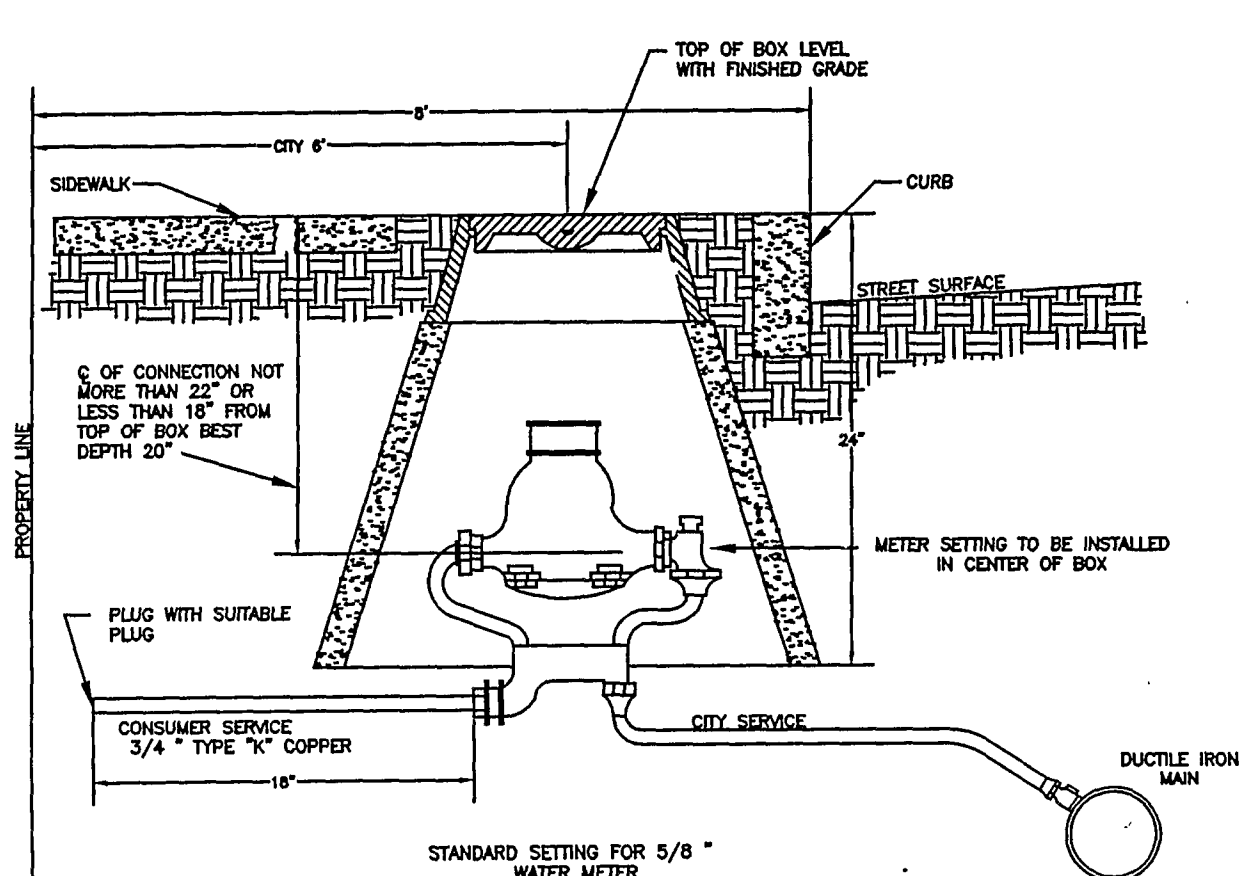
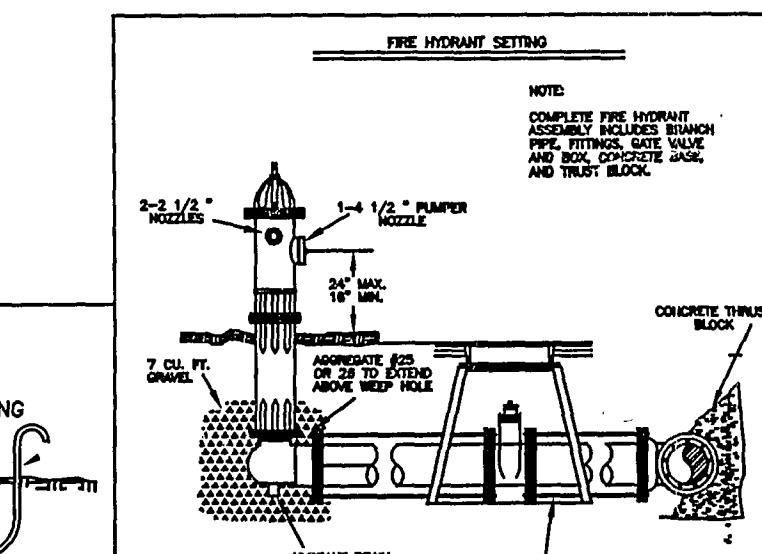
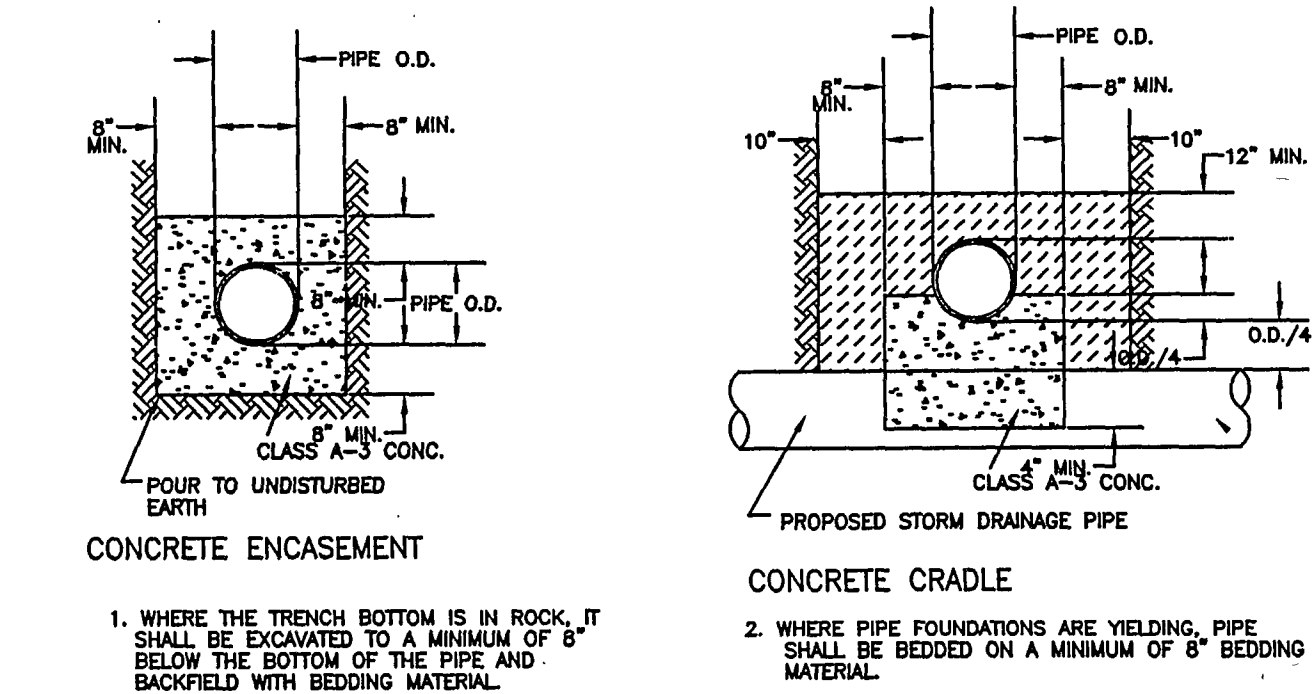
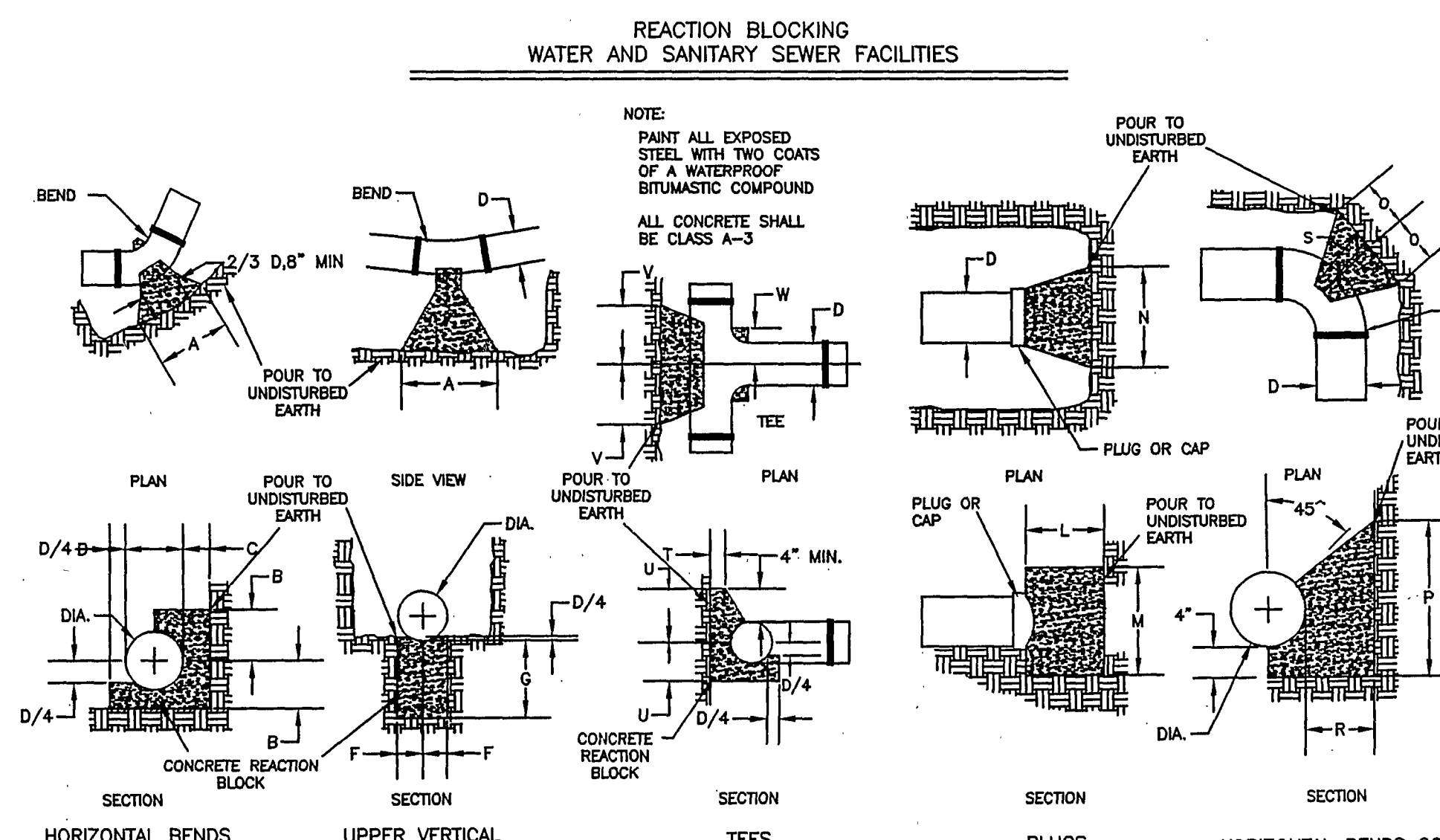
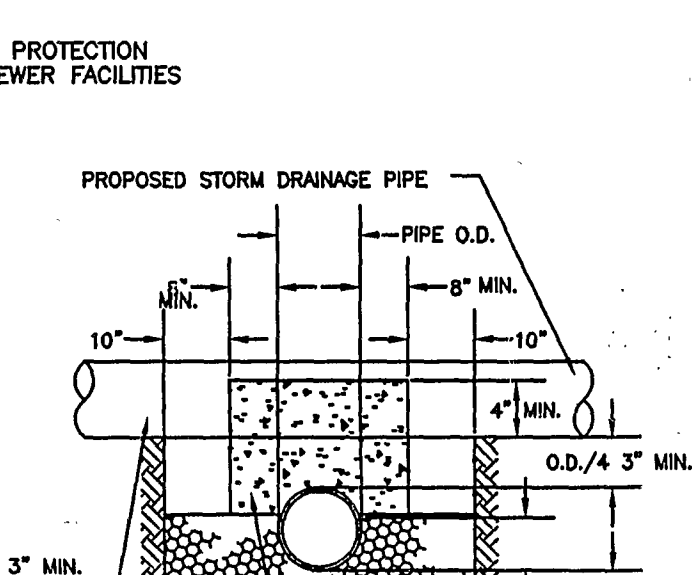
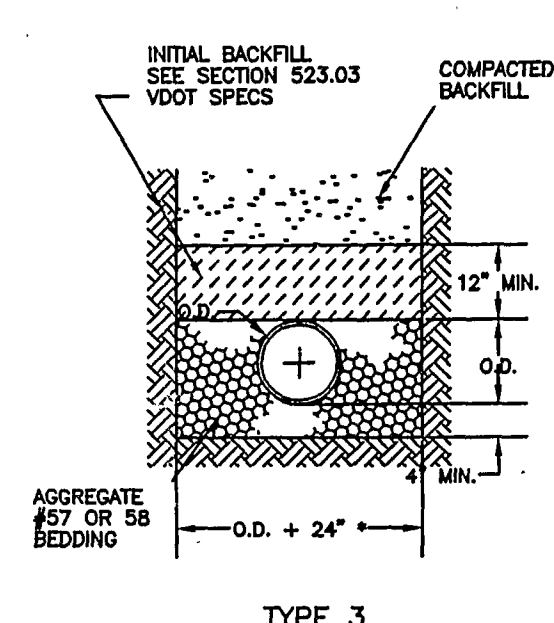
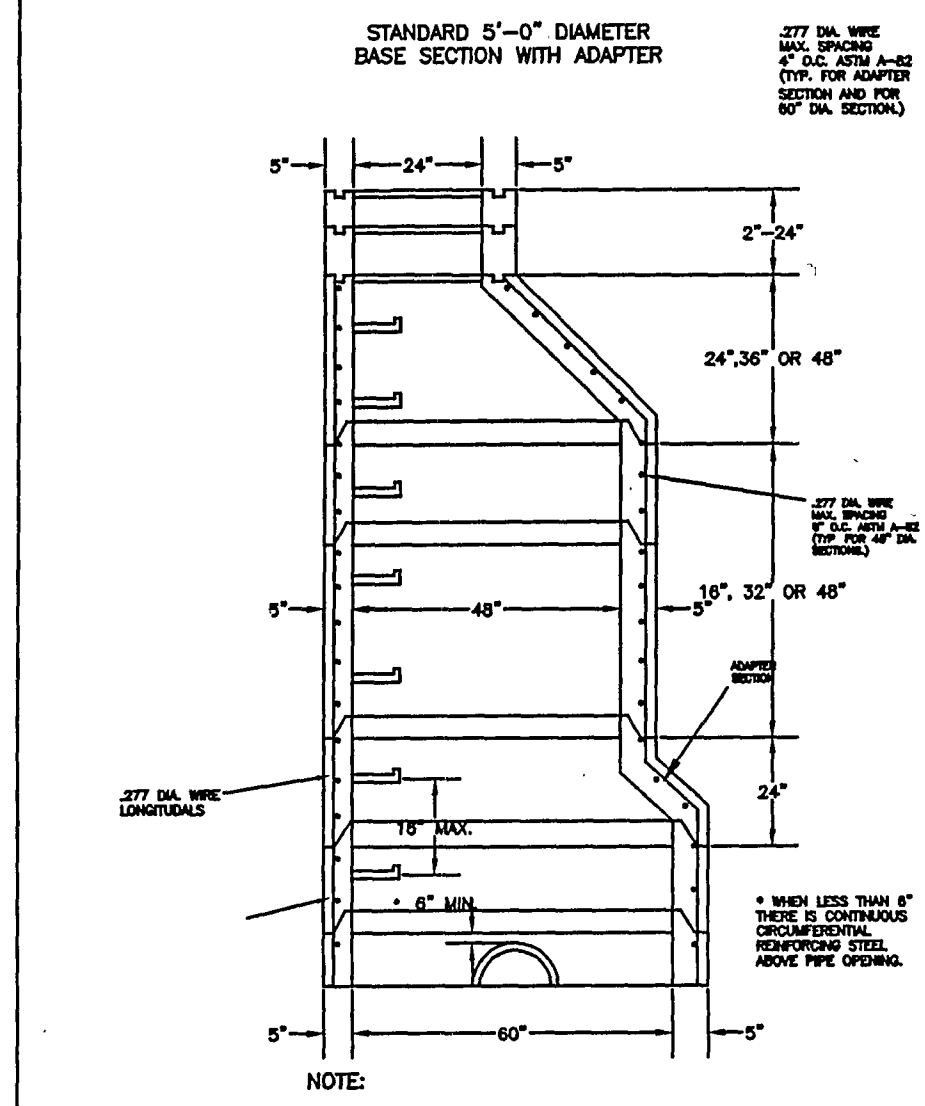
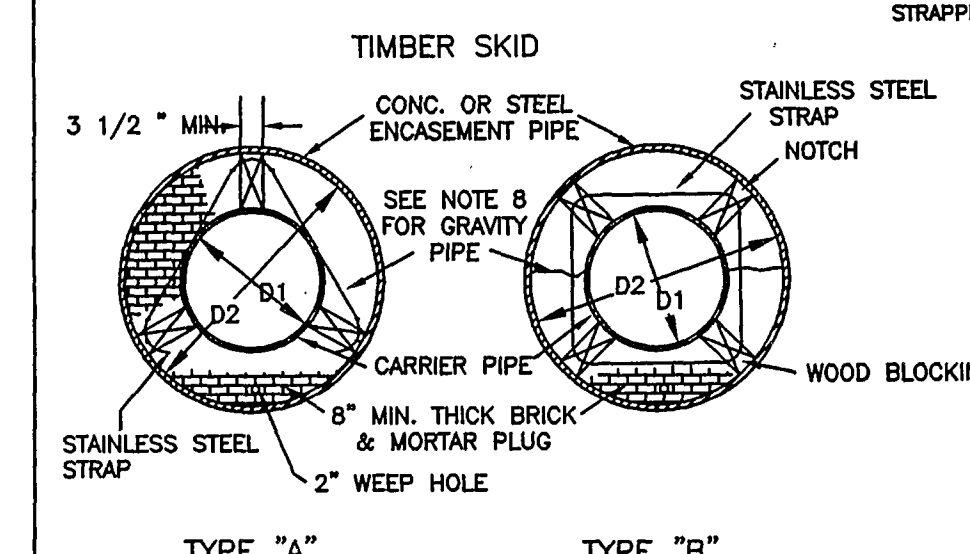
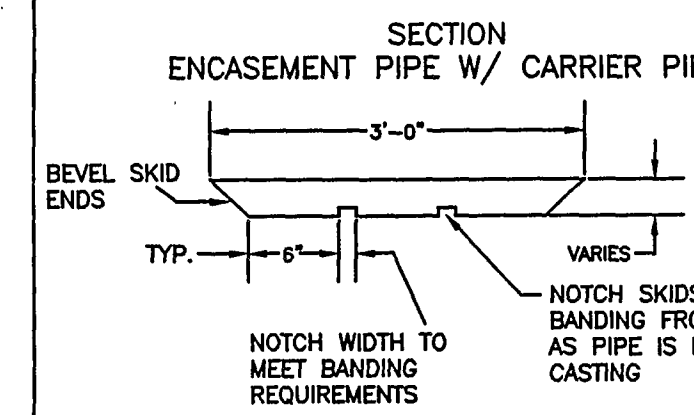


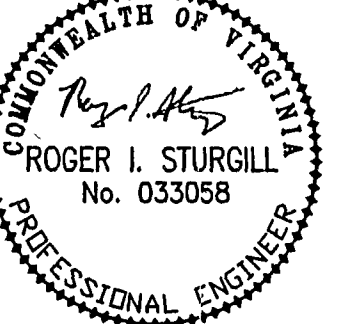


DIA.		HORIZONTAL BENDS									UPPER VERTICAL BENDS									PLUGS				HORIZ. BENDS				TEE BRANCH			
11 1/4"			22 1/2"			45"			11 1/4"			22 1/2"			45"							90"									
A	B	C	A	B	C	A	B	C	A	B	C	E	F	G	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z			
4"	.50	.58	.75	.75	.58	.75	1.22	.58	.75	.50	.58	.75	.58	.58	1.22	.58	.50	1.17	1.50	1.17	1.17	1.67	.42	.75	.67	.75	.50				
6"	.50	.58	.75	.75	.58	.75	1.22	.58	.75	.50	.58	.75	.58	.58	1.22	.58	.50	1.17	1.50	1.17	1.17	1.67	.42	.75	.67	.75	.50				
8"	.67	.67	.75	1.00	.67	.75	2.00	.67	.75	.67	.67	.58	1.00	.67	.67	2.08	.75	.83	.67	1.50	2.25	1.58	1.75	.50	.75	.83	1.00	.67			
10"	.83	.75	.75	1.50	.75	.83	2.50	.75	.83	.83	.75	.67	1.50	.83	.67	2.08	.75	.83	.67	2.00	2.50	1.67	1.75	.50	.83	1.00	1.25	.67			
12"	1.00	.83	.75	1.75	.92	.92	3.25	.92	1.17	1.00	.83	.67	1.75	.83	.67	2.50	.92	.92	.83	3.25	3.25	2.00	2.50	.92	.83	1.00	1.25	.67			
16"	1.33	1.00	.75	2.33	1.00	1.33	4.25	1.22	1.43	1.33	1.00	.75	2.25	.83	.75	3.33	1.25	1.25	1.00	2.92	4.17	2.08	3.00	2.17	.83	1.17	1.67	1.83	.83		
20"	1.67	1.00	.75	3.17	1.17	1.58	5.25	1.33	1.67	1.58	1.17	.83	3.00	1.17	1.00	4.25	1.50	1.50	1.17	3.75	5.17	3.50	3.33	2.17	.83	1.17	1.67	1.83			
24"	2.00	1.33	.92	4.00	1.33	1.92	6.25	1.58	2.00	1.92	1.33	1.00	3.83	1.33	1.00	5.25	1.67	1.67	1.33	4.50	6.17	4.50	3.67	2.50	.83	1.17	1.67	2.00			
30"	2.50	1.50	1.08	5.00	1.58	2.33	7.75	2.00	3.08	2.50	1.58	1.17	4.83	1.58	1.17	6.25	2.25	2.25	2.00	5.42	7.17	5.50	4.33	2.50	.83	1.17	1.67	2.00			
36"	3.00	1.92	1.17	5.75	2.00	2.00	8.92	2.50	3.33	3.00	1.58	1.17	5.33	2.00	1.17	7.50	2.50	2.67	2.00	6.50	9.00	6.83	5.00	4.83	1.17	2.00	3.75	3.92	1.83		



ENCASEMENT PIPE I.D. (IN.)	STEEL ENCASEMENT PIPE MINIMUM THICKNESS	
	COVER TO 15 FEET	COVER 15' & OVER
12"	1/4"	
16"	1/4"	USE MIN. 5/16
18"	1/4"	
20"	1/4"	
24"	3/8"	3/8"
36"	3/8"	3/8"
48"	7/16"	7/16"
54"	7/16"	7/16"
60"	7/16"	7/16"

- GENERAL NOTES:
1. TIMBER SKIDS SHALL BE LOCUST, CYPRESS, PRESERVATIVE TREATED HAEMLOCK, OR OTHER MATERIAL APPROVED BY THE ENGINEER. PRESERVATIVE SHALL CONFORM TO SECTION 246 OF THE SPECIFICATIONS.
 2. METAL STRAPS AND CLIPS HOLDING BLOCKING TO CARRIER PIPE SHALL BE STAINLESS STEEL WITH A MINIMUM CROSS SECTION OF 1/4" SQ. IN. STRAP SPACING SHALL BE A MINIMUM OF TWO (2) BANDS PER SKID LENGTH.
 3. STEEL ENCASEMENT PIPE SHALL BE GRADE B AND SHALL CONFORM TO SECTION 240.25 OF THE SPECIFICATIONS.
 4. CARRIER PIPE SHALL BE PUSHED OR PULLED THROUGH ENCASEMENT PIPES SO THAT JOINTS ARE ALWAYS BEING COMPRESSED.
 5. CARRIER PIPE SHALL BE WRAPPED WITH TAR PAPER AT MASONRY PLUG.
 6. MASONRY PLUG SHALL BE WATERTIGHT.
 7. CONCRETE PIPE FOR H-20 LIVE LOAD AS PER STANDARD PG-1-1.
 8. ENCASEMENT PIPE SHALL BE BEDDED IN ACCORDANCE WITH STANDARD PG-1-1.



BALZER
AND ASSOCIATES INC.
BVING
REFLECTING TOMORROW

PLANNERS • ARCHITECTS
ENGINEERS • SURVEYORS

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Blacksburg, Virginia 24060
Phone: 540/951-0381
FAX: 540/951-0962

DALETON RD. SUBDIVISION
SOUTHWOOD MANAGEMENT, INC.

DETAILS

DRAWN BY: DRB
DESIGNED BY: DRB
CHECKED BY: RIS
DATE: JULY 26, 2002
REVISIONS:
8-30-02
9-19-02

WWW ID# 6QSKXY

SCALE: 30'

SHEET NO.

6 OF 6

JOB NO.

R0200106