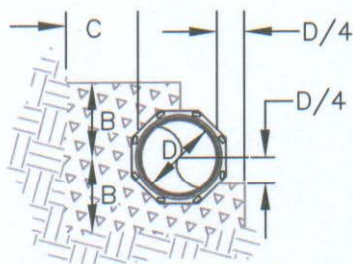
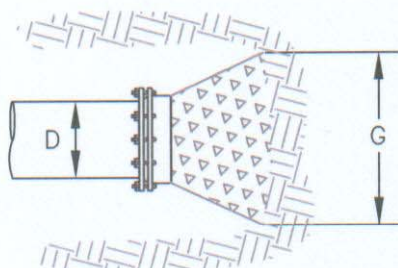


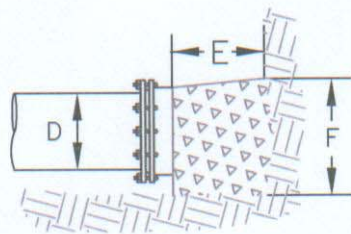
PLAN



SECTION A-A



PLAN



SECTION

BUTRESS FOR HORIZONTAL BENDS						
D		6"	8"	10"	12"	16"
1 32	A	6"	8"	10"	1'-0"	1'-4"
	B	7"	8"	9"	10"	1'-0"
	C	7"	7"	8"	8"	9"
1 16	A	9"	1'-0"	1'-6"	1'-9"	2'-3"
	B	7"	8"	9"	10"	1'-0"
	C	8"	9"	10"	11"	1'-2"
1 8	A	1'-3"	1'-8"	2'-1"	2'-6"	3'-4"
	B	7"	8"	9"	11"	1'-3"
	C	8"	9"	10"	11"	1'-2"
1 4	A	2'-0"	2'-6"	3'-0"	3'-6"	5'-0"
	B	6"	8"	1'-0"	1'-3"	1'-6"
	C	1'-10"	9"	1'-8"	1'-7"	1'-5"

BUTRESS FOR CAPS						
D	6"	8"	10"	12"	16"	20"
E	6"	8"	8"	10"	1'-0"	1'-4"
F	1'-0"	1'-4"	1'-8"	2'-0"	2'-8"	3'-3"
G	1'-5"	1'-11"	2'-5"	2'-10"	3'-9"	4'-9"

Notes:

1. All concrete to be MDOT SHA mix #1.(2500 p.s.i.)
2. Buttress dimensions shown are minimum. Dimensions are based upon soil bearing pressure of 3000 p.s.f. and static water pressure of 150 p.s.i. Where pressure exceeds 150 p.s.i. or where soil bearing pressure is less than 3000 p.s.f. special buttress design is required.
3. Concrete shall extend to undisturbed soil.



APPROVED

C.I.F.

C. I. FREDERICK JR., P.E.
CHIEF ENGINEER

DATE: 7/1/09

REVISIONS

DATE

INITIALS

6/18/09

J.E.C.

**ST. MARY'S COUNTY
METROPOLITAN COMMISSION
STANDARDS FOR PUBLIC WATER, SEWER
AND INCIDENTAL STRUCTURES**

**BUTRESSES FOR CAPS AND
HORIZONTAL BENDS**

STANDARD NO. G-2