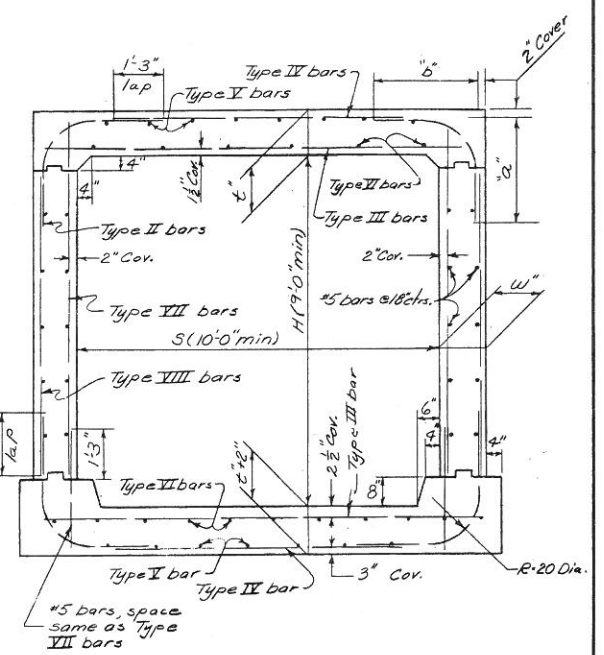
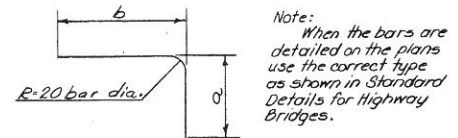


DATA FOR CULVERTS SECTION A-A 3

Height of Fill in Feet & Inches	Type I Bar (Nom.) Size & Spacing		Type II Bar (Nom.) Size & Spacing		Type III Bar (Nom.) Size & Spacing		Type IV Bar (Nom.) Size & Spacing		Type V Bar (Nom.) Size & Spacing		Type VI Bar (Nom.) Size & Spacing		Type VII Bar (Nom.) Size & Spacing		Type VIII Bar (Nom.) Size & Spacing	
	12" x 12"	12" x 18"	12" x 24"	12" x 30"	12" x 36"	12" x 42"	12" x 48"	12" x 54"	12" x 60"	12" x 66"	12" x 72"	12" x 78"	12" x 84"	12" x 90"	12" x 96"	12" x 102"
0'-3"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4'-6"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
7'-9"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
10'-12"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
13'-15"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
16'-18"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
19'-21"	12/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
0'-3"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4'-6"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
7'-9"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
10'-12"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
13'-15"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
16'-18"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
19'-21"	12/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
0'-3"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4'-6"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
7'-9"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
10'-12"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
13'-15"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
16'-18"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
19'-21"	12/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
0'-3"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4'-6"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
7'-9"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
10'-12"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
13'-15"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
16'-18"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
19'-21"	12/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
0'-3"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
4'-6"	9/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
7'-9"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
10'-12"	10/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
13'-15"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
16'-18"	11/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
19'-21"	12/12	5/8	2-7/8	3-1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8



PROJECT ENGINEER J. J. S. Main
 IN CHARGE OF J. J. S. Main
 DESIGNED BY
 DESIGN CHECKED BY
 DETAILED BY W. J. S. Main
 DETAIL CHECKED BY H. E. P. H.

APPROVED Nov. 22, 1976
Malcolm D. Graham
 MALCOLM D. GRAHAM DEPUTY CHIEF ENGINEER
 (Facilities Design)

APPROVED Nov 18, 1976
E. V. Hourigan
 E. V. HOURIGAN DEPUTY CHIEF ENGINEER