



CURRENT DATE: 10-16-2006  
 CURRENT TIME: 17:36:04

FILE DATE: 10-16-2006  
 FILE NAME: ECCO

PERFORMANCE CURVE FOR CULVERT 1 - 4( 3.00 (ft) BY 4.00 (ft)) ICMP

DIS-CHARGE FLOW (cfs)	HEAD- WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	1288.00	0.00	0.00	0-NF	0.00	0.00	0.00	0.00	0.00	0.00
45.50	1289.68	1.32	1.68	3-M2t	1.98	0.76	0.83	0.83	4.58	2.45
91.00	1290.74	2.10	2.74	3-M2t	4.00	1.20	1.24	1.24	6.16	3.11
136.50	1291.75	2.79	3.75	2-M2c	4.00	1.56	1.56	1.56	7.46	3.55
182.00	1292.99	3.39	4.99	2-M2c	4.00	1.88	1.88	1.83	8.42	3.90
198.00	1293.60	3.60	5.60	2-M2c	4.00	1.99	1.99	1.92	8.71	4.00
243.97	1295.58	4.31	7.58	3-M2t	4.00	2.28	2.30	2.30	9.56	4.42
245.21	1295.65	4.33	7.65	3-M2t	4.00	2.29	2.50	2.50	8.98	4.64
245.38	1295.71	4.34	7.71	3-M2t	4.00	2.29	2.69	2.69	8.50	4.83
244.58	1295.77	4.32	7.77	3-M2t	4.00	2.29	2.86	2.86	8.09	5.00
242.90	1295.81	4.29	7.81	3-M2t	4.00	2.28	3.03	3.03	7.75	5.16

El. inlet face invert 1288.00 ft El. outlet invert 1287.70 ft  
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

\*\*\*\*\* SITE DATA \*\*\*\*\* CULVERT INVERT \*\*\*\*\*  
 INLET STATION 0.00 ft  
 INLET ELEVATION 1288.00 ft  
 OUTLET STATION 100.00 ft  
 OUTLET ELEVATION 1287.70 ft  
 NUMBER OF BARRELS 4  
 SLOPE (V/H) 0.0030  
 CULVERT LENGTH ALONG SLOPE 100.00 ft

\*\*\*\*\* CULVERT DATA SUMMARY \*\*\*\*\*  
 BARREL SHAPE USER DEFINED  
 BARREL SPAN 3.00 ft  
 BARREL RISE 4.00 ft  
 BARREL MATERIAL STEEL OR ALUMINUM  
 BARREL MANNING'S n 0.035 FOR SIDES AND TOP  
 0.035 FOR BOTTOM  
 INLET TYPE CONVENTIONAL  
 INLET EDGE AND WALL HEADWALL  
 INLET DEPRESSION NONE

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