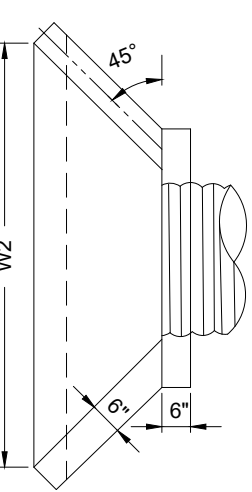
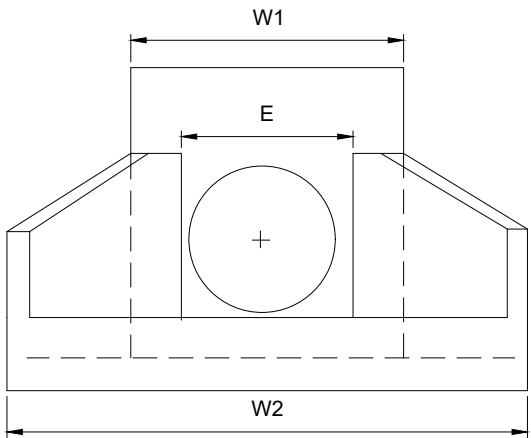


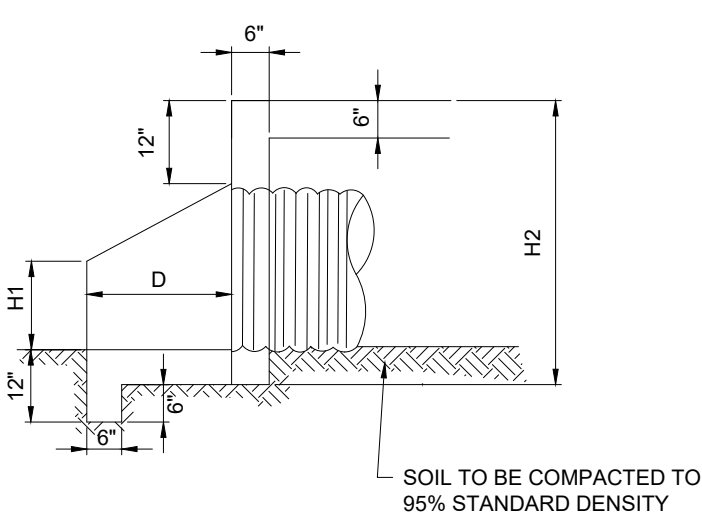
514 - Precast Concrete Headwall Systems.dwg March 17, 2026 - 3:11pm



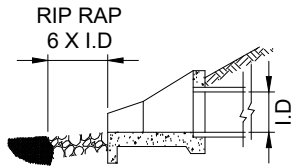
PLAN VIEW



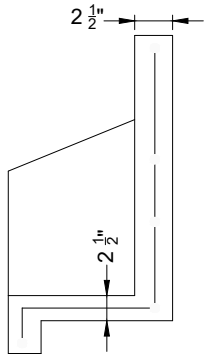
FRONT ELEVATION



SIDE VIEW

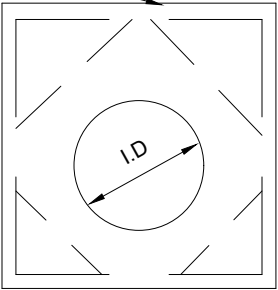


RIP - RAP - DETAIL

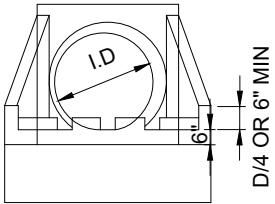


BASE & WALL SECTION

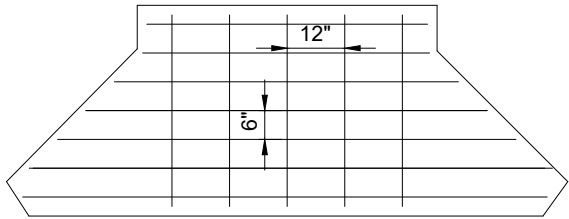
NOTE: HEADWALLS OVER 30" TO HAVE STEEL ON 6" CENTERS EACHWAY (2" CLEARANCE TYP.)



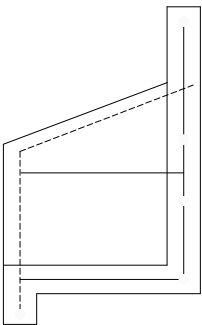
WALL SECTION



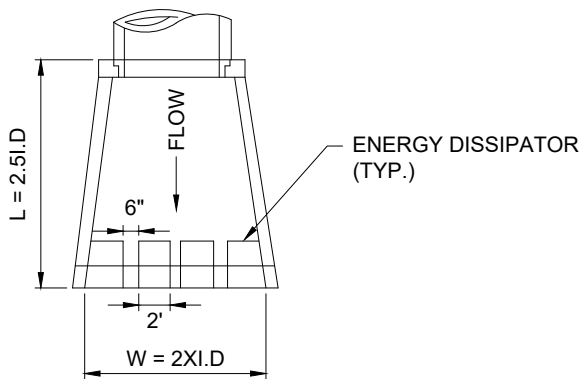
FRONT ELEVATION



BASE SECTION
N.T.S.



WING SECTION



PLAN VIEW

OUTLET HEADWALL

NOTES:

1. ALL CONC. SHALL BE 4000 P.S.I.
2. REINFORCEMENT STEEL SHALL BE INTERMEDIATE GRADE.
3. CHAMFER ALL EXPOSED EDGES.
4. ENERGY DISSIPATOR REQ. ON PIPES OVER 30" DIA.
5. IF EXIT VELOCITY >6 F.P.S. RIP RAP TO BE PLACED AT OUTLET, LENGTH TO BE 6xD, WIDTH TO BE 3xD.
6. FOR PIPES LARGER THAN 54" USE FULTON CO. STD. #515 OR G.D.O.T. STD. #1125.
7. AN ALTERNATE DESIGN FOR THE ENERGY DISSIPATOR WOULD BE ACCEPTABLE ONCE APPROVED BY FULTON COUNTY.

TABLE 514-1 STONE & FILTER MATERIAL: RIP RAP		
VELOCITY	STONE SIZE	FILTER MATERIAL
<6 FT/SEC 6 TO 8 FT/SEC 8 TO 10 FT/SEC	10 - 50 LBS. 20 - 100 LBS. 25 - 250 LBS.	1.5' 3" 4.5"
STONE OR DURABLE MATERIAL WEIGHING 150 LBS/FT^3		

TABLE 514-2 HEADWALL DIMENSION FOR METAL PIPE*								
INSIDE DIA. OF PIPE	W1	W2	H1	H2	D	E	WT	SQ. FT. IN BASE AREA
18"	3' - 2"	4' - 3"	1' - 3"	3' - 2"	1' - 3"	1' - 9"	1,550	7.34
21", 24"	3" - 8"	5' - 3"	1' - 9"	3' - 8"	1' - 6"	2' - 7"	2,100	9.9
30"	4' - 2"	6' - 5"	2' - 0"	4' - 2"	1' - 10"	2' - 9"	2,850	13.5
36"	4' - 8"	7' - 7"	2' - 4"	4' - 8"	2' - 2"	3' - 3 "	3,700	17.65
42", 48"	5' - 8"	10' - 1"	3' - 3"	5' - 8"	2' - 11"	4' - 3"	5,600	28.6
54"	6' - 8"	11' -11"		6' - 8"	3' - 4"	5' - 3"	7,500	35.6

FULTON COUNTY STANDARD DETAIL 514

PRECAST CONCRETE HEADWALL SYSTEMS
(INLET & OUTLET HEADWALLS)

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 02-18-2026



FULTON COUNTY PUBLIC WORKS
141 PRYOR ST. ATLANTA, GA. 30303
404-612-7400 FAX: 404-224-0498

DRAWING NO.

514