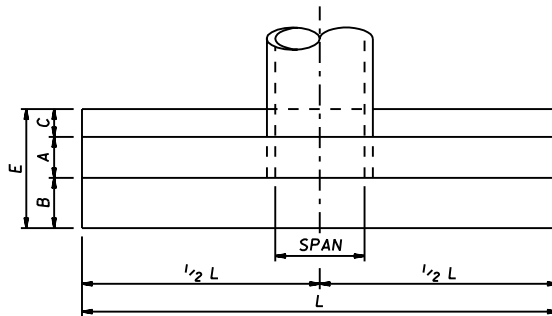
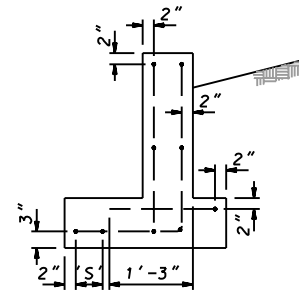
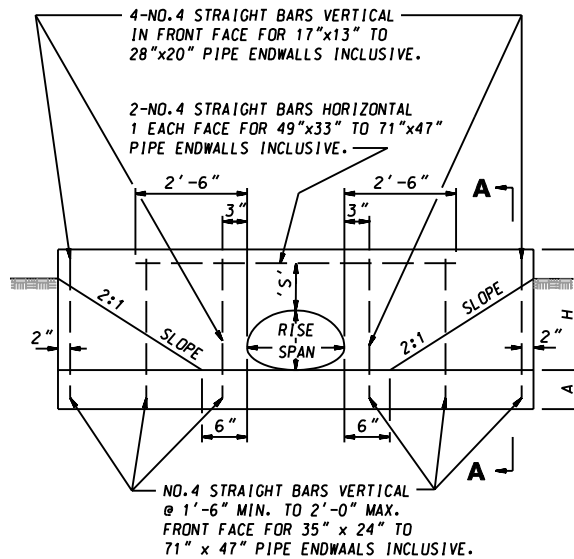




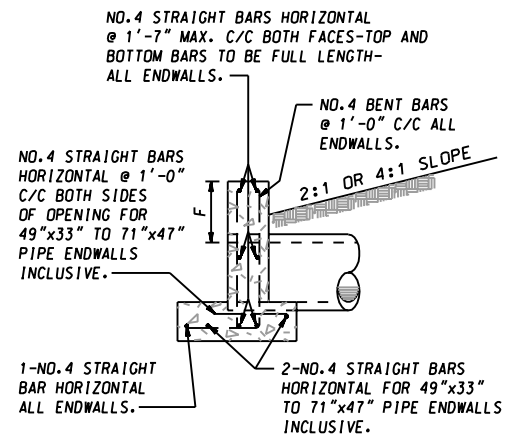
PLAN



DISPOSITION OF BARS DETAIL



ELEVATION



SECTION A-A

QUANTITIES FOR ESTIMATING PURPOSES ONLY

OPENING		DIMENSIONS								QUANTITIES	
D	AREA	A	B	C	E	F	H	L	CONC.	STEEL	
INCHES	SO. FT.								C. Y.	LBS.	
17X13	1.23	9"	6"	6"	1'-9"	9"	1'-10"	6'-3"	0.54	38	
21X15	1.77	9"	6"	6"	1'-9"	9"	2'-0"	9'-6"	0.98	56	
24X18	2.40	9"	6"	6"	1'-9"	9"	2'-3"	9'-6"	0.96	55	
28X20	3.14	9"	6"	6"	1'-9"	9"	2'-5"	9'-6"	0.96	55	
35X24	4.91	9"	14"	6"	2'-5"	12"	2'-9"	13'-8"	1.98	96	
42X29	7.07	9"	14"	6"	2'-5"	12"	3'-2"	13'-8"	1.92	95	
49X33	9.62	12"	16"	10"	3'-2"	12"	3'-9"	17'-11"	4.34	186	
57X38	12.57	12"	16"	10"	3'-2"	12"	4'-2"	17'-11"	4.73	186	
64X43	15.90	12"	20"	12"	3'-8"	12"	4'-7"	21'-9"	6.27	243	
71X47	19.64	12"	20"	12"	3'-8"	12"	4'-11"	21'-9"	6.05	243	

'S' DISTANCES

4" FOR 17" x 13" TO 24" x 18" INCLUSIVE.
6" FOR 28" x 20" TO 42" x 29" INCLUSIVE.
8" FOR 49" x 33" TO 71" x 47" INCLUSIVE.

GENERAL NOTES

SPECIFICATIONS: LATEST S.H.A.
CONCRETE SHALL BE MIX NO. 2
REINFORCING: DEFORMED STEEL BARS NO. 4
CHAMFER: ALL EXPOSED EDGES 1"x1" OR AS DIRECTED.

SPECIFICATION 305	CATEGORY CODE ITEMS										
APPROVED <i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT											
SHA State Highway Administration	<table> <tr> <td>APPROVAL • SHA REVISIONS</td><td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td></tr> <tr> <td>APPROVAL 8-28-86</td><td>APPROVAL 12-10-86</td></tr> <tr> <td>REVISED 10-1-01</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 8-28-86	APPROVAL 12-10-86	REVISED 10-1-01	REVISED	REVISED	REVISED	REVISED	REVISED
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REVISED	REVISED										

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD TYPE C ENDWALL
METAL PIPE ARCH

STANDARD NO. MD 355.01