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.
- 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. 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.
- 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.
- The Erosion Control Permit is given to the developer at this 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 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 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.
- 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 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.
- 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: "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.



County of Roanoke, Va

NAME OF DEVELOPMENT	ADDITIONS & ALI BONSACK BAPT	TERATIONS FOR IST CHURCH			I, OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE ROANOKE COUNTY CODES.
MAGISTERIAL DISTRICT(S)	HOLLINS				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.
OWNER (name, address, telephone)	BONSACK BAPTIST 4845 CLOVERDALE ROANOKE, VIRGINIA	ROAD	(540) 977-57 (540) 977-09		
DEVELOPER (name, address, telephone)	BONSACK BAPTIST 4845 CLOVERDALE ROANOKE, VIRGINIA	ROAD	(540) 977-57 (540) 977-09		
ENGINEER, ARCHITECT OR SURVEYOR (n	name, address, telephone)	HUGHES ASSOCIATES ARCHITE 656 ELM AVENUE, S.W. P.O. BOX 1034 ROANOKE, VIRGINIA 24005	(5	40) 3	CT: MIKE WOOLNINE 342-4002 TEL. 342-2060 FAX
TAX MAP NO(S) 040.01-01-06.00	p-0000				<u> </u>

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

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.

vaults after paving and adjustment to final grade if necessary.

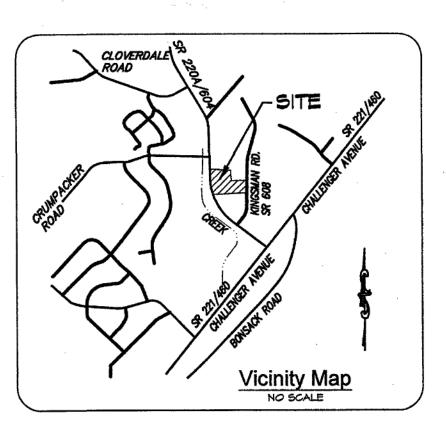
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation standards.

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

Western Virginia Water Authority



LEGEND

·	
roperty Line	<u>P</u>
tight-of-way	R/W
enterline	CL
linimum Building Line	
xisting Storm Sewer	18"SD18"SD
xisting Sanitary Sewer	8"SS 8"SS
xisting Water Main	4"W4"W
xisting Contour	
Proposed Contour	1045
Proposed Drainage Divide	
Proposed Limits of Clearing	
Proposed Storm Sewer	24" S.D.
Proposed Sanitary Sewer	8" M.H.
Proposed Water Main	HYDRANT VALVE BLOWOFF

SEWER NOTES All sanitary sewer facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards.

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

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.

RETAINING WALLS

A separate review and building permit application are required for all retaining wall(s). A copy of the approved site plan must be submitted with the building permit application for the retaining wall(s) plan.

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 be substituted for the code required devices.

SP-1	ROANOKE	COUNTY	COVER	SHEET

SP-2 GENERAL SITE CONSTRUCTION NOTES & EROSION CONTROL MINIMUM STANDARDS NOTES

SP-3 EXISTING SITE TOPO & SITE DEMOLITION PLAN

DIMENSIONAL LAYOUT PLAN

SP-5 GRADING & DRAINAGE PLAN

EROSION CONTROL PLAN

SP-7 UTILITY PLAN

(Latest Edition).

Landscape Plan

SP-9 PHASE II - DIMENSIONAL LAYOUT PLAN

SP-10 PHASE II - GRADING & DRAINAGE PLAN

SP-11 PHASE II - EROSION CONTROL PLAN

SP-12 PHASE II - LANDSCAPE PLAN

SP-13 STORM PROFILES SP-14 WATER, SANITARY & ELECTRIC PROFILES

SP-15 SITE DETAILS

SP-16 EROSION CONTROL DETAILS & EROSION CONTROL NARRATIVE & BOND ESTIMATE

SP-17 FILTERRA DETAILS

SP-18 WESTERN VIRGINIA WATER AUTHORITY DETAILS

SP-19 WALL DETAILS

SP-20 WALL PROFILES

Source of topographic mapping is dated September 2013

E4-1 SITE LIGHTS PHOTOMETRICS

Index

STORMWATER MANAGEMENT (from E&S Detail Shee

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

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2013 By: Pierson Engineering and Surveying

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.

Boundary was performed by Pierson Engineering & Surveying dated: 2013

Benchmark Information: Set by Pierson Engineering & Surveying 2013

See Plans - Top, Corner of Sidewalk 1026.94

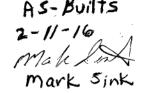
The professional seal and signature certifies the boundary survey and topographic mapping to

ITEM	PHIQUANTITY	PH-II QUANTITY	UNIT		THE BONDABLE	TITALOGRAPHE
CLEARING AND GRUBBING	1		ACRES	\$2000	\$ 2000	
EXCAVATION	8740	1900	C.Y.	\$8.50	\$74290	\$16150
DROP INLET DI-1		1	EACH	\$1400		\$1400
DROP INLET ON 36" DIA. BASE	3		EACH	\$1200	\$3600	
22"x22" SQUARE DROP INLE	3		EACH	\$1000	\$3000	
36" DIA. MANHOLE	2		EACH	\$1100	\$2200	
	4		EACH	\$1800	\$7200	
48" DIA. MANHOLE	13	2	EACH	\$100	\$1300	\$200
4" CLEANOUT						4200
6" PVC STORM	313		LIN. FT.	\$14	\$4382	2440
8" PVC STORM	143	90	LIN. FT.	\$16	\$2288	\$1440
10" PVC STORM	325		LIN. FT.	\$18	\$5850	
12" HDPE STORM	308		LIN. FT.	\$25	\$7700	

-IN. CONCRETE PIPE, CLASS III			LIN. FT.			
-IN. CONCRETE PIPE, CLASS IV			LIN. FT.			
15-IN. N-12 HDPE PIPE			LIN. FT.			
-IN. N-12 HDPE PIPE			LIN, FT.			1-11-11-11-11-11-11-11-11-11-11-11-11-1
15 -IN. C.M. CULVERT		60	LIN. FT.	\$30		\$1800
			LIN. FT.	400	-	V 1000
-IN. C.M. CULVERT			LIN. FI.			
BOX CULVERT	<u> </u>		LUMP SUM			
PAVED DITCH			LIN. FT.			
		,				
RIPRAP - CLASS			S.F.			
				,		
SODDED SWALE		<u> </u>	S.Y.			
OODDED OWNER		ļ				
IN CONCETT SHOWALL DA			EACH			
-IN. CONCRETE ENDWALL EW-			EACH			
-IN. END SECTION ES-			EACH		<u></u>	
RETAINING WALL	624	1446	SF/FACE	\$20	\$12,480	\$28,920
6' VINYL PRIVACY FENCE	128	50	LIN. FT.	\$15	\$1920	\$750
CURB CG-2	523	184	LIN. FT.	\$12	\$6276	\$2,208
A CONTRACTOR OF THE CONTRACTOR			EACH			
			S.Y.			
		<u> </u>				
ODALET CHOILEDED	l		S.Y.			
GRAVEL SHOULDER			 			
SURFACE TREATMENT			S.Y.			
-IN. BIT. CONC.: TYPE B-			S.Y.			
2-IN, BIT. CONC.: TYPE SM-9.5	2205	527	S.Y.	\$18		1
6-IN. BASE MATERIAL: VDOT 21A OR 21B AGGRE.				***		
2" PE WATER LINE	198		LIN. FT.	\$14	\$2772	
3" PE WATER LINE	95		LIN. FT.	\$16	\$1520	i
4" DR14 WATER LINE	100					
6" DR14 WATER LINE	1	1	LIN. FT.	\$20	\$2000	
	95		LIN. FT.	\$20 \$22	\$2000 \$2090	
8" DI WATER LINE	-					
8" DI WATER LINE	95 202		LIN. FT.	\$22 \$40	\$2090	
FIRE HYDRANT ASSEMBLIES	95 202 1		LIN. FT. LIN. FT. EACH	\$22 \$40 \$3500	\$2090 \$8080 \$3500	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER	95 202 1 1		LIN. FT. LIN. FT. EACH EACH	\$22 \$40 \$3500 \$1200	\$2090 \$8080 \$3500 \$1200	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER	95 202 1 1		LIN. FT. LIN. FT. EACH EACH EACH	\$22 \$40 \$3500 \$1200 \$1000	\$2090 \$8080 \$3500 \$1200 \$1000	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER	95 202 1 1		LIN. FT. LIN. FT. EACH EACH	\$22 \$40 \$3500 \$1200	\$2090 \$8080 \$3500 \$1200	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER WATER VAULT	95 202 1 1		LIN. FT. LIN. FT. EACH EACH EACH EACH	\$22 \$40 \$3500 \$1200 \$1000 \$8000	\$2090 \$8080 \$3500 \$1200 \$1000 \$8000	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER WATER VAULT 4" PVC SANITARY SEWER	95 202 1 1		LIN. FT. LIN. FT. EACH EACH EACH EACH LIN. FT.	\$22 \$40 \$3500 \$1200 \$1000 \$8000	\$2090 \$8080 \$3500 \$1200 \$1000 \$8000	
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FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER WATER VAULT 4" PVC SANITARY SEWER	95 202 1 1 1 1 1		LIN. FT. LIN. FT. EACH EACH EACH EACH LIN. FT.	\$22 \$40 \$3500 \$1200 \$1000 \$8000	\$2090 \$8080 \$3500 \$1200 \$1000 \$8000	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER WATER VAULT 4" PVC SANITARY SEWER 6" PVC SANITARY SEWER	95 202 1 1 1 1 236 369		LIN. FT. LIN. FT. EACH EACH EACH LIN. FT. LIN. FT.	\$22 \$40 \$3500 \$1200 \$1000 \$8000 \$12 \$14	\$2090 \$8080 \$3500 \$1200 \$1000 \$8000 \$2832 \$5166	
FIRE HYDRANT ASSEMBLIES BLOW OFFS W/VAULT, FRAME & COVER 8 -IN. GATE VALVES, W/VAULT, FRAME & COVER WATER VAULT 4" PVC SANITARY SEWER 6" PVC SANITARY SEWER 4" CLEANOUT	95 202 1 1 1 1 1 236 369 10		LIN. FT. EACH EACH EACH EACH LIN. FT. LIN. FT. EACH	\$22 \$40 \$3500 \$1200 \$1000 \$8000 \$12 \$14 \$100	\$2090 \$8080 \$3500 \$1200 \$1000 \$8000 \$2832 \$5166 \$1000	
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QUANTITY & COST ESTIMATE

PHIQUANTITY PH-II QUANTITY UNIT UNIT PRICE PH-I BONDABLE PH-II BONDABLE



June 16, 2014

HUGHES **ASSOCIATES ARCHITECTS VENGINEERS** Architecture = Engineering = Consulting

656 ELM AVENUE, S.W. P.O. BOX 1034 ROANOKE, VIRGINIA 24005-1034

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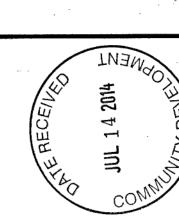






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