



PROJECT NO. 092 COUNTY 13 SHEET  
**FAIR # VERMILION 96 57**  
 REVISIONS

THE EXISTING HEADWALL AND TOP SLAB SHALL BE REMOVED TO A LINE PERPENDICULAR TO THE CENTER LINE OF THE EXISTING CULVERT AND APPROXIMATELY 3'-2\"/>

REMOVE SUFFICIENT PORTIONS OF THE WINGWALLS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 50-03, TO OBTAIN MINIMUM CLEARANCE FOR THE PROPOSED EMBANKMENT SLOPES

NOTE: EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION ANCHOR AND 1/4\"/>

CLASS X CONCRETE SHALL BE USED THROUGHOUT. AT LEAST SIX FEET OF BARREL SHALL BE FORMED MONOLITHICALLY WITH WING WALLS. EXPOSED EDGES SHALL BE BEVELED 3/4\"/>

SECTION A-A  
 Max Soil Pressure Under Ftg. = 2523 P.S.F.  
 Pa = 20,000 psf  
 Pw = 1450 psf Barrel  
 Pw = 1000 psf Wings  
 W = 80 psf  
 Y = 75 psf footing  
 b = 10  
 Loading IS 20-M

**BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH
a	83	7	8'-10"
a <sub>2</sub>	7	4	4'-0"
b	68	5	6'-0"
b <sub>1</sub>	68	5	9'-9"
d	8	4	4'-6"
h	17	5	27'-0"
h <sub>1</sub>	13	5	25'-9"
h <sub>2</sub>	14	5	25'-9"
h <sub>3</sub>	9	4	14'-3"
h <sub>4</sub>	13	5	10'-9"
h <sub>5</sub>	9	4	7'-0"
V	29	4	5'-0"
V <sub>1</sub>	22	4	6'-3"
W	7	5	18'-9"
W <sub>1</sub>	7	5	17'-0"
Z	34	5	8'-1"
CLASS X CONCRETE CU. YDS.			284
REINFORCEMENT BAR LBS.			4,700
EXPANSION BOLTS & B EACH			18

**CULVERT EXTENSION LEFT STA. 627+32**

NOTE: ALL BARS SHALL BE ROUNDED AS PER A305-49 THE SIZE NO. IS THE NO. OF INCHES IN THE NOMINAL DIAMETER.

DESIGNED BY E.A.D. 7-10-72  
 CHECKED BY M.R.S. 8-25-72

See Reinf. Bars from 4880 to 4900 3-12-75 A.S.J.