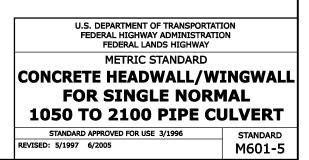


			:	STATE		PROJECT		SHEET NUMBER	
)TE	:								
is de	etail applie	es for norn	nal crossir	ngs an	d ske	ews up to	15°.		
n shallow fill, where headwall is 600 mm or less below oulder line, construct the headwall parallel to line and ade of the shoulder.									
o not allow top of wingwall to project above fill slope, ditch oppe or shoulder.									
ncrete shall conform to Section 601. Chamfer all exposed lges 20 mm and finish all exposed surfaces with a Class 1 dinary surface finish. Joint filler shall conform to AASHTO 213 and shall be subsidary to concrete quantity.									
ll end of concrete pipe may replace bevel at inlet headwall.									
antities shown in table are for one headwall and two ngwalls and are based on CMP. Concrete and steel antities shown will be used as basis for final payment for adwall/wingwalls constructed according to this standard.									
earance for reinforcing steel is 50 mm unless shown herwise.									
nchor bolts shall conform to ASTM A307. Galvanize bolts d nuts to conform to ASTM A153. Anchor bolts shall be bsidary to reinforcing steel quantity.									
mensions without units are millimeters.									
NS	SIONS	AND Q	JUANT	ITI	ES				
	D (Diá	ameter d	of pipe c	ulver	t)				
0	1350	1500	1650	18	_	1950	210	0	
80	1980	2135	2285	24	40	2590	274:	5	
0	2120	2275	2425	25	80	2730	288:	5	
80	2330	2485	2635	27	90	2940	309:	5	
5	1450	1580	1710	18	45	1975	211	0	
80	2505	2735	2960	31	95	3420	365:	5	
80	2895	3160	3420	36	90	3950	422	0	
9	7.7	8.5	9.4	10	.2	11.1	12.3	<i>i</i>	
4	371	398	443	47	71	522	567	·	
80	1980	2135	2285	24	40	2590	274		
0	2120	2275	2425	25	80	2730	288.	5	
80	2330	2485	2635	27	90	<i>29</i> 40	309.	5	
5	1925	2110	2280	24	60	2635	281.	5	
<i>0</i>	3340	3650	3950	42	60	4560	487	0	



12.9

14.0

15.2

NO SCALE

9.6

10.7

11.8