OLIANITTY I COOT FORMATE

TTG M	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
ITEM	@OMINITITE	OME	ONLI PRILE	COST	חמאמאורר
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6' SDR35PVC SANITARY SEWER	185	LF	\$20.00	\$3,700.00	\$3,700.00
2' DR21PVC WATERLINE	80	LF	\$18.00	\$1,440.00	\$1,440.00
6' DR14PVC WATERLINE	155	LF	\$20.00	\$3,100.00	\$3,100.00
BORE AND ENCASE 6' WATERLINE	80	LF	\$150.00	\$12,000.00	\$12,000.00
					
FIRE HYDRANY ASSEMBLY	1	EA	\$1,500.00	\$1,500.00	\$1,500.00
AD HIST DOOD THEST TOD SECVENTION	<u> </u>	EAGL	#1 000 00	#1 000 00	#1.000.00
ADJUST DROP INLET TOP ELEVATION	1	EACH	\$1,000.00	\$1,000.00	\$1,000.00
DROP INLET, VDOT ST'D DI-1	3	EACH	\$1,200.00	\$3,600.00	\$3,600.00
DROP INLET, VDOT ST'D DI-3C, L=8'	1	EACH	\$1,800.00	\$1,800.00	\$1,800.00
15" RCP	62	LF	\$18.00	\$1,116.00	\$1,116.00
15" HDPE	142	LF	\$18.00	\$2,556.00	\$2,556.00
18' HDPE	309	LF	\$22.00	\$6,798.00	\$6,798.00
				<u> </u>	
CONC. CURB, CG-2	140		440.00	45 700 00	45 700 00
	440	LF CLASS	\$13.00	\$5,720.00	\$5,720.00
RETAINING WALL	1,025	SF/FACE	\$18.00	\$18,450.00	\$18,450.00
· · · · · · · · · · · · · · · · · · ·					
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S,Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430,00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430.00
	3,110	S.Y.	\$13.00	\$40,430.00	\$40,430,00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214					
2-IN. BIT. CONC. SURFACE COURSE, TYPE SM-9.5 AL 6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21/	21	EACH	\$160.00	\$3,360.00	\$3,360.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE	21	EACH EACH	\$160.00 \$135.00	\$3,360.00 \$1,350.00	\$3,360.00 \$1,350.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE	21 10 2	EACH EACH EACH	\$160.00 \$135.00 \$105.00	\$3,360.00 \$1,350.00 \$210.00	\$3,360.00 \$1,350.00 \$210.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE	21	EACH EACH	\$160.00 \$135.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE	21 10 2	EACH EACH EACH	\$160.00 \$135.00 \$105.00	\$3,360.00 \$1,350.00 \$210.00	\$3,360.00 \$1,350.00 \$210.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00
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G-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21A RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE RED SPRITE WINTERBERRY	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$1,350.00 \$210.00 \$1,715.00
G-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21A RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE RED SPRITE WINTERBERRY	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00
6-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 214 RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00 \$1,600.00
G-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21/ RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE RED SPRITE WINTERBERRY SUB-TOTAL 10% CONTINGENCY	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00 \$1,600.00 \$1,1445.00 \$11,144.50
G-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21A RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE RED SPRITE WINTERBERRY SUB-TOTAL	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00 \$1,600.00 \$1,1445.00 \$11,144.50
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G-IN. AGGREGATE SUBBASE MATERIAL TYPE 1, SIZE 21/ RED MAPLE TREE GREEN ASH TREE EASTERN REDBUD TREE HENRYS GARNET SWEETSPIRE RED SPRITE WINTERBERRY SUB-TOTAL 10% CONTINGENCY	21 10 2 49	EACH EACH EACH	\$160.00 \$135.00 \$105.00 \$35.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00	\$3,360.00 \$1,350.00 \$210.00 \$1,715.00 \$1,600.00
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DATE

SIGNED

GENERAL NOTES

All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County and/or the Virginia Department of Transportation.

The contractor or developer is required to notify the Roanoke County Engineering Division in writing at least three (3) days prior to any construction, including, but not limited to the following

- A. Installation of approved erosion control devices
- B. Clearing and grubbing
- C. Subgrade excavation D. Installing storm sewers or culverts
- E. Setting curb and gutter forms
- F. Placing curb and gutter G. Placing other concrete
- H. Placing gravel base
- I. Placing any roadway surface J. Installing water lines K. Installing sanitary sewer lines

A pre-construction conference should be scheduled with the Roanoke County Engineering Division, to be held at least one (1) day prior to any construction.

Measures to control erosion and siltation must be provided prior to plan approval. Plan approval in no way relieves the developer or contractor of the responsibilities contained within the erosion and siltation control policies.

A permit must be obtained from the V.D.O.T. Residency Office, Roanoke County, prior to construction in the highway right-of-way.

Plan approval does not guarantee Issuance of any permits by V.D.O.T.

An approved set of plans and all permits must be available at the construction site.

Field construction shall honor proposed drainage divides as shown on plans.

All unsultable material shall be removed from the construction limits of the roadway before placing embankment.

Pavement sections on approved plans are based on a minimum CBR of 10. CBR tests are to be performed by the engineer and submitted to V.D.O.T. and to the Roanoke County Engineering Division prior to placement. CBR values < 10 will require revised pavement sections.

All roadside ditches or grades of more than 5 percent shall be paved with cement concrete to the limits as indicated on the plans and as regulred at the field inspection.

Location of guard rails shall be determined at a joint field inspection by the County and V.D.O.T.

All springs shall be capped and piped to the nearest storm sewer or natural watercourse. The pipe shall be 6 inch minimum diameter and conform to V.D.D.T. Standard SB-1.

Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.

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.

Construction debris shall be containerized in accordance with the

It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition 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. 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. The developer or contractor shall supply the county with correct As-Built plans before final acceptance.

All work shall be subject to inspection by Roanoke County and/or V.D.O.T. Inspectors.

Field corrections shall be approved by the Roanoke County Engineering Division prior to such construction.

100 year floodway and floodplain information shall be shown where

Grade stakes shall be set for all curb and gutter, culvert, sanitary

SEWER NOTES

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

House connections are to be made with 4° pipe installed at a minimum grade of 1/4 Inch to 1 foot In R/W.

Laterals from manholes shall be PVC or Ductile Iron of sufficient length to provide two (2) feet of bearing on natural ground. The transition from ductile iron to asbestos cement or concrete pipe shall be made with an adapter coupling in R/W.

All trenches in existing or future rights-of-way shall be compacted according to V.D.D.T. standards.

Lines shall be staked prior to construction.

VICINITY MAP NO SCALE DIAGRAMMATIC INTERSTATE 81 ROANOKE REGIONAL

WATER NOTES

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 or may not be shown in the 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 V.D.D.T. standards.

Lines shall be staked prior to construction.

Water main shall be minimum Class 52 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Availability number 00-47

LEGEND

Property Line		—— 6 ——	
Right-of-way	 · · · -	R/W	
Centerline		£	
Minimum Building Line		M.B.L.	
Existing Storm Sewer	18' S.D.	=====================================	18, 2'D'
Existing Sanltary Sewer	8' SAN.		EB. SAN.
Existing Water Main			-4" V
Existing Contour		—1045 — —	
Proposed Contour		1045	
Proposed Drainage Divide	· ———		
Proposed Limits of Clear	^l ng		
Proposed Storm Sewer		24° S.D.	
Proposed Sanitary Sewer	~ 	8" M.H.	
Proposed Water Main	HYDRANT VAL	VE	BLOVOFF

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in 1991 by SHANKS ASSUCIATES, P.C.

All elevations must be referenced to the National Geodetic Vertical Datum of 1929.

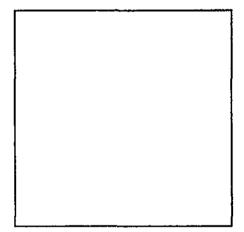
Source of topographic mapping is SURVEY FOR MELROSE BAPTIST CHURCH dated APRIL 30, 1991

Boundary was performed by SHANKS ASSUCIATES, P.C.

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



ARCHITECT SEAL AND SIGNATURE



CERTIFIED LAND SURVEYOR SEAL AND SIGNATURE

OWNER/DEVELOPER, AM AWARE

OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APP-

LICABLE COUNTY CODES, I HEREBY CERTIFY THAT

AGREE TO COMPLY WITH THESE REQUIREMENTS, UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

COUNTY OF ROANOKE

INDEX

SHEET SP- ROANOKE COUNTY COVER & NOTES

SHEET SP-2 SITE DEMOLITION PLAN

SHEET SP-3 SITE LAYOUT & UTILITY PLAN

sheet SP-4 Grading, drainage & Erosion Control Plan

SHEET SP-5 EROSION CONTROL NARRATIVE, SITE DETAILS

4 STORM SEWER PROFILES

SHEET SP-6 LANDSCAPE PLAN

SHEET SP-7 ROANOKE COUNTY EROSION & SEDIMENT CONTROL DETAILS

SHEET SP-7A RETAINING WALL PLAN

NAME OF DEVELOPMENT

MAGISTERIAL DISTRICT(S)

ADDITIONS AND RENOVATIONS MELROSE BAPTIST CHURCH

CATAMBA

MELROSE BAPTIST CHURCH CONTACT: MR. JERRY FARRAR **BWNER** (name, address, telephone) 3520 PETERS CREEK ROAD ROANOKE, VIRGINIA 24019 TEL. 540-366-6631

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)

MELROSE BAPTIST CHURCH 3520 PETERS CREEK ROAD

DEVELOPER (name, address, telephone) ROANOKE, VIRGINIA 24019 TEL. 540-366-6631

HUGHES ASSOCIATES ARCHITECTS

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

CONTACT: MIKE WOOLNINE (540) 942-4002 TEL. (540) 342-2060 FAX

37.10-01-22.00 BLOCK NO(S) PARCEL NO(S) TAX MAP ND(S)

SHEET______DF____

DATE: May 25, 2004

HUGHES ARCHITECTS

Architecture . Planning . Consulting

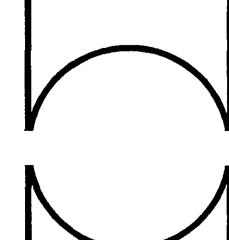
656 ELM AVENUE, S.W. P O BOX 1034

ROANOKE, VIRGINIA 24005-1034

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www.HughesArchitects.com

ROANOKE COUNTY COVER AND



COMMISSION No. 04022

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HUCHES ASSOCIATES ARCHITECTS
A PROFESSIONAL CORPORATION