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- PAVEMENT IN ACCORDANCE WITH GOVERNING JURISDICTIONAL REQUIREMENTS
- REMOVE MANHOLE FRAME AND COVER, RESTORE TO MATCH SURROUNDING AREA AND GRADE
- FINISHED GRADE
- REMOVE MANHOLE TO A MINIMUM OF TWO FEET BELOW FINISHED GRADE (REMOVE ALL GRADE RINGS)
- #57 STONE, LEAN CONCRETE, OR FLOWABLE FILL
- FILL MANHOLE SOLID WITH 3,000 PSI CONCRETE
- 18" MINIMUM
- MECHANICAL PLUG

SANITARY SEWER MANHOLE ABANDONMENT

01/01/14

S-16

MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE 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 (FEET)	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	400FT	450 FT
4	3:46	597	380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:40	6:24
8	7:34	298	1,520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10	9:26	239	2,137 L	9:26	9:26	9:26	9:53	11:05	13:51	15:49	17:48
12	11:12	199	2,818 L	11:20	11:20	11:20	11:20	11:55	19:56	22:28	25:00
15	14:10	159	3,642 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	89	16,878 L	25:42	41:20	54:27	67:32	80:37	93:42	106:47	119:52
30	28:20	80	21,366 L	30:35	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25,852 L	35:43	64:38	86:10	107:43	129:16	150:53	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	41,983 L	69:48	104:42	139:37	174:30	209:24	244:19	279:13	314:07
48	45:30	50	50,110 L	136:45	182:21	227:57	273:42	319:26	365:11	410:56	456:41
54	51:02	44	69,236 L	142:24	213:05	280:47	348:29	416:11	483:53	551:34	619:16
60	56:40	40	85,476 L	115:28	174:31	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.

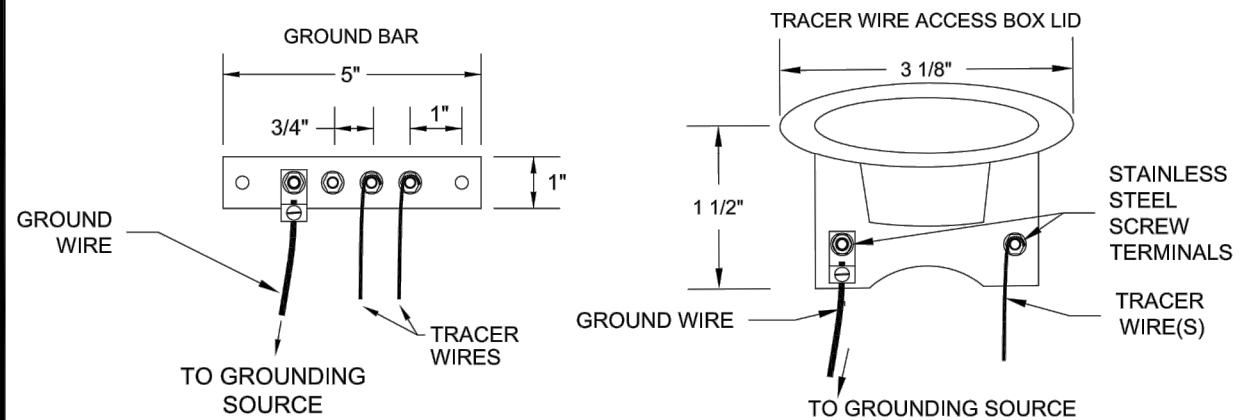
JUNI-B-6-98

LOW-PRESSURE AIR TESTING TABLE

01/01/14

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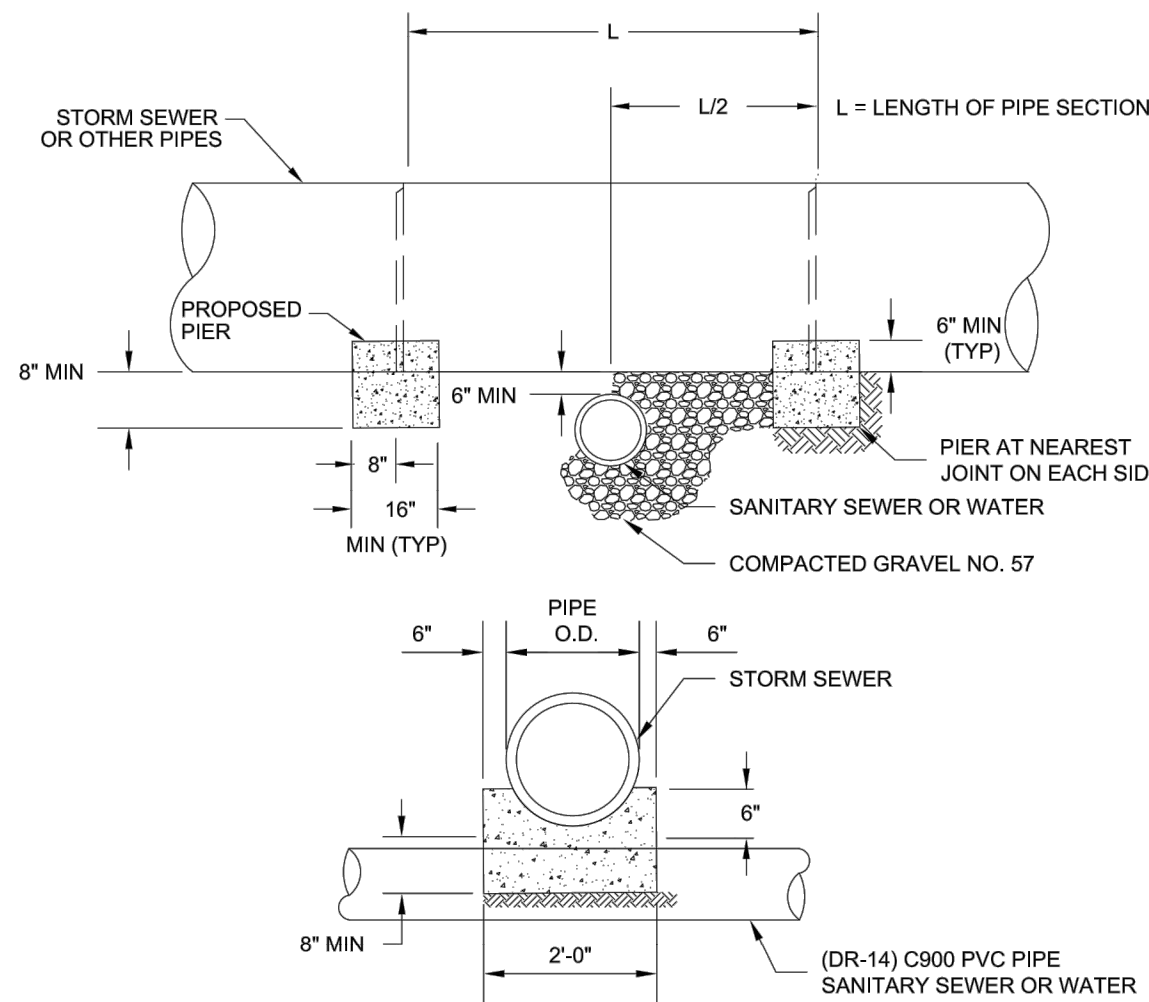


TRACER WIRE FOR NON-METALLIC PRESSURE PIPE

01/01/14

G-4

1. PIER REQUIRED WHEN STORM DRAIN OR OTHER PIPES CROSSES OVER THE OTHER UTILITY WITH A VERTICAL CLEARANCE OF LESS THAN 18".
2. PIER TO BE BUILT ON UNDISTURBED EARTH.
3. CONCRETE TO BE READY MIX, CLASS A3.



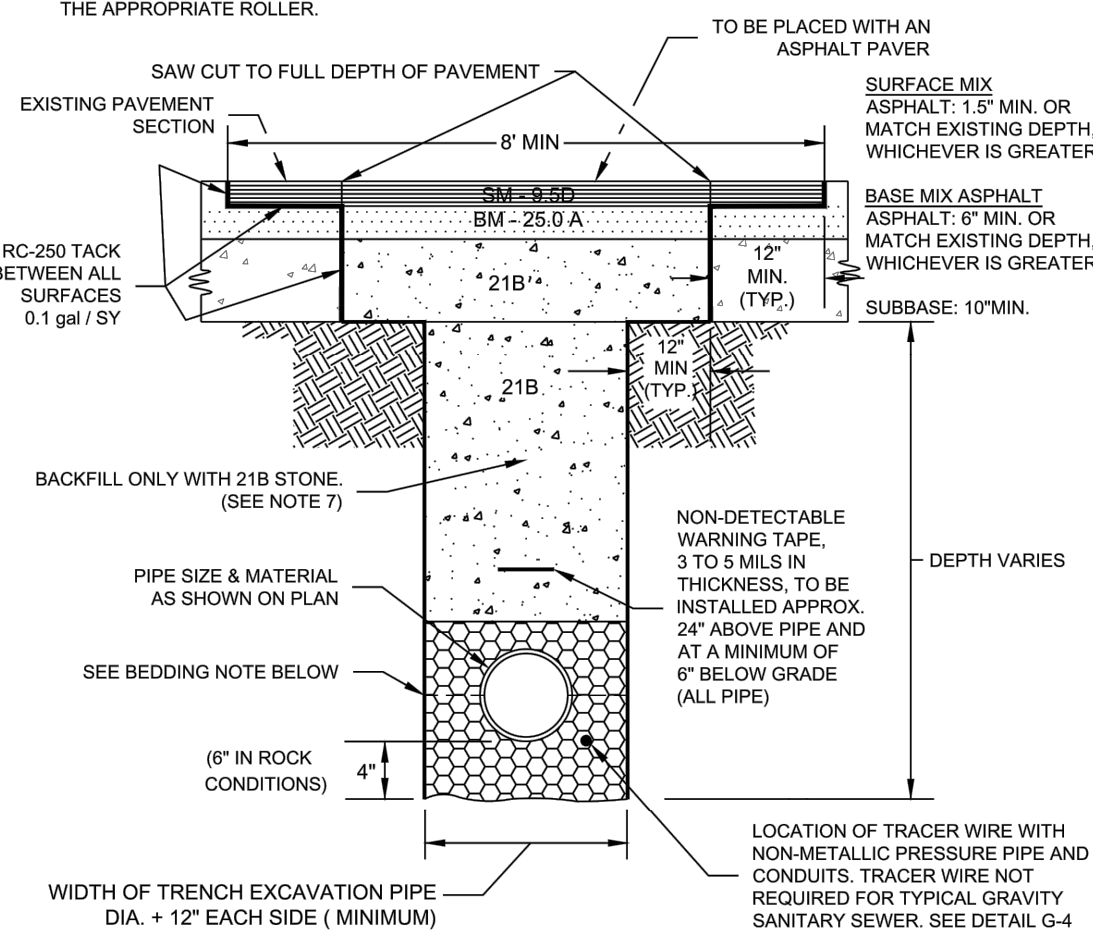
CONCRETE PIER

01/01/1.

VDOT PROJECT NUMBERS:
0115-080-R95, P101, C501 &
EN12-080-823, P101, R201, C501

VDOT UPC NUMBERS: 98220 & 103607

1. THIS DETAIL APPLIES TO WATER, SEWER, ELECTRIC, BROADBAND, AND STORM SEWER.
2. BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND MANUFACTURERS RECOMMENDATIONS.
3. ALL PVC PIPE SHALL BE BEDDED IN VDOT #57 OR #66 STONE.
4. IN VDOT ROW, THE CONTRACTOR SHALL REPLACE THE PAVEMENT AS REQUIRED AND SPECIFIED BY VDOT.
5. IN AREAS WITHIN THE PUBLIC RIGHT-OF-WAY, THE PIPE SHALL BE AS SPECIFIED BY VDOT.
6. PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT.
7. IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 8' LIFTS AND SHALL BE COMPACTED TO 98% OF MAXIMUM DRY WEIGHT PER AASHTO M 288.
8. ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
9. UTILITY SHALL BE 12" MINIMUM.
10. ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD PREVENTION IN TRENCHING AND SHIELDING".
11. THE TRACER SHALL BE PLACED LONGER THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 6" FROM THE PIPE. NON-METALLIC SPACERS MAY BE USED TO MAINTAIN A SET DISTANCE FROM THE UTILITY.
12. VDOT INSPECTOR TO BE ONSITE DURING ALL UTILITY INSTALLATIONS.
13. WHERE INTERMEDIATE COURSES (M) EXIST IN THE FIELD, THEY SHALL BE REPLACED WITH THE SAME DPTH AND THE BASE ASPHALT TO BE REPLACED WITH THE SAME DPTH.
14. THE BASE ASPHALT SHALL BE PLACED AT SUCH A WIDTH AS TO ALLOW THE BASE ASPHALT TO BE COMPACTED WITH



BEDDING AND BACKFILL UNDER PAVEMENT AND IN RIGHT-OF-WAY

G-12

Rev	Date	Description

Drawing

Sheet

DETAIL DRAWING

10(2C)



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PLANTATION ROAD, BICYCLE, PEDESTRIAN, AND STREETSCAPE IMPROVEMENTS PROJECT