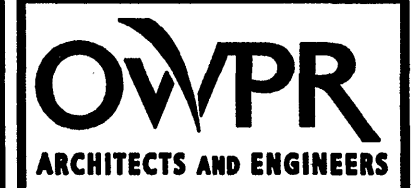
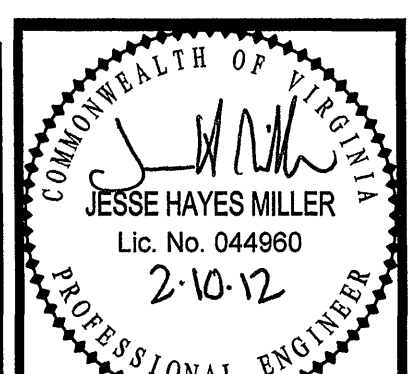


WATER PIPE MATERIAL NOTE
WATER PIPE PRIOR TO METER TO BE DUCTILE IRON. WATER PIPE PAST THE NEW WATER METER VAULT MAY BE DUCTILE IRON OR PVC C900

SANITARY PIPE MATERIAL NOTE
SANITARY PIPE SHALL BE DUCTILE IRON LINED WITH PROTECTO 401 BETWEEN STRUCTURES A AND D. SANITARY PIPE BETWEEN STRUCTURES D AND G MAY BE LINED DUCTILE IRON OR PVC SDR35.

- GENERAL UTILITY NOTES**
- ALL WATER LINE AND SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, LATEST EDITION, AND THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL CONTACT "MISS UTILITY" (800-552-7001) FOR MARKING OF UTILITIES 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
 - UTILITIES SHOWN ON THESE PLANS REPRESENT UTILITY LOCATIONS AS DETERMINED FROM A FIELD SURVEY OF ABOVE GROUND UTILITY FEATURES AND RECORD DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITY LOCATIONS, DEPTHS, AND SIZES PRIOR TO CONSTRUCTION. IF EXISTING CONDITIONS ARE DIFFERENT THAN THAT WHICH IS SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
 - THERE MAY EXIST UTILITIES WHICH HAVE NOT BEEN SHOWN ON THE PLANS AND OF WHICH THERE IS NO RECORD. IF ACTIVE UTILITIES ARE ENCOUNTERED WHICH WERE NOT INDICATED ON THE DRAWINGS, CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND THE ARCHITECT/ENGINEER IMMEDIATELY. CONTRACTOR SHALL TAKE NECESSARY STEPS TO RESTORE UTILITY SERVICE TO ANY DAMAGED UTILITIES AS SOON AS POSSIBLE.
 - THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WITH CONSTRUCTION.
 - ALL UTILITIES WILL BE VISUALLY INSPECTED BY THE WESTERN VIRGINIA WATER SERVICE AUTHORITY INSPECTOR PRIOR TO BACKFILLING TRENCHES.
 - CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING WATER LINES WITH THE WESTERN VIRGINIA WATER AUTHORITY.
 - THERE SHALL BE A PRE CONSTRUCTION MEETING WITH THE CONTRACTOR, ARCHITECT/ENGINEER, AND THE WESTERN VIRGINIA WATER SERVICE AUTHORITY PRIOR TO BEGINNING CONSTRUCTION.
 - ALL NEW UTILITIES SHALL BE LOCATED UNDERGROUND.
 - PROVIDE CONCRETE THRUST BLOCKS AT EVERY HORIZONTAL AND VERTICAL CHANGE IN WATER MAIN DIRECTION, TEES, PLUGS, CAPS, AND HYDRANTS. APPLIES TO WATER MAINS 6" OR GREATER IN SIZE. 4" FIRE DEPT CONNECTION SHALL ALSO RECEIVE THRUST BLOCKS.
 - PRESSURE TEST AND DISINFECTION OF WATER MAIN SHOULD BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - ACCEPTANCE TESTS OF SANITARY SEWER MAIN SHOULD BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - THE WATER SERVICE FOR THIS PROJECT WILL REQUIRE A CONCRETE VAULT. PLEASE CONTACT CLEAR FLOW AT (540)942-3300 TO ORDER THE VAULT. THE APPLICANT IS RESPONSIBLE FOR PAYMENT, COORDINATION OF THE VAULT DELIVERY, AND INSTALLATION OF THE WATER SERVICE THE AUTHORITY MAIN AND THE VAULT. CONTACT THE AUTHORITY INSPECTOR AT 537-3243 PRIOR TO CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR ALL ASPECTS AND COMPONENTS OF THE METER SERVICE AND VAULT IN ACCORDANCE WITH AUTHORITY STANDARDS, INCLUDING BUT NOT LIMITED TO PAVEMENT RESTORATION, THE TAPPING SLEEVE, VALVE AND APPURTENANCES. CONTRACTOR TO EXCAVATE AND INSTALL TAPPING SLEEVE AND VALVE. THE WET TAP WILL BE MADE BY THE AUTHORITY UPON PAYMENT AND SCHEDULING.
 - CONTRACTOR TO PROVIDE CALCULATIONS AND DETAILS SEALED BY A REGISTERED ENGINEER IN THE STATE OF VIRGINIA FOR LIGHT POLE BASE/FOUNDATION.
 - FOR SEWER LATERAL CONNECTION, CONTRACTOR SHALL CORE DRILL THE MANHOLE AND PROVIDE A RUBBER BOOT. CONTRACTOR SHALL CONTACT WWA INSPECTOR AT (540) 537-2460 PRIOR TO DRILLING.



REVISIONS:
NOVEMBER 30, 2011
RC COMMENTS & BID
ADDENDUMS 1, 2, AND 3
FEBRUARY 10, 2012
FOR CONSTRUCTION

A NEW BUILDING FOR
ROANOKE COUNTY PUBLIC LIBRARY
GLENVAR BRANCH LIBRARY
3917 DAUCHERTY ROAD
SALEM, VIRGINIA 24153

DATE: NOVEMBER 01, 2011
PROJECT NO: 1107
SCALE: AS NOTED

UTILITY PLAN

C2.1

216.241.1100
1382 West Ninth Street
Suite 300
Cleveland, Ohio 44113
www.HBMArchitects.com

Jesse Miller - E:\2011 Projects\1107\CD\DWG\C2.1 UTILITY PLAN.dwg - Thu, 09 Feb, 2012 - 11:00

WATER COORDINATE LIST			WATER COORDINATE LIST		
POINT #	NORTHING	DESCRIPTION	POINT #	NORTHING	DESCRIPTION
2001	N.347512.62 E.2807264.09	CONNECT TO EX. 8"	2010	N.347593.37 E.2807051.27	22½" VERT.BEND
2002	N.347526.69 E.2807256.47	22½" VERT.BEND	2011	N.347582.11 E.2807030.47	TEE
2003	N.347530.21 E.2807254.57	22½" VERT.BEND	2012	N.347576.31 E.2807019.75	45° HORZ.BEND
2004	N.347623.27 E.2807204.16	GRADE BREAK	2013	N.347561.88 E.2807015.46	45° HORZ.BEND
2005	N.347658.91 E.2807184.86	45° HORZ.BEND	2014	N.347649.05 E.2807173.14	F.H. ASSEMBLY
2006	N.347661.32 E.2807176.73	45° HORZ.BEND	2015	N.347590.95 E.2807025.68	F.H. ASSEMBLY
2007	N.347657.05 E.2807168.84	TEE	2016	N.347576.30 E.2807011.24	45° HORZ.BEND
2008	N.347649.35 E.2807154.61	GRADE BREAK	2017	N.347618.81 E.2807023.88	F.H. ASSEMBLY
2009	N.347606.46 E.2807075.43	GRADE BREAK			

SANITARY SEWER SCHEDULE				
STRUCTURE	COORDINATE	TOP ELEV	LOWEST INVERT	
A (EXISTING)	N. 347582.26 E. 2806839.73	1094.75	1086.50	
B	N. 347587.00 E. 2806848.54	1095.53	1086.60	
C	N. 347617.76 E. 2806897.28	1098.29	1087.18	
D	N. 347657.64 E. 2806960.45	1102.27	1094.64	
E	N. 347581.05 E. 2807054.93	1102.21	1097.07	
F	N. 347615.42 E. 2807118.38	1102.78	1098.52	
G	N. 347594.17 E. 2807129.89	--	1099.00	

As-Built 9.25.12 K. Winslow