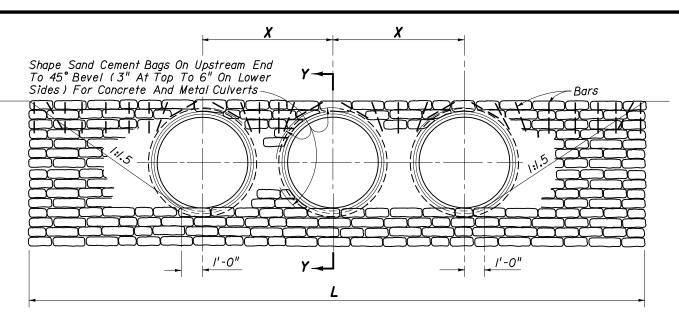


SECTION YY



Note: (I) For concrete and corrugated metal pipes. Concrete pipe shown.

- (2) The top row of riprap bags shall be secured by pinning, using #4 reinforcing bars 18 inches in length, as follows:

  - (a) The end bags shall be secured using two bars per bag, one vertical and one diagonal as shown.
    (b) The next to last bag on each end shall be secured with two bars vertically.
    (c) Bags located over the pipe shall be secured by a bar which is driven diagonally except that for concrete pipe two bars shall be used for single bags above the pipe.

    (d) Intermediate bags shall be secured with a single bar.

Bars shall be driven to one inch below the surface of the bag.

The cost of furnishing and installing the bars shall be included in the cost of the riprap.

## FRONT ELEVATION

				TABLE	E OF	DIM	MENSIC	DNS AN	D	QUA	NTITIES	F	0R	ONE EI	VDW/	ALL			
SIZE								ONE PIPE	CULVE	RTS	TWO PIPE	CULVE	RTS	THREE PIPE	CULVE	RTS	FOUR PIPE	CULVE	ERTS
0F	<i>H</i>	T	Α	В	С	F	X	,	RIPRA	AP CY	,	RIPRA	P CY	,	RIPR	AP CY	,	RIPRA	AP CY
PIPE									CP	CMP	L	CP	CMP		CP	CMP		CP	CMP
18"	2'-3"	/'-O"	4'-0"	0'-0"	0'-0"	l'-9"	2'-10"	8'-9"	1.2	1.2	//'-7 <b>"</b>	1.5	1.6	<i>14'</i> -5"	1.8	1.9	<i>1</i> 7'-3"	2.1	2.3
24"	2'-9"	2'-0"	2'-0"	2'-6"	0'-0"	l'-9"	3'-5"	10'-3"	2.4	2.5	13'-8"	3.0	3.2	<i>1</i> 7'-1"	<b>3.</b> 7	4.0	20'-6"	4.3	4.7
30"	3'-4"	2'-0"	2'-0"	3'-2"	0'-0"	l'-l0"	4'-3"	12'-0"	<b>3.3</b>	3.4	<i>16'-3"</i>	4.2	<b>4.</b> 5	20'-6"	5./	5.5	24'-9"	6.0	6.5
36"	3'-10"	2'-0"	2'-0"	3'-8"	0'-0"	l'-l0"	5'-/"	<i>13'-6"</i>	4.0	4.2	<i>18'-</i> 7"	5.2	5.7	23'-8"	6.3	6.9	28'-9"	7.4	8.2
<i>42</i> "	<i>4</i> '-5"	3'-0"	2'-0"	2'-0"	2'-4"	/'-//"	6'-0"	<i>15'-3"</i>	<b>6.4</b>	6.7	21'-3"	8.3	8.9	27'-3"	10.2	11.2	33'-3"	12.3	13.4
48"	4'-11"	3'-0"	2'-0"	2'-0"	2'-10"	/'-//"	6'-9"	<i>16'-9"</i>	7.7	8.1	23'-6"	10.0	10.8	30'-3"	12.3	13.5	37'-0"	<i>14.</i> 5	16.2
<i>54</i> "	5'-6"	3'-0"	2'-0"	2'-0"	3'-6"	2'-0"	7'-8"	<i>18'-6"</i>	9.5	10.1	26'-2"	12.4	13.5	33'-10"	15.3	17.0	41'-6"	18.2	20.4
60"	6'-0"	3'-0"	2'-0"	2'-0"	4'-0"	2'-0"	8'-6"	20'-0"	11.0	11.7	<i>28'-6"</i>	14.4	15.8	<i>3</i> 7'-0"	17.8	19.8	45'-6"	21.1	23.8
66"	6'-7"	3'-0"	2'-0"	2'-0"	4'-8"	2'-1"	9'-3"	21'-9"	13.2	14.1	31'-0"	17.2	18.9	40'-3"	21.2	23.7	<i>4</i> 9'-6"	25.1	28.5
72"	7'-/"	3'-0"	2'-0"	2'-0"	5'-2"	2'-/"	10'-0"	23'-3"	15.0	16.0	33'-3"	19.4	21.4	43'-3"	23.9	26.8	53'-3"	28.3	32.3
78"	7'-8"	3'-0"	2'-0"	2'-0"	5'-10"	2'-2"	10'-9"	25'-0"	<i>17.5</i>	18.7	35'-9"	22.6	25.0	46'-6"	27.8	31.3	57'-3"	32.9	<i>3</i> 7.6
84"	8'-2"	3'-0"	2'-0"	2'-0"	6'-4"	2'-2"	<i>II'-8"</i>	26'-6"	<i>19.</i> 5	20.9	<i>38'-2"</i>	25.3	28.1	49'-10"	31.1	35.2	6/'-6"	36.9	42.4

## GENERAL NOTES

I. Straight sand-cement endwalls are intended for use outside the clear zone.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

## STRAIGHT SAND-CEMENT **ENDWALLS**

	Names	Dates	Approve	d By /	M	<i>( )</i>			
Designed By			State Drainage Engineer						
Drawn By	JBW	07/88	Revision	Sheet I	No.	Index No.			
Checked By	JVG/EGR	08/88	00	l of l		258			