

# County of Roanoke, VA

## GENERAL NOTES

### PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

1. All construction methods and materials shall conform to the Construction Code of the County of Roanoke, Virginia, and the Virginia Department of Transportation.
2. Stormwater Management Agreements with an attached 8 1/2" x 11" or 8 1/2" x 14" pad must be approved and recorded prior to the pre-construction meeting.
3. 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 will be held. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
4. Please note the 2001 General Assembly revisions to Va Erosion and Sediment Control Law. Effective July 1, 2001, all land disturbing projects that require a permit shall be subject to the Virginia Department of Transportation's erosion and sediment control requirements. The applicant must 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.
5. 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.
6. 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.
7. An approved set of plans and all permits must be available at the construction site at all times.
8. 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.
9. 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.
10. The Erosion Control Permit is given to the developer at the pre-construction meeting.
11. The developer MUST contact the project inspector 24 hours before beginning any grading or construction on the property.
12. 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.
13. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation inspectors.
14. 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.
15. 100 year Floodway and Floodplain information shall be shown where applicable. FIRM Index Date shall be shown on the plans. The 100 year Floodway shall be staked prior to any construction.
16. Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all lines of construction.
17. The Department of Community Development shall be notified when a spring is encountered during construction.
18. Construction debris shall be containerized in accordance with the Virginia Liter Control Act. No less than one liter receptacle shall be provided on site.
19. 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 contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control policies.
21. Field construction shall honor proposed drainage divides as shown on plans.
22. 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 construction.
23. 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:

24. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
25. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
26. The preliminary pavement designs should be based on a predicted sub-grade CBR value of 7.0, consistent 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.
27. 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 required, it shall be installed within 30 days of rough grading and shall be installed in accordance with the 2001 VDOT Road and Bridge Standards as part of this development.
28. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
29. All traffic devices shall be in accordance with current edition of the manual: "Uniform Traffic Control Devices (MUTCD)"
30. 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. This sheet may not be modified.

## 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 (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 with AWWA C151 or D1514 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: NA - TOWN OF VINTON

## 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 shall 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. Valves, valves and other devices installed by or under the control of the Western Virginia Water Authority may not substituted for the code required devices.

## SHEET INDEX

C-1	COVER SHEET
C-2	OVERALL LAYOUT PLAN
C-3	CONSTRUCTION NOTES
C-4	CONSTRUCTION DETAILS
C-5	DIMENSIONAL PLAN
C-6	GRADING PLAN
C-7	ROAD & UTILITY PROFILES
C-8	ROAD & UTILITY PROFILES
C-9	ESC PLAN
C-10	ESC DETAILS
C-11	ESC DETAILS
C-12	SWM POND IMPROVEMENTS
C-13	OFF-SITE IMPROVEMENTS
C-14	VDOT TRAFFIC PLAN
C-15	STANDARD UTILITY DETAILS
C-16	STANDARD UTILITY DETAILS
C-17	STANDARD UTILITY DETAILS

## SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year 2006

By: BALZER AND ASSOCIATES, INC.

Horizontal distances are referenced to the National Geodetic Vertical Datum of 1988.

Horizontal distances are referenced to the North American Datum of 1983.

Source of topographic mapping is: COUNTY OF ROANOKE-GIS, dated: 1992

Boundary was performed by: BALZER AND ASSOCIATES, INC., dated: 2006

Benchmark Information: BENCHMARKS HAVE BEEN SHOWN ON ALL GRADING SHEETS

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

## QUANTITY & COST ESTIMATE

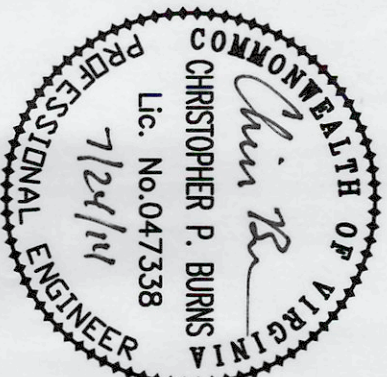
ITEM	QUANTITY	UNIT	UNIT PRICE	COST	REMARKS
CLEARING AND GRUBBING	7.4	ACRES	\$ 250.00		\$ 1,850.00
GRADING - ROADWAYS ONLY	3,500	C.Y.	\$ 2.50		\$ 8,750.00
DEMOLITION		LUMP SUM	\$ ..		\$ ..
CURB INLET D#4 SERIES	2	EACH	\$ 2,500.00		\$ 5,000.00
CURB INLET D#7 SERIES W/ GRADE A TYPE III	6	EACH	\$ 1,200.00		\$ 7,200.00
CURB INLET D#3 SERIES	7	EACH	\$ 2,000.00		\$ 14,000.00
MANHOLE MH-2 SERIES	1	EACH	\$ 1,500.00		\$ 1,500.00
MANHOLE MH-	..	EACH	\$ ..		\$ ..
15-IN CONCRETE PIPE, CLASS III	489	LN. FT.	\$ 30.00		\$ 14,670.00
24-IN CONCRETE PIPE, CLASS III	432	LN. FT.	\$ 48.00		\$ 20,736.00
30-IN CONCRETE PIPE, CLASS III	296	LN. FT.	\$ 60.00		\$ 17,760.00
42-IN CONCRETE PIPE, CLASS III	110	LN. FT.	\$ 84.00		\$ 9,240.00
-IN C.M. CULVERT	..	LN. FT.	\$ ..		\$ ..
-IN C.M. CULVERT	..	LN. FT.	\$ ..		\$ ..
BOX CULVERT	..	LUMP SUM	\$ ..		\$ ..
PAVED DITCH	..	LN. FT.	\$ ..		\$ ..
RIPRAP - CLASS I	..	C.Y.	\$ ..		\$ ..
RIPRAP - CLASS II	..	C.Y.	\$ ..		\$ ..
RECONSTRUCTION OF WATERCOURSE	110	LN. FT.	\$ 50.00		\$ 5,500.00
PRECAST ENERGY DISSIPATOR W/ RIPRAP	1	EACH	\$ 5,000.00		\$ 5,000.00
15-IN END SECTION ES-1	..	EACH	\$ ..		\$ ..
HEADER CURB & GUTTER CG	..	LN. FT.	\$ ..		\$ ..
CURB & GUTTER CG-6	1,858	LN. FT.	\$ 15.00		\$ 27,870.00
VDOT STD CG-60 ENTRANCES	..	EACH	\$ ..		\$ ..
STD PAVEMENT SECTION	2,125	S.Y.	\$ 12.00		\$ 25,500.00
HEAVY GRADE PAVEMENT SECTION	955	S.Y.	\$ 15.00		\$ 14,325.00
GRAVEL SHOULDER	..	S.Y.	\$ ..		\$ ..
SURFACE TREATMENT	..	S.Y.	\$ ..		\$ ..
-IN BIT CONC. TYPE B-	..	S.Y.	\$ ..		\$ ..
-IN BIT CONC. TYPE S-	..	C.Y.	\$ ..		\$ ..
-IN BASE MATERIAL	..	C.Y.	\$ ..		\$ ..
-IN SUBBASE MATERIAL	..	C.Y.	\$ ..		\$ ..
6-IN WATERLINE	48	LN. FT.	\$ 18.00		\$ 864.00
8-IN WET TAP	2	EACH	\$ 1,000.00		\$ 2,000.00
8-IN WATERLINE	1,256	LN. FT.	\$ 20.00		\$ 25,120.00
AIR RELEASE VALVE	1	EACH	\$ 2,000.00		\$ 2,000.00
PRE-IRRIANT ASSEMBLY	2	EACH	\$ 500.00		\$ 1,000.00
BLOW OFF ASSEMBLY	2	EACH	\$ 1,000.00		\$ 2,000.00
6-IN GATE VALVE, W/ WALT, FRAME & COVER	2	EACH	\$ 9,000.00		\$ 18,000.00
8-IN GATE VALVE, W/ WALT, FRAME & COVER	6	EACH	\$ 300.00		\$ 1,800.00
SINGLE WATER METER SETTERS W/ PRV	3	EACH	\$ 900.00		\$ 2,700.00
DOUBLE WATER METER SETTERS W/ PRV	11	EACH	\$ 4,400.00		\$ 48,400.00
MAJOR FITTINGS	5	EACH	\$ 400.00		\$ 2,000.00
8-IN SANITARY SEWERLINE	985	LN. FT.	\$ 22.00		\$ 21,670.00
4-IN RESIDENTIAL LATERALS	25	EACH	\$ 300.00		\$ 7,500.00
6-IN RESIDENTIAL DOUBLE LATERALS	..	EACH	\$ ..		\$ ..
STANDARD MANHOLE W/ FRAME & COVER	8	EACH	\$ 1,500.00		\$ 12,000.00
S.S. RESIDENTIAL PUMP & FORCEMAIN	..	EACH	\$ ..		\$ ..
LANDSCAPING	..	LUMP SUM	\$ ..		\$ ..
AGREEMENTS (INCLUDING BUT NOT LIMITED TO TRAILS, ETC.)	..	LUMP SUM	\$ ..		\$ ..
STORMWATER MANAGEMENT	1	LUMP SUM	\$ 15,000.00		\$ 15,000.00
SWIMMING	..	LN. FT.	\$ ..		\$ ..
DOUBLE GATE	..	EACH	\$ ..		\$ ..
ASBUILT PLANS (STORM SEWER SYSTEMS)	1	LUMP SUM	\$ 2,500.00		\$ 2,500.00
ASBUILT PLANS (STORMWATER MANAGEMENT)	1	LUMP SUM	\$ 2,500.00		\$ 2,500.00
SUB-TOTAL					\$ 282,355.00
TAX CONTINGENCY					\$ 29,235.00
ESTIMATED TOTAL					\$ 321,590.00

I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.

DATE:

SIGNED:

BALZER AND ASSOCIATES, INC.  
www.balzer.cc  
PLANNERS • ARCHITECTS  
ENGINEERS • SURVEYORS



1208 Corporate Circle  
Roanoke, Virginia 24018  
Phone: 540/772-9580  
Fax: 540/772-8050

1687 2nd View Drive  
Madison, Virginia 23113  
Phone: 804/794-0571  
Fax: 804/794-2835

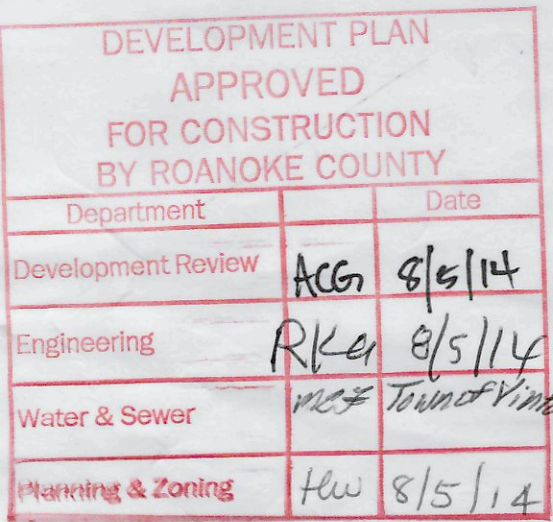
880 Technology Park Drive  
Glen Allen, Virginia 23059  
Phone: 804/653-0132  
Fax: 804/653-0135

448 Peppers Ferry Road  
Christiansburg, Virginia 24073  
Phone: 540/281-4250  
Fax: 540/281-4531

1561 Commonwealth Road  
Suite 401  
Roanoke, Virginia 24062  
Phone: 540/248-3220  
Fax: 540/248-3221

DRAWN BY: J.V.J.  
DESIGNED BY: J.V.J.  
CHECKED BY: S.M.H.  
DATE: 05-09-2006  
REVISIONS:  
10-09-2006 R.C. VODI, & Vinton Cmnis  
11-19-2006 R.C. VODI, & Vinton Cmnis  
02-21-2007 R.C. & Vinton Comments  
11-23-2007 Sanitary Sys. Changes  
05-29-2008 Storm Sewer Sys. Changes  
12-23-2008 R.C. Comments  
01/23/2014

FIELD REVISION - 07/24/2014



## MOUNTAIN VIEW SECTION 1

### Mountain View Road County of Roanoke, Virginia

SHEET NO.:

REGISTERED LAND DISTURBER

JOB NO.: R0600065.00

C-1