



GENERAL NOTES

1. All construction methods and materials shall conform to the Construction Standards and Specifications of Riverside County, the Western Water State Authority, and the Virginia Department of Transportation.
2. Stormwater Management Agreements with an affected 8" or 10" or 12" or 15" or 18" or 24" or 30" or 36" or 42" or 48" or 54" or 60" or 66" or 72" or 78" or 84" or 90" or 96" or 102" or 108" or 114" or 120" or 126" or 132" or 138" or 144" or 150" or 156" or 162" or 168" or 174" or 180" or 186" or 192" or 198" or 204" or 210" or 216" or 222" or 228" or 234" or 240" or 246" or 252" or 258" or 264" or 270" or 276" or 282" or 288" or 294" or 300" or 306" or 312" or 318" or 324" or 330" or 336" or 342" or 348" or 354" or 360" or 366" or 372" or 378" or 384" or 390" or 396" or 402" or 408" or 414" or 420" or 426" or 432" or 438" or 444" or 450" or 456" or 462" or 468" or 474" or 480" or 486" or 492" or 498" or 504" or 510" or 516" or 522" or 528" or 534" or 540" or 546" or 552" or 558" or 564" or 570" or 576" or 582" or 588" or 594" or 600" or 606" or 612" or 618" or 624" or 630" or 636" or 642" or 648" or 654" or 660" or 666" or 672" or 678" or 684" or 690" or 696" or 702" or 708" or 714" or 720" or 726" or 732" or 738" or 744" or 750" or 756" or 762" or 768" or 774" or 780" or 786" or 792" or 798" or 804" or 810" or 816" or 822" or 828" or 834" or 840" or 846" or 852" or 858" or 864" or 870" or 876" or 882" or 888" or 894" or 900" or 906" or 912" or 918" or 924" or 930" or 936" or 942" or 948" or 954" or 960" or 966" or 972" or 978" or 984" or 990" or 996" or 1002" or 1008" or 1014" or 1020" or 1026" or 1032" or 1038" or 1044" or 1050" or 1056" or 1062" or 1068" or 1074" or 1080" or 1086" or 1092" or 1098" or 1104" or 1110" or 1116" or 1122" or 1128" or 1134" or 1140" or 1146" or 1152" or 1158" or 1164" or 1170" or 1176" or 1182" or 1188" or 1194" or 1200" or 1206" or 1212" or 1218" or 1224" or 1230" or 1236" or 1242" or 1248" or 1254" or 1260" or 1266" or 1272" or 1278" or 1284" or 1290" or 1296" or 1302" or 1308" or 1314" or 1320" or 1326" or 1332" or 1338" or 1344" or 1350" or 1356" or 1362" or 1368" or 1374" or 1380" or 1386" or 1392" or 1398" or 1404" or 1410" or 1416" or 1422" or 1428" or 1434" or 1440" or 1446" or 1452" or 1458" or 1464" or 1470" or 1476" or 1482" or 1488" or 1494" or 1500" or 1506" or 1512" or 1518" or 1524" or 1530" or 1536" or 1542" or 1548" or 1554" or 1560" or 1566" or 1572" or 1578" or 1584" or 1590" or 1596" or 1602" or 1608" or 1614" or 1620" or 1626" or 1632" or 1638" or 1644" or 1650" or 1656" or 1662" or 1668" or 1674" or 1680" or 1686" or 1692" or 1698" or 1704" or 1710" or 1716" or 1722" or 1728" or 1734" or 1740" or 1746" or 1752" or 1758" or 1764" or 1770" or 1776" or 1782" or 1788" or 1794" or 1800" or 1806" or 1812" or 1818" or 1824" or 1830" or 1836" or 1842" or 1848" or 1854" or 1860" or 1866" or 1872" or 1878" or 1884" or 1890" or 1896" or 1902" or 1908" or 1914" or 1920" or 1926" or 1932" or 1938" or 1944" or 1950" or 1956" or 1962" or 1968" or 1974" or 1980" or 1986" or 1992" or 1998" or 2004" or 2010" or 2016" or 2022" or 2028" or 2034" or 2040" or 2046" or 2052" or 2058" or 2064" or 2070" or 2076" or 2082" or 2088" or 2094" or 2100" or 2106" or 2112" or 2118" or 2124" or 2130" or 2136" or 2142" or 2148" or 2154" or 2160" or 2166" or 2172" or 2178" or 2184" or 2190" or 2196" or 2202" or 2208" or 2214" or 2220" or 2226" or 2232" or 2238" or 2244" or 2250" or 2256" or 2262" or 2268" or 2274" or 2280" or 2286" or 2292" or 2298" or 2304" or 2310" or 2316" or 2322" or 2328" or 2334" or 2340" or 2346" or 2352" or 2358" or 2364" or 2370" or 2376" or 2382" or 2388" or 2394" or 2400" or 2406" or 2412" or 2418" or 2424" or 2430" or 2436" or 2442" or 2448" or 2454" or 2460" or 2466" or 2472" or 2478" or 2484" or 2490" or 2496" or 2502" or 2508" or 2514" or 2520" or 2526" or 2532" or 2538" or 2544" or 2550" or 2556" or 2562" or 2568" or 2574" or 2580" or 2586" or 2592" or 2598" or 2604" or 2610" or 2616" or 2622" or 2628" or 2634" or 2640" or 2646" or 2652" or 2658" or 2664" or 2670" or 2676" or 2682" or 2688" or 2694" or 2700" or 2706" or 2712" or 2718" or 2724" or 2730" or 2736" or 2742" or 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3414" or 3420" or 3426" or 3432" or 3438" or 3444" or 3450" or 3456" or 3462" or 3468" or 3474" or 3480" or 3486" or 3492" or 3498" or 3504" or 3510" or 3516" or 3522" or 3528" or 3534" or 3540" or 3546" or 3552" or 3558" or 3564" or 3570" or 3576" or 3582" or 3588" or 3594" or 3600" or 3606" or 361

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- Western Virginia Water Authority
Availability letter number: _____
- LAUREL WOODS DR
LAUREL WAY DR
HANGING ROCK
POLARIS LN
KESTON LN
Various other roads and landmarks are shown.
- Vicinity Map**

[illegible]

ONE OTHER POINT FROM THE RESEARCHERS' PAPER:

The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction meeting.

The notes on this sheet shall not be modified.

PRIVATE UTILITIES

1. All construction methods and materials conform to the latest edition of the Design and Construction Standards and Specifications of the Western Virginia Water Pollution Control Board, and the project is subject to the jurisdiction of the local health authority at 603-545-5750. The project shall also comply with the governing local, state and federal laws and other agency standards (i.e., VDOT, DEC, DEC, VCR, etc.) where applicable.
2. A minimum cover of three (3) feet is required on all WWVW water and sewer lines.
3. All excavations shall be properly shored and braced to prevent collapse.
4. All utility work and verify location and status of all underground utilities in the area of construction prior to starting work.
5. A trench at all WWVW water or sewer lines on any development plan.
6. The location of existing utilities above or along the edge of proposed work are not necessarily shown on the plan. The contractor shall be responsible for locating all utilities on his own liability and on all extra cost, locate all underground lines and structures and shall be responsible for the protection of all existing utilities and structures. All damage incurred during excavating during construction shall be repaired at the contractor's expense.
7. Plans approved by WWVWA does not remove the contractor's responsibility to remove or relocate any existing conflicts before during construction.
8. All utility work shall be done in accordance with the standards and the (2) feet minimum horizontally from the outside of pipe to outside of pipe with all other underground utilities. The contractor shall be advised, additional measurements in accordance with the WWVWA standards shall be on the outside of pipe.
9. All utility grade adjustments shall be in accordance with WWVWA standards and the local health authority.
10. Field changes shall be submitted by the engineer of record to the locally and approved by the local health authority.

PR #:	NOTES:
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	WATERLINE & GAS LINE REL.
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Revision Table

SHEET No.	DESCRIPTION
T-101	CORNER SHEET
C-101	PROFILES, NOTES AND DETAILS
C-201	SITE OVERVIEW & CONDUIT PLAN
C-202	DEMECHANICAL PLAN
C-301	DIMENSIONAL LAYOUT
C-302	GRADING PLAN
C-601	PHASE I EROSION AND SEDIMENT CONTROL PLAN
C-602	PHASE II EROSION AND SEDIMENT CONTROL PLAN
C-603	EROSION & SEDIMENT CONTROL NOTES & DETAILS
C-701	WATER DETAILS

Sheet Index

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2019
by: Lumenitas Associates, P.C.

All vertical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or 1988. All horizontal elevations must be referenced to the North American Datum of 1927 or 1983.

Source of topographic mapping is dated: 2019

Boundary was performed by: Lumenitas Associates, P.C., dated 2019

Benchmark Information: As specified on sheet 4 of this plan.

The professional seal and signature certifies the boundary survey and topographic information shown on this plan.

QUANTITY & COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	REMARKS
CLEANING AND GRUBBING	AC				
VEGETATION	C.Y.				
DEMOLISHMENT	C.Y.				
CURB INLET 12"					
CURB INLET 18"	EA				
MANHOLE 18"	EA				
MANHOLE 30"	EA				
IN CONCRETE PIPE, CLASS II	LF				
IN CONCRETE PIPE, CLASS IV	LF				
IN C.M. CULVERT	LF				
IN C.M. CULVERT	LF				
BOX CULVERT	LS				
FIXED BRIDGE	LF				
REPAIR - CLASS	BF				
PERMANENT GRADE DRALE	EA				
IN CONCRETE ENDWALL CON.	EA				
IN END SECTION EA	EA				
HEADER CURB & GUTTER - GR.	LF				
CURB & GUTTER - CR.	LF				
VALLEY GUTTER	EA				
GRADU. BASE	BF				
GRADU. SHOULDER	BF				
SURFACE TREATMENT	BF				
IN BIT. CONC. TYPE 5	BF				
IN BIT. CONC. TYPE 5	BF				
IN BASE MATERIAL	C.Y.				
IN SUBBASE MATERIAL	C.Y.				
TRAFFIC BARRICADE	EA				
8" WATER LINE	LF				
8" WATER LINE	LF				
FIRE HYDRANT ASSEMBLIES	EA				
GRATE OPTS W/ VALV. 1" FRAME & COVER	EA				
IN DATE VALVES W/ VALV. 1" FRAME & COVER	EA				
IN DATE VALVES W/ VALV. 1" FRAME & COVER	EA				
8" GASTIGHT BENDER	LF				
STANDARD MANHOLE RIFTHAME & COVER	EA				
MANHOLE MANHOLE/ENTRY	EA				
LANDSCAPING	LS				
AMENITIES (INCLUDES BUT NOT LIMITED TO TREES, ETC.)	LS				
CONSTRUCTION MANAGEMENT	LS				
ADULT PLANT (STONE BARRIER SYSTEMS)	LS				
ADULT PLANT (STONE BARRIER MANAGEMENT)	LS				
CON. CONTINGENCY	LS				
ESTIMATED TOTAL					
BY SIGNING THIS CLAIM, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE CONDITIONS LISTED HEREIN MEETS THE CURRENT REQUIREMENTS OF THIS PROJECT.					

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P.O. BOX 20669
ROANOKE VIRGINIA 24018

LUMSDEN ASSOCIATES, P.C.
COMMISSION NUMBER:

2019-035

Lumden Associates PC

ENGINEERS | SURVEYORS | PLANNERS

ROANOKE COUNTY STORMWATER BUILDING
PREPARED FOR
ROANOKE COUNTY PUBLIC SERVICES
LOCATED ALONG
KESSLER MILL ROAD
ROANOKE COUNTY, VIRGINIA

SHEE
T-101