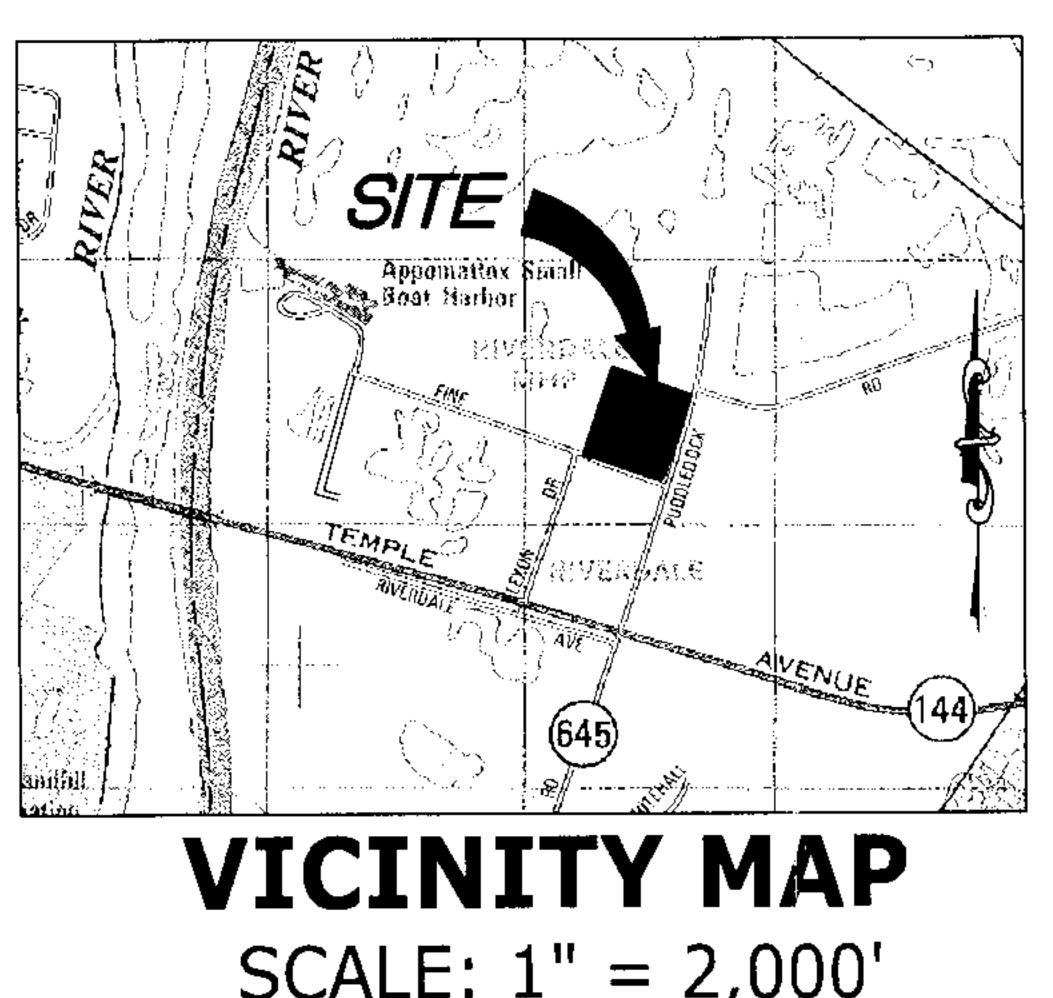
4VAC50-30-40. MINIMUM STANDARDS

- An erosion and sediment control program adopted by a district or locality must be consistent with the following criteria, techniques and methods: 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 for longer than 30 days. Permanent stabilization shall be applied to areas that are to
- achieved that is uniform, mature enough to survive and will inhibit erosion.
- Stabilization measures shall be applied to earthen structures such as dams, dikes and
- A) 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 than three acres.
- capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall
- Slopes that are found to be eroding excessively within one year of permanent stabilization shall with additional slope stabilizing measures until the problem is corrected.
- Whenever water seeps from a slope face, adequate drainage or other protection shall be
- . All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
- Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be
- possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by
- 13. When a live watercourse must be crossed by construction vehicles more than twice in any six—month period, a temporary vehicular stream crossing constructed of nonerodible material 14. All applicable federal, state and local chapters pertaining to working in or crossing live
- watercourses shall be met. 15. The bed and banks of a watercourse shall be stabilized immediately after work in the
- watercourse is completed. 16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria: A) No more than 500 linear feet of trench may be opened at one time.
-) Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing
-)) Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
-) Restabilization shall be accomplished in accordance with this chapter. ') Applicable safety chapters shall be complied with.
- made to minimize the transport of sediment by vehicular tracking onto the paved surface. be allowed only after sediment is removed in this manner. This provision shall apply to individual
- 18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise by the local program authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent
- 19. Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria: A) Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving 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 performed. B) Adequacy of all channels and pipes shall be verified in the following manner:) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question: or
- (2) (a) Natural channels shall be analyzed by the use of a two—year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks. (b) All previously constructed man—made channels shall be analyzed by the use of (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
- (c) 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. C) If existing natural receiving channels or previously constructed man-made channels or pipes
- are not adequate, the applicant shall: and a two—year storm will not cause erosion to channel the bed or banks; or (2) Improve the pipe or pipe system to a condition where the ten-year storm is contained
-) Develop a site design that will not cause the pre—development peak runoff rate from a pre-development peak runoff rate from a ten-year storm to increase when runoff outfalls
- which is satisfactory to the plan approving authority to prevent downstream erosion. The applicant shall provide evidence of permission to make the improvements. e. All hydrologic analyses shall be based on the existing watershed characteristics and
- I from the locality of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible
- 1. 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
- development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations. k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.

DATE	SHEET NUMBERS	BY
8/10/09	U1.0 & U1.1	BKJ
9/6/09	C1.0 & C1.1	KNH
11/13/09	C1.0 & C1.1	KNH
12/3/09	C0.0 & C1.0	KNH
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PUDDLEDOCK PLACE

PUMP STATION AND FORCE MAIN PRINCE GEORGE COUNTY, VIRGINIA



SCALE: 1'' = 2,000'COPYRIGHT ADC THE MAP PEOPLE PERMITTED USE NO. 20393659

JIM CLAYTON

OWNER/DEVELOPER

16 JULY 2009

VIRGINIA DEPARTMENT OF TRANSPORTATION PETERSBURG RESIDENCY

SUBDIVISION AND SITE CONSTRUCTION PLAN GENERAL NOTES

ALL MATERIALS AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH CURRENT MRGINIA				
DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS, STANDARDS, CURRENT WORK AREA PROTECTION MANUAL, AND ALL AI	PLICABLE			
LOCATION AND DESIGN INSTRUCTIONAL AND INFORMATIONAL MEMORANDUMS.				
LAND USE PERMITS (LUP-A) MUST BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNIA	NG ANY			

- WORKSHEET APPENDIX IV SHALL BE INCLUDED WITH THE INITIAL PLAN SUBMITTAL FOR EACH PROPOSED PAVEMENT SECTION UTILIZING THE PREDICTED SOIL SUPPORT VALUE SHOWN IN APPENDIX FOR THE PAVEMENT DESIGN GUIDE. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY
- LINES, WATER LINES, ETC., PRIOR TO CONSTRUCTION. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS. SUB GRADES. OR OTHER ROADWAY CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL IMMEDIATELY CONTACT A GEOTECHNICAL ENGINEER AND VDOT. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE GEOTECHNICAL ENGINEER, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE
- WITH CURRENT VDOT SPECIFICATIONS. 8. ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT DRAINAGE MANUAL.
-). ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH CURRENT VERSIONS OF I & I IIM-LD-121.15. PIPE WITHIN THE RIGHT OF WAY SHALL BE A MINIMUM CL-III OR GREATER IN ACCORDANCE WITH CURRENT VDOT STANDARDS AND SPECIFICATIONS. 10. ALL PRE-CAST UNITS SHALL BE VDOT APPROVED. CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS. SHOP DRAWINGS,
- GEOTECHNICAL DATA AND SOIL BEARING CAPACITY, AND PLAN VIEW SHALL BE SUBMITTED AS A PACKAGE FOR VOOT REVIEW AND APPROVAL. ALL CONCRETE SHALL BE CLASS A3—AE (AIR ENTRAINED 3,000 PSI). 12. ALL ENTRANCES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS. RESIDENTIAL LOT ACCESS SHALL BE PROVIDED PER THE FOLLOWING CRITERIA: (a) ALL DRIVEWAY ENTRANCE CULVERTS ARE TO BE A MINIMUM OF 15" DIAMETER X 20' LONG PIPE AND SHALL CONFORM TO PE-1 PRIVATE
- ENTRANCE STANDARDS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. NO ENTRANCE CULVERTS ARE TO BE INSTALLED WITHIN FIVE (5) FEET OF A PROPERTY CORNER. (b) VDOT STANDARD CG-9D ENTRANCES SHALL BE INSTALLED WHEN LOCATED ALONG CG-6 CURB AND GUTTER. THE SAW-CUTTING INSPECTIONS TO BE PERFORMED BY VDOT SHALL BE REQUESTED IN WRITING, 48 HOURS PRIOR TO ENTRANCE INSTALLATION. 13. THE DEVELOPER IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TRAFFIC CONTROL SIGNS WITHIN THE PROPOSED DEVELOPMENT THE CONTRACTOR SHALL CONTACT VDOT INSPECTION STAFF TO ESTABLISH LOCATIONS FOR ANY SIGNAGE REQUIREMENTS AS DEEMED
- NECESSARY BY VDOT. INSTALLATION OF SAID SIGNS SHALL OCCUR AT NO EXPENSE TO THE STATE AND PRIOR TO STATE ACCEPTANCE OF ROADWAYS 14. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS NEED TO BE RESUBMITTED TO VDOT PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED PLANS AND/OR
- DRAINAGE COMPUTATIONS, AND SHALL BE SUBMITTED, TO VOOT FOR REVIEW AND APPROVAL BY THE RESIDENT ENGINEER . CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN
- EXISTING AND/OR PROPOSED RIGHT OF WAY REQUIRED BY THE DEVELOPMENT. 16. ALL STREET LIGHTS SHALL BE LOCATED A MINIMUM OF 9.5' FROM THE EDGE OF PAVEMENT ON CURB AND GUTTER STREETS AND/OR LOCATED A MINIMUM OF 5.5' BEHIND THE DITCH LINE ON OPEN DITCH STREETS.

- PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECASTED WEATHER
- 3. VDOT SHALL HAVE APPROVED ALL BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (VISUAL, PROOF ROLL, COMPACTION OR ANY ADDITIONAL AS DETERMINED BY VDOT INSPECTOR) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT VOOT, IN WRITING, FOR INSPECTION OF THE BASE COURSE(S) 48 HOURS TO APPLICATION OF THE SURFACE COURSE(S 24. AN ACTUAL COPY OF THE COMPLETE CBR REPORT IS TO BE SUBMITTED TO VOOT IN CONJUNCTION WITH FINAL PAVEMENT DESIGNS. ALI

PAVEMENT DESIGN RECOMMENDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE PAVEMENT DESIGN GUIDE

- 25. A LICENSED GEOTECHNICAL ENGINEER SHALL ASCERTAIN CAUSE AND CERTIFY RECOMMENDED METHOD OF REPAIR FOR ALL PAVEMENT STRUCTURAL 26. ALL VEGETATION AND ORGANIC MATERIAL IS TO BE REMOVED FROM THE RIGHT OF WAY LIMITS PRIOR TO CONDITIONING OF THE
- 7. DRY GUTTER IS NOT ALLOWED IN THE VDOT RIGHT OR WAY. 28. THE DEVELOPER WILL BE RESPONSIBLE FOR THE DESIGN COSTS OF ANY TRAFFIC SIGNAL INSTALLATION AND/OR MODIFICATION UNDER AN ACCOUNT RECEIVABLE WITH VDOT. 29. THE NECESSITY AND LOCATIONS FOR ADDITIONAL VDOT STANDARD UNDERDRAINS TO BE DETERMINED AT TIME OF SUBGRADE
- APPROVAL OF A DETAILED CONSTRUCTION SEQUENCING/MAINTENANCE OF TRAFFIC NARRATIVE FOR THE WORK ZONE IS A PREREQUISITE FOR ISSUANCE OF A LAND USE PERMIT ALLOWING ACCESS TO AND CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT-OF-WAY.
- VDOT SHALL BE PROVIDED DOCUMENTATION BY A LICENSED GEOTECHNICAL ENGINEER, CERTIFYING THAT ALL IN-PLACE PAVEMENTS MEET OR EXCEED THE APPROVED PAVEMENT DESIGN THICKNESS PRIOR TO STATE ACCEPTANCE. THE CERTIFYING DOCUMENTATION SHALL CONFORM
- . THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE CORNER IS REQUIRED ON ALL DENUDED AREAS THAT ARE NOT TO BE FINE 3. NO STRUCTURE SHALL BE CONSTRUCTED ON STATE MAINTAINED RIGHT OF WAY UNLESS SAID STRUCTURES ARE SHOWN ON ROAD
- CONSTRUCTION PLANS APPROVED BY VDOT OR COVERED BY A VDOT LAND USE PERMIT (OR BY A LETTER OF INTENT FROM THE RESIDENT ENGINEER TO ISSUE SAID PERMIT AT THE TIME OF STATE ACCEPTANCE. 1. THE DEVELOPER IS RESPONSIBLE FOR CONTACTING THE RICHMOND DISTRICT TRAFFIC ENGINEERING SECTION AT 804-524-6000 FOR GUARDRAIL LOCATION AND PLACEMENT REQUIREMENTS. 5. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO UNDERTAKING ANY ROADWAY CONSTRUCTION ACTIVITIES. DEVELOPER OR DESIGNEE WILL CONTACT PETERSBURG RESIDENCY, IN WRITING, FIVE WORKING DAYS IN ADVANCE OF ANTICIPATED CONSTRUCTION START TO ESTABLISH
- DATE, TIME AND LOCATION FOR PRE-CONSTRUCTION MEETING. THE PRIMARY FUNCTION OF THE MEETING WILL BE TO IDENTIFY GEOTECHNICAL PARAMETERS OF PROPOSED CONSTRUCTION ACTIVITIES. 36. EXISTING PAVEMENT MARKINGS WITHIN THE STATE RIGHT OF WAY ARE TO BE ERADICATED (ALL ERADICATION SCARS SHALL BE OVERLAID WITH SURFACE MIX OR SLURRY SEAL #4).
- 7. A GEOTECH REPORT SHALL VERIFY/APPROVE STONE DEPTHS IN ACCORDANCE WITH VDOT APPROVED PAVEMENT DESIGNS, PRIOR TO ASPHALT PLACEMENT.
- 38. ALL CONSTRUCTION DEBRIS, MATERIALS, DUMPSTERS, ETC. SHALL BE LOCATED OUTSIDE THE ROADWAY PRISM PRIOR TO STATE ACCEPTANCE OF THE ROADS AND SHALL BE MAINTAINED OUTSIDE THE ROADWAY PRISM WITHIN EXISTING STATE ROUTES. 9. ANY LANDSCAPING, IDENTIFICATION SIGNS, LIGHTING, ETC. THAT MAY BE INDICATED WITHIN THE CONSTRUCTION PLANS SHALL BE FOR INFORMATION PURPOSES ONLY. NON-STANDARD ITEMS MUST BE APPROVED BY SEPARATE SUBMITTAL THROUGH THE PERMITTING

DRAWN BY

DESIGNED BY K.HALPAUS CHECKED BY

D.JOHNSON SCALE

PHONE: (804) 541-6602 FAX: (804) 751-0798 11A(01)00-010-A GPIN: UTILITIES: WATER - COUNTY

ENGINEER: TIMMONS GROUP

P.O. BOX 1867

YORKTOWN, VA 23692

c/o DERRICK JOHNSON

4260 CROSSINGS BLVD, STE

PRINCE GEORGE, VA 23875

PHONE: (757) 592-8271

FAX: (757) 898-4324

APPROXIMATE MATERIAL QUANTITIES

1,725 LF

535 LF

1 EA.

GENERAL NOTES

SANITARY SEWER

4" HDPE FORCE MAIN

4" CL. 52 D.I. FORCE MAIN

4" BALL CENTRIC VALVE

AIR RELEASE VALVE

4"x45" BEND

COUNTY APPROVALS

DATE RECEIVED

DEVELOPMENT PLAN APPROVAL PRINCE GEORGE COUNTY, VA POLICE DEPARTMENT:____

SHEET INDEX

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JOB NO. SHEET NO.