

Commission of Architectural Review Certificate of Appropriateness Application

900 E. Broad Street, Room 510 Richmond, VA 23219 804-646-6569

Property (location of work)									
Property Address: 2516 E Leight St	Current <u>Zoning</u> :R-63								
Historic District: Church Hill North									
Application is submitted for: (check one)									
Alteration									
Demolition									
New Construction									
Project Description (attach additional sheets if needed):									
Renovation of existing independent living apartments for seniors, 62 units.									
Applicant/Contact Person: Jason lannotti									
Company: Bruno Clay Management									
Mailing Address: 440 Maple Ave East, Suite 203									
City: Vienna	State: VA	Zip Code: <u>22180</u>							
Telephone: (<u>703</u>)887-1170									
Email: jiannotti@brunoclay.com									
Billing Contact? Yes Applicant Type (owner, architect, etc.):	Agent	•							
Property Owner: Bowler Housing L.P									
If Business Entity, name and title of authorized signee: David White									
Mailing Address: PO BOX 5127									
City: Richmond	State: VA	Zip Code: <u>23220</u>							
Telephone: (<u>804</u>)833-5963									
Email: DWhite@swa-co.com									
Billing Contact? No									

Owner must sign at the bottom of this page

Acknowledgement of Responsibility

Compliance: If granted, you agree to comply with all conditions of the certificate of appropriateness (COA). Revisions to approved work require staff review and may require a new application and approval from the Commission of Architectural Review (CAR). Failure to comply with the conditions of the COA may result in project delays or legal action. The COA is valid for one (1) year and may be extended for an additional year, upon written request and payment of associated fee.

Requirements: A complete application includes all applicable information requested on checklists available on the CAR website to provide a complete and accurate description of existing and proposed conditions, as well as payments of the application fee. Applications proposing major new construction, including additions, should meet with staff to review the application and requirements prior to submitting. Owner contact information and signature is required. Late or incomplete applications will not be considered.

Zoning Requirements: Prior to Commission review, it is the responsibility of the applicant to determine if zoning approval is required. Application materials should be prepared in compliance with zoning.

Property Owner Signature:

Docusigned by:		
	Date:	11/14/2024
E613DE7BF14D4BA		

Certificate of Appropriateness Application Instructions

Staff Contact: (804)-646-6569 | <u>alex.dandridge@rva.gov</u>

Before You Submit

In advance of the application deadline, please contact staff to discuss your project, application requirements, and if necessary, to make an appointment to meet with staff for a project consultation. The CAR website has additional project guidance and required checklists: <u>www.rva.gov/planning-development-review/commission-architectural-review.</u>

Application deadlines are firm. All materials must be submitted by the deadline to be considered at the following Commission meeting. Designs must be final at the time of application; revisions will not be accepted after the deadline. Incomplete and/or late applications will not be placed on that month's agenda.

Submission Requirements

Please submit applications to staff via email with the project address in the subject line. Submit the following items via email to staff:

- One (1) signed and completed application (PDF) property owner signature required.
- Supporting documentation, as indicated on the <u>checklist</u>, which can be found under the 'Application Information' tab on the website.
- Payment of application fee, if required. <u>Payment of the fee must be received before the application will be</u> <u>scheduled</u>. An invoice will be sent via the City's Online Permit Portal. Please see <u>fee schedule</u> available on the CAR website for additional information.

A complete application includes a signed application form, legible plans, drawings, elevations, material specifications, and payment of the required fee as described in the City Code of Ordinances Sec. 30-930.6(b). The Commission will not accept new materials, revisions, or redesigns at the meeting. Deferral until the following month's meeting may be necessary in such cases to allow for adequate review by staff, Commissioners, and public notice, if required.

Meeting Information and Application Due Dates

- The Commission meets on the fourth Tuesday of each month, except for December when it meets on the third Tuesday.
- Application hearings start at 4:00pm. Meetings are held in person at City Hall in the 5th floor conference room.
 Participation via Microsoft Teams is available. It is strongly recommended that at least one person, either the owner or applicant, attend the meeting in person.
- All applications are due at 12 noon the Friday after the monthly CAR meeting, except in December, when applications are due the following Monday. For a list of meeting dates and submission deadline dates for each meeting please visit www.rva.gov/planning-development-review/commission-architectural-review or contact staff.
- Revisions to applications that have been deferred or conceptually reviewed at a CAR meeting can be submitted nine
 (9) business days after that meeting in order to be reviewed at the following meeting. Please contact staff to confirm this date.
- New construction will be required to go through a conceptual review. The conceptual review is non-binding.
- Applicants are encouraged to reach out to any relevant civic associations and immediate neighbors for new construction or large-scale projects prior to submitting to the Commission of Architectural Review.



BOWLER SENIOR HOUSING PARKING LOT IMPROVEMENTS

LEGEND

<u>ROADS</u>

EXISTING CULVERT CURB CURB & GUTTER

STORM SEWER



STORM SEWER PIPING STORM SEWER INLET & NUMBER BENCH MARK CLEARING LIMITS/TREELINE VDOT STANDARD STOP SIGN EXISTING CONTOUR

PROPOSED SPOT ELEVATION

<u>WATER</u>

- PROPOSED WATER LINE VALVE REDUCER PLUG CROSS TEE FIRE HYDRANT (COMPLETE) W/ 8"X6" TEE, 6" GV & 6" LATERAL SINGLE SERVICE CONNECTION

<u>SEWER</u>



O-S-S-S-O EXISTING SANITARY SEWER PROPOSED PVC SANITARY SEWER PROPOSED D. I. SANITARY SEWER M.H. NUMBER

Stormwater Manage	ement Facility Data:	Bowler Senior Ho	ousing												
Stormwater	Stormuster	Stormwater	Loc	ation	Acres Tre	eated By Fa	acility	Polluta	ant Remov	al, Ibs	Runoff	HUC (6th order)	Impaired Water Segment	Ownership Of	
Management Facility Type	Management Facility Man Type Des	Management Description	Management Facility Structure Number	Latitude	Longitude	Impervious Acres	Pervious Acres	Total Acres	TP	ΤΝ	TSS	captured, acre- feet	Of Location Of Facility	To Which Facility Discharges	Facility (Public/Private)
Open Grid Block Pavers	Open Grid Block Pavers	BMP	37.5344	-77.4152	0.000	0.007	0.007	-	-	-	0.000	JL01	James River Almond Creek	Private	
Open Grid Block Pavers	Open Grid Block Pavers	BMP	37.5344	-77.4152	0.000	0.007	0.007	-	-	-	0.000	JL01	Almond Creek	Private	

July 31, 2024

2516 E. LEIGH STREET CITY OF RICHMOND, VIRGINIA



E+S STATISTICS									
EROSION + SEDIMENT CONTROL MEASURES QUANTITY									
CONSTRUCTION ENTRANCE		1 EAC	Н						
SILT FENCE		366 L	.F.						
TREE PROTECTION FENCING		67 L	.F.						
STORM DRAINAGE ITEMS QUANTITY									
-		– L.F.							
LOT STATIS	LOT STATISTICS								
TOTAL LOT AREA		27,32	3 SF						
AMOUNT OF IMP. SURFACE AREA		17,217	7 SF*						
AMOUNT OF PER. SURFACE AREA		4,776 SF*							
AMOUNT OF OPEN GRID PAVERS	297 SF*								
AMOUNT OF LAND DISTURBANCE 15,019 SF=0.34 AC									
SEWER DESIGNATION									
MS4		YES	Х	NO					
COMBINED SEWER (CSS)	Х	YES		NO					
BAY DESIGNATION									
CHESAPEAKE BAY AREA		YES	X	NO					
IF YES,		RMA		RPA					

*AREAS LISTED REPRESENT AREAS WITHIN THE DISTURBED AREA OF THE PARKING LOT THAT DRAINS TOWARD THE POINT OF ANALYSIS.

NOTE: ALL QUANTITIES LISTED ARE FOR REVIEW PURPOSES ONLY. CONTRACTO SHALL PERFORM THEIR OWN TAKE OFF FOR CONSTRUCTION PURPOSES

Claire M. Smith, PE, LEED AP certify that the information above is

a toft correct. Signed

Preparer's Seal/Stamp

PO BOX 5127

DEVELOPER:

ARCHITECT SWA ARCHITECTS-VA, INC 1553 E. MAIN STREET RICHMOND, VA 23219 CONTACT: BEAU WOODRUM PHONE: 804 237-8254 EMAIL: BWOODRUM@SWA-CO.COM

CIVIL ENGINEER GRADIENT, PC

SHEET INDEX

C0.0 C0.1 C1.1 C2.2

Site Survey Notes & Details

Cover Sheet

- Erosion Control Notes and Details
- Ex. Conditions, Demolition & E&SC Plan
- C3.1a Universal Design Site Plan
- C3.1 Site Layout, Grading & Drainage Plan

PROJECT DATA

PROJECT NOTES ZONING:

EXISTING USE:

ACREAGE:

BUILDINGS:

PARKING:

PROPOSED USE:

OWNER/DEVELOPER BOWLER HOUSING LP C/O TONEY A WEBB RICHMOND, VA 23230 CONTACT: TONEY A WEBB

BRUNO CLAY MANAGEMENT, LLC 440 MAPLE AVE, EAST SUITE 203 VIENNA, VA 22180 CONTACT: JASON IANNOTTI EMAIL: JIANNOTTI@BRUNOCLAY.COM PHONE: 703-887-1170

1406 LABURNUM PARK BOULEVARD

RICHMOND, VA 23227 CONTACT: CLAIRE SMITH SHIRLEY, PE, LEED AP PHONE: 804.399.0500

EMAIL: CLAIRE@GRADIENTENVIRONMENT.COM

RELATED PERMITS

BUILDING PERMIT MECHANICAL PERMIT ELECTRICAL PERMIT PLUMBING PERMIT

LAND DISTURBANCE PERMIT STORM DRAINAGE PERMIT WORK-IN-STREET PERMIT

NOTE:

THIS SITE DOES NOT LIE WITHIN A CHESAPEAKE BAY RMA OR RPA. THIS SITE LIES WITHIN THE CITY'S COMBINED SEWER SYSTEM (CSS)

CITY APPROVALS

R-63 MULTI-FAMILY RESIDENTIAL MAP REFERENCE #: E0000382006B PROJECT SUMMARY: RENOVATION INDEPENDENT LIVING APARTMENTS FOR SENIORS INDEPENDENT LIVING APARTMENTS FOR SENIORS 0.34 ACRES 1 existing

9 SPACES



Project Number: 2402 @Gradient 2024





		VIRGINIA E+SCH MINIMUM STANDARDS
•	PERM SEVEI STABI FINAL SHALI	MANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN IN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL ILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT _ GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION L BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
•	DURIN STABI FOR SITE	NG CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE ILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT
	SITE. A PE PERM UNTIL	ERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE MANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED L A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL DIT EPOSION
	SEDIN INTEN LAND	MENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES NDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY INDISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND IRBANCE TAKES PLACE
	SEDIN DIVER SEDIN THE a.	MENT MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND RSIONS IMMEDIATELY AFTER INSTALLATION. MENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS
	Ь.	SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL AT A MINIMUM MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL
		CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED. AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF
	PERM UNTIL CONC WITHI	IANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES L THE PROBLEM IS CORRECTED. CENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED IN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
•	WHEN SHAL	NEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION L BE PROVIDED. STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE TECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT
•	FIRST BEFO OPER CHAN CHAN	TRENDED OF OTHERWISE TREATED TO REMOVE SEDIMENT. RE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE RATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT INEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING INFL.
•	WHEN MINIM THE USED FOR WHEN	WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE) FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS. N A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE
	IN AN NONE ALL /	NY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF ERODIBLE MATERIAL SHALL BE PROVIDED. APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR
5. 5.	THE THE UNDE	BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN WATERCOURSE IS COMPLETED. ERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING
	STANI a. b. c.	DARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT
	d. e.	DUES NUT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
7.	f. WHER PROV ONTO SURE	APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH. RE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, /ISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING) THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD FACE THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE FOL OF FACH DAY
	SEDIN TRAN ONLY	MENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND ISPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO IDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
•	ALL DAYS NEED SEDIN MFAS	TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 5 AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER DED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED MENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY SURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER FROSION AND
•	SEDIN PROP FROM	MENTATION. PERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED A SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY DEAK FLOW DATE OF STORINGTED DIVERSE FOR THE STATED FERDING. STORING OF A
	AND 24−⊦ a.	PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA: CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE DEPEODMED
	ь. THE ANAL	APPLICANT SHALL DE FERTORINED. AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER: APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF YSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING
	DRAIN a. THAT OR B	NAGE AREA OF THE PROJECT IN QUESTION, OR NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO—YEAR STORM TO VERIFY STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED BANKS.
	b.	ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND
	c. d.	PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
	IMPR(BANK OR IMPR(OVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE (S AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS
	CONT DEVEI FROM WILL INCRE PROV	TAINED WITHIN THE APPURTENANCES; OR LOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE A A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO EASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR A COMBINATION OF CHANNEL IMPROVEMENT. STORMWATER DETENTION OR OTHER
	MEAS DOWN d.	SURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT NSTREAM EROSION. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
	с. f.	CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE
	g.	THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STARILIZED TRANSITION FROM THE FACILITY TO
	h. i.	THE RECEIVING CHANNEL. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON
	j.	ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY. IN APPLYING THESE STORWWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL DE CONSIDERED TO BE A SINCLE DEVELOPMENT PROJECT. HYDROLOGIC DADAMETERS THAT
	k.	REFLECT THE ULTIMATE DEVELOPMENT CONDITIONS SHALL BE USED IN ALL ENGINEERING CALCULATIONS. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN
	Ι.	A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND
		VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5. 2. AND 10-YEAR. 24-HOUR STORMS TO A
		LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT
	m.	FROM ANT FLOW KATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:54 OR 62.1-44.15:65 OF THE ACT. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY DEDUCTION OF A CALL AND A CAL
		VELOCITY REQUIREMENTS OF § <u>62.1-44.15:52</u> A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ <u>62.1-44.15:24</u> ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN
		ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN <u>9VAC25-870-47</u> OR GRANDFATHERING IN <u>9VAC25-870-48</u> OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF \$ 621-4415:52 A OF THE ACT SHALL APPLY
	n.	OR (II) ARE EXEMPT PURSUANT TO § <u>62.1-44.15:34</u> C 7 OF THE ACT SHALL APPLY, COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN <u>9VAC25-870-66</u> OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION SHALL BE

DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

(FROM CHAPTER 6 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK)

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 9VAC25-840 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY AND ONE WEEK PRIOR TO FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIME DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

CITY OF RICHMOND STANDARD E+ S CONTROL NOTES

- 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN, DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- 2. EXCESS EXCAVATION DISPOSED OF OFF THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
- 3. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP OF THE LAND DISTURBING ACTIVITY.
- 4. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED SO THAT THE SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE FACILITIES.
- 5. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED.
- 6. PROPERTIES ADJOINING THE SITE SHALL BE KEPT CLEAN OF MUD OR SILT CARRIED FROM THE SITE BY VEHICULAR TRAFFIC OR RUNOFF.
- 7. THE DISPOSAL OF WASTE MATERIALS REMOVED FROM FROSION AND SEDIMENT CONTROL FACILITIES AND THE DISPOSAL OF THESE FACILITIES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
- 8. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 9. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

EROSION AND SEDIMENT CONTROL MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT BY THE REGISTERED LAND DISTURBER (RLD) LISTED ON THE PERMIT FOR THIS PROJECT. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE MADE BY THE CONTRACTOR IMMEDIATELY. ALL SEDIMENT REMOVED FROM EROSION CONTROL PRACTICES SHALL BE DISPOSED OF IN AN AREA PROTECTED FROM EROSION. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:

3.02 CONSTRUCTION ENTRANCE

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. 2. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. 3. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR
- TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

<u>3.05 SILT FENCE</u>

- 1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING.
- 3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE
- HEIGHT OF THE BARRIER. 5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

3.38 TREE PRESERVATION AND PROTECTION . THE TREE PROTECTION FENCING SHALL BE INSPECTED WEEKLY TO ENSURE IT IS STANDING FIRMLY AND PROVIDING PROTECTION TO DAMAGE FROM CONSTRUCTION EQUIPMENT.

- 2. IF TREE PROTECTION FENCING IS KNOCKED DOWN IT SHALL BE REPAIRED/REPLACED IMMEDIATELY. TREES SHALL BE INSPECTED FOR DAMAGE.
- 3. ANY DAMAGE TO TREES SHALL BE TREATED IN ACCORDANCE WITH VAESCH CHAPTER 3.38
- 4. TREE PROECTION FENCING SHALL REMAIN IN PLACE UNTIL DAMAGE TO VEGETATION IS NO LONGER A THREAT.

- EROSION AND SEDIMENT CONTROL NARRATIVE
- A. PROJECT DESCRIPTION:
- THIS PROJECT REQUIRES SITE DEMOLITION, GRADING AND PAVING APPROPRIATE FOR THE IMPROVEMENTS TO THE EXISTING PARKING AND LANDSCAPING AREAS AND ACCESS TO THE EXISTING BUILDING. THE DISTURBED AREA WILL BE APPROXIMATELY 0.34 AC.

B. EXISTING SITE CONDITIONS:

- THE EXISTING SITE IS DEVELOPED WITH AN EXISTING SENIOR HOUSING BUILDING AND ASSOCIATED PARKING LOT, WHICH WILL BE RENOVATED. EXISTING DRAINAGE ON THE SITE RUNS GENERALLY FROM EAST TO NORTHWEST TOWARD THE EAST LEIGH STREET AND ULTIMATELY TO THE INTERSECTION OF N. 25TH & M STREETS. C. ADJACENT AREAS:
- THE ADJACENT PARCELS ARE GENERALLY RESIDENTIAL IN NATURE. THE SITE IS BORDERED
- ON THE SOUTH AND EAST BY PUBLIC ROADWAYS AND ON THE NORTH AND WEST BY ALLEYWAYS. THERE DOES NOT APPEAR TO BE ANY SIGNIFICANT OFFSITE DRAINAGE ENTERING THE SITE.
- D. OFF-SITE AREAS:
- THIS PROJECT WILL NOT ADVERSELY IMPACT OFF SITE AREAS. IF OFF-SITE BORROW MATERIAL IS REQUIRED TO COMPLETE THE WORK, OR IF THE CONSTRUCTION RESULTS IN EXCESS SOIL MATERIALS THAT CANNOT BE USED ONSITE, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER EROSION CONTROL MEASURES AND PERMITS ARE IN PLACE, FUNCTIONAL AND MAINTAINED AT BORROW OR SPOIL SITE LOCATIONS.
- E. SOILS:
- ACCORDING TO USDA SOIL SURVEY SOIL IN THE AREA OF THE PROPOSED CONSTRUCTION IS 5A ATLEE URBAN LAND COMPLEX. SOIL CLASSIFICATION IS HYDROLOGIC GROUP C, MODERATELY WELL DRAINED WITH A MODERATE EROSION FACTOR. VISUAL INSPECTION OF THE SITE INDICATES THAT THE SOIL DOES NOT APPEAR TO BE PARTICULARLY SUSCEPTIBLE TO EROSION.
- F. CRITICAL AREAS: THERE DO NOT APPEAR TO BE ANY CRITICAL EROSION AREAS ON THE SITE. HOWEVER, SITE WILL BE PROTECTED FROM SOIL LOSS AT ALL TIMES DURING CONSTRUCTION.
- G. EROSION & SEDIMENT CONTROL MEASURES CONSTRUCTION ENTRANCE – 3.02: TEMPORARY CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AT THE LOCATION(S) INDICATED ON THE PLANS.

<u>SILT FENCE BARRIER – 3.05</u>: SILT FENCE SEDIMENT BARRIERS SHALL BE PROVIDED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED.

STORM DRAIN INLET PROTECTION - 3.07: INLET PROTECTION SHALL BE INSTALLED ON CURB AND DROP INLETS TO FILTER SEDIMENT AS INDICATED.

H. PERMANENT STABILIZATION:

AREAS NOT PAVED OR LANDSCAPED WILL BE OR SEEDED AND/OR MULCHED ACCORDING TO VAESCH REQUIREMENTS. SEEDED AREAS WILL UTILIZE THE MINIMUM CARE LAWN SPECIFICATIONS.

I. STORMWATER RUN-OFF CONSIDERATIONS:

- THIS SITE LIES WITHIN THE CITY'S COMBINED SEWER SERVICE AREA, STORMWATER QUALITY ANALYSIS IS NOT REQUIRED. STORMWATER QUANTITY ANALYSIS IS PROVIDED FOR THE ENTIRE SITE AS DESCRIBED IN THE NARRATIVE ON SHEET C3.1.
- THE DISTURBED AREA OF THE SITE WILL BE LESS THAN ONE ACRE, THEREFORE VSMP/RSMP PERMITTING NOT IS REQUIRED. _____ SITE LIES WITHIN ZONE X PER FEMA MAP #510129 0044D.

J. CALCULATIONS:

WATER QUANTITY: THE POINT OF ANALYSIS IS THE LOCATION WHERE THE DRAINAGE AREA ENTERS THE CITY STORM SEWER SYSTEM NEAR THE INTERSECTION OF N. 25TH AND M STREETS.

INCREASED RUNOFF FROM THE SITE WILL BE ATTENUATED BY INSTALLING PERMEABLE OPEN GRID PAVERS FOR TWO SPACE WITHIN THE PROPOSED PARKING LOT. REFER TO DRAWING C3.1 FOR DETAILS AND CALCULATIONS.

CONSTRUCTION SEQUENCE

PHASE I

- THE OWNER SHALL GIVE THE INSPECTOR 48 HOURS NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING FOR THE ISSUANCE OF A LAND DISTURBANCE PERMIT. THE CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) MUST ATTEND THE PRE-CONSTRUCTION MEETING.
- 2. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCING AND SILT FENCING AS THE FIRST MEASURES OF CONSTRUCTION OPERATIONS.
- 3. BEGIN SITE DEMOLITION ONCE EROSION CONTROL MEASURES ARE IN PLACE.
- 4. BEGIN SITE GRADING OPERATIONS.
- 5. BRING THE SITE TO SUB-GRADE ELEVATIONS AND PROVIDE SMOOTH GRADES.

<u>PHASE II</u>

- 6. INSTALL PAVING, CURBING, SIDEWALKS, SITE FENCING, AND SIGNAGE ETC.
- 7. INSTALL VEGETATION AND GROUND COVER IN LANDSCAPED AREAS.
- 8. AS THE SITE REACHES FINAL GRADE IN UNPAVED AREAS, INSTALL TOPSOIL, SEEDING OR SOD, AND MULCHING AS SOON AS POSSIBLE.
- 9. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THERE IS NO LONGER A THREAT TO TRANSPORT SOIL FROM THE CONSTRUCTION SITE.
- 10. REMOVE EROSION CONTROL MATERIALS <u>ONLY</u> AFTER OBTAINING APPROVAL FROM THE CITY E&S INSPECTOR, SITE IS FULLY STABILIZED AND THERE IS NO LONGER A THREAT OF SOIL EROSION FROM THE SITE.









EROSION CONTROL LEGEND



CONSTRUCTION ENTRANCE

TREE PROTECTION FENCING

LIMITS OF DISTURBANCE



Project Number: 2402 ©Gradient 2024

UN	JIVERSAL DESIGN (
	62 FXISTING APARTM
	18 PARKING SPACES
•	
	GREATER THAN 5%
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	PARKING IS 5' FROM
•	ALL OTHER SIDEWAL
•	ALL CURB CUTS ARE
٠	ACCESSIBLE ROUTE
	BEHIND OR THROUGH
COI	NTRACTOR SHALL VERI
	LUING AT MAX 2% CRU
АM	ENTLY AREAS HAVE ACC

UD COMPLIANT ACCESSIBLE DUMPSTER MAX 2% SLOPE IN ALL DIRECTIONS 60" DIAMETER TURNING SPACE

MAX. 5% RUNNING SLOPES

4





General Notes

survey of the premises shown hereon.

2. This survey was made without the benefit of a Title Report and

not shown hereon.

but is located in Zone (X) Area of Minimal Flood Hazard, as determined by National Flood Insurance Program, Federal Emergency

