STORM SEWER SCHEDULE

NOTES:
1. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF STRUCTURE
2. VDOT STD. ST-1 STEPS ARE REQUIRED FOR ALL STRUCTURES WITH A HEIGHT GREATER THAN OR EQUAL TO 4.0 FT.
3. INSTALL GEOTEXTILE FILTER FABRIC AROUND THE WEEP HOLE FOR ALL SAG DROP INLETS (DI-3CS).
4. TYPE B NOSE TO BE USED ON ALL DI-3C INLETS AND STRUCTURES 15, 75 & 77.

1	DI-3C, L=10', TOP=76.73, H=4.59'
2	180.00 LF OF 15" CL. III CONC. PIPE @ 8.94% INV. IN=72.14, INV. OUT=56.04
3	MH-1, TOP=63.56, H=15.52'
3A	40.00 LF OF 15" CL. III CONC. PIPE @ 14.00% INV. IN=48.04, INV. OUT=42.44
3B	MH-1, TOP=45.17, H=12.73'
4	44.00 LF OF 15" CL. III CONC. PIPE @ 14.00% INV. IN=32.44, INV. OUT=26.28
4A	MH-1, TOP=28.65, H=5.62'
4B	32.00 LF OF 15" CL. III CONC. PIPE @ 0.50% INV. IN=23.03, INV. OUT=22.87
5	DI-3B, L=8', TOP=80.78, H=5.04'
6	32.00 LF OF 15" CL. III CONC. PIPE @ 0.50% INV. IN=75.74 INV. OUT=75.58
7	DI-3B, L=4', TOP=80.78, H=5.3'
8	273.43 LF OF 15" CL. III CONC. PIPE @ 2.08% INV. IN=75.48, INV. OUT=69.80
9	DI-3C, L=10', TOP=77.23, H=8.57'
10	120.00 LF OF 15" CL. III CONC. PIPE @ 14.50% INV. IN=68.66, INV. OUT=51.26
10A	MH-1, TOP=54.36, H=12.10'
10B	48.00 LF OF 15" CL. III CONC. PIPE @ 14.00% INV. IN=42.26 INV. OUT=35.54
11	MH-1, TOP=39.52, H=11.48'
11A	48.00 LF OF 15" CL. III CONC. PIPE @ 14.00% INV. IN=28.04 INV. OUT=21.32
11B	MH-1, TOP=25.92, H=4.70', W/ IS-1
12	104.00 LF OF 15" CL. III CONC. PIPE @ 1.25% INV. IN=21.22, INV. OUT=19.92
12A	MH-1, TOP=21.87, H=2.05', W/ IS-1
12B	12.00LF OF 18" CL. III CONC. PIPE @ 0.50% INV. IN=19.82, INV. OUT=19.76
13	DI-3B, L=6', TOP=80.89, H=4.14'
14	32.00 LF OF 15" CL. III CONC. PIPE @ 0.50% INV. IN=76.75, INV. OUT=76.59
15	DI-3B, L=8', TOP=80.64, H=4.15'
16	96.92 LF OF 15" CL. III CONC. PIPE @ 3.49% INV. IN=76.49, INV. OUT=73.11
16A	MH-1, TOP=80.00, H=7.24', W/ IS-1
16B	334.00 LF OF 18" CL. III CONC. PIPE @ 1.86% INV. IN=72.76, INV. OUT=66.54
17	DI-5, TYPE III-A GRATE, TOP=74.87, H=4.19'
18	49.86 LF OF 18" CL. III CONC. PIPE @ 1.99% INV. IN=70.68, INV. OUT=69.69
19	MH-1, TOP=77.09, H=7.5'
20	154.91 LF OF 18" CL. III CONC. PIPE @ 1.97% INV. IN=69.59, INV. OUT=66.54
21	DI-3C, L=14', TOP=76.79, H=5.04'
22	222.77 LF OF 15" CL. III CONC. PIPE @ 0.50% INV. IN=71.75, INV. OUT=70.64
23	DI-3BB, L=10', TOP=77.14, H=11.10', W/ IS-1
24	166.72 LF OF 24" CL. III CONC. PIPE @ 0.50% INV. IN=66.04, INV. OUT=65.21
25	DI-3B, L=8', TOP=76.08, H=5.08'
26	83.10 LF OF 15" CL. III CONC. PIPE @ 6.06% INV. IN=71.00, INV. OUT=65.96
27	DI-3CC, L=14', TOP=75.60, H=10.49', W/ IS-1
28	31.99 LF OF 24" CL. III CONC. PIPE @ 4.69% INV. IN=65.11, INV. OUT=63.61
29	DI-3CC, L=10', TOP=75.60, H=12.09'
30	133.65 LF OF 24" CL. III CONC. PIPE @ 14.50% INV. IN=63.51, INV. OUT=44.13
31	MH-1, TOP=56.00, H=15.97', W/ IS-1
32	36.07 LF OF 24" CL. III CONC. PIPE @ 2.77% INV. IN=40.03, INV. OUT=39.03
33A	DI-3B, L=10', TOP=77.12, H=6.58'
33B	61.32 LF OF 18" CL. III CONC. PIPE @ 0.50% INV. IN=70.54, INV. OUT=70.23
33	DI-3C, L=12', TOP=76.00, H=5.87'
34	77.16 LF OF 18" CL. III CONC. PIPE @ 0.62% INV. IN=70.13, INV. OUT=69.65
35	DI-3C, L=8', TOP=76.00, H=6.00'
36	139.90 LF OF 18" CL. III CONC. PIPE @ 2.39% INV. IN=69.55, INV. OUT=66.20
37	MH-1, TOP=75.00, H=8.90'
38	118.15 LF OF 18" CL. III CONC. PIPE @ 3.00% INV. IN=66.10, INV. OUT=62.55
39	DI-3CC, L=16', TOP=74.37, H=12.32', W IS-1, W/ SL-1
40	32.01 LF OF 15" CL. III CONC. PIPE @ 0.50% INV. IN=62.96, INV. OUT=62.80
41	DI-3CC, L=14', TOP=74.37, H=11.41'
42	138.53 LF OF 24" CL. III CONC. PIPE @ 0.58% INV. IN=62.05, INV. OUT=61.25
42A	DI-3BB, L=10', TOP=75.14, H=13.99', W/ IS-1, W/ SL-1
42B	33.76 LF OF 24" CL. III CONC. PIPE @ 0.71% INV. IN=61.15, INV. OUT=60.91
43	DI-3CC, L=4', TOP=75.17, H=14.36' W/IS-1, W/ SL-1
44	131.30 LF OF 24" CL. III CONC. PIPE @ 0.81% INV. IN=60.81, INV. OUT=59.75
45	DI-3BB, L=4', TOP=75.989, H=16.33', W/ SL-1
46	371.11 LF OF 24" HDPE PIPE @ 12.93% INV. IN=59.65, INV. OUT=11.68
47	MH-1, TOP=18.01, H=6.43'
48	16.00 LF OF 30" HDPE PIPE @ 0.50% INV. IN=11.58, INV. OUT=11.50
49	DI-3C, L=14', TOP=76.92, H=4.40'
50	114.82 LF OF 15" CL. III CONC. PIPE @ 2.08% INV. IN=72.52, INV. OUT=70.13
51	DI-1, TOP=72.70, H=2.67', W/ IS-1
52	159.26 LF OF 18" CL. III CONC. PIPE @ 2.53% INV. IN=70.03, INV. OUT=66.00
53	DI-3B, L=10', TOP=73.25, H=7.55', W/ IS-1
53A	DI-3B, L=10', TOP=73.25, H=6.95'
53B	32.00 LF OF 15" CL. III CONC. PIPE @ 0.94% INV. IN=66.30, INV. OUT=66.00
54	143.51 LF OF 24" CL. III CONC. PIPE @ 1.88% INV. IN=65.70, INV. OUT=63.00
55	DI-3BB, L=6', TOP=72.43, H=9.53', W/ IS-1
56	143.91 LF OF 24" CL. III CONC. PIPE @ 1.95% INV. IN=62.90, INV. OUT=60.10
57	DI-3B, L=8', TOP=72.53, H=6.53'
58	78.96 LF OF 15" CL. III CONC. PIPE @ 7.16% INV. IN=66.00, INV. OUT=60.35
59	DI-3CC, L=12', TOP=71.53, H=11.53', W/ IS-1
60	31.94 LF OF 24" CL. III CONC. PIPE @ 4.16% INV. IN=60.00, INV. OUT=58.67
61	DI-3CC, L=12', TOP=71.53, H=15.86', W/ IS-1, W/ SL-1
62	134.86 LF OF 24" CL. III CONC. PIPE @ 14.50% INV. IN=55.67, INV. OUT=36.12
63	MH-1, TOP=50.00, H=16.88', W/ IS-1
64	68.44 LF OF 24" CL. III CONC. PIPE @ 14.51% INV. IN 33.12, INV. OUT=23.19
65	DI-3C, L=10', TOP=73.25, H=3.50'
66	164.82 LF OF 15" CL. III CONC. PIPE @ 14.50% INV. IN=69.75, INV. OUT=45.85
67	MH-1, TOP=56.55, H=17.95', W/ IS-1
68	88.99 LF OF 15" CL. III CONC. PIPE @ 14.50% INV. IN=38.60, INV. OUT=25.70
69	MH-1, TOP=39.63, H=17.43', W/ IS-1
70	60.22 LF OF 24" CL. III CONC. PIPE @ 14.28% INV. IN=22.20, INV. OUT=13.60
71	MH-1, TOP=17.57, H=7.47', W/ IS-1
72	20.00 LF OF 30" CL III CONC. PIPE @ 0.50% INV. IN=10.10, INV. OUT=10.00
73	DI-5, TYPE III-A GRATE, TOP=79.50, H=3.5'
74	28.00 LF OF 15" CL III CONC. PIPE @ 1.79% INV. IN=76.00, INV. OUT=75.50
75	DI-3B, L=8', TOP=79.85, H=4.45'
76	62.00 LF OF 15" CL III CONC. PIPE @ 1.13% INV. IN=75.40, INV. OUT=74.70
77	DI-3B, L=4', TOP=79.85, H=5.25'
78	118.19 LF OF 15" CL III CONC. PIPE @ 1.26% INV. IN=74.60, INV. OUT=73.11
79	36.00 OF 15" HDPE PIPE @ 16.78% INV. IN=79.50, INV. OUT=73.46
80	106.00 LF OF 15" HDPE PIPE @ 35.63% INV. IN=78.04, INV. OUT=40.27

PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES

NOTES:

1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF PRINCE GEORGE COUNTY APPLICABLE AT THE TIME OF NOTICE TO PROCEED.
2. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W, UTILITY CONTRACTORS MUST NOTIFY VDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED ON TRENCH BACKFILL (95% ASTM. D-698 @ OPTIMUM MOISTURE + 2%).
3. THE INSTALLATION OF A SEWER BACKFLOW DEVICE IS REQUIRED FOR ALL SERVICE CONNECTIONS WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE NEAREST DOWNGRADE AND/OR UPGRADE MANHOLE TOP ELEVATIONS. THIS DEVICE WILL BE INSPECTED BY THE BUILDING INSPECTION DEPARTMENT.
4. ALL WATER SERVICE CONNECTIONS BELOW THE ELEVATION CONTOUR OR WHERE THE PRESSURE IS GREATER THAN 80 P.S.I. WILL REQUIRE INDIVIDUAL PRESSURE REGULATORS AS REQUIRED BY BOCA CODE.
5. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (USC & GS DATUM). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
6. CONTRACTOR SHALL PROPERLY NOTIFY ALL PROPERTY OWNERS TWO (2) WEEKS PRIOR TO THE START OF ANY CONSTRUCTION (INCLUDING LAND CLEARING). NOTIFICATION SHALL BE IN THE FORM OF A LETTER SIMILAR TO THE "SAMPLE" REFLECTED IN THE COUNTY'S LATEST WATER AND SEWER SPECIFICATIONS (NOT-1)

REQUIRED INFORMATION FOR TITLE PAGE

APPLICANTS NAME _____
ZONING AND CASE #_____
NUMBER OF LOTS _____
TAX MAP NUMBER _____
DATE OF PLANNING _____
COMMISSION APPROVAL _____

DATE		DRWG. NO.
JAN. 2008	STANDARD SEWER AND WATER NOTES	DES-2
REVISIONS		

PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES

NOTES CONT.

7. THE ENGINEER WILL CERTIFY THAT THE ROADS ARE WITHIN 6-INCHES OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN BEGIN.
8. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W, UTILITY CONTRACTORS SHALL NOTIFY VDOT 48 HOURS IN ADVANCE WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% @ OPTIMUM MOISTURE + 2%).
9. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS AHEAD OF CONSTRUCTION PRIOR TO STARTING THE WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, OR IF THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN CALL MISS UTILITY OF VIRGINIA AT 1-800-552-7001 TOLL FREE.
10. THE INSTALLATION OF A BACKFLOW DEVICE IS REQUIRED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE TOP UPGRADE MANHOLE. THIS DEVICE WILL BE INSPECTED BY THE COUNTY BUILDING INSPECTOR.
11. INDIVIDUAL WATER SERVICES SHALL BE 3/4"
12. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE.
13. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONCRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND OR DETAIL MAN-2B SHALL BE USED.
14. A SMOOTH TRANSITION OF A DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY MANHOLE.
15. ALL FIRE HYDRANTS SHALL BE O.S.H.A. RED IN COLOR.
16. METER BOXES PROVIDED SHALL BE CAST IRON 12"x18"x24" HIGH WITH CAST IRON LIDS. THE METER ASSEMBLIES ARE TO BE SUPPLIED WITH NEPTUNE PROHEAD ENCODERS AND 6"X60" PIT NOD WITH ATTACHED TO THE LID. METERS ARE TO BE COMPATIBLE WITH THE PROPOSED SYSTEM. A WAND TYPE VISUAL READER COMPATIBLE WITH THE PROHEAD SYSTEM WILL BE SUPPLIED TO THE UTILITY DEPARTMENT WITH THE WATER METERS.
17. ALL SANITARY SEWER LATERALS THAT ARE INSTALLED OUTSIDE OF THE R/W ARE TO HAVE THE CLEANOUT INSTALLED AT THE EDGE OF THE EASEMENT. A CARSONITE MARKER SHALL ALSO BE INSTALLED TO INDICATE THEIR LOCATION.
18. ALL HYDRANTS AND BENDS SHALL BE EQUIPPED WITH MEGA LUGS, KICKERS AND THRUST BLOCKS.
19. PRESSURE REDUCING VALVES SHALL BE USED IN LOTS WHERE THE STATIC PRESSURE IN THE SYSTEM EXCEEDS 80 PSI OR AS REQUIRED BY BUILDING CODE.
20. CLEANOUTS ARE TO BE INSTALLED ON ALL SANITARY LATERALS IN ACCORDANCE WITH PRINCE GEORGE COUNTY SPECIFICATIONS. THESE CLEANOUTS SHOULD BE INSTALLED AT THE EDGE OF THE R/W.

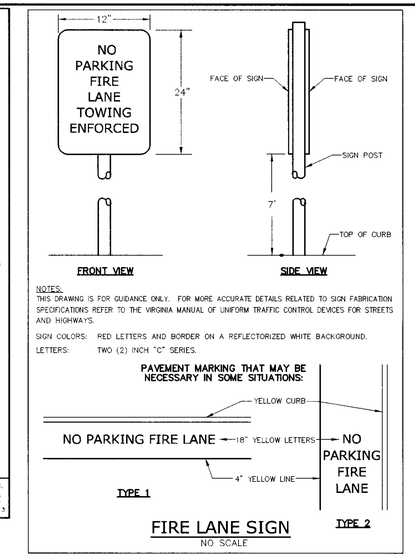
DATE		DRWG. NO.
JAN. 2008	STANDARD SEWER AND WATER NOTES	DES-2
REVISIONS		SHEET 2 OF 3

PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES

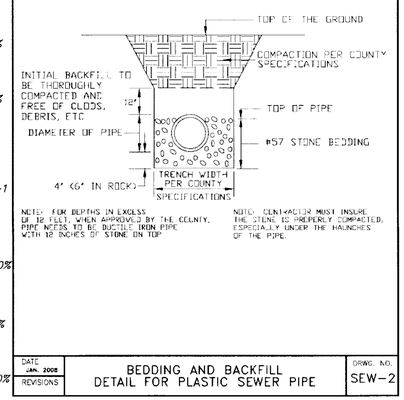
NOTES CONT.

21. UTILITY INSPECTOR SHALL BE CONTACTED BEFORE INDIVIDUAL SERVICE CONNECTIONS ARE COVERED.
22. ALL MANHOLES WITHIN 1,000 FEET OF A FORCE MAIN DISCHARGE SHALL BE COATED AS REQUIRED IN THE LATEST COUNTY SPECIFICATIONS.
23. ALL INDIVIDUAL WATER AND SEWER CONNECTIONS SHALL BE MADE USING DOUBLE BANDED, STAINLESS STEEL, EPOXY COATED SADDLES.
24. A "W" AND "S" SHALL BE STAMPED IN THE CURB WHILE THE CONCRETE IS STILL WET. THESE MARKS SHALL INDICATE THE ACTUAL LOCATION OF THE WATER AND SEWER CONNECTIONS FOR EACH LOT.
25. ALL MANHOLES SHALL BE SEALED AT THE JOINTS WITH AN EXTERNAL RUBBER SLEEVE SIMILAR TO THE INTI-SHIELD SEAL WRAP AS MANUFACTURED BY SEALING SYSTEMS, INC. THE SEAL SHALL BE MADE OF EPDM (ETHYLENE PROPYLENE DIENE MONOMER) RUBBER WITH A MINIMUM THICKNESS OF 65 MILS. EACH UNIT SHALL HAVE A 2-INCH WIDE MASTIC STRIP ON THE TOP AND BOTTOM EDGE OF THE RUBBER WRAP. THE MASTIC SHALL BE NON-HARDENING BUTYL RUBBER SEALANT, WITH A MINIMUM THICKNESS OF 125 MILS.
26. THE BOXES FOR THE SEWER CONNECTIONS MUST BE MARKED AS SEWER CONNECTIONS RATHER THAN WATER METER.
27. ALL GATE VALVE BOXES LOCATED OUTSIDE THE PAVEMENT NEED TO BE ENCLOSED IN A 12"x12"x6" CONCRETE ENCLOSURE.

DATE		DRWG. NO.
JAN. 2008	STANDARD SEWER AND WATER NOTES	DES-2
REVISIONS		SHEET 3 OF 3

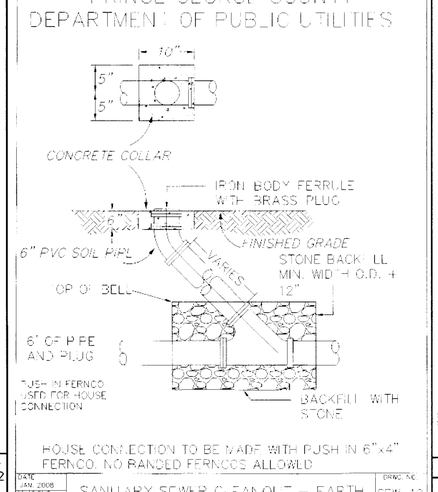


PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES



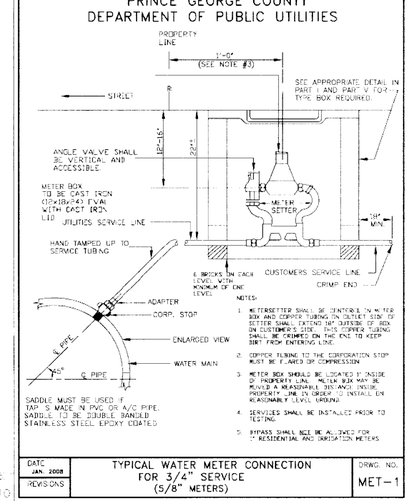
DATE		DRWG. NO.
JAN. 2008	BEDDING AND BACKFILL DETAIL FOR PLASTIC SEWER PIPE	SEW-2
REVISIONS		

PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES



DATE		DRWG. NO.
JAN. 2008 REVISIONS JUNE 2008	SANITARY SEWER CLEANOUT - EARTH	SEW-10

PRINCE GEORGE COUNTY DEPARTMENT OF PUBLIC UTILITIES



DATE		DRWG. NO.
JAN. 2008	TYPICAL WATER METER CONNECTION FOR 3/4" SERVICE (5/8" METERS)	MET-1
REVISIONS		

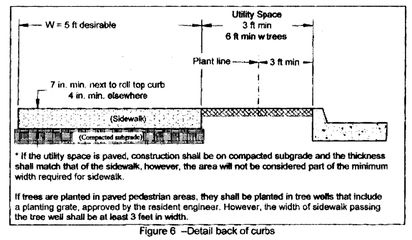


Figure 6 –Detail back of curbs

ROAD CENTERLINE DATA

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	200.00'	33.56'	16.82'	9°36'53"	N 18°27'58" W	33.52'
C2	200.00'	32.59'	16.33'	9°20'11"	S 18°19'38" E	32.55'
C3	120.00'	189.42'	120.93'	90°26'36"	N 69°41'28" W	170.36'
C4	150.00'	58.15'	29.45'	22°12'46"	N 34°22'48" W	57.79'
C5	300.00'	317.74'	175.60'	60°41'01"	S 67°00'48" E	303.10'
C6	165.00'	111.41'	57.92'	38°41'09"	N 26°08'36" W	109.30'
C7	250.00'	130.34	66.69'	29°52'16"	S 21°44'09" E	128.87'
C8	300.00'	563.27'	405.58'	107°33'27"	N 28°51'58" E	484.84'
C9	290.00'	559.66'	418.61'	110°34'25"	N 80°11'58" W	476.77'
C10	200.00'	136.18'	70.85'	39°00'49"	N 25°58'47" W	133.57'
C11	2,066.83'	481.96'	242.08'	13°21'39"	S 51°11'38" W	480.87'
C12	200.00'	150.75'	79.16'	43°11'13"	S 22°55'13" W	147.21'

LINE TABLE

LINE	DIRECTION	DISTANCE
L1	N 13°390'32" W	273.56
L2	N 22°59'43" W	67.43'
L3	N 23°16'25" W	130.58'
L4	S 49°06'418" W	144.69'
L5	S 65°31'50" W	25.00'
L6	N 24°28'10" W	137.49'
L7	S 65°05'14" W	95.76'
L8	N 36°40'17" W	40.54'
L9	N 01°19'36" E	35.20'
L10	N 06°48'02" W	186.67'
L11	S 82°38'41" W	101.57'
L12	N 24°54'46" W	244.57'
L13	S 45°29'11" E	269.33'
L14	S 45°29'11" E	162.12'
L15	S 45°29'11" E	610.51'
L16	S 06°28'22" E	276.84'
L17	S 44°30'49" W	260.66'
L18	S 44°30'49" W	1,032.93'

SANITARY SEWER SCHEDULE

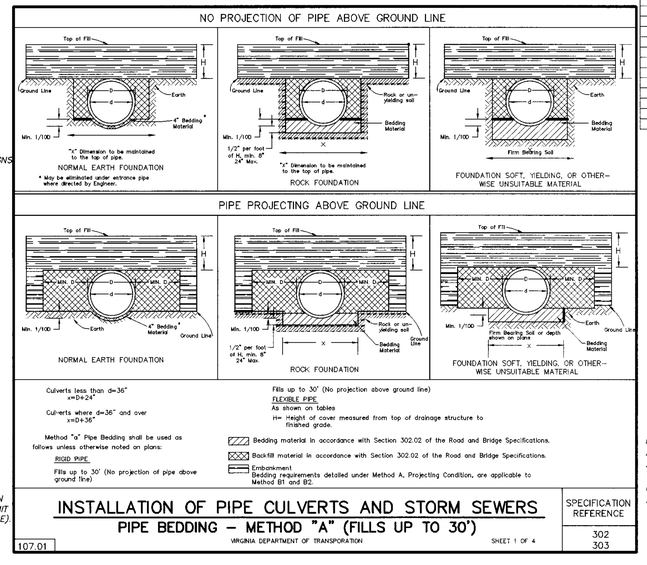
MH–MH	DIRECTION	DISTANCE
27–26	N18°46'49"W	266.04'
26–24	N17°08'04"W	276.73'
25–24	N54°42'15"E	121.65'
24–23A	N70°43'10"E	81.64'
23A–23	S88°48'06"E	87.30'
23–21	S60°39'06E	199.03'
22–21	S49°00'41"W	187.35'
21–17	S25°57'17"E	319.75'
20–19	N34°58'30"W	179.95'
19–18	N46°11'28"W	114.22'
18–17	S72°12'11"W	175.61'
17–16	S10°50'41"E	178.25'
16–15	S23°10'25"W	134.06'
15–1	S47°22'18"W	168.54'
14–13	S52°40'45"W	361.95'
13–12	S45°29'03"W	183.43'
12–6	S44°30'49"W	400.00'
11–10	N03°21'04"E	155.86'
10–7	N41°46'45"E	285.71'
9–8	N06°40'33"W	384.24'
8–7	N43°29'00"W	236.95'
7–6	N44°30'49"E	350.00'
6–5	S45°14'05"E	400.00'
5–4	S10°48'12"E	359.94'
4–3	S47°19'33"E	217.43'
3–2	S85°29'11"E	207.95'
2–1	N77°51'48"E	143.66'

MISS UTILITY OF VIRGINIA:

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR RIGHT OF WAY REQUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE)

GENERAL NOTES

1. FEBRUARY 1, 2001 EDITION OF ROAD AND BRIDGE SPECIFICATIONS AND FEBRUARY 1, 2001 EDITION OF THE ROAD DESIGNS AND STANDARDS OF THE VIRGINIA DEPARTMENT OF HIGHWAYS SHALL GOVERN THE FOLLOWING:
   A. POURING, CURING, FORMS, WORKMANSHIP, ETC. OF ALL CONCRETE USED ON THIS PROJECT.
   B. STABILIZED BASE COURSE MATERIAL.
   C. MATERIALS AND INSTALLATION OF ALL PIPE CULVERTS.
2. THE VDOT APPROVAL OF THESE PLANS WILL EXPIRE THREE (3) YEARS FROM DATE OF APPROVAL.
3. OWNER WILL FURNISH SURVEY CONTROL OFF SET HUBS FOR ALL ROADS AND EASEMENTS FOR ALIGNMENT AND GRADE. ROADS WILL BE STAKED ON ONLY ONE SIDE. REPLACEMENT OF THESE HUBS AND ANY OTHER STAKING WILL BE DONE BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL INSPECT THE CONTROL STAKING MENTIONED ABOVE AND VERIFY BEFORE CONSTRUCTION.
4. ALL GRADE STAKES DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED AT HIS EXPENSE.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE THE EXISTING RIGHT OF WAY STONES. ANY MARKERS DAMAGED SHALL BE REPLACED AT HIS EXPENSE.
6. CLEARING AND GRUBBING SHALL BE COMPLETE WITHIN THE RIGHT OF WAYS AS INDICATED ON LAYOUT PLAN.
7. ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED, AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS AND TO EXTEND TO A NATURAL WATERCOURSE.
8. EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
9. ALL FILLETS AT INTERSECTIONS TO HAVE 35' RADII UNLESS OTHERWISE NOTED.
10. GRADE LINES ON PROFILES DENOTE FINISHED GRADE OF CENTER LINE OF ROAD.
11. BASE MUST BE APPROVED BY VDOT FOR DEPTH, TEMPLATE, AND COMPACTION BEFORE SURFACE TREATMENT IS APPLIED.
12. PERMIT TO TIE INTO EXISTING ROADS, SHALL BE OBTAINED FROM RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION.
13. ALL UTILITIES TO BE IN PLACE PRIOR TO LAYING BASE MATERIAL.
14. NO STRUCTURE SHALL BE CONSTRUCTED ON STATE MAINATAINED RIGHTS OF WAY UNLESS SAID STRUCTURES ARE SHOWN ON ROAD CONSTRUCTION PLANS APPROVED BY VDOT OR SUCH STRUCTURES ARE COVERED BY A VDOT LAND USE PERMIT (OR BY A LETTER OF INTENT FROM THE RESIDENT ENGINEER TO ISSUE SAID PERMIT AT THE TIME OF STATE ACCEPTANCE).



CERTIFICATION

I, WE HEREBY CERTIFY THAT THE LOT LINES, LOT NUMBERS, BLOCK NUMBERS AND THE STREET NAMES SHOWN ON THESE PLANS ARE IDENTICAL TO THOSE SHOWN ON THE OFFICIAL RECORDED PLAT, AND NO CHANGES WILL BE MADE WITHOUT PRIOR APPROVAL FROM THE UTILITY DEPARTMENT. IF ANY CHANGES ARE APPROVED, REVISED WATER AND/OR SEWER PLANS WILL BE SUBMITTED WITHIN 48 HOURS AFTER APPROVAL.

SIGNATURE: Kathleen Halpaus

COMMONWEALTH OF VIRGINIA
DERRICK A. JOHNSON
Lic. No. 24761
5-5-10
PROFESSIONAL ENGINEER

VIRGINIA | NORTH CAROLINA | WEST VIRGINIA
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