# **GENERAL NOTES**

#### PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

- 1. 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.
- 2. 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.
- 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 needs to be scheduled. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
- 4. 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 Environmental Quality. The Responsible Land Disturber can be anyone from the Project team that is certified by the Commonwealth 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, Storm Water Pollution Prevention Plan (SWPPP), VSMP coverage letter, 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
- 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 or Combined Erosion Control & VSMP Permit is given to the developer at this pre-construction meeting.
- 11. Notify the County of Roanoke prior to beginning installation of ESC measures. The County will inspect initial installations to ensure compliance with approved plan prior to start of grading. The developer SHALL contact the project inspector 24 hours before beginning any grading or construction on the property.
- 12. County inspectors must inspect storm drain / stormwater management / BMP installations during the process of installation. Please contact the site inspector 24
- 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 or VA 811.
- 15. 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 times 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 Litter Control Act. No less than one litter 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
- 20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control or stormwater management 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
- 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 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.
- 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 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.
- 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 on Uniform Traffic Control Devices" (MUTCD).
- 30. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet <u>C14</u> for Stormwater Site Statistics Table. See Sheet C14 for New BMP Information Table.

The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction

The notes on this sheet shall not be modified.



# COUNTY OF ROANOKE, VA

**CLEARING AND GRUBBING** 

FOX HUNT SUBDIVISION AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE (FORMERLY IVY RIDGE SUBDIVISION) 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. WINDSOR HILLS MAGISTERIAL DISTRICT(S) ROSELAWN INVESTMENTS. LLC P.O. BOX 20886 OWNER (name, address, telephone) ROANOKE, VIRGINIA 24018 ROSELAWN INVESTMENTS, LLC DEVELOPER (name, address, telephone) P.O. BOX 20886 ROANOKE, VIRGINIA 24018 BALZER AND ASSOCIATES, INC. ATTN: CHRIS BURNS ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) 1208 CORPORATE CIRCLE FAX 540-772-8050 540-772-9580 ROANOKE, VA 24018 TAX MAP NO(S) 086.01-01-07.00-0000

#### WATER NOTES

All water facilities shall be constructed according to the Western Virginia Regional 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 12VAC5-590-1150, where lines cross.

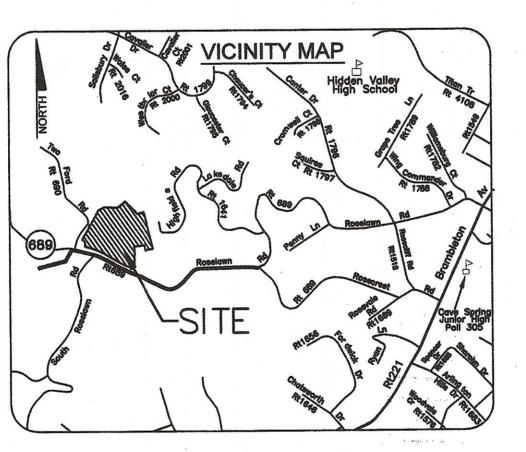
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation

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 Regional 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: \_\_\_\_\_



### LECEND

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#### SEWER NOTES

All sanitary sewer facilities shall be installed according to the Western Virginia Regional 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 12VAC5-590-1150, where

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.

C18A TRAFFIC CONTROL PLAN 2		C1 C2 C3 C4 C5 C5A C6 C7 C8 C9 C10 C12 C13 C14 C15 C16 C17 C18 C18A	COVER SHEET EXISTING CONDITIONS LAYOUT & UTILITY PLAN GRADING PLAN OFF-SITE WATERLINE EXTENSION OFF-SITE WATERLINE EXTENSION ROAD AND S.S. PROFILES STORM SEWER PROFILES WATERLINE PROFILES PHASE 1 ESC PLAN PHASE 2 ESC PLAN ESC NOTES ESC DETAILS SITE DETAILS 1 SITE DETAILS 2 GENERAL NOTES WVWA WATER DETAILS WVWA SANITARY SEWER DETAILS TRAFFIC CONTROL PLAN 1 TRAFFIC CONTROL PLAN 2	
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#### Sheet Index

## SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2015 BALZER AND ASSOCIATES, INC. 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. Horizontal Datum: INST. #200420708 Vertical Datum: NAVD88

BALZER AND ASSOCIATES FIELD SURVEY, DATED 2015

Source of topographic mapping is dated ROANOKE COUNTY AERIAL MAPPING (AREAS OUTSIDE OF GRADING LIMITS) Boundary was performed by BALZER & ASSOCIATES, INC. dated: 2015

Benchmark Information: TOP OF IRON PI

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

#### QUANTITY & COST ESTIMATE BONDABLE COST **UNIT PRICE**

\*NOTE: THIS COST ESTIMATE TABLE IS PROVIDED FOR BONDING PURPOSES ONLY. VERIFICATION OF

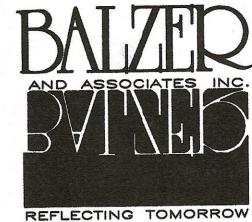
ACRES

1,000.00

ALL QUANTITIES AND PRICES FOR BIDDING PURPOSES SHALL BE THE RESPONSIBILITY OF THE BIDDER.\*

ARTHWORK	40,000	C.Y.	3.00		120,000.00
		FACIL	4 000 00		3,000.00
YLOPLAST DROP INLET	3	EACH EACH	1,000.00		1,200.00
ROP INLET DI-1	1		1,200.00		2,400.00
ROP INLET DI-7	2	EACH EACH	1,500.00		6,000.00
DOT ST'D DI-3B	2	EACH	1,500.00		3,000.00
DOT STD DI-3C	5	EACH	1,000.00		5,000.00
DOT 51 D MIN-2	2	EACH	300.00		600.00
DOT STD EW 4	1 1	EACH	500.00		500.00
DOT ST'D EW-1 5" TYPE S HDPE PIPE	920	LIN. FT.	25.00		23,000.00
8" TYPE S HDPE PIPE	310	LIN. FT.	30.00		9,300.00
4" TYPE S HDPE PIPE	300	LIN. FT.	40.00		12,000.00
0" CLASS III RCP	65	LIN. FT.	60,00		3,900.00
U CLASS III NCF	- 03				
PROPOSED DITCH	1,150	LIN. FT.	5.00		5,750.00
ROPOGED BITCH	1,100				
BOX CULVERT		LUMP SUM			
SOA GOLVENT					
PAVED DITCH		LIN. FT.			
7712011011					
RIPRAP - CLASS		S.F.			
			<b> </b>		
SODDED SWALE		S.Y.	<u> </u>		
		1			3
-IN. CONCRETE ENDWALL EW-		EACH			
ASPHALT PAVEMENT	3400	S.Y.	10.00		34,000.00
PAVEMENT SUB-BASE	3400	S.Y.	10.00		34,000.00
CURB & GUTTER CG-6	. 1800	LIN. FT.	16.00		28,800.00
OOND & COTTEN COC					
GRAVEL SHOULDER		S.Y.			
SURFACE TREATMENT		S.Y.			
-IN, BIT, CONC.: TYPE B-		S.Y.			
-IN, BIT, CONC.: TYPE S-		S.Y.			
-IN. BASE MATERIAL		C.Y.			
-IN. SUBBASE MATERIAL		C.Y.			
-11. 0000/101 11/11/11/12					
6" PVC WATERLINE	270	LIN. FT.	20.00		5,400.00
8" PVC WATERLINE	710	LIN. FT.	40.00		28,400.00
SINGLE RESIDENTIAL WATER SERVICE	3	EACH	1,500.00		4,500.00
DOUBLE RESIDENTIAL WATER SERVICE	11	EACH	2,000.00		22,000.00
FIRE HYDRANT ASSEMBLIES	1	EACH	3,500.00		3,500.00
BLOW OFFS W/VAULT, FRAME & COVER	2	EACH	1,400.00		2,800.00
AIR RELEASE VALVE	2	EACH	1,200.00		2,400.00
8 -IN. GATE VALVE, W/VAULT, FRAME & COVER	5	EACH	1,200.00		6,000.00
O-MA. GATE VALVE, VW VACET, FINNIE & COVER			,,	1	1
SANITARY SEWER MANHOLE	7	EACH	3,000.00	1	21,000.00
8" PVC SANITARY SEWER MAIN	964	LIN. FT.	50.00	1	48,200.00
SINGLE SANITARY SEWER LATERAL	7	EACH	1,500.00		10,500.00
DOUBLE SANITARY SEWER LATERAL	9	EACH	2,000.00		18,000.00
DOUBLE SANITARY SEVVER LATERAL	3	1	-,	1	1
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					1
SWM DETENTION POND	1	LUMP SUM	10,000.00		10,000.00
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				1	
	+		1		
AS-BUILT PLANS - STORM SEWER & SWM	1	LUMP SUM	2,000.00		2,000.00
VO-POILT LEVIAS - STOKIAL SEAAEL & SAAIA	<u> </u>				
SUB-TOTAL				<del>                                     </del>	\$485,850.00
					\$48,585.00
10% CONTINGENCY			-	1	
10% CONTINGENCY		1			IMP
ESTIMATED TOTAL					\$534,435.0

BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.



www.balzer.cc PLANNERS • ARCHITECTS ENGINEERS • SURVEYORS

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

15871 City View Drive Midlothian, Virginia 23113 Phone: 804/794-0571 FAX: 804/794-2635

8,700.00

120,000.00

448 Peppers Ferry Road Christiansburg, Virginia 24073 Phone: 540/381-4290 FAX: 540/381-4291

1561 Commerce Road Suite 401 Verona, Virginia 24482 Phone: 540/248-3220 FAX: 540/248-3221

DRAWN BY:

DESIGNED BY:

CHECKED BY:

**REVISIONS:** 

CHRISTOPHER P. BURNS Lic. No.047338 7/6/17

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BTC

10/1/2015

1/7/2016 3/7/2016

4/26/2016

5/17/2017

7/6/2017

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