COUNTY OF ROANOKE, VA

GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

1. 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. Storm Water Management Agreement must be an attached 8 1/2" x 11" or 8 1/2" x 14" plat to be approved and recorded prior to the pre-construction meeting.
3. Once all required items are submitted to the County of Roanoke, the developer should contact the Development Review Coordinator to indicate that a pre-construction meeting need to be scheduled. The pre-construction meeting will be scheduled with the owner/developer to (2) working days later.
4. 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 Environmental Quality. The Responsible Land Disturber can be anyone from the Project team that is certified by the County 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 Work Department if applicable.
7. An approved set of plans, Storm Water Pollution Prevention Plan (SWPPP), VSMP coverage letter, and all permits must be available at the construction site at all times.
8. The developer and/or contractor shall supply utility companies with copies of approved plans, addressing the 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.
10. The Erosion Control Permit or Combined Erosion Control & VSMP Permit is given to the developer at the pre-construction meeting.
11. Notify the County of Roanoke prior to beginning installation of ESC measures. The County will inspect initial installations to ensure compliance with approved plan prior to start of grading. The developer SHALL contact the project inspector 24 hours before beginning grading or construction on the property.
12. Contact inspector 48 hours before drain tower water analyses and VSMP installation of the process begin installation. Please contact the site inspector 24 hours in advance.
13. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and the Virginia Department of Transportation Inspector.
14. Contractor shall notify utilities of proposed construction at least two (2), but not more than ten (10) working days in advance. Any public utilities shall be notified to "Miss Utility": 1-800-552-7001 or VA 811.
15. The 100 Year Flood Area shall be staked prior to any construction.
16. Grade stakes shall be set for all cut and fill stakes, certified sanitary sewer and storm sewer at all times for construction.
17. The Department of Community Development shall be notified when a principal 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 cleaning equipment and/or truck and/or other equipment prior to entering public street or risking a fine. It is the contractor's responsibility to insure that the street are in a clean, good and safe condition at all times.
20. Plan approval in no way relieves the developer or contractor of the responsibilities contained within the erosion and sediment control ordinance and policies.
21. Field construction shall honor proposed drainage divides as shown on plan.
22. Field correction shall be approved by the Roanoke County Engineering Division and/or the Western Virginia Water Authority and the Professional Record, prior to construction.
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 an permit by the Virginia Department of Transportation.
25. A permit must be obtained from the Virginia Department of Transportation, Sale Residency Office prior to construction in the right of way.
26. The preliminary plan sent designed for road be based on a predicted ADT-Grade CBR value of 7.0 and with a Resilience Factor (RF) of 2.0 as shown in Appendix I of the 2000 Virginia Department of Transportation Pavement Design Guide for Secondary Road. The ADT-Grade soil is to be tested by an independent laboratory and the results submitted to the Virginia Department of Transportation prior to the construction. Should the ADT-Grade CBR value and/or the RF value be less than the predicted value, additional cover material will be required in accordance with Department specification. Refer to the cover analysis the number and location of the required soil samples to be tested. All pavement design submitted to the Department for review and approval. The ADT-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 (or dept) template, and compaction before the surface is applied.
27. Standard guardrail shall be installed behind section where required in illegible or in area where guardrail shall be needed necessary. After completion of the grading operation the County Engineer and Virginia Department of Transportation shall be contacted to schedule a field review. Where guard rail is warranted, the standard folder detail shall be provided and the guard rail shall be installed in accordance with the 2001 VDOT Road and Bridge Standards as part of the 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 on Uniform Traffic Control Devices" (MUTCD).
30. All construction material shall be removed from the construction limits of the road base before placing base asphalt.

See Sheet N/A for Storm Water Site Statistics Table.
See Sheet N/A for New MP Information Table.

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.

The notes on this sheet shall not be modified.

NAME OF DEVELOPMENT	**EXPLORE PARK GRAVITY S.S. EXTENSION**
MAGISTERIAL DISTRICT(S)	VINTON
OWNER (name, address, telephone)	VIRGINIA RECREATIONAL FACILITIES AUTHORITY, C/O BRIAN CARTER – FINANCE P.O. BOX 29800 ROANOKE, VIRGINIA 24018
DEVELOPER (name, address, telephone)	ROANOKE COUNTY PARKS, RECREATION, AND TOURISM, ATTN: MR. DOUG BLOUNT 1206 KESSLER MILL ROAD SALEM, VIRGINIA 24153
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)	BALZER AND ASSOCIATES, INC. ATTN: CHRIS BURNS, P.E. 1208 CORPORATE CIRCLE ROANOKE, VA 24018 540–772–9580 FAX 540–772–8050
TAX MAP NO(S)	080.00–05–24.00–0000

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.

WATER NOTES

All water facilities shall be constructed according to the Western Virginia Regional Design and Construction Standards (Latest Edition).

A minimum cover of three (3) feet is required over proposed line.

Contractor shall be responsible for locating and uncovering all water facilities prior to installation and adjustments to grade if necessary.

All existing utilities have not been shown in their exact location. The contractor shall comply with (State Water Work Regulation, Section 12VAC5-590-1150, where line crossings).

All trenches in existing streets or the roadway right-of-way shall be compacted according to Virginia Department of Transportation standards.

Line shall be staked prior to construction.

Water lines shall be minimum Class 50 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 Regional Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 psi.

Western Virginia Water Authority
Availability letter number: N/A

SEWER NOTES

All sanitary sewer facilities shall be installed according to the Western Virginia Regional Design and Construction Standards (Latest Edition).

A minimum cover of three (3) feet is required over proposed line.

Contractor shall be responsible for locating and uncovering all sewer lines after making the top shall be adjusted to grade if necessary.

All existing utilities have not been shown in their exact location. The contractor shall comply with (State Water Work Regulation, Section 12VAC5-590-1150, where line crossings).

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

Line shall be staked prior to construction.

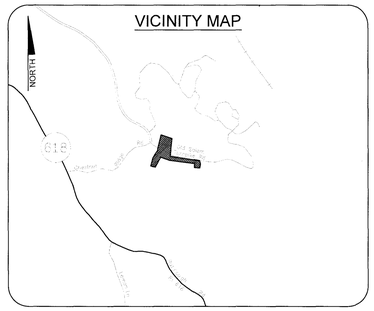
PRIVATE UTILITIES

Underground utilities installed on private property or private utility easements and building related storm drains shall be installed per the current edition of the Virginia Uniform State Building Code. Design and installation requirements exceed 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 Inspection Office. Valves, shall be and other fixtures installed on or under the control of the Western Virginia Water Authority shall not be installed for the code required depth.

NOT APPLICABLE

NOT APPLICABLE

VICINITY MAP



LEGEND

Property Line	
Right-of-Way	
Centerline	
Missing Building Line	MBL
Existing Storm Sewer	48"RCP 48"RCP
Existing Sanitary Sewer	8" SAN
Existing Water Main	8" WL
Existing Contour	1155
Proposed Contour	1155
Proposed Drainage Divide	
Proposed Limits of Clearing	
Proposed Storm Sewer	
Proposed Sanitary Sewer	8" SS
Proposed Water Main	8" W
To be Removed	T.B.R.

C1 COVER SHEET
C2 SANITARY SEWER PLAN VIEW
C3 PROFILE AND S.S. DETAILS
C4 ESC NOTES
C5 NOTES AND ESC DETAILS
C6 WATER AND SEWER DETAILS

Sheet Index

SURVEY INFORMATION

Horizontal and vertical control survey were performed in year: 2017
BALZER AND ASSOCIATES, INC.

All vertical elevations are referenced to the National Geodetic Vertical Datum of 1929 or 1988.
All horizontal elevations are referenced to the North American Datum of 1927 or 1983.

Horizontal Datum: VA STATE PLANE NAD83 Vertical Datum: NAVD88

Source of topographic mapping dated 2017

Boundary data performed on N/A dated N/A

Benchmark Information: EX. STORM INLET
CENTER OF MANHOLE ELEV.=1023.32

The professional seal and signature certifies that the boundary, property and topographic mapping to be accurate and correct.

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.

QUANTITY & COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
CLEARING AND GRUBBING		ACRES			
S.W.M. EXCAVATION		C.Y.			
S.W.M. EMBANKMENT		C.Y.			
NYLOPLAST DROP INLET		EACH			
8" TYPE S HDPE PIPE		LIN. FT.			
10" TYPE S HDPE PIPE		LIN. FT.			
12" TYPE S HDPE PIPE		LIN. FT.			
15" TYPE S HDPE PIPE		LIN. FT.			
BOX CULVERT		LUMP SUM			
PAVED DITCH		LIN. FT.			
RIPRAP - CLASS		S.F.			
SODDED SWALE		S.Y.			
-IN. CONCRETE ENDWALL EW-		EACH			
PAVEMENT (INCLUDING SUBBASE)					
CURB & GUTTER CG-		LIN. FT.			
GRAVEL SHOULDER		S.Y.			
SURFACE TREATMENT		S.Y.			
-IN. ASPHALT CONC. TYPE S-		S.Y.			
-IN. ASPHALT CONC. TYPE S-		S.Y.			
-IN. BASE MATERIAL		C.Y.			
-IN. SUBBASE MATERIAL		C.Y.			
COMMERCIAL WATER METER (1") & Lateral		EACH			
		EACH			
FIRE HYDRANT ASSEMBLIES		EACH			
BLOWOFFS 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.			
4" SANITARY SEWER LATERAL & SAMPLING MANHOLE		EACH			
LANDSCAPING (SEE SHEET C-08)		LUMP SUM			
AS-BUILT PLANS - STORM SEWER		LUMP SUM			
SUB-TOTAL					
10% CONTINGENCY					
ESTIMATED TOTAL					

BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.

BALZER AND ASSOCIATES INC.
REFLECTING TOMORROW
www.balzer.cc
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ENGINEERS • SURVEYORS

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FAX: 540/248-3221

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Suite 301
Harrisonburg, Virginia 22801
Phone: 540/433-1908

COMMONWEALTH OF VIRGINIA
CHRISTOPHER P. BURNS
Lic. No.047338
4/25/18
PROFESSIONAL ENGINEER

DRAWN BY:	CPB
DESIGNED BY:	CPB
CHECKED BY:	BTC
DATE:	11/9/2017
REVISIONS:	12/18/2017 1/24/2018 4/25/2018

EXPLORE PARK GRAVITY S.S. EXTENSION

OLD SALEM TURNPIKE ROAD
County of Roanoke, Virginia

SHEET No.: C1

JOB No.: 04170086.00