

Pipe Dia. (nom.)	A	B	H	Reinforcing Steel No. 4 (No. 13) bars						Concrete 2 End Secs. cu. yds. (m ³)	Reinf. Bars 2 End Secs. lbs. (kg)
				a	b	b ₁	c	v	v ₁		
12 (300)	18 (460)	28 (710)	18 (460)	4 @ 24 4 @ (610)	4 @ 21 4 @ (540)	4 @ 31 4 @ (790)	2 @ 5'-9" 2 @ (1.75 m)	4 @ 30 4 @ (760)	4 @ 21 4 @ (530)	0.59 (0.45)	40 (18.1)
15 (375)	24 (570)	31 (780)	21 (535)	4 @ 27 4 @ (690)	4 @ 27 4 @ (690)	4 @ 39 4 @ (990)	2 @ 7'-0" 2 @ (2.13 m)	4 @ 33 4 @ (840)	4 @ 24 4 @ (610)	0.77 (0.59)	40 (18.1)
18 (450)	27 (685)	34 (860)	24 (610)	6 @ 30 6 @ (760)	8 @ 30 8 @ (760)	4 @ 3'-6" 4 @ (1.07 m)	2 @ 8'-0" 2 @ (2.44 m)	4 @ 36 4 @ (910)	4 @ 27 4 @ (690)	0.92 (0.70)	60 (27.2)
24 (600)	36 (915)	3'-4" (1.01 m)	30 (760)	6 @ 36 6 @ (910)	8 @ 39 8 @ (990)	6 @ 4'-3" 6 @ (1.2 m)	2 @ 10'-6" 2 @ (3.2 m)	8 @ 3'-6" 8 @ (1.07 m)	4 @ 30 4 @ (760)	1.32 (1.01)	90 (40.8)
30 (750)	3'-9" (1.14 m)	3'-10" (1.16 m)	36 (915)	8 @ 3'-6" 8 @ (1.07 m)	12 @ 4'-0" 12 @ (1.22 m)	6 @ 5'-0" 6 @ (1.52 m)	2 @ 12'-6" 2 @ (3.81 m)	8 @ 4'-0" 8 @ (1.22 m)	4 @ 36 4 @ (910)	1.79 (1.37)	120 (54.4)
36 (900)	4'-6" (1.37 m)	4'-4" (1.32 m)	3'-6" (1.07 m)	10 @ 4'-0" 10 @ (1.22 m)	12 @ 4'-9" 12 @ (1.45 m)	6 @ 5'-9" 6 @ (1.75 m)	2 @ 15'-0" 2 @ (4.57 m)	8 @ 4'-6" 8 @ (1.37 m)	8 @ 3'-6" 8 @ (1.07 m)	2.33 (1.85)	150 (68.0)
48 (1200)	6'-0" (1.83 m)	5'-4" (1.62 m)	4'-6" (1.37 m)	12 @ 5'-0" 12 @ (1.52 m)	16 @ 6'-3" 16 @ (1.9 m)	8 @ 7'-3" 8 @ (2.21 m)	2 @ 19'-3" 2 @ (5.87 m)	12 @ 5'-0" 12 @ (1.52 m)	8 @ 3'-6" 8 @ (1.07 m)	3.60 (2.80)	230 (104.3)

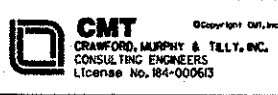
DESIGN DATA

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = L:\LAKECO\122481\Draw\CADD_Sheets\Construction\detail_6_vers1.dwg



USER NAME = jstedig
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 12/18/2012

DESIGNED - MNB
 DRAWN - MNB
 CHECKED - CMC
 DATE - 10/22/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE END SECTIONS WITH PARALLEL WINGWALLS FOR
 PIPE CULVERTS 12" THRU 48" DIA. AT RIGHT ANGLES WITH ROADWAY

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
0192	06-00153-07-CH	LAKE	120

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 6