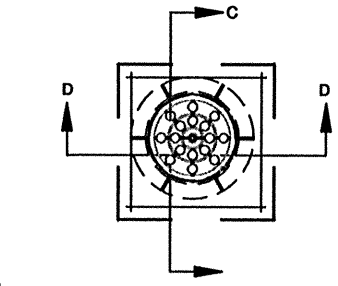


OPTIONAL MANHOLE

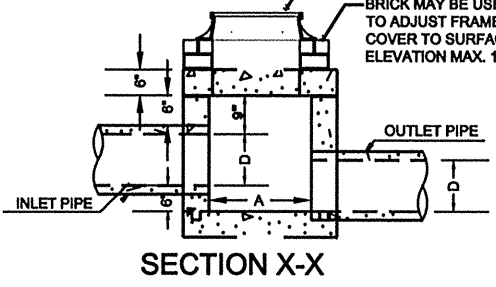


GENERAL NOTES:

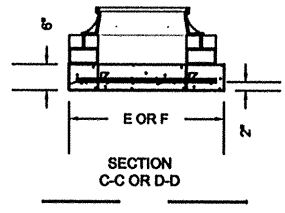
ALL EXPOSED CORNERS TO BE CHAMFERED 1".
 CLASS "A" CONCRETE TO BE USED THROUGHOUT.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY,
 OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE
 ENGINEER.
 FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF
 BOX, DROP BASE SUBGRADE TO PROVIDE CONSTANT
 THICKNESS OF CONCRETE.
 ALL JUNCTION BOXES OVER 3'-6" IN DEPTH SHALL BE
 PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE
 IN ACCORDANCE WITH STD. NO. 4.9.
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY
 QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E.
 DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB,
 ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN
 TOP SLAB.)

PLAN

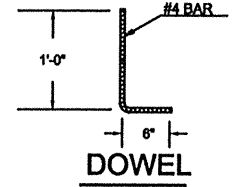
SEE STANDARD 4.8
 FOR MANHOLE COVER
 & FRAME
 OPTIONAL
 BRICK MAY BE USED
 TO ADJUST FRAME &
 COVER TO SURFACE
 ELEVATION MAX. 1"



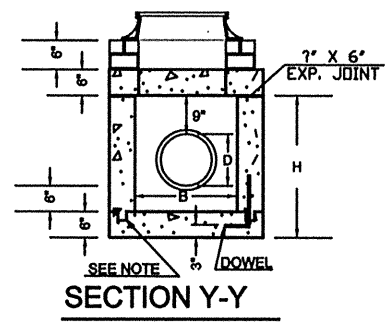
SECTION X-X



SECTION
 C-C OR D-D



DOWEL



SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES														
DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS "A"		COVER DIMENSIONS		CUBIC YARDS IN BOX			TOTAL QUANTITIES FOR BOX AND COVER		DEDUCTIONS FOR ONE PIPE CU.YDS.	
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	COVER	FLOOR	WALL/ FT. OF HT.	LBS. REINF.	CU. YDS. MIN. "H"	G.S.	R.C.
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.187	0.167	0.185	22	0.750	0.015	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	0.204	24	0.902	0.023	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	0.222	30	1.065	0.033	0.049
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.298	0.298	0.259	40	1.434	0.059	0.085
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	0.296	51	1.860	0.092	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	64	2.341	0.132	0.178
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	0.370	77	2.878	0.180	0.243
48"	5'-0"	5'-0"	5'-3"	24	5'-9"	6'-0"	6'-0"	0.667	0.667	0.407	92	3.471	0.235	0.317
54"	5'-6"	5'-6"	5'-9"	26	6'-3"	6'-6"	6'-6"	0.782	0.782	0.444	109	4.117	0.297	0.401
60"	6'-0"	6'-0"	6'-3"	28	6'-9"	7'-0"	7'-0"	0.907	0.907	0.481	127	4.820	0.367	0.495
66"	6'-6"	6'-6"	6'-9"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	0.518	145	5.581	0.444	0.589

CONCRETE JUNCTION BOX 12" - 66" PIPE

CITY OF ROCKY MOUNT
 DEPT. OF ENGINEERING

APPROVED

STD. NO.

DATE

REVISION

03-07-03

REVISIONS		
NO	DATE	DESCRIPTION