

**GENERAL NOTES**

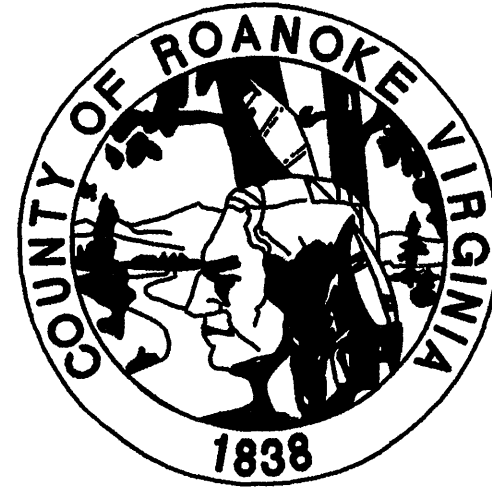
**PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:**

- All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation.
- Stormwater Management Agreements with an attached 8 1/2" x 11" or 8 1/2" x 14" plat must be approved and recorded prior to the pre-construction meeting.
- Once all required items are submitted to the County of Roanoke, the developer must contact the Development Review Coordinator to indicate that a pre-construction meeting needs to be scheduled. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
- Please note the 2001 General Assembly revisions to Va Erosion and Sediment Control Law. Effective July 1, 2001, all land disturbing projects that require approval of an erosion and sediment control plan, grading or clearing permit shall require that the applicant provide the name of an individual who will be responsible for land disturbing activities and that this individual hold a Responsible Land Disturber (RLD) Certificate from the Department of Conservation and Recreation. The Responsible Land Disturber can be anyone from the Project team that is certified by the State of Virginia to be in charge of carrying out the land disturbing activity for the project.
- It is the responsibility of the owner/developer to notify the certified Responsible Land Disturber and the Utility Contractor to attend the pre-construction meeting.
- The Development Review Coordinator will schedule the pre-construction meeting with the County Review Engineer, the County Inspector, and the Western Virginia Water Authority and the Town of Vinton Public Works Department if applicable.
- An approved set of plans and all permits must be available at the construction site at all times.
- The developer and/or contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.
- The project engineer will inform the owner/developer verbally and in writing of the County's obligation to perform inspections on site. Everyone in the meeting will be required to sign a pre-construction checklist indicating their knowledge of Roanoke County's obligation to perform inspections on site.
- The Erosion Control Permit is given to the developer at this pre-construction meeting.
- The developer **MUST** contact the project inspector 24 hours before beginning any grading or construction on the property.
- The project inspector will visit the site within 48 hours of the developer's call to ensure that all necessary erosion and sediment control measures are properly installed according to the approved plan.
- All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and the Virginia Department of Transportation Inspectors.
- Contractors shall notify utilities of proposed construction at least two (2), but not more than ten (10) working days in advance. Area public utilities may be notified thru "Miss Utility"; 1-800-552-7001.
- 100 year Floodway and Floodplain information shall be shown where applicable. FIRMI Index Date shall be shown on the plans. The 100 year Floodway shall be staked prior to any construction.
- Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all times of construction.
- The Department of Community Development shall be notified when a spring is encountered during construction.
- Construction debris shall be contained in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.
- The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets or rights of ways. It is the contractor's responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
- Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control policies.
- Field construction shall honor proposed drainage divides as shown on plans.
- Field corrections shall be approved by the Roanoke County Engineering Division and/or the Western Virginia Water Authority and the Professional of Record, prior to such construction.
- The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Built plans before final acceptance.

**VIRGINIA DEPARTMENT OF TRANSPORTATION:**

- Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
- A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
- The preliminary pavement designs should be based on a predicted sub-grade CDR value of 7.0 and with a Resiliency Factor (RF) of 2.0 as shown in Appendix I of the 2000 Virginia Department of Transportation Pavement Design Guide for Subdivision and Secondary Roads. The sub-grade soil is to be tested by an independent laboratory and the results submitted to the Virginia Department of Transportation prior to base construction. Should the sub-grade CBR value and/or the RF value be less than the predicted values, additional base material will be required in accordance with Departmental specifications. Refer to the same manual as the number and locations of the required soil samples to be tested. All pavement designs shall be submitted to the Department for review and approval. The sub-grade shall be approved by the Virginia Department of Transportation prior to placement of the base. Base shall be approved by the Virginia Department of Transportation for depth, template, and compaction before the surface is applied.
- Standard guardrail with safety end sections may be required on fills or in areas where hazards exist as deemed necessary. After completion of rough grading operations, the County Engineer and Virginia Department of Transportation shall be contacted to schedule a field review. Where guard rail is warranted, the standard shoulder width shall be provided and the guard rail shall be installed in accordance with the 2001 VDOT Road and Bridge Standards as part of this development.
- Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
- All traffic devices shall be in accordance with current edition of the manual: "Uniform Traffic Control Devices (MUTCD)"
- All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

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. No additional notes may be added to this cover sheet.



# County of Roanoke, Va

NAME OF DEVELOPMENT	ROANOKE COUNTY PUBLIC LIBRARY SOUTH COUNTY LIBRARY	OWNER/DEVELOPER	AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE ROANOKE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS AND THE THIRTY (30) POINTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.
MAGISTERIAL DISTRICT(S)	CAVE SPRING		
OWNER (name, address, telephone)	ROANOKE COUNTY, P.O. BOX 29800, ROANOKE, VA 24018, (540)772-2065		
DEVELOPER (name, address, telephone)	ROANOKE COUNTY, P.O. BOX 29800, ROANOKE, VA 24018, (540)772-2065		
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)	OWPR, INC., 200 COUNTRY CLUB DRIVE, SW, PLAZA ONE, BUILDING E BLACKSBURG, VIRGINIA, 24060, (540)552-2151		
TAX MAP NO(S)	097-05-01-26.00-0000		

**WATER NOTES**

All water facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards/ (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering valve vaults after paving and adjustment to final grade if necessary.

All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12.05.03, where lines cross.

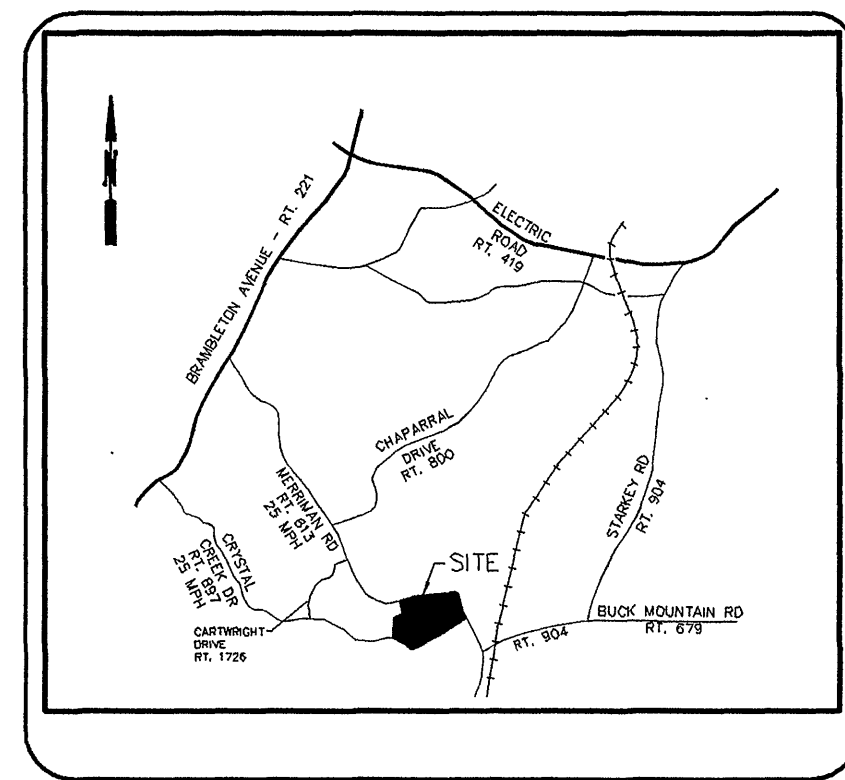
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

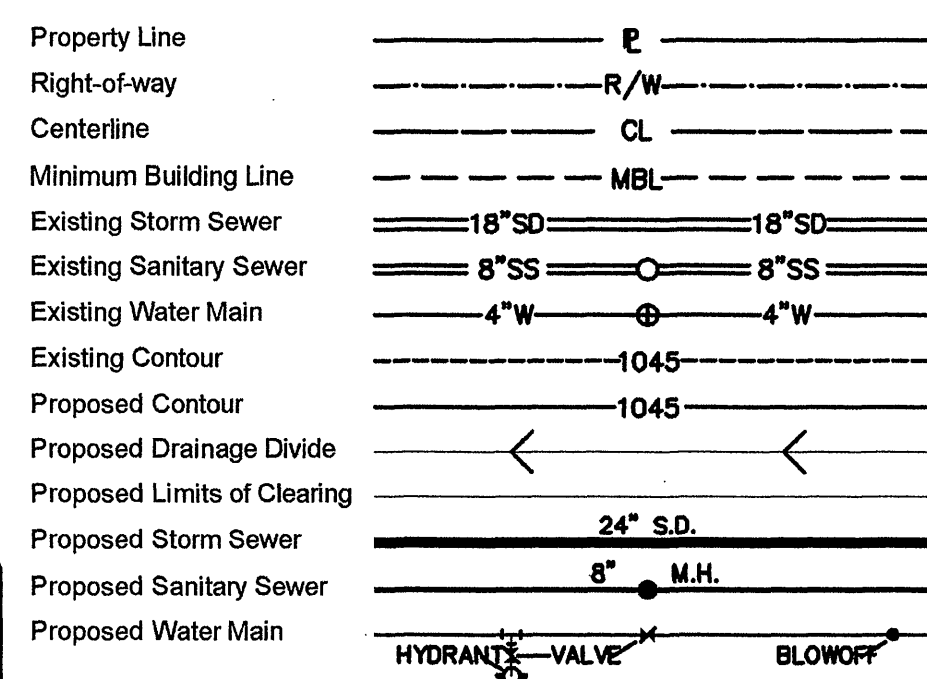
Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Water Authority Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 p.s.i.

Western Virginia Water Authority  
Availability letter number: 07-0458



Vicinity Map



**SEWER NOTES**

All sanitary sewer facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards. (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering all manholes after paving. Manhole tops shall be adjusted to grade if necessary.

All existing utilities may not be shown in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12.05.03, where lines cross.)

All trenches in existing or future rights-of-way shall be compacted according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

**PRIVATE UTILITIES**

Underground utilities installed on private property or in private utility easements and building related storm drains shall be designed and installed per the current edition of the Virginia Uniform Statewide Building Code. Design and installation requirements issued by the Western Virginia Water Authority that meet or exceed the USBC requirements are acceptable for private utilities. All private utilities are to be permitted through and inspected by the Roanoke County Inspections Office. Vaults, valves and other devices installed by or under the control of the Western Virginia Water Authority may not substituted for the code required devices.

C0.0	ROANOKE COUNTY COVER SHEET
C0.1	SURVEY OF EXISTING CONDITIONS
C1.1	OVERALL SITE PLAN
C1.2	DIMENSIONAL PLAN
C1.3	DIMENSIONAL PLAN DETAILS
C1.4	RETAINING WALL PLAN & PROFILES
C1.5	RETAINING WALL DETAILS
C1.6	RETAINING WALL SECTIONS
C1.7	ALTERNATE RETAINING WALL SECTIONS
C1.8	LANDSCAPING PLAN
C1.9	LANDSCAPING NOTES & DETAILS
C2.1	UTILITY PLAN
C2.2	WATERLINE PROFILES & LIGHTING DETAILS
C2.3	WATERLINE DETAILS
C2.4	SANITARY SEWER PROFILE & DETAILS
C3.1	GRADING PLAN
C3.2	STORM DRAINAGE PLAN
C3.3	STORM DRAINAGE PROFILES
C3.4	STORM DRAINAGE DETAILS
C3.5	FILTERRA DETAILS
C4.1	EROSION & SEDIMENT CONTROL PLAN STAGE ONE
C4.2	EROSION & SEDIMENT CONTROL PLAN STAGE TWO
C4.3	EROSION & SEDIMENT CONTROL NARRATIVE & NOTES
C4.4	EROSION & SEDIMENT CONTROL DETAILS
C4.5	EROSION & SEDIMENT CONTROL DETAILS
C4.6	ROANOKE COUNTY EROSION CONTROL DETAILS

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**SURVEY INFORMATION**

Horizontal and vertical control surveys were performed in year: 2007 & 2008  
By: CALDWELL WHITE ASSOCIATES & LUMSDEN ASSOCIATES  
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: MAY 2, 2007 & JANUARY 24, 2008  
Boundary was performed by LUMSDEN ASSOC. dated: JANUARY 24, 2008  
Benchmark Information: BENCHMARK LOCATIONS & DESCRIPTIONS SHOWN ON C1.1 OVERALL SITE PLAN

The professional seal and signature certifies the boundary survey and topographic mapping to be accurate and correct.

**QUANTITY & COST ESTIMATE**

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING	7.5	ACRES	1500	11,250	
EXCAVATION	30,000	C.Y.	5	150,000	
EMBANKMENT	36,000	C.Y.	5	175,000	
CURB INLET DI-1	8	EACH	2500	20,000	
CURB INLET DI-3B	3	EACH	3000	9,000	
CURB INLET DI-7	1	EACH	3000	3,000	
MANHOLE MH-1	5	EACH	2000	10,000	
12 - IN. CONCRETE PIPE, CLASS III	30	LIN. FT.	36	1,080	
15 - IN. CONCRETE PIPE, CLASS III	300	LIN. FT.	45	13,500	
18 - IN. CONCRETE PIPE, CLASS III	1,000	LIN. FT.	54	54,000	
24 - IN. CONCRETE PIPE, CLASS III	140	LIN. FT.	72	10,080	
-IN. C.M. CULVERT	0	LIN. FT.	-	-	
BOX CULVERT	0	LUMP SUM	-	-	
PAVED DITCH	585	LIN. FT.	40	23,400	
RIPRAP - CLASS I	500	S.F.	13	6,500	
SOODED SWALE	750	S.Y.	20	15,000	
24-IN. END SECTION ES-1	5	EACH	1,000	5,000	
SEGMENTAL BLOCK RETAINING WALL	1,950	S.F.	90	175,500	
CONC WALKS & PATIOS	15,000	S.F.	9	137,250	
FILTERRA BIoretENTION SYSTEM - 6x8	1	EACH	6,500	6,500	
FILTERRA BIoretENTION SYSTEM - 6x8	1	EACH	8,250	8,250	
FILTERRA BIoretENTION SYSTEM - 6x10	3	EACH	10,000	30,000	
FILTERRA BIoretENTION SYSTEM - 6x12	2	EACH	12,000	24,000	
HEADER CURB & GUTTER CG-2	3,215	LIN. FT.	10	32,150	
CURB & GUTTER CG-6	1,650	LIN. FT.	15	24,750	
ENTRANCE GUTTER CG-6D	30	LIN. FT.	25	750	
VALLEY GUTTER	0	EACH	-	-	
GRAVEL SHOULDER	0	S.Y.	-	-	
SURFACE TREATMENT	0	S.Y.	-	-	
2 - IN. BIT. CONC. TYPE SM - 9.5A	11,955	S.Y.	25	298,875	
3 - IN. BIT. CONC. TYPE SM - 19.0A	375	S.Y.	20	7,500	
8 - IN. BASE MATERIAL TYPE 2-B	2,750	C.Y.	15	41,250	
TRAFFIC BARRICADE	0	EACH	-	-	
8" WATER LINE	1025	LIN. FT.	30	30,750	
6" WATER LINE	150	LIN. FT.	20	3,000	
FIRE HYDRANT ASSEMBLIES	2	EACH	5,000	10,000	
BLOW OFFS W/VAULT, FRAME & COVER	0	EACH	-	-	
8-IN. GATE VALVES, W/VAULT, FRAME & COVER	4	EACH	1,400	5,600	
8-IN. GATE VALVES, W/VAULT, FRAME & COVER	1	EACH	1,000	1,000	
6" SANITARY SEWER	720	LIN. FT.	18	12,960	
STANDARD MANHOLE W/FRAME & COVER	3	EACH	2,000	6,000	
SAMPLING MANHOLE/PORT	0	EACH	-	-	
LANDSCAPING	50,000	LUMP SUM	50,000	50,000	
AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC...)	10,000	LUMP SUM	10,000	10,000	
AS-BUILT PLANS	5,000	LUMP SUM	5,000	5,000	
10% CONTINGENCY				142,740	
ESTIMATED TOTAL				1,570,135	157,014

I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.  
SIGNED: *William A. Sheltou* DATE: 6/1/09  
DATE: 06/01/09 SHEET 1 OF 22

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www.owpr.com

**OWPR**  
ARCHITECTS AND ENGINEERS

Nora,  
B.S. already has all the info. he needs from these plans. This is as close to an As-Built that we will ever get. Please scan & Link.  
Rogin  
Substantial Completion: 12/08/2011

New Facility for  
**South Roanoke Library**  
Merriman Road  
Roanoke, Virginia

South Roanoke Library  
(4/1/09)