GENERAL NOTES

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SEPCIFICATIONS OF THE WESTERN WRORM ATTER AN INHORITY (AUTHORITY AVAILABLE AT WAW MESTERNAWATER ORG OR BY CONTACTING THE AUTHORITY AT 540–853–5700, AND SUPPLEMENTAL SPECIFICATIONS. THE PROJECT SHALL ALSO COMPLY WITH THE COVERNING AUTHORITY AT 540–853–5700, AND SUPPLEMENTAL SPECIFICATIONS.
- ALL CONNECTIONS TO ANY EXISTING SANITARY SEWERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING SEWERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, AND CLEAN THE EXISTING SEWERLINE PRIOR TO THE AUTHORITY PERFORMING HE TAP. THE CONTRACTOR SHALL NOTHEY THE AUTHORITY SHUTLITY DIVISOR AT 540-583-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION
- THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR FRIGHT TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTRACT HE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST FOR () DO AY PROOF TO INITIATION FOR MANHOLE CONNECTION.
- PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY, ALL APPLICABLE PERMIT(S) FROM THE GOVERNING JURISDICTION AND/OR AGENCY MUST BE OSTAINED AND A COPY KEPT ON THE PROJECT SITE. FOR WORK WITHIN THE CITY OF ROANOKE RIGHT-OF-WAY, THE CITY'S "RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS" SHALLE ADMERED TO.
- FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROAMOKE, NOTIFY MANAGER OF TRANSCORTATION, MARK MANISON, AT 50-083-4-541 AT LEAST TWO WERES IN ADVANCE OF REQUIRING TRAFFIC CONTROL FOR A LINE CLOSSIFE FREMIT IN THE CITY OF ROAMOKE, CONTACT THE TRAFFIC ENGINEER, HONG LUI, AT 540-083-2886. TRAFFIC CONTROL FOR ALINE CLOSSIFE FROM IN ACCORDANCE WITH THE MOST RECENT WINTOO MANIMAL AND THE VOOT WORK AREA PROTECTION MANIMAL UNLESS OTHERWISE SPICED.
- THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, MARK SINK, AT 540-537-3460 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- 7. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION
- THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 811
- 9. ALL EXISTING UTLITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THER EXACT LOCATION. CONTRACTOR SHALL LOCATE ALL UTLITIES AND DETERMENT ALL INVERTE PROIGH TO CONSTRUCTION TO ALLOY FOR ADJUSTMENTS DUE TO CONTRICTOR SHIPLING. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINA STATE WATERWORKS REQUILITIONS, SECTION 12VAC5-590-1150, AND THE VIRGINA STATE SEMAGE COLLECTION AND TEXT AMENT REQUILINGS WHERE LINES CROSS.
- SEWER LATERALS ARE SHOWN IN ASSUMED LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY FOR MARKING OF ALL SEWER LATERALS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTIVE LATERALS WITH THE AUTHORITY ASSISTANCE. CONTRACTOR SHALL LOCATE EASING ACTIVE LATERALS AND REPLACE LATERAL. AND CLARGOUT AT PROPERTY LINE AND CONNECT TO EXISTING PRIVATE LATERAL LATERALS SHALL BE INSTALLED WITH MINIMUM COVER OF 3" AND A MINIMUM SLOPE OF 0.50% LATERALS SHALL BE EQUAL TO OR GREATER THAN THE PIPE COLMETER AT THE PROPERTY LINE OR EXECUTED.
- 11. PROPOSED SEWER LATERALS ARE SHOWN IN ASSUMED LOCATIONS. CONTRACTOR SHALL LOCATE EXISTING LATERALS AND REPLACE LATERAL AND CLEAN OUT AND CONNECT TO EXISTING PRIVATE LATERAL. PROVIDE NEW CLEAN OUT AT PROPERTY LINE (OR EASEMENT LINE) FOR ACTIVE LATERALS.
- 12. AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- 13. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
- 14. PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FROM THE LOCAL GOVERNING JURISDICTION AND STORMWATER MANAGEMENT PERMIT FROM DCR (IF REQUIRED). ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- 15. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD— AND DUST—FREE CONDITION AT ALL TIMES.
- 16. FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION.
- 17. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- 18. CONSTRUCTION CREWS MUST ALLOW FOR SOLID WASTE MANAGEMENT TO SERVICE TRASH, RECYCLING, BULK, AND BRUSH FOR THE ENTIRE PROJECT AREA.
- MANHOLE RIMS SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT. PAVEMENT AROUND ADJACENT STRUCTURE SHALL BE MILLED AS REQUIRED TO MATCH PAVEMENT TO EXISTING STRUCTURES.
- 20. THE CONTRACTOR SHALL REPAIR ALL OPEN CUT PAVEMENT IN ACCORDANCE WITH DETAIL G-12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING, MANHOLE RIMS SHALL BE FLUSH WITH THE FINAL PAVEMENT.
- 21. UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNITL FINAL PAVING CAN BE COMPLETED.
- 22. THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH LENGTH THAN CAN BE RESTORED WITHIN THE SAME WORK DAY. ALL TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
- 23. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- 25. THE "OWNER" IS THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY). THE TERMS "OWNER" AND "AUTHORITY" ARE USED INTERCHANGEABLY IN THESE CONTRACT DOCUMENTS. DURING CONSTRUCTION THE AUTHORITY WILL ACT AS THE "ENGINEER".
- 26. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM CITY OF ROANOKE.
- 27. PAVEMENT SHALL BE IN ACCORDANCE WITH CITY OF ROANOKE AND VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) STANDARDS.
- 28. CONTRACTOR SHALL EXCAVATE A TEST PIT TO DETERMINE THE DEPTH AND SIZE OF ALL CROSSING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 29. SITE IS LOCATED NEAR RESIDENTIAL AREAS AND EXISTING RESIDENCES ARE LOCATED IMMEDIATELY ADJACENT TO SITE. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MINIMIZE DISTURBANCES TO ADJACENT PROPERTIES, INCLUDING PREVENTION OF DUST/DEBRIS INTRUSION ONTO PROPERTIES.
- 30. ANY FENCING WHICH IS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPLACED OR SUPPLEMENTED BY TEMPORARY FENCING OR BARRICADE SUITABLE FOR INTENDED PURPOSE OF EXISTING FENCING. CONTRACTOR SHALL PROMPTLY REPAIR AND/OR REPLACE DISTURBED FENCING TO EQUAL OR BETTER CONDITIONS.
- 31. EQUIPMENT STAGING AND STORAGE SHALL OCCUR OUTSIDE OF CITY RIGHTS-OF-WAY.
- 32. PAVED OR CONCRETE DRIVEWAYS WHICH ARE OPEN CUT OR DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH THE APPLICABLE DETAILS. LIMITS OF DRIVEWAY PAVEMENT RESTORATION ARE NOT SHOWN ON THE PLAN AND PROFILE SHEETS.
- 33. ALL DISTURBED AREAS SHALL BE RETURNED TO LIKE OR BETTER CONDITION WHETHER THEY ARE GRASSED, LANDSCAPED, GRAVELED, OR OTHER. ANY DISTURBED PLANTINGS SHALL BE REPLACED BY LIKE SPECIES.
- ROADS WHICH ARE OPEN CUIT SHALL BE PROMPTLY REPAIRED AS REQUIRED BY THE CITY. OPEN CUITS SHALL NOT BE PERMITTED DURING WINTER MONTHS WHERE COLD WEATHER WILL NOT PERMIT PROMPT REPAIR OF THE PAVEMENT DUE TO TEMPERATURES, LIMITS OF PAVEMENT RESTORATION ARE SHOWN ON THE PLAN AND PROFILE SHEETIS.
- 35. SEWER PIPE MATERIAL SHALL BE PER AUTHORITY STANDARDS UNLESS OTHERWISE INDICATED ON THE PLANS.
- 36. PROFILES SHOW SEWER SLOPES BASED ON SEWER LENGTH FROM MANHOLE CENTER TO MANHOLE CENTER. HOWEVER, PAYMENT SHALL BE MADE FOR LENGTH FROM INSIDE MANHOLE TO INSIDE MANHOLE.
- SEWER SLOPES ARE CALCULATED BASED ON SEWER LENGTH (LINEAR FEET) FROM MANHOLE CENTER TO MANHOLE CENTER. MANHOLE PENETRATION INVERTS AND SEWER SLOPES SHALL BE COORDINATED IN THE FIELD.
- 38. PORTIONS OF THE SANITARY SEWER TO BE REPLACED PASS UNDER EXISTING STORM SEWER SYSTEMS, DURING CONSTRUCTION CONTRACTOR SHALL PROTECT AND SUPPORT EXISTING STORM SEWER PIPE. CONTRACTOR IS ENCOURAGED TO PERFORM THESE TASKS ONLY DURING DRY WEATHER TO AVOID COMPRONISING OF STORM SEWER SYSTEM DURING A RAINFALL EVENT.
- 39. A MINIMUM OF 18" SEPARATION MUST BE MAINTAINED BETWEEN UTILITIES AT ALL PIPE CROSSINGS UNLESS OTHERWISE INDICATED ON THE DRAWNOS.

EROSION & SEDIMENT CONTROL NOTES

- FS-1: UNLESS OTHERWISE INDICATED, CONSTRUCT AND MAINTAIN ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, AND VIRGINIA PROJUCTURATIONS OF THE VIRGINIA PROJUCTURATION OF THE VIRGINIA PRO
- WWWA INSPECTORS WILL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS AND EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PLAN. WWWA MUST BE NOTHED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. ES-2:
- PLACE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING, OR LAND DISTURBANCE. ES-3:
- MAINTAIN A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREA), SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE ARCHITECT/ENGINEER FOR REVIEW AND ACCEPTANCE.
- PROVIDE ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WVWA. ES-6:
- ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT. ES-7:
- ES-8: DURING DEWATERING OPERATIONS, PUMP WATER INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. MAKE ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES IMMEDIATELY.

EROSION & SEDIMENT CONTROL LEGEND

No.	TITLE	KEY	SYMBOL
3.05	SILT FENCE	SF	xx
3.07	STORM DRAIN INLET PROTECTION	(P)	
3.08	CULVERT INLET PROTECTION	CIP	
3.32	PERMANENT SEEDING	PS	PS -
3.36	SOIL STABILIZATION BLANKETS & MATTING	B/M)	- (B/M) -

(SEE ES-1 FOR EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS)

- NOTES:
- The County of Meridian: Virginia State Pians, South Zona, (MAD 83) based upon: existing GPS control network.

 2) Vertical doublem NAD 88 based upon existing GPS control network.

 3) This survey was prepared without the benefit of a title commitment or title report and all easements and encumbrances that might be disclosed in a "little search" may not be shown.

- disclosed in a title search may not be shown.

 4.) Utilities shown are based upper compiled records only

 SNE Quality Level D. ASSC 38-02 viable evidence in conjunction with compiled records.

 SNE Quality Level C. ASSC 38-02 viable evidence in conjunction with compiled records.

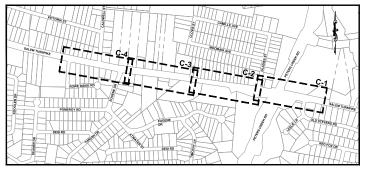
 SNE Quality Level C. ASSC 38-02 viable evidence in conjunction with compiled records.

 SNE Quality Level C. ASSC 38-02 viable evidence in conjunction with compiled records.

 SNE Quality Level C. ASSC 38-02 test pits to locations shown hereon performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Miles Utility, Ticket # ASSC 58-02 test pits to locations shown hereon performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Miles Utility, Ticket # SNE 58-02 test pits to locations shown hereon performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Miles Utility, Ticket # SNE 58-02 test pits to location shown hereon performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Other) in conjunction with field designation of the field of the f
- 6.) Contour interval: 1.
 7.) This survey was prepared for Western Virginia Water Authority. Draper Aden Associates assumes no liability for reuse or modification of this
- 8.) Property lines shown hereon are compiled from record information.
- 9.) Droper Aden Associates provides benchmarks for the construction of the improvements shown on these plans. All other existing elevations are for reference to existing conditions only. Do not use spot elevations, finish floor elevations, elevations on manholes, elevations on survey notes, existing conditions on manholes, elevations or aurice. Some provided benchmarks. Follows to utilize and verify the provided benchmarks could result in damages and additional cost that are the contractor's responsibility

PROJECT KEY

1" = 400'



GENERAL LEGEND

EXISTING		PROPOSED
1000	- CONTOURS -	1000
× 1561.3	GROUND ELEVATION	N/A
\sim	TREE LINE	N/A
	STREAM	N/A
	0.1.2.111	.,,
<i>€</i> 3 ○	DECIDUOUS TREE	N/A
WE	CONIFEROUS TREE	N/A
₹ 3	SHRUB	N/A
•	- EDGE OF PAVEMENT	N/A
xx	- FENCE	N/A
	PROPERTY LINE/ROW	N/A
0	IRON ROD FOUND	N/A
ě	IRON ROD SET	N/A
n	MONUMENT FOUND	N/A
_	MONUMENT SET	N/A
	- EASEMENT -	
	SIGN	N/A
•	METAL POST	N/A
•	WOOD POST	N/A
	STORM SEWER	N/A
0	STORM MANHOLE	N/A
ŏ	STORM DRAINAGE INLET	N/A
(Ī)	STORM STRUCTURE KEY	N/A
	SANITARY SEWER	.,
0	SANITARY SEWER CLEANOUT	•
0	SANITARY SEWER MANHOLE	
8		
(A)	SANITARY STRUCTURE KEY	(1)
uge —	- UNDERGROUND ELECTRIC	N/A
ohp	- OVERHEAD POWER	N/A
,	GROUND LIGHT	N/A
.¢.	LIGHT POLE UTILITY POLE	N/A N/A
©		N/A N/A
0	ELECTRIC MANHOLE	N/A N/A
-	ELECTRIC MARKER	N/A N/A
Œ	ELECTRIC BOX	
	GUY WIRE - WATER	N/A N/A
	GATE VALVE	N/A
9	AIR RELEASE VALVE	N/A
ō	BLOW OFF VALVE	N/A
ŏ	FIRE HYDRANT	N/A
ē	WATER METER & BOX	N/A
	- UNDERGROUND FIBER OPTIC	N/A
Ф	FIBER OPTIC PEDESTAL	N/A
F	FIBER OPTIC HANDHOLE	N/A
com	- GENERIC COMMUNICATION	N/A
ugc	- UNDERGROUND COMMUNICATION	N/A
	OVERHEAD COMMUNICATIONS	N/A
catv	- CABLE TV	N/A
©	CABLE TV MANHOLE	N/A
•	CABLE TV PEDESTAL	N/A
	TELEPHONE LINE	N/A
— oht —	OVERHEAD TELEPHONE	N/A
——ugt ——	- UNDERGROUND TELEPHONE	N/A
⊠	TELEPHONE BOX	N/A
•	TELEPHONE MANHOLE	N/A
٥	TELEPHONE PEDESTAL	N/A
-0-	TELEPHONE POLE	N/A
9	- GAS LINE	N/A
<u> </u>	GAS DRIP	N/A
∅	GAS METER	N/A
0	GAS VALVE	N/A
<u>A</u>	GAS VENT	N/A
©	GAS MANHOLE	N/A
	ASPHALT DRIVEWAY RESTORATION	
	ASPHALT DRIVEWAY RESTORATION CONCRETE DRIVEWAY RESTORATION	757, CI
N/A		EFFCH.
	CONCRETE DRIVEWAY RESTORATION	NAME AND ADDRESS OF THE PARTY O



PROPOSED

Associates

Aden.

Draper

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GENERAL ≥ Ш SALI REVISIONS

BSC / JSL WN BY: BSC / JYG AS SHOWN SEPTEMBER 2018 OJECT NUMBER: 17010596-010301

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