PUBLIC IMPROVEMENT BOND COST ESTIMATE						
ITEM	QUANTITY	UNIT	 	VIT PRICE		ITEM TOTAL
Supply & Install 8" D.I. Waterline	4942	1	\$	30.00	\$	148,260.0
Supply & Install 8" Gate Valve	g Strand Maria - Marianana materia ny taoni materia materia. Na hana na mana matana materia ny ny ny materia ny	EACH	\$	1,000.00	\$	4,000.0
Supply & Install Fire Hydrant Assemblies	g National Control of the State of the Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-	EACH	\$	2,500.00	\$	10,000.0
Supply & Install Tapping Sleeve and Valve	many and the state of the state	EACH	\$	3,000.00	\$	6,000.0
Supply & Install Air Release Valve	The second secon	EACH	\$	2,500.00	\$	2,500.
Supply & Install 8" PVC SDR 35	1951		\$	30.00	\$	58,530.
Supply & Install Sanitary Sewer Manholes	g Maritima managaman ang katalang	V.F.	\$	350.00	\$	46,550.
Supply & Install Frame and Cover	territoria de la transmissione especialista de la compactación de la compacta de la compactación de la compa	EACH	\$	500.00	\$	9,500.
Supply & Install Connection to Existing Manhole	manga Karantan at tanggan ang a antang manahan ang manahan manahan manahan manahan manahan manahan manahan man	EACH	\$	1,500.00	\$	1,500.
Supply & Install CL III 18" RCP	4146		\$	30.00	\$	124,380.
Supply & Install CL III 24" RCP	1133		\$	35.00	\$	39,655.
Supply & Install CL III 30" RCP	to the contract of the contrac	L.F.	\$	45.00	\$	6,120.
Supply & Install CL III 36" RCP	902		\$	50.00	\$	45,100.0
Supply & Install CL III 42" RCP	643	L.F.	\$	58.00	\$	37,294.0
Supply & Install 48" CMP	48	L.F.	\$	35.00	\$	1,680.
Supply & Install VDOT MH-2	30	LF	\$	350.00	\$	10,500.0
Supply & Install VDOT DI-3B	58	EACH	\$	2,500.00	\$	145,000.0
Supply & Install VDOT DI-7	10	EACH	\$	2,000.00	\$	20,000.0
Supply, Place & Compact 8" Gravel Base	3,006	TONS	\$	18.00	\$	54,105.6
Supply & Place 2" SM-2A Surface Course	827	TONS	\$	75.00	\$	61,996.0
Supply & Place 4" BM-3 Asphalt Base Course	1,653	TONS	\$	75.00	\$	123,992.0
Construction of Concrete Curb & Gutter - CG-6	11,272	L.F.	\$	20.00	\$	225,440.0
Landscaping Shrubs	24	EACH	\$	75.00	\$	1,800.0
TOTAL			The section of the se		\$	1,183,902.6

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
- 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 required at the field inspection.

Location of guard rails shall be determined at a joint field inspection by the County and V.D.D.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 $V.D.\Box.T.$ 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, culver, sanitary sewer and storm sewer.

SEE DRAWING C01 FOR SHEET INDEX

SEE DRAWING C01 FOR VICINITY MAP

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year) by McKenzie Snyder, Inc., December 13, 2005.

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

Source of topographic mapping is McKenzie Snyder, Inc. dated December 13, 2005

Boundary was performed by Lumsden Associates

Western Virginia Water Authority Notes

General Notes:

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

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

iii. A pre-construction conference should be scheduled with the Roanoke County Engineering Division and the Western Virginia Water Authority, to be held at least one (1)

iv. The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Built plans before final acceptance.

v. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority, and/or V.D.O.T. inspectors.
vi. Field corrections shall be approved by the Roanoke County Engineering Division and the Western Virginia Water Authority prior to such construction.

Sewer Notes:

i. All sanitary sewer connections to existing lines shall be coordinated with and performed by the Western Virginia Water Authority.
 ii. All sanitary sewer facilities are to be installed according to the Western Virginia Water Authority Design and Construction Standards.

ij. All sanitary sewer national are to be instance according to the western virginia water if all sanitary sewer mains are to remain private until the first tenant occupies a building.

Water N

i. All water connections to existing lines shall be coordinated with and performed by the Western Virginia Water Authority.
 ii. All water facilities are to be installed according to the Western Virginia Water Authority Design and Construction Standards.

ii. Bends shown for waterlines may be eliminated and the waterline deflected as long as the deflection is within the limits recommended by the manufacturer of the pipe. See WVWA design & construction standards for accepable deflections.

COUNTY OF ROANOKE

NAME OF DEVELOPMENT SLATE HILL MAGISTERIAL DISTRICT(S) CAVE SPRING

CAVE SPRING

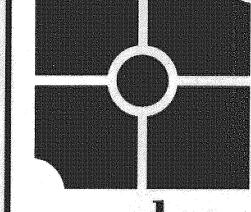
I, ______ OWNER/DEVELOPER, AM AWARE
OF THE SITE DESIGN REQUIREMENTS IMPOSED BY
THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE COUNTY CODES, I HEREBY CERTIFY THAT
I AGREE TO COMPLY WITH THESE REQUIREMENTS,
UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

UNNER (name, address, telephone) INTEGRA, LLC., 4415 PHEASANT RIDGE ROAD, SUITE 303, ROANOKE, VIRGINIA 24014, 540-769-5337

DEVELOPER (name, address, telephone) INTEGRA, LLC., 4415 PHEASANT RIDGE ROAD, SUITE 303, ROANOKE, VIRGINIA 24014, 540-769-5337

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) PARKER DESIGN GROUP, Inc., 816 BOULEVARD, SALEM, VIRGINIA 24153

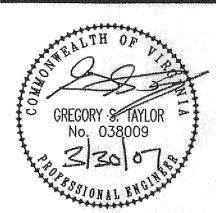
TAX MAP NO(S) SEE DRAWING COI BLOCK NO(S) PARCEL NO(S) PARCEL NO(S)



Parkel DESIGN GROUP

816 Boulevard Salem, Virginia 24153 Phone: 540-387-1153 Fax: 540-389-5767 www.parkerdg.com

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Site Development Plan Prepared for State Hill III, L.C.

REVISION

County & VDOT Comment
Augu
County & VDOT Comment
October
County, WVWA & VDOT
Decemb
County, WVWA & VDOT
Januar
County, WVWA & VDOT
Man

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SCALE: As Shown
DATE: April 7, 2006

SHEET TITLE:

Roanoke County Cover Sheet

CO2

02 OF 60

PROJECT NUMBER:

\$05047-03