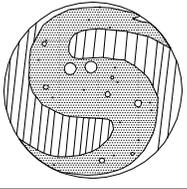
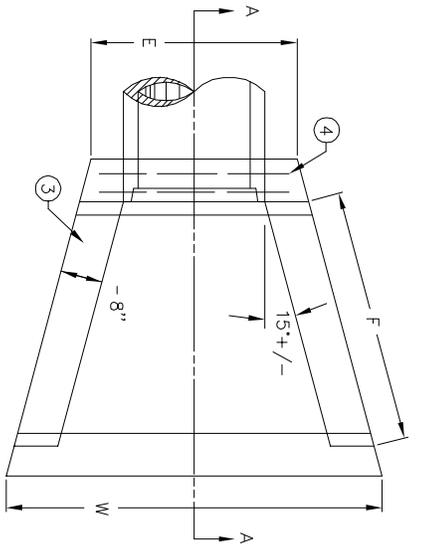


REVISION	BY	DATE

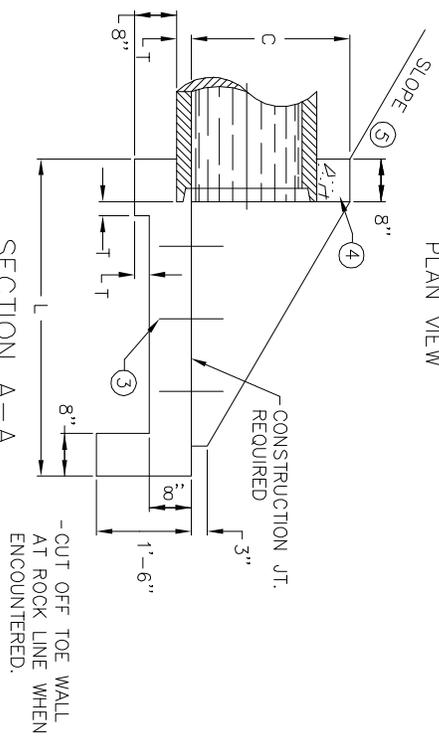


SANITATION DISTRICT NO. 1
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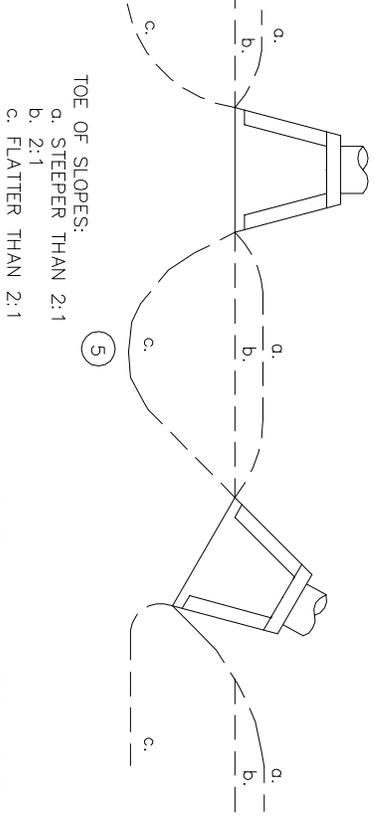
DATE: MAY 2010
 STANDARD DRAWING NO.: STM-16



PLAN VIEW



SECTION A-A



TOE OF SLOPES:
 a. STEEPER THAN 2:1
 b. 2:1
 c. FLATTER THAN 2:1

SLOPED & FLARED HEADWALLS (12" - 27" PIPE)

(STM-16)

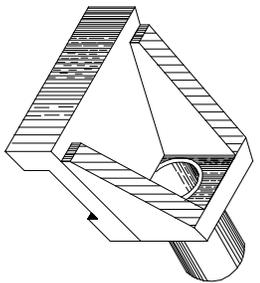
N.T.S.

(REFERENCE KYTC STANDARD DRAWING RDH-020)

PIPE DIA. OR EQUIV. DIA.	SHAPE ⑨	DIMENSIONS							CLASS A CONC	REINF STEEL LBS.
		C	E	F	L	W	T	C. Y.		
12"	○	1'-9"	2'-6"	2'-3"	2'-6"	4'-0"	2"	0.58	7	
15"	○	2'-0"	2'-9"	2'-9"	4'-0"	4'-9"	2 1/4"	0.75		
	○	1'-9"	3'-0"	2'-6"	3'-6"	4'-9"	2 1/4"	0.68		
18"	○	2'-3"	3'-0"	3'-6"	4'-6"	5'-3"	2 1/2"	0.93	8	
	○	2'-0"	3'-6"	3'-0"	4'-0"	5'-6"	2 3/4"	0.89		
21"	○	2'-6"	3'-3"	4'-0"	5'-0"	6'-0"	1.14	9		
	○	2'-3"	3'-0"	3'-6"	4'-6"	6'-0"	1.07			
	○	2'-9"	3'-6"	4'-6"	5'-6"	6'-6"	1.35			
24"	○	2'-6"	4'-0"	4'-0"	5'-0"	6'-9"	3 1/4"	1.30	9	
	○	3'-0"	3'-9"	5'-0"	6'-0"	7'-0"	1.57			
27"	○	2'-9"	4'-6"	4'-3"	5'-3"	7'-3"	3 1/2"	1.51	10	
	○	3'-0"	5'-0"	5'-3"	6'-3"	7'-3"	3 1/2"	1.51		

NOTES

- DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR ALTERNATE PIPE MATERIALS.
- REINFORCING STEEL : MINIMUM GRADE 40. BARS EVENLY SPACED.
- NO. 4 x 1'-0" DOWEL BARS.
- NO. 4 x (E DIMENSION MINUS 4") SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.
- VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
- WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.
- HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12" - 27" EQUIVALENT PIPE SIZES. SEE CURRENT KDOT STD. DWG. RDI-016, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.
- ENCLOSURE GRATE SHALL BE INSTALLED PER DETAIL STM-19 FOR PIPE SIZES 24 INCHES DIAMETER AND UNDER.



ISOMETRIC VIEW