WN-2. ALL VALVES, BENDS, TEES, PLUGS, & CAPS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINING DEVICES IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS. CONCRETE ANCHORS IN LIEU OF MECHANICAL RESTRAINTS, IF APPROVED BY OWNER, SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS.

WN-3. WHEN LOCATED IN A VDOT RIGHT-OF-WAY, VALVE BOXES SHALL BE BURIED 2" BELOW GRADE WHEN IN THE SHOULDER AND FLUSH WITH PAVEMENT, IF LOCATED IN THE PAVEMENT. FIRE HYDRANTS SHALL BE LOCATED BEHIND THE DITCH LINE AND WATER MAINS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN ON THE PLANS.

WN-4. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES. WATER LINES SHALL BE LAID DEEPER WHERE SHOWN ON THE PROFILES, OR WHERE NECESSARY TO ACCOMODATE THE BURY DEPTH OF VALVES AND VALVE VAULTS.

WN-5. ALL DISTRIBUTION LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS.

WN-6. COMBINATION AIR RELEASE VALVES SHOWN ON PLANS SHALL BE FIELD LOCATED AT THE HIGH POINT IN THE WATER MAIN.

WN-7. NO BLOW OFF VALVE, AIR RELEASE VALVE, VACUUM BREAKER, OR OTHER FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SANITARY SEWER OR STORM DRAIN SEWER.

WN-8. THE CONTRACTOR SHALL CONTINUOUSLY KEEP UP TO DATE WITH PROPERTY RESTORATION, SEEDING AND COMPACTION TESTING.

WN-9. ALL PROPOSED WATER SERVICE LINES SHALL BE 1" UNLESS OTHERWISE

WN-10. ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS WHERE LINES CROSS.

WN-11. ALL TRENCHES IN EXISTING OR FUTURE VDOT RIGHTS-OF-WAY SHALL BE COMPACTED ACCORDING TO VDOT STANDARDS.

WN-12. ALL WATER PIPE SHALL BE MATERIAL AS SPECIFIED IN THE WVWA SPECIFICATIONS.

WN-13. A CONTINUOUS UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL PIPE. STONES AND ROCKS FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE AND TAMPED SELECTED FILL BEDDING PROVIDED. AFTER THE PIPE HAS BEEN PLACED IN THE TRENCH, THE TRENCH SHALL BE BACKFILLED WITH SELECTED MATERIAL, THOROUGHLY COMPACTED TO 95% UNDER PAVEMENT, OF THE STANDARD PROCTOR (ASTM D 698) USING CARE NOT TO DAMAGE THE PIPE.

WN-14. ALL EXISTING WATER SERVICES SHALL BE REPLACED WITH NEW SERVICES. ALL WATER SERVICES SHALL BE BORED UNLESS OTHERWISE NOTED. ALL WATER METERS SHALL BE INSTALLED BY THE WESTERN VIRGINIA WATER AUTHORITY. ALL WET AND DRY TAPS MADE TO THE EXISTING SYSTEM SHALL BE MADE BY THE WESTERN VIRGINIA WATER AUTHORITY.

WN-15. THE CONTRACTOR SHALL PROVIDE A LICENSED GEOTECHNICAL ENGINEER TO INSPECT BACKFILL MATERIAL AND PROVIDE COMPACTION TESTS AS REQUIRED BY THE VDOT LAND USE PERMIT.

WN-16. OPEN-CUTS SHALL BE USED TO CONSTRUCT WATERMAINS ACROSS EXISTING VDOT ROADS UNLESS THERWISE NOTED ON THE PLANS. ALL OPEN-CUTS SHALL BE PATCHED AS PER WVWA DETAIL G-12 AND THE AREA SHALL BE MILLED AND OVERLAYED WITH A SURFACE MIX TO BLEND THE NEW AND EXISTING

WN-17. EXISTING WATER SERVICE CROSSINGS ARE NOT SHOWN IN PROFILE FOR CLARITY. CONTRACTOR SHALL INSTALL WATERLINE AROUND EXISTING WATER

GENERAL NOTES:

1. ALL CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY) AVAILABLE AT WWW.WESTERNVAWATER.ORG. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER STANDARDS (E.G. VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.

2. ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE FULL STAINLESS STEEL TAPPING SLEEVE(S) AND VALVE(S). THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING WATER LINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, CLEAN THE EXISTING WATERLINE, AND INSTALL THE TAPPING SLEEVE AND VALVE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINES SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.

3. PRIOR TO CONSTRUCTION IN THE RIGHT OF WAY, ALL APPLICABLE PERMIT(S) FROM THE GOVERNING JURISDICTION AND/OR AGENCY MUST BE OBTAINED BY THE CONTRACTOR AND A COPY KEPT ON THE PROJECT SITE.

4. CONTRACTOR SHALL MAINTAIN UTILITY SERVICE TO ALL EXISTING CUSTOMERS THROUGHOUT CONSTRUCTION. THIS MAY REQUIRE TEMPORARY CONNECTIONS AND/OR RELOCATION OF EXISTING SERVICE LINES AND METERS.

5. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH THE LAND DISTURBING PERMIT REQUIRED BY VDOT FOR ALL WORK WITHIN THE VDOT RIGHT OF WAY.

6. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VIRGINIA WORK AREA PROTECTION MANUAL. ALL PAVEMENT REPAIRS SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION'S STANDARDS (VDOT) OR OTHER AGENCY STANDARDS WHERE APPLICABLE.

7. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, CHUCK CLARK. AT 540-537-3243 AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.

8. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE DAY PRIOR TO ANY CONSTRUCTION.

9. THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTRACTOR TO CONTACT MISS UTILITY AT 1-800-552-7001 PRIOR TO BEGINNING EXCAVATION A MINIMUM OF TWO (2) BUSINESS DAYS.

10. ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN EXACT LOCATION. CONTRACTOR SHALL LOCATE ALL UTILITIES AND DETERMINE ALL INVERTS PRIOR TO CONSTRUCTION TO ALLOW FOR ADJUSTMENTS DUE TO THE CONFLICTS WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS.

11. AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

12. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.

13. PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FOR THE LOCAL GOVERNING JURISDICTION (ROANOKE COUNTY) AND 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.

14. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

15. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFF ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES, DRIVEWAYS TO REMAIN ACCESSIBLE CONTRACTOR TO COORDINATE DRIVEWAY WORK WITH EACH INDIVIDUAL PROPERTY OWNER IN ADVANCE OF TAKING THE DRIVEWAY OFFLINE.

16. REMOVAL AND DISPOSAL OF EXISTING STRUCTURES SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS EXCEPT THE WORD ENGINEER SHALL BE CHANGED TO OWNER.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING. MANHOLE SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT. THE LONGITUDAL AND CROSS SLOPE OF THE MANHOLE MUST MATCH THE ROADWAY.

18. UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.

19. 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.

20. THE CONTRACTOR SHALL PROVIDE THE AUTHORITY WITH THE CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION IS GRANTED.

21. EXISTING IMPROVEMENTS THAT ARE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN THE SAME OR BETTER CONDITION, AT THE EXPENSE OF THE CONTRACTOR.

22. IN AREAS WHERE IT IS NECESSARY TO BENCH SLOPES TO INSTALL UTILITY LINES, FINAL SLOPES SHALL BE RESTORED TO THE ORIGINAL SLOPE OR TO THE SLOPE NECESSARY TO SUCCESSFULLY STABILIZE THE SLOPE.

23. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY ON THIS SITE. CONTRACTOR SHALL INSTALL ANY BARRIERS, TEMPORARY FENCING, FLASHERS, LIGHTING, OR ANY OTHER MEANS NECESSARY TO PROTECT UNAUTHORIZED PERSONNEL FROM HAZARDOUS AREAS.

24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SURROUNDING STRUCTURES. CONTRACTOR SHALL PROVIDE SHORING, OR OTHER MEANS NECESSARY TO PROTECT ADJACENT BUILDINGS AND PROPERTY.

25. EXISTING MAILBOXES NOT SHOWN FOR CLARITY.

26. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A MAINTENANCE OF TRAFFIC PLAN AS PER VDOT STANDARDS AND THE INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM 241.4. THE MAINTENANCE OF TRAFFIC PLAN SHALL BE

27. ANY LANE CLOSURES ALONG FRANKLIN ROAD OR OLD ROCKY MOUNT ROAD MUST OCCUR AT NIGHT BETWEEN THE HOURS OF 10 PM AND 6 AM. THE CURRENT EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL MUST BE ADHERED TO AT ALL TIMES.

28. ALL EXISTING ROADSIDE DITCHES IMPACTED BY THE PROPOSED CONSTRUCTION SHALL BE FINE GRADED TO DRAIN AND PERMANENTLY SEEDED AS SOON AS POSSIBLE.

29. ANY REQUIRED PAVEMENT DISTURBANCE MUST MEET OR EXCEED THE EXISTING PAVEMENT SECTION OR FOLLOW THE VDOT LUP-OCPR SPECIFICATIONS FOR PAVEMENT REPLACEMENT. ALL PAVEMENT MUST BE REPAIRED WITHIN 48 HOURS TO AVOID IMPACTING THE SAFETY OF THE TRAVELING PUBLIC.

30. BACKFILL MATERIAL AND COMPACTION WITHIN VDOT RIGHTS-OF-WAY MUST MEET OR EXCEED ALL REQUIREMENTS FOUND IN THE CURRENT EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, INDICATED ON THE PLANS OR NOT, NECESSARY TO ACCOMPLISH THE WORK.

2. CARE SHALL BE TAKEN TO PROTECT EXISTING VEGETATION, TREES, RETAINING WALLS AND OTHER IMPROVEMENTS NOT REQUIRED TO BE REMOVED FOR CONSTRUCTION.

3. CONTRACTOR SHALL REPLACE AND REPAIR ALL LAWNS, TERRACES, FENCES, SIDEWALKS, CURBS, CROSS WALKS, GUTTERS, DRIVEWAYS, OR PAVEMENTS, AND REPAIR AND MAKE GOOD ALL OTHER DAMAGE THAT MAY OCCUR DURING CONSTRUCTION WORK.

4. CONTRACTOR SHALL REPLACE AND REPAIR AFFECTED CONSTRUCTION AREAS WITH MATERIALS CONSISTENT WITH EXISTING CONDITIONS.

5. CONTRACTOR SHALL BECOME FAMILIAR WITH PROJECT AREA TO INCLUDE REPAIR AND REPLACEMENT COSTS IN BID.

TREE PROTECTION NOTES:

1. PROVIDE TEMPORARY FENCE AROUND DRIP LINE OF INDIVIDUAL TREES OR DRIP LINE OF GROUPS OF TREES TO

2. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL WITHIN DRIPLINE OF TREES TO REMAIN.

3. DO NOT PERMIT VEHICLES, EQUIPMENT, OR FOOT TRAFFIC WITHIN DRIPLINE OF TREES TO REMAIN.

4. WHERE EXCAVATION FOR NEW CONSTRUCTION IS REQUIRED WITHIN DRIPLINE OF TREES TO REMAIN, HAND CLEAR AND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS OR REQUEST A FIELD REVIEW WITH THE ENGINEER FOR APPROVAL OF AN ALTERNATE ROUTE.

FIELD ADJUSTMENT NOTES:

1. PROPOSED WATERLINE AND LATERAL ALIGNMENTS ARE BASED ON AVAILABLE INFORMATION AND INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND WATERLINE PIPING. INSTALL PIPING AS INDICATED. TO EXTENT PRACTICAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL LATERALS, EXISTING UTILITIES, ETC.

2. EXISTING CONDITIONS MAY NECESSITATE SLIGHT ADJUSTMENTS IN THE ALIGNMENT AND GRADE. FIELD ADJUSTMENTS MAY NOT BE MADE THAT REDUCE THE CAPACITY OR SERVICEABILITY WITHOUT APPROVAL FROM ENGINEER. ALL FIELD ADJUSTMENTS SHALL BE APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY.

3. FIELD ADJUSTMENTS SHALL BE MADE WHEN A LESS DISRUPTIVE CONSTRUCTION ACTIVITY AND DISTURBANCE TO PRIVATE PROPERTY WILL NOT RESULT IN AN INCREASE IN CONTRACT PRICE OR DELAY TO THE SCHEDULE.

4. FIELD ADJUSTMENTS RESULTING IN A CHANGE IN SCHEDULE OR CONTRACT PRICE SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO CHANGES IN CONTRACT SCHEDULE OR PRICE WILL BE MADE FOR FIELD ADJUSTMENTS MADE WITHOUT ENGINEER'S APPROVAL.

5. NONE WITHOUT APPROVAL OF THE CONSULTING ENGINEER AND ROANOKE COUNTY.

6. ANY NEW ALIGNMENTS, CHANGES IN GRADES, ALTERNATIVE PIPE SIZES OR MANHOLES WILL REQUIRE A NEW SET OF PLANS STAMPED BY THE CONSULTING ENGINEER. COUNTY ENGINEERS WILL REVIEW PLANS WITHIN ONE DAY OF SUBMITTAL. PLAN SHEETS CAN BE 8.5X11 IF THE INFORMATION IS LEGIBLE.

1. ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH STATE WATER WORKS REGULATIONS WHERE LINES CROSS.

2. CONTRACTOR SHALL CONSTRUCT CROSSING SUCH THAT EXISTING UTILITIES REMAIN FUNCTIONAL. CARE SHALL BE taken to prevent disruptions to existing utilities or undermining of supporting soils or structures.

3. CONTRACTOR SHALL EXERCISE CARE IN DETERMINING THE LOCATION OF ANY UNDERGROUND UTILITY TO AVOID DAMAGING OR DISRUPTING UTILITY SERVICE. IF CONTRACTOR INADVERTENTLY DAMAGES ANY UTILITY LINE OR CABLE, HE SHALL BE RESPONSIBLE FOR IMMEDIATELY CONTACTING THE AFFECTED UTILITY COMPANY FOR REPAIR, OR HAVE REPAIRED, THE DAMAGE AT HIS EXPENSE.

4. FOR UTILITIES THAT CANNOT BE DISTURBED OR TEMPORARILY REMOVED, CONSTRUCTION SHALL BE ACHIEVED BY TUNNELING, BORE & JACKING, OR A COMBINATION OF BOTH.

5. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ANY AFFECTED UTILITY COMPANY FOR COORDINATION OF RELOCATIONS OR TEMPORARY SHORING OF UTILITY.

6. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. UTILITIES MAY EXIST WITHIN THE CONSTRUCTION AREA OF THESE PLANS THAT ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES BEFORE COMMENCING WORK, AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE SUCH UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE CONTINUANCE OF SERVICE, CALL MISS UTILITIES AT 1.800.552,7001 (TOLL FREE) 48 HOURS BEFORE

GENERAL CONSTRUCTION NOTES:

1. DURING CONSTRUCTION, CONTRACTOR SHALL LIMIT DISRUPTION TO RESIDENTIAL ACCESS DRIVEWAYS, COORDINATE CONSTRUCTION ACTIVITIES THAT MAY AFFECT DRIVEWAYS WITH THE PROPERTY OWNER, AND PROVIDE OWNER WITH ACCESS BY END OF WORK DAY OR AS SOON AS POSSIBLE, DURING ALL TIMES OF CONSTRUCTION.

2. ALL WATER FIXTURES (METERS, VALVES, ETC...) INSTALLED BETWEEN EDGE OF PAVEMENT AND DITCH LINES SHALL BE INSTALLED FLUSH WITH EXISTING GRADE. FIXTURES INSTALLED BEYOND DITCHES SHALL BE INSTALLED TO MINIMIZE DISRUPTION DURING MAINTENANCE OF ROADWAY.

3. ALL SERVICE LATERALS SHALL BE DIRECTIONAL BORED UNDER EXISTING VDOT ROADWAYS, UNLESS OTHERWISE

4. SOILS FOR THIS SITE ARE UNCLASSIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE GEOTECHNICAL ENGINEER TO CLASSIFY SOILS, IF NEEDED

ABANDONMENT NOTES:

1. EXISTING WATERLINES SHALL BE ABANDONED IN-PLACE, INCLUDING ALL VALVES AND RELATED APPURTENANCES, IN ACCORDANCE WITH THE WWWA STANDARDS. ABANDONMENT OF WATERLINES AND/OR APPURTENANCES SHALL BE COORDINATED AND APPROVED BY THE WVWA.

2. AS PORTIONS OF THE EXISTING WATERLINE ARE ABANDONED, ASSOCIATED VALVE VAULTS ARE TO BE ABANDONED IN PLACE BY REMOVING THE FRAME & COVER AND FILLING VAULT WITH COMPACTED 21A STONE. PROJECT INSPECTOR WILL NOTIFY CONTRACTOR WHEN VAULTS CAN BE ABANDONED.

3. WVWA TO VISUALLY INSPECT EACH ABANDONED VAULT AFTER VAULT IS FILLED WITH STONE AND BEFORE BACKFILL MATERIAL IS PLACED OVER VAULT.

ALTHOUGH THIS DATA HAS BEEN TESTED BY ANDERSON & ASSOCIATES, NO WARRANTY EXPRESSED OR IMPLIED IS MADE BY ANDERSON & ASSOCIATES AS TO ITS ACCURACY, NOR SHALL THE FACT OF DISTRIBUTION CONSTITUTE ANY SUCH WARRANTY, AND NO RESPONSIBILITY IS ASSUMED BY ANDERSON & ASSOCIATES IN CONNECTION THEREWITH

SURVEYING NOTES:

1. THIS TOPOGRAPHY SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, NEIL MARTIN OF ANDERSON AND ASSOCIATES, INC. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION: THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED IN AUGUST 2011: AND THAT THIS PLAT, MAP, AND/OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

THIS TOPOGRAPHY SURVEY DOES NOT PURPORT TO BE A BOUNDARY SURVEY. UTILITIES SHOWN HEREON ARE PER ABOVE GROUND EVIDENCE CORRESPONDING WITH MISS UTILITY DESIGNATION.

CONTRACTOR SHOULD VERIFY UTILITIES BEFORE EXCAVATION. 4. CONTOUR INTERVALS AT 2 FOOT.

5. HORIZONTAL DATUM:NAD_83(CORS 96), VERTICAL DATUM:NAVD88 GEIOD09

SURVEY CONTROL TABLE HORIZONTAL DATUM:NAD 83(CORS96) VERTICAL DATUM:NAVD_88 GEIODO9					
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	3606983.805	11056078.783	1192.83	TRS	
2	3607214.757	11055816.409	1180.01	TRS	
3	3608972.903	11055023.608	1133.91	TRS	
4	3608720.639	11054537.340	1163.31	TRS	
5	3607699.816	11055625.289	1169.35	TNS	
6	3608403.030	11055378.211	1142.16	PKS	
97	3608572.821	11055063.244	1152.41	PKS	
130	3608243.165	11054980.342	1171.55	TNS	
186	3608166.954	11054795.559	1163.54	TNS	
304	3608079.461	11054634.007	1171.67	TNS	
336	3607943.597	11054427.308	1202.47	TNS	
361	3607844.648	11054285.219	1233.70	TNS	
399	3607946.495	11054166.107	1243.48	TNS	
449	3608347.382	11053913.130	1256.87	TNS	
450	3608704.830	11054304.113	1166.46	TNS	
472	3608524.584	11053829.993	1244.57 TNS		
517	3608704.631	11053850.781	1238.72 TNS		
552	3608715.602	11054186.211	1207.64	TNS	
1393	3607899.733	11055539.304	1157.56	TNS	
1504	3608145.819	11055520.256	1159.38	TNS	
1758	3608569.804	11055213.106	1140.49	TNS	

RCP=REINFORCED CONCRETE PIPE CMP=CORRUGATED METAL PIPE PVC=POLYVYNILCHLORIDE PIPE STMH=STORM MANHOLE SSMH=SANITARY SEWER MANHOLE APCO=AMERICAN ELECTRIC POWER VDOT=VIRGINIA DEPARTMENT OF TRANSPORTATION CONC.=CONCRETE LP=LIGHT POLE MH=MANHOLE PK=PAVEMENT NAIL FOUND FND=FOUND BM=BENCHMARK M.B.=MAP BOOK DB=DEED BOOK Pq=PAGE INST=INSTRUMENT AVE.=AVEUNE ST.=STREET N/F=NOW OR FORMERLY TNS=TRAVERSE NAIL SET TRS=TRAVERSE ROD SET PKS=PAVEMENT NAIL DI=DRAINAGE INLET FES=FLARED END SECTION FNC=FENCE GIS=GEOGRAPHIC INFORMATION SYSTEM

SANITARY SEWER CLEANOUT

<u>LLOLIU</u>			
W W	EDGE OF PAVEMENT		GUY WIRE
	PROPERTY LINE	•	SIGN
	EXISTING EASEMENT LINE	\otimes	GAS VALVE
ohp	OVERHEAD POWER	8	WATER VALVE
g	GAS LINE	-0-	POWER POLE
ss	SANITARY SEWER LINE		BENCHMARK
	WATER LINE	Δ	SURVEY CONTROL POINT
uge	UNDERGROUND ELECTRIC	-	FIRE HYDRANT
ugt	UNDERGROUND TELEPHONE	- \$-	LIGHT POLE
	STORM LINE		TREE
	GUARDRAIL	0	PROPERTY CORNER
	WET AREA	S	SEWER MANHOLE
	PLANTER		STORM MANHOLE
	FENCE LINE	Ī	TELEPHONE PEDESTAL
		W	WATER MANHOLE
		\bigcirc	TELEPHONE MANHOLE
		E	ELECTRIC PEDESTAL
		V	VDOT TRAFFIC CONTROL BOX
		owm	WATER METER

MATERIAL STAGING NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING A SUITABLE STAGING AREA FOR THE PROJECT. CONTRACTOR TO PROVIDE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN TO THE COUNTY OF ROANOKE ONCE A SITE LOCATED. STAGING AREA SHALL BE COORDINATED AND APPROVED BY THE COUNTY OF ROANOKE BEFORE THE PRECONSTRUCITON MEETING.

ANDERSON & ASSOCIATES, INC. Professional Design Services

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DESIGNED: BJM DRAWN : BJM CHECKED: DAA QA / QC : JKD

DATE : 13 APR 12

NOTES ADDED 1ST REVIEW RECORD

COMMENTS

06 JUL 12 04 SEP 13

04 JUN 12

SOUTH PEAK DEVELOPMENT PHASE I WATER SYSTEM IMPROVEMENTS

PROJECT NOTES 1

DOCUMENT NO. 26787 - 003OF