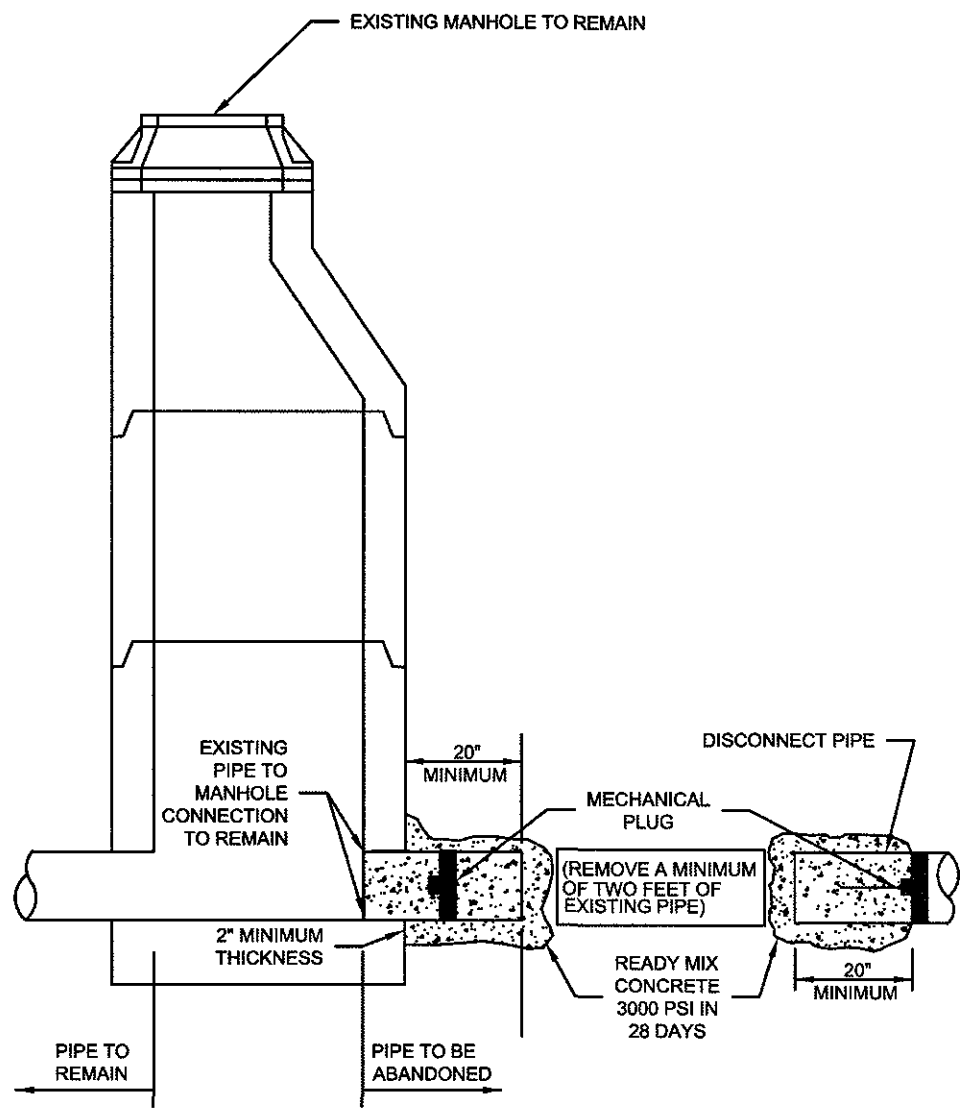


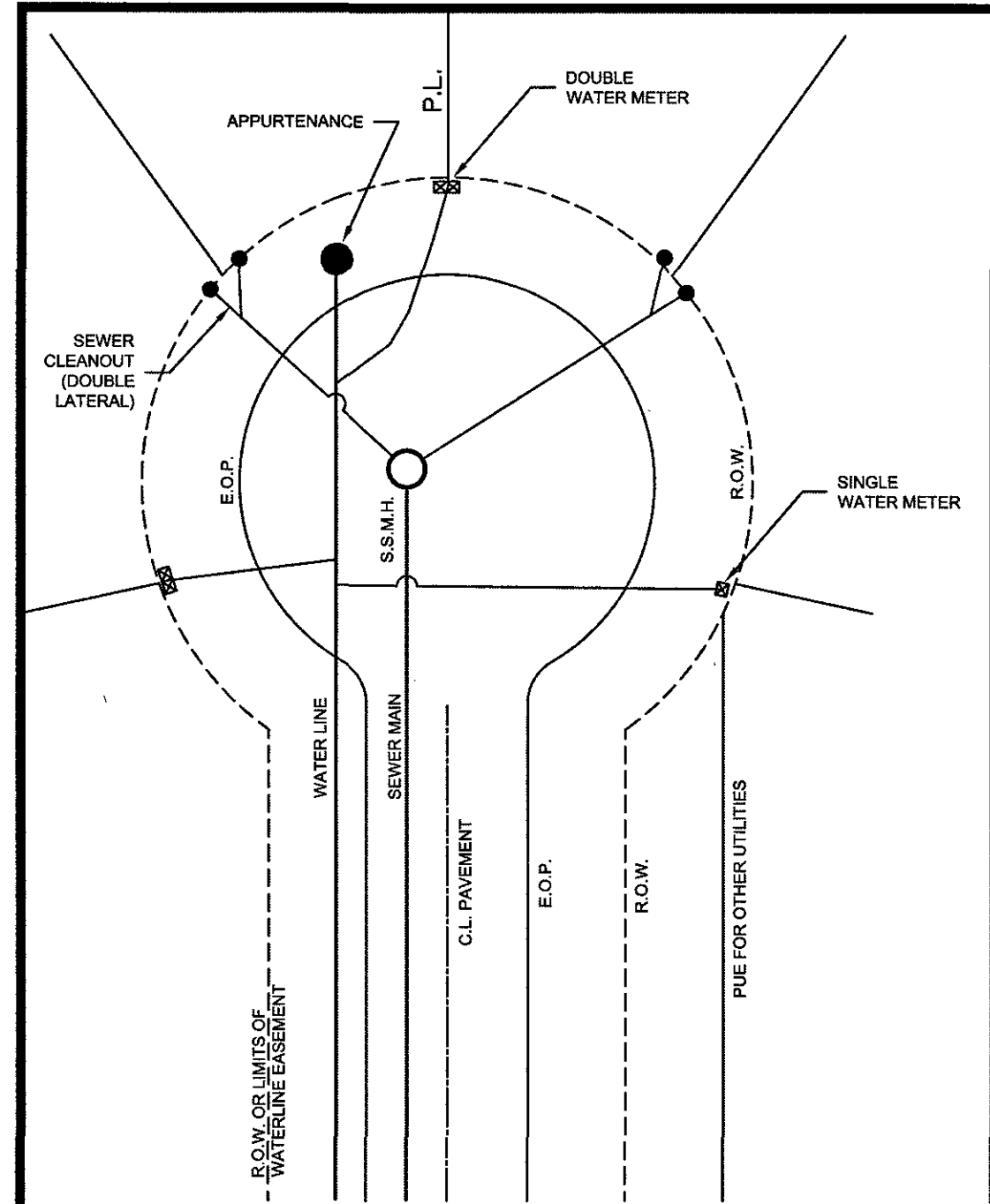
1. FOR PIPES 18" AND LARGER PROVIDE A MASONRY BULKHEAD IN LIEU OF MECHANICAL PLUGS.



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

SANITARY SEWER PIPE
ABANDONMENT AT A MANHOLE

S-15
01/01/14

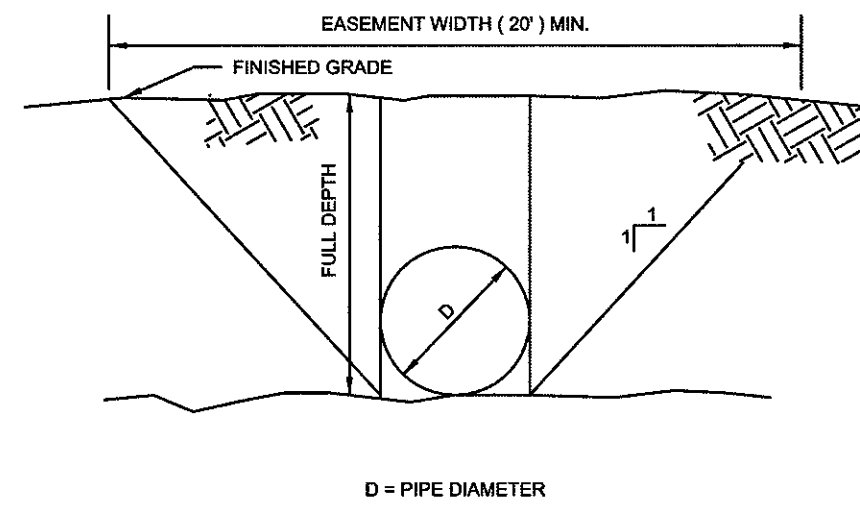


WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

PUBLIC WATER AND SANITARY SEWER
STANDARD CUL-DE-SAC CONFIGURATION

G-2
01/01/14

1. PUBLIC EASEMENT WIDTH SHALL BE DETERMINED BASED ON 1:1 SIDE SLOPE EXTENDING FROM THE FINISHED GRADE TO OUTSIDE EDGE OF PIPE (NOMINAL PIPE DIAMETER) ROUNDED UP TO THE NEAREST 1' INCREMENT, OR 20' MINIMUM, WHICHEVER IS GREATER.
2. THIS EASEMENT SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE SUBJECT PIPE AT LEAST ONE HALF THE DISTANCE OF EASEMENT PAST CENTER OF LAST MANHOLE OR WATER APPURTENANCE.



WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

SANITARY SEWER AND
WATER LINE EASEMENTS

G-3
01/01/14

MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP
FOR A SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015

1 PIPE DIAMETER (IN)	2 MINIMUM TIME (MIN-SEC)	3 LENGTH FOR MINIMUM TIME (FT)	4 TIME FOR LONGER LENGTH (SEC)	SPECIFICATION TIME FOR LENGTH (L) SHOWN (MIN-SEC)							
				100 FT	150 FT	200 FT	250 FT	300 FT	350 FT	400 FT	450 FT
4	3:46	597	360 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	395	854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1,520 L	7:34	7:34	7:34	7:34	7:38	8:52	10:08	11:24
10	9:26	239	2,374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	199	3,418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	5,342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7,692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10,470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13,674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17,308 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21,366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25,852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30,768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46
42	39:48	57	41,893 L	69:48	104:42	139:37	174:30	209:24	244:19	279:13	314:07
48	45:34	50	54,705 L	91:10	138:45	182:21	227:55	273:31	319:06	364:42	410:17
54	51:02	44	69,236 L	115:24	173:05	230:47	288:29	346:11	403:53	461:34	519:16
60	56:40	40	85,476 L	142:28	213:41	284:55	356:09	427:23	498:37	569:50	641:04

NOTE: IF THERE HAS BEEN NO LEAKAGE (ZERO PSIG DROP) AFTER ONE HOUR OF TESTING, THE TEST SHALL BE ACCEPTED AND THE TEST COMPLETE.

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

LOW-PRESSURE AIR TESTING TABLE

S-18
01/01/14

PROJECT FRALIN AND WALDRON
DALEVILLE TOWN CENTER

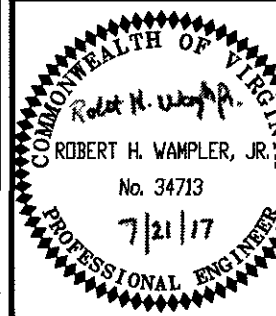
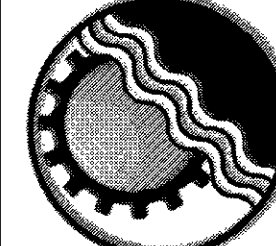
DRAWING ADDITIONAL DETAILS

SHEET

C-37B

DATE 5/8/08
PROJECT 03083
DESIGNED RHW
DRAWN MSMJ
CHECKED RHW

ENGINEERING
CONCEPTS, INC.
"Creating Success"
14 GREENFIELD STREET
DALEVILLE, VA 24615
540.475.1253



DESCRIPTION
BY
MARK DATE
REVISIONS