#### OLIANITITY OF OOCT COTIVATE

CLEARING AND GRUBBING	Constitution of the control of the c	QUANTITY 2.7	UNIT	UNIT PRICE 4,000.00	THE PARTY OF THE SECOND OF SECOND SEC	BONDA
EXCAVATION		5,960	C.Y.	2.50		
EMBANKMENT	The state of the s	3,154	C.Y.	5.00		
				0.00	10,,,,	
CURB INLET DI-7 TYPE III GRATE		. 2	EACH	1,800.00	3,600.00	
CURB INLET DI-			EACH			
	Live State S					
MANHOLE MH-						
MANHOLE MH-			EACH			
,			EACH			
15-IN. CONCRETE PIPE, CLASS III		515	LIN. FT.			
-IN. CONCRETE PIPE, CLASS IV		313	LIN. FT.	21.00	10,810.00	
, , ,			LIN. F.I.			
	-					
•						
-IN. C.M. CULVERT			LIN. FT.			
-IN. C.M. CULVERT			LIN. FT.			
	-					
2						
BOX CULVERT			LUMP SUM			
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PAVED DITCH			LIŅ. FT.			
NPS TO A COL	The state of the s					
RIPRAP - CLASS	- The second sec		S.F.			
ANDED CHAIR	S CONTRACTOR OF THE CONTRACTOR			1		
SODDED SWALE	***************************************		S.Y.			
15 IN CONCERT FURNISHED	4.00					
15 -IN. CONCRETE ENDWALL EW-1		1	EACH	400.00	400.00	
	-					·
15 -IN. END SECTION ES-1		3		740.00		
10 M. LIAO SCOTION ES-1		3	EACH	310.00	930.00	
						*
EADER CURB & GUTTER CG-2	W. Carrellian	410	g Fig. 9 con regu	40.00	4,100.00	
URB & GUTTER CG-6	- LUIS CONTRACTOR OF THE PARTY	366	LIN. FT.	10.00		
ALLEY GUTTER	Tankin and the same of the sam		LIN. FT.	10.50	3,843.00	
RAVEL BASE	University of the Control of the Con		S.Y.			
	The state of the s		V- 1.			
RAVEL SHOULDER	- I		S.Y.			* · · · · · · · · · · · · · · · · · · ·
URFACE TREATMENT	A Control of the Cont		S.Y.			
-IN. BIT. CONC.: TYPE B-	The same of the sa		S.Y.			
-IN. BIT. CONC.: TYPE S-			S.Y.			
-IN. BASE MATERIAL			C.Y.			
-IN. SUBBASE MATERIAL			C.Y.		-	
PAVEMENT W/ STONE BASE		2,014	C.Y.	16.00	32,224.00	
		~	·			
RAFFIC BARRICADE		~	EACH			
WATER LINE			LIN. FT.			
WATER LINE	1		LIN. FT.			
RE HYDRANT ASSEMBLIES	-					·
OW OFFS W/VAULT, FRAME & COVER			EACH			
-IN. GATE VALVES, W/VAULT, FRAME & CO	TVE D		EACH			<del></del>
-IN. GATE VALVES, W/VAULT, FRAME & CO	F 1		EACH			
The state of the s	1 1		EACH			
				E E		***************************************
				<u> </u>		-
SANITARY SEWER	-		LIN. FT.			
	-		7,000 V V P I I I			
ANDARD MANHOLE W/FRAME & COVER	-		EACH			
MPLING MANHOLE/PORT	100	1	EACH	2,110.00	2,110.00	
	NUI WALLAND				_,,,,,,,,,,	<del></del>
	The state of the s					
-BUILT PLANS	Property Control of the Control of t	1	LUMP SUM	3,000.00	3,000.00	
	No. of the last of					
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DOMINATED HANGE CO.	train-training to the state of					
ORMWATER MANAGEMENT	· ·	1	LUMP SUM	3,000.00	3,000.00	
*	Street Hills and Asia					
7 CONTINCENOV	WI NEW YORK OF THE PARTY OF THE					
6 CONTINGENCY	0				10,549.00	
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	Seat Line					
TIMATED TOTAL	Clarke El Annahirm Dell				116,036.00	
HMM ICD TOTAL	1					
THIRTED TOTAL	-					
INVATED TOTAL						

## 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. Subarade excavation

D. Installing storm sewers or culverts

E. Setting curb and autter forms

F. Placing curb and autter

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 Rognoke 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, Rognoke 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

All unsuitable 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 required 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.O.T. Standard SB-1.

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

Construction debris shall be containerized in accordance with the

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.

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

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, culver, sanitary sewer and storm sewer.

## <u>INDEX</u>

COVER SHEET SITE DIMENSIONAL & UTILITY PLAN GRADING PLAN PROFILES EROSION CONTROL PLAN EROSION CONTROL DETAILS NOTES AND DETAILS LANDSCAPE PLAN

6-20-01 REVISED PER COUNTY COMMENTS OF 6-1-01. 8-17-01 REVISED PER COUNTY COMMENTS OF 7-5-01. 9-14-01 REVISED PER COUNTY COMMENTS OF 9-7-01.

#### 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.

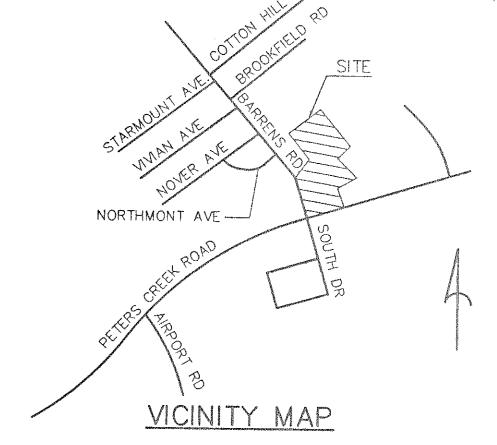
House connections are to be made with 4" pipe installed at a minimum grade of 1/4 inch to 1 foot in R/W.

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.O.T. standards.

Lines shall be staked prior to construction.

All water and sanitary sewer facilities are to be installed according to the Roanoke County Water and Sanitary Sewer Design and Construction



## 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.O.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 01-113 All water and sanitary sewer facilities are to be installed according to the Roanoke County Water and Sanitary Sewer Design and Construction

## LEGEND

Property Line			
Right-of-way		R/W	
Centerline		<u>C</u>	NAME OF THE PROPERTY OF THE PR
Minimum Building Line		M.B.L.	
Existing Storm Sewer	18" S.D.		=18" S.D.
Existing Sanitary Sewer	8" SAN		=8" SAN,======
Existing Water Main	A" W	<del></del>	4" W
Existing Contour	··· — — — — — — — — — — — — — — — — — —		
Proposed Contour		1045	
Proposed Drainage Divide			
Proposed Limits of Clearing			
Proposed Storm Sewer		24" S.D.	
Proposed Sanitary Sewer		8" M.H.	er Austrial (kompoziona en Sala de Austria de Sala de
Proposed Water Main	HYDRANT - VALVI	E/	BLOWOFF .
	<b>₩</b>		

### SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year) 1998 by ENGINEERING CONCEPTS, INC.

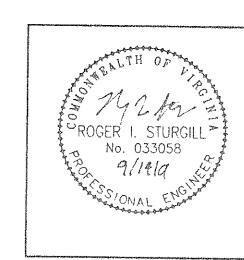
All elevations must be referenced to the North American Vertical Datum of 1988. (NAVDD88)

Source of topographic mapping is **ENGINEERING CONCEPTS**, INC. dated <u>1998</u>

Boundary was performed by\_ dated FROM DEEDS

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

BENCHMARK: Drop Inlet Northwest of the existing service area. TOP=1078.1 INV OUT=1073.0



PROFESSIONAL ENGINEER SEAL AND SIGNATURE

# COUNTY OF ROANOKE

NAME OF DEVELOPMENT	FIRST TEAM AUTO MALL	,OWNER/DEVELOPER, AM AWARE
	BODY SHOP	OF THE SITE DESIGN REQUIREMENTS IMPOSED BY
One in common that the depth of the property of the commence o		THIS SITE DEVELOPMENT PLAN AND OTHER APP-
MAGISTERIAL DISTRICT(S) HOLLIN		LICABLE COUNTY CODES. I HEREBY CERTIFY THAT
	HOLLINS	AGREE TO COMPLY WITH THESE REQUIREMENTS.
тительной на принценення на межения на межения на принценення на принценення на принценення на принценення на п		UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

FIRST TEAM AUTO MALL OWNER (name, address, telephone) 6900 PETERS CREEK ROAD ROANOKE, VA

DEVELOPER (name, address, telephone) SAME

TAX MAP NO(S)

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

27.14

BALZER & ASSOC. INC. 1208 CORPORATE CIRCLE ROANOKE, VA 24018

PARCEL NO(S)

SHEET 1 OF 8

AS BUILT DRAWING