I:\2014\2014169\0 Civil\0-Phase 2\2014169c-2.dwg, ARCH FULL BLEED D (36.00 X 24.00 INCHES), SCHEME PM.STB, DWG TO PDF.PC3, MICHAEL LETSON, 01.11.2018 2:20:08 PM

CITY OF HAMPTON SITE PLAN STANDARD NOTES

1. ALL WORK ON CITY RIGHT-OF-WAY WILL REQUIRE A SEPARATE PERMIT FROM THE COMMUNITY DEVELOPMENT DEPARTMENT – DEVELOPMENT SERVICES CENTER. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY AND IMPROVEMENTS THAT ARE TO BE PUBLIC OR PRIVATE INFRASTRUCTURE SHALL CONFORM TO CITY OF HAMPTON SPECIFICATION AS SET FORTH IN THE PUBLIC WORKS DESIGN & CONSTRUCTION STANDARDS AND THE DEPARTMENT OF PUBLIC WORKS UTILITY POLICY IN EFFECT AT THE TIME OF PLAN APPROVAL.
2. PER THE CITY OF HAMPTON UTILITY POLICY WORK WILL BE PERFORMED ON RESTRICTED STREETS BETWEEN THE HOURS OF 8:30AM – 4:00PM AND 6:00PM – 6:00AM. LANE CLOSURES WILL BE RESTRICTED TO ONE LAND AND TWO-WAY TRAFFIC WILL BE MAINTAINED AT ALL TIMES. SEE THE CITY OF HAMPTON UTILITY POLICY FOR THE LIST OF RESTRICTED STREETS.
3. PRIVATE SIGN STRUCTURES DEPICTED ON THIS PLAN ARE NOT APPROVED AS TO DESIGN OR LOCATION. ALL PROPOSED PRIVATE SIGNS AND THEIR LOCATIONS ARE SUBJECT TO A PERMITTING AND INSPECTIONS PROCESS ADMINISTERED BY THE CITY OF HAMPTON COMMUNITY DEVELOPMENT DEPARTMENT. FOR MORE INFORMATION CALL (757) 728-2444.
4. A LAND DISTURBING PERMIT MUST BE ISSUED BEFORE CONSTRUCTION MAY BEGIN. CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT – DEVELOPMENT SERVICES CENTER TO OBTAIN THIS PERMIT. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT. INSPECTIONS SHALL BE COORDINATED THROUGH THE CITY OF HAMPTON DEPARTMENT OF PUBLIC WORKS. FOR INFORMATION OR TO SCHEDULE AN INSPECTION CALL (757) 727-8311.
5. A RESPONSIBLE LAND DISTURBER IS REQUIRED TO OBTAIN LAND DISTURBING PERMITS.
6. A VSMP PERMIT SHALL BE OBTAINED WHEN LAND DISTURBED IS GREATER THAN 2500 SQUARE FEET IF THE PROJECT IS LOCATED IN THE CHESAPEAKE BAY PRESERVATION DISTRICT (CBPD) OR 1 ACRES OUTSIDE OF CBPD.
7. PRIOR TO THE FINAL EROSION AND SEDIMENT CONTROL INSPECTION, THE DEVELOPER SHALL PROVIDE A CERTIFIED AS-BUILT FOR THE PROPOSED BMP.
8. ALL UNDERGROUND PIPE SYSTEMS (I.E., STORM, SANITARY, WATER DISTRIBUTION) ON PRIVATE PROPERTY, OUTSIDE OF UTILITY EASEMENTS, SHALL BE INSTALLED IN CONFORMANCE WITH THE INTERNATIONAL PLUMBING CODE, AS AMENDED.
9. ALL PUBLIC SANITARY SEWER FACILITIES SHOWN ON THIS PLAN ARE DESIGNED IN ACCORDANCE WITH THE REGIONAL DESIGN GUIDELINES.
10. SITE LIGHTING SHALL BE A MINIMUM OF $\frac{1}{2}$ FOOT-CANDLE POWER, MEASURED AT GRADE. ANY SITE LIGHTING STRUCTURE IN EXCESS OF FOURTEEN FEET (14') IN HEIGHT SHALL BE BUILT UPON AN ENGINEERED FOUNDATION SYSTEM IN ACCORDANCE WITH A VALID CITY OF HAMPTON BUILDING PERMIT.
11. THIS SITE MAY BE SUBJECT TO THE VIRGINIA OVERHEAD HIGH-VOLTAGE LINE SAFETY ACT. CONTRACTORS MUST CALL THE UTILITY TO MAKE SAFETY ARRANGEMENTS (DOMINION'S NUMBER IS 1-888-667-3000) BEFORE WORKING WITHIN THE 10-FOOT SAFETY ZONE. NO WORK CAN BE STARTED UNTIL APPROPRIATE SAFETY MEASURES ARE COMPLETED.
12. WATER SERVICE AND SEWER LATERALS MUST HAVE A MINIMUM SEPARATION OF TEN FEET (10'). SANITARY SEWER CLEANOUTS MUST BE LOCATED OUTSIDE OF THE DRIVEWAY APRONS AND SIDEWALK. ANY CLEANOUTS FOUND IN SUCH LOCATIONS SHALL BE RELOCATED BY THE DEVELOPER PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY. METER BOXES CANNOT BE LOCATED IN DRIVEWAYS APRONS OR SIDEWALKS.
13. GREEN AREAS SHALL CONSIST OF EARTH CAPABLE OF SUSTAINING PLANT MATERIAL AND PROVIDING NATURAL PERCOLATION OF WATER. GREEN AREAS SHALL NOT BE USED TO STORE MATERIALS, PRODUCTS, OR EQUIPMENT.
14. ALL REQUIRED LANDSCAPE ELEMENTS (EXISTING TO BE RETAINED AND/OR PROPOSED), AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN SHALL BE PROVIDED BY THE DEVELOPER AND ACCEPTED BY THE CITY OF HAMPTON'S LANDSCAPE SERVICES COORDINATOR OR BONDED FOR INSTALLATION BY THE DEVELOPER PRIOR TO CITY ISSUANCE OF ANY BUILDING OCCUPANCY CERTIFICATE. FOR MORE INFORMATION CONTACT (757) 728-2444 OR (757) 727-6075 TO SCHEDULE A LANDSCAPING INSTALLATION INSPECTION.

SITE PLAN STANDARD NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF HAMPTON REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. SITE BOUNDARY, TOPOGRAPHY, UTILITY, AND ROAD INFORMATION TAKEN FROM A SURVEY BY MICHAEL SURVEYING AND MAPPING, DATED 3-2-15. NOTED UTILITIES ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS NECESSARY.
3. PER THE SURVEY PROVIDED BY MICHAEL SURVEYING AND MAPPING, P.C. DATED 3/7/2016. THE HORIZONTAL COORDINATE INFORMATION IS BASED ON CITY OF HAMPTON GEODETIC CONTROL MONUMENTS 542, 532, 537 & 553, WHICH REFERENCES THE VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD 1983)(1986). ELEVATIONS SHOWN ARE BASED ON MONUMENT 534, NAVD88 DATUM. UNITS ARE U.S. SURVEY FEET. PROJECT BENCHMARK AS SHOWN ON SHEET C-003.
   SURVEY CONTROL WAS ESTABLISHED BY GPS SITE CALIBRATION:
   HORIZONTAL RESIDUAL: 0.07'
   MAX ELEVATION RESIDUAL: 0.022'
4. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
5. BUILDING DIMENSIONS SHOWN ON THIS PLAN ARE "LEASE" DIMENSIONS; FOR ACTUAL DIMENSIONS, SEE ARCHITECTURAL PLANS. A PORTION OF THIS TRACT OF LAND DOES NOT LIE WITHIN THE 100-YEAR INTERMEDIATE REGIONAL FLOOD ZONE AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON COMMUNITY PANEL NUMBER 5155270017H, DATED MAY 16, 2016. PROPERTY IS ZONED C-2 (LIMITED COMMERCIAL).
6. TOTAL LAND AREA IS 37.80 ACRES ACRES.
7. ALL CONSTRUCTION MUST CONFORM TO CITY OF HAMPTON STANDARDS AND SPECIFICATIONS, WHETHER OR NOT REVIEW COMMENTS WERE MADE. NOTIFY CITY OF HAMPTON INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
8. A WRITTEN BIWEEKLY REPORT SHALL BE SUBMITTED TO THE LAND DEVELOPMENT DIVISION FROM THE COMMENCEMENT TO THE COMPLETION OF GRADING AND CONSTRUCTION. THIS REPORT SHALL BE THE RESPONSIBILITY OF THE OWNER OR DEVELOPER AND SHALL BE PREPARED BY --------. THE REPORT SHALL RECORD THE PROGRESS OF THE WORK AND THE EFFECTIVENESS OF THE CONTROL DEVICES.
9. UNDISTURBED BUFFERS SHALL BE REPLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED AT APPROVED UTILITY CROSSINGS. RE-PLANTINGS ARE SUBJECT TO CITY ARBORIST APPROVAL.
10. OFF STREET PARKING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. SIGNING AND STRIPING TO BE PROVIDED BY THE DEVELOPER ACCORDING TO CITY OF HAMPTON.
11. ALL WORK PREFORMED WITHIN THE RIGHT-OF-WAY MUST CONFORM TO CITY OF HAMPTON STANDARDS. FEATHER TOPPING OF ALL PROPOSED ROAD WIDENING OUT TO CENTERLINE OF ROADWAY. PRIOR TO THE ACCEPTANCE AND APPROVAL OF ANY ASPHALTIC CONCRETE BINDING AND/OR TOPPING WHICH IS INSTALLED FOR THE PURPOSE OF CITY OF HAMPTON MAINTENANCE, A REPRESENTATIVE OF THIS DEPARTMENT MAY REQUIRE ONE OR ALL OF THE FOLLOWING TESTS: 1) CORING 2) EXTRACTION 3) COMPACTION. THE FREQUENCY AND LOCATION OF THESE TESTS WILL BE LEFT TO THE DISCRETION OF THE INSPECTOR.
12. THIS PROPERTY IS ZONED C-2 (LIMITED COMMERCIAL).

DEMOLITION PLAN STANDARD NOTES

1. THIS SHEET FOR DEMOLITION PURPOSES ONLY.
2. ALL NECESSARY PERMITS FOR DEMOLITION SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLITION WORK. ANY OFF-SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION.
4. NO DEMOLITION MATERIALS SHALL BE DISPOSED OF ON-SITE. ALL DEBRIS SHALL BE HAULED OFF-SITE TO A DISPOSAL AREA APPROVED BY THE STATE OF VIRGINIA FOR THE HANDLING OF DEMOLITION DEBRIS.
5. ALL STRUCTURES NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.
6. CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE IN PLACE PRIOR TO DEMOLITION OPERATIONS.
7. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
8. UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. OWNER & ENGINEER ARE NOT RESPONSIBLE FOR UTILITY LOCATIONS. CONTRACTOR SHALL UTILITIES PROTECTION CENTER @ 1-800-552-7001 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE UTILITIES LOCATED.
9. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS.

GRADING PLAN STANDARD NOTES

1. ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY THE CITY OF HAMPTON INSPECTOR.
2. DISTURBED AREAS LEFT IDLE FOR SEVEN (7) DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
3. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. ON SLOPES THAT ARE GREATER THAN 2:1, MULCH, IF USED, WILL BE SECURED.
4. CITY OF HAMPTON LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON THE SITE AT ALL TIMES DURING CONSTRUCTION, AND IN PLAIN VIEW FROM ROAD OR STREET.
5. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR MUST CALL FOR AN INSPECTION TO OBTAIN A PERMIT TO GRADE.
6. EROSION AND SEDIMENT CONTROL DEVICES MST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MAY BE NECESSARY AS THE PROJECT PROGRESSES.
7. THE GEOTECHNICAL REPORT WAS PREPARED BY ENGINEERING & TESTING SERVICES, INC. ENTITLED GEOTECHNICAL ENGINEERING SERVICES REPORT PROPOSED RIVERDALE PLAZA DEVELOPMENT., ETS REPORT NO: ETS-15E106-1, DATED MARCH 3, 2015. THIS REPORT CAN BE PROVIDED UPON REQUEST. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUCTING ANY AND ALL INVESTIGATIONS TO DETERMINE SITE CONDITIONS. THE FOLLOWING NOTES AREA A BRIEF OUTLINE OF THAT INFORMATION (IF THERE IS A DISCREPANCY THE GEOTECHNICAL REPORT GOVERNS):
   - 7.1. GROUNDWATER CONTROL: THE GEOTECH REPORT INDICATES THE FOLLOWING: IT IS EXPECTED THAT DEWATERING WILL BE REQUIRED FOR EXCAVATIONS, WHICH EXTEND BELOW 4 TO 8 FEET FROM EXISTING GRADES. DEWATERING FROM 4 TO 8 FEET COULD PROBABLY BE ACCOMPLISHED BY PUMPING FROM SUMPS. DEWATERING AT DEPTHS BELOW THE GROUNDWATER TABLE FROM EXISTING GRADES MAY REQUIRE WELL POINTING.
   - 7.2. STRUCTURAL FILL PLACEMENT: ALL STRUCTURAL FILL TO BE PLACED WITHIN THE PROPOSED BUILDINGS AND PAVEMENTS AREAS SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ANY MATERIAL TO BE USED FOR BACKFILL OR COMPACTED FILL SHOULD BE TESTED BY THE GEOTECH ENGINEER PRIOR TO PLACEMENT TO DETERMINE IF THEY ARE SUITABLE FOR THE INTENDED USE. STRUCTURAL FILL MATERIALS SHOULD CONSIST OF SAND OR GRAVEL WITH LESS THAN 20% PASSING THE NO. 200 SIEVE AND CLASSIFIED AS SP, SM, SW, GP, AND GW.

     ALL STRUCTURAL FILL MATERIALS SHOULD BE PLACED IN 10-INCH LOOSE LIFTS AND BE COMPACTED TO A DRY DENSITY OF AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). A SOILS TECHNICIAN WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER SHOULD PERFORM FIELD DENSITY TESTS ON EACH LIFT AS NECESSARY TO DETERMINE THAT ADEQUATE COMPACTION IS ACHIEVED.

     BACKFILL MATERIAL IN UTILITY TRENCHES WITHIN THE PROPOSED BUILDINGS AND PAVEMENT AREAS SHOULD CONSIST OF STRUCTURAL FILL (AS DESCRIBED PREVIOUSLY), AND SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF ASTM D698. THIS FILL SHOULD BE PLACED IN 4 TO 6 INCH LOOSE LIFTS WHEN HAND COMPACTION EQUIPMENT IS USED.
8. PAVEMENT;
   - ON VDOT RIGHT-OF-WAY: WORK (MATERIAL & TESTING) SHALL CONFORM TO VDOT STANDARD SPECIFICATIONS.
   - ON CITY/COUNTY RIGHT-OF-WAY: WORK (MATERIAL & TESTING) SHALL CONFORM TO CITY/COUNTY SPECIFICATIONS.
   - ON PRIVATE PROPERTY:
   - MATERIALS SHALL CONFORM TO VDOT STANDARD SPECIFICATIONS.
   - TESTING SHALL CONFORM TO PARAMETERS SET BY THE GEOTECHNICAL ENGINEER.

UTILITY PLAN STANDARD NOTES

1. ALL WATERWORKS DISTRIBUTION CONSTRUCTION TO CONFORM TO APPLICABLE NEWPORT NEWS WATER WORKS STANDARDS AND SPECIFICATIONS. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE HAMPTON ROADS PLANNING DISTRICT COMMISSION REGIONAL CONSTRUCTION STANDARDS AND SPECIFICATIONS (RCS).
2. WATER METER SHALL BE FLUSH WITH FINISHED GRADES.
3. TOPS OF EXISTING MANHOLES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH NEW FINISHED GRADES.
4. CONTRACTOR IS TO COORDINATE INSTALLATION OF GAS LINES WITH VIRGINIA NATURAL GAS. CONTRACTOR SHALL COORDINATE THE TYING IN OF INDIVIDUAL GAS METER TO THE MAIN.
5. REFER TO ARCHITECT'S PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES. IF A CONFLICT IS ENCOUNTERED, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR COORDINATION.
6. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPE LINES.
7. SANITARY SEWER LINE SHALL BE OF DUCTILE IRON PIPE AT ALL LOCATIONS WHERE SANITARY LINE CROSSES ABOVE OR BELOW A STORM SEWER LINE.
8. WATER MAINS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY SANITARY SEWER OR SEWER MANHOLE, MEASURED EDGE TO EDGE OF PIPE. IN LOCATIONS WHERE THE PLANS SHOW WATER MAINS CLOSER THAN 10 FEET FROM A SANITARY SEWER LINE (OR MANHOLE) THE BOTTOM OF THE WATER MAIN SHALL BE 18" ABOVE THE TOP OF SANITARY SEWER. WHERE VERTICAL SEPARATION CANNOT BE MAINTAINED, THE SANITARY SEWERS SHALL BE CONSTRUCTED WITH AWWA APPROVED WATER PIPE IN ACCORDANCE WITH SECTION 200 (OF THE RCS), PRESSURE TESTED IN PLACE IN ACCORDANCE WITH SECTION 801 (OF THE RCS) WITHOUT LEAKING PRIOR TO BACKFILLING, AND THE SEWER MANHOLE SHALL BE OF WATERTIGHT CONSTRUCTION AND TESTED IN PLACE.
9. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SANITARY SEWER PIPE. WHEN CONDITIONS PREVENT AT LEAST 18" OF VERTICAL SEPARATION, SANITARY SEWERS SHALL BE CONSTUCTED OF AWWA APPROVED WATER PIPE IN ACCORDANCE WITH SECTION 200 (OF THE RCS), PRESSURE TESTED IN PLACE IN ACCORDANCE WITH SECTION 801 (OF THE RCS) WITHOUT LEAKAGE PRIOR TO BACKFILLING. WATER MAINS THAT PASS UNDER SANITARY SEWERS SHALL, IN ADDITION, BE PROTECTED BY PROVIDED A VERTICAL SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF THE SANITARY SEWER AND THE TOP OF THE WATER MAIN. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SANITARY SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF THE WATER PIPE WILL BE CENTERED AT THE POINT OF THE CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
10. LINES UNDERGROUND SHALL BE INSTALLED, TESTED AND APPROVED BEFORE BACKFILLING.
11. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
12. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND LOCATION OF UTILITIES EXITING IN THE BUILDING WITH THE ARCHITECTURAL PLANS
13. ALL WATER PIPE, FITTINGS, ACCESSORIES AND THE INSTALLATION THEREOF SHALL COMPLY WITH THE MOST RECENTLY APPROVED EDITION OF NEWPORT NEWS WATERWORKS DISTRIBUTION STANDARDS FOR MATERIALS & CONSTRUCTION AND LATEST STANDARDS AND SPECIFICATIONS OF THE AMERICAN WATER WORKS ASSOCIATION, (AWWA) AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS.

UTILITY MATERIAL NOTES

1. SANITARY SEWER MATERIAL SHALL BE AS SPECIFIED IN THE REGIONAL CONSTRUCTION STANDARDS (RCS), SUPPORTED BY THE HRPDC, SECTION 200
2. GRAVITY SEWER (PER RCS): GRAVITY SEWER INSTALLATION ON SITE AND WITHIN THE RIGHT OF WAY SHALL CONFORM TO THE FOLLOWING STANDARDS.
   - 2.1. PVC (SIZE 6-INCH – 15-INCH) DIAMETER SHALL CONFORM TO ASTM D3034 SDR 26.
     - 2.1.1. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM APPROVED PVC COMPOUND CONFORMING TO ASTM D1784.
     - 2.1.2. JOINTS SHALL MEET ALL REQUIREMENTS OF ASTM D3034, SECTION 6 AND SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF ASTM D3212. RUBBER GASKETS SHALL MEET PHYSICAL REQUIREMENTS SPECIFIED IN ASTM F477 AND ASTM D1869.
   - 2.2. DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51, MINIMUM PRESSURE CLASS 350 PSI. PIPE SHALL BE INSTALLED WITH PUSH-ON JOINTS, EXCEPT WHERE MECHANICAL OR RESTRAINED JOINT OR FLANGED PIPE IS SHOWN ON THE DRAWINGS.
     - 2.2.1. JOINTS AND GASKETS SHALL CONFORM TO ANSI/AWWA C111/A21.11 OR ANSI/AWWA C115/A21.15 AS APPLICABLE. THE MINIMUM ACCEPTABLE PRESSURE RATING FOR ALL JOINTS IS 250 PSI. ALL FLANGES AND GLANDS FOR PIPES SHALL BE MADE OF DUCTILE IRON.
     - 2.2.2. FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53, AND SHALL BE DUCTILE IRON. COMPACT FITTINGS ARE REQUIRED AND SHALL HAVE A MINIMUM ACCEPTABLE PRESSURE RATING OF 350 PSI.
     - 2.2.3. COATINGS SHALL BE PROVIDED ON THE EXTERIOR OF ALL PIPE, JOINTS AND FITTINGS AS REQUIRED BY ANSI/AWWA C110/A21.10, C111/A21.11, C115/A21.15, C151/A21.51, OR C153/A21.53 AS APPLICABLE. ALL PIPES, JOINTS AND FITTINGS SHALL BE EXAMINED AFTER LAYING TO DETERMINE IF THE COATING WAS DAMAGED DURING INSTALLATION. ANY DAMAGED AREAS SHALL BE COATED WITH A MINIMUM OF 2 MIL BITUMINOUS COATING.
4. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION. PRECAST MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C478. MANHOLE JOINTS MAY BE SEALED WITH "O"-RING RUBBER GASKETS, PROFILE GASKET, OR BUTYL RESIN SEALANTS OR EQUAL. GASKETS AND SEALANTS FOR SECTION JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C443 OR ASTM C990. JOINTS SHALL BE WATERTIGHT.
5. PIPE CONNECTIONS SHALL BE FLEXIBLE RUBBER PIPE-TO-MANHOLE CONNECTIONS OF THE LOCKED-IN FACTORY ASSEMBLED RUBBER RING TYPE UTILIZING A STAINLESS STEEL BAND AS MANUFACTURED BY NPC, INC. (KOR-N-SEAL OR PRESS-SEAL GASKET CROP. (PSX OR PRESS BOOT) GASKET ADJUSTABLE RING. THE RESILIENT FLEXIBLE MANHOLE CONNECTOR SHALL CONFORM TO ASTM C443 AND ASTM C923 AND THE STAINLESS STEEL BAND SHALL BE TOTALLY NON-MAGNETIC SERIES 304 STAINLESS.
6. 6" OR 8" WATER LINE SHALL BE DUCTILE IRON PIPE AS SPECIFIED BY THE NEWPORT NEWS WATERWORKS DISTRIBUTION STANDARDS FOR MATERIALS AND CONSTRUCTION:
   - 6.1. DUCTILE IRON PIPE CLASS 52.
   - 6.2. DUCTILE IRON PIPE SHALL BE PUSH-ON TYPE JOINTS, EXCEPT WHERE MECHANICAL JOINT OR FLANGED PIPE IS INDICATED ON THE PLANS. DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51. FLANGED DUCTILE IRON PIPE SHALL COMPLY WITH THE REQUIREMENTS OF AWWA C115.
   - 6.3. ALL DUCTILE IRON PIPE AND FITTINGS ARE TO BE DOUBLE THICKNESS CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA C104/A21.4.
7. WATER LINES SMALLER THAN 6" SHALL BE AS SPECIFIED BY NEWPORT NEWS WATERWORKS DISTRIBUTION STANDARDS FOR MATERIALS AND CONSTRUCTION. TUBING SHALL BE SEAMLESS COPPER TYPE "K" SOFT ANNEALED IN COILS AND SUITABLE FOR POTABLE WATER SERVICE, IN ACCORDANCE WITH ASTM B-88-88A AND AWWA C-800. ALL VALVES, FITTINGS, CORP. STOPS, ETC. SHALL BE AS SPECIFIED BY THE ABOVE.
8. ALL SITE CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
9. ALL STORM SEWER MATERIALS SHALL CONFORM TO THE REGIONAL CONSTRUCTION STANDARDS AND/OR VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
10. THE STORM WATER PIPE WAS DESIGNED ON THE 10-YEAR STORM EVENT USING THE RATIONAL METHOD.
11. REINFORCED CONCRETE PIPE FOR STORM DRAINS AND FLARED END SECTIONS: SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76 FOR REINFORCED CONCRETE CULVERT AND STORM DRAIN PIPE. ALL RCP PIPE SHALL BE CLASS III. THE CONTRACTOR SHALL USE A PREFORMED FLEXIBLE PLASTIC SEALING COMPOUND OF BUTYL MASTIC ROPE SEALER – 1" SIZE, "EZ STICK" AS MANUFACTURED BY CONCRETE PRODUCTS SUPPLY OR AN APPROVED EQUAL FOR SEALING WATER-TIGHT JOINTS.
12. ALL PIPE JOINTS, EXCEPT PVC STORM DRAINAGE PIPE, SHALL BE WRAPPED WITH A NONWOVEN EROSION CONTROL FILTER MATERIAL CENTERED ON THE JOINT, WITH OVERLAP EXTENDING FROM SPRING LINE TO THE OPPOSITE SPRING LINE. THE FILTER MATERIAL FOR CONCRETE PIPE SHALL BE A MINIMUM OF 2' WIDE FOR PIPES WITH A NOMINAL DIAMETER OF 24" OR LESS, LARGER DIAMETERS SHALL HAVE FILTER MATERIAL 4' IN WIDTH. THE FABRIC SHALL BE INSTALLED AND SECURED IN A MANNER THAT PREVENTS WRINKLES AND FOLDS OR DISPLACEMENT DURING BACKFILL OPERATIONS. LIFT HOLES ARE NOT PERMITTED IN STORMWATER PIPES THAT ARE TO BE PLACED IN A PUBLIC EASEMENT OR RIGHT-OF-WAY.
13. SELECT BEDDING STONE SHALL CONSIST OF COARSE AGGREGATE CONFORMING TO THE VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 203, SIZE 57, FOR DRAINAGE CONSTRUCTION AND SIZE 57, SMOOTH RIVER ROCK FOR UTILITY CONSTRUCTION.
14. THE CONTRACTOR MAY USE PRECAST CONCRETE STRUCTURES AT ITS DISCRETION. REINFORCED PRECAST STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DES. C-478 WITH AN ECCENTRIC OR CONCENTRIC CONE ORFLAT SLAB TOPS. JOINTS SHALL BE WATER-TIGHT. PRECAST SECTIONS SHALL BE FABRICATED TO PROVIDE A TONGUE AND GROOVE JOINT SEALED WITH PERFORMED FLEXIBLE PLASTIC SEALING COMPOUND, BUTYL MASTIC ROPE SEALER – 1" SIZE, "EZ STICK" AS MANUFACTURED BY CONCRETE PRODUCTS SUPPLY OR AN APPROVED EQUAL. JOINTS SHALL BE PLASTERED INSIDE AND OUTSIDE OF THE MANHOLE WITH A CEMENT GROUT. MORTAR SHALL CONFORM TO THE FOLLOWING REQUIRMENTS (PORTLAND CEMENT: ASTM C50, TYPE 1. SAND: CLEAR, SHARP, GRADED FROM FINE TO COARSE, ASTM C-144. WATER: CLEAN AND POTABLE. MIXTURE: ONE (1) PART CEMENT, TWO (2) PARTS SAND).
15. CURING MATERIALS: SHALL CONSIST OF WATERPROOF PAPER, POLYETHYLENE SHEETING, LIQUID MEMBRANE SEAL OR WATER IN ACCORDANCE WITH VDOT SECTIONS 220. REINFORCING STEEL: SHALL BE GRADE 40 OR 60 AND CONFORM TO VDOT SECTION 223. PORTLAND CEMENT CONCRETE: SHALL BE CLASS A-3 CONCRETE AND IN ACCORDANCE WITH AASHTO M-85 AND AASHTO M-154 FOR AIR-ENTRAINING ADMIXTURES.
16. STRUCTURE CHART:

PLAN CALL OUT	DETAIL
DI – DROP INLET	CITY OF HAMPTON YARD DRAIN (SEE SHEET C-620/1)
JB – JUNCTION BOX	VDOT JB-1 (SEE SHEET C-620/5, C-621/1, OR C-621/3)

VIRGINIA EROSION/SEDIMENT CONTROL NOTES

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 4VAC50-30, 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 ACTIVITIES, AND ONE WEEK PRIOR TO THE 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 TIMES DURING LAND DISTURBING ACTIVITIES, AND DURING SITE DEVELOPMENT, UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8. DURING DE-WATERING 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.

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AUGUSTA, GA 30909
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3	08.19.16	CITY COMMENTS
4	10.04.16	CITY COMMENTS
6	10.13.16	CITY COMMENTS

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