HOME DEPOT AT ROUTE 29 AND RIO ROAD
1531 RIO ROAD EAST
RIO MAGISTERIAL DISTRICT
CHARLOTTESVILLE, VA 22901
DATE: 07/17/2023

PROJECT CONTACT LIST

OWNER/DEVELOPER

HOME DEPOT U.S.A., INC.
2455 PACES FERRY RD, C-19
ATLANTA, GA 30339
TEL: (678) 814-9177
CONTACT: D. CORBIN ROWE
EMAIL: DAVID_C_ROWE@HOMEDEPOT.COM

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
2035 MAYWILL STREET, SUITE 200
RICHMOND, VA 23230
TEL: (804) 672-4708
CONTACT: DAVID ELLINGTON, P.E.
EMAIL: DAVID.ELLINGTON@KIMLEY-HORN.COM

ARCHITECT

GREENBERGFARROW
92 EAST MAIN STREET, SUITE 410
SOMERVILLE, NJ 08876
TEL: (908) 485-7735
CONTACT: JOHN M. KEREKES, AICP
EMAIL: JKEREKES@.GREENBERGFARROW.COM

SURVEYOR

CIVIL SURVEYORS INC.
CIVIL SURVEYORS INC.
221 QUEEN STREET, P.O. BOX 1828
TAPPAHANNOCK, VA 22560
TEL: (804) 443-3080
EMAIL: IWHITE@CIVSUR.COM

PLANNING/ZONING

PLANNING COMMISSION
401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22902
TEL: (804) 677-0463
CONTACT: COREY CLAYBORNE

STORMWATER

FACILITIES AND ENVIRONMENTAL SERVICES
401 MCINTIRE ROAD 4TH FLOOR
CHARLOTTESVILLE, VA 22902
TEL: (434) 296-5816

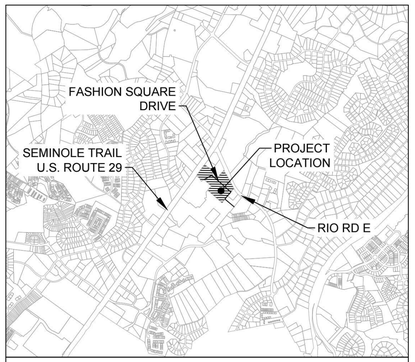
PUBLIC UTILITIES

PUBLIC WORKS
401 MCINTIRE ROAD 4TH FLOOR
CHARLOTTESVILLE, VA 22902
TEL: (434) 296-5816

FIRE MARSHAL

DEPARTMENT OF FIRE RESCUE
460 STAGECOACH ROAD
CHARLOTTESVILLE, VA 22902
TEL: (434) 296-5833
CONTACT: SHAWN MADDOX

VICINITY MAP



VICINITY MAP
SCALE: 1" = 2000'

NORTH

SHEET INDEX

SHEET NUMBER	SHEET TITLE
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CD-101	DEMOLITION PLAN
CE-101	PHASE I EROSION AND SEDIMENT CONTROL PLAN
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CS-101	SITE PLAN
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CU-101	UTILITY PLAN
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CP-101	PLANTING PLAN
CP-501	PLANTING NOTES AND DETAILS

PROJECT DATA

SITE STATISTICS

PARCEL ID	06100-00-00-13200, 13100,13000
STREET ADDRESS	1531 RIO RD E CHARLOTTESVILLE, VA 22901
ZONED	PLANNED DEVELOPMENT SHOPPING CENTER
MAGISTERIAL DISTRICT	RIO
APPLICABLE OVERLAY DISTRICT	AIRPORT IMPACT AREA (AIA), ENTRANCE CORRIDOR (EC), STEP SLOPES MANAGED

ZONING DATA

SPECIAL USE PERMIT	VA197900030
EXISTING USE	COMMERCIAL
PROPOSED USE	COMMERCIAL
BUILDING SIZE	137,747 SF
BUILDING HEIGHT	24' FT ±
TOTAL SITE AREA	13.95 AC
TOTAL DISTURBED AREA	9.46 AC
TOTAL IMPERVIOUS COVER	13.41 AC±
TOTAL IMPERVIOUS COVER WITHIN LOD	8.92 AC ±
OPEN SPACE	0.54 AC ± (5.8% LOD)
STEEP SLOPES	YES
FLOOD ZONE	THIS SITE APPEARS TO LIE IN FLOOD ZONE "X" OF THE FEMA DEFINED FLOOD HAZARD AREA AS SHOWN ON THE FLOOD INSURANCE RATE MAP 51003C0278D EFF. DATE FEBRUARY 04, 2005

UTILITY DATA

WATER	ALBEMARLE COUNTY SERVICE AUTHORITY
SEWER	ALBEMARLE COUNTY SERVICE AUTHORITY
SOURCE OF TOPOGRAPHY	CIVIL SURVEYORS INC.

DATUM HORIZONTAL DATUM: NAD83 (NA2011),VIRGINIA STATE GRID, SOUTH ZONE. ESTABLISHED TROUGH GPS OBSERVATIONS JULY 2022. VERTICAL DATUM: NAVD88, CONTOUR INTERVAL=1'

LATITUDE	38.078673 °N
LONGITUDE	-78.474235 °W
RECEIVING WATER(S)	RIVANNA RIVER-MEADOW CREEK
(NOTE: MEADOW CREEK WATERSED IS NOT A WATER SUPLY WATERSHED)	
VAHU6 CODE	JR14

SETBACKS

FRONT (SEMINOLE TRAIL)	50' MIN
FRONT (RIO RD E)	50' MIN
SIDE	15' MIN
REAR	20' MIN
LANDSCAPE BUFFER	20' MIN

PARKING SCHEDULE

PARKING CALCULATIONS	4.75 /1,000 SF
PARKING PROVIDED	425 STALLS
HANDICAP SPACES PROVIDED	10 STALLS
PARKING REQUIRED	655 STALLS

(NOTE: THE REQUIRED PARKING IS BASED ON THE SHOPPING CENTER USE AND OVERALL FUNCTION OF THE PD-SC ZONING DISTRICT.)

TIME PERIOD	TRIPS ENTERING	TRIPS EXISTING
ALL DAY - WEEKDAY	2121	2121
AM PEAK HOUR - WEEKDAY	191	176
PM PEAK HOUR - WEEKDAY	230	213
PEAK HOUR - SATURDAY	308	295
PEAK HOUR - SUNDAY (LIMITED DATA)	510	471

SITE PLAN REVIEW STATUS		
SUBMIT DATE	INITIALS	REMARKS

APPROVALS	DATE
DEPARTMENT OF COMMUNITY DEVELOPMENT	
PLANNER/ZONING	
ENGINEER	
INSPECTIONS	
ARB	
DEPARTMENT OF FIRE RESCUE	
ALBEMARLE COUNTY SERVICE AUTHORITY	
VIRGINIA DEPARMENT OF TRANSPORTATION	
HEALTH DEPARTMENT	

MISS UTILITY OF VIRGINIA

CALL BEFORE YOU DIG
811

ONLY THE COMPLETE AND APPROVED PAPER COPY OF THE PLAN SET INCLUDING ALL SUBSEQUENT REVISIONS WILL SERVE AS THE OFFICIAL CONSTRUCTION PLANS.

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No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

Kimley»Horn
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PHONE: 804-673-3882
WWW.KIMLEY-HORN.COM

COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

COVER SHEET

HOME DEPOT

VA

ALBEMARLE

SHEET NUMBER
CA-100

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CA-100 COVER SHEET November 17, 2023 - 10:08:36am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CA-100 COVER SHEET.dwg
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CONSTRUCTION STANDARDS

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE DRAWINGS, PROJECT SPECIFICATIONS, WITH ALL CURRENT APPLICABLE CODES, AND, UNLESS OTHERWISE SPECIFIED, WITH THE LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS:
   - A. ALBEMARLE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS
   - B. ACSA GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS
   - C. VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD & BRIDGE SPECIFICATIONS
   - D. VDOT ROAD AND BRIDGE STANDARDS
   - E. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
   - F. VIRGINIA WORK AREA PROTECTION MANUAL.
   - G. VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH)
   - H. VIRGINIA DEPARTMENT OF HEALTH (VDH) SPECIFICATIONS

CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM WITH APPLICABLE STATE (INCLUDING VDOT) AND LOCAL CONSTRUCTION STANDARDS AS IDENTIFIED IN THESE PLANS. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND MAINTAIN COPIES OF THEM ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON-SITE AT ALL TIMES DURING CONSTRUCTION.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
3. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," MOST CURRENT REVISION OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES ASSOCIATED WITH THE PROJECT WORK SCOPE DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" OF VIRGINIA @ 811 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.
6. ANY DAMAGE OCCURRING TO THE EXISTING SITE INFRASTRUCTURE ON THIS OR THE ADJACENT SITE DURING THE CONSTRUCTION OPERATIONS AND/OR MOBILIZATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXISTING DAMAGED ITEMS INCLUDING CONCRETE AND/OR PAVEMENT SECTIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS PRIOR TO PROJECT COMPLETION AT THE EXPENSE OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, DRIVEWAYS, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION INSIDE AND OUTSIDE OF THE LIMITS OF CONSTRUCTION.
8. ANY AND ALL UTILITIES AND/OR OBSTRUCTIONS (POWER POLES, TELEPHONE PEDESTALS, GUY WIRES, WATER METERS, ETC.) THAT ARE REQUIRED TO BE RELOCATED OR ADJUSTED DUE TO CONSTRUCTION SHALL BE DONE SO AT THE OWNERS/DEVELOPERS EXPENSE.
9. SLOPES WITHIN THE LIMITS OF THE HANDICAPPED PARKING AREAS SHALL NOT EXCEED 1.5% IN ANY DIRECTION. CROSSWALKS AND SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% IN DIRECTION OF TRAVEL. SLOPES IN HANDICAP RAMPS SHALL BE BUILT IN CONFORMANCE WITH ILATEST ADA CRITERIA AND LOCAL DESIGN STANDARDS.
10. THE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL THE REMOVED/DEMOLISHED MATERIAL FROM THE PROJECT SITE AND DISPOSE OF SAME IN A LEGAL MANNER.
11. TYING TO EXISTING PAVEMENT: EXISTING PAVEMENT SHALL BE NEATLY SAW CUT TO A STRAIGHT LINE AND ALL PAVING ON THE NEW PAVEMENT SIDE OF THE CUT SHALL BE COMPLETELY REMOVED AND REPLACED WITH SPECIFIED MATERIALS. THE CUT LINE SHALL BE FULL-DEPTH AND COATED WITH A TACK COAT TO FURNISH A BOND BETWEEN THE EXISTING SURFACE COURSE AND THE NEW SURFACE COURSE.
12. TYING TO EXISTING CURB/GUTTER: THE EXISTING PAVEMENT SHALL BE NEATLY SAW CUT AND REMOVED FOR A DISTANCE OF 2'0" FROM FACE OF THE CURB AND 2'0" FROM THE EDGE OF CURB AND GUTTER AND THE SUBGRADE, BASE COURSE, AND PAVING REPLACED WITH NEW PRODUCTS.
13. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO KIMLEY-HORN & ASSOCIATES, INC. AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY KIMLEY-HORN & ASSOCIATES, INC. IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE INHIBITED BY ANY OTHER SITE FEATURES.
14. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
15. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
16. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.
17. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
18. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF PIPE.
19. ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
20. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE LOCATED OUT OF THE PEDESTRIAN AND AUTOMOBILE ROUTES AND SHALL BE LOCATED BETWEEN THREE TO FIVE FEET BEHIND THE NEAREST BACK OF CURB. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO PUBLIC SAFETY.

DEMOLITION / LAND DISTURBANCE NOTES

1. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
   - A. ENSURING THAT COPIES OF ALL APPLICABLE PERMITS AND APPROVALS ARE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
   - B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL AND/OR TREE PROTECTION MEASURES PRIOR TO SITE DISTURBANCE.
   - C. LOCATING (VERTICALLY AND HORIZONTALLY) ALL UTILITIES AND SERVICES, INCLUDING, BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
   - D. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
   - E. COORDINATION WITH UTILITY COMPANIES & ADJACENT LANDOWNERS/BUSINESSES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REOUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
2. NEITHER KIMLEY-HORN & ASSOCIATES, INC. NOR THE OWNER IS RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLLOWING ALL OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
3. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES.
4. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
5. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS - OF - WAY.
6. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
7. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
8. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
9. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
10. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.

DRAINAGE / STORMWATER NOTES

1. ALL STORM SEWER PIPES, MANHOLES, AND CURB INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT THE LAST STAGES OF CONSTRUCTION.
2. STORM DRAIN PIPE AND FLARED END SECTIONS ARE TO BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 302 OF VDOT ROAD AND BRIDGE SPECIFICATIONS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION C-76 FOR REINFORCED CONCRETE CULVERT AND STORM DRAIN PIPE. ALL PIPE FOR STORM DRAINS SHALL BE REINFORCED CONCRETE CLASS III UNLESS INDICATED OTHERWISE ON THE PLANS. 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. VERTICAL CLEARANCE OF 12" BETWEEN STORM AND OTHER UTILITIES IS REQUIRED UNLESS OTHERWISE NOTED.
3. ALL EXISTING STORM SEWER PIPES, DROP INLETS, AND CURB INLETS BEING UTILIZED BY A PART OF THE DRAINAGE SYSTEM SHALL BE CLEANED OF ERODED MATERIAL AT ALL STAGES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER. THE COST INCIDENTAL TO THIS IS TO BE INCLUDED IN THE CONTRACT PRICE FOR THE OTHER DRAINAGE ITEMS.
4. STORM SEWER PIPES AS SHOWN ON THE PLANS ARE MEASURED FROM THE CENTERLINE OF EACH STRUCTURE AND INVERT ELEVATIONS ARE ESTABLISHED BASED ON THIS CENTER LINE DISTANCE. LENGTH CALL OUTS FOR PIPES WITH FLARED END SECTIONS WILL BE MEASURED TO THE JOINT. CONTRACTOR SHALL LOCATE ALL END SECTIONS TO MATCH THE BANK SLOPE AND THE PIPE SLOPE SHALL BE ADJUSTED AS NECESSARY.
5. BOOT CONNECTIONS SHALL BE PROVIDED FOR ALL PLASTIC PIPES THAT TIE INTO A CONCRETE STRUCTURE.
6. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START. SEE EXISTING CONDITIONS SHEET FOR UTILITY CONTACT INFORMATION.
7. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVED BY APPLICABLE AUTHORITY.
8. ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED AND LOCATED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET FLOW OVERLAND.
10. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL V.S.M.P. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
11. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
12. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
13. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.

UTILITY NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES OR UTILITIES BY OTHERS AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE.
4. THE CONTRACTOR SHALL PERFORM WHATEVER TEST EXCAVATION OR OTHER INVESTIGATION IS NECESSARY TO VERIFY TIE-IN INVERTS, LOCATIONS AND CLEARANCES, AND SHALL REPORT IMMEDIATELY ANY DISCREPANCIES TO KIMLEY- HORN AND ASSOCIATES, INC. AT (804) 673-3882.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
6. MAINTAIN A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN STORM, SANITARY, AND ALL UTILITIES (UNLESS OTHERWISE NOTED).
7. CROSS CONNECTION CONTROL AND BACK FLOW PREVENTION SHALL BE IN ACCORDANCE WITH THE UNIFORM STATEWIDE BUILDING CODE.
8. CONTRACTOR SHALL COORDINATE WITH THE FIRE MARSHAL BEFORE INSTALLING FIRE LANE SIGNS AND MARKINGS.
9. ALL CLEANOUTS WITHIN VEHICULAR AREAS SHALL BE TRAFFIC BEARING.
10. CONTRACTOR SHALL SAW CUT, REMOVE, AND REPLACE ASPHALT PAVEMENT AS NECESSARY TO INSTALL UNDERGROUND ELECTRIC, TELEPHONE, SANITARY SEWER, WATER, AND COMMUNICATION CONDUITS.
11. UNDERGROUND UTILITIES INSTALLED ON PRIVATE PROPERTY OR IN PRIVATE UTILITY EASEMENTS AND BUILDING RELATED STORM DRAINS SHALL BE DESIGNED AND INSTALLED PER THE CURRENT EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE.
12. PROPOSED CROSSINGS WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. THE RIM ELEVATIONS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
14. ALL WATER, SEWER AND FIRE LINES REQUIRE NEW INSPECTION AND TESTING PROCEDURES. THE ACSA PERFORMS ANY TESTING AND INSPECTIONS OF THE PUBLIC SEWER AND WATER MAIN(S). THE ALBEMARLE COUNTY BUILDING INSPECTIONS DEPARTMENT (ACBID) DOES A VISUAL INSPECTION AND WITNESSES THE TESTING OF THE BUILDING DRAIN, WATER SERVICE PIPE AND THE SPRINKLER LEAD-IN CONNECTION. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO RETAIN A SPECIAL INSPECTOR AS OUTLINED IN THE UPDATED ALBEMARLE COUNTY POLICY FOR SITE UTILITIES TO PERFORM THE VISUAL INSPECTION AND TESTING OF ALL UTILITIES NOT COVERED BY THE ACSA OR ACBID. THIS INCLUDES BUILDING SEWERS, WATER AND FIRE LINE BRANCHES BETWEEN THE MAIN AND THE METER(S)/BUILDING(S). THE SPECIAL INSPECTOR'S REPORT MUST BE SUBMITTED AND APPROVED BY THE ALBEMARLE COUNTY ENGINEERING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.

VDOT GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE *VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE SPECIFICATIONS, ROAD AND BRIDGE STANDARDS AND VIRGINIA WORK AREA PROTECTION MANUAL*.
2. LAND USE PERMITS (LUP) SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT-OF-WAY (INCLUDING ACCESS).
3. VDOT REQUIRES NOTIFICATION 48 HOURS PRIOR TO COMMENCING WITH INITIAL CONSTRUCTION ACTIVITIES. PLEASE CONTACT THE APPROPRIATE PERMIT OFFICE IN WHICH YOUR PROPOSED ACTIVITIES ARE TO OCCUR.
4. APPROVAL OF A DETAILED CONSTRUCTION SEQUENCING AND MAINTENANCE OF TRAFFIC PLAN FOR THE WORK ZONE IS A PREREQUISITE FOR ISSUANCE OF A LAND USE PERMIT. THE PLAN SHALL ACCOMMODATE ACCESS TO AND CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT-OF-WAY.
5. WORK ZONES - THE DEPARTMENT SHALL BE NOTIFIED *48 HOURS* IN ADVANCE OF ANY ANTICIPATED LANE/SHOULDER CLOSURES ON ROADWAYS CLASSIFIED AS COLLECTOR ROADS OR HIGHER. YOU DO NOT NEED TO CALL TO ACTIVATE YOUR WORK ZONE UNTIL YOU PLACE THE FIRST CONE OR SIGN IN YOUR WORK ZONE. REQUESTS FOR THE IMPLEMENTATION OF TEMPORARY LANE AND SHOULDER CLOSURES MUST BE ENTERED INTO THE VDOT LANE CLOSURE ADVISORY MANAGEMENT SYSTEM (LCAMS) AND VATRAFFIC A MINIMUM OF ONE WEEK PRIOR TO THE PLANNED EXECUTION OF LANE OR SHOULDER CLOSURE ACTIVITIES ON STATE MAINTAINED ROADWAYS. THE PERMITTEE OR THEIR CONTRACTOR MAY ENTER THEIR REQUESTS DIRECTLY OR PROVIDE WRITTEN REQUESTS TO THE CENTRAL REGION TRAFFIC OPERATIONS CENTER (TOC), 804-796-4520, APRIL DABNEY, LANE CLOSURE COORDINATOR, OR MAILTO: APRIL.DABNEY@VDOT.VIRGINIA.GOV WITH “LANE CLOSURE REQUEST” IN THE SUBJECT LINE.
6. PERMITTEE MUST NOTIFY VIRGINIA DEPARTMENT OF TRANSPORTATION TOC WHEN THERE IS A CRASH IN A WORK ZONE AT 804-796-4520.
7. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE DEVELOPER'S ENGINEERING CONSULTANT AND VERIFY THE APPROVAL OF THE PLANS BY ALL APPLICABLE FEDERAL, STATE AND LOCAL AGENCIES.
8. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE DEVELOPER'S ENGINEERING CONSULTANT IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL “MISS UTILITY” AT 811. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN EXISTING AND PROPOSED RIGHT OF WAY REQUIRED BY THE DEVELOPMENT.
9. THE PERMITTEE OR THEIR AGENT MUST CONTACT THE VDOT CUSTOMER SERVICE CENTER AT 1-800-367-7623 A MINIMUM OF 48 HOURS PRIOR TO INITIATING ANY PLANNED EXCAVATION WITHIN 1,000 FEET OF A SIGNALIZED INTERSECTION AND/OR NEAR VDOT ITS INFRASTRUCTURE. EXCAVATION MAY PROCEED ONLY AFTER THE VDOT REGIONAL UTILITY LOCATION AGENT HAS NOTIFIED THE PERMITTEE THAT THE UTILITY MARKING HAS BEEN COMPLETED. ADDITIONAL INFORMATION CAN BE FOUND AT: HTTP://WWW.VIRGINIADOT.ORG/BUSINESS/RESOURCES/IIM/TE-383_REQUEST_FOR_MARKING_VDOT_UTILITY_LOCATION.PDF “MISS UTILITY” DOES NOT LOCATE VDOT UTILITIES.
10. 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.
11. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND FIELD CHANGES FROM THE APPROVED PLANS SHALL BE RE-SUBMITTED TO VDOT FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE PROPOSED REVISION ALONG WITH DRAINAGE CALCULATIONS WHEN APPROPRIATE.
12. VDOT APPROVAL OF CONSTRUCTION PLANS DOES NOT PRECLUDE THE RIGHT TO REQUIRE ADDITIONAL FACILITIES AS DEEMED NECESSARY FOR ACCEPTANCE OF THE ROADS INTO THE VDOT SECONDARY ROAD SYSTEM BASED ON FIELD CONDITIONS OR UNAPPROVED PLAN CHANGES.
13. VDOT APPROVAL OF THESE PLANS WILL EXPIRE FIVE (5) YEARS FROM THE DATE OF APPROVAL FOR SITE PLANS AND SUBDIVISION PLANS IF CONSTRUCTION HAS NOT STARTED.
14. PRELIMINARY DESIGN OF THE PAVEMENT STRUCTURE FOR ALL SUBDIVISION STREETS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF *THE PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA*. THE COMPLETED DESIGN 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 I OF THE PAVEMENT DESIGN GUIDE OR AS REPORTED IN A GEOTECHNICAL ANALYSIS OF THE ON-SITE SOILS.
15. A COPY OF THE COMPLETE CBR REPORT SHALL BE SUBMITTED TO VDOT IN CONJUNCTION WITH FINAL PAVEMENT DESIGNS. ALL PAVEMENT DESIGN RECOMMENDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF *PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA*.
16. ALL VEGETATION AND ORGANIC MATERIAL SHALL BE REMOVED FROM THE RIGHT OF WAY LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.
17. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE DEVELOPER OR HIS DESIGNEE, WHICH MAY BE THE CONTRACTOR, SHALL IMMEDIATELY ENGAGE A GEOTECHNICAL ENGINEER AND NOTIFY 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.
18. THE NECESSITY AND LOCATIONS FOR ADDITIONAL VDOT STANDARD UNDERDRAINS SHALL BE DETERMINED AT TIME OF SUBGRADE INSPECTION. VIDEO INSPECTION OF ACCESSIBLE OUTLET LOCATIONS, MAINLINE LONGITUDINAL CONNECTIONS, AND LONGITUDINAL PIPE FOR ALL PAVEMENT UNDERDRAINS, CROSS DRAINS, EDGEDRAINS AND PREFABRICATED GEOCOMPOSITE PANEL DRAINS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 501 OF THE *ROAD AND BRIDGE SPECIFICATIONS* AND *VIRGINIA TEST METHOD 108 - POST INSTALLATION INSPECTION OF UNDERDRAINS, CROSSDRAINS, AND EDGEDRAINS*.
19. VDOT SHALL HAVE PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF THE AGGREGATE BASE COURSE(S). CONTACT VDOT FOR SUBGRADE INSPECTION 48 HOURS PRIOR TO SCHEDULING PLACEMENT OF AGGREGATE BASE COURSE(S).
20. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECASTED WEATHER CONDITIONS PER SECTION 315 OF *THE ROAD AND BRIDGE SPECIFICATIONS*.
21. VDOT SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY ASPHALT CONCRETE SURFACE COURSE(S). CONTACT VDOT FOR INSPECTION OF THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
22. A LICENSED GEOTECHNICAL ENGINEER OR HIS DESIGNEE SHALL ASCERTAIN CAUSE AND CERTIFY RECOMMENDED METHOD OF REPAIR FOR ALL PAVEMENT STRUCTURAL FAILURES PRIOR TO STATE ACCEPTANCE.
23. 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 OF THE STREET. CORES ARE TO BE OBTAINED VERIFYING PAVEMENT THICKNESS UNLESS OTHERWISE DIRECTED BY VDOT. THE PERMIT'S INSPECTOR SHALL BE CONTACTED 24 HOURS PRIOR TO THE CORE SAMPLES BEING TAKEN.
24. ALL STORM SEWER DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST *VDOT DRAINAGE MANUAL, ROAD AND BRIDGE STANDARDS*, AND IIMS.
25. ALL PRE-CAST UNITS SHALL BE VDOT APPROVED. CERTIFICATION AND VDOT STAMP IS REQUIRED ON ALL UNITS.
26. ALL CONCRETE SHALL BE CLASS A3-AE (AIR ENTRAINED 3,000 PSI) UNLESS OTHERWISE SPECIFIED.
27. ALL ROADSIDE DITCHES SHOWN AS PAVED ON PLANS ARE TO BE PAVED IN ACCORDANCE WITH THE STANDARD TYPICAL SECTION AS SHOWN ON THE PLANS. ANY ADDITIONAL PAVING OF THE DITCHES, OTHER THAN THOSE SHOWN ON THE ROAD PLANS WILL BE DETERMINED PRIOR TO ACCEPTANCE OF THE ROADS INTO THE VDOT SECONDARY ROAD SYSTEM.
28. ROAD & BRIDGE SPECIFICATIONS SECTION 302, DRAINAGE STRUCTURES ADDRESSES POST INSTALLATION VISUAL/VIDEO CAMERA INSPECTION OF STORM SEWER PIPES AND PIPE CULVERTS. INSPECTION FREQUENCY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR AS NECESSITATED BY THE ENGINEER. VIDEO INSPECTION SHALL BE CONDUCTED IN ACCORDANCE WITH *VIRGINIA TEST METHOD (VTM) 123, POST INSTALLATION INSPECTION OF BURIED STORM SEWER PIPE AND PIPE CULVERTS*.
29. A CONSTRUCTION ENTRANCE SHALL BE INSTALLED ON EACH INDIVIDUAL LOT PRIOR TO ANY LOT GRADING OR HOME CONSTRUCTION ACTIVITIES AND SHALL BE ADEQUATELY MAINTAINED UNTIL ALL CONSTRUCTION TRAFFIC AREAS WITHIN THE LOT HAVE BEEN STABILIZED.
30. ALL ENTRANCES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS. RESIDENTIAL LOT ACCESS SHALL BE PROVIDED PER THE FOLLOWING CRITERIA:

- ALL DRIVEWAY ENTRANCES AND ENTRANCE CULVERTS SHALL CONFORM TO PE-1 PRIVATE ENTRANCE STANDARDS UNLESS OTHERWISE APPROVED BY VDOT. NO ENTRANCE CULVERTS ARE TO BE INSTALLED WITHIN FIVE (5) FEET OF A PROPERTY CORNER.
- VDOT STANDARD CG-9D ENTRANCES SHALL BE USED WHEN AN ENTRANCE IS REQUIRED IN CURB AND GUTTER NEIGHBORHOODS UNLESS OTHERWISE APPROVED BY VDOT.

31. DRY GUTTER IS NOT ALLOWED IN VDOT RIGHT OF WAY EXCEPT AS SHOWN ON VDOT'S ENTRANCE STANDARD DETAILS.
32. THE DEVELOPER SHALL FURNISH AND INSTALL STOP SIGNS AND STOP BARS AT STREET INTERSECTIONS AND ALL REGULATORY SIGNAGE PER THE *MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES*. ALL SIGNS MUST BE INSTALLED ON VDOT STANDARD STP-1 SIGN POSTS.
33. INSTALLATION, MAINTENANCE AND OPERATION OF STREET LIGHTING SHALL BE PROVIDED BY AND AT THE SOLE EXPENSE OF OTHERS. VDOT WILL ALLOW LIGHTING WITHIN THE RIGHT OF WAY BY LUP ONLY. LIGHTING ON CURB SECTIONS SHALL BE PLACED BEHIND THE CURB AND PREFERABLY BEHIND THE SIDEWALK. FOR SHOULDER SECTIONS, THE POLE SHALL BE PLACED A MINIMUM OF 10' FROM EDGE OF PAVEMENT AND BEHIND THE DITCH LINE. ALL LIGHTING PROPOSED WITHIN THE RIGHT OF WAY MUST BE DESIGNED IN ACCORDANCE WITH THE *AASHTO GUIDE FOR ROADWAY LIGHTING* AND SHALL MEET THE CURRENT ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) STANDARDS.
34. TRAFFIC SIGNALS REQUIRE AN INDIVIDUAL LAND USE PERMIT. THE APPLICANT SHALL BE RESPONSIBLE FOR THE DESIGN COSTS OF ANY TRAFFIC SIGNAL INSTALLATION OR MODIFICATION OF EXISTING SIGNALS. DESIGN PLANS MUST BE PREPARED AND SUBMITTED TO VDOT BY A LICENSED PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. THIS INCLUDES THE FOUNDATION DESIGN AND ANY EQUIPMENT ASSOCIATED WITH THE COMPLETED TRAFFIC SIGNAL. ALL EQUIPMENT MUST BE APPROVED BY VDOT. SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO FABRICATING ANY SIGNAL STRUCTURAL COMPONENTS.
35. SOIL STABILIZATION IS REQUIRED WITHIN 7 DAYS FOR ALL AREAS WHERE CLEARING, GRADING, EXCAVATION OR OTHER LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WHERE LAND DISTURBANCE ACTIVITIES HAVE BEEN TEMPORARILY SUSPENDED FOR AN ANTICIPATED DURATION OF GREATER THAN 7 DAYS, OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIED AREA. SOIL STABILIZATION SHALL BEGIN AS SOON AS PRACTICABLE, BUT NOT LATER THAN THE SEVEN DAYS FOLLOWING THE DAY WHEN LAND DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASED.
36. NO STRUCTURE SHALL BE CONSTRUCTED ON STATE MAINTAINED RIGHTS OF WAY, OR ON RIGHT OF WAYS INTENDED TO BE MAINTAINED BY VDOT UNLESS SAID STRUCTURES ARE SHOWN ON CONSTRUCTION PLANS APPROVED BY VDOT OR SUCH STRUCTURES ARE COVERED BY A VDOT LAND USE PERMIT (OR BY A LETTER OF INTENT FROM THE RESIDENT ADMINISTRATOR/RESIDENT ENGINEER TO ISSUE SAID PERMIT AT THE TIME OF STATE ACCEPTANCE).

TRAFFIC CONTROL NOTES

1. WHENEVER CONSTRUCTION OPERATIONS ENCROACH ON THE RIGHT-OF WAY OF ADJACENT ROADWAYS, TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL AND STATE STANDARDS.
2. NO MATERIALS OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE RIGHT-OF-WAY OF ADJACENT ROADWAYS.
3. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR COMPLETING AND IMPLEMENTING TRAFFIC CONTROL PLAN.

BUILDING INSPECTION NOTES:

1. ACCESSIBLE PARKING SPACES, ACCESS ISLES, AND ACCESSIBLE ROUTE SHALL BE INSTALLED IN ACCORDANCE WITH ICC ANSI A117.1-09 AND THE 2015 VIRGINIA CONSTRUCTION CODE.
2. ALL WATER, SEWER LINES, AND FIRE LINES FROM THE MAIN TO THE STRUCTURE LOCATED ON PRIVATE PROPERTY MUST HAVE A VISUAL INSPECTION PERFORMED BY THE BUILDING DEPARTMENT.
3. BUILDINGS OR STRUCTURES BUILT BEFORE JANUARY 1, 1985 MUST HAVE AN ASBESTOS SURVEY PERFORMED IN ORDER TO APPLY FOR A DEMOLITION PERMIT. ASBESTOS REMOVAL PERMITS ARE REQUIRED IF POSITIVE FOR SUCH FROM ALBEMARLE COUNTY AND VDOLI. CONTACT VDOLI FOR THEIR ADDITIONAL REQUIREMENTS AND PERMITS FOR DEMOLITION PROJECTS AT 540-562-3580 X131.

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

Kimley»Horn

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WWW.KIMLEY-HORN.COM

COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

GENERAL NOTES

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CA-101

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CA-101 GENERAL NOTES November 17, 2023 10:09:34am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CA-101 GENERAL NOTES.dwg
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ALBEMARLE COUNTY
FINAL PLAN GENERAL NOTES

General Construction Notes

1. Prior to any construction within any existing public right-of-way, including connection to any existing road, a permit shall be obtained from the Virginia Department of Transportation (VDOT). This plan as drawn may not accurately reflect the requirements of the permit. Where any discrepancies occur the requirements of the permit shall govern.
2. All materials and construction methods shall conform to current specifications and standards of VDOT unless otherwise noted.
3. Erosion and siltation control measures shall be provided in accordance with the approved erosion control plan and shall be installed prior to any clearing, grading or other construction.
4. All slopes and disturbed areas are to be fertilized, seeded and mulched.
5. The maximum allowable slope is 2:1 (horizontal:vertical). Where reasonably obtainable, lesser slopes of 3:1 or better are to be achieved.
6. Paved, rip-rap or stabilization mat lined ditch may be required when in the opinion of the County Engineer, or designee, it is deemed necessary in order to stabilize a drainage channel.
7. All traffic control signs shall conform with the Virginia Manual for Uniform Traffic Control Devices.
8. Unless otherwise noted all concrete pipe shall be reinforced concrete pipe – Class III.
9. All excavation for underground pipe installation must comply with OSHA Standards for the Construction Industry (29 CFR Part 1926).

General Construction Notes for Streets (This list is in addition to the General Construction Notes)

1. Construction inspection of all proposed roads within the development will be made by the County. The contractor must notify the Department of Community Development (296-5832) 48 hours in advance of the start of construction.
2. Upon completion of fine grading and preparation of the roadbed subgrade, the contractor shall have CBR tests performed on the subgrade soil. Three (3) copies of the test results shall be submitted to the County. If a subgrade soil CBR of 10 or greater is not obtainable, a revised pavement design shall be made by the design engineer and submitted with the test results for approval.
3. Surface drainage and pipe discharge must be retained within the public right-of-way or within easements prior to acceptance by the County. All drainage outfall easements are to be extended to a boundary line or a natural watercourse.
4. Guardrail locations are approximate. Exact length, location and appropriate end treatments will be field verified at the time of construction. Additional guardrail may be required at locations not shown when, in the opinion of the County Engineer, or designee, it is deemed necessary. When guardrail is required, it shall be installed four (4) feet offset from the edge

(16Jun 2005)

General construction notes for Stormwater Management plans

1. All dams and constructed fill to be within 95% of maximum dry density and 2% of optimum moisture content. All fill material to be approved by a geotechnical engineer. A geotechnical engineer is to be present during construction of dams.
2. Pipe and riser joints are to be watertight within stormwater management facilities.
3. For temporary sediment traps or basins which are to be converted to permanent stormwater management facilities; conversion is not to take place until the site is stabilized, and permission has been obtained from the County erosion control inspector.

of pavement to the face of guardrail, and roadway shoulder widths shall be increased to seven (7) feet.

5. Where urban cross sections are installed, all residential driveway entrances shall conform to VDOT CG-9(A, B or C).
6. Where rural cross sections are installed, all residential driveway entrances shall conform to VDOT standard PE-1.
7. Compliance with the minimum pavement width, shoulder width and ditch sections, as shown on the typical pavement section detail, shall be strictly adhered to.
8. Road plan approval for subdivisions is subject to final subdivision plat validation. Should the final plat for this project expire prior to signing and recordation, then approval of these plans shall be null and void.
9. All signs or other regulatory devices shall conform with the Virginia Manual for Uniform Traffic Control Devices and the Albemarle County Road Naming and Property Numbering Ordinance and Manual.
10. Traffic control or other regulatory signs or barricades shall be installed by the developer when, in the opinion of the County Engineer, or designee, they are deemed necessary in order to provide safe and convenient access.
11. The speed limits to be posted on speed limit signs are 5 mph below the design speed, or as determined by VDOT for public roads.
12. VDOT standard CD-1 or CD-2 cross-drains under to be installed under the subbase material at all cut and fill transitions and grade sag points as shown on the road profiles.
13. A video camera inspection is required for all storm sewers and culverts that are deemed inaccessible to VDOT or County inspections. The video inspection shall be conducted in accordance with VDOT's video camera inspection procedure and with a VDOT or County inspector present.

General construction notes for Erosion and Sediment Control plans

1. 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 the final inspection.
2. All erosion and sediment control measures will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations VR 625-02-00 Erosion and Sediment Control Regulations.
3. All erosion and sediment control measures are to be placed prior to or as the first step in clearing.
4. A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
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.

(16 Jun 2005)

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.
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.
8. During dewatering operations, water will be pumped into an approved filtering device.
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.
10. All fill material to be taken from an approved, designated borrow area.
11. All waste materials shall be taken to an approved waste area. Earth fill shall be inert materials only, free of roots, stumps, wood, rubbish, and other debris.
12. Borrow or waste areas are to be reclaimed within 7 days of completion per Zoning Ordinance section 5.1.28.
13. All inert materials shall be transported in compliance with section 13-301 of the Code of Albemarle.
14. Borrow, fill or waste activity involving industrial-type power equipment shall be limited to the hours of 7:00am to 9:00pm.
15. Borrow, fill or waste activity shall be conducted in a safe manner than maintains lateral support, or order to minimize any hazard to persons, physical damage to adjacent land and improvements, and damage to any public street because o slides, sinking, or collapse.
16. The developer shall reserve the right to install, maintain, remove or convert to permanent stormwater management facilities where applicable all erosion control measures required by this plan regardless of the sale of any lot, unit, building or other portion of the property.
17. Temporary stabilization shall be temporary seeding and mulching. Seeding is to be at 75 lbs/acre, and in the months of September to February to consist a 50/50 mix of Annual Ryegrass and Cereal Winter Rye, or in March and April to consist of Annual Rye, or May through August to consist of German Millet. Straw mulch is to be applied at 80lbs/100sf. Alternatives are subject to approved by the County erosion control inspector.
18. Permanent stabilization shall be lime and fertilizer, permanent seeding, and mulch. Agricultural grade limestone shall be applied at 90lbs/1000sf, incorporated into the top 4-6 inches of soil. Fertilizer shall be applied at 1000lbs/acre and consist of a 10-20-10 nutrient mix. Permanent seeding shall be applied at 180lbs/acre and consist of 95% Kentucky 31 or Tall Fescue and 0-5% Perennial Ryegrass or Kentucky Bluegrass. Straw mulch is to be applied at 80lbs/100sf. Alternatives are subject to approved by the County erosion control inspector.
19. Maintenance: All measures are to be inspected weekly and after each rainfall. Any damage or clogging to structural measures is to be repair immediately. Silt traps are to be cleaned when 50% of the wet storage volume is filled with sediment. All seeded areas are to be reseeded when necessary to achieve a good stand of grass. Silt fence and diversion dykes which are collecting sediment to half their height must be cleaned and repaired immediately.
20. All temporary erosion and sediment control measures are to be removed within 30 days of final site stabilization, when measures are no longer needed, subject to approval by the County erosion control inspector.

(16 Jun 2005)

September 14, 2021

ACSA GENERAL WATER & SEWER CONDITIONS

1. WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA) INSPECTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE PROPER ACSA OFFICIALS AT THE START OF THE WORK.

2. THE ALBEMARLE COUNTY SERVICE AUTHORITY SHALL HAVE ACCESS TO USE THE AIRSPACE ABOVE THE LOCATIONS OF CONSTRUCTION FOR THE FLIGHT OF UNMANNED AERIAL VEHICLES FOR THE PURPOSE OF IMAGERY COLLECTION.

3. THE LOCATION OF EXISTING UTILITIES ACROSS THE LINE OF THE PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, LOCATE ALL UNDERGROUND LINES AND STRUCTURES, AS NECESSARY.

4. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS, AS ADOPTED BY THE ACSA.

5. DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY (1-800-552-7001).

7. ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM OF THREE AND A HALF (3.5) FEET OF COVER MEASURED FROM THE TOP OF PIPE, OVER THE CENTERLINE OF PIPE. THIS INCLUDES ALL FIRE HYDRANT LINES, SERVICE LATERALS AND WATER LINES, ETC.

8. ALL WATER AND SEWER APPURTENANCES ARE TO BE LOCATED OUTSIDE OF ROADSIDE DITCHES.

9. VALVES ON DEADEND LINES SHALL BE RODDED TO PROVIDE ADEQUATE RESTRAINT FOR THE VALVE DURING A FUTURE EXTENSION OF THE LINE.

10. TREES ARE NOT PERMITTED IN THE ACSA EASEMENT.

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE NO-LEAD REGULATION REGARDING BRASS FITTINGS EFFECTIVE JANUARY 4, 2014 (SENATE BILL 3874 WHICH AMENDS THE SAFE DRINKING WATER ACT).

12. THE SEWER LATERAL BEYOND THE CONNECTION AT THE SEWER MAIN SHALL BE PRIVATE. THE SEWER LATERAL STUB-OUT SHALL UNDERGO THE ACSA LOW-PRESSURE AIR TEST TO SATISFY COUNTY TESTING REQUIREMENTS. VISUAL INSPECTION OF THE SEWER LATERAL STUB-OUT SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.

13. THE SEWER LATERAL BEYOND THE CONNECTION AT A MANHOLE SHALL BE PRIVATE. VISUAL INSPECTION AND PRESSURE TESTING OF THE SEWER LATERAL SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.

14. THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE IS PRIVATE. VISUAL INSPECTION AND TESTING OF THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.

15. ALL FLUSHING OF FIRE SPRINKLER MAINS SHALL NOT OCCUR UNTIL APPROVAL IS GIVEN BY THE ACSA.

16. PRIOR TO BACKFLOW PREVENTION DEVICE TESTING AND THE ESTABLISHMENT OF WATER SERVICE, ALL BACKFLOW PREVENTION DEVICE INSTALLATIONS SHALL MEET THE ACSA BACKFLOW REQUIREMENTS AS DETAILED IN *SECTION 8* OF THE MOST RECENT REVISION OF THE *ACSA RULES AND REGAULTIONS*.

17. A DEED OF EASEMENT AND EASEMENT PLAT FOR THE UTILITY EASEMENTS, APPROVED BY THE ACSA, SHALL BE RECORDED PRIOR TO ANY WATER AND/OR SEWER SERVICE BEING ESTABLISHED.

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
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11/17/2023
PROFESSIONAL ENGINEER

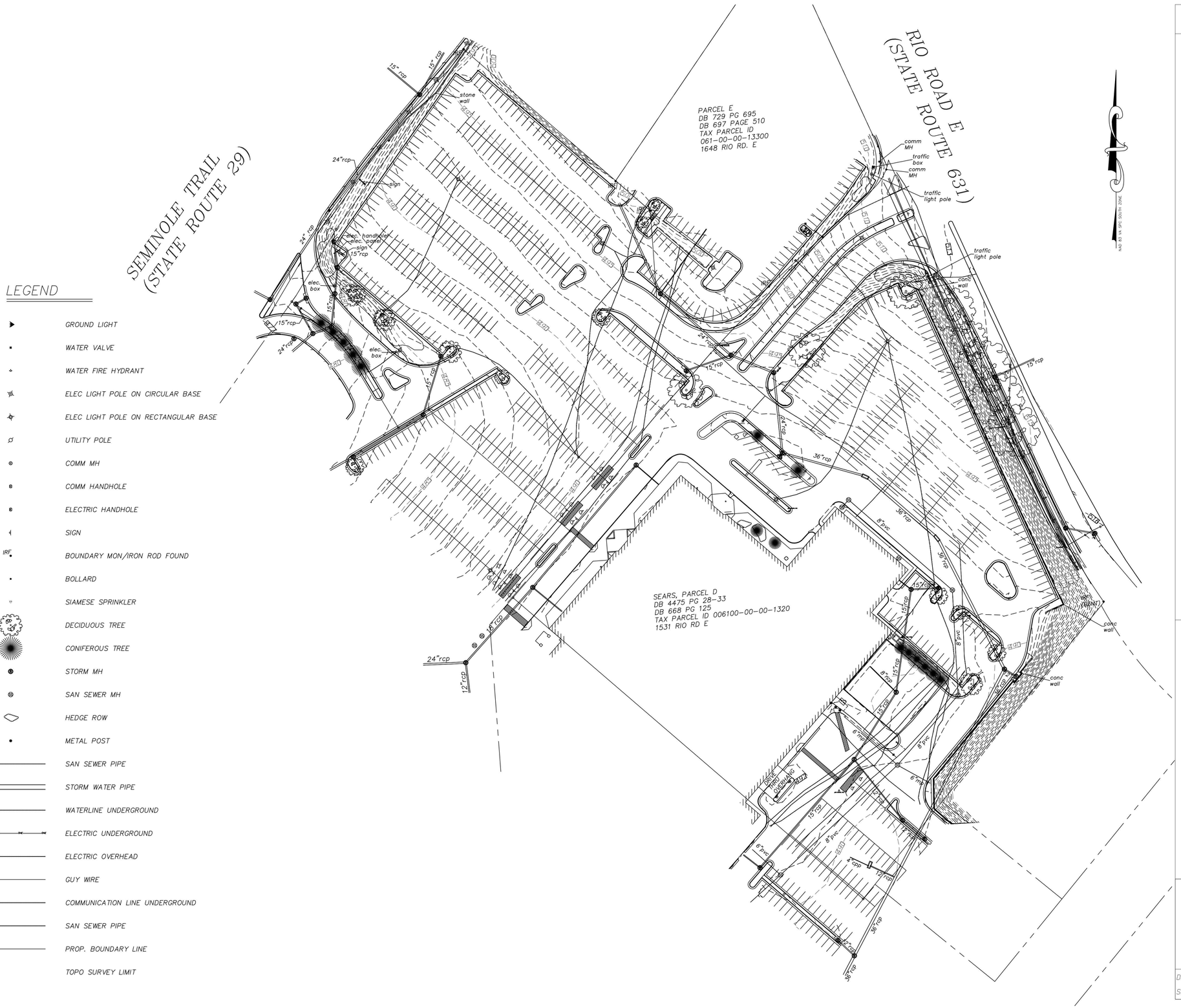
KHA PROJECT	113226001
DATE	11/17/2023
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ALBEMARLE COUNTY GENERAL NOTES

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CA-102

Plotted By: Tejada, Gabriel Sheet Set: PMT Sheetset Layout: CA-102 ALBEMARLE COUNTY GENERAL NOTES November 17, 2023 10:10:40am K:\NC_CVL\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CA-102 ALBEMARLE COUNTY GENERAL NOTES.dwg
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LEGEND

- GROUND LIGHT
- WATER VALVE
- WATER FIRE HYDRANT
- ELEC LIGHT POLE ON CIRCULAR BASE
- ELEC LIGHT POLE ON RECTANGULAR BASE
- UTILITY POLE
- COMM MH
- COMM HANDHOLE
- ELECTRIC HANDHOLE
- SIGN
- IRF — BOUNDARY MON/IRON ROD FOUND
- BOLLARD
- SIAMESE SPRINKLER
- DECIDUOUS TREE
- CONIFEROUS TREE
- STORM MH
- SAN SEWER MH
- HEDGE ROW
- METAL POST
- SAN SEWER PIPE
- STORM WATER PIPE
- WATERLINE UNDERGROUND
- ELECTRIC UNDERGROUND
- ELECTRIC OVERHEAD
- GUY WIRE
- COMMUNICATION LINE UNDERGROUND
- SAN SEWER PIPE
- PROP. BOUNDARY LINE
- TOPO SURVEY LIMIT

NOTES

(1) THIS DRAWING IS BASED ON A CURRENT FIELD SURVEY PERFORMED BY CIVIL SURVEYORS, INC. ON JULY 18, 2022.

(2) HORIZONTAL DATUM AND VERTICAL DATUM ARE NAD 83 – VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. FEET. AND NAVD 88 ESTABLISHED USING GPS OBSERVATIONS PERFORMED ON JUNE 18, 2022.

(3) UNDERGROUND UTILITIES SURVEY WAS PERFORMED AT QUALITY LEVEL "B"

(4) BOUNDARY SURVEY WAS NOT PERFORMED. BOUNDARY LINES SHOWN WERE COMPILED FROM PLATS, DEEDS AND OTHER LAND RECORDS PROVIDED BY CLIENTS.

TOPOGRAPHIC SURVEY OF

TAX PARCEL ID-006100-00-00-1320
FASHION SQUARE MALL
CHARLOTTESVILLE, VIRGINIA

0 60 120 180

Scale: 1" = 60'

CIVIL SURVEYORS INC.
D.B.A. D & M Surveyors
221 Queen Street, P.O. Box 1828, Tappahannock, Va. 22560
Office: 804-443-3080
Email: lwhite@civsur.com

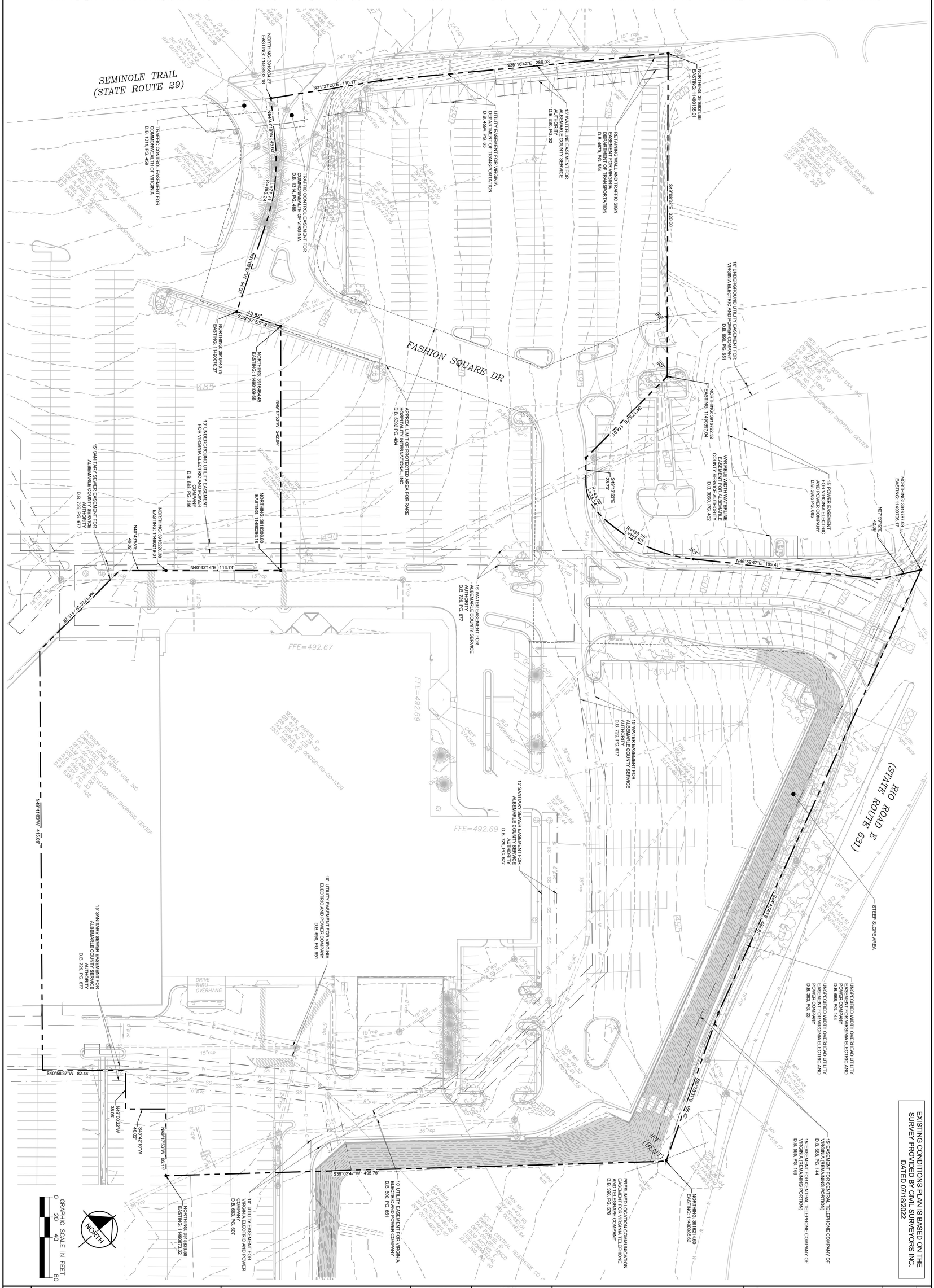
Tax ID:
Parcel:
Revised:

Date: 7/18/2022 | Drawn By: LOK | Sheet No. 1 of 1
Scale: 1" = 60 | Checked By: LOW

SURVEY

CV-101

Plotted By:Tejada, Rafael Sheet Set:PMT Sheetset Layout:CV-102 EXISTING CONDITIONS November 17, 2023 10:12:14am K:\RIC_CIV\113226001 – HD Fashion Square Mall\CAD\PlanSheets\CV-102 EXISTING CONDITIONS.dwg
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EXISTING CONDITIONS PLAN IS BASED ON THE SURVEY PROVIDED BY CIVIL SURVEYORS INC. DATED 07/18/2022

SHEET NUMBER CV-102

HOME DEPOT

ALBEMARLE VA

EXISTING CONDITIONS

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COMMONWEALTH OF VIRGINIA DAVID B. ELLISON Lic. No. 043505 PROFESSIONAL ENGINEER 11/17/2023

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DEMOLITION NOTES

1. THIS DEMOLITION/EROSION CONTROL PLAN IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION AND FOR THE DEMOLITION, REMOVAL, OR RELOCATION OF ITEMS IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
2. THE CONTRACTOR SHALL KEEP ALL ADJACENT ENTRANCES AND PARKING AREAS FREE FROM DIRT, DUST, AND AGGREGATE CAUSED BY VEHICLE TRACKING. THESE AREAS SHALL BE SWEPT AS OFTEN AS NECESSARY TO KEEP AREAS CLEAN AT A MINIMUM ONCE PER DAY.
3. ALL VALVES, VAULTS, MANHOLES, ETC. THAT ARE TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. CONTRACTOR TO CONFIRM ALL EXISTING STORM STRUCTURE INVERTS PRIOR TO PROPOSED STORM SYSTEM INSTALLATION.
5. CONTRACTOR TO CONFIRM ALL EXISTING SANITARY SEWER INVERTS PRIOR TO PROPOSED SEWER INSTALLATION.
6. DEMOLITION OF BUILDING TO INCLUDE REMOVAL OF FOUNDATIONS, UNDERGROUND STRUCTURES, AND BUILDING UTILITIES.
7. ALL EXISTING UTILITIES WILL MAINTAIN MINIMUM COVER DURING CONSTRUCTION AND VALVES WILL BE FLUSHED TO GRADE.
8. AN ASBESTOS SURVEY MUST BE COMPLETED. IF ASBESTOS IS FOUND, A PERMIT FROM ALBEMARLE COUNTY AND THE VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY (DOLI) IS NEEDED FOR REMOVAL.
9. ONCE ASBESTOS ABATEMENT HAS BEEN COMPLETED, A DEMOLITION PERMIT IS REQUIRED.

DEMOLITION LEGEND

- LIMITS OF DISTURBANCE
- BUILDING TO BE REMOVED
- TREES/SHRUBS TO BE REMOVED
- UTILITIES TO BE REMOVED OR RELOCATED
- TREE PROTECTION FENCE

RIO ROAD E (STATE ROUTE 631)

SEMINOLE TRAIL (STATE ROUTE 29)

FASHION SQUARE DR

RETAINING WALL TO BE REMOVED. REFER TO GRADING PLAN FOR LIMITS

REMOVE UNDERGROUND ELECTRIC LINE AND LIGHT POLES

REMOVE ALL ASPHALT AND CONCRETE WITHIN LIMITS OF DISTURBANCE

CONTRACTOR TO MANTAIN FIRE PROTECTION TO THE MALL DURING CONSTRUCTION.

SHUT OFF VALVE

REMOVE 15" RCP STORM SEWER PIPE

CURB AND GUTTER TO BE REMOVED

REMOVE 36" RCP STORM SEWER PIPE

REMOVE WATERLINE

REMOVE 8" PVC SANITARY SEWER LINE

REMOVE 24" RCP STORM SEWER PIPE

REMOVE ALL ASPHALT AND CONCRETE PADS WITHIN LIMITS OF DISTURBANCE

REMOVE 8" RCP STORM SEWER PIPE

REMOVE 15" RCP STORM SEWER PIPE

LIGHT POLE TO BE REMOVED

REMOVE 12" RCP STORM SEWER PIPE

CURB TO BE REMOVED AROUND BUILDING

REMOVE EXISTING 6" MP SANITARY SEWER LINE

REMOVE COMM LINE

REMOVE EXISTING 8" PVC SANITARY SEWER LINE

REMOVE WATERLINE

SHUT OFF VALVE IS LOCATED AT THE NEXT INTERSECTION OF WATER MAINS

LIMITS OF DISTURBANCE 9.37 AC

NORTHING: 3916214.60
EASTING: 11490985.62

NORTHING: 3916464.45
EASTING: 11490109.68

NORTHING: 3916306.60
EASTING: 11490293.18

NORTHING: 3916440.79
EASTING: 11490070.37

NORTHING: 3916220.38
EASTING: 11490219.01

NORTHING: 3915829.58
EASTING: 11490673.32

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT	113226001
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DEMOLITION PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CD-101

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset: Layout:CD-101 DEMOLITION PLAN November 17, 2023 10:13:25am K:\NRC_CVA\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CD-101 DEMOLITION PLAN.dwg
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PHASE I PROBABLE CONSTRUCTION SEQUENCE

1. SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING. THE OWNER MUST GIVE THE COUNTY INSPECTOR AT LEAST 48 HOURS NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING FOR THE ISSUANCE OF A LAND DISTURBANCE PERMIT. THE CERTIFIED REGISTERED LAND DISTURBER (CRLD) MUST ATTEND THE MEETING.
2. THE VSMP CONSTRUCTION ACTIVITY OPERATOR AND THE COUNTY ENVIRONMENTAL INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING.
3. INSTALL PERIMETER SAFETY FENCE, SILT FENCE, INLET PROTECTION AS SHOWN ON PLAN.
4. INSTALL CONSTRUCTION ENTRANCE AT EXISTING ENTRANCE ON SEMINOLE TRAIL. CONTRACTOR TO KEEP EXISTING ROADS FREE OF MUD AND DEBRIS AT ALL TIMES.
5. BEGIN SITE DEMOLITION ACTIVITIES. MAINTAIN POSITIVE DRAINAGE TO EROSION CONTROL MEASURES AT ALL TIMES. CONTRACTOR TO SEED/MULCH AREAS IMMEDIATELY AS DISTURBANCE CONTINUES THROUGHOUT CONSTRUCTION.
6. ONCE PHASE I EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, CONTRACTOR MAY BEGIN PHASE II CONSTRUCTION ACTIVITIES. REFER TO SHEET CE-102 FOR PHASE II SEQUENCE OF CONSTRUCTION.

E&S LEGEND

STD. & SPEC.	MEASURE	CALLOUT	SYMBOL	QUANTITY
3.01	SAFETY FENCE	SAF		2,601 LF
3.02	CONSTRUCTION ENTRANCE	CE		1 EA.
3.31	TEMPORARY SEEDING	TS	TS	±0.66 AC.
3.38	TREE PROTECTION	TP	TP TP	461 LF
	INLET PROTECTION	IP		16 EA.
	LIMITS OF DISTURBANCE			9.37 AC.

APPROXIMATE LOCATION OF STAGING AND OFFICE TRAILER

APPROXIMATE LOCATION OF LAYDOWN AREA

100.0'

100.0'

CONCRETE WASHOUT AREA (SEE SHEET CE-502)

RIO ROAD E (STATE ROUTE 631)

SEMINOLE TRAIL (STATE ROUTE 29)

FFE=492.69

FFE=492.67

FFE=492.69

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

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Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

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PHASE I EROSION AND SEDIMENT CONTROL PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CE-101

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CE-101 PHASE I EROSION AND SEDIMENT CONTROL PLAN November 17, 2023 - 10:14:29am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CE-101 PHASE I EROSION AND SEDIMENT CONTROL PLAN.dwg
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PHASE II PROBABLE CONSTRUCTION SEQUENCE

1. CONTRACTOR TO INSPECT AND MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS/ADDITIONS BEFORE BEGINNING PROPOSED IMPROVEMENTS.
2. BEGIN SITE GRADING TO PROPOSED FINISHED GRADES MAINTAINING POSITIVE DRAINAGE TO EXISTING INLETS. INLET PROTECTION IS TO REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
3. INSTALL STORM SEWER, INLET PROTECTION AND BEGIN INSTALLATION OF UTILITIES.
4. BEGIN CONSTRUCTION OF INTERNAL PARKING, CURB AND GUTTER, AND DRIVE AISLES. INSTALL STONE BASE TO ALL PARKING AREAS TO SERVE AS TEMPORARY STABILIZATION AND INSTALL TEMPORARY SEEDING IN NEWLY GRADED AREAS.
5. CONSTRUCT PROPOSED BUILDING.
6. PAVE PARKING AREAS, INSTALL PAVEMENT STRIPING, AND FULLY STABILIZE ON-SITE IMPROVEMENTS.
7. REMOVE EROSION CONTROLS UPON FULL STABILIZATION OF ALL SITE IMPROVEMENTS. NO EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED WITHOUT APPROVAL OF THE ENVIRONMENTAL INSPECTOR FOR THE SITE.
8. INSTALL FINAL LANDSCAPING AND PLANTINGS.
9. SITE CLEANUP/DEMOBILIZATION.

VIRGINIA UNIFORM CODING SYSTEM FOR E&S CONTROL

STD. & SPEC.	MEASURE	CALLOUT	SYMBOL	QUANTITY
3.01	SAFETY FENCE	SAF		2,601 LF
3.02	CONSTRUCTION ENTRANCE	CE		1 EA.
3.32	PERMANENT SEEDING	PS	PS	±0.66 AC.
3.36	BLANKET MATTING	BM	BM	
3.38	TREE PROTECTION	TP	TP TP	461 LF
	INLET PROTECTION	IP		14 EA.
LIMITS OF DISTURBANCE				9.37 AC.

NOTE: REFER TO SHEETS CG-101 TO CG-104 FOR STRUCTURE INFORMATION.

RIO ROAD E
(STATE ROUTE 631)

APPROX. LOCATION OF STAGING OFFICE TRAILER

APPROXIMATE LOCATION OF TRAILER LAYDOWN AREA

100.0'

100.0'

CONCRETE WASHOUT AREA (SEE SHEET CE-502)

FASHION SQUARE DR

SEMINOLE TRAIL
(STATE ROUTE 29)

GARDEN CENTER
28,116 S.F.

THE HOME DEPOT

BUILDING	108,283 S.F.
VESTIBULES	1,348 S.F.
GARDEN CENTER	28,116 S.F.
	137,747 S.F.

VERIFY ACTUAL BLDG. AREA WITH ARCHITECTURAL BLDG. PLAN

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

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KHA PROJECT 113226001
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PHASE II EROSION AND SEDIMENT CONROL PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CE-102

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CE-102 PHASE II EROSION AND SEDIMENT CONTROL PLAN November 17, 2023 10:16:07am K:\NRC_CVA\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CE-102 PHASE II EROSION AND SEDIMENT CONTROL PLAN.dwg
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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVEMENTS ASSOCIATED WITH A NEW HOME DEPOT TO BE LOCATED AT 1600 RIO ROAD EAST IN ALBEMARLE COUNTY, VA. THE SITE AREA IS 13.95 ACRES, AND THE DISTURBED AREA IS 9.37 ACRES.

PROPOSED IMPROVEMENTS INCLUDE A NEW 137,747 SQUARE-FOOT BUILDING, ASSOCIATED DRIVE AISLES, PARKING AREAS, CURBING, WATER AND SEWER SYSTEMS, AND STORM DRAINAGE SYSTEMS. SITE WORK INCLUDES DEMOLITION OF PORTIONS OF THE EXISTING BUILDING, PORTIONS OF THE EXISTING DRAINAGE NETWORK, CLEARING AND GRADING, UTILITY INSTALLATIONS, PAVING, AND LANDSCAPING.

ACCESS WILL BE PROVIDED FROM A PROPOSED ENTRANCE FROM SEMINOLE TRAIL.

EXISTING SITE CONDITIONS

CURRENTLY, THE SITE IS A STORE WITH PARKING, UTILITIES, AND LANDSCAPING REMAINING.

THE EXISTING ELEVATIONS RANGE FROM APPROXIMATELY 480 FEET TO 516 FEET WITH RELATIVELY FLAT SLOPES THROUGHOUT THE CENTER OF THE PROPERTY AND EXISTING PARKING LOTS AND DRIVE AISLES. THE EXISTING SITE IS APPROXIMATELY 93% IMPERVIOUS. CURRENTLY, THE MAJORITY OF THE SITE DRAINS TOWARDS SEMINOLE TRIAL WHERE THE STORM DRAINAGE IS PICKED UP BY INLETS ALONG THE ROAD. PART OF THE SITE DRAINS TOWARDS SOUTH WEST AND NORTH EAST PART WHERE THE STORM DRAINAGE IS PICKED UP BY INLETS ALONG THE SITE.

ADJACENT AREAS

THE SUBJECT SITE IS BORDERED BY RIO ROAD EAST TO THE NORTH, SEMINOLE TRAIL TO THE WEST, THE FASHION SQUARE MALL TO THE SOUTH.

OFF-SITE AREAS

OFF-SITE LAND DISTURBANCE IS LIMITED TO UTILITY CONNECTIONS IN RIO ROAD EAST AND EAST SIDE OF THE BUILDING, CURB AND GUTTER WORK IN THE SITE ENTRANCE OF SEMINOLE TRAIL. A LARGE RECIPROCAL EASEMENT AGREEMENT WILL BE RECORDED TO ALLOW ALL TEMPORARY CONSTRUCTION ACTIVITIES TO OCCUR ON THE ADJACENT PARCEL.

SOILS

ACCORDING TO THE NATURAL RESOURCE CONSERVATION SERVICE MAP THE SOILS ON SITE ARE CLASSIFIED AS:

MAP UNIT: 91—URBAN LAND
DESCRIPTION CATEGORY: GENSOIL
URBAN LAND: 85 PERCENT

GENERATED BRIEF SOIL DESCRIPTIONS ARE CREATED FOR MAJOR SOIL COMPONENTS. THE URBAN LAND IS A MISCELLANEOUS AREA.

FOR MORE DETAILED SOILS INFORMATION, SEE THE FINAL ECS GEOTECHNICAL REPORT.

CRITICAL AREAS

CRITICAL AREAS TYPICALLY INCLUDE AREAS OF STEEP SLOPES, AREAS ADJACENT TO WETLANDS, AND OTHER AREAS WITH SERIOUS EROSION POTENTIAL. NO WETLANDS AREAS WERE IDENTIFIED ON THE SUBJECT SITE. THERE IS A RETAINING WALL TO MANAGE THE STEEP SLOPES TOWARDS RIO ROAD EAST ENTRANCE.

SOIL STOCKPILE NOTE

NO SOIL STOCKPILES ARE ANTICIPATED FOR THIS PROJECT.

EROSION CONTROL MEASURES

THE FOLLOWING EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) OF THE SITE PLAN WILL BE USED FOR THIS PROJECT:

3.01 SAFETY FENCE - SAFETY FENCE WILL BE INSTALLED AROUND THE PERIMETER OF THE SITE. THE PURPOSE OF THIS PRACTICE IS TO PREVENT UNDESIRABLE ACCESS AND USE OF AN EROSION CONTROL DEVICE BY THE PUBLIC.

3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE - A STABILIZED STONE PAD WITH A FILTER FABRIC UNDERLINER WILL BE PROVIDED AT THE PRIMARY CONSTRUCTION ACCESS POINT. THE PURPOSE OF THIS PRACTICE IS TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF. 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. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

3.05 SILT FENCE (SILT oxxTM OR SIMILAR): A TEMPORARY SEDIMENT BARRIER TO CONTROL EROSION IN SHEET FLOW AND LOW FLOW CHANNEL SITUATIONS. SILT FENCE CONSISTS OF A SYNTHETIC FILTER FABRIC (USUALLY BLACK) ENTRENCHED INTO THE GROUND, STRETCHED TIGHT AND ATTACHED TO SUPPORT POSTS SPACED 6 FEET APART. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER. FABRIC SHALL BE REPLACED IF HAS DECOMPOSED OR BECOME INEFFECTIVE.

3.07 STORM DRAIN INLET PROTECTION - A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET WILL BE PROVIDED AT ALL INLET LOCATIONS WITHIN THE LIMITS OF DISTURBANCE. THE PURPOSE OF THIS PRACTICE IS TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

3.31 TEMPORARY SEEDING - THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS WILL BE PROVIDED ON ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN 14 DAYS. TEMPORARY SEEDING SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN LONGER THAN 14 DAYS AS PER MS-1. THE PURPOSE OF THIS PRACTICE IS TO PROVIDE PROTECTION TO BARE SOILS EXPOSED DURING CONSTRUCTION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED.

3.32 PERMANENT SEEDING - THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED WILL BE PROVIDED AS SHOWN ON THE LANDSCAPING PLAN. PERMANENT SEEDING SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED AS PER MS-1. THE PURPOSE OF THIS PRACTICE IS TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS AND TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.

3.36 SOIL STABILIZATION BLANKET AND MATTING - TO BE INSTALLED AS DENOTED ON THE PLANS. THE PURPOSE IS TO AID IN CONTROLLING EROSION ON CRITICAL AREAS BY PROVIDING A MICROCLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.

3.38 TREE PROTECTION: PROTECTION OF DESIRABLE TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY. ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL, WATERSHED PROTECTION, LANDSCAPE BEAUTIFICATION, DUST AND POLLUTION CONTROL, NOISE REDUCTION, SHADE AND OTHER ENVIRONMENTAL BENEFITS WHILE THE LAND IS BEING CONVERTED FROM FOREST TO URBAN-TYPE USES.

PERMANENT STABILIZATION

PERMANENT STABILIZATION WILL BE ACHIEVED WITH SODDING AND SEEDING AS SHOWN ON THE LANDSCAPING AND PHASE II EROSION CONTROL PLAN SHEETS OF THE SITE PLAN FOR ALL VEGETATED AREAS. CONCRETE, PAVEMENT, AND OTHER IMPERVIOUS SURFACES WILL STABILIZE THE REMAINDER OF THE SITE.

MAINTENANCE

BETWEEN THE TIME THE EROSION CONTROL PLAN IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND EROSION CONTROLS MUST BE INSPECTED NOT LESS THAN ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A RUNOFF PRODUCING RAINFALL EVENT.

EXAMPLES OF PARTICULAR ITEMS TO BE EVALUATED DURING SITE INSPECTIONS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. DURING EACH INSPECTION, EACH INSPECTOR MUST EVALUATE OVERALL EROSION CONTROL SYSTEM PERFORMANCE, AS WELL AS THE EFFECTIVENESS OF SYSTEM COMPONENTS. ADDITIONAL FACTORS SHOULD BE CONSIDERED AS APPROPRIATE TO THE CIRCUMSTANCES.

- LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED WHERE VEHICLES ENTER AND EXIT. THIS ENTRANCE WILL BE MAINTAINED OR SUPPLEMENTED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE ON VEHICLES. SEDIMENT TRACKED ONTO PUBLIC ROADWAYS MUST BE SHOVELED OR SWEPT FROM THE ROADWAY AND RE-DEPOSITED ON SITE IN A MANNER THAT MINIMIZES ITS OFFSITE RELEASE POTENTIAL.
- SEDIMENT BARRIERS MUST BE INSPECTED AND, IF NECESSARY, THEY MUST BE ENLARGED OR CLEANED IN ORDER TO PROVIDE ADDITIONAL CAPACITY. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS SHALL BE STOCKPILED ON THE UP SLOPE SIDE OF THE BARRIER. ADDITIONAL SEDIMENT BARRIERS MUST BE CONSTRUCTED AS NEEDED.
- INSPECTIONS WILL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, IN ORDER TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS.
- GRASSED AREAS WILL BE INSPECTED TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED. THE SITE HAS ACHIEVED FINAL STABILIZATION WHEN TURF GRASS COVER PROVIDES PERMANENT STABILIZATION OF THE SOIL SURFACE EXCLUSIVE OF AREAS THAT HAVE BEEN PAVED OR COVERED BY BUILDING(S). PERMANENT STABILIZATION IS NOT CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS.

BASED UPON THE RESULTS OF THE INSPECTIONS, EACH EROSION AND SEDIMENT CONTROL MEASURE SHALL BE REPAIRED AND/OR MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE REQUIREMENTS SPECIFIED IN THE CORRESPONDING SECTION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE CONTRACTOR SHALL MAINTAIN A COPY OF THIS HANDBOOK ON SITE AT ALL TIMES DURING CONSTRUCTION.

MS-19 MINIMUM STANDARDS

MS-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 FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

MS-2 DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS 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 BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

MS-3 A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

MS-4 SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

MS-5 STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6 SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

MS-7 CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

MS-8 CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

MS-9 WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10 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.

MS-11 BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

MS-12 WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT 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 NONERODIBLE COVER MATERIALS.

MS-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 SHALL BE PROVIDED.

MS-14 ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS-15 THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-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.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C. 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 STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
F. APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.

MS-17 WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

MS-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 AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

MS-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. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:

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:
(1) 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 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) 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:
(1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS 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 WITHIN THE APPURTENANCES;
(3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANMADE CHANNEL; OR
(4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.

D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.

E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.

MS-19 MINIMUM STANDARDS (CONT.)

F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

G. 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 STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.

J. IN APPLYING THESE STORMWATER 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 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.

L. 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 FROM ANY FLOW RATE 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.

M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS.

N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:
(FROM 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 9VAC25-840-40 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE CHESTERFIELD COUNTY ENVIRONMENTAL ENGINEER 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 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 CHESTERFIELD COUNTY ENVIRONMENTAL INSPECTOR.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE CHESTERFIELD COUNTY ENVIRONMENTAL INSPECTOR.

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 DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED SEDIMENT TRAPPING/FILTERING DEVICE. NO CONTAMINATED EFFLUENT OR GROUNDWATER MAY BE DISCHARGED WITHOUT A SEPARATE VPDES DISCHARGE PERMIT FROM THE VDEQ.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES NOT LESS THAN ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 48 HOURS FOLLOWING A RUNOFF PRODUCING RAINFALL EVENT (0.5 INCH OR GREATER RAINFALL WITHIN A 24-HOUR PERIOD). A RAIN GAUGE SHALL BE INSTALLED ON-SITE TO DETERMINE IF AN INSPECTION TRIGGERING RAINFALL EVENT HAS OCCURRED. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

ES-10: DUST CONTROL SHALL BE PROVIDED IN COMPLIANCE WITH APPLICABLE LOCAL AND STATE DUST CONTROL REGULATIONS.

ES-11: NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED, REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

ES-12: ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. TEMPORARY SANITARY FACILITIES WHERE PROVIDED AT THE SITE THROUGHOUT THE CONSTRUCTION PHASE MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND SHALL BE SERVICED BY A COMMERCIAL OPERATOR WHEN PROVIDED.

ES-13: NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHEN USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE VA DEPARTMENT OF HEALTH. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE.

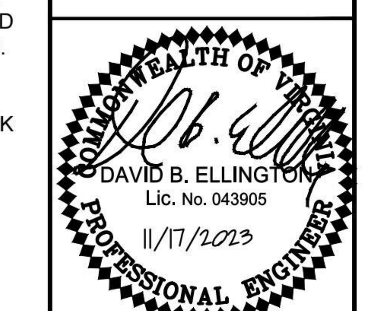
ES-14: MATERIALS RESULTING FROM CLEARING AND GRUBBING SHALL BE STOCKPILED UP SLOPE FROM ADEQUATE SEDIMENTATION CONTROLS OR HAULED OFF-SITE.

ES-15: THE USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED.

ES-16: CHEMICALS, PAINTS, SOLVENTS, FERTILIZIERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTENTS MUST BE KEPT LOCKED IN TRUCKS OR WITHIN LOCKED STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM SITE, TREATED, AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

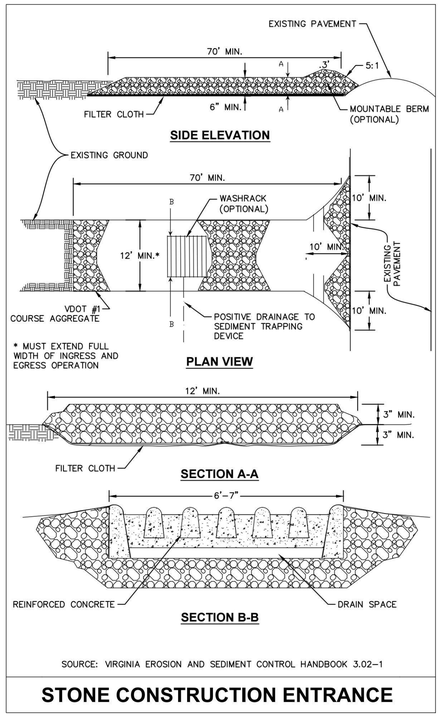
EROSION AND SEDIMENT CONTROL NOTES & DETAILS

HOME DEPOT

ALBEMARLE VA

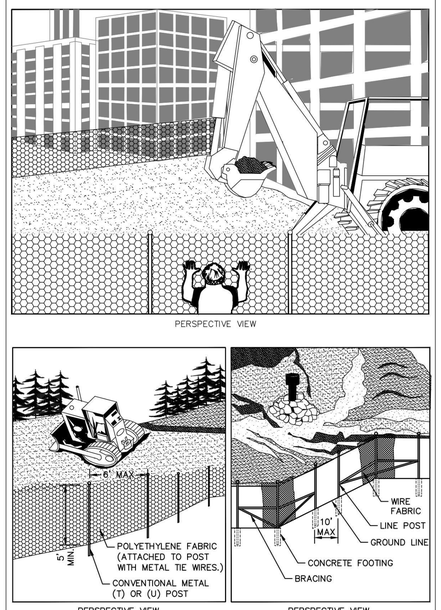
SHEET NUMBER
CE-501

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CE-501 EROSION AND SEDIMENT CONTROL NOTES & DETAILS November 17, 2023 10:17:31am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CE-501 E&SC NOTES & DETAILS.dwg
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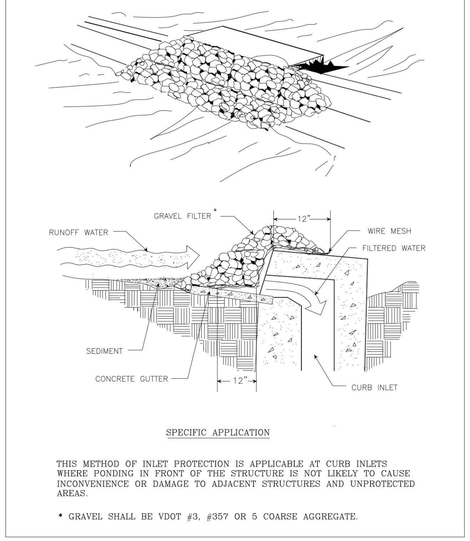
SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK 3.02–1

STONE CONSTRUCTION ENTRANCE

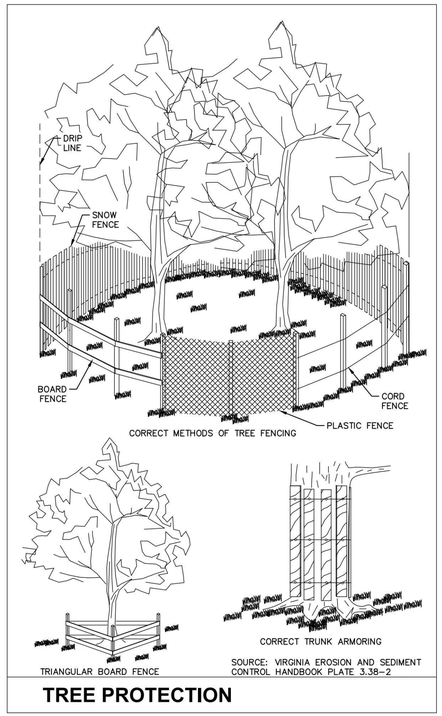


SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK 3.01–1

SAFETY FENCE



SOURCE: VA. DSWC PLATE 3.07–6

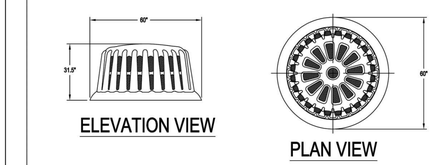


SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK PLATE 3.38–2

TREE PROTECTION

R100A

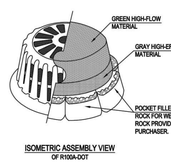
SILT-SAVER
EROSION AND SEDIMENT CONTROL PRODUCTS



FILTER OPTIONS FOR ASSEMBLIES:
1) R100A-HF (HIGH-FLOW FILTER) GREEN HIGH FLOW MATERIAL THROUGHOUT THE TOP OF THE FILTER EXTENDING TO ROCK BAG PLATFORM.
2) R100A-DOT (DOT FILTER) GREEN HIGH FLOW MATERIAL ALLOWS FOR STORM WATER OVERFLOW AT THE TOP OF THE FILTER WHILE THE GRAY HIGH EFFICIENCY SEDIMENT FILTRATION FABRIC COVERS THE BOTTOM HALF OF THE FILTER EXTENDING TO THE ROCK BAG PLATFORM. IT IS THE PURCHASERS RESPONSIBILITY TO SELECT APPROPRIATE FILTER.

FILTER INSTALLATION
FILTER SHOULD BE PLACED OVER FRAME. POCKETS ON THE EDGES OF THE FILTER SHOULD BE FILLED WITH ROCK. INSTALLER SHALL PROVIDE ROCK FOR FILTER POCKETS

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT FRAME AND FILTER DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.



ISOMETRIC ASSEMBLY VIEW OF R100A-DOT

REPLACEMENT FILTERS: MODEL # R-140HF OR R-140DOT

ROUND BASE FRAME & FILTER ASSEMBLY
60" DIAMETER AKA "SS-100A (Round)"
Model # R-100A

FRAME MATERIAL: BLACK PE	
FILTER FABRIC MATERIAL: REFER TO SPEC	
SCALE: NOT TO SCALE	
LAST UPDATED: MARCH 2021	

SILT-SAVER, INC. 1200 FORRESTER CEMETERY RD, COVINGTON, GA 30014 PHONE: (770) 388-7818 FAX: (770) 388-7840 TOLL FREE: 1-888-383-SILT (7458) www.siltsaver.com

SAFETY FENCE

DANDY SACK® FRAMED MODEL

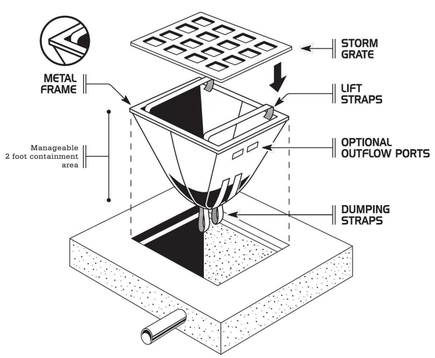


TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED

APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Iolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

SEED[1]

LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] Perennial Ryegrass Kentucky Bluegrass[1]	95-100% 0-5% 0-5% TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue[1]	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2]	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Crownvetch[3]	108 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16th - April	Annual Rye
May 1st - August 15th	Foxtail Millet
August 16th - October	Annual Rye
November - February 15th	Winter Rye

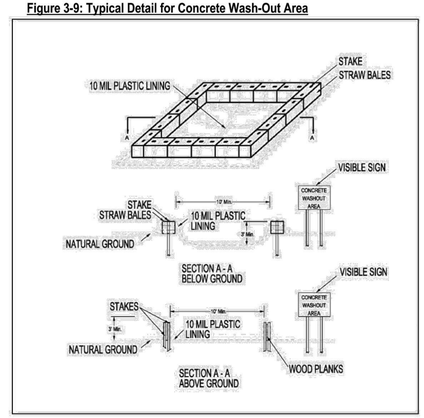
3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40

FERTILIZER & LIME

Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

Figure 3-9: Typical Detail for Concrete Wash-Out Area



1	CUP SUBMITTAL REVISION	10/16/2023	DE
No.	REVISIONS	DATE	BY

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PHONE: 804-673-3882
WWW.KIMLEY-HORN.COM

COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY R.A.T.
CHECKED BY DBE

EROSION AND SEDIMENT CONTROL NOTES & DETAILS

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CE-502

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CE-502 EROSION AND SEDIMENT CONTROL NOTES & DETAILS November 17, 2023 10:17:33am K:\NRV_CIV\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CE-501 E&SC NOTES & DETAILS.dwg
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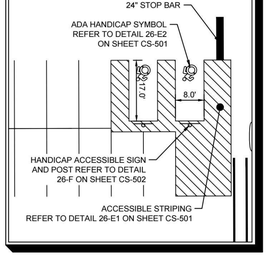
SITE NOTES

1. ALL CURB RADII ARE 5.0' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL STOP SIGNS, DIRECTIONAL SIGNS, AND STRIPING SHOWN ON THE PLANS.
4. REFER TO FINAL GEOTECHNICAL REPORT FOR FINAL PAVEMENT SECTIONS.

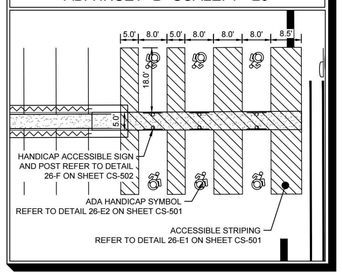
SITE LEGEND

- HEAVY DUTY CONCRETE — SEE SHEET CS-502
- CONCRETE SIDEWALK — SEE SHEET CS-502
- REFER TO ARCH PLANS FOR CONCRETE DESIGN
- STRAIGHT CONCRETE CURB — SEE 26-C1 ON SHEET CS-501
- CONCRETE CURB AND GUTTER — SEE 26-C2 ON SHEET CS-501
- SPILLING CURB/GUTTER — SEE SHEET CS-502

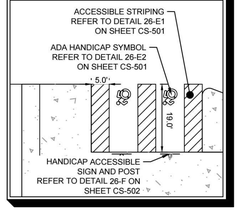
ADA INSET "A" SCALE: 1"=20'



ADA INSET "B" SCALE: 1"=20'



ADA INSET "C" SCALE: 1"=20'



Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CS-101 SITE PLAN November 17, 2023 10:20:15pm K:\NRC_CVA\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CS-101 SITE PLAN.dwg
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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

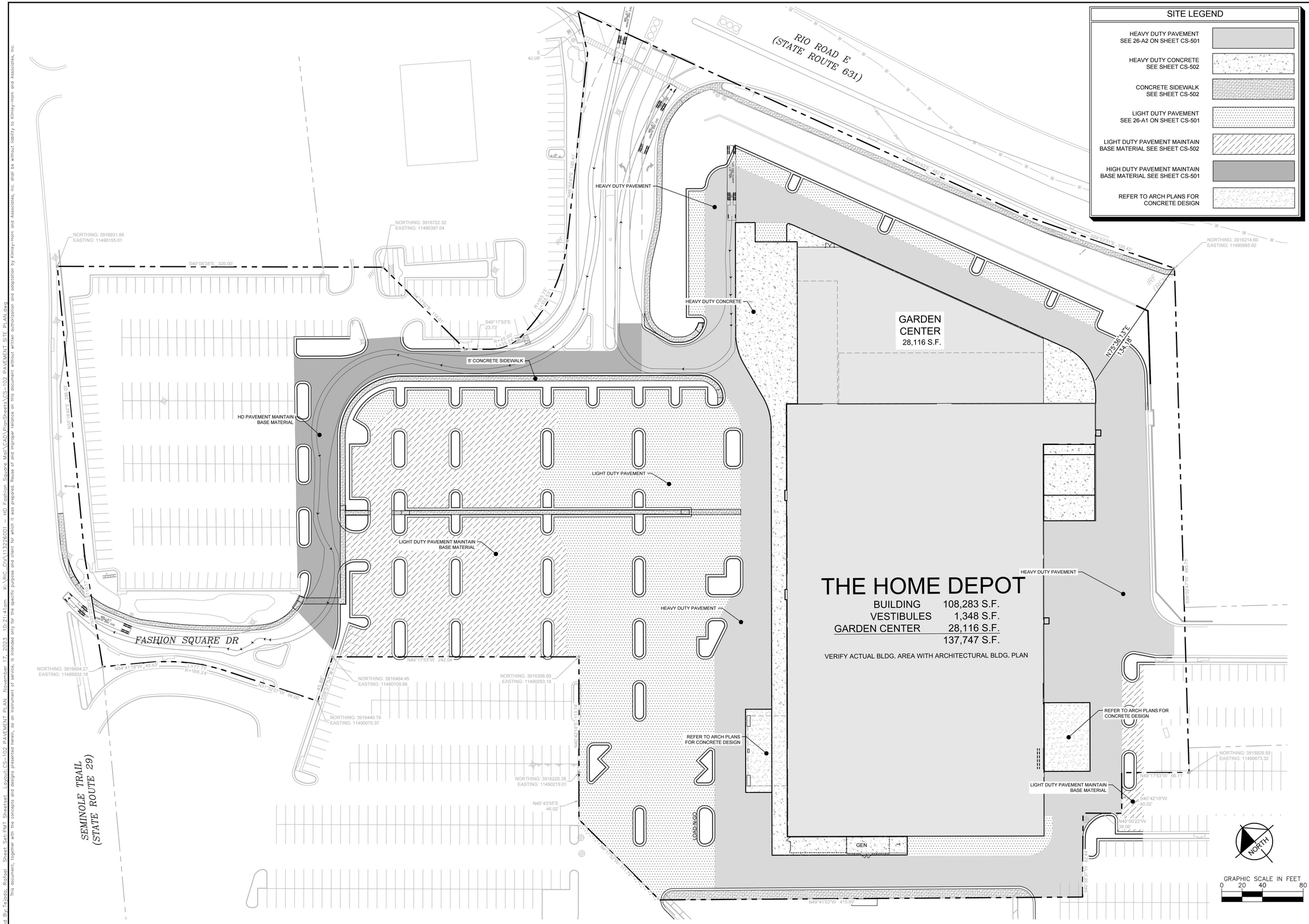
KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

SITE PLAN

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CS-101



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PROFESSIONAL ENGINEER
11/17/2023

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

PAVEMENT PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CS-102

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CS-102 PAVEMENT PLAN November 17, 2023 10:21:41am K:\VBC_Civil\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CS-102 PAVEMENT SITE PLAN.dwg
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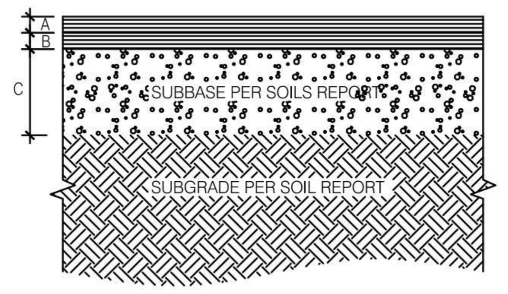
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LIGHT DUTY PAVING

A = 2" ASPHALT CONCRETE - SURFACE COURSE
B = NOT APPLICABLE
C = 6" AGGREGATE BASE COURSE

HEAVY DUTY PAVING

A = 1" ASPHALT CONCRETE - SURFACE COURSE
B = 2.5" ASPHALT CONCRETE - BASE COURSE
C = 8" AGGREGATE BASE COURSE



ASPHALT PAVING NOTES

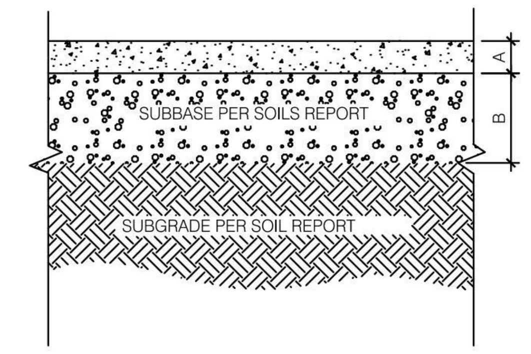
A. SUBGRADE COMPACTION: (PER GEOTECHNICAL REPORT AND HOME DEPOT CRITERIA)
B. BASE COURSE TO CONFORM TO VDOT STANDARDS FOR BASE COURSE COMPACTED TO 100% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY
C. ALL SUBGRADE AND PAVEMENT OPERATIONS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CURRENT VDOT STANDARDS AND SPECIFICATIONS MANUAL
D. PROVIDE TACK COAT BETWEEN BASE COURSE AND SURFACE COURSE IF VDOT SPECIFICATIONS REQUIRE OR CONDITIONS WARRANT.

26-A1 LIGHT DUTY PAVEMENT
SCALE: NTS

THIS DETAIL IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CIVIL ENGINEER TO VERIFY ALL LOCAL, STATE AND FEDERAL CODES PRIOR TO USE. THE HOME DEPOT AND WD PARTNERS ARE NOT LIABLE FOR ANY ERRORS OR OMISSIONS RELATED WITH THE USE OF THIS DETAIL.

HEAVY DUTY PAVING

A = 6.5" CONCRETE PAVEMENT SECTION
B = 4" AGGREGATE BASE COURSE



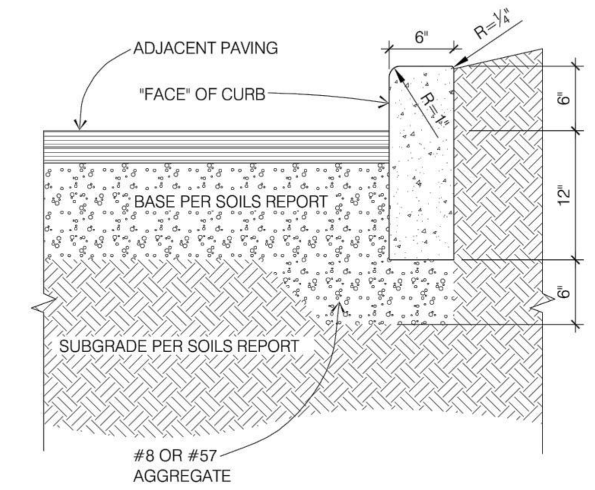
CONCRETE PAVING NOTES

A. SUBGRADE COMPACTION: (PER GEOTECHNICAL REPORT AND HOME DEPOT CRITERIA)
B. BASE COURSE TO CONFORM TO VDOT STANDARDS FOR BASE COURSE COMPACTED TO 100% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY
C. ALL SUBGRADE AND PAVEMENT OPERATIONS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CURRENT VDOT STANDARDS AND SPECIFICATIONS MANUAL
D. REINFORCE ACCORDING TO ACI RECOMMENDATIONS AND/OR GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
E. CONTROL JOINTS AND EXPANSION JOINTS SHALL BE ADDED PER ACI RECOMMENDATIONS AND/OR GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

DESIGNER NOTE: CONCRETE PARKING LOT PAVEMENT SHALL BE USED IN REGIONS WHERE REQUIRED BY LOCAL CONDITIONS, PRACTICE OR PER HOME DEPOT DIRECTION

26-A2 HEAVY DUTY CONCRETE PAVEMENT
SCALE: NTS

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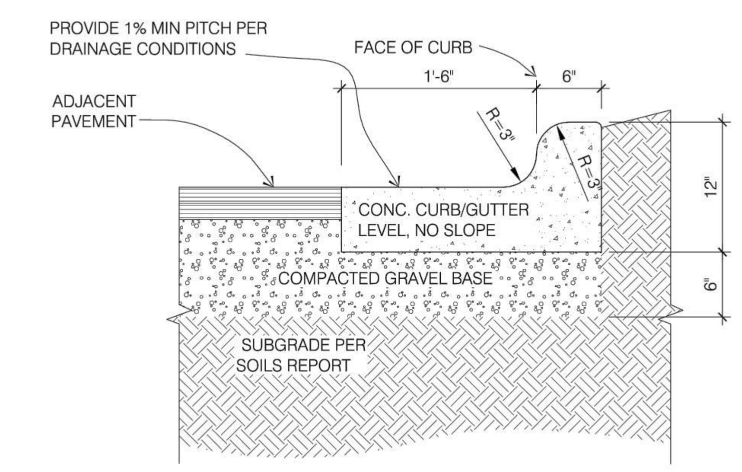


CURB NOTES

A. PROVIDE #6 x 18" LONG, SMOOTH DOWELS AT ALL EXPANSION JOINTS
B. 3/4" ELASTOMERIC EXPANSION JOINTS AT 30' MAXIMUM INTERVALS PER ACI RECOMMENDATIONS AND AT ALL RADII AND AT DRAINAGE STRUCTURES.
C. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI
D. LIGHT BROOM FINISH ON ALL SURFACES, ALL RADII TO BE TRUE ARCS.
E. PROVIDE (2) #4 BARS, 10'-0" LONG, CENTERED OVER ALL TRENCH CROSSINGS
F. PROVIDE (2) #6 x 2'-6" LONG BARS TO CONNECT EXISTING AND NEW CURBS
G. PROVIDE 4" PVC / HDPE WHEN RECOMMENDED BY THE GEOTECHNICAL REPORT. CONNECT TO THE STORM

26-C1 STRAIGHT CONCRETE CURB
SCALE: NTS

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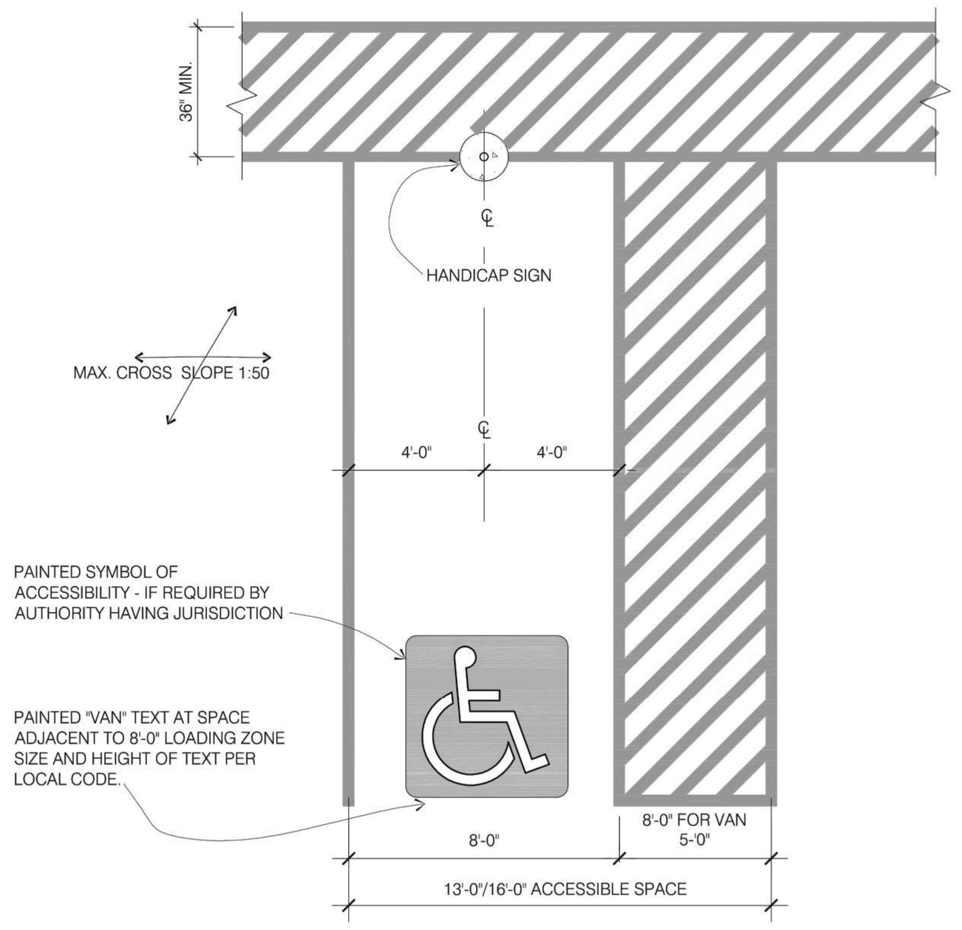
CURB AND GUTTER NOTES

A. PROVIDE #6 x 18" LONG, SMOOTH DOWELS AT ALL EXPANSION JOINTS
B. 3/4" EXPANSION JOINTS WITH BITUMINOUS SEALANT AT INTERVALS PER ACI RECOMMENDATIONS, AT ALL RADII AND AT DRAINAGE STRUCTURES.
C. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI
D. LIGHT BROOM FINISH ON ALL SURFACES, ALL RADII TO BE TRUE ARCS.
E. PROVIDE (2) #4 BARS, 10'-0" LONG, CENTERED OVER ALL TRENCH CROSSINGS
F. PROVIDE (2) #6 x 2'-6" LONG BARS TO CONNECT EXISTING AND NEW CURBS
G. GUTTER SHALL PITCH AS REQUIRED TO CONVEY DRAINAGE
H. PROVIDE 4" PVC / HDPE WHEN RECOMMENDED BY THE GEOTECHNICAL REPORT. CONNECT TO THE STORM

DESIGNER NOTE: USED ONLY WHEN DRAINAGE CONDITIONS, DEVELOPER REQUIREMENTS, OR JURISDICTION REQUIRES CURB AND GUTTER

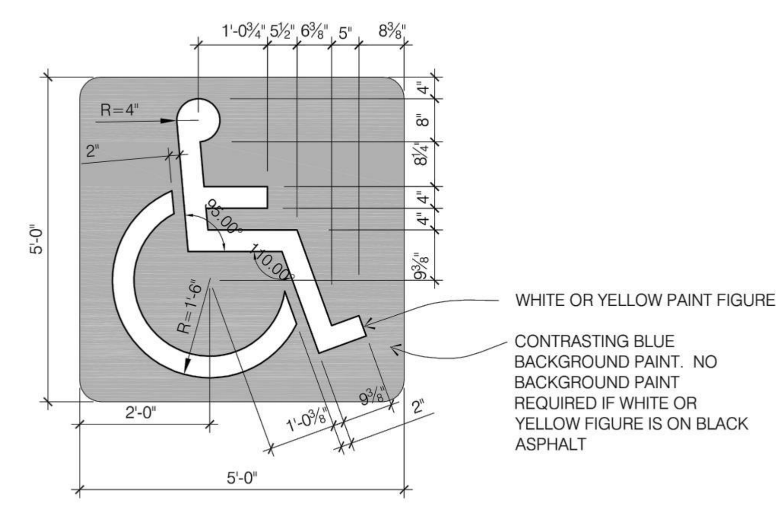
26-C2 CONCRETE CURB AND GUTTER
SCALE: NTS

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26-E1 TYPICAL ACCESSIBLE HANDICAP PARKING STALL
SCALE: NTS

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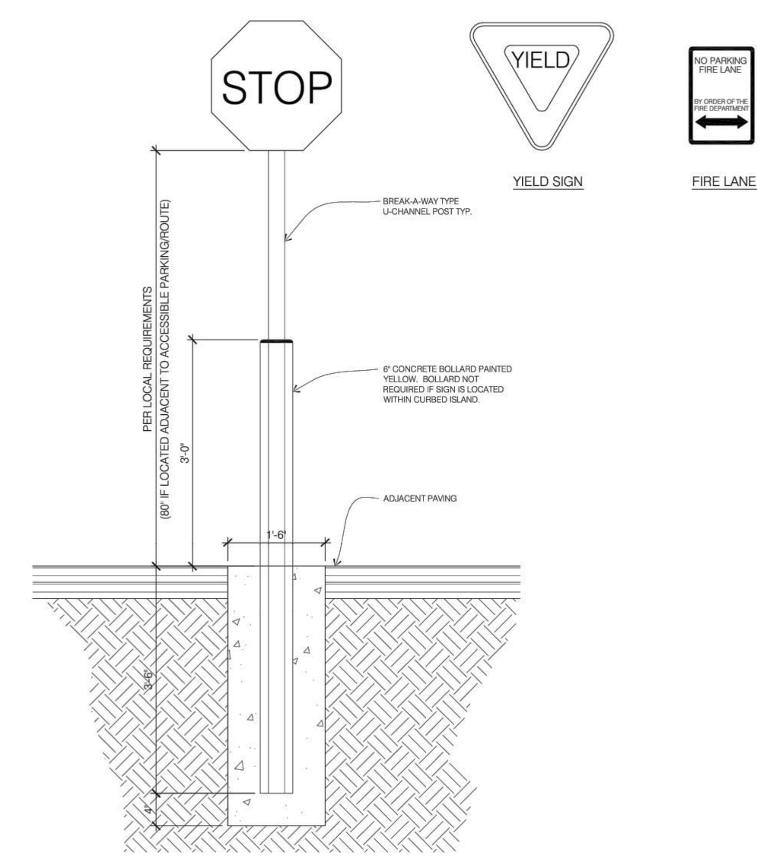
INTERNATIONAL SYMBOL OF ACCESSIBILITY NOTES

A. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.
B. BOTTOM OF SYMBOL TO BE LOCATED 2'-6" FROM ACCESS DRIVE, INTO PARKING SPACE.
C. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND.

DESIGNER NOTE: PAINTED SYMBOL ONLY NECESSARY WHERE REQUIRED BY LOCAL CODES.

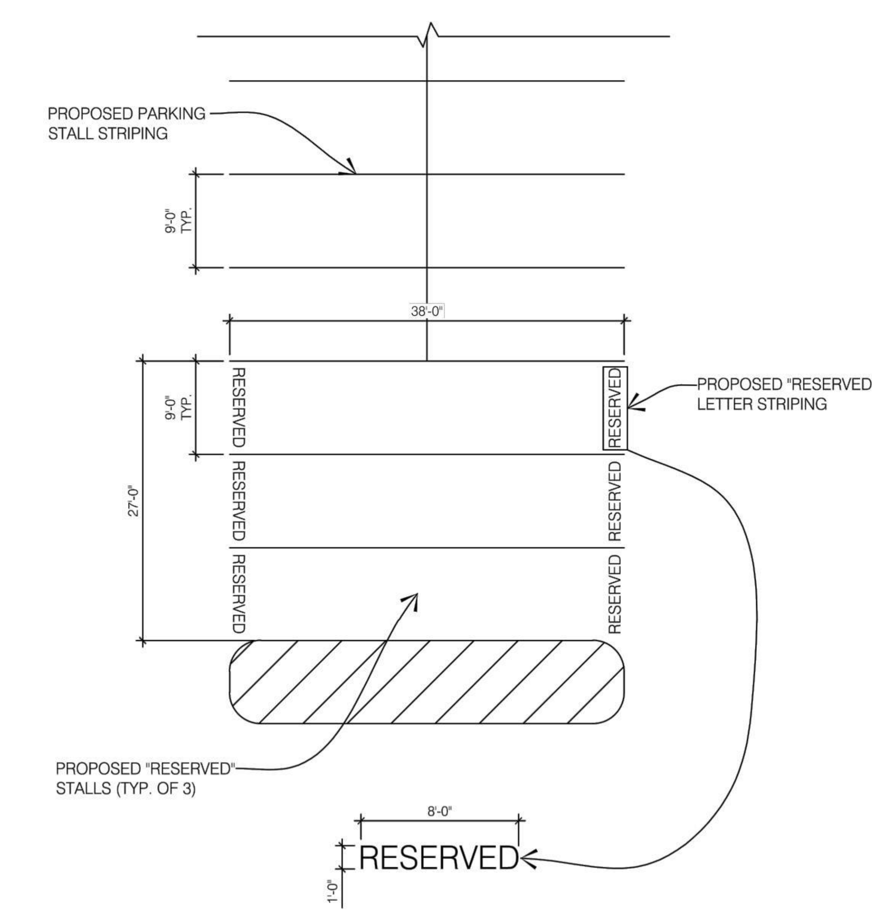
26-E2 HANDICAP SYMBOL
SCALE: NTS

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26-E3 TYPICAL TRAFFIC CONTROL SIGNAGE
SCALE: NTS

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26-E4 RESERVED PARKING DETAIL
SCALE: NTS

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No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

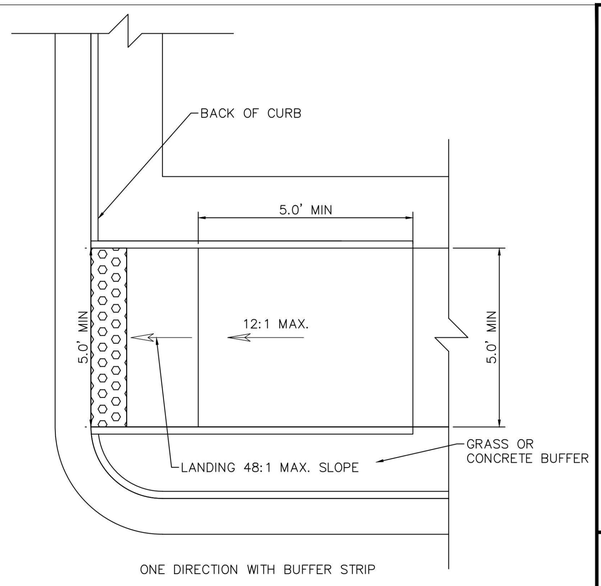
KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

SITE DETAILS

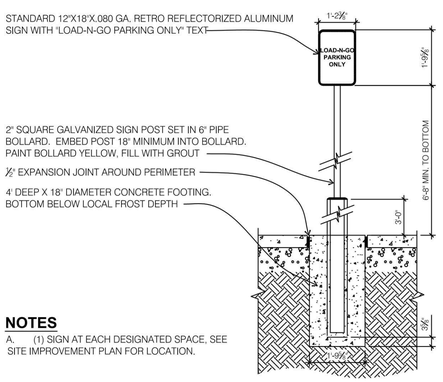
HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CS-501



SIDEWALK/CURB RAMP DETAIL



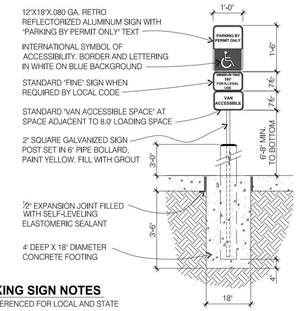
NOTES

A. (1) SIGN AT EACH DESIGNATED SPACE, SEE SITE IMPROVEMENT PLAN FOR LOCATION.

26-E5 LOAD-N-GO PARKING SIGN
SCALE: NTS

THIS DETAIL IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CIVIL ENGINEER TO VERIFY ALL LOCAL, STATE AND FEDERAL CODES PRIOR TO USE. THE HOME DEPOT AND WD PARTNERS ARE NOT LIABLE FOR ANY ERRORS OR OMISSIONS RELATED WITH THE USE OF THIS DETAIL.

*INCLUDE ON ALL ACCESSIBLE SIGN POLES A SIGN INDICATING MINIMUM FINE OF $(FINE) FOR ILLEGAL PARKING. REFER TO LOCAL CODES FOR FINE AMOUNT.

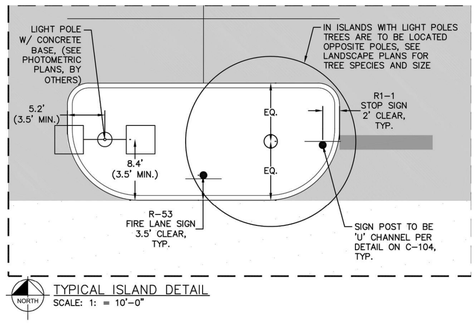


ACCESSIBILITY PARKING SIGN NOTES

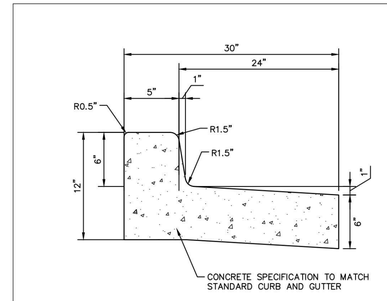
A. SPECIFIC CODE SHOULD BE REFERENCED FOR LOCAL AND STATE REQUIREMENTS.
B. (1) SIGN AT EACH ACCESSIBLE SPACE. SEE SITE IMPROVEMENT PLAN FOR LOCATION.

26-F HANDICAP PARKING / TRAFFIC CONTROL SIGNAGE
SCALE: NTS

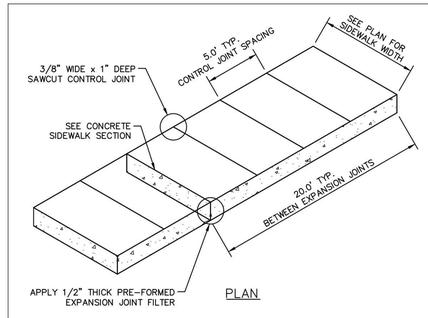
THIS DETAIL IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CIVIL ENGINEER TO VERIFY ALL LOCAL, STATE AND FEDERAL CODES PRIOR TO USE. THE HOME DEPOT AND WD PARTNERS ARE NOT LIABLE FOR ANY ERRORS OR OMISSIONS RELATED WITH THE USE OF THIS DETAIL.

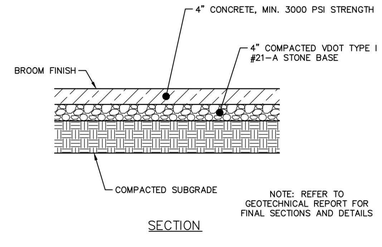


TYPICAL ISLAND DETAIL
SCALE: 1: = 10'-0"

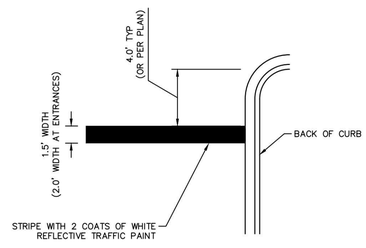


SPILLING CURB AND GUTTER (30")

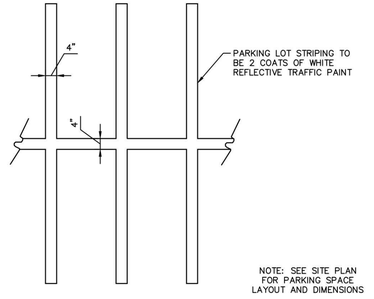




CONCRETE SIDEWALK



STOP BAR STRIPING



PARKING LOT STRIPING

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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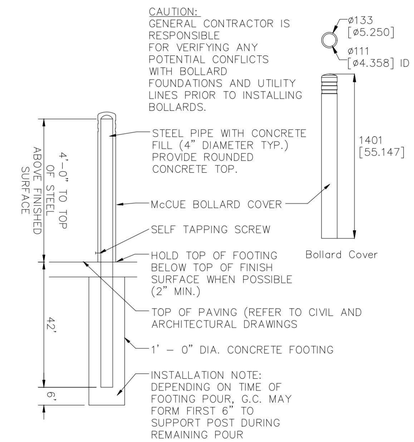
KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

SITE DETAILS

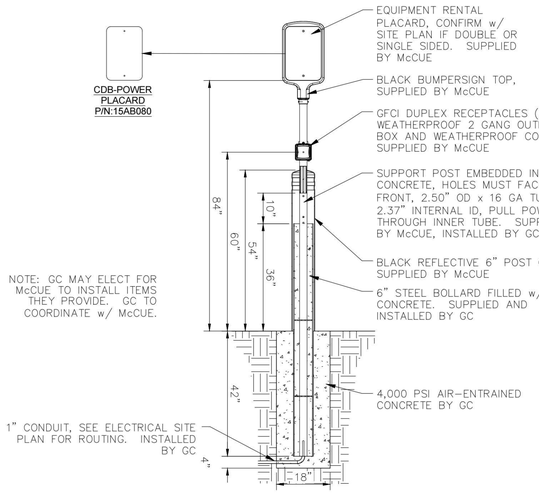
HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CS-502

Plotted By: Tejada, Rafael Sheet Set: PNT Sheetset Layout: CS-502 SITE DETAILS November 17, 2023 10:24:25am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CS-502 SITE DETAILS.dwg
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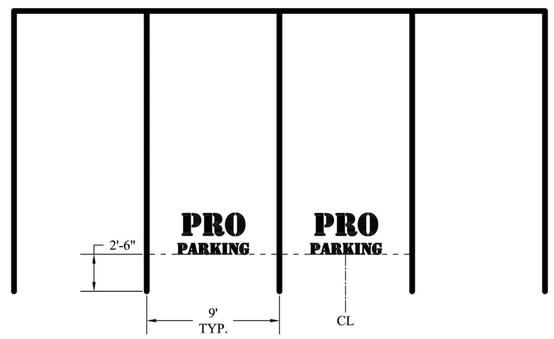


COMPACT POWER BOLLARD - TYPE A

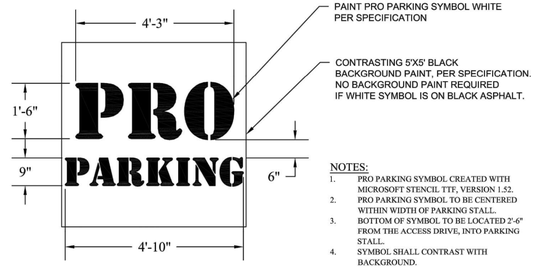


COMPACT POWER BOLLARD - TYPE N

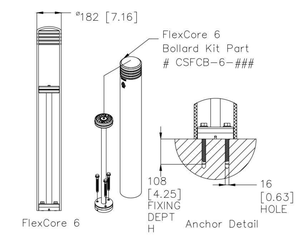
TYPICAL PRO PARKING STALL



TYPICAL PRO PARKING SYMBOL



NOTES:
1. PRO PARKING SYMBOL CREATED WITH MICROSOFT STENCIL TTF, VERSION 1.52.
2. PRO PARKING SYMBOL TO BE CENTERED WITHIN WIDTH OF PARKING STALL.
3. BOTTOM OF SYMBOL TO BE LOCATED 2'-6" FROM THE ACCESS DRIVE, INTO PARKING STALL.
4. SYMBOL SHALL CONTRAST WITH BACKGROUND.



COMPACT POWER BOLLARD - TYPE B
SCALE: NTS

No.	REVISIONS	DATE	BY
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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
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PROFESSIONAL ENGINEER

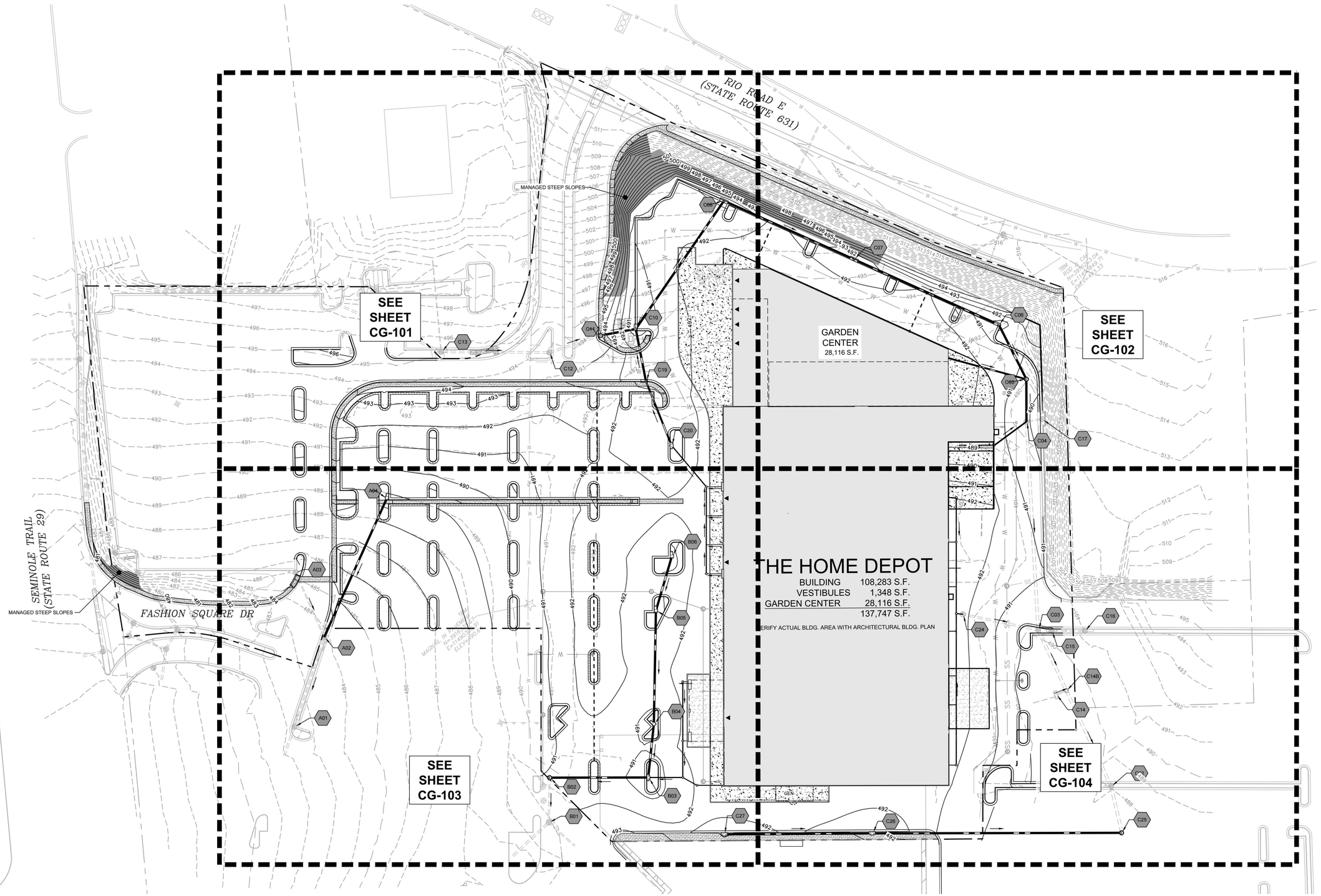
KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

SITE DETAILS

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CS-503

Plotted By:Tejada, Rafael Sheet Set:PWT Sheetset Layout:CS-503 SITE DETAILS November 17, 2023 10:24:37am K:\RIC_CIVIL\113226001 -HD Fashion Square Mall\CAD\PlanSheets\CS-502 SITE DETAILS.dwg
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Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-100 OVERALL GRADING PLAN November 17, 2023 10:26:26am K:\RIC_CIV\113226001 — HD, Fashion Square Mall\CAD\PlanSheets\CG-101 GRADING PLAN.dwg
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COMMONWEALTH OF VIRGINIA
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11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

OVERALL GRADING PLAN

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CG-100

GRADING LEGEND

TC:	TOP OF CURB ELEVATION
BC:	BOTTOM OF CURB ELEVATION
TW:	TOP OF WALL ELEVATION
BW:	BOTTOM OF WALL ELEVATION
TI:	TOP OF ISLAND ELEVATION
BI:	BOTTOM OF ISLAND ELEVATION
FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING

XXX — DRAINAGE STRUCTURE CALLOUT

RIDGE LINE

CONCRETE CURB AND GUTTER
SEE 26-C2 ON SHEET CS-501

SPILLING CURB AND GUTTER

MANAGED STEEP SLOPES

GRADING NOTES

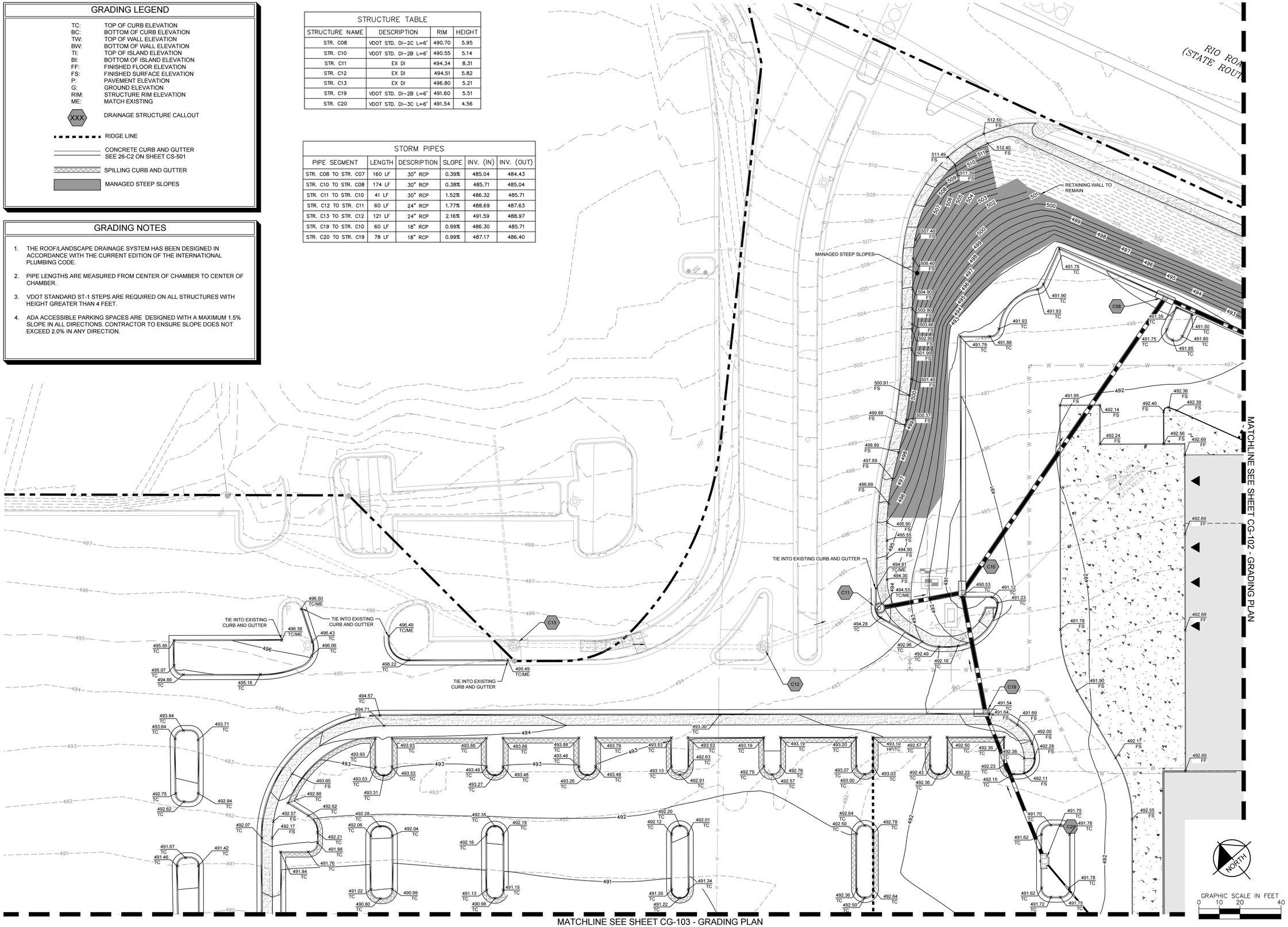
1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
4. ADA ACCESSIBLE PARKING SPACES ARE DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO ENSURE SLOPE DOES NOT EXCEED 2.0% IN ANY DIRECTION.

STRUCTURE TABLE

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. C08	VDOT STD. DI-2C L=6'	490.70	5.95
STR. C10	VDOT STD. DI-2B L=6'	490.55	5.14
STR. C11	EX DI	494.34	8.31
STR. C12	EX DI	494.51	5.82
STR. C13	EX DI	496.80	5.21
STR. C19	VDOT STD. DI-2B L=6'	491.60	5.51
STR. C20	VDOT STD. DI-3C L=6'	491.54	4.56

STORM PIPES

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. C08 TO STR. C07	160 LF	30" RCP	0.39%	485.04	484.43
STR. C10 TO STR. C08	174 LF	30" RCP	0.38%	485.71	485.04
STR. C11 TO STR. C10	41 LF	30" RCP	1.52%	486.32	485.71
STR. C12 TO STR. C11	60 LF	24" RCP	1.77%	488.69	487.63
STR. C13 TO STR. C12	121 LF	24" RCP	2.16%	491.59	488.97
STR. C19 TO STR. C10	60 LF	18" RCP	0.99%	486.30	485.71
STR. C20 TO STR. C19	78 LF	18" RCP	0.99%	487.17	486.40



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KHA PROJECT	113226001
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SCALE	AS SHOWN
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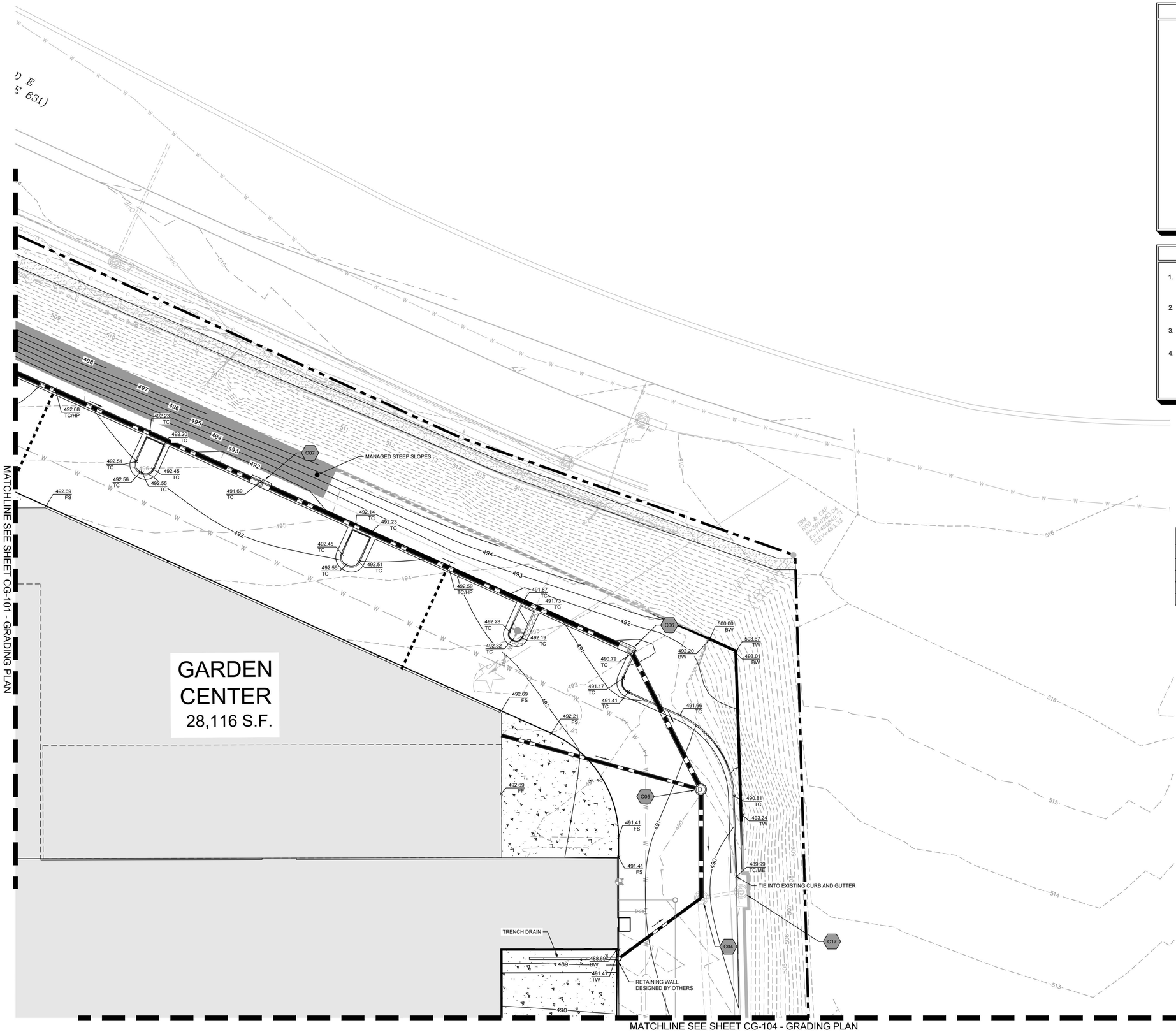
GRADING PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CG-101

Plotted By: Tajada, Rafael Sheet Set: PMT Sheetset Layout: CG-101 GRADING PLAN November 17, 2023 10:26:38am K:\VBC_CIVIL\113226001 — HD Fashion Square Mall\C4D\PlanSheets\CG-101 GRADING PLAN.dwg
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GRADING LEGEND

TC:	TOP OF CURB ELEVATION
BC:	BOTTOM OF CURB ELEVATION
TW:	TOP OF WALL ELEVATION
BW:	BOTTOM OF WALL ELEVATION
TI:	TOP OF ISLAND ELEVATION
BI:	BOTTOM OF ISLAND ELEVATION
FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING

XXX — DRAINAGE STRUCTURE CALLOUT

RIDGE LINE

CONCRETE CURB AND GUTTER
SEE 26-C2 ON SHEET CS-501

SPILLING CURB AND GUTTER

MANAGED STEEP SLOPES

GRADING NOTES

1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
4. ADA ACCESSIBLE PARKING SPACES ARE DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO ENSURE SLOPE DOES NOT EXCEED 2.0% IN ANY DIRECTION.

STRUCTURE TABLE

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. C04	EX MH	490.14	7.22
STR. C05	VDOT STD. MH-1	490.69	7.58
STR. C06	VDOT STD. DI-2B L=6'	490.33	6.91
STR. C07	VDOT STD. DI-2C L=6'	491.20	7.06
STR. C17	EX DI	490.03	2.65

STORM PIPES

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. C05 TO STR. C04	47 LF	36" RCP	0.40%	483.44	483.25
STR. C06 TO STR. C05	68 LF	30" RCP	0.40%	483.71	483.44
STR. C07 TO STR. C06	178 LF	30" RCP	0.40%	484.43	483.71
STR. C08 TO STR. C07	160 LF	30" RCP	0.39%	485.04	484.43

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11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

GRADING PLAN

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CG-102

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-102 GRADING PLAN November 17, 2023 10:26:51am K:\RIC_CIVIL\113226001 — HD Fashion Square Mall\Civil\Design\Sheets\CG-101 GRADING PLAN.dwg
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MATCHLINE SEE SHEET CG-101 - GRADING PLAN

MATCHLINE THIS SHEET

MATCHLINE SEE SHEET CG-104 - GRADING PLAN

TIE INTO EXISTING CURB AND GUTTER

2' CURB CUT

RIDGE LINE

4" DOWN SPOUT PIPE

8" ROOF DRAIN PIPE

8" CLEAN OUT INV.= 488.98'

MAGNETIC DECLINATION 7°W EPOCH: 2023.91 DATE: 11/30/2023

FASHION SQUARE DR

MANAGED STEEP SLOPES

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

STRUCTURE TABLE

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. A01	EX DI	482.85	3.12
STR. A02	EX DI	484.30	2.92
STR. A03	EX DI	485.98	2.79
STR. B01	EX MH	490.79	12.04
STR. B02	VDOT STD. MH-1	491.14	10.38
STR. B03	VDOT STD. DI-3B L=6'	491.03	7.06
STR. B04	VDOT STD. DI-1	491.26	6.89
STR. B05	MH	491.73	6.61
STR. B06	VDOT STD. DI-2C L=6'	491.81	6.14
STR. C27	MH	491.93	3.62

STORM PIPES

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. A02 TO STR. A01	106 LF	18" RCP	1.52%	481.59	479.98
STR. A03 TO STR. A02	79 LF	15" RCP	1.94%	483.38	481.84
STR. B02 TO STR. B01	50 LF	18" RCP	4.00%	480.97	478.96
STR. B03 TO STR. B02	111 LF	18" RCP	1.00%	484.69	483.58
STR. B04 TO STR. B03	60 LF	18" RCP	0.50%	485.09	484.79
STR. B06 TO STR. B05	64 LF	15" RCP	0.50%	486.69	486.37
STR. C27 TO STR. C26	166 LF	15" RCP	0.50%	488.50	487.67

GRADING LEGEND

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FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING
XXX	DRAINAGE STRUCTURE CALLOUT
	RIDGE LINE
	CONCRETE CURB AND GUTTER SEE 26-C2 ON SHEET CS-501
	SPILLING CURB AND GUTTER
	MANAGED STEEP SLOPES

GRADING NOTES

1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
4. ADA ACCESSIBLE PARKING SPACES ARE DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO ENSURE SLOPE DOES NOT EXCEED 2.0% IN ANY DIRECTION.

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DAVID B. ELLINGTON
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11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

GRADING PLAN

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CG-103

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-103 GRADING PLAN November 17, 2023 10:27:07am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CG-101 GRADING PLAN.dwg
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MATCHLINE SEE SHEET CG-102 - GRADING PLAN

FFE=492.69

THE HOME DEPOT

BUILDING	108,283 S.F.
VESTIBULES	1,348 S.F.
GARDEN CENTER	28,116 S.F.
	137,747 S.F.

VERIFY ACTUAL BLDG. AREA WITH ARCHITECTURAL BLDG. PLAN

MATCHLINE SEE SHEET CG-103 - GRADING PLAN

4" DOWN SPOUT PIPE
RC3
INV OUT: 489.69
492.69 FS
492.19 FS
8" ROOF DRAIN PIPE
RC2
INV OUT: 489.69
492.69 FF
492.69 FF
492.69 FF
8" ROOF DRAIN PIPE
GEN
492.69 FS
492.55 FS
C24
C03
C16
490.56 TC
490.77 TC/ME
TIE INTO EXISTING CURB AND GUTTER
490.62 TC
490.55 TC
490.90 TC/ME
C15
490.38 TC
490.40 TC
490.31 TC
490.35 TC
490.25 TC
490.32 TC
490.14 TC
490.18 TC
C14B
C14
490.41 TC
490.36 TC
490.58 TC
490.78 TC
490.56 TC
490.70 TC
491.25 TC
491.07 TC
490.94 TC
490.38 TC/ME
TIE INTO EXISTING CURB AND GUTTER
491.52 TC
491.43 TC
490.44 TC/ME
491.77 TC
491.55 TC
491.55 TC
C02
C26
491.75 TC
492.84 TC
C25

GRADING LEGEND

TC:	TOP OF CURB ELEVATION
BC:	BOTTOM OF CURB ELEVATION
TW:	TOP OF WALL ELEVATION
BW:	BOTTOM OF WALL ELEVATION
TI:	TOP OF ISLAND ELEVATION
BI:	BOTTOM OF ISLAND ELEVATION
FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING
XXX	DRAINAGE STRUCTURE CALLOUT
	RIDGE LINE
	CONCRETE CURB AND GUTTER SEE 26-C2 ON SHEET CS-501
	SPILLING CURB AND GUTTER

GRADING NOTES

1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
4. ADA ACCESSIBLE PARKING SPACES ARE DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO ENSURE SLOPE DOES NOT EXCEED 2.0% IN ANY DIRECTION.

STRUCTURE TABLE

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. C01	EX DI	489.87	6.46
STR. C02	EX MH	488.07	8.98
STR. C03	EX MH	490.56	9.57
STR. C14	EX DI	489.17	4.76
STR. C14B	MH	489.36	8.58
STR. C15	EX DI	490.61	3.79
STR. C16	EX DI	492.70	4.29
STR. C24	MH	492.20	3.38
STR. C25	MH	489.65	10.98
STR. C26	MH	491.77	4.39

STORM PIPES

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. C01 TO STR. C02	29 LF	12" RCP	10.00%	483.41	480.48
STR. C02 TO STR. C25	53 LF	36" RCP	0.80%	479.43	479.00
STR. C03 TO STR. C14B	75 LF	36" RCP	0.72%	481.32	480.78
STR. C04 TO STR. C03	234 LF	36" RCP	0.76%	483.25	481.47
STR. C14 TO STR. C14B	12 LF	15" RCP	15.00%	484.60	482.78
STR. C14B TO STR. C02	118 LF	36" RCP	0.72%	480.78	479.93
STR. C15 TO STR. C03	15 LF	12" RCP	28.55%	486.98	482.75
STR. C16 TO STR. C15	38 LF	12" RCP	4.00%	488.58	487.08
STR. C24 TO STR. C03	86 LF	24" RCP	2.98%	488.82	486.24
STR. C26 TO STR. C25	279 LF	15" RCP	1.33%	487.57	483.86
STR. C27 TO STR. C26	166 LF	15" RCP	0.50%	488.50	487.67

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

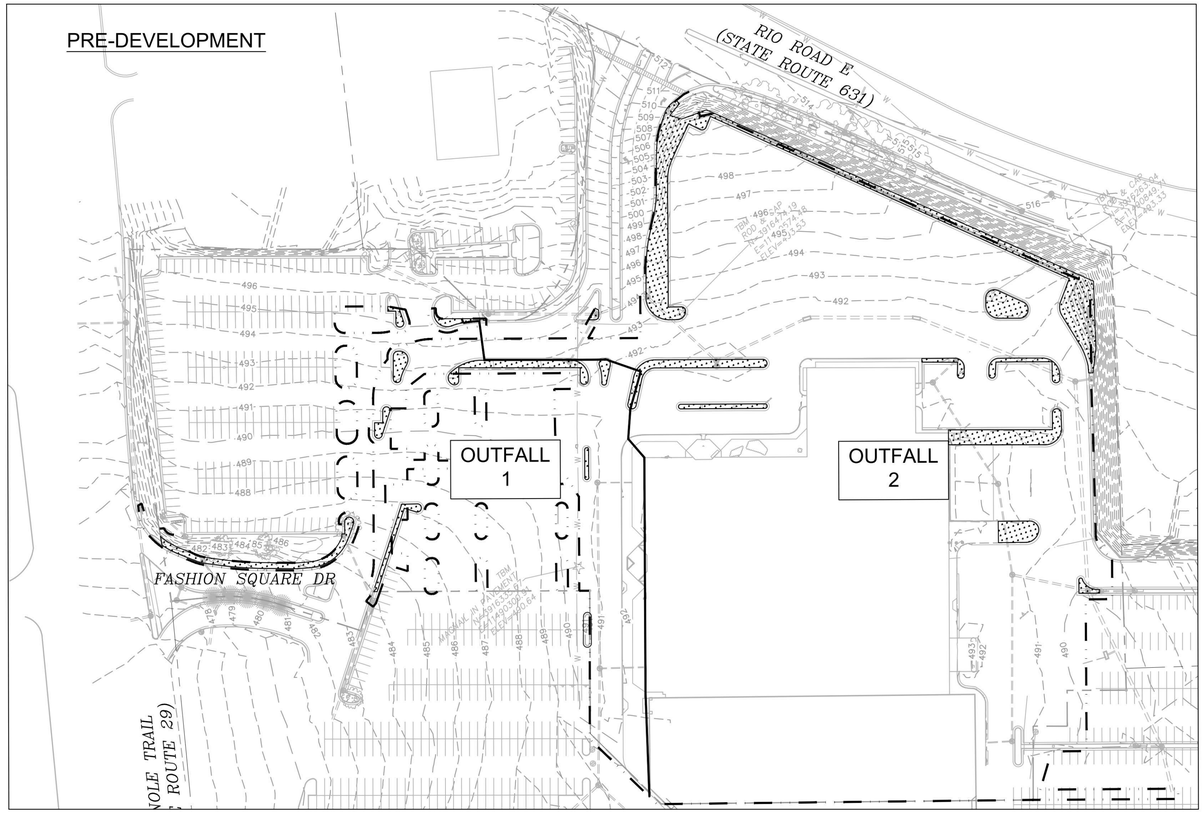
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DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

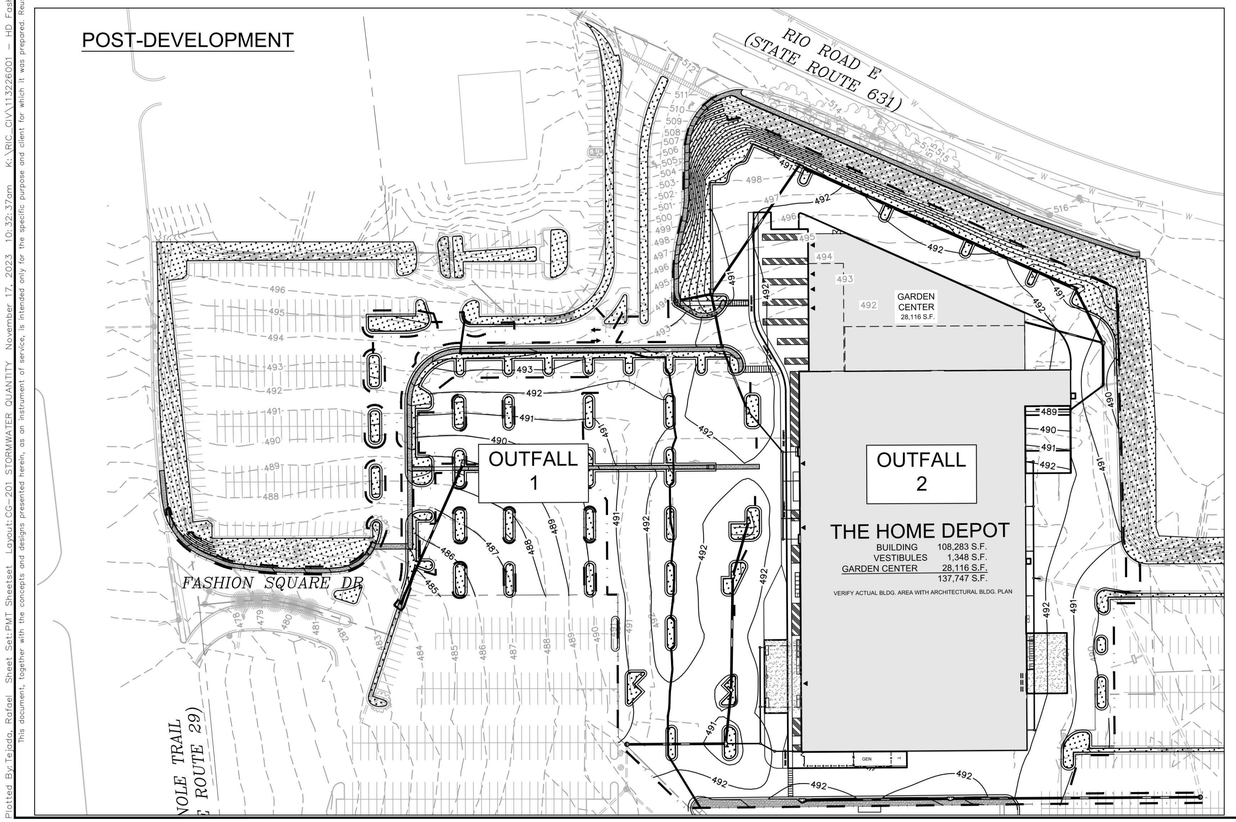
GRADING PLAN

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CG-104

Plotted By: Tajoha, Rafael Sheet Set: PMT Sheetset: Layout: CG-104 GRADING PLAN November 17, 2023 10:27:17am K:\RIC_CIV\113226001 — HD Fashion Square Mall\C4d\PlanSheets\CG-101 GRADING PLAN.dwg
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STORMWATER QUANTITY LEGEND

- IMPERVIOUS COVER
- MANAGED TURF
- LIMITS OF DISTURBANCE
- DRAINAGE DIVIDE

STORMWATER QUANTITY NARRATIVE

THE APPLICABLE AREA OF ANALYSIS INCLUDES LIMITS OF DISTURBANCE AS SHOWN ON THIS PLAN.

THIS SITE FALLS WITHIN THE VIRGINIA PART II-B STORMWATER REGULATIONS FOR WATER QUANTITY.

THE CONTRIBUTING DRAINAGE AREA WITHIN THE APPLICABLE AREA OF ANALYSIS TO THE OUTFALL IS 9.37 AC IN THE PRE-DEVELOPMENT AND POST-DEVELOPMENT CONDITIONS.

CHANNEL PROTECTION:
THE PROPOSED AND EXISTING MANMADE CONVEYANCE SYSTEM CONVEYS THE 2-YR POST DEVELOPMENT FLOW WITHOUT EROSION TO THE EXISTING STORM WATER POND.

FLOOD PROTECTION:
FLOOD PROTECTION COMPLIANCE IS MET WITH AN INCREASE IN PERVIOUS AREA IN THE POST DEVELOPMENT CONDITION. THE 10-YR POST-DEVELOPMENT FLOW WILL BE REDUCE FOR BOTH OUTFALLS BELOW THE PRE-DEVELOPMENT FLOW.

SEE THIS SHEET FOR CALCULATIONS.

QUANTITY SUMMARY

DRAINAGE AREA LABEL	INLET	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	MANAGED TURF AREA (AC.)	FOREST/ OPEN SPACE AREA (AC.)	C	CN	TIME OF CONC. Tc (min)	TREATMENT VOLUME Tv (cu ft)
Outfall 1		1.407	1.290	0.117	0.000	0.89	94.9	5.0	4,533
Outfall 2		7.983	7.612	0.371	0.000	0.92	96.3	5.0	26,519
Pre-Development		9.390	8.902	0.488	0.000	0.91	96.1	5.0	31,053
Outfall 1		1.453	1.168	0.285	0.000	0.80	90.7	5.0	4,235
Outfall 2		7.937	7.352	0.585	0.000	0.89	95.3	5.0	25,778
Post-Development		9.390	8.520	0.870	0.000	0.88	94.6	5.0	30,013

OUTFALL 1 SUMMARY

Pre-Development

Runoff Curve Number (CN)	95			
Drainage Area	1.41 acres	Storm Event	Runoff Volume V	Peak Flow q (cfs)
Impervious Area	*1.29 acres*			
Managed Turf	*0.12 acres*	1 -year	11,942	5.78
Forest/Open Space	*0.00 acres*	10 -year		11.08
Time of Concentration (Tc)	5.0 min			

Post-Development (Prior to Routing)

Runoff Curve Number (CN)	1 yr	91	Storm Event	Runoff Volume V	Peak Flow q (cfs)
Runoff Curve Number (CN)	10 yr	91			
Drainage Area		1.45 acres	1 -year	10,373	5.29
Impervious Area		*1.17 acres*	10 -year		10.86
Managed Turf		*0.29 acres*			
Forest/Open Space		*0.00 acres*			
Time of Concentration (Tc)		5.0 min			

Flood Protection Compliance

10-year storm		
Q_post	<	Q_pre
10.86	<	11.08
PASS		

OUTFALL 2 SUMMARY

Pre-Development

Runoff Curve Number (CN)	96			
Drainage Area	7.98 acres	Storm Event	Runoff Volume V	Peak Flow q (cfs)
Impervious Area	*7.61 acres*			
Managed Turf	*0.37 acres*	1 -year	70,255	33.46
Forest/Open Space	*0.00 acres*	10 -year		63.24
Time of Concentration (Tc)	5.0 min			

Post-Development (Prior to Routing)

Runoff Curve Number (CN)	1 yr	95	Storm Event	Runoff Volume V	Peak Flow q (cfs)
Runoff Curve Number (CN)	10 yr	95			
Drainage Area		7.94 acres	1 -year	67,426	32.56
Impervious Area		*7.35 acres*	10 -year		62.39
Managed Turf		*0.59 acres*			
Forest/Open Space		*0.00 acres*			
Time of Concentration (Tc)		5.0 min			

Flood Protection Compliance

10-year storm		
Q_post	<	Q_pre
62.39	<	63.24
PASS		

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

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11/17/2023

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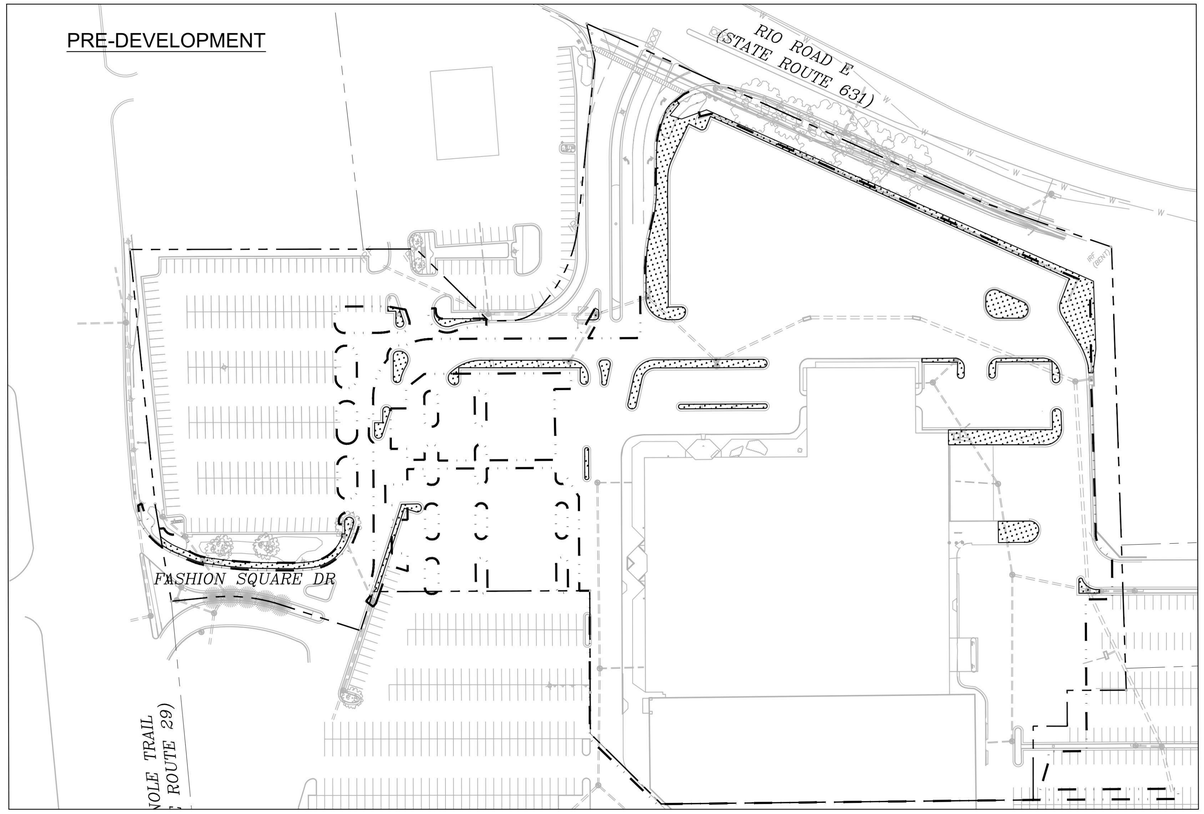
STORMWATER QUANTITY

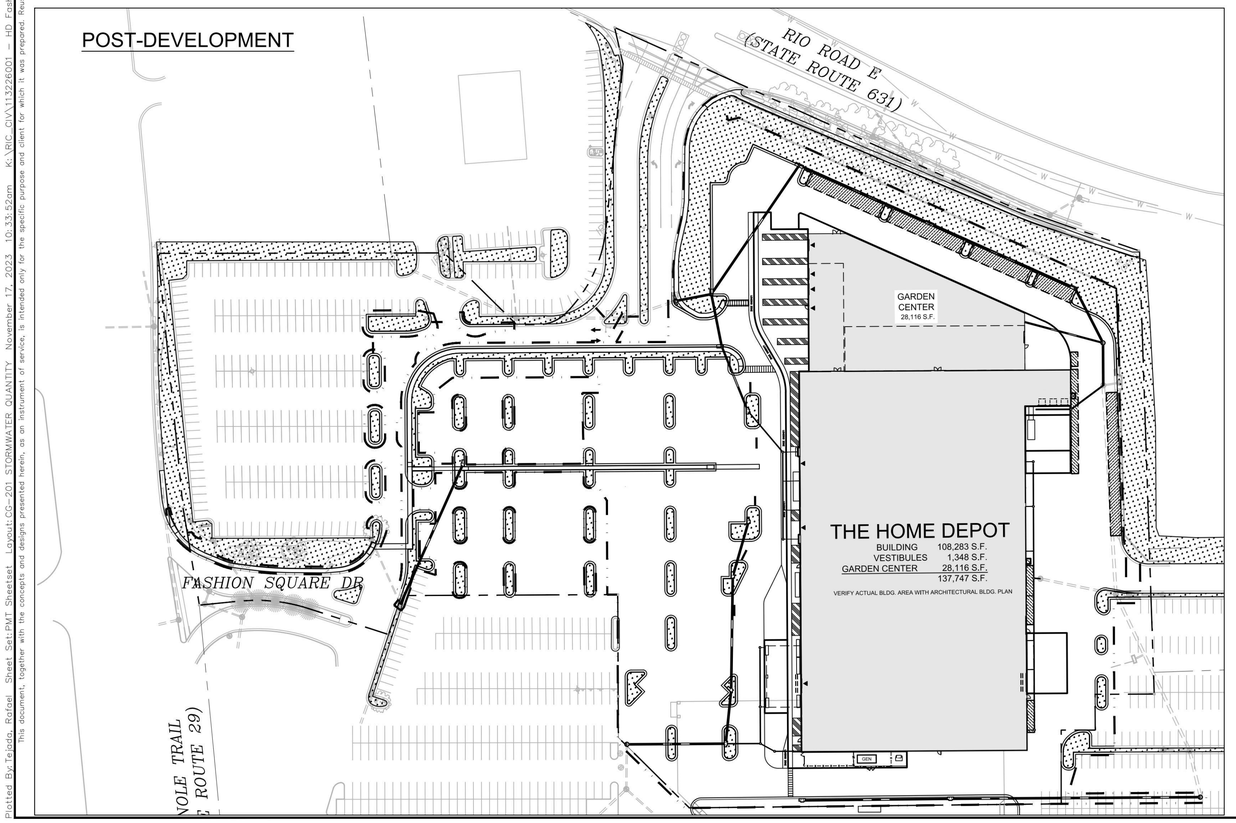
HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CG-201

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetlist Layout: CG-201 STORMWATER QUANTITY November 17, 2023 - 10:32:37am K:\RIC_CIV\113226001 – HD Fashion Square Mall\CAD\PlanSheets\CG-201 STORMWATER QUANTITY.dwg
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STORMWATER QUALITY LEGEND	
IMPERVIOUS COVER	
MANAGED TURF	
LIMITS OF DISTURBANCE	

STORMWATER QUALITY NARRATIVE

THE CHANGE IN LAND COVER GENERATES 3.25 LB/YEAR OF PHOSPHORUS PER YEAR. THE REQUIREMENT WILL BE SATISFIED THROUGH SHEET THE PURCHASE OF NUTRIENT OFFSET CREDITS PER 9VAC25-870-69.B.3.

Project Name: Home Depot Albermarle County
Date: 1/9/2023
Linear Development Project? No

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area *(acres)* → 9.39

Maximum reduction required:	*20%*
The site's net increase in impervious cover (acres) is:	*0*
Post-Development TP Load Reduction for Site (lb/yr):	*3.25*

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed forest/open space		0.00			0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be		0.49			0.49
Impervious Cover (acres)		8.90			8.90
					9.39

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested		0.00			0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be		0.87			0.87
Impervious Cover (acres)		8.52			8.52
Area Check	OK.	OK.	OK.	OK.	9.39

Site Results (Water Quality Compliance)

Area Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
FOREST/OPEN SPACE (ac)	0.00	0.00	0.00	0.00	0.00	OK.
IMPERVIOUS COVER (ac)	0.00	0.00	0.00	0.00	0.00	OK.
IMPERVIOUS COVER TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK.
MANAGED TURF AREA (ac)	0.00	0.00	0.00	0.00	0.00	OK.
MANAGED TURF AREA TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK.
AREA CHECK	OK.	OK.	OK.	OK.	OK.	

Site Treatment Volume (ft^3) 30,013

Runoff Reduction Volume and TP By Drainage Area

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
RUNOFF REDUCTION VOLUME ACHIEVED (ft^3)	0	0	0	0	0	0
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TP LOAD REMAINING (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00

Total Phosphorus

FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	18.86
TP LOAD REDUCTION REQUIRED (lb/yr)	3.25
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00
TP LOAD REMAINING (lb/yr):	18.86
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr):	3.25

Total Nitrogen (For Information Purposes)

POST-DEVELOPMENT LOAD (lb/yr)	134.90
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	0.00
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	134.90

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

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11/17/2023

KHA PROJECT 113226001
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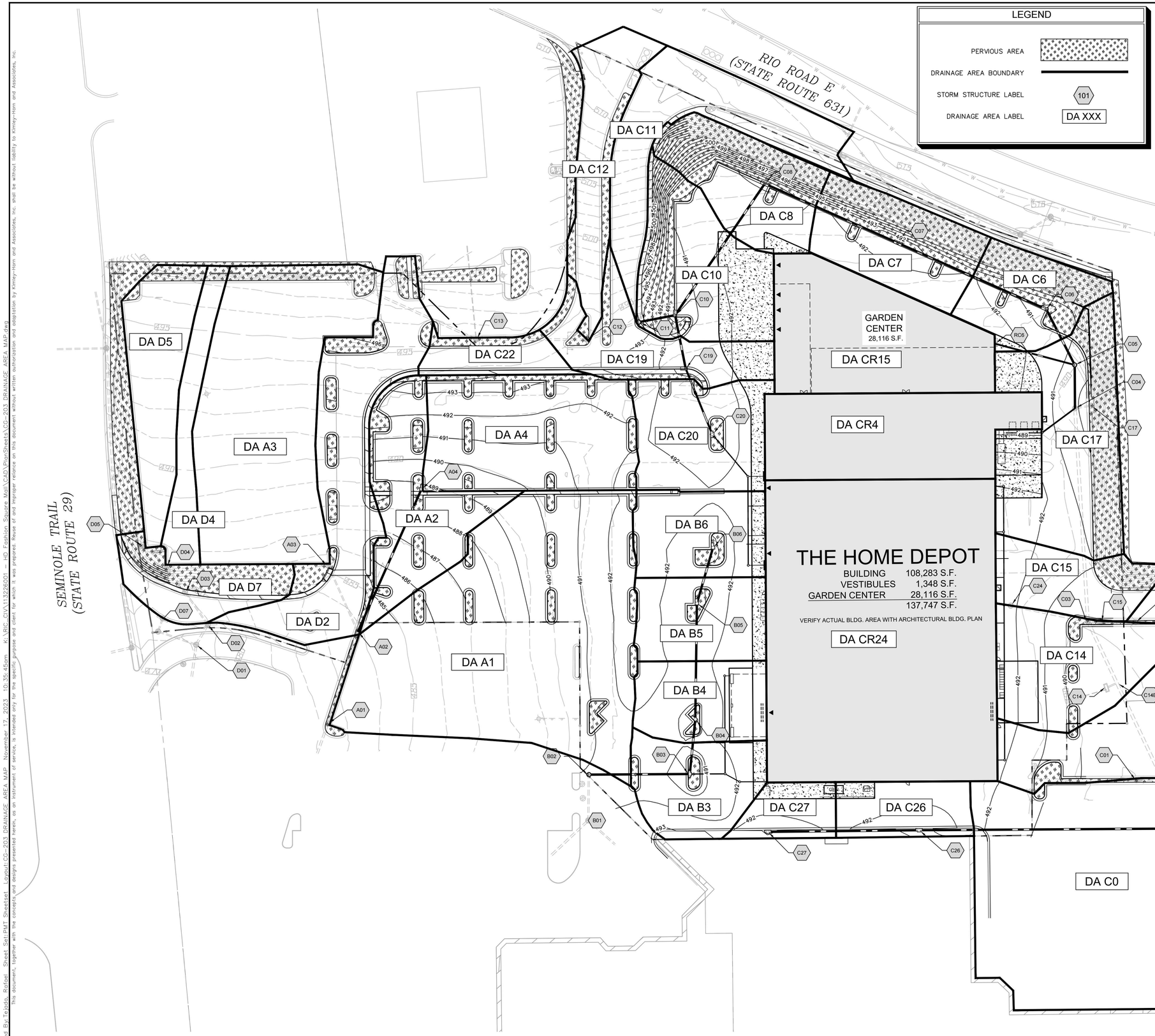
STORMWATER QUALITY

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CG-202

Plotted By:Telpis, Ardiel Sheet Set:PMT Sheetset Layout:CG-201 STORMWATER QUANTITY November 17, 2023 10:33:52am K:\RIC_CV\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CG-202 STORMWATER QUALITY.dwg
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LEGEND

PERVIOUS AREA	
DRAINAGE AREA BOUNDARY	
STORM STRUCTURE LABEL	101
DRAINAGE AREA LABEL	DA XXX

DRAINAGE AREAS

DRAINAGE AREA LABEL	INLET	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	MANAGED TURF AREA (AC.)	C	CN	TIME OF CONC. Tc (min)
A01	A01	1.641	1.579	0.062	0.92	96.6	5.0
A02	A02	0.450	0.379	0.071	0.83	92.2	5.0
A03	A03	1.072	1.005	0.067	0.90	95.7	5.0
A04	A04	0.663	0.597	0.066	0.88	94.3	5.0
B03	B03	0.319	0.304	0.015	0.91	96.3	5.0
B04	B04	0.286	0.280	0.006	0.93	97.2	5.0
B05	B05	0.299	0.288	0.011	0.92	96.6	5.0
B06	B06	0.312	0.293	0.019	0.90	95.7	5.0
C00	C00	1.631	1.611	0.020	0.94	97.5	5.0
C01	C01	0.931	0.906	0.025	0.93	97.0	5.0
C06	C06	0.296	0.125	0.171	0.52	76.6	5.0
C07	C07	0.395	0.200	0.195	0.58	79.7	5.0
C08	C08	0.387	0.181	0.206	0.55	78.3	5.0
C10	C10	0.488	0.345	0.143	0.73	87.2	5.0
C11	C11	0.493	0.490	0.003	0.95	97.8	5.0
C12	C12	0.334	0.280	0.054	0.83	92.0	5.0
C14	C14	0.464	0.443	0.021	0.92	96.3	5.0
C15	C15	0.270	0.218	0.052	0.81	90.9	5.0
C16	C16	0.299	0.193	0.106	0.68	84.9	5.0
C17	C17	0.690	0.473	0.217	0.71	86.4	5.0
C19	C19	0.338	0.283	0.055	0.83	92.0	5.0
C20	C20	0.395	0.376	0.019	0.91	96.2	5.0
C22	C22	0.146	0.119	0.027	0.81	91.2	5.0
C26	C26	0.207	0.207	0.000	0.95	98.0	5.0
C27	C27	0.139	0.139	0.000	0.95	98.0	5.0
CR15	C15	0.645	0.645	0.000	0.95	98.0	5.0
CR17	C17	0.596	0.596	0.000	0.95	98.0	5.0
CR24	C24	1.918	1.918	0.000	0.95	98.0	5.0
D02	D02	0.702	0.577	0.125	0.82	91.4	5.0
D04	D04	0.190	0.181	0.009	0.91	96.2	5.0
D05	D05	0.370	0.340	0.030	0.94	95.0	5.0
D07	D07	0.249	0.117	0.132	0.55	78.4	5.0

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11/17/2023

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	DHL
DRAWN BY	RAT
CHECKED BY	DBE

DRAINAGE AREA MAP

HOME DEPOT

VA

ALBEMARLE

SHEET NUMBER
CG-203

Plotted By: Tejada, Ardiel Sheet Set: PMT Sheetset Layout: CG-203 DRAINAGE AREA MAP November 17, 2023 10:35:45am K:\RIC_CIV\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CG-203 DRAINAGE AREA MAP.dwg
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VDOT LD-347 **10 -year storm**

Angle	0	15	20	25	30	40	50	60	70	80	90
K	0	0.19	0.25	0.30	0.35	0.43	0.50	0.56	0.61	0.66	0.70

INLET	0.8D + INV (OUT)	ACTUAL OUTLET WSE	DESIGN OUTLET WSE	D_o	Q_o	L_o	S_{fo}	H_f	JUNCTION LOSS													1.3 H_t	IS-1?	0.5 H_t	FINAL H	INLET WSE	F/L ELEV
									V_o	H_o	Q_t	V_t	Q_tV_t	$\frac{V_t^2}{2g}$	H_t	Angle	H_a	H_t	Surface Runoff Factor?								
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)		(17)		(18)	(19)	(20)	(21)
D01	473.97	473.97	473.97	24	8.13	212	0.0013	0.27	3.85	0.06	7.28	2.81	20.46	0.12	0.04	30	0.04	0.14	NO	0.14	YES	0.07	0.35	474.32	477.89
D02	474.53	474.32	474.53	24	7.28	25	0.0010	0.03	2.81	0.03	3.48	7.96	27.70	0.98	0.34	60	0.55	0.93	YES	1.20	YES	0.60	0.63	475.16	479.14
D03	474.54	475.16	475.16	15	3.48	44	0.0029	0.13	7.96	0.25	3.48	15.51	53.97	3.74	1.31	0	0.00	1.55	NO	1.55	YES	0.78	0.90	476.06	479.03
D04	476.00	476.06	476.06	15	3.48	35	0.0029	0.10	15.51	0.93	2.34	5.88	13.76	0.54	0.19	15	0.10	1.22	YES	1.59	YES	0.80	0.90	476.96	486.27
D05	482.90	476.96	482.90	15	2.34	33	0.0013	0.04	5.88	0.13	0.00	0.00	0.00	0.00	0.00	0	0.00	0.13	YES	0.17	YES	0.09	0.13	483.03	486.78
D06	474.03	474.32	474.32	15	0.92	44	0.0002	0.01	3.00	0.03	0.92	4.74	4.36	0.35	0.12	90	0.24	0.40	NO	0.40	YES	0.20	0.21	474.52	478.02
D07	475.26	474.52	475.26	15	0.92	15	0.0002	0.00	4.74	0.09	0.00	0.00	0.00	0.00	0.00	0	0.00	0.09	YES	0.11	YES	0.06	0.06	475.32	478.00
A01	478.78	478.78	478.78	21	22.21	112	0.0197	2.20	10.87	0.46	12.59	7.12	89.64	0.79	0.28	25	0.24	0.97	YES	1.26	YES	0.63	2.83	481.61	482.35
A02	481.18	481.61	481.61	18	12.59	106	0.0144	1.52	7.12	0.20	6.48	7.98	51.71	0.99	0.35	40	0.43	0.97	YES	1.26	YES	0.63	2.15	483.76	483.80
A03	482.84	483.76	483.76	15	6.48	79	0.0101	0.80	7.98	0.25	0.00	0.00	0.00	0.00	0.00	0	0.00	0.25	YES	0.32	YES	0.16	0.96	484.72	485.48
A04	482.74	483.76	483.76	15	3.92	171	0.0037	0.63	5.52	0.12	0.00	0.00	0.00	0.00	0.00	0	0.00	0.12	YES	0.15	YES	0.08	0.71	484.47	488.86
B02	480.16	479.71	480.16	18	7.01	50	0.0045	0.22	10.69	0.44	7.11	6.40	45.50	0.64	0.22	90	0.45	1.11	NO	1.11	YES	0.56	0.78	480.94	490.64
B03	484.78	480.94	484.78	18	7.11	111	0.0046	0.51	6.40	0.16	5.31	4.57	24.27	0.32	0.11	80	0.21	0.49	YES	0.63	YES	0.32	0.82	485.60	490.54
B04	485.99	485.60	485.99	18	5.31	60	0.0026	0.15	4.57	0.08	3.68	4.14	15.24	0.27	0.09	0	0.00	0.17	YES	0.23	YES	0.11	0.27	486.26	490.76
B05	486.19	486.26	486.26	15	3.68	127	0.0032	0.41	4.14	0.07	1.89	3.54	6.69	0.19	0.07	15	0.04	0.17	YES	0.22	YES	0.11	0.52	486.78	491.24
B06	486.93	486.78	486.93	15	1.89	64	0.0009	0.05	3.54	0.05	0.00	0.00	0.00	0.00	0.00	0	0.00	0.05	YES	0.06	YES	0.03	0.09	487.02	491.31
C25	480.23	480.23	480.23	36	52.07	147	0.0061	0.90	9.51	0.35	50.45	9.47	477.76	1.39	0.49	0	0.00	0.84	NO	0.84	YES	0.42	1.31	481.54	489.15
C26	484.86	481.54	484.86	15	2.11	279	0.0011	0.30	5.22	0.11	0.89	2.88	2.56	0.13	0.05	0	0.00	0.15	YES	0.20	YES	0.10	0.40	485.26	491.27
C27	488.67	485.26	488.67	15	0.89	166	0.0002	0.03	2.88	0.03	0.00	0.00	0.00	0.00	0.00	0	0.00	0.03	YES	0.04	YES	0.02	0.05	488.72	491.43
C02	481.40	481.54	481.54	36	50.45	53	0.0057	0.31	9.47	0.35	46.07	8.92	410.94	1.24	0.43	80	0.82	1.60	NO	1.60	YES	0.80	1.10	482.65	487.58
C01	481.28	482.65	482.65	12	5.82	30	0.0267	0.79	14.43	0.81	0.00	0.00	0.00	0.00	0.00	0	0.00	0.81	YES	1.05	YES	0.53	1.31	483.96	489.37
C14B	482.33	482.65	482.65	36	46.07	118	0.0048	0.57	8.92	0.31	43.95	8.85	388.96	1.22	0.43	90	0.85	1.59	NO	1.59	YES	0.79	1.36	484.01	488.86
C14	483.78	484.01	484.01	15	2.87	12	0.0020	0.02	13.51	0.71	0.00	0.00	0.00	0.00	0.00	0	0.00	0.71	YES	0.92	YES	0.46	0.48	484.49	488.67
C03	483.18	484.01	484.01	36	43.95	75	0.0043	0.33	8.85	0.30	32.00	8.42	269.44	1.10	0.39	90	0.77	1.46	NO	1.46	YES	0.73	1.06	485.06	490.08
C24	487.84	485.06	487.84	24	12.24	86	0.0029	0.25	11.00	0.47	0.00	0.00	0.00	0.00	0.00	0	0.00	0.47	YES	0.61	YES	0.31	0.56	488.40	491.70
C15	483.55	485.06	485.06	12	2.82	15	0.0063	0.10	17.14	1.14	1.37	7.00	9.59	0.76	0.27	0	0.00	1.41	YES	1.83	YES	0.91	1.01	486.07	490.18
C16	487.88	486.07	487.88	12	1.37	38	0.0015	0.06	7.00	0.19	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	YES	0.25	YES	0.12	0.18	488.06	492.20
C04	483.87	485.06	485.06	36	32.00	234	0.0023	0.54	8.42	0.28	3.29	11.02	36.26	1.89	0.66	80	1.24	2.18	YES	2.83	YES	1.42	1.96	487.02	489.64
C17	486.92	487.02	487.02	12	3.29	18	0.0085	0.15	11.02	0.47	0.00	0.00	0.00	0.00	0.00	0	0.00	0.47	YES	0.61	YES	0.31	0.46	487.47	489.53
C05	485.65	487.02	487.02	36	26.22	48	0.0015	0.07	3.71	0.05	22.94	4.67	107.13	0.34	0.12	25	0.10	0.27	YES	0.36	YES	0.18	0.25	487.27	490.19
C06	485.44	487.27	487.27	30	22.94	69	0.0031	0.21	4.67	0.08	22.65	4.61	104.42	0.33	0.12	40	0.14	0.34	NO	0.34	YES	0.17	0.39	487.65	490.33
C07	485.71	487.65	487.65	30	22.65	178	0.0031	0.54	4.61	0.08	21.83	4.45	97.14	0.31	0.11	0	0.00	0.19	NO	0.19	YES	0.10	0.64	488.29	491.20
C08	486.43	488.29	488.29	30	21.83	154	0.0028	0.44	4.45	0.08	21.16	4.31	91.20	0.29	0.10	80	0.19	0.37	NO	0.37	YES	0.18	0.62	488.91	490.76
C10	487.04	488.91	488.91	30	21.16	175	0.0027	0.47	4.31	0.07	15.66	3.19	49.96	0.16	0.06	40	0.07	0.20	YES	0.25	YES	0.13	0.59	489.51	490.05
C11	487.71	489.51	489.51	30	15.66	41	0.0015	0.06	3.19	0.04	12.63	9.16	115.69	1.30	0.46	15	0.25	0.74	YES	0.97	YES	0.48	0.54	490.05	493.85
C12	489.23	490.05	490.05	24	12.63	60	0.0031	0.19	9.16	0.33	10.11	9.29	93.92	1.34	0.47	20	0.34	1.13	YES	1.47	YES	0.73	0.92	490.97	494.01
C13	490.57	490.97	490.97	24	10.11	121	0.0020	0.24	9.29	0.34	0.00	0.00	0.00	0.00	0.00	0	0.00	0.34	YES	0.44	YES	0.22	0.46	491.43	496.30
C22	490.03	490.97	490.97	15	0.79	38	0.0001	0.01	4.21	0.07	0.00	0.00	0.00	0.00	0.00	0	0.00	0.07	YES	0.09	YES	0.04	0.05	491.02	492.93
C19	486.91	489.51	489.51	18	4.11	60	0.0015	0.09	2.32	0.02	2.41	1.37	3.30	0.03	0.01	15	0.01	0.04	YES	0.05	YES	0.02	0.11	489.62	491.10
C20	487.60	489.62	489.62	18	2.41	78	0.0005	0.04	1.37	0.01	0.00	0.00	0.00	0.00	0.00	0	0.00	0.01	YES	0.01	YES	0.00	0.05	489.67	491.04

Storm Drain Design Calculations **10 -year storm**

VDOT LD-229 **Manning n =** 0.013

FROM POINT	TO POINT	DRAINAGE AREA	RUNOFF COEFFICIENT	CA		INLET TIME	RAINFALL	RUNOFF	INVERT ELEVATIONS		LENGTH	SLOPE	SIZE	PIPE CAPACITY	Q / Q_f	VELOCITY	FLOW TIME	
				inlet	accum				upper end	lower end							incr	accum
		acres	C			min	in/hr	cfs	ft	ft	ft	%	in	cfs	%	fps	min	
A03	A02	1.07	0.90	0.965	0.965	5.00	6.67	6.48	483.38	481.84	79	1.90%	15	9.00	72%	7.98	0.17	5.00
A04	A02	0.663	0.880	0.583	0.583	5.00	6.67	3.92	483.45	481.74	171	1.00%	15	6.46	61%	5.52	0.52	5.00
A02	A01	0.450	0.830	0.374	1.922	5.00	6.50	12.59	481.59	479.98	106	1.50%	18	12.96	97%	7.12	0.25	5.52
A01	A05	1.641	0.920	1.510	3.431	5.00	6.42	22.21	479.73	477.38	112	2.10%	21	22.96	97%	10.87	0.17	5.77
D07	D06	0.249	0.550	0.137	0.137	5.00	6.67	0.92	474.56	474.26	15	2.00%	15	9.06	10%	4.74	0.05	5.00
D06	D01	(N/A)	(N/A)	0.000	0.137	0.00	6.65	0.92	473.27	473.03	44	0.50%	15	4.76	19%	3.00	0.25	5.06
D05	D04	0.370	0.940	0.348	0.348	5.00	6.67	2.34	482.47	481.90	33	1.70%	15	8.44	28%	5.88	0.09	5.00
D04	D03	0.190	0.910	0.173	0.521	5.00	6.63	3.48	481.55	475.00	35	18.70%	15	27.94	12%	15.51	0.04	5.10
D03	D02	(N/A)	(N/A)	0.000	0.521	0.00	6.62	3.48	474.81	473.54	44	2.90%	15	11.03	32%	7.96	0.09	5.13
D02	D01	0.702	0.820	0.576	1.096	5.00	6.59	7.28	472.96	472.93	25	0.10%	24	7.78	94%	2.81	0.15	5.22
D01	D00	(N/A)	(N/A)	0.000	1.233	0.00	6.54	8.13	472.88	472.37	212	0.20%	24	11.08	73%	3.85	0.91	5.38
B06	B05	0.31	0.90	0.281	0.281	5.00	6.67	1.89	486.25	485.93	64	0.50%	15	4.57	41%	3.54	0.30	5.00
B05	B04	0.30	0.92	0.275	0.556	5.00	6.57	3.68	485.83	485.19	127	0.50%	15	4.57	81%	4.14	0.51	5.30
B04	B03	0.29	0.93	0.266	0.822	5.00	6.41	5.31	485.09	484.79	60	0.50%	18	7.43	71%	4.57	0.22	5.81
B03	B02	0.32	0.91	0.290	1.112	5.00	6.34	7.11	484.69	483.58	111	1.00%	18	10.53	68%	6.40	0.29	6.03
B02	B01	(N/A)	(N/A)	0.000	1.112	0.00	6.26	7.01	480.97	478.96	50	4.00%	18	21.00	33%	10.69	0.08	6.32
C01	C02	0.93	0.93	0.866	0.866	5.00	6.67	5.82	483.41	480.48	30	10.00%	12	11.24	52%	14.43	0.03	5.00
C14	C14B	0.46	0.92	0.427	0.427	5.00	6.67	2.87	484.60	482.78	12	14.80%	15	24.88	12%	13.51	0.02	5.00
C17	C04	0.69	0.71	0.490	0.490	5.00	6.67	3.29	487.38	486.12	18	7.20%	12	9.53	35%	11.02	0.03	5.00
C22	C12	0.15	0.81	0.118	0.118	5.00	6.67	0.79	489.63	489.03	38	1.60%	15	8.14	10%	4.21	0.15	5.00
C13	C12	1.93	0.78	1.505	1.505	5.00	6.67	10.11	491.59	488.97	121	2.20%	24	33.27	30%	9.29	0.22	5.00
C12	C11	0.33	0.83	0.277	1.901	5.00	6.59	12.63	488.69	487.63	60	1.80%	24	30.07	42%	9.16	0.11	5.22
C11	C10	0.49	0.95	0.468	2.369	5.00	6.56	15.66	486.32	485.71	41	1.50%	30	50.56	31%	3.19	0.21	5.33
C20	C19	0.40	0.91	0.359	0.359	5.00	6.67	2.41	487.17	486.40	78	1.00%	18	10.47	23%	1.37	0.95	5.00
C19	C10	0.34	0.83	0.281	0.640	5.00	6.36	4.11	486.30	485.71	60	1.00%	18	10.47	39%	2.32	0.43	5.95
C10	C08	0.49	0.73	0.356	3.365	5.00	6.24	21.16	485.71	485.04	175	0.40%	30	25.21	84%	4.31	0.68	6.38
C08	C07	0.39	0.55	0.213	3.578	5.00	6.05	21.83	485.04	484.43	154	0.40%	30	25.94	84%	4.45	0.58	7.06
C07	C06	0.40	0.58	0.229	3.807	5.00	5.90	22.65	484.43	483.71	178	0.40%	30	25.94	87%	4.61	0.64	7.63
C06	C05	0.30	0.52	0.154	3.961	5.00	5.74	22.94	483.71	483.44	69	0.40%	30	25.94	88%	4.67	0.24	8.28
C05	C04	0.65	0.95	0.613	4.574	5.00	5.69	26.22	483.44	483.25	48	0.40%	36	42.18	62%	3.71	0.21	8.52
C04	C03	0.60	0.95	0.566	5.630	5.00	5.64	32.00	483.25	481.47	234	0.80%	36	58.14	55%	8.42	0.46	8.73
C16	C15	0.30	0.68	0.203	0.203	5.00	6.67	1.37	488.58	487.08	38	4.00%	12	7.12	19%	7.00	0.09	5.00
C15	C03	0.27	0.81	0.219	0.422	5.00	6.64	2.82	486.98	482.75	15	27.50%	12	18.67	15%	17.14	0.01	5.09
C24	C03	1.92	0.95	1.822	1.822	5.00	6.67	12.24	488.82	486.24	86	3.00%	24	39.06	31%	11.00	0.13	5.00
C03	C14B	(N/A)	(N/A)	0.000	7.874	0.00	5.54	43.95	481.32	480.78	75	0.70%	36	56.59	78%	8.85	0.14	9.20
C14B	C02	(N/A)	(N/A)	0.000	8.301	0.00	5.51	46.07	480.78	479.93	118	0.70%	36	56.59	81%	8.92	0.22	9.34
C02	C25	(N/A)	(N/A)	0.000	9.167	0.00	5.46	50.45	479.43	479.00	53	0.80%	36	59.65	85%	9.47	0.09	9.56
C27	C26	0.14	0.95	0.132	0.132	5.00	6.67	0.89	488.50	487.67	166	0.50%	15	4.57	19%	2.88	0.96	5.00
C26	C25	0.21	0.95	0.197	0.329	5.00	6.36	2.11	487.57	483.86	279	1.30%	15	7.45	28%	5.22	0.89	5.96
C25	C00	(N/A)	(N/A)	0.000	9.496	0.00	5.44	52.07	479.00	477.83	147	0.80%	36	59.65	87%	9.51	0.26	9.65

No.	REVISIONS	DATE	BY
1	CLP SUBMITTAL REVISION	10/16/2023	DE

Kimley»Horn
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11/17/2023

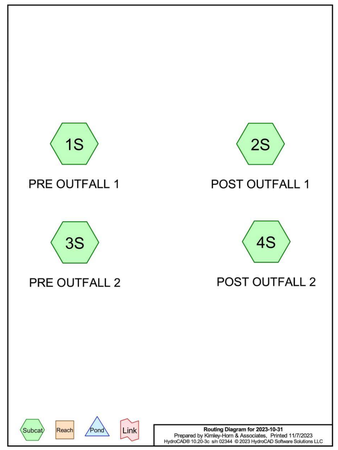
KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

VDOT STORMWATER TABLES

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CG-204

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-204 VDOT STORMWATER TABLES November 17, 2023 10:26:35am K:\RIC_CIVIL\113226001 — HD, Fashion Square Mall\CAD\PlanSheets\CG-204 VDOT STORMWATER TABLES.dwg
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Summary for Subcatchment 1S: PRE OUTFALL 1

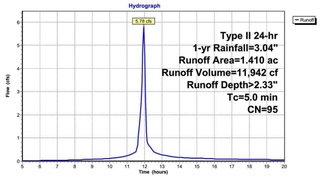
Runoff = 5.78 cfs @ 11.95 hrs, Volume= 11,942 cf, Depth> 2.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=3.04"

Area (ac)	CN	Description
* 1.410	95	
1.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 1S: PRE OUTFALL 1



Summary for Subcatchment 2S: POST OUTFALL 1

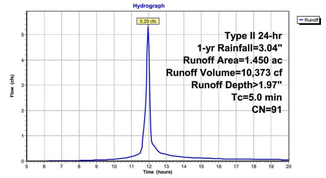
Runoff = 5.29 cfs @ 11.95 hrs, Volume= 10,373 cf, Depth> 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=3.04"

Area (ac)	CN	Description
* 1.450	91	
1.450		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 2S: POST OUTFALL 1



Summary for Subcatchment 3S: PRE OUTFALL 2

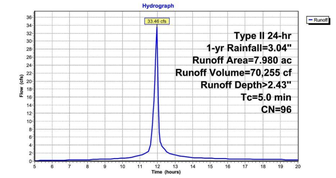
Runoff = 33.46 cfs @ 11.95 hrs, Volume= 70,255 cf, Depth> 2.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=3.04"

Area (ac)	CN	Description
* 7.980	96	
7.980		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 3S: PRE OUTFALL 2



Summary for Subcatchment 4S: POST OUTFALL 2

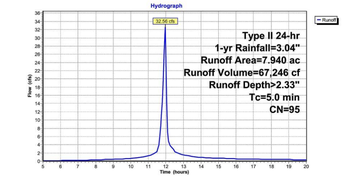
Runoff = 32.56 cfs @ 11.95 hrs, Volume= 67,246 cf, Depth> 2.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=3.04"

Area (ac)	CN	Description
* 7.940	95	
7.940		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 4S: POST OUTFALL 2



Summary for Subcatchment 1S: PRE OUTFALL 1

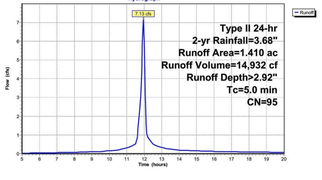
Runoff = 7.13 cfs @ 11.95 hrs, Volume= 14,932 cf, Depth> 2.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=3.68"

Area (ac)	CN	Description
* 1.410	95	
1.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 1S: PRE OUTFALL 1



Summary for Subcatchment 2S: POST OUTFALL 1

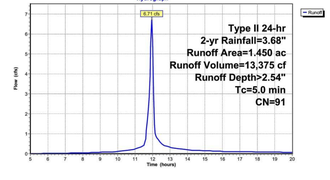
Runoff = 6.71 cfs @ 11.95 hrs, Volume= 13,375 cf, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=3.68"

Area (ac)	CN	Description
* 1.450	91	
1.450		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 2S: POST OUTFALL 1



Summary for Subcatchment 3S: PRE OUTFALL 2

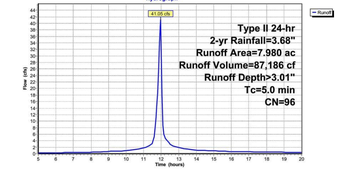
Runoff = 41.05 cfs @ 11.95 hrs, Volume= 87,186 cf, Depth> 3.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=3.68"

Area (ac)	CN	Description
* 7.980	96	
7.980		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 3S: PRE OUTFALL 2



Summary for Subcatchment 4S: POST OUTFALL 2

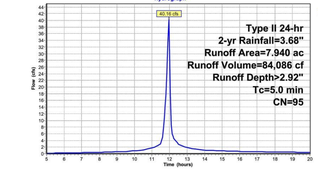
Runoff = 40.16 cfs @ 11.95 hrs, Volume= 84,086 cf, Depth> 2.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=3.68"

Area (ac)	CN	Description
* 7.940	95	
7.940		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 4S: POST OUTFALL 2



Summary for Subcatchment 1S: PRE OUTFALL 1

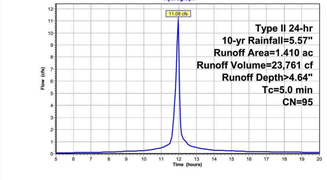
Runoff = 11.08 cfs @ 11.95 hrs, Volume= 23,761 cf, Depth> 4.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=5.57"

Area (ac)	CN	Description
* 1.410	95	
1.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 1S: PRE OUTFALL 1



Summary for Subcatchment 2S: POST OUTFALL 1

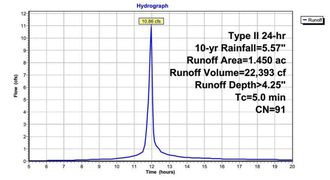
Runoff = 10.86 cfs @ 11.95 hrs, Volume= 22,393 cf, Depth> 4.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=5.57"

Area (ac)	CN	Description
* 1.450	91	
1.450		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 2S: POST OUTFALL 1



Summary for Subcatchment 3S: PRE OUTFALL 2

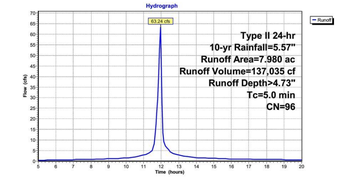
Runoff = 63.24 cfs @ 11.95 hrs, Volume= 137,035 cf, Depth> 4.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=5.57"

Area (ac)	CN	Description
* 7.980	96	
7.980		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 3S: PRE OUTFALL 2



Summary for Subcatchment 4S: POST OUTFALL 2

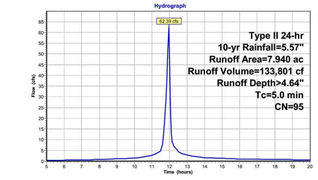
Runoff = 62.39 cfs @ 11.95 hrs, Volume= 133,801 cf, Depth> 4.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=5.57"

Area (ac)	CN	Description
* 7.940	95	
7.940		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Subcatchment 4S: POST OUTFALL 2



Plotted By: Tejada, Rafael Sheet Set: PWT Sheetset Layout: CG_205_HYDROCAD_REPORT November 17, 2023 10:37:33am K:\VRC_CVA\113226001 — HD Fashion Square Mall\CAD\Plan Sheets\CG_205_HYDROCAD_REPORT.dwg
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PHONE: 804-673-3882
WWW.KIMLEY-HORN.COM

COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001	DATE 11/17/2023	SCALE AS SHOWN	DESIGNED BY DHL	DRAWN BY RAT	CHECKED BY DBE

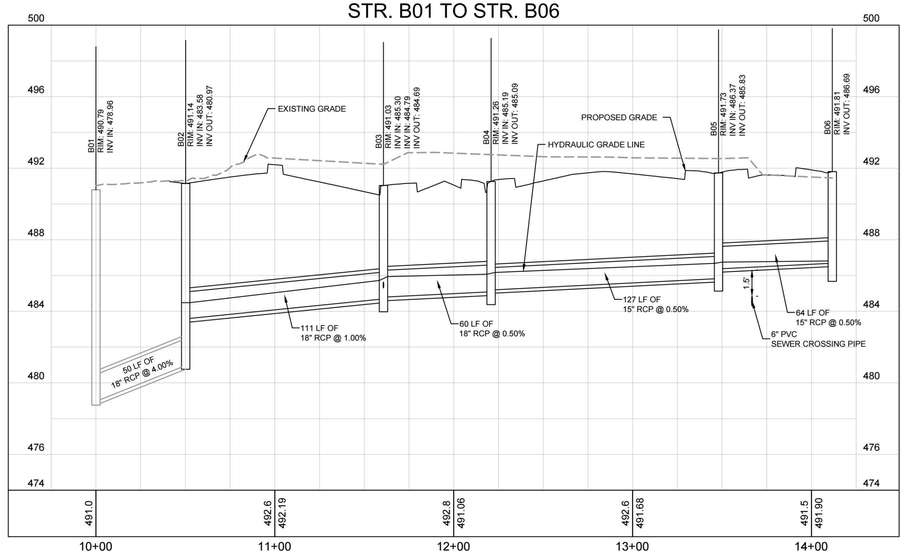
HYDROCAD REPORT

HOME DEPOT

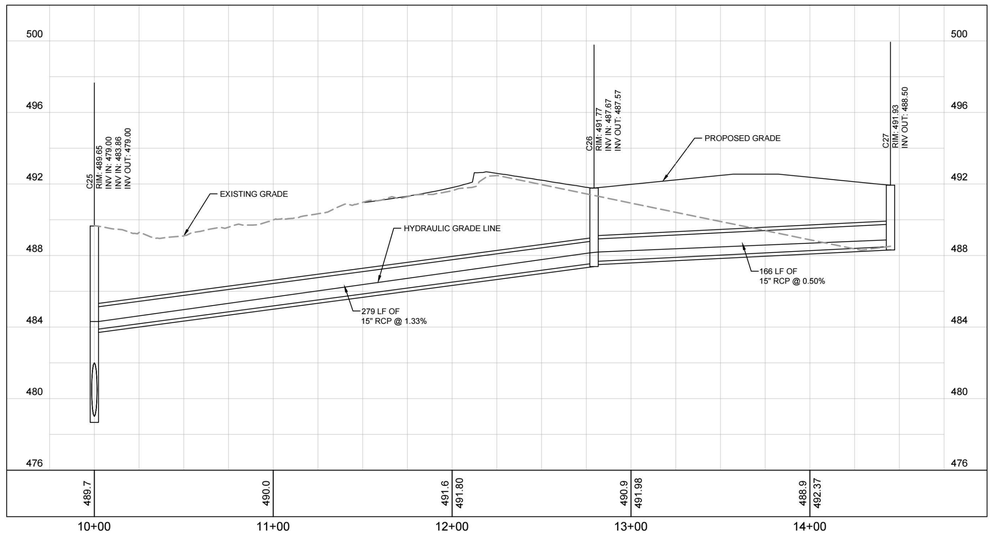
ALBEMARLE VA

SHEET NUMBER
CG-205

STR. B01 TO STR. B06



STR. C25 TO STR. C27



GRAPHIC SCALE IN FEET

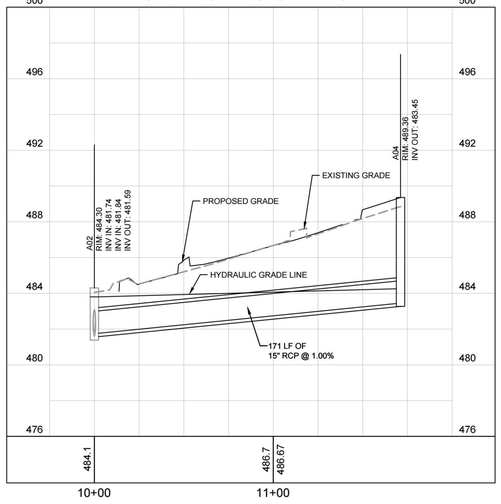
0 20 40 80

HORIZONTAL

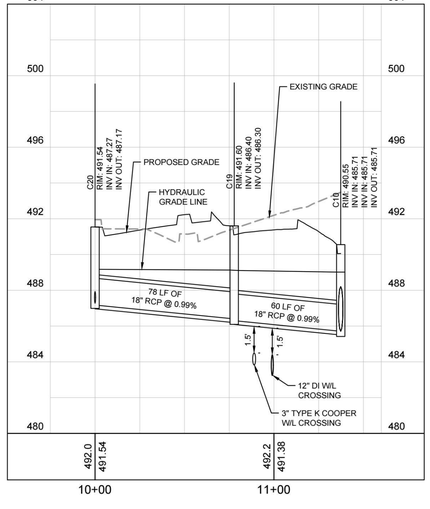
0 2 4 8

VERTICAL

STR. A04 TO STR. A02



STR. C20 TO STR. C10



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KHA PROJECT	113226001
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STORMWATER PROFILES

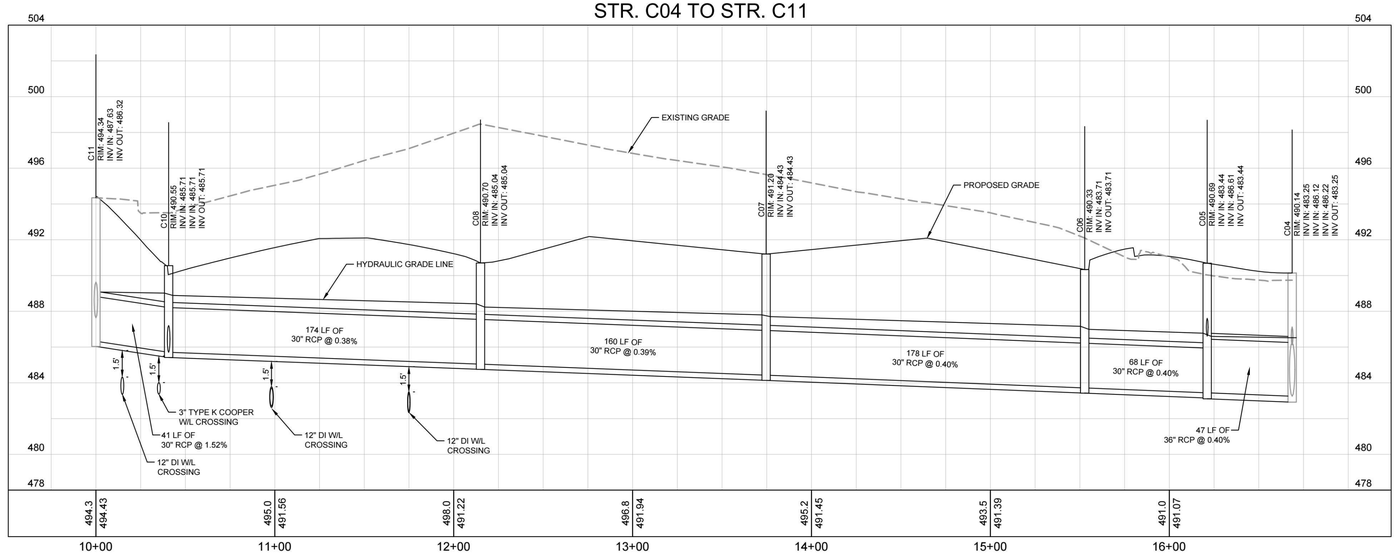
HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CG-301

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-301 STORMWATER PROFILES November 17, 2023 10:40:10am K:\VNC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CG-301 STORMWATER PROFILES.dwg
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STR. C04 TO STR. C11



GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL
0 2 4 8
VERTICAL

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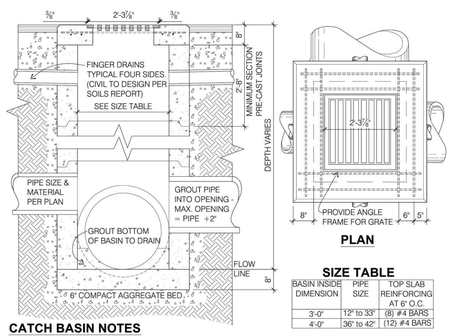
STORMWATER PROFILES

HOME DEPOT

ALBEMARLE VA

SHEET NUMBER
CG-302

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-302 STORMWATER PROFILES November 17, 2023 10:40:43am K:\RDC_CIVIL\113226001 — HD Fashion Square Mall\CAD\Plan Sheets\CG-301 STORMWATER PROFILES.dwg
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PLAN

SIZE TABLE

BASIN INSIDE DIMENSION	PIPE SIZE	TOP SLAB REINFORCING AT 6' O.C.
3'-0"	12" to 33"	(8) #4 BARS
4'-0"	36" to 42"	(12) #4 BARS

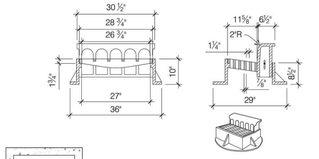
CATCH BASIN NOTES

A. GRATE SHALL BE NEENAH R-4859-C OR EAST JORDAN 5110 TYPE M3, OR EQUAL WHEN APPROVED BY ENGINEER.
B. TEXT SHALL BE CAST IN TOP OF GRATE "DUMP NO WASTE" AND "DRAINS TO WATERWAY" IN ½" MINIMUM HEIGHT.
C. STEPS SHALL BE PROVIDED WHERE DEPTHS EXCEED 6 FEET, AND SHALL MEET OSHA STANDARDS.
D. BRICK OR CAST-IN-PLACE WALLS SHALL HAVE A NOMINAL THICKNESS OF 8". PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" [150] AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING WITHOUT DAMAGE. BASINS OVER 12 FEET IN DEPTH SHALL HAVE WALLS REINFORCED WITH #4 BARS VERTICAL & HORIZONTAL 12" O.C. WITH 2" CLEAR FROM INSIDE FACE OF WALL. ANY CAST IN PLACE CONCRETE TO BE CLASS 'C'
E. MINIMUM DEPTH SHALL BE OUTSIDE DIAMETER OF OUTLET PIPE + SEVEN INCHES.

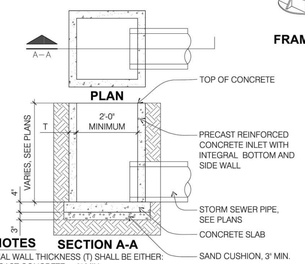
DESIGNER NOTE: CIVIL ENGINEER SHALL REFER TO STATE DOT AND LOCAL CITY DETAILS FOR PROPER STORM STRUCTURE; ABOVE IS A DESIGN MINIMUM - ALL STORM SEWER DETAILS INTENDED SHALL BE SHOWN ON THE DRAWINGS

26-H1 STORM STRUCTURE DETAIL
SCALE: NTS

THIS DETAIL IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CIVIL ENGINEER TO VERIFY ALL LOCAL, STATE AND FEDERAL CODES PRIOR TO USE. THE HOME DEPOT AND WD PARTNERS ARE NOT LIABLE FOR ANY ERRORS OR OMISSIONS RELATED WITH THE USE OF THIS DETAIL.



FRAME & GRATE



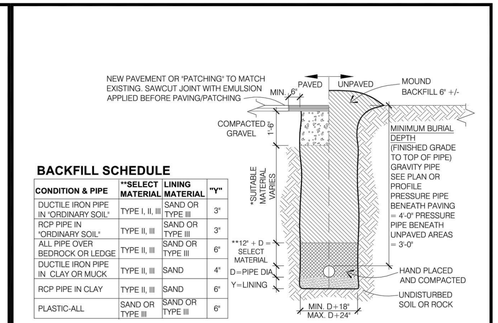
SECTION A-A

INLET NOTES

A. MATERIAL WALL THICKNESS (T) SHALL BE EITHER:
   1. PRECAST CONCRETE = 3" MIN.
   2. CAST-IN-PLACE CONCRETE = 6" MIN.
B. CONTRACT UNIT PRICE FOR 'INLET, TYPE A' SHALL INCLUDE THE FRAME AND LID OR GRATE SPECIFIED AND THE SAND CUSHION.
C. CONCRETE SLAB SHALL BE EITHER PRECAST REINFORCED CONCRETE OR 3500 PSI CONCRETE.
D. STRUCTURE SHALL BE EITHER SQUARE OR ROUND.
E. FRAME AND GRATE SHALL BE NEENAH R-3281-A, EAST JORDAN IRON WORKS 7210, OR APPROVED EQUAL.
F. CAST IRON FRAME AND GRATE SHALL BE MADE OF GRAY IRON.

26-H2 STORM STRUCTURE DETAIL
SCALE: NTS

THIS DETAIL IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CIVIL ENGINEER TO VERIFY ALL LOCAL, STATE AND FEDERAL CODES PRIOR TO USE. THE HOME DEPOT AND WD PARTNERS ARE NOT LIABLE FOR ANY ERRORS OR OMISSIONS RELATED WITH THE USE OF THIS DETAIL.



BACKFILL SCHEDULE

CONDITION & PIPE	**SELECT MATERIAL	LINING MATERIAL	"Y"
DUCTILE IRON PIPE IN 'ORDINARY SOIL'	TYPE I, II, III	SAND OR TYPE III	3"
RCP PIPE IN 'ORDINARY SOIL'	TYPE II, III	SAND OR TYPE III	3"
ALL PIPE OVER BEDROCK OR LEDGE	TYPE II, III	SAND OR TYPE III	6"
DUCTILE IRON PIPE IN CLAY OR MUCK	TYPE II, III	SAND	4"
RCP PIPE IN CLAY	TYPE II, III	SAND	6"
PLASTIC-ALL	SAND OR TYPE III	SAND OR TYPE III	6"

* SUITABLE MATERIAL SHOULD CONTAIN NO STONES GREATER THAN 4" IN DIAMETER AND NO FROZEN LUMPS ALL MATERIAL TO BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED BEFORE PLACING NEXT LIFT.
** TYPE I MATERIAL SHALL BE GRAVEL CONTAINING NO STONES GREATER THAN 1 1/2" IN DIAMETER, NO FROZEN LUMPS, NO CLAY, AND NO ORGANIC MATERIAL.
** TYPE II MATERIAL SHALL BE CLEAN, HARD, CRUSHED OR NATURAL STONE WITH A GRADATION BY WEIGHT OF 100% PASSING A 1 1/2" SQUARE OPENING, NOT MORE THAN 25% PASSING A 3/4" SQUARE OPENING AND NOT MORE THAN 5% PASSING A 1/2" SQUARE OPENING.
** TYPE III MATERIAL SHALL BE CLEAN, HARD, CRUSHED STONE FREE FROM COATINGS AND THOROUGHLY WASHED WITH A GRADATION BY WEIGHT OF 100% PASSING A 1' SQUARE OPENING AND 0% TO 5% PASSING A 1/4" SQUARE OPENING

TRENCH INSTALLATION NOTES

A. WHERE BACKFILL IS DESIGNATED 'COMPACTED', THIS MEANS 90% TO 95% STANDARD PROCTOR, AASHTO T-99. ALL FILL PLACED BELOW PIPES AND STRUCTURES MUST MEET THIS REQUIREMENT.
B. FOR ALL TRENCHES WITH A GRADE GREATER THAN 4% AND/OR WHERE GROUNDWATER IS APPARENT, INSTALL CLAY DAMS AROUND PIPE AT 100' INTERVALS.

26-K TRENCH DETAIL
SCALE: NTS

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
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11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
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STORMWATER DETAILS

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CG-502

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CG-502 STORMWATER DETAILS November 17, 2023 10:41:22am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CG-502 STORMWATER DETAILS.dwg
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UTILITY LEGEND

- PROPOSED 12" WATERLINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED WATER GATE VALVE (GV)
- PROPOSED FIRE HYDRANT
- PROPOSED DOMESTIC WATER METER
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED BOUNDARY VALVE

UTILITY NOTES

1. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND NOTIFY KIMLEY-HORN IN ORDER TO VERIFY ADEQUATE SEPARATION BETWEEN UTILITIES CAN BE ACHIEVED AND NO CONFLICTS EXIST.
2. ALL PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND INCLUDING ELECTRIC, TELEPHONE, AND CATV.
3. ABOVE GROUND IRRIGATION EQUIPMENT SHALL BE COVERED BY AN ALL-WEATHER BOX OR DECORATIVE COVER.
4. REFER TO SHEET CV-101 FOR ALL EXISTING EASEMENTS.
5. ALL PROPOSED SANITARY CLEANOUTS SHALL BE TRAFFIC-RATED.

UTILITY NOTES

DURING CONSTRUCTION, THE FOLLOWING FIRE PREVENTION STEPS ARE REQUIRED:

1. SMOKING SHALL BE PROHIBITED IN AREAS WHERE SMOKING MAKES CONDITIONS SUCH AS TO MAKE SMOKING HAZARD AND THESE AREAS SHALL BE DESIGNATED WITH NO SMOKING SIGNS PER VIRGINIA STATEWIDE FIRE PREVENTION CODE.
2. AREAS WHERE SMOKING CAN OCCUR SHALL HAVE APPROPRIATE RECEPTACLES FOR DISCARDED SMOKING MATERIALS PER VIRGINIA STATEWIDE FIRE PREVENTION CODE.
3. VIRGINIA STATEWIDE FIRE PREVENTION CODE, VEHICULAR ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED AT ALL CONSTRUCTION AND DEMOLITION SITES, PROVIDE ACCESS TO WITHIN 100 FT. OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS, AND HAVE NO OVERHEAD WIRING OR OTHER OVERHEAD OBSTRUCTIONS LOWER THAN 13 FT. 6 INCHES; THIS ACCESS MAY BE VIA PERMANENT OR TEMPORARY ROAD, BUT SHALL BE CAPABLE OF SUPPORTING FIRE APPARATUS IN ALL WEATHER CONDITIONS.
4. CONTRACTOR SHALL ENSURE THE STREET NUMBERS ARE ALWAYS PLAINLY VISIBLE FROM FRONTAGE STREET DURING CONSTRUCTION PER VIRGINIA STATEWIDE FIRE CODE.
5. AN APPROVED WATER SUPPLY FOR FIREFIGHTING OPERATIONS SHALL BE IN PLACE AND AVAILABLE AS SOON AS COMBUSTIBLE MATERIALS ARRIVE ON SITE.
6. WASTE AND COMBUSTIBLE DEBRIS SHALL BE REMOVED FROM THE BUILDING AT THE END OF EACH DAY AND DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA STATEWIDE FIRE CODE.
7. FIRE EXTINGUISHERS SHALL BE PROVIDED, WITH NOT LESS THAN ONE APPROVED FIRE EXTINGUISHER AT EACH STAIRWELL, ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, IN EVERY STORAGE AND CONSTRUCTION SHED AND IN AREAS OF SPECIAL; HAZARDS, SUCH AS WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE STORED OR USED, IN ACCORDANCE WITH THE VIRGINIA STATEWIDE FIRE CODE.
8. OPERATIONS INVOLVING THE USER OF CUTTING AND WELDING SHALL COMPLY WITH THE VIRGINIA STATEWIDE FIRE PREVENTION CODE AND SHALL REQUIRE A PERMIT FROM THE ALBEMARLE COUNTY FIRE MARSHAL'S OFFICE.

EXISTING RWSA 18" CI WATERLINE

NORTHING: 3916787.93
EASTING: 11490706.17

RIO ROAD E
(STATE ROUTE 631)

NORTHING: 3916215.23
EASTING: 11490985.15

22.5° 12" HORIZ. BEND
90° 12" HORIZ. BEND
20' UTILITY EASEMENT
12" DI WATERLINE
REFER TO SHEET CU-201 FOR WATERLINE PROFILE
FIRE HYDRANT ASSEMBLY
6" DI FIRE LINE
1.5" IRRIGATION RPZ BACKFLOW PREVENTER
1.5" IRRIGATION METER
3" TYPE K COPPER DOMESTIC WATERLINE
VERTICAL BEND (TYP.) REFER TO WATERLINE PROFILE CU-201. REFER TO DETAIL W-3A ON CU-501
TIE INTO EX. 12" DI WATERLINE
3" DOMESTIC WATER METER
3" RPZ BACKFLOW PREVENTER
12"x12" TEE
12" GATE VALVE
90° 12" HORIZ. BEND
12"x6" TEE
6" GATE VALVE
22.5° 12" HORIZ. BEND
22.5° 12" HORIZ. BEND
VERTICAL BEND (TYP.) REFER TO WATERLINE PROFILE CU-201. REFER TO DETAIL W-3A ON CU-501
DOMESTIC WATERLINE CONNECTION TO BUILDING
BLDG 1
RIM: 491.41
INV OUT: 484.55
CO-3
PROPPOSED FIRE DEPARTMENT CONNECTION IN
PRIVATE 8" PVC FIRE LINE
25 LF OF 6" PVC @ 1.00%
12"x8" TEE
8" GATE VALVE
153 LF OF 6" PVC @ 1.15%
VERTICAL BEND (TYP.) REFER TO WATERLINE PROFILE CU-201. REFER TO DETAIL W-3A ON CU-501

GARDEN CENTER
28,116 S.F.

THE HOME DEPOT

BUILDING	108,283 S.F.
VESTIBULES	1,348 S.F.
GARDEN CENTER	28,116 S.F.
	137,747 S.F.

VERIFY ACTUAL BLDG. AREA WITH ARCHITECTURAL BLDG. PLAN

61 LF OF 6" PVC @ 1.67%
CO-8
RIM: 492.39
INV IN: 485.16
INV IN: 485.16
SSMH5
RIM: 491.03
INV IN: 483.43
INV OUT: 483.33
SSMH6
RIM: 491.55
INV IN: 484.14
INV OUT: 484.04
122 LF OF 8" PVC @ 0.50%
138 LF OF 8" PVC @ 0.50%
BLDG 4
RIM: 487.54
23 LF OF 4" PVC @ 4.55%
92 LF OF 6" PVC @ 1.00%
CO-10
RIM: 492.46
INV IN: 486.08
INV IN: 486.08
BLDG 2
RIM: 492.69
INV OUT: 489.19
23 LF OF 4" PVC @ 13.65%
12"x6" TAPPING SLEEVE
6" GATE VALVE
TIE INTO EX. 12" DI WATERLINE
6" DI FIRE LINE
FIRE HYDRANT ASSEMBLY
SSMH4
RIM: 490.62
INV IN: 482.64
INV OUT: 482.54
81 LF OF 8" PVC @ 0.50%
101 LF OF 6" PVC @ 2.84%
EX SSMH 2
RIM: 490.59
INV IN: 482.14
BLDG 3
RIM: 492.69
INV OUT: 489.19
23 LF OF 4" PVC @ 1.00%
CO-9
RIM: 492.31
INV IN: 488.96
GEN

CO-2
RIM: 491.42
INV IN: 482.54
EXISTING 6" SANITARY LATERAL
32 LF OF 6" PVC @ 1.06%
SSMH7
RIM: 491.35
INV IN: 482.20
185 LF OF 6" PVC @ 1.22%
FIRE HYDRANT ASSEMBLY
12"x6" TEE
6" GATE VALVE
45° 12" HORIZ. BEND
SSMH 1
RIM: 490.62
INV IN: 479.84
INV OUT: 479.74
33 LF OF 6" PVC @ 1.20%
EX SSMH 1
RIM: 490.98
INV IN: 479.34
45° 12" HORIZ. BEND
TIE INTO EX. 12" DI WATERLINE

SEMINOLE TRAIL
(STATE ROUTE 29)

FASHION SQUARE DR

NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

No.	REVISIONS	DATE	BY
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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

UTILITY PLAN

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CU-101

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CU-101 UTILITY PLAN November 17, 2023 10:40:43am K:\RIC_Civil\113226001 — HD, Fashion Square Mall\CAD\PlanSheets\CU-101 UTILITY PLAN.dwg
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FLOW TEST PROVIDED BY ALBEMARLE COUNTY SERVICE AUTHORITY

	Test Location	
	Elevation 492.13	
Total Flow	PSI	FLOW
Static	65	0
2542	60.2	2542

WATER MODEL RESULTS

JUNCTION SCHEDULE DOMESTIC

Label	Elevation	Demand (gpm)	Fire Flow Demand (gpm)	Residual Pressure (psi)
J-1	492.41	48	-	65
J-2	492.13	0	-	65
J-3	491.13	0	-	65
J-4	491.01	0	-	65
J-5	491.47	0	-	65
J-6	492.41	0	-	65
J-8	490.4	0	-	66
H-1	493.21	-	0	65
H-2	492.1	-	0	65
H-3	490.29	-	0	66

JUNCTION SCHEDULE FIRE FLOW

Label	Elevation	Demand (gpm)	Fire Flow Demand (gpm)	Residual Pressure (psi)
J-1	492.41	48	0	59
J-2	492.13	0	0	57
J-3	491.13	0	20	58
J-4	491.01	0	0	58
J-5	491.47	0	0	57
J-6	492.41	0	0	59
J-8	490.4	0	0	60
H-1	493.21	-	1,000	56
H-2	492.1	-	1,000	57
H-3	490.29	-	750	57

Pipe Table

Pipes	Lengths	Diameter	Materical	Hazen-Williams (C)
P-1	548	12	Ductile Iron	130
P-2	171	12	Ductile Iron	130
P-3	261	12	Ductile Iron	130
P-4	138	12	Ductile Iron	130
P-5	11	12	Ductile Iron	130
P-7	410	12	Ductile Iron	130
P-8	72	6	Ductile Iron	130
P-9	20	6	Ductile Iron	130
P-10	30	6	Ductile Iron	130
P-11	22	12	Ductile Iron	130

RIO ROAD E
(STATE ROUTE 631)

S24°43'43"E 482.82'

S29°53'31"E 158.42'

NORTHING: 3916214.60
EASTING: 11490985.62

NORTHING: 3916787.93
EASTING: 11490706.17

N27°59'12"E
42.09'

N46°22'47"E 165.41'

NORTHING: 3916722.32
EASTING: 11490397.04

8"E 320.00'

S4°17'53"E 114.01'

S49°17'53"E
23.73'

R=165.75'
L=165.63'

R=45.00'
L=35.34'

GARDEN
CENTER
28,116 S.F.

THE HOME DEPOT

BUILDING	108,283 S.F.
VESTIBULES	1,348 S.F.
GARDEN CENTER	28,116 S.F.
	137,747 S.F.

VERIFY ACTUAL BLDG. AREA WITH ARCHITECTURAL BLDG. PLAN

RE DR

N49°17'53"W 242.04'

N31°02'07"W 94.00'

45.88'

S59°57'53"W

NORTHING: 3916464.45
EASTING: 11490109.68

NORTHING: 3916440.79
EASTING: 11490070.37

NORTHING: 3916306.60
EASTING: 11490293.18

N40°42'24"E 113.74'

NORTHING: 3916220.38
EASTING: 11490219.01

N40°43'55"E
46.02'

N47°17'52"

LOADING

GEN

S39°02'47"W 405.15'

NORTHING: 3915829.58
EASTING: 11490673.32

N49°17'53"W 66.11'

S40°42'10"W
40.02'

N49°00'22"W
38.06'

82.44'

GRAPHIC SCALE IN FEET
0 20 40 80

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
PROFESSIONAL ENGINEER
11/17/2023

KHA PROJECT	113226001
DATE	11/17/2023
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WATER MODEL

HOME DEPOT

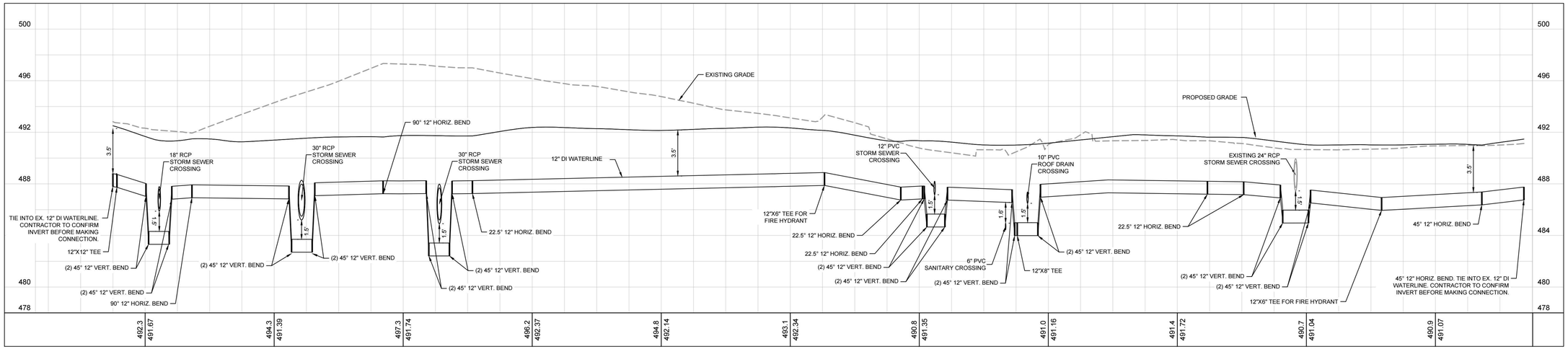
VA

ALBEMARLE

SHEET NUMBER
CU-102

Plotted By: Tajada, Rafael Sheet Set: PMT Sheetset Layout: CU-102 WATER MODEL November 17, 2023 10:44:01am K:\RIC_CIV\113226001 – HD Fashion Square Mall\CAD\PlanSheets\CU-102 WATER MODEL.dwg
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WATERLINE 1



GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

VERTICAL
8
4
2
0

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UTILITY PROFILES

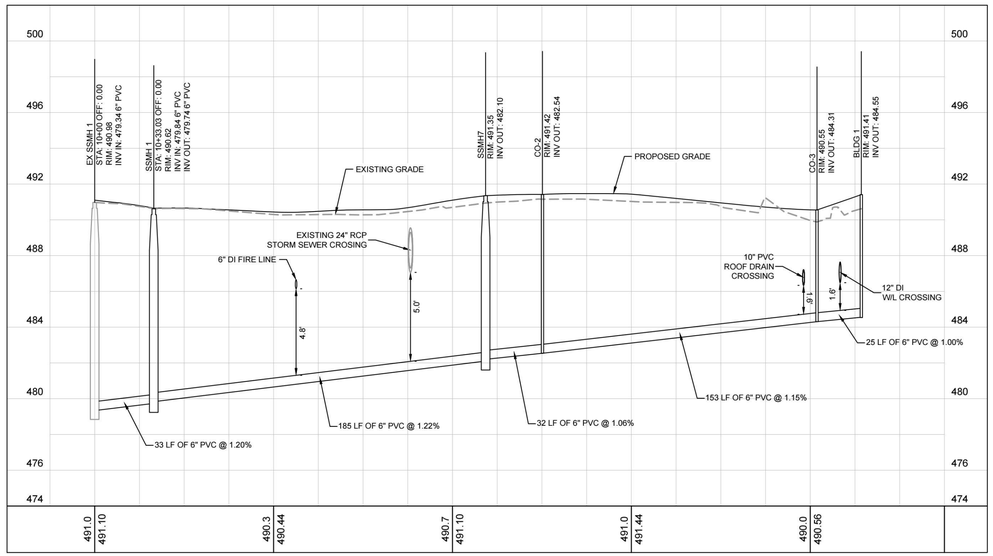
HOME DEPOT

ALBEMARLE VA

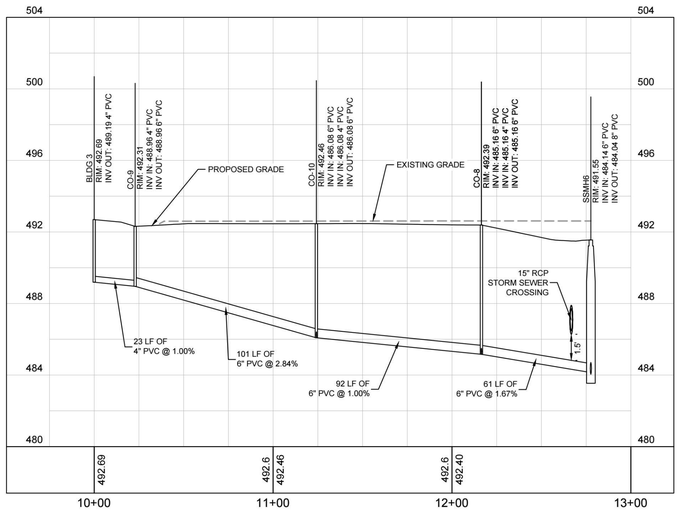
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CU-201

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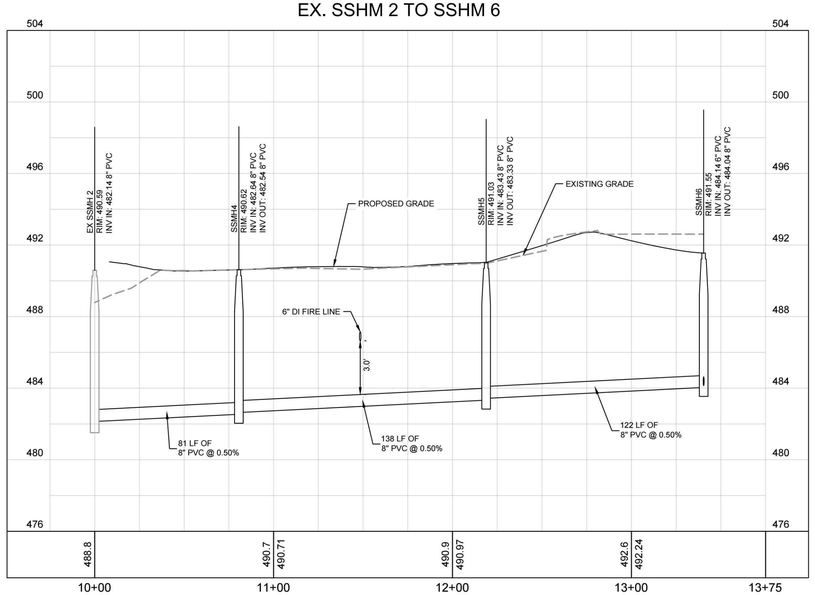
EX-SSMH 1 TO BLDG 1



BLDG 3 TO SSMH 6



EX. SSHM 2 TO SSHM 6



GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

VERTICAL
8
4
2
0

No.	REVISIONS	DATE	BY
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UTILITY PROFILES

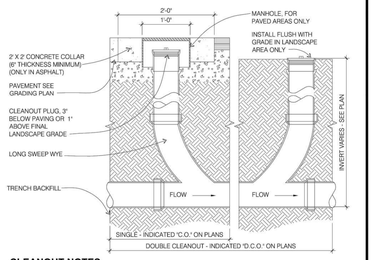
HOME DEPOT

VA

ALBEMARLE

SHEET NUMBER
CU-202

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CU-202 UTILITY PROFILES November 17, 2023 10:46:06pm K:\RIC_CIV\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CU-201 UTILITY PROFILES.dwg
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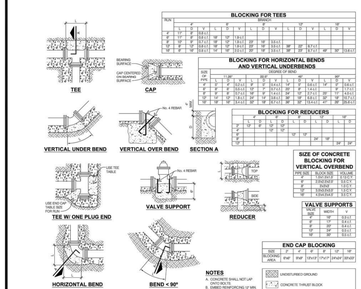


CLEANOUT NOTES

A. CLEANOUT LOCATIONS INDICATED ON GRADING AND UTILITY PLANS AS "CO" FOR SINGLE CLEANOUT AND "DCO" FOR DOUBLE CLEANOUT.
B. PROVIDE CLEANOUTS AS SPECIFIED.
   1. ZURN Z-1400 CLEAN OUTS IN NON-TRAFFIC AREAS AND SIDEWALKS.
   2. ZURN-1449 CLEAN OUTS IN LANDSCAPED AREAS.
   3. ZURN Z-1400-HD CLEAN OUTS IN TRAFFIC AREAS WITH A "SERVICE STATION" TYPE MANHOLE, OPW #104 A12 - DOVER CORP./OPW DIV.

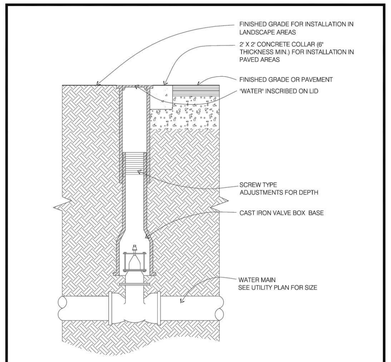
26-G1 CLEAN OUT — SCALE: NTS

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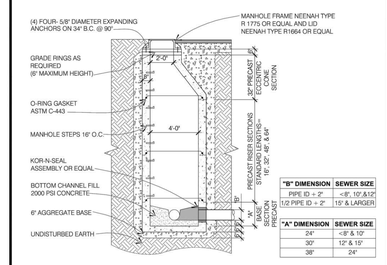
26-G2 THRUST BLOCK DETAIL — SCALE: NTS

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26-G3 VALVE BOX DETAIL — SCALE: NTS

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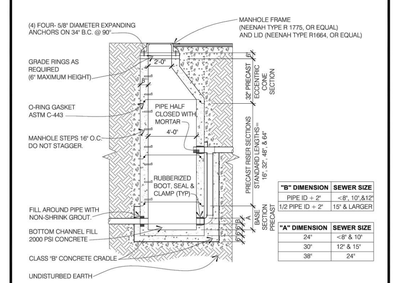


SANITARY MANHOLE NOTES

A. FLEXIBLE BUTYL RUBBER SEALANT EQUAL TO CONSEAL TYPE CS-302 SHALL BE USED TO SEAL CASTING TO MANHOLE SEAL ADJUSTING RINGS TO RISERS AND TO SEAL RISER JOINTS.

26-I1 SANITARY MANHOLE — SCALE: NTS

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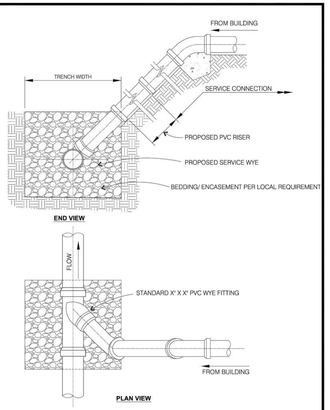


SANITARY MANHOLE NOTES

A. FLEXIBLE BUTYL RUBBER SEALANT EQUAL TO CONSEAL TYPE CS-302 SHALL BE USED TO SEAL CASTING TO MANHOLE SEAL ADJUSTING RINGS TO RISERS AND TO SEAL RISER JOINTS.
B. SEE UTILITY PLAN FOR ALL INLET AND OUTLET PIPE ELEVATIONS AND SIZES.

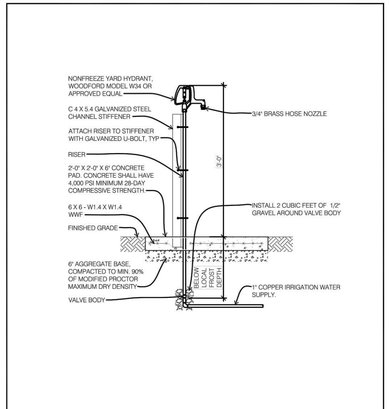
26-I2 SANITARY DROP MANHOLE (EXTERNAL) — SCALE: NTS

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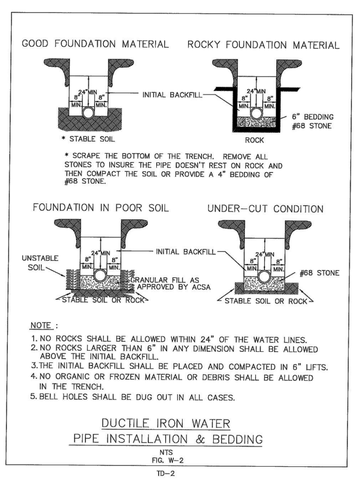
26-J SANITARY SEWER RISER — SCALE: NTS

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26-M YARD HYDRANT DETAIL — SCALE: NTS

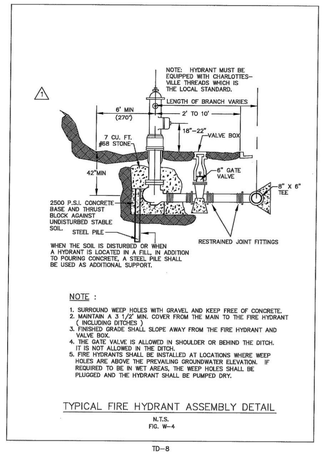
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DUCTILE IRON WATER PIPE INSTALLATION & BEDDING

NTS
FIG. W-2

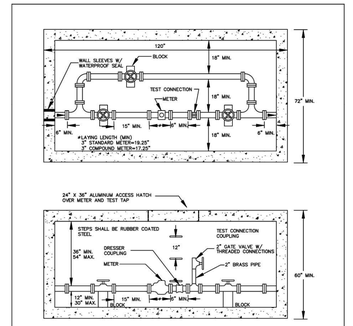
TD-2



TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.
FIG. W-4

TD-8



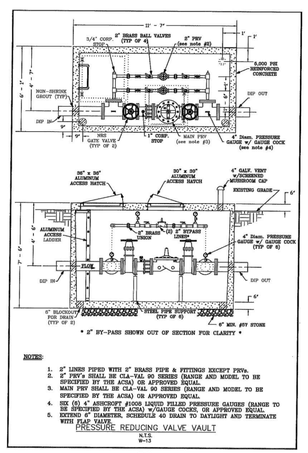
NOTES:

1. MINIMUM WALL THICKNESS FOR PRECAST OR POUR-IN-PLACE VAULTS SHALL BE 4".
2. THE OUTSIDE OF THE VAULT BELOW GRADE SHALL BE COATED WITH AN APPROVED WATERPROOFING COMPOUND.
3. PROVIDE A FLOOR DRAIN WITH A 2" DRAIN PIPE RUN TO DAYLIGHT OR INSTALL A SUMP PUMP. IN EITHER CASE THE FLOOR OF THE VAULT SHALL SLOPE TO THE DRAIN OR SUMP.

TYPICAL METER VAULT (3" METER)

NTS
FIG. W-7D

TD-17



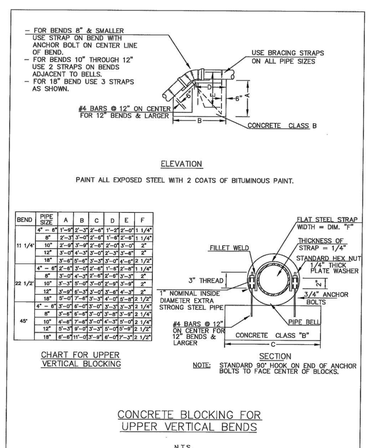
NOTES:

1. 8" LINES PIPED WITH 8" BRASS PIPE & FITTINGS EXCEPT PIVs.
2. 8" PIV's SHALL BE CLA-VAL 90 SERIES (RANGE AND MODEL TO BE SPECIFIED BY THE ACSA) OR APPROVED EQUAL.
3. MAIN PIV SHALL BE CLA-VAL 90 SERIES (RANGE AND MODEL TO BE SPECIFIED BY THE ACSA) OR APPROVED EQUAL.
4. SIZE (6) 4" ASHCROFT #1008 LIQUID FILLED PRESSURE GAUGES (RANGE TO BE SPECIFIED BY THE ACSA) w/GAUGE COCKS, OR APPROVED EQUAL.
5. EXTEND 8" DIAMETER, SCHEDULE 40 DRAIN TO DAYLIGHT AND TERMINATE WITH FLAP VALVE.

PRESSURE REDUCING VALVE VAULT

N.T.S.
M-13

TD-24



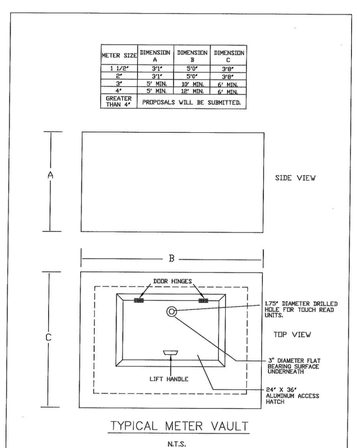
BEND	PIPE SIZE	A	B	C	D	E	F
11 1/4°	4" – 6"	1'-4"	2'-3"	2'-8"	1'-3"	2'-1"	1 1/4"
	8"	2'-3"	3'-7"	2'-8"	1'-3"	2'-1"	1 1/4"
	10"	2'-7"	4'-1"	2'-8"	1'-3"	2'-1"	2"
	12"	3'-0"	4'-7"	2'-8"	1'-3"	2'-1"	2"
	18"	4'-5"	6'-11"	2'-8"	1'-3"	2'-1"	3"
22 1/2°	4" – 6"	2'-4"	3'-7"	3'-5"	1'-8"	2'-8"	2"
	8"	3'-3"	5'-1"	3'-5"	1'-8"	2'-8"	2"
	10"	3'-7"	5'-7"	3'-5"	1'-8"	2'-8"	2 1/2"
	12"	4'-0"	6'-2"	3'-5"	1'-8"	2'-8"	2 1/2"
	18"	5'-5"	8'-6"	3'-5"	1'-8"	2'-8"	3"
45°	4" – 6"	3'-4"	5'-1"	4'-3"	2'-2"	3'-3"	2"
	8"	4'-3"	6'-7"	4'-3"	2'-2"	3'-3"	2 1/2"
	10"	4'-7"	7'-1"	4'-3"	2'-2"	3'-3"	2 1/2"
	12"	5'-0"	7'-8"	4'-3"	2'-2"	3'-3"	2 1/2"
	18"	6'-5"	10'-0"	4'-3"	2'-2"	3'-3"	3"

CHART FOR UPPER VERTICAL BLOCKING

CONCRETE BLOCKING FOR UPPER VERTICAL BENDS

N.T.S.
FIG. W-3A

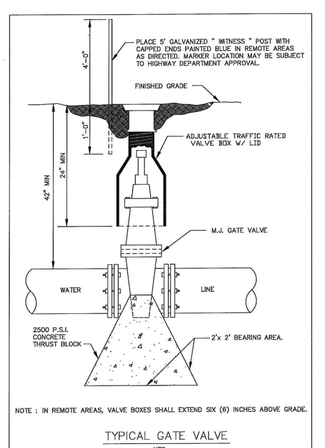
TD-4



TYPICAL METER VAULT

N.T.S.
FIG. W-7A

TD-14



NOTE : IN REMOTE AREAS, VALVE BOXES SHALL EXTEND SIX (6) INCHES ABOVE GRADE.

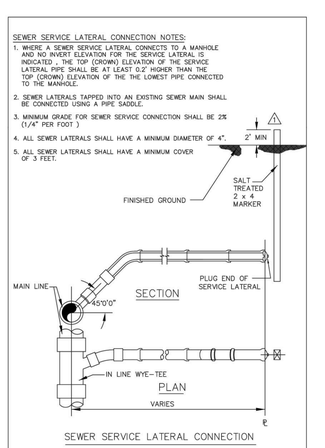
TYPICAL GATE VALVE

NTS
FIG. W-5

TD-9

SEWER SERVICE LATERAL CONNECTION NOTES:

1. WHERE A SEWER SERVICE LATERAL CONNECTS TO A MANHOLE AND NO INVERT ELEVATION FOR THE SERVICE LATERAL IS INDICATED , THE TOP (CROWN) ELEVATION OF THE SERVICE LATERAL PIPE SHALL BE AT LEAST 0.2' HIGHER THAN THE TOP (CROWN) ELEVATION OF THE LOWEST PIPE CONNECTED TO THE MANHOLE.
2. SEWER LATERALS TAPPED INTO AN EXISTING SEWER MAIN SHALL BE CONNECTED USING A PIPE SADDLE.
3. MINIMUM GRADE FOR SEWER SERVICE CONNECTION SHALL BE 2% (1/4" PER FOOT).
4. ALL SEWER LATERALS SHALL HAVE A MINIMUM DIAMETER OF 4".
5. ALL SEWER LATERALS SHALL HAVE A MINIMUM COVER OF 3 FEET.



SEWER SERVICE LATERAL CONNECTION

N.T.S.
FIG. S-2

TD-33

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
PROFESSIONAL ENGINEER
11/17/2023

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

HOME DEPOT
UTILITY DETAILS

ALBEMARLE VA

SHEET NUMBER
CU-501

Plotted By: Tajuba, Rafael Sheet Set: PMT Sheetset: Logo\n\CU-501 UTILITY PROFILES & DETAILS.dwg Plotted: November 17, 2023 10:47:23am K:\RIC_CIV\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CU-501 UTILITY PROFILES & DETAILS.dwg
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SEWER DATA SHEET

Date 11-03-2023

(1) Project Name	Home Depot At Route 29 and Rio Road		
(2) Project Location	1600 Rio Road East, Charlottesville, VA 22901		
(3) Consultant	Kimley-Horn		
(4) Wastewater Treatment Facility			
(5) Design Population			
(6) Industrial Waste			
(7) Pipe Material	PVC		
(8) Pipe Diameter (Inches)	**DIP Length (Feet)**	**PVC Length (Feet)**	
6"		610 LF	
8"		500 LF	
10"			
12"			
15"			
18"			
21"			
24"			
(9) Total Pipe Length (Feet)		1110	
(10) Manholes:	**(A) Standard**	7	**(Number)**
	(B) Drop	0	**(Number)**
(11) (A) Siphons & Pump Stations		0	**(Number)**
(B) Force Main (Size-Length)		0	**(Inches-Feet)**

Authority Provide:

Drainage Basin	RWSA Interceptor
Sub Drainage Basin	ACSA Trunk Sewer or Collector Main

A-2

WATER DATA SHEET

Date 11-03-2023

(1) Project Name	Home Depot At Route 29 and Rio Road
(2) Project Location	1600 Rio Road East, Charlottesville, VA 22901
(3) Consultant	Kimley-Horn
(4) Primary Water Plant	
(5) Design Population	
(6) Hydraulic Capacity	2818 GPM @ 56 psi
(7) Pipe Material	Various

(8) Pipe Diameter (Inches)	**Length (Feet)**
3"	200 LF of Type K Copper
6"	125 LF of DI
8"	65 LF of PVC
10"	
12"	1150 LF of DI

(9) Total Pipe Length	1540 LF	**(Feet)**
(10) Fire Hydrant Assemblies	3	**(Number)**
(11) Blow-off Assemblies	0	**(Number)**
(12) Air Relief Valves	0	**(Number)**

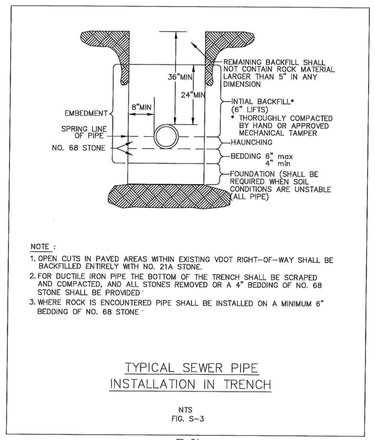
(13) Gate Valves (Inches)	**Quantity (Number)**
4"	
6"	3
8"	1
10"	
12"	2

(14) Minimum pressure at critical water meter _____ **(20 psi required)**

Authority Provide:

Booster Station	
Water Storage Tank	
Pressure Zone	

A-1



NOTE :
1. OPEN CUTS IN PAVED AREAS WITHIN EXISTING VDOT RIGHT-OF-WAY SHALL BE BACKFILLED ENTIRELY WITH NO. 21A STONE.
2. FOR DUCTILE IRON PIPE THE BOTTOM OF THE TRENCH SHALL BE SCRAPED AND COMPACTED, AND ALL STONES REMOVED OR A 4" BEDDING OF NO. 68 STONE SHALL BE PROVIDED
3. WHERE ROCK IS ENCOUNTERED PIPE SHALL BE INSTALLED ON A MINIMUM 6" BEDDING OF NO. 68 STONE

TYPICAL SEWER PIPE
INSTALLATION IN TRENCH

NTS
FIG. S-3

TD-34

Project Name
Customer: Home Depot
Location: 1531 Rio Road East Charlottesville, VA 22901

Fixtures	Fixture Value 60 psi		No. of Fixtures		Fixture Value (gpm)
Bathtub	8	X		=	0
Bedpan Washers	10	X		=	0
Bidet	2	X		=	0
Eyewash Station	2	X		=	0
Drinking Fountain - Public	2	X	1	=	2
Kitchen Sink	2.2	X		=	0
Lavatory	1.5	X	6	=	9
Showerhead (Shower Only)	2.5	X		=	0
Service Sink	4	X	1	=	4
Toilet - Flush Valve	35	X		=	0
Toilet - Low Flow Flush Valve	26	X		=	0
Toilet - Tank Valve	4	X	8	=	32
Urinal - Pedestal Flush Valve	35	X		=	0
Urinal - Wall Flush Valve	16	X	2	=	32
Wash Sink (Each set of Faucets)	4	X		=	0
Dishwasher	2	X		=	0
Washing Machine	6	X		=	0
Hose (50 ft Wash Down) - 1/2 in	5	X		=	0
Hose (50 ft Wash Down) - 5/8 in	9	X		=	0
Hose (50 ft Wash Down) - 3/4 in	12	X		=	0

Combined Fixture Value Total	**79**	**Fixture Units**
Pressure Factor	**1**	**Pressure Factor**
Customer Peak Demand (From Demand Chart)	**48**	
Customer Peak Demand * Pressure Factor	**48.0**	**Gal/Min**

Note: Highlighted cell indicates assumed value for fixture type not identified in AWWA M22. For a LEED project utilizing low flow fixtures throughout the building, the low flow flush valve typically has a water use of 50% less than a standard flush valve. The fixture value in this table has been conservatively reduced by only 25% from the standard flush valve fixture value.

FIRE FLOW ESTIMATE FORM

ISO (Insurance Service Office) Method of Calculating Needed Fire Flow NFF (Needed Fire Flow)

ENGINEER: Kimley-Horn — DATE: 7/6/2023
PROJECT NAME: HOME DEPOT — CALC. BY: MFB

TYPE OF CONSTRUCTION: MOF. FIRE RESISTIVE C-4
Class of Construction Coefficient = **F**: 0.8

GROUND FLOOR AREA: 107,504 # OF STORIES 1
Total Floor Area = A_t (effective area) 107504

FIRE AREA CONSIDERED

Construction Factor $C_i = 18\ (F)\ (A_t)^{0.5}$ (ROUNDED TO NEAREST 250 GPM) C_i: 4,750

TYPE OF OCCUPANCY: FREE-BURNING C-4
(Worst Case) Occupancy Factor = O_i: 1.15

EXPOSURE (X) AND COMMUNICATION (P):
$X_1 + P_1$ = 0.00 $X_4 + P_4$ = ____
$X_2 + P_2$ = ____ $X_5 + P_5$ = ____
$X_3 + P_3$ = ____ $X_6 + P_6$ = ____

$(X+P)_t = 1.0 + E(X_i+P_i)$ =

(Max. X +Pi = 1.75) 1.00
(n = NUMBER OF SIDES OF SUBJECT BUILDING)

NEEDED FIRE FLOW

$NFF = (C_i)\ (O_i)\ (X+P)_t$ NFF = 5,463

Automatic Sprinklers: YES Reduction Factor: 50% % X NFF = - 2731

TOTAL: 2,731

Required Fire Flow - Rounded: 2,750 gpm

Fire Hydrants Required*: 3

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT

SIGNATURE: **David Ellington** _____ **P.E.**

* COMMERCIAL AREA REQUIRES 350 FT. MAXIMUM HOSE LAY

References: NFF calculation procedure described in A.W.W.A. M-31, I.S.O.'s 1980 Commercial Fire Rating Schedule and I.S.O.'s 1980 Fire Suppression Rating Schedule.

3/94 Form F-9

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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COMMONWEALTH OF VIRGINIA
DAVID B. ELLINGTON
Lic. No. 043905
11/17/2023
PROFESSIONAL ENGINEER

KHA PROJECT 113226001
DATE 11/17/2023
SCALE AS SHOWN
DESIGNED BY DHL
DRAWN BY RAT
CHECKED BY DBE

UTILITY DETAILS

HOME DEPOT

VA
ALBEMARLE

SHEET NUMBER
CU-502

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CU-502 UTILITY DETAILS November 17, 2023 10:47:30pm K:\NC_CU\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CU-501 UTILITY PROFILES & DETAILS.dwg
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PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CALIPER/HEIGHT	REMARKS
AB	16	Acer buergerianum	Trident Maple	B & B	2" CAL	Strong Central Leader, Matched.
AR	20	Acer rubrum 'October Glory'	October Glory Red Maple	B & B	2.5"Cal	Strong Central Leader, Matched.
QP	26	Quercus phellos 'QPSTA'	Hightower® Willow Oak	B & B	2.5"Cal	Strong Central Leader, Matched.
QR	16	Quercus rubra	Red Oak	B & B	2.5"Cal	Strong Central Leader, Matched.
QS	4	Quercus shumardii	Shumard Oak	B & B	3.5"Cal	Strong Central Leader, Matched.
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CALIPER/HEIGHT	REMARKS
AG	6	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Apple Serviceberry	B & B	2.5"Cal	Single Stem; Strong Central Leader, Matched.
CF	6	Cercis canadensis 'Forest Pansy'	Forest Pansy Eastern Redbud	B & B	6` HT MIN.	Strong Central Leader, Matched.
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CALIPER/HEIGHT	REMARKS
IX	23	Ilex x 'Nellie R. Stevens'	Nellie R. Stevens Holly	B & B	6` HT MIN.	Full To Ground, Dense.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	REMARKS
IC	33	Ilex cornuta 'Burfordii Nana'	Dwarf Burford Holly	Cont.	24" HT MIN.	Full To Base, Dense.
IG	51	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	Cont.	24" HT MIN.	Full To Ground, Dense.
PL	53	Prunus laurocerasus 'Schipkaensis'	Schipka English Laurel	Cont.	24" HT MIN.	Full To Ground, Dense.

GENERAL NOTES

1. SOD ALL AREAS WITHIN PROPERTY LIMITS THAT ARE NOT COVERED WITH MULCHED PLANT BEDS, STONE MULCH, BUILDINGS, HARDSCAPE, PAVEMENT, OR OTHERWISE NOTED.
2. SEED WITH PERMANENT LAWN GRASS ALL AREAS WITHIN THE RIGHT OF WAY'S WHICH ARE NOT OTHERWISE COVERED WITH PLANTING BEDS, PAVEMENT,BUILDINGS, OR HARDSCAPE, PER THE SEEDING SPECIFICATIONS ON SHEET CP-501.
3. EXISTING TREES AND SHRUBS INDICATED TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY INSTALLING TREE PROTECTIVE FENCING PER THE PROJECT PLANS AND SPECIFICATIONS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN IRRIGATION PLAN AND INSTALLATION OF THE IRRIGATION SYSTEM. SEE SHEET CP-501 FOR GENERAL LANDSCAPE NOTES, PARAGRAPH R.
5. SEE SHEET CP-501 FOR PLANTING NOTES AND DETAILS.

GENERAL LANDSCAPING NOTES

1. ALL LANDSCAPING SHALL BE INSTALLED BY THE FIRST PLANTING SEASON FOLLOWING THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY WITHIN THE DEVELOPMENT.
2. ALL LANDSCAPING AND SCREENING SHALL BE MAINTAINED IN A HEALTHY CONDITION BY THE CURRENT OWNER OR A PROPERTY OWNERS' ASSOCIATION. REPLACEMENT MATERIAL SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN.
3. ALL SITE PLANTINGS OF TREES AND SHRUBS SHALL BE ALLOWED TO REACH, AND BE MAINTAINED AT, MATURE HEIGHT, THE TOPPING OF TREES IS PROHIBITED. SHRUBS AND TREES SHALL BE PRUNED MINIMALLY AND ONLY TO SUPPORT THE OVERALL HEALTH OF THE PLANT.

RIO ROAD E (STATE ROUTE 631)

SEMINOLE TRAIL (STATE ROUTE 29)

FASHION SQUARE DR

GARDEN CENTER 28,116 S.F.

PLANT BED EDGE, TYP.

MULCH ENTIRE BED, TYP.

EXISTING TREES TO REMAIN, TYP.

LAWN, TYP.

EXISTING RETAINING WALL, TYP.

PROPOSED RETAINING WALL BY OTHERS

TREE MULCH RING, TYP.

MULCH ENTIRE ISLAND, TYP.

GEN

THE HOME DEPOT

BUILDING	108,283 S.F.
VESTIBULES	1,348 S.F.
GARDEN CENTER	28,116 S.F.
	137,747 S.F.

VERIFY ACTUAL BLDG. AREA WITH ARCHITECTURAL BLDG. PLAN

HOME DEPOT PARKING LOT LANDSCAPE REQUIREMENT - SEC. 32.7.9.6 AND ENTRANCE CORRIDOR OVERLAY

Required SF	*Required Trees*	*Calulation*	*Provided*
5% of parking paved area.	1 Tree for every 10 parking spaces provided	412,078 SF x .05 = 20,603 SF 425 /10 =42.5 Trees	48,418.26 SF *80 Large Trees*

TREE CANOPY REQUIREMENT CALCULATIONS (as noted in Sec. 32.7.9.8)

Gross Site Area			**9.460 Acres**	**412,078 SF**
Tree Canopy Required			10%	**41,208 SF**
Proposed Tree Canopy				**27,201 SF**
Tree Canopy Existing to Remain		**1.25**	14,014 SF	**17,518 SF**
Tree Canopy Provided (Total)			*(Refer to Tree Canopy Breakdown)*	**44,719 SF**

TREE CALCULATION BREAKDOWN

Qty.	Type	Size	10 Yr. Canopy Coverage	Provided
10	Acer buergerianum	2.5" Cal. Min.	125 SF	1,250 SF
17	Acer rubrum 'October Glory'	2.5" Cal. Min.	397 SF	6,749 SF
25	Quercus phellos 'QPSTA'	2.5" Cal. Min.	370 SF	9,250 SF
19	Quercus rubra	2.5" Cal. Min.	424 SF	8,056 SF
6	Amelanchier x grandiflora 'Autumn Brillance'	2.5" Cal. Min.	130 SF	780 SF
9	Cersis canadensis 'Forest Pansy''	2.5" Cal. Min.	124 SF	1,116 SF
			Total:	**27,201 SF**

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

No.	REVISIONS	DATE	BY

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COMMONWEALTH OF VIRGINIA
ROBBIE D. ROACH
Lic. No. 1870
12/12/2023
LANDSCAPE ARCHITECT

KHA PROJECT	113226001
DATE	12/12/2023
SCALE	AS SHOWN
DESIGNED BY	JTS
DRAWN BY	JTS
CHECKED BY	RDR

PLANTING PLAN

HOME DEPOT — ALBEMARLE VA

SHEET NUMBER
CP-101

Plotted By: Scott, Justin - Sheet Set: PHT Greatest Length: CP-101 PLANTING PLAN January 16, 2024 04:09:05pm K:\RIC_CIV\113226001 — HD Fashion Square Mall\CAD\PlanSheets\CP-101 PLANTING PLAN.dwg
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1. ALL TOPSOIL SHALL BE A MINIMUM 4" IN ALL SOD AREAS AND 10" - 12" IN TREE, SHRUB AND GROUND COVER BEDS, INCLUDING PARKING LOT ISLAND BEDS. IT SHALL BE APPROVED BY A CONSTRUCTION REPRESENTATIVE, PRIOR TO INSTALLATION.

2. PLANTING BEHIND PERPENDICULAR PARKING IS TO BE LOCATED A MINIMUM OF 5' BEHIND THE CURB LINE.

3. ALL LANDSCAPE AND GRASS AREAS ARE TO BE HAND RAKED AND LEFT CLEAR OF ALL STONES, ROCK, CONSTRUCTION DEBRIS AND ANY UNSUITABLE MATERIALS.

4. ALL LANDSCAPE AND GRASS AREAS ARE TO BE IRRIGATED BY AUTOMATIC SPRINKLER SYSTEM. (SEE IRRIGATION SPECIFICATION.)

5. LANDSCAPE CONTRACTOR WILL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND PLANTING INSTALLATION.

6. ALL AREAS TO BE LANDSCAPED OR COVERED WITH STONE MUST BE TREATED WITH A PRE-EMERGENCE HERBICIDE (SURFLAN, DACTAL OR APPROVED EQUAL) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE REGULATIONS AND THE MANUFACTURER'S INSTRUCTIONS.

7. MULCH BEDS ARE TO BE DELINEATED WITH HAND OR MACHINE DUG SHOVEL EDGING.

8. LANDSCAPE CONTRACTOR TO SUPPLY AND INSTALL A PERVIOUS WEED BARRIER (DEWITT, DUPONT OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITHIN ALL LANDSCAPES, INCLUDING STONE AND MULCH BEDS. ALL WEED BARRIER WILL BE OVERLAPPED A MINIMUM OF 6" AT ALL SEAMS. AT PLANT LOCATIONS, BARRIER SHOULD BE CUT IN AN "X" PATTERN SO TO ACCOMMODATE ROOT BALL AND REPLACED AFTER PLANT HAS BEEN INSTALLED.

9. WEED BARRIER SHALL NOT BE VISIBLE IN AREAS DESIGNATED FOR STONE MULCH. WHEN STONE IS CALLED FOR ADJACENT TO CURB OR SIDEWALKS, IT SHALL BE FEATHERED DOWN TO CURB LEVEL FROM A DISTANCE 24" FROM THE CURB.

10. ALL PROPOSED LANDSCAPING TO BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY. THEY ARE TO HAVE NORMAL VIGOROUS ROOT SYSTEMS, FREE FROM DEFECTS AND INFECTIONS AND IN ACCORDANCE WITH ANSI Z60.1

11. ALL PROPOSED PLANTINGS SHOULD BE INSTALLED PER STANDARDS OF THE "AMERICAN ASSOCIATION OF NURSERYMEN" AND STATE NURSERY/ LANDSCAPE ASSOCIATIONS WITH REGARD TO PLANTING, PIT SIZE, BACKFILL MIXTURE, STAKING AND GUYING.

12. ALL PLANTING CONTAINERS AND BASKETS SHALL BE REMOVED DURING PLANTING. ALL PLANTS SHALL BE SET PLUMB AND POSITIONED SO THAT THE TOP OF THE ROOT COLLAR MATCHES, OR IS NO MORE THAN TWO (2") INCHES ABOVE, FINISHED GRADE. REPLACE AMENDED BACKFILL IN 6-INCH LAYERS AND COMPACT BACKFILL TO ELIMINATE VOIDS. CONTRACTOR SHALL PROVIDE A FOUR-INCH HIGH EARTHEN WATERING SAUCER ALONG THE PERIMETER OF EACH PLANTING PIT. CONTRACTOR SHALL WATER NEWLY PLANTED VEGETATION PRIOR TO MULCHING PLANTING PIT. ALL VOIDS SHALL BE FILLED AND SETTLING MITIGATED AS REQUIRED. ALUMINUM EDGING SHALL BE INSTALLED AROUND ALL PLANTING AREAS TO DELINEATE BETWEEN DIFFERENT LANDSCAPE MATERIALS.

13. AFTER INITIAL WATERING AND PRIOR TO MULCHING, CONTRACTOR SHALL APPLY HERBICIDES AND PRE-EMERGENT HERBICIDES AS REQUIRED TO ELIMINATE ANY WEED SEEDS OR PLANTS PRESENT ON ROOT BALL.

14. ALL PLANTING BEDS AND PITS EXCEPT FOR LANDSCAPE ISLANDS ADJACENT TO THE BUILDING AND DESIGNATED AREA AT THE FUEL VENT STACKS, SHALL BE MULCHED WITH DOUBLE GROUND HARDWOOD MULCH AT A MINIMUM DEPTH OF 3". LANDSCAPE ISLANDS ADJACENT TO THE TANK MAT SHALL BE MULCHED WITH 1"-3" "RIVER STONE" MULCH TO AT LEAST TO A DISTANCE OF 5' FROM THE TANK MAT AND VENT STACK. FOR LANDSCAPES ADJACENT TO BUILDING, CONTACT PROJECT ENGINEER.

15. SEEDBED PREPARATION

   A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS OR FERTILIZER MAY BE APPLIED AT THE RATE OF 260 POUNDS PER ACRE OR 6 POUNDS PER 1000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 4-1-2 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING.

   B. WORK LIME AND FERTILIZER INTO THE SOIL AS PRACTICAL TO A DEPTH OF 4-INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD PARALLEL TO THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

   C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS OUTLINED BELOW.

   D. UNLESS REQUIRED FOR PARTICULAR BMP AREAS, ALL TURF ON LEASED PREMISES IS TO BE SOD. WHEN REQUIRED FOR BMP'S, SEED MIX IS TO MEET LOCAL REQUIREMENTS. SOD SHALL BE TURF TYPE TALL FESCUE AND INSTALLED ON A MINIMUM OF 4" OF TOPSOIL.

16. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETENESS. THE CONTRACTOR SHALL REPLACE PLANTS, DEAD, UNHEALTHY, DYING OR DAMAGED THROUGH LOSS OF BRANCHES AND/OR FOLIAGE. LAWNS THAT ARE NOT IN GOOD CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPAIRED UNTIL A GOOD LAWN RESULTS. *IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREA BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETENESS.*

A. CONTRACTOR SHALL REVIEW ALL DRAWINGS, SPECIFICATIONS, PERMITS, AND REGULATORY REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED LANDSCAPING AND IRRIGATION PERMITS.

C. CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS PROVIDED BY OTHERS.

D. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" OF VIRGINIA @ 1-800-552-7001 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.

E. FINAL LOCATION OF ALL PLANTINGS SHALL BE DETERMINED IN THE FIELD BY THE OWNER'S CHOSEN REPRESENTATIVE.

F. SUBSTITUTIONS AND/OR MODIFICATIONS TO PLANTING LAYOUT, PLANT MATERIALS, ETC. SHALL NOT BE MADE WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.

G. CONTRACTOR SHALL INSTALL ALL PLANT MATERIALS AS SHOWN IN THE DETAILS, AND AS INDICATED IN THE LANDSCAPE SPECIFICATIONS.

H. THE PLANTING OF TREES SHALL BE DONE IN ACCORDANCE WITH THE STANDARDIZED LANDSCAPE SPECIFICATIONS JOINTLY ADOPTED BY THE VIRGINIA NURSERYMEN'S ASSOCIATION, THE VIRGINIA SOCIETY OF LANDSCAPE DESIGNERS AND THE VIRGINIA CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.

I. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST ADDITION OF ANSI Z60.1, AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.

J. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK AND SHALL BE FREE OF ANY DEFORMITIES, DISEASES, OR INSECT DAMAGE. ANY MATERIALS WITH DAMAGED OR DISFIGURED/ CROOKED LEADERS, BARK ABRASIONS, SUNSCALD, INSECT DAMAGE, ETC., ARE NOT ACCEPTABLE AND WILL BE REJECTED.

K. TREES NOT EXHIBITING A CENTRAL LEADER WILL BE REJECTED UNLESS CALLED OUT IN THE PLANT LIST AS MULTI-STEM.

L. ALL PLANTING BEDS AND LAWN AREAS SHALL BE SEPARATED BY SHOVEL EDGING. NO EDGE SHALL BE INSTALLED ADJACENT TO SIDEWALKS OR CURBS.

M. PLANTING BEDS SHALL RECEIVE 3" OF DARK, SHREDDED HARDWOOD MULCH THROUGHOUT. ORANGE AND/ OR RED MULCH IS NOT ACCEPTABLE.

N. ALL AREAS ON PLANS NOT INDICATED TO RECEIVE SOD PLANTING, PAVEMENT, OR HARDSCAPE WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED WITH FESCUE, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. SEE SEEDING NOTES THIS SHEET.

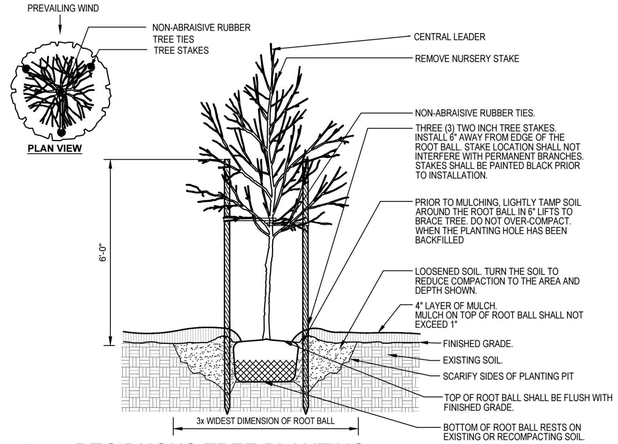
O. PLANT MATERIALS SHOWN ON PLANS ARE A GRAPHIC REPRESENTATION ONLY. CONTRACTOR SHALL PERFORM ALL LANDSCAPE INSTALLATION ON THE SUBJECT PROPERTY, AND NOT ON ADJACENT PROPERTIES, UNLESS OTHERWISE DIRECTED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. ROOTBALLS OF SHRUBS AND TREES SHALL BE PLANTED, IN THEIR ENTIRETY, WITHIN THE BOUNDARIES OF THE SUBJECT PROPERTY.

P. CONTRACTOR SHALL PROVIDE A MINIMUM 2% SLOPE AWAY FROM ALL STRUCTURES, UNLESS OTHERWISE DIRECTED BY THE CIVIL ENGINEER.

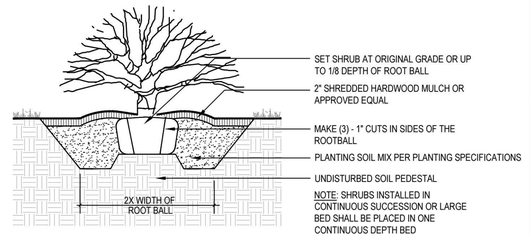
Q. QUANTITY TAKE-OFFS INDICATED ON THE PLANTING SCHEDULE ARE FOR CONVENIENCE ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE SCHEDULE, THE GRAPHIC REPRESENTATION IN THE PLANS SHALL DICTATE.

R. ALL LANDSCAPED AND LAWN AREAS ARE TO BE IRRIGATED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TURNKEY DESIGN BUILD IRRIGATION SYSTEM AS PART OF THE BASE BID FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE AN IRRIGATION PLAN AND PRODUCT CUT SHEETS FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO BEGINNING WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING IRRIGATION SLEEVING AS SHOWN ON THE LANDSCAPE PLAN PRIOR TO INSTALLATION OF PAVING MATERIALS.

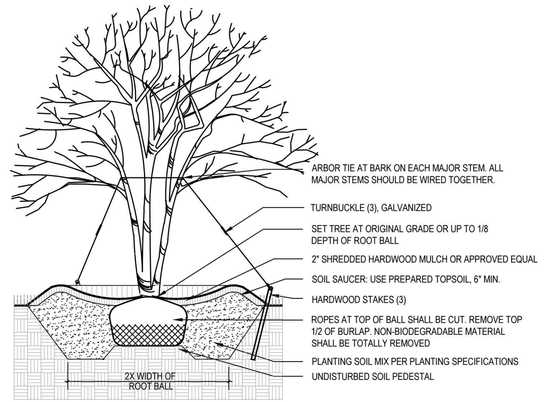
S. ALL MULCHED BEDS SHALL HAVE AN APPROVED GEO-TEXTILE WEED BARRIER INSTALLED PER THE PLANTING DETAILS . PRODUCT SPECIFICATION SHEETS SHALL BE SUBMITTED TO THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ORDERING MATERIAL.



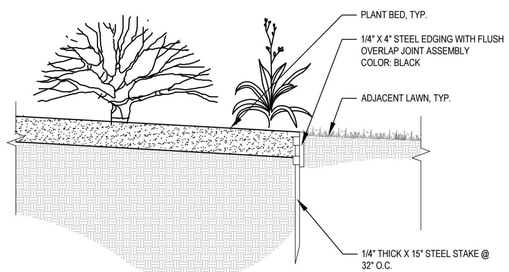
1 DECIDUOUS TREE PLANTING
NOT TO SCALE



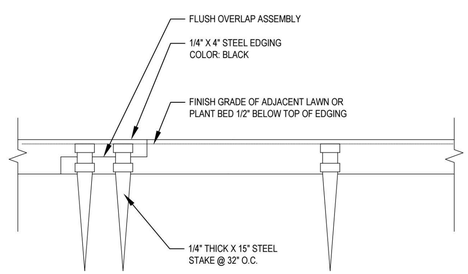
4 SHRUB PLANTING
NOT TO SCALE



2 ORNAMENTAL TREE PLANTING
N.T.S



SECTION



ELEVATION

3 Steel Edging
1/4"=1'-0"

No.	REVISIONS	DATE	BY
1	CUP SUBMITTAL REVISION	10/16/2023	DE

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COMMONWEALTH OF VIRGINIA
ROBBIE D. ROACH
Lic. No. 1870
11/17/2023
LANDSCAPE ARCHITECT

KHA PROJECT	113226001
DATE	11/17/2023
SCALE	AS SHOWN
DESIGNED BY	JTS
DRAWN BY	JTS
CHECKED BY	RDR

PLANTING NOTES AND DETAILS

HOME DEPOT
ALBEMARLE VA

SHEET NUMBER
CP-501

Plotted By: Tejada, Rafael Sheet Set: PMT Sheetset Layout: CP-501 PLANTING NOTES AND DETAILS November 17, 2023 10:49:45pm K:\VNC_Civil\113226001 - HD Fashion Square Mall\CAD\PlanSheets\CP-501 PLANTING NOTES AND DETAILS.dwg
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