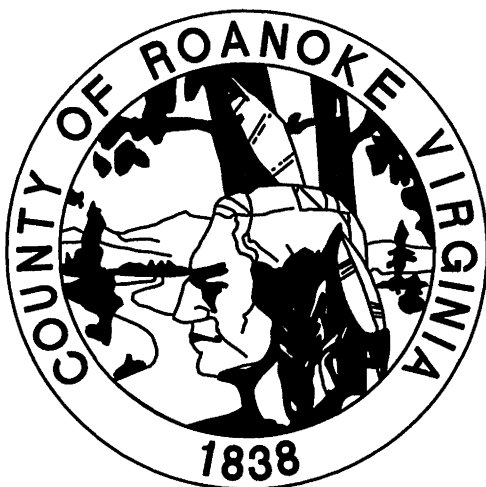


**PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:**

- VIRGINIA DEPARTMENT OF TRANSPORTATION:

- 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.



NAME OF DEVELOPMENT <b>WAFFLE HOUSE-627 RELOCATION</b>		I, _____ 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) <b>CATAWBA</b>			
OWNER (name, address, telephone) <b>KRISHNA ENTERPRISES, LLC 6520 THIRLANE ROAD ROANOKE, VA 24019</b>			
DEVELOPER (name, address, telephone) <b>WAFFLE HOUSE, INC. — REAL ESTATE DEPARTMENT (MR. RUSSELL HOLLAND) 5986 FINANCIAL DRIVE NORCROSS, GA 30071</b>			
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) <b>BALZER AND ASSOCIATES, INC. 1208 CORPORATE CIRCLE ROANOKE, VA 24018</b>		<b>540-772-9580</b>	<b>FAX 540-772-8050</b>
TAX MAP NO(S) <u><b>037.10-01-10.00-0000</b></u>			

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.

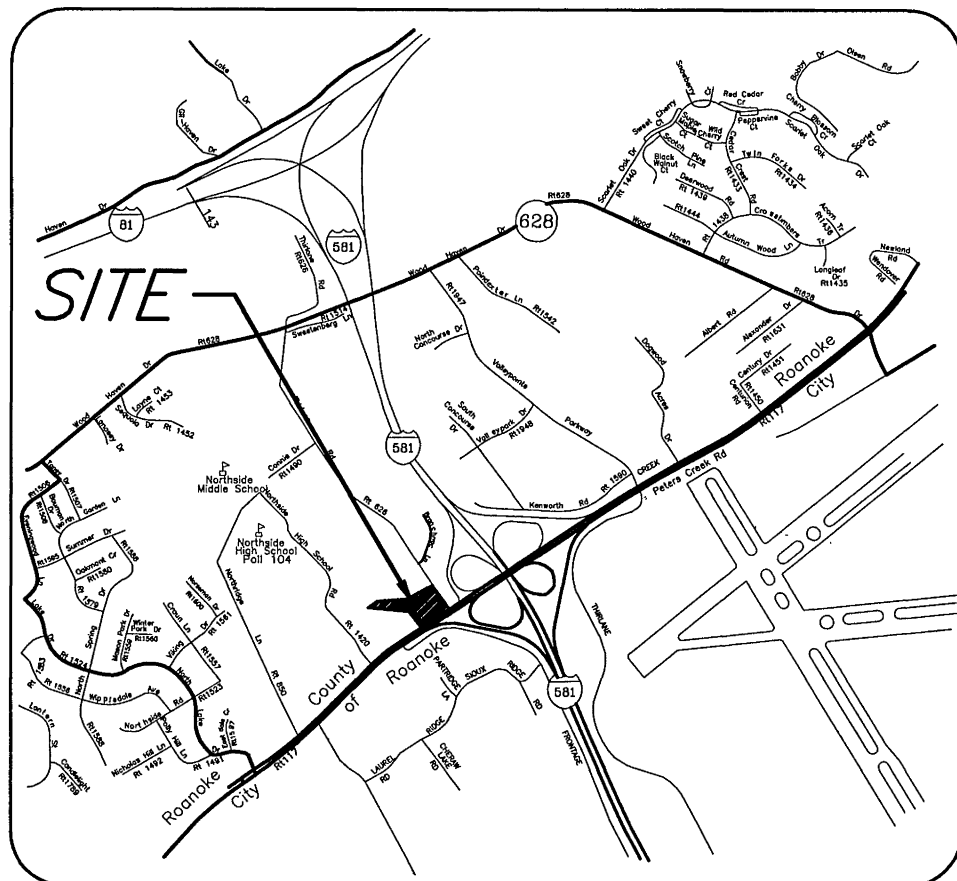
All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12VAC5-590-1150, where lines cross.

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

Lines shall be staked prior to construction.

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: 13-341



Property Line		
Right-of-way		
Centerline		
Minimum Building Line		
Existing Storm Sewer		
Existing Sanitary Sewer		
Existing Water Main		
Existing Contour		
Proposed Contour		
Proposed Drainage Divide		
Proposed Limits of Clearing		
Proposed Storm Sewer		
Proposed Sanitary Sewer		
Proposed Water Main		
To Be Removed		T.B.R.
Existing		Ex.
Downspout		DS

# County of Roanoke, VA

**\*NOTE: THIS COST ESTIMATE TABLE IS PROVIDED FOR BONDING PURPOSES ONLY. VERIFICATION OF ALL QUANTITIES AND PRICES FOR BIDDING PURPOSES SHALL BE THE RESPONSIBILITY OF THE BIDDER.**

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING		ACRES			
S.W.M. EXCAVATION		C.Y.			
S.W.M. EMBANKMENT		C.Y.			
DROP INLET DI-1	1	EACH	1,500.00		1,500.00
VDOT STD DI-3B	1	EACH	1,500.00		1,500.00
VDOT STD MH-2 (WITH SWM OUTLET STRUCTURE)		LUMP SUM			
8" SDR-35 PIPE		LIN. FT.			
15" HDPE PIPE	28	LIN. FT.	20.00		560.00
15" ALLUMINIZED CMP PIPE	42	LIN. FT.	20.00		840.00
15" ES-1					
15" HDPE END SECTION	1		300.00		300.00
24" HDPE PIPE		LIN. FT.			
FILTERRA S.W.Q. UNIT	1	EACH	11,000.00		11,000.00
48" ALLUMINIZED CMP S.W.M. PIPE	60	LIN. FT.	80.00		4,800.00
ACCESS PORT W/ MH-1 FRAME AND COVER	2	EACH	1,500.00		3,000.00
BOX CULVERT		LUMP SUM			
PAVED DITCH		LIN. FT.			
RIPRAP - CLASS		S.F.			
SODDED SWALE		S.Y.			
-IN. CONCRETE ENDWALL. EW-		EACH			
PAVEMENT (INCLUDING SUB-BASE)	900	S.Y.	15.00		13,500.00
CURB & GUTTER CG-6	98	LIN. FT.	16.00		1,568.00
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.			
COMMERCIAL WATER METER (1") & Lateral	1	EACH	1,500.00		1,500.00
		EACH			
FIRE HYDRANT ASSEMBLIES	1	EACH	3,500.00		3,500.00
BLOW OFFS W/VAULT, FRAME & COVER		EACH			
8 -IN. GATE VALVE, W/VAULT, FRAME & COVER		EACH			
-IN. GATE VALVE, W/VAULT, FRAME & COVER		EACH			
SANITARY SEWER MANHOLE		EACH			
8" PVC SANITARY SEWER MAIN		LIN. FT.			
6" SANITARY SEWER LATERAL & SAMPLING MANHOLE	1	EACH	\$ 2,500.00		\$2,500.00
LANDSCAPING (SEE SHEET C-08)	1	LUMP SUM	\$ 2,700.00		\$ 2,700.00
AS-BUILT PLANS	1	LUMP SUM	\$ 1,000.00		\$ 1,000.00
(STORMWATER MANAGEMENT & STORM SEWER)					
SUB-TOTAL					\$ 49,768.00
10% CONTINGENCY					\$ 4,977.00
ESTIMATED TOTAL					\$ 54,745.00
I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.					
SIGNED:			DATE:		

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 12VAC5-590-1150, where lines cross.)

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

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.

- ## Sheet Index

Horizontal and vertical control surveys were performed in year: 2013  
By: BALZER & ASSOCIATES, INC.  
All vertical elevations are based on an assumed datum.  
All horizontal elevations are based on an assumed datum.  
BALZER & ASSOCIATES, INC. 2013 &  
Source of topographic mapping is dated ROANOKE COUNTY AERIAL MAPPING  
Boundary was performed by BALZER & ASSOCIATES, INC. dated: 2013  
Benchmark Information: EX. SANITARY SEWER MANHOLE LID = 1140'  
SEE EXISTING CONDITIONS AND GRADING PLAN FOR EXACT LOCATION

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



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

15871 City View Drive, Suite 200  
Midlothian, Virginia 23113  
Phone: 804/794-0571  
FAX: 804/794-2635

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

COMMONWEALTH OF VIRGINIA  
*Chris Burns*  
 CHRISTOPHER P. BURNS  
 Lic. No. 047338  
 11/5/13  
 PROFESSIONAL ENGINEER

**APPROVED**

DRAWN BY: BTO  
DESIGNED BY: BTO  
CHECKED BY: CPB  
DATE: 9/19/2013  
REVISIONS: 10/18/2013  
11/5/2013



DEVELOPMENT PLAN APPROVED FOR CONSTRUCTION BY ROANOKE COUNTY		Department	Date
Development Review		PA	3/5/14
Engineering		MC	3/5/14
Water & Sewer		DMV	3/5/14
Planning & Zoning		BP	3/5/14

**WAFFLE HOUSE**  
**627 RELOCATION**

**6520 THIRLANE ROAD**  
**County of Roanoke, Virginia**

AS-BUILTS  
10/05/2014

SHEET No.:

# C01

JOB No.: R1300107.00