

TABLE OF DIMENSIONS  
for  
SAND CEMENT RIP-RAP ENDWALLS

ROUND PIPE - CORRUGATED METAL PIPE & ALUMINUM PIPE															
PIPE SIZE	H'	D'	X'	A'	B'	C'	T'	PIPE SIZE	H'	D'	X'	A'	B'	C'	T'
12"	3'-2"	4'-2"	2'-4"	3'-2"	0'-0"	0'-0"	1'-0"	36"	5'-2"	9'-2"	5'-1"	2'-0"	3'-2"	0'-0"	2'-0"
15"	3'-5"	4'-10"	2'-7"	3'-5"	0'-0"	0'-0"	1'-0"	42"	5'-8"	10'-5"	6'-0"	2'-0"	3'-8"	0'-0"	2'-0"
18"	3'-8"	5'-5"	2'-10"	3'-8"	0'-0"	0'-0"	1'-0"	48"	6'-2"	11'-8"	6'-9"	2'-0"	2'-0"	2'-2"	3'-0"
24"	4'-2"	6'-8"	3'-5"	2'-0"	2'-2"	0'-0"	2'-0"	54"	6'-8"	12'-11"	7'-8"	2'-0"	2'-0"	2'-8"	3'-0"
30"	4'-8"	7'-11"	4'-3"	2'-0"	2'-8"	0'-0"	2'-0"	60"	7'-2"	14'-2"	8'-6"	2'-0"	2'-0"	3'-2"	3'-0"

PIPE ARCHES - CORRUGATED METAL PIPE & ALUMINUM PIPE

PIPE SIZE	H'	D'	X'	A'	B'	C'	T'	PIPE SIZE	H'	D'	X'	A'	B'	C'	T'
~	~	~	~	~	~	~	~	43"x27"	4'-5"	8'-0"	6'-1"	2'-0"	2'-5"	0'-0"	2'-0"
18"x11"	3'-1"	4'-3"	2'-10"	3'-1"	0'-0"	0'-0"	1'-0"	50"x31"	4'-9"	8'-11"	6'-11"	2'-0"	2'-9"	0'-0"	2'-0"
22"x13"	3'-3"	4'-9"	3'-3"	3'-3"	0'-0"	0'-0"	1'-0"	58"x36"	5'-2"	10'-1"	8'-0"	2'-0"	3'-2"	0'-0"	2'-0"
29"x18"	3'-8"	5'-11"	4'-2"	3'-8"	0'-0"	0'-0"	1'-0"	65"x40"	5'-6"	11'-1"	8'-11"	2'-0"	3'-6"	0'-0"	2'-0"
36"x22"	4'-0"	6'-10"	5'-1"	2'-0"	2'-0"	0'-0"	2'-0"	72"x44"	5'-10"	12'-0"	10'-0"	2'-0"	3'-10"	0'-0"	2'-0"

ROUND PIPE - REINFORCED CONCRETE PIPE

PIPE SIZE	H'	D'	X'	A'	B'	C'	T'	PIPE SIZE	H'	D'	X'	A'	B'	C'	T'
12"	3'-2"	4'-2"	2'-4"	3'-2"	0'-0"	0'-0"	1'-0"	36"	5'-4"	9'-8"	5'-1"	2'-0"	3'-1"	0'-0"	2'-0"
15"	3'-5"	4'-10"	2'-7"	3'-5"	0'-0"	0'-0"	1'-0"	42"	5'-11"	11'-1"	6'-0"	2'-0"	3'-11"	0'-0"	2'-0"
18"	3'-8"	5'-5"	2'-10"	3'-8"	0'-0"	0'-0"	1'-0"	48"	6'-5"	12'-4"	6'-9"	2'-0"	2'-0"	2'-5"	3'-0"
24"	4'-3"	7'-0"	3'-5"	2'-0"	2'-3"	0'-0"	2'-0"	54"	7'-0"	13'-9"	7'-8"	2'-0"	2'-0"	3'-0"	3'-0"
30"	4'-10"	8'-5"	4'-3"	2'-0"	2'-10"	0'-0"	2'-0"	60"	7'-6"	15'-0"	8'-6"	2'-0"	2'-0"	3'-6"	3'-0"

ELLIPTICAL PIPE (HORIZ.) - REINFORCED CONCRETE PIPE

PIPE SIZE	H'	D'	X'	A'	B'	C'	T'	PIPE SIZE	H'	D'	X'	A'	B'	C'	T'
~	~	~	~	~	~	~	~	45"x29"	4'-10"	9'-1"	6'-0"	2'-0"	2'-10"	0'-0"	2'-0"
~	~	~	~	~	~	~	~	53"x34"	5'-3"	10'-3"	7'-1"	2'-0"	3'-3"	0'-0"	2'-0"
23"x14"	3'-5"	5'-4"	3'-5"	3'-5"	0'-0"	0'-0"	1'-0"	60"x38"	5'-8"	11'-4"	7'-11"	2'-0"	3'-8"	0'-0"	2'-0"
30"x19"	3'-10"	6'-7"	4'-2"	3'-10"	0'-0"	0'-0"	1'-0"	68"x43"	6'-1"	12'-6"	8'-10"	2'-0"	2'-0"	2'-1"	3'-0"
38"x24"	4'-3"	7'-9"	5'-2"	2'-0"	2'-3"	0'-0"	2'-0"	76"x48"	6'-7"	13'-10"	9'-9"	2'-0"	2'-0"	2'-7"	3'-0"

TOTAL ENDWALL LENGTH = 2 · D' + [(NUMBER OF PIPES - 1) · X']

PIPE SIZE & TYPE TO BE DETERMINED OR APPROVED BY COUNTY ENG.

SEE STANDARD P.D.W-1 FOR PROPER ENDWALL USE

plotdate 04/10/03

COLLIER COUNTY TRANSPORTATION OPERATIONS DEPARTMENT	REVISION	TITLE:  ENDWALL DETAIL SAND CEMENT RIP-RAP	SHEET
	APPROVED		