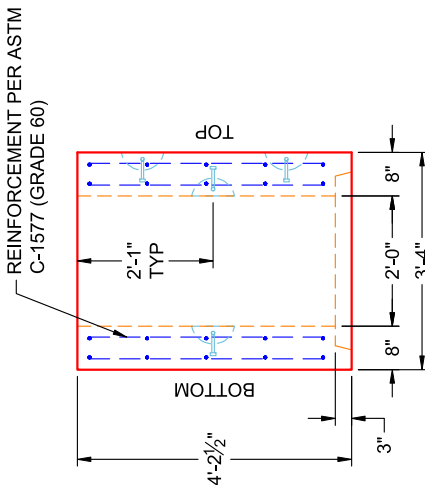
**END VIEW
TYPICAL**



**VIEW B
PC 11**



**PLAN VIEW
PC 11**



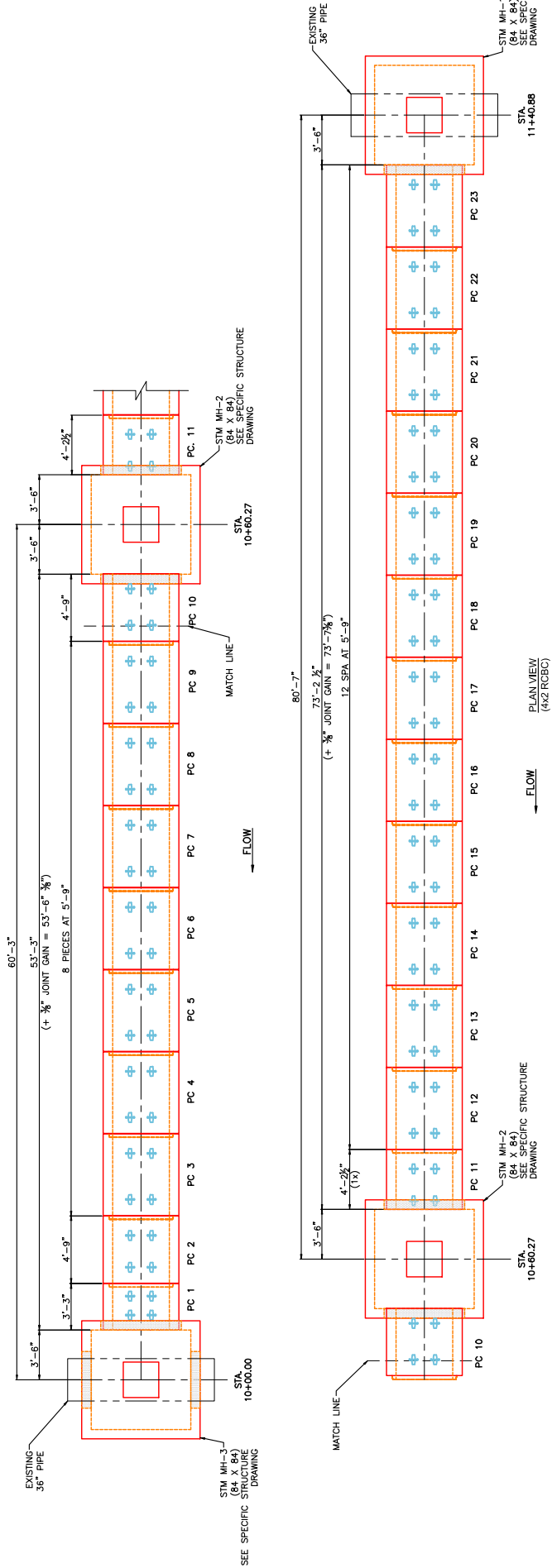
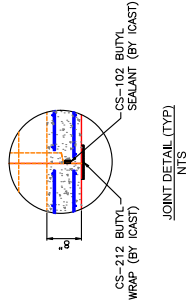
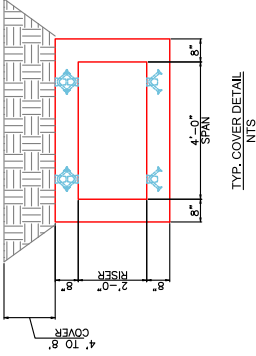
**VIEW A
PC 11**

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 (4'-2 1/2" LONG SECTION = 5,967 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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