Job Name: 26-1508BC - Ferdinand State Park Culverts Replacement Job Location: Ferdinand, IN Contractor: WB Koester Construction, LLC	Plant: 100 9/17/2026 12:10:13 PM	Tech: Jared - F PC: E. Bradley	

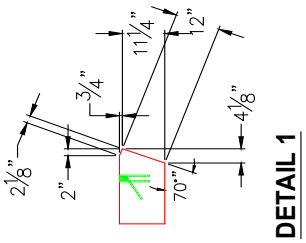
Structure ID: CV-3 WWA

P1 CVBS **WINGWALL - 135" X 168" WINGWALL - 135" x 168"**

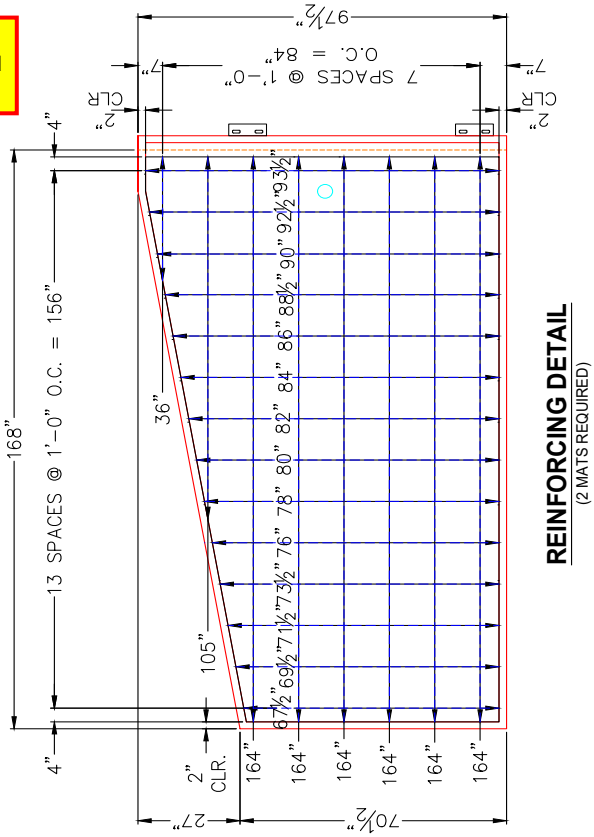
NOTE:
This drawing is for reference only, PE Stamped drawings shall be followed for all details.

NOTES:

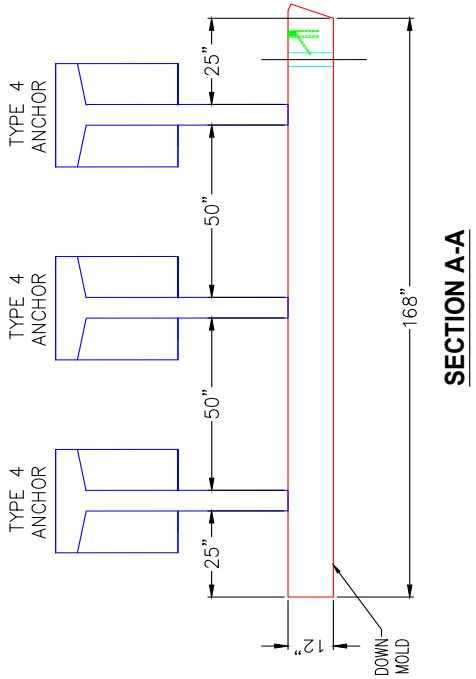
1. WINGWALL IS DESIGNED PER AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORATION OFFICIAL SPECIFICATION IN ACCORDANCE W/ AASHTO LFRD BRIDGE DESIGN SPECIFICATION 9TH EDITION.
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. LOAD REQUIREMENTS = EARTH PRESSURE + LL SURCHARGE
4. WINGWALL FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH FACTORED BEARING RESISTANCE : 2500 PSF.
5. REINFORCING: PER ATTACHED CALCULATIONS.
6. 2" CLEAR COVER OVER ALL REINFORCING.
7. WEIGHT = 14,500 LBS



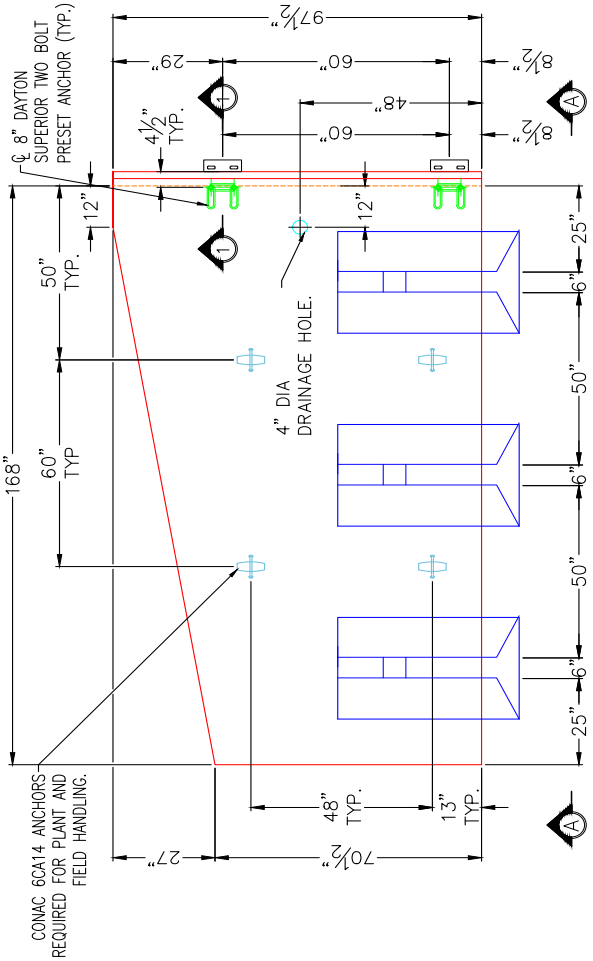
DETAIL 1



REINFORCING DETAIL
(2 MATS REQUIRED)
(2" CLR. TYPICAL)



SECTION A-A



PLAN VIEW
(VIEW FROM BACK OF PANEL)

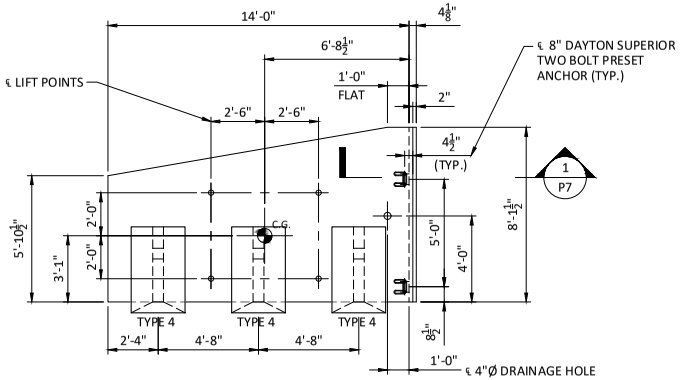
Job Name: 26-1508BC - Ferdinand State Park Culverts Replacement
Job Location: Ferdinand, IN
Contractor: WB Koester Construction, LLC

Structure ID: CV-3 WWA

P1 CVBS

WINGWALL - 135" X 168" WINGWALL - 135" x 168"

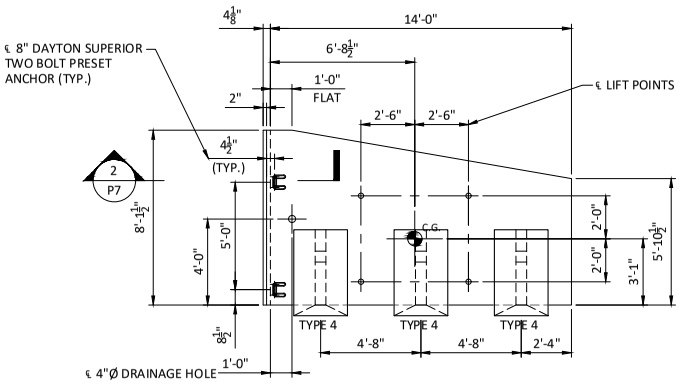
Plant: 100
9/17/2026 12:10:13 PM
Tech: Jared - F
PC: E. Bradley



ELEVATION - WINGWALL WWA

TOTAL WEIGHT = 10.1 TONS

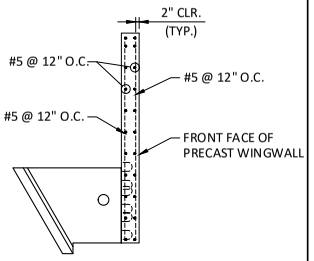
PROVIDE 4"Ø x 14' PERFORATED DRAIN
W/ELBOW, END CAP AND FILTER FABRIC SOCK
PROVIDE (1) 9' LONG x 2' WIDE STRIP OF FILTER FABRIC



ELEVATION - WINGWALL WWB

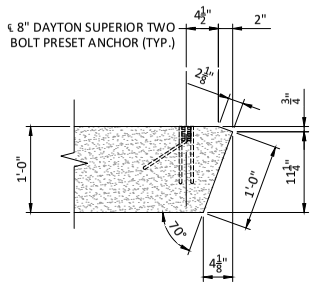
TOTAL WEIGHT = 10.1 TONS

PROVIDE 4"Ø x 14' PERFORATED DRAIN
W/ELBOW, END CAP AND FILTER FABRIC SOCK
PROVIDE (1) 9' LONG x 2' WIDE STRIP OF FILTER FABRIC

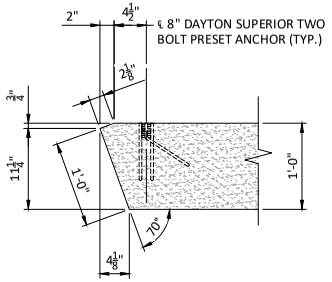


REINFORCING SECTION

NOT TO SCALE



SECTION 1 / P7



SECTION 2 / P7

DESIGN NOTES

1. ALL EDGES TO HAVE ¾" CHAMFER
2. F'c = 5,000 PSI
3. WALL PANEL WILL NOT HANG LEVEL, ADJUST LIFTING CABLES AS REQUIRED
4. ELEVATION LOOKING AT BACK FACE OF WINGWALL

TOMMY NICHOLSON REGISTERED No. PE 11100281 STATE OF INDIANA PROFESSIONAL ENGINEER

09/01/2026

UNCOATED
REINFORCING

FOR APPROVAL

	DATE	DESCRIPTION	ENG
7			
6			
5			
4			
3			
2			
1			

FERDINAND STATE FOREST CULVERT CV-3

LOCALE: DUBOIS COUNTY STATE: IN

PROVIDED BY: ICAST
981 W 7TH STREET
BEAVER DAM, KY 42320
270.363.2238

DESIGNED BY: PRETEK GROUP
P.O. BOX 351
BELLBROOK, OH 45305
800.241.0925

PROJECT NUMBER: 26-355
DATE: 8/31/2026
DESIGNED BY: KDK
DRAWN BY: SP
CHECKED BY: TEN

P7