DOEE APPROVAL STAMPS

STORMWATER MANAGEMENT NOTE

THIS PROJECT IS EXEMPT FROM THE PROVISIONS OF THE STORMWATER MANAGEMENT REQUIREMENTS OF 21 DCMR, PURSUANT TO CHAPTER 5 PER 21 DCMR 517.1. CONSTRUCTION/IMPROVEMENTS SHOWN DO NOT QUALIFY AS A MAJOR LAND-DISTURBING ACTIVITY OR MAJOR SUBSTANTIAL IMPROVEMENT AS DEFINED UNDER 21 DCMR 599.1.

UTILITY INFORMATION

EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED. UTILITY LOCATIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY.

UTILITY	REQUEST DATE	BY	INFO RECEIVED	PLAN REVISED	BY
AT&T	04/04/2018	JAK	05/01/2018	NO FACILITIES	–
COMCAST	04/04/2018	JAK	04/04/2018	05/18/2018	JAK
MCI/WORLDCOM	04/04/2018	JAK	PENDING	–	–
PEPCO	04/04/2018	JAK	PENDING	–	–
VERIZON	04/04/2018	JAK	04/23/2018	05/18/2018	JAK
WASH. GAS	04/04/2018	JAK	04/17/2018	05/18/2018	JAK
DC SEWER	04/04/2018	JAK	04/12/2018	05/18/2018	JAK
DC WATER	04/04/2018	JAK	04/12/2018	05/18/2018	JAK

MISS UTILITY

FOR LOCATION OF UTILITIES, CALL "MISS UTILITY" AT 1-800-257-7777, OR LOG ON TO WWW.MISSUTILITY.NET/ITIC 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL JURISDICTIONAL REQUIREMENTS.

GENERAL NOTES

1) TWO-FOOT CONTOUR DATA BASED ON A SURVEY PERFORMED BY CAS ENGINEERING, DATED MAY, 2018.

2) PARTIAL BOUNDARY INFORMATION BASED ON A SURVEY PERFORMED BY CAS ENGINEERING, DATED MAY, 2018.

3) ZONING: R-20
   MINIMUM LOT WIDTH = 40 FEET
   MINIMUM LOT AREA = 4,000 SQUARE FEET
   MAXIMUM BUILDING HEIGHT = 35 FEET / 3 STORIES
   FRONT B.R.L. = NONE PER DC SURVEYORS OFFICE
   MINIMUM REAR YARD = 20 FEET
   MINIMUM SIDE YARD = 5 FEET
   MAXIMUM LOT OCCUPANCY = 40%
   MINIMUM PERVIOUS SURFACE COVERAGE = 20%

   NOTE: SITE IS LOCATED IN THE GEORGETOWN HISTORIC DISTRICT, IS THE SITE OF THE FOXALL-McKENNEY HOUSE, AND THE COMMISSION OF FINE ARTS JURISDICTION AREA AND MAY BE SUBJECT TO ADDITIONAL REVIEW/REQUIREMENTS.

4) TOTAL LOT AREA: LOT 831 = 14,716 SQUARE FEET (0.338 ACRES)

5) PROJECT IS WITHIN FLOOD ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER FEMA FLOOD INSURANCE RATE MAP PANEL No. 11000100016C.

6) FINAL GAS AND ELECTRIC ALIGNMENT SUBJECT TO UTILITY COMPANY APPROVAL. FOR FIELD LOCATION AND ABANDONMENT / REMOVAL OF GAS MAINS AND SERVICE CONNECTIONS, CONTRACTOR SHALL NOTIFY WASHINGTON GAS LIGHT COMPANY, (703) 750-1000, 72 HOURS PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION.

7) EX. WATER AND SEWER LINES TO BE "TEST -PITTED" PRIOR TO CONSTRUCTION. PROPOSED WATER AND SEWER TO BE ADJUSTED HORIZONTALLY AND VERTICALLY AS NECESSARY. COORDINATE ANY MODIFICATIONS WITH DC WATER INSPECTOR AND CAS ENGINEERING-DC, LLC AS APPROPRIATE. THE CONTRACTOR SHALL HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND CONNECTING POINTS TO DETERMINE THE EXACT LOCATION AND DEPTH WELL IN ADVANCE OF CONSTRUCTION.

8) D.C. STANDARD DETAILS WHERE SHOWN ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL OBTAIN THE MOST CURRENT APPLICABLE D.C. DETAILS AND STANDARDS AND PERFORM CONSTRUCTION ACCORDINGLY.

9) CONTRACTOR SHALL CONTACT DEPARTMENT OF PUBLIC WORKS – PUBLIC SPACE MAINTENANCE ADMINISTRATION, 48 HOURS PRIOR TO START OF CONSTRUCTION, AT (202) 645-7050.

10) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REPLACING AND/OR RESTORING ANY AND ALL UTILITY SERVICE CONNECTIONS DISTURBED DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE ACTIVE/INACTIVE STATUS OF ANY EXISTING UTILITIES ENCOUNTERED ON SITE AND ABANDON OR RELOCATE AS APPROPRIATE. ABANDONMENT SHALL BE IN ACCORDANCE WITH DC WATER STANDARDS AND DETAILS.

11) CONTRACTOR IS TO VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND NOTIFY CAS ENGINEERING AT (202) 393-7200 IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.

12) THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN PUBLIC SPACE IN ACCORDANCE WITH D.C. DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, LATEST EDITION. THE CONTRACTOR SHALL OBTAIN SAID SPECIFICATIONS.

13) CONTRACTOR SHALL OBTAIN OR ENSURE THAT OTHERS HAVE OBTAINED ALL NECESSARY PERMITS AND APPROVALS PRIOR TO PROCEEDING WITH DEMOLITION/RAZING OF EXISTING IMPROVEMENTS AND CONSTRUCTION OF NEW IMPROVEMENTS.

PROJECT NARRATIVE

THIS PROJECT PROPOSES TO RECONSTRUCT AND EXPAND AN EXISTING DRIVEWAY APRON ACCESSING A SINGLE-FAMILY DETACHED RESIDENTIAL DWELLING.

SITE CONSTRUCTION NOTES

1) PROPOSED UTILITY LOCATIONS SUBJECT TO FIELD MODIFICATION AND UTILITY COMPANY APPROVAL.

2) CONTRACTOR TO ADJUST ALL EXISTING UTILITY TOPS (I.E. CLEANOUTS, MANHOLES, VALVE COVERS, ETC.) TO FINAL GRADE WHERE NECESSARY.

3) CONTRACTOR TO COORDINATE ABANDONMENT OF ALL EXISTING UTILITIES AS NECESSARY.

4) CONTRACTOR TO COORDINATE ON-SITE UTILITY CROSSINGS TO ENSURE ADEQUATE SEPARATION AT INTERSECTIONS.

5) TEST PIT ALL UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION, ANY FIELD MODIFICATION TO BE COORDINATED WITH APPROPRIATE UTILITY, CAS ENGINEERING-DC, LLC, AND/OR DC INSPECTOR.

6) PROPOSED RETAINING WALLS AND OTHER STRUCTURAL APPURTENANCES/FEATURES SHOWN ARE TO BE DESIGNED BY OTHERS, TYPICAL.

7) FOR FINAL LANDSCAPE/HARDSCAPE DETAILS, SPECIFICATIONS, ELEVATIONS, AND DIMENSIONS SEE LANDSCAPE PLANS, POOL PLANS, OR ARCHITECTURAL PLANS, AS APPROPRIATE.

8) ANY NECESSARY TREE PROTECTION MEASURES, FOR ON-SITE OR OFF-SITE TREES, ARE TO BE ADDRESSED BY OTHERS.

9) CONTRACTOR TO MAINTAIN DRAINAGE FACILITIES ON AND THROUGH THE SITE AT ALL TIMES DURING CONSTRUCTION. UTILIZE TEMPORARY FACILITES/FEATURES AND/OR CONNECTIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

10) CONTRACTOR TO COMPLETE SITE GRADING AND PAVING TO ENSURE POSITIVE DRAINAGE TO ALL INLETS OR NATURAL DRAINAGE COURSES TO PREVENT PONDING AND THE CREATION OF LOW SPOTS.

11) CONTRACTOR TO REVIEW TIE IN POINTS WITH EXISTING PAVING AND GRADING WHERE PROPOSED ON AND ADJACENT TO PROJECT SITE, ADJUST WITH TRANSITIONS AND COORDINATE WITH CAS ENGINEERING AS APPROPRIATE.

12) CONTRACTOR RESPONSIBLE FOR ENSURING THAT ROUTES MEET AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS, WHERE REQUIRED/APPLICABLE, 5% MAXIMUM SLOPE, 2% MAXIMUM CROSS SLOPE. CONTRACTOR ALSO RESPONSIBLE FOR ENSURING THAT RAMPS MEET ADA REQUIREMENTS, WHERE REQUIRED/APPLICABLE, 8.3% MAXIMUM SLOPE AND 2% MAXIMUM CROSS SLOPE.

13) CONTRACTOR TO MAINTAIN FIRE DEPARTMENT AND EMERGENCY ACCESS ROUTES TO SITE AND TO APPLICABLE APPURTENANCES (I.E. FIRE HYDRANTS) DURING CONSTRUCTION UNLESS PRIOR APPROVAL IS OBTAINED FROM APPROPRIATE DISTRICT AGENCIES.

TREE PROTECTION NOTES

CONTRACTOR TO SECURE ALL NECESSARY PERMITS, AND COORDINATE ANY DISTURBANCE WITHIN CRITICAL ROOT ZONE OR DRIP LINE OF STREET TREES WITH DDOT URBAN FORESTRY ARBORIST. DDOT UFA WARD 2 ARBORIST = REBECCA SCHWARTZ, rebecca.schwartz@dc.gov, (202) 779-2370.

1) STREET TREES TO BE PROTECTED WITH A 6-FT. TALL CHAIN LINK FENCE TO THE EXTENT OF THE TREE BOX (MINIMUM 4' x 9') OR THE DRIP LINE IN A PLANTING STRIP. DRIP LINE IS THE GROUND AREA UNDER THE CANOPY OF A TREE.

2) ALL TREE PROTECTION MEASURES AND EXCAVATION SHALL COMPLY WITH 2013 DDOT STANDARD SPECIFICATIONS (GOLD BOOK), SECTIONS 207.03, 608.07 AND 608.08.

3) NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE ROOT ZONE OF A STREET TREE WITHOUT DDOT UFA PERMISSION: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL OR DEBRIS, DISPOSAL OF ANY LIQUIDS (E.G. CONCRETE, GAS, OIL, PAINT AND BLACKTOP), AND TRENCHING.

4) SILT FENCE AND SUPER SILT FENCE ARE PROHIBITED WITHIN THE ROOT ZONE OF A STREET TREE. TRENCHLESS METHODS SUCH AS FILTER LOGS, STRAW BALES OR APPROVED EQUIVALENTS SHALL BE USED.

5) ROOT ZONE IS MEASURED AT 4.5-FT. ABOVE GRADE FROM THE NEAR SIDE OF THE TRUNK TO THE DISTANCE THAT EQUALS THE TREE DIAMETER x 1.5-FEET OR TO THE DRIP LINE OF A STREET TREE, WHICHEVER IS GREATER.

6) NO HEAVY EQUIPMENT SHALL BE USED TO REMOVE EXISTING HARDSCAPE WITHIN THE DRIP LINE OF AN EXISTING STREET TREE.

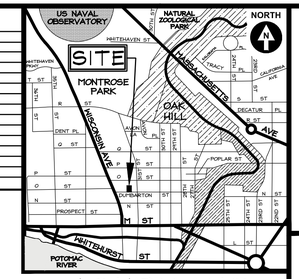
7) EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES AND ROOTS.

8) NO ROOTS GREATER THAN TWO (2) INCHES IN DIAMETER SHALL BE CUT WITHOUT DDOT UFA PERMISSION. EXPOSED ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.

9) IF THERE ARE ANY TREE CONFLICTS ON THIS JOB SITE, THE PERMIT HOLDER MUST SUSPEND ALL WORK THAT CONTRIBUTES TO THE CONFLICT AND CONTACT THE DDOT UFA WARD ARBORIST TO RECEIVE CLEARANCE TO CONTINUE.

10) IF A STREET TREE REQUIRES REMOVAL, APPLICANT MUST APPLY FOR A CONSTRUCTION/EXCAVATION PERMIT FOR ITS REMOVALS AS PER THE FOLLOWING – HEALTHY STREET TREE: LANDSCAPING – TREE REMOVAL @ $200 PER INCH DIAMETER OR UNHEALTHY STREET TREE: LANDSCAPING – TREE REPLACEMENT @ 1:1 REPLACEMENT PLANTING.

INDEX OF CIVIL DRAWINGS

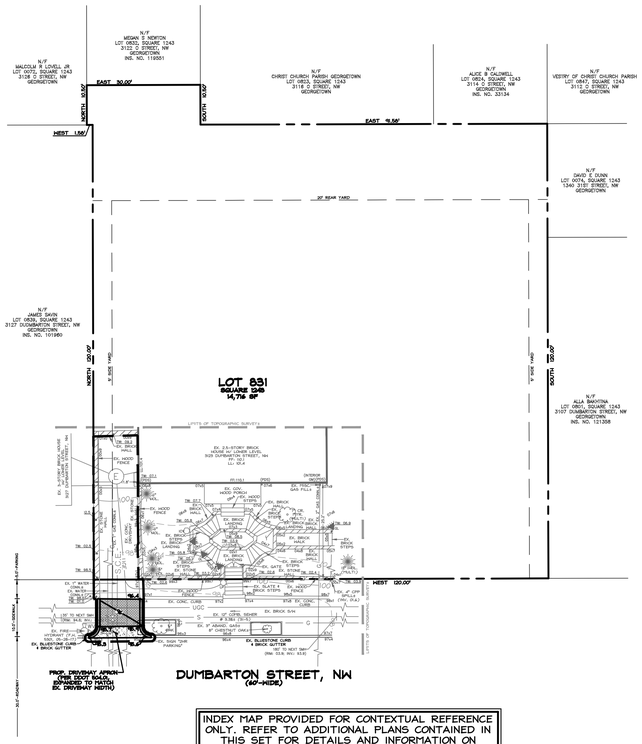


VICINITY MAP

ADC MAP 5528, GRID A-5
SCALE: 1" = 2000'

INDEX MAP/OVERALL PLAN

SCALE: 1"=20'



INDEX MAP PROVIDED FOR CONTEXTUAL REFERENCE ONLY. REFER TO ADDITIONAL PLANS CONTAINED IN THIS SET FOR DETAILS AND INFORMATION ON PROPOSED CONSTRUCTION ACTIVITIES.

PERMIT APPLICATION NUMBERS

DDOT OCCUPANCY NUMBER	–
DDOT CONSTRUCTION NUMBER	–
DC WATER NEW CONSTRUCTION MAXIMO	N/A
DC WATER RAZE MAXIMO	N/A
DOEE PLAN NUMBER	s16759
DOEE RAZE NUMBER	N/A
DCRA BUILDING PERMIT NUMBER	–
DCRA RAZE PERMIT NUMBER	N/A

SEE SHEET CIV002 FOR SUPPLEMENTAL COVER SHEET NOTES

CAS ENGINEERING-DC, LLC
Experience you can build on.

CAS ENGINEERING-DC, LLC
1001 Connecticut Avenue, NW
Suite 401
Washington, DC 20036
(202) 393-7200 Phone
www.cas-dc.com
info@cas-dc.com

CIVIL • SURVEYING • LAND PLANNING

OWNER/CLIENT
VAL HAWKINS ARCHITECT
ATTN: VAL HAWKINS, AIA
3123 DUMBARTON STREET, NW
WASHINGTON, DC 20007
(202) 674-9226 (PHONE)
val@vhawkins.com

ARCHITECT
VAL HAWKINS ARCHITECT
ATTN: VAL HAWKINS, AIA
3123 DUMBARTON STREET, NW
WASHINGTON, DC 20007
(202) 674-9226 (PHONE)
val@vhawkins.com

LOT 0831, SQUARE 1243
GEORGETOWN

3123 DUMBARTON STREET, NW

N.W. WASHINGTON, DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 09/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DISTRICT OF COLUMBIA · DAVID C. LANGMAN · PE906954 · CIVIL · PROFESSIONAL ENGINEER

02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	1"=20'

10 0 10 20 40
SCALE: 1 INCH = 20 FEET

NORTH

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

CIVIL COVER SHEET

CIV001

SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT PROPOSES TO RECONSTRUCT AN EXISTING DRIVEWAY ACCESSING A LOT APPROXIMATELY 14,716 SQUARE FEET IN SIZE.
THE TOTAL DISTURBED AREA = 700 SQUARE FEET±.
PROJECTED EARTHWORK QUANTITIES ARE:
CUT = 10 CUBIC YARDS, FILL = 10 CUBIC YARDS.

EXISTING SITE CONDITIONS

THIS LOT CURRENTLY IMPROVED WITH A DETACHED SINGLE–FAMILY RESIDENTIAL DWELLING.

ADJACENT AREAS

THIS NEIGHBORHOOD CAN BE CHARACTERIZED AS RESIDENTIAL. THIS PARTICULAR LOT IS BOUNDED TO THE NORTH, EAST, AND WEST BY RESIDENTIAL LOTS AND TO THE SOUTH BY DUMBARTON STREET, NW.

OFF–SITE AREAS

THERE IS NOT AN ANTICIPATED NEED FOR A BORROW OR SPOILS SITE. IF NECESSARY, A SITE WILL BE LOCATED DURING CONSTRUCTION ACTIVITIES, BASED ON THE STATUS OF OTHER CONSTRUCTION SITES IN THE VICINITY.

CRITICAL AREAS

NONE EXIST ON THIS SITE.

SOILS

THE SOILS ON SITE CONSIST OF UsB (URBAN LAND–MANOR COMPLEX) SOILS. UsB SOILS CONSIST OF AREAS OF URBAN LAND AND WELL DRAINED TO SOMEWHAT EXCESSIVELY DRAINED MANOR SOILS, MOST AREAS OF WHICH HAVE BEEN GRADED, CUT, FILLED, OR OTHERWISE DISTURBED DURING URBANIZATION. EXAMINATION AND IDENTIFICATION OF SOILS OR SOIL–LIKE MATERIALS IN THIS UNIT IS IMPRACTICAL BECAUSE SOILS ARE LARGELY COVERED BY IMPERVIOUS SURFACES. CAREFUL ONSITE INVESTIGATION IS RECOMMENDED TO DETERMINE THE POTENTIAL AND LIMITATIONS FOR ANY PROPOSED USES.

SEDIMENT CONTROL MEASURES

SEE SHEETS CIV001, CIV002, CIV101, CIV300, CIV301, CIV302, AND CIV303 FOR THE SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION, DETAILED SEDIMENT CONTROL INFORMATION, DETAILS, SPECIFICATIONS, ETC.

PERMANENT STABILIZATION

THE SITE SHALL BE PERMANENTLY STABILIZED PER THE SEQUENCE OF CONSTRUCTION ON SHEET CIV002 AND IN ACCORDANCE WITH D.C. STANDARDS AS PROVIDED FOR ON SHEETS, CIV301, CIV302, AND CIV303.

STORMWATER MANAGEMENT

THIS PROJECT IS EXEMPT FROM STORMWATER MANAGEMENT REQUIREMENTS, SEE NOTE ON SHEET CIV001.

SEDIMENT CONTROL "GOOD HOUSEKEEPING" NOTES

(SOURCE: DOEE STORMWATER MANAGEMENT GUIDEBOOK, APPENDIX R, JANUARY, 2020)

POLLUTION PREVENTION

THIS APPENDIX IS MEANT TO COMPLEMENT APPENDIX Q STORMWATER HOTSPOTS AND AN EROSION AND SEDIMENT CONTROL PLAN (ESCP), BUT NOT REITERATE EPA'S CONSTRUCTION GENERAL PERMIT REQUIREMENTS. THESE NOTES SHALL APPEAR AS STAMPED NOTES ON STORMWATER MANAGEMENT PLANS (SWMPS) WHERE LAND DISTURBANCE IS GREATER THAN 5,000 SQUARE FEET AND LESS THAN 1 ACRE. THESE NOTES SHALL CONSTITUTE A MINIMUM STORMWATER POLLUTION PREVENTION PLAN AND PROVIDE GUIDANCE ON GOOD HOUSEKEEPING PRACTICES TO PREVENT POTENTIAL CONSTRUCTION SITE POLLUTANTS FROM INTERACTING WITH STORMWATER.

STORMWATER MANAGEMENT PLAN (SWMP) GOOD HOUSEKEEPING STAMP NOTES

1) FUELS AND OILS. ON–SITE REFUELING WILL BE CONDUCTED IN A DEDICATED LOCATION AWAY FROM ACCESS TO SURFACE WATERS. TANKS FABRICATED WITH DOUBLE WALLS DO NOT REQUIRE AN ADDITIONAL BERMED AREA. INSTALL CONTAINMENT BERMS AND/OR SECONDARY CONTAINMENTS AROUND REFUELING AREAS AND STORAGE TANKS. SPILLS WILL BE CLEANED UP IMMEDIATELY AND CONTAMINATED SOILS DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS. PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ALL VEHICLES ON–SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE ACTIVITIES. ANY ASPHALT SUBSTANCES USED ON–SITE WILL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES.

2) SOLID WASTE. NO SOLID MATERIALS SHALL BE DISCHARGED TO SURFACE WATER. SOLID MATERIALS INCLUDING BUILDING MATERIALS, GARBAGE, AND PAINT DEBRIS SHALL BE CLEANED UP DAILY AND DEPOSITED INTO DUMPSTERS, WHICH WILL BE PERIODICALLY REMOVED AND DEPOSITED INTO A LANDFILL. A COVER IS REQUIRED FOR ALL DUMPSTERS WHEN THE DUMPSTER IS NOT ACTIVELY BEING LOADED WITH WASTE MATERIALS.

3) ABRASIVE BLASTING. WATER BLASTING, SANDBLASTING, AND OTHER FORMS OF ABRASIVE BLASTING ON PAINTED SURFACES BUILT PRIOR TO 1978 MAY ONLY BE PERFORMED IF AN EFFECTIVE CONTAINMENT SYSTEM PREVENTS DISPERSAL OF PAINT DEBRIS.

4) FERTILIZER. FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER, WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER, AND STORED IN A COVERED SHED. PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO AVOID SPILLS.

5) PAINT AND OTHER CHEMICALS. ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWERS, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SPRAY GUNS WILL BE CLEANED ON A REMOVABLE TARP. CHEMICALS USED ON–SITE ARE KEPT IN SMALL QUANTITIES AND IN CLOSED CONTAINERS UNDERCOVER AND KEPT OUT OF DIRECT CONTACT WITH STORMWATER. AS WITH FUELS AND OILS, ANY INADVERTENT SPILLS WILL BE CLEANED UP IMMEDIATELY AND DISPOSED OF ACCORDING FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS.

6) CONCRETE. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH ON–SITE, EXCEPT IN A SPECIALLY DESIGNATED CONCRETE DISPOSAL AREA. FORM RELEASE OIL FOR DECORATIVE STONE WORK WILL BE APPLIED OVER A PALLET COVERED WITH AN ABSORBENT MATERIAL TO COLLECT EXCESS FLUID. THE ABSORBENT MATERIAL WILL BE REPLACED AND DISPOSED OF PROPERLY WHEN SATURATED.

7) WATER TESTING. WHEN TESTING AND/OR CLEANING WATER SUPPLY LINES, THE DISCHARGE FROM THE TESTED PIPE WILL BE COLLECTED AND CONVEYED TO A COMPLETED STORMWATER CONVEYANCE SYSTEM FOR ULTIMATE DISCHARGE INTO A STORMWATER BEST MANAGEMENT PRACTICE (BMP).

8) SANITARY WASTE. PORTABLE LAVATORIES LOCATED ON–SITE WILL BE SERVICED ON A REGULAR BASIS BY A CONTRACTOR. PORTABLE LAVATORIES WILL BE LOCATED IN AN UPLAND AREA AWAY FROM DIRECT CONTACT WITH SURFACE WATERS. ANY SPILLS OCCURRING DURING SERVICING WILL BE CLEANED IMMEDIATELY AND CONTAMINATED SOILS DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS.

SUPPLEMENTAL EROSION AND SEDIMENT CONTROL NOTES

A. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF GUTTERS AND DOWNSPOUTS AS SOON AS PRACTICABLE.

B. MEASURES SHALL BE TAKEN TO ACHIEVE A NON–ERODING VELOCITY FOR STORMWATER EXITING FROM A ROOF OR DOWNSPOUT OR TO TEMPORARILY PIPE THAT STORMWATER DIRECTLY INTO A STORM DRAIN.

C. THE SITE WORK SHALL MAXIMIZE THE PRESERVATION OF NATURAL VEGETATION AND LIMIT THE REMOVAL OF VEGETATION TO WHAT IS NECESSARY FOR CONSTRUCTION OR LANDSCAPING ACTIVITY.

D. IF SITE CONDITIONS PRECLUDE EMPLOYMENT OF OTHER MEANS OF EROSION CONTROL, THE DEPARTMENT (DOEE) MAY APPROVE INSTALLATION OF SMALL DIKES CONSTRUCTED ALONG A LOW–LYING PERIMETER AREA OF A JOB SITE.

E. SEDIMENTS TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED NO LATER THAN THE FIRST PHASE OF LAND GRADING.

F. SEDIMENT TRAPS OR BASIN AND OTHER ESC's SHALL BE INSTALLED AS SOON AS NEW SITE–RELATED RUNOFF IS DETECTED AND EMPLOYED AT ALL TIMES TO PROTECT INLETS OR STORM SEWERS BELOW SILT PRODUCING AREAS.

G. NO LATER THAN THE FIRST DAY OF CONSTRUCTION INSTALL SITE ACCESS MEASURES TO MINIMUM OFF–SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURE REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ON TO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATER WAYS.

H. REMOVE OFF–SITE ACCUMULATION OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.

DEMOLITION SEQUENCE

CONTRACTOR TO SECURE ALL NECESSARY PERMITS, AND CONDUCT A PRE–CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO THE START OF CONSTRUCTION OR ANY LAND DISTURBANCE. CALL (202) 535–2977, OR (202) 590–0075 AND ieb.scheduling@dc.gov, TO SCHEDULE A PRE–CONSTRUCTION MEETING.

1) INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN ON SHEET CIV101.

2) PROCEED WITH SELECTIVE. DEMOLISH EXISTING FEATURES WITH APPROPRIATE EQUIPMENT.

3) REMOVE DEBRIS FROM SITE BY TRUCK. TEMPORARILY STABILIZE ALL DISTURBED AREAS PER DC SEDIMENT CONTROL REQUIREMENTS.

UTILITY GENERAL NOTES (DC WATER)

1) CONTACT: NOTIFY THE FOLLOWING DC WATER DEPARTMENTS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION:
   A) CONSTRUCTION INSPECTION SECTION AT 202–787–4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE–CONSTRUCTION MEETING.
   B) WATER SERVICES AT 202–612–3400 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF WATER UTILITY CONSTRUCTION.
   C) SEWER SERVICES AT 202–264–3862 OR 3873 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF SEWER UTILITY CONSTRUCTION.

2) STANDARDS: ALL CONSTRUCTION, MATERIALS, AND APPURTENANCES SHALL COMPLY WITH THE LATEST EDITIONS OF THE DC WATER PROJECT DESIGN MANUAL, STANDARD DETAILS & DESIGN GUIDELINES, AND SPECIFICATIONS.

3) LEAD SERVICE REPLACEMENT: IF THIS PROJECT INCLUDES THE REPLACEMENT OF A WATER MAIN THAT HAS EXISTING LEAD WATER SERVICE LATERALS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DC WATER CONSTRUCTION INSPECTION SECTION AT 202–787–4024 AT LEAST 90 DAYS PRIOR TO CONSTRUCTION TO ALLOW ADEQUATE TIME TO INITIATE STANDARD LEAD SERVICE REPLACEMENT PROTOCOL. LATERAL REPLACEMENT INCLUDES THE FULL LENGTH OF PIPE IN PUBLIC SPACE.

4) OWNER RESPONSIBILITY: THE OWNER IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH EXCAVATION, INSTALLATION, AND RESTORATION OF PUBLIC SPACE TO PERFORM A WATER/SEWER CONNECTION/ABANDONMENT. ONCE THE CONTRACTOR HAS OBTAINED A PUBLIC SPACE PERMIT HE/SHE MUST THEN CONTACT DC WATER PRIOR TO PERFORMING THE EXCAVATION TO INSTALL/INSPECT THE UTILITY WORK. THE OWNER SHALL BE HELD RESPONSIBLE FOR ALL DAMAGES TO EXISTING STRUCTURES AND UTILITIES CAUSED BY CONSTRUCTION ACTIVITY.

5) DC WATER RESPONSIBILITY: DC WATER IS ONLY RESPONSIBLE FOR INSTALLATION OF SMALL WATER SERVICE TAPS (2" DIAMETER AND LESS) TO THE PUBLIC MAIN, SMALL WATER SERVICE TAP REMOVALS FROM THE PUBLIC MAIN, FURNISHING & INSTALLING THE METER IN PUBLIC SPACE, AND INSPECTION OF WORK PERFORMED ON THE PUBLIC SYSTEMS.

6) MISS UTILITY: CONTACT MISS UTILITY AT 800–257–7777 48 HOURS BEFORE ANY DIGGING.

7) PLAN SET: A SET OF SIGNED & SEALED AND DC WATER STAMPED PLANS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY.

8) ABANDONMENTS: THE OWNER MUST PHYSICALLY DISCONNECT EXISTING WATER, SEWER, AND STORM LATERALS THAT ARE TO BE ABANDONED AT THEIR CONNECTION TO THE PUBLIC MAIN.

9) UNMETERED WATER: THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY'S WATER SYSTEM, INCLUDING CONNECTIONS BYPASSING METERS FOR TESTING ON–SITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER.

10) PRESSURE TESTING AGAINST VALVES: PRESSURE TESTING AGAINST VALVES WILL NOT BE ALLOWED.

11) WATER METER INSTALLATION: TO SCHEDULE THE INSTALLATION OF A DOMESTIC WATER METER CONTACT DC WATER AT 202–646–8600. DC WATER WILL FURNISH AND INSTALL THE METER AFTER THE CONNECTION TO THE MAIN HAS BEEN MADE AND THE METER PIT/VAULT HAS BEEN INSTALLED.

12) CROSS CONTAMINATION CONTROL: ASSE 1048 CERTIFIED BACKFLOW PREVENTION ASSEMBLIES ARE REQUIRED ON ALL FIRE SERVICES AND ARE TO BE LOCATED INSIDE THE BUILDING (UNLESS AN EXTERNAL LOCATION IS NECESSARY OR REQUIRED BY DC WATER) WHERE IT IS SUPPLIED, OWNED, OPERATED, AND MAINTAINED BY THE OWNER. DC WATER DOES NOT FURNISH NOR INSTALL FIRE DOUBLE CHECK DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES.

13) UTILITY SERVICE DISRUPTIONS: PHASE ALL UTILITY WORK TO MAINTAIN UTILITY SERVICES TO THE SURROUNDING AREA DURING ALL PHASES OF CONSTRUCTION. LIMIT REQUIRED UTILITY SHUT–DOWNS IN NUMBER AND DURATION. COORDINATE THESE SHUT DOWNS WITH DC WATER CONSTRUCTION INSPECTION STAFF.

14) WATER VALVE OPERATION: THE CONTRACTOR IS REQUIRED TO COORDINATE WITH DC WATER FOR ALL NECESSARY WATER MAIN SHUT DOWNS WITH ADEQUATE ADVANCED NOTICE. ONLY DC WATER EMPLOYEES MAY SHUT DOWN A PUBLIC WATER MAIN. A CERTIFIED PLUMBER IS ONLY AUTHORIZED TO TURN OFF VALVES INSIDE METER PITS.

15) WATER GATE VALVE LOCATION: LOCATE GATE VALVES FOR DOMESTIC AND FIRE SERVICES AS CLOSE TO THE PUBLIC WATER MAIN TEE AS POSSIBLE. HOWEVER, IF NECESSARY ADJUSTMENTS ARE REQUIRED DUE TO CONFLICTS, COORDINATE WITH A DC WATER INSPECTOR.

16) MATERIAL: THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP CUTS TO THE APPROPRIATE DC WATER OFFICE FOR APPROVAL OR OBTAINING A DC WATER APPROVAL STAMP FOR ALL WORK IN PUBLIC SPACE IN ADVANCE OF INSTALLATION. ONLY APPROVED MATERIALS MAY BE USED.

17) TEMPORARY CONDITIONS MINIMUM COVER: A NOMINAL FOUR FEET OF COVER IS REQUIRED FOR ALL WATER MAINS AT FINAL GRADE. COVER OF LESS THAN FOUR FEET REQUIRES DC WATER APPROVAL.

18) AS–BUILT: DEVELOPERS, CONTRACTORS AND/OR PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS–BUILT INFORMATION TO THE APPROPRIATE DC WATER INSPECTOR(S) FOR REVIEW AND APPROVAL, UPON COMPLETION OF INSTALLATION OF NEW SERVICES OR ABANDONMENT OF EXISTING SERVICES. WHEN THE FINAL AS–BUILT IS APPROVED THE DEPOSIT WILL BE RETURNED TO THE APPLICANT. SEE DC WATER AS–BUILT REQUIREMENTS FOR ADDITIONAL INFORMATION.

19) CONFLICTS: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING DC WATER INFRASTRUCTURE PRIOR TO INSTALLATION OF PROPOSED UTILITIES. A MINIMUM OF ONE FOOT VERTICAL AND FIVE FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM ANY UTILITIES AND PUBLIC WATER AND SEWER MAINS.

20) FIRE HYDRANT USE: THE USE OF A FIRE HYDRANT AS A WATER SOURCE IS PROHIBITED UNLESS A PERMIT HAS BEEN OBTAINED FROM DC WATER FOR USE OF A SPECIFIC HYDRANT(S). DAILY OR EXTENDED USE PERMITS CAN BE OBTAINED FROM THE DC WATER PERMIT OPERATIONS DEPARTMENT 202–646–8600.

21) FIRE HYDRANT STATUS: THE CONTRACTOR SHALL NOTIFY FEMS AT 202–277–1889, PRIOR TO TAKING ANY FIRE HYDRANT OUT OF SERVICE OR RENDERING ANY HYDRANT INACCESSIBLE FOR ANY REASON. FEMS IS ALSO TO BE PROVIDED WITH THE LOCATION OF ANY NEW INSTALLATION OF PRIVATE FIRE HYDRANTS.

22) DC WATER SAFETY OFFICE: THE DC WATER SAFETY OFFICE CAN BE CONTACTED AT 202–787–4350.

23) SEWER BACKFLOW PREVENTION: THE PLUMBING SYSTEM MUST BE IN COMPLIANCE WITH SECTION 715 OF THE 2006 INTERNATIONAL PLUMBING CODE WHICH STATES A BACKWATER IS VALVE IS REQUIRED FOR ALL PLUMBING FIXTURES BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER.

UNDERGROUND UTILITY WORK NOTES

A. WHEN CONDUCTING UNDERGROUND UTILITY WORK DO NOT OPEN MORE THAN FIVE HUNDRED LINEAR FEET (500 FT) OF TRENCH AT ANY ONE TIME.

B. FILTER WATER PUMPED OUT OF TRENCH EXCAVATIONS PRIOR TO DISCHARGE TO THE STORM SEWER SYSTEM.

C. PLACE EXCAVATED MATERIAL FOR UTILITY WORK ON THE UPHILL SIDE OF A TRENCH.

D. INSTALL INTERIM OR PERMANENT STABILIZATION IMMEDIATELY AFTER A UTILITY TRENCH IS REFILLED.

E. USE MULCH AND MATTING ON EXCAVATED MATERIAL TO MINIMIZE THEIR EROSION WHEN NATURAL OR ARTIFICIAL GRASS FILTER STRIPS ARE INSTALLED TO RECEIVE STORMWATER RUNOFF FROM EXCAVATED MATERIALS.

LAND DISTURBANCE NOTE

A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE TO SITE IS IN A LAND–DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING ABLE TO:

A. INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM.

B. RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL.

C. SPEAK ON SITE WITH DOEE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM.

THIS RESPONSIBLE PERSON SHALL BE:

A. LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEOTECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT.

OR

B. CERTIFIED THROUGH A TRAINING PROGRAM THAT DOEE APPROVES, INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY ANOTHER JURISDICTION OR PROFESSIONAL ASSOCIATION.

DURING CONSTRUCTION, THE RESPONSIBLE PERSON SHALL KEEP PROOF OF PROFESSIONAL LICENSING OR SUCCESS COMPLETION OF A DOEE–APPROVED TRAINING PROGRAM [21 DCMR 547].

DOEE SOIL EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES

1. FOLLOWING INITIAL LAND DISTURBANCE OR RE–DISTURBANCE, PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOR THE SURFACES OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1); AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE OTHER THAN STOCKPILING, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (ESC). [21 DCMR § 542.9 (O)]

2. ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND DISTURBANCE. [21 DCMR § 543.6]

3. CONTACT DDOE INSPECTION (202) 535–2977 TO SCHEDULE A PRECONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND–DISTURBING ACTIVITY. [21 DCMR § 503.7 (A)]

4. A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR DDOE INSPECTORS. [21 DCMR § 542.15]

5. ESC MEASURES SHALL BE IN PLACE TO STABILIZE AN EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE END OF EACH DAY OF UNDERGROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER DEVELOPMENT SITE. [21 DCMR § 543.7]

6. STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE. [21 DCMR § 543.16 (A)]

7. STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VEGETATION, HYDRO–SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION. [21 DCMR § 543.16 (B)]

8. FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY, OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM. ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE DISTRICT AND FEDERAL REGULATIONS.

9. PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION FOR PROPER POST CONSTRUCTION OPERATION. [21 DCMR § 543.5]

10. REQUEST A DDOE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. [21 DCMR § 542.12 (A)]

11. REQUEST A DDOE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF THE SITE AND BEFORE THE REMOVAL OF EROSION AND SEDIMENT CONTROLS. [21 DCMR § 542.12 (B)]

12. FINAL STABILIZATION MEANS THAT ALL LAND–DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING TWO CRITERIA HAVE BEEN MET: (1) A UNIFORM (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES). [21 DCMR § 542.12 (B.1, B.2)]

13. FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON SITE. [21 DCMR § 543.10 (B)]

14. POST A SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DDOE IN THE EVENT OF EROSION OR OTHER POLLUTION. THE SIGN WILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DDOE INSPECTOR. EACH SIGN WILL BE NO LESS THAN 18 X 24 INCHES IN SIZE AND MADE OF MATERIALS THAT WILL WITHSTAND WEATHER FOR THE DURATION OF THE PROJECT. LETTERING WILL BE AT LEAST 1 INCH IN HEIGHT AND EASILY READABLE BY THE PUBLIC FROM A DISTANCE OF TWELVE FEET (12 FT). THE SIGN MUST DIRECT THE PUBLIC, IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT EROSION, RUNOFF, OR STORMWATER POLLUTION" AND WILL PROVIDE THE CONSTRUCTION SITE ADDRESS, DDOE'S TELEPHONE NUMBER (202–535–2977), DDOE'S E–MAIL ADDRESS (IEB.SCHEDULING@DC.GOV), AND THE 311 MOBILE APP HEADING ("CONSTRUCTION–EROSION RUNOFF"). [21 DCMR § 543.22]

IF A SITE DISTURBS 5,000 SQUARE FEET OF LAND OR GREATER, THE ESC PLAN MUST CONTAIN THE FOLLOWING STATEMENT:

15. A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND–DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING AVAILABLE TO (A) INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM, (B) RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DDOE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM. A RESPONSIBLE PERSON SHALL BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEOTECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT; OR (B) CERTIFIED THROUGH A TRAINING PROGRAM THAT DDOE APPROVES, INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY ANOTHER JURISDICTION OR PROFESSIONAL ASSOCIATION. DURING CONSTRUCTION, THE RESPONSIBLE PERSON SHALL KEEP ON SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DDOE–APPROVED TRAINING PROGRAM. [21 DCMR § 547]

SUPPLEMENTAL TREE PROTECTION NOTES

(SOURCE: DOEE ESC MANUAL, 2017, SECTION 9.3.5)

1. GROUPS OF TREES AND INDIVIDUAL TREES SELECTED FOR RETENTION MUST BE ACCURATELY LOCATED ON THE PLAN AND DESIGNATED AS "TREE(S) TO BE SAVED." INDIVIDUAL SPECIMENS THAT ARE NOT PART OF A TREE GROUP MUST ALSO HAVE THEIR SPECIES AND DIAMETER NOTED ON THE PLAN.

2. PRIOR TO CONSTRUCTION AND BEFORE THE PRECONSTRUCTION MEETING, MARK INDIVIDUAL TREES AND STANDS OF TREES TO BE RETAINED WITHIN THE LIMITS OF CLEARING AT A HEIGHT VISIBLE TO EQUIPMENT OPERATORS.

3. DURING ANY PRECONSTRUCTION MEETING, REVIEW TREE PRESERVATION AND PROTECTION MEASURES WITH THE CONTRACTOR AS THEY APPLY TO THAT SPECIFIC PROJECT.

4. DEFINE THE CRITICAL ROOT ZONE.

5. CONSTRUCT THE TREE PROTECTION ZONE.

6. TREE BRANCHES THAT INTERFERE WITH THE CONSTRUCTION MAY BE TIED BACK OR PRUNED ONLY TO THE POINT NECESSARY TO COMPLETE THE WORK. TYING BACK OR TRIMMING OF ALL BRANCHES MUST BE IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES (ANSI A300, PART 8) AND BE PERFORMED UNDER SUPERVISION OF AN ARBORIST.

7. MECHANICAL BORING IS REQUIRED TO TUNNEL UNDER THE CRZ. THE BORING MUST BE AT A MINIMUM DEPTH OF 30 INCHES. EXCAVATIONS MUST PROCEED WITH CARE BY USE OF HAND TOOLS.

8. DO NOT CUT ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHOUT DOEE'S PERMISSION.

9. WRAP EXPOSED ROOTS 2 INCHES AND LARGER IN DIAMETER IN BURLAP OR OTHER APPROVED MATERIAL AND KEEP MOIST AT ALL TIMES.

10. HEAVY EQUIPMENT, VEHICULAR TRAFFIC, OR STOCKPILES OF ANY CONSTRUCTION MATERIALS (INCLUDING TOPSOIL) ARE NOT PERMITTED WITHIN THE CRZ OF ANY TREE TO BE RETAINED UNLESS THE SPECIFICATIONS SHOWN IN DETAIL 903.2 ARE FOLLOWED PER ARBORIST'S DIRECTION. SILT FENCING MUST NOT BE TRENCHED.

11. TREES TO BE REMOVED MUST BE REMOVED IN A CONTROLLED MANNER AND NOT FELLED, PUSHED, OR PULLED INTO TREES BEING RETAINED. DO NOT DAMAGE TREE TRUNKS AND LIMBS BY CONSTRUCTION EQUIPMENT. DO NOT NAIL BOARDS TO TREES DURING BUILDING OPERATIONS.

CONSTRUCTION SEQUENCE

CONTRACTOR TO SECURE ALL NECESSARY PERMITS, AND CONDUCT A PRE–CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR, (202) 535–2977 AND ieb.scheduling@dc.gov, PRIOR TO THE START OF CONSTRUCTION OR ANY LAND DISTURBANCE.

1) INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON THIS PLAN.

2) REMOVE EXISTING VEGETATION AND FEATURES AS NECESSARY.

3) BEGIN ROUGH GRADING OPERATIONS TO BRING LOT TO GRADE.

4) PROCEED WITH RECONSTRUCTION OF DRIVEWAY AND ASSOCIATED APPURTENANCES.

5) CONTINUE DRIVEWAY AND OTHER ASSOCIATED CONSTRUCTION, INCLUDING ALL INTERIOR PLUMBING AND APPURTENANCES.

6) COMPLETE DRIVEWAY AND OTHER ASSOCIATED CONSTRUCTION, STABILIZE ALL DISTURBED AREAS PER DC SEDIMENT CONTROL REQUIREMENTS.

7) REMOVE SEDIMENT CONTROL DEVICES AFTER ENTIRE SITE IS STABILIZED AND PERMISSION IS RECEIVED FROM THE SEDIMENT CONTROL INSPECTOR.

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Experience you can build on.

CAS ENGINEERING–DC, LLC
1001 Connecticut Avenue, NW
Suite 401
Washington, DC 20036
(202) 393-7200 Phone
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info@cas-dc.com
CIVIL • SURVEYING • LAND PLANNING

OWNER/CLIENT
VAL HAWKINS ARCHITECT
ATTN: VAL HAWKINS, AIA
3123 DUMBARTON STREET, NW
WASHINGTON, DC 20007
(202) 674-9226 (PHONE)
val@vhawkins.com

ARCHITECT
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WASHINGTON, DC 20007
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val@vhawkins.com

LOT 0831, SQUARE 1243
GEORGETOWN

3123
DUMBARTON
STREET, NW

N.W. WASHINGTON,
DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 08/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DAVID C. LANDSMAN
PE906954

02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18–170B–DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	N.T.S.

10 0 10 20 40
SCALE: 1 INCH = 20 FEET

NORTH
N

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

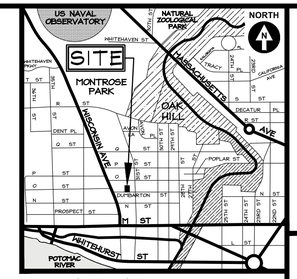
SHEET TITLE

CIVIL COVER SHEET NOTES

CIV002

GENERAL NOTES

SEE GENERAL NOTES ON SHEET CIV001.



VICINITY MAP
ADC MAP 5528, GRID A-5
SCALE: 1" = 2000'

N/F
MEGAN S NEWTON
LOT 0832, SQUARE 1243
3122 O STREET, NW
GEORGETOWN
INS. NO. 119551

N/F
MALCOLM R LOVELL JR
LOT 0072, SQUARE 1243
3126 O STREET, NW
GEORGETOWN

N/F
CHRIST CHURCH PARISH GEORGETOWN
LOT 0823, SQUARE 1243
3116 O STREET, NW
GEORGETOWN

N/F
ALICE B CALDWELL
LOT 0824, SQUARE 1243
3114 O STREET, NW
GEORGETOWN
INS. NO. 33134

N/F
VESTRY OF CHRIST CHURCH PARISH
LOT 0847, SQUARE 1243
3112 O STREET, NW
GEORGETOWN

EAST 30.00'
NORTH 10.50'
SOUTH 10.50'
EAST 91.58'
WEST 1.58'

20' REAR YARD

N/F
DAVID E DUNN
LOT 0074, SQUARE 1243
1340 31ST STREET, NW
GEORGETOWN

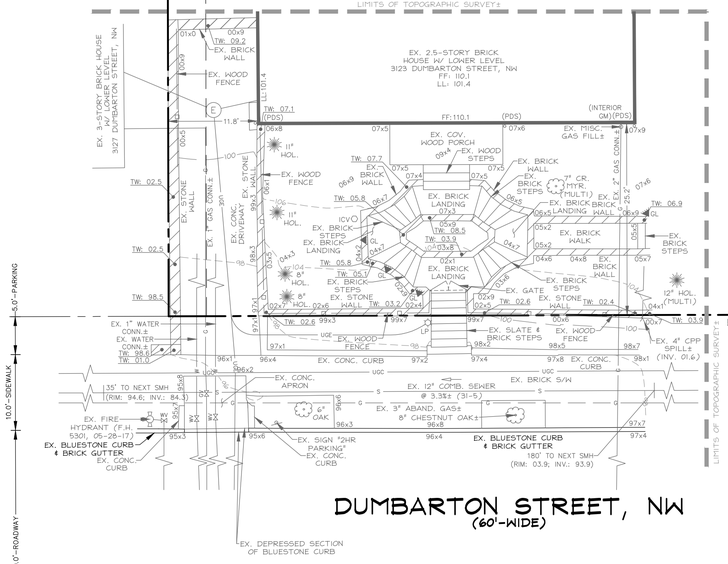
N/F
JAMES SAVIN
LOT 0839, SQUARE 1243
3127 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 101960

NORTH 120.00'
SOUTH 120.00'
5' SIDE YARD
5' SIDE YARD

LOT 831
SQUARE 1243
14,716 SF

N/F
ALLA BAKHTINA
LOT 0801, SQUARE 1243
3107 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 121358

WEST 120.00'



DUMBARTON STREET, NW
(60'-WIDE)

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EX. SANITARY SEWER LINE
- EX. WATER LINE WITH VALVE
- EX. GAS LINE WITH VALVE
- EX. UNDERGROUND ELECTRIC LINE
- EX. UNDERGROUND CONDUIT LINE
- EX. TWO- AND TEN-FOOT CONTOURS
- EX. FIRE HYDRANT
- EX. SPOT ELEVATION
- EX. WOOD FENCE
- EX. IRRIGATION CONTROL VALVE
- EX. LIGHT POLE
- EX. GROUND LIGHT
- EX. SIGN
- EX. PIPED DOWNSPOUT
- EX. SPILLED DOWNSPOUT
- EX. TREE
- EX. WALL

UTILITY INFORMATION

EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED. UTILITY LOCATIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY.

MISS UTILITY

FOR LOCATION OF UTILITIES, CALL "MISS UTILITY" AT 1-800-257-7777, OR LOG ON TO WWW.MISSUTILITY.NET/TIC 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL JURISDICTIONAL REQUIREMENTS.

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N.W. WASHINGTON, DISTRICT OF COLUMBIA

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DISTRICT OF COLUMBIA
DAVID C. LANDSMAN
PE906954
CIVIL
PROFESSIONAL ENGINEER

02/17/2021

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APPROVAL	DCL
SCALE	1"=10'

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

NORTH

DATUM
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

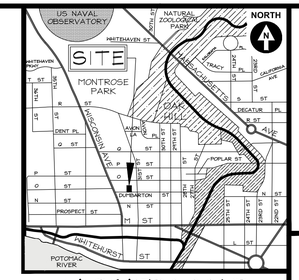
SHEET TITLE

EXISTING CONDITIONS PLAN

CIV100

GENERAL NOTES

SEE DEMOLITION SEDIMENT CONTROL RELATED NOTES ON SHEETS CIV001 AND CIV002.



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LOT 0072, SQUARE 1243
3126 O STREET, NW
GEORGETOWN

N/F
CHRIST CHURCH PARISH GEORGETOWN
LOT 0823, SQUARE 1243
3116 O STREET, NW
GEORGETOWN

N/F
ALICE B CALDWELL
LOT 0824, SQUARE 1243
3114 O STREET, NW
GEORGETOWN
INS. NO. 33134

N/F
VESTRY OF CHRIST CHURCH PARISH
LOT 0847, SQUARE 1243
3112 O STREET, NW
GEORGETOWN

EAST 30.00'
NORTH 10.50'
SOUTH 10.50'
EAST 91.58'
WEST 1.58'

N/F
DAVID E DUNN
LOT 0074, SQUARE 1243
1340 31ST STREET, NW
GEORGETOWN

20' REAR YARD

N/F
JAMES SAVIN
LOT 0839, SQUARE 1243
3127 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 101960

NORTH 120.00'
SOUTH 120.00'
5' SIDE YARD
5' SIDE YARD

LOT 831
SQUARE 1243
14,716 SF

N/F
ALLA BAKHTINA
LOT 0801, SQUARE 1243
3107 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 121358

WEST 120.00'

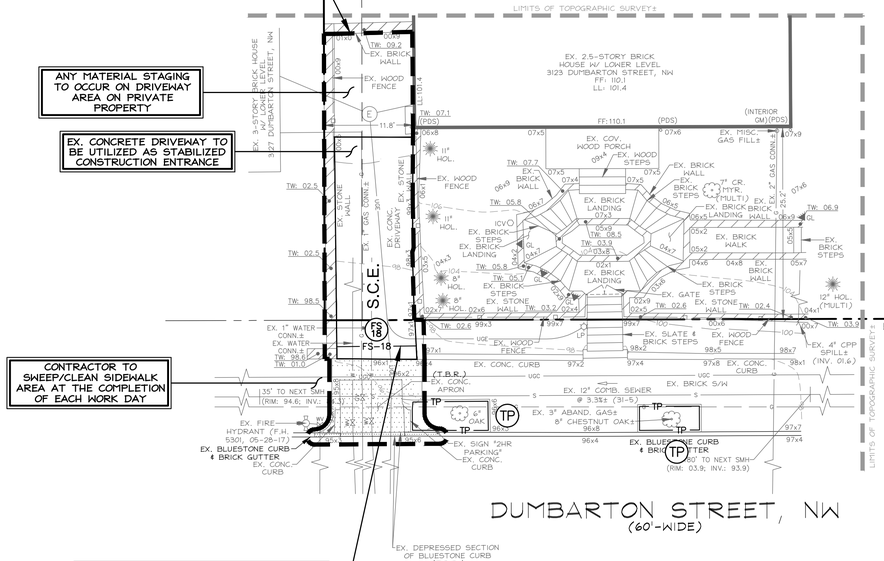
LIMITS OF DISTURBANCE
L.O.D. = 700 SF±

ANY MATERIAL STAGING TO OCCUR ON DRIVEWAY AREA ON PRIVATE PROPERTY

EX. CONCRETE DRIVEWAY TO BE UTILIZED AS STABILIZED CONSTRUCTION ENTRANCE

CONTRACTOR TO SWEEP/CLEAN SIDEWALK AREA AT THE COMPLETION OF EACH WORK DAY

CONTRACTOR TO INSTALL STRAW BALES OR EROSION CONTROL TUBE ACROSS STABILIZED CONSTRUCTION ENTRANCE WHEN NOT IN USE AND AT END OF DAY.



CONTRACTOR TO MAINTAIN ANY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED ON SITE.

REFER TO PLANS AND/OR REPORTS BY OTHERS FOR SPECIFIC TREE PROTECTION MEASURES, AS APPLICABLE.

CONTRACTOR SHALL USE EROSION CONTROL TUBE, TRENCHLESS SILT FENCE, OR OTHER TRENCHLESS ESC METHOD ADJACENT TO TREE SAVE AREAS

A SEPARATE DDOT TREE REMOVAL PERMIT IS REQUIRED FOR PUBLIC SPACE TREES AND FOR TREES GREATER THAN 44" CBH (14" DBH). HERITAGE TREES (GREATER THAN 100" CBH; 31.8" DBH) CANNOT BE REMOVED WITHOUT MAYORAL APPROVAL.

CONTRACTOR TO PROTECT TREES (BRANCHES, TRUNK, ROOTS) ON NEIGHBORING LOTS THAT OVERLAP THE L.O.D. COORDINATE WITH DDOT UFA WARD 2 ARBORIST AS APPLICABLE. CONTRACTOR TO USE A TRENCHLESS SILT FENCE METHOD WITHIN THE CANOPY OF ANY TREE TO BE PRESERVED (INCLUDING PROTECTING TREES ON ADJACENT PROPERTIES), COORDINATE WITH DDOT WARD 2 ARBORIST AS APPLICABLE. THE DDOT WARD 2 LEAD ARBORIST IS TARYN FARBER, taryn.farber@dc.gov; (202) 507-3903.

DEMOLITION QUANTITIES
DISTURBED AREA: 700 SQUARE FEET±
CUT: 10 CUBIC YARDS
FILL: 10 CUBIC YARDS

LEGEND

SEDIMENT CONTROL DEVICES

- FS-18 — FILTERSOCK EROSION CONTROL TUBE (OR SIMILAR EROSION CONTROL TUBE, STRAW BALES, ETC.) (FS-18)
- TP — TREE PROTECTION FENCE (TP)
- (T.B.R.) — FEATURE TO BE RAZED
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE
- LIMITS OF DISTURBANCE

UTILITY INFORMATION

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WASHINGTON, DC 20007
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val@vhawkins.com

LOT 0831, SQUARE 1243
GEORGETOWN

3123 DUMBARTON STREET, NW

N.W. WASHINGTON, DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DIRECT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

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DISTRICT OF COLUMBIA
DAVID C. LANDSMAN
PE906954
CIVIL
PROFESSIONAL ENGINEER

02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	1"=10'

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

NORTH

DATUM
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

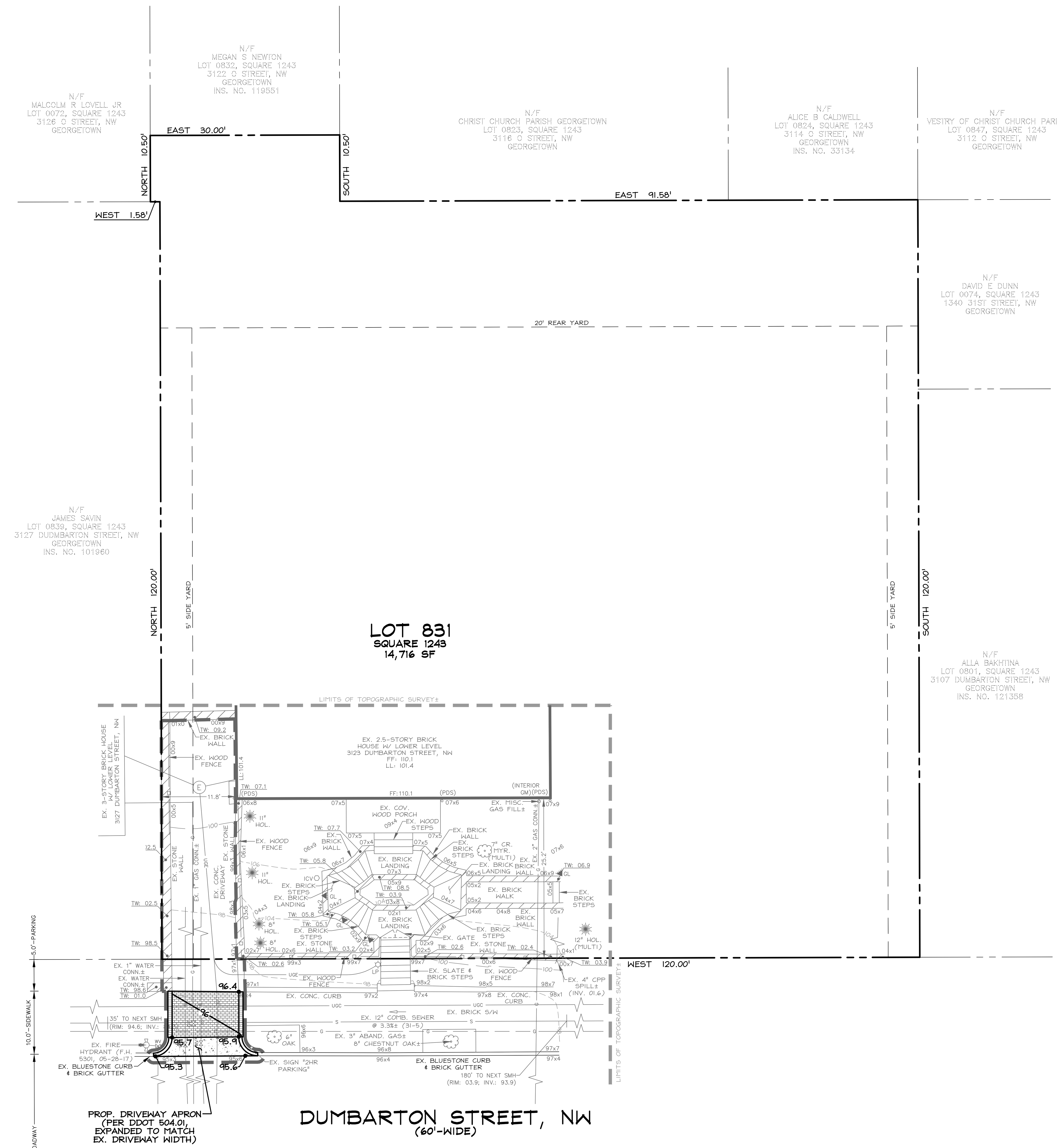
SHEET TITLE

DEMOLITION SEDIMENT CONTROL PLAN

CIV101

GENERAL NOTES

SEE BUILDING PERMIT SITE AND GRADING RELATED NOTES ON SHEETS CIV001 AND CIV002.



LEGEND

PROPOSED FEATURES

——00——	PROP. CONTOUR WITH ELEVATION
— — — —	LIMITS OF DISTURBANCE

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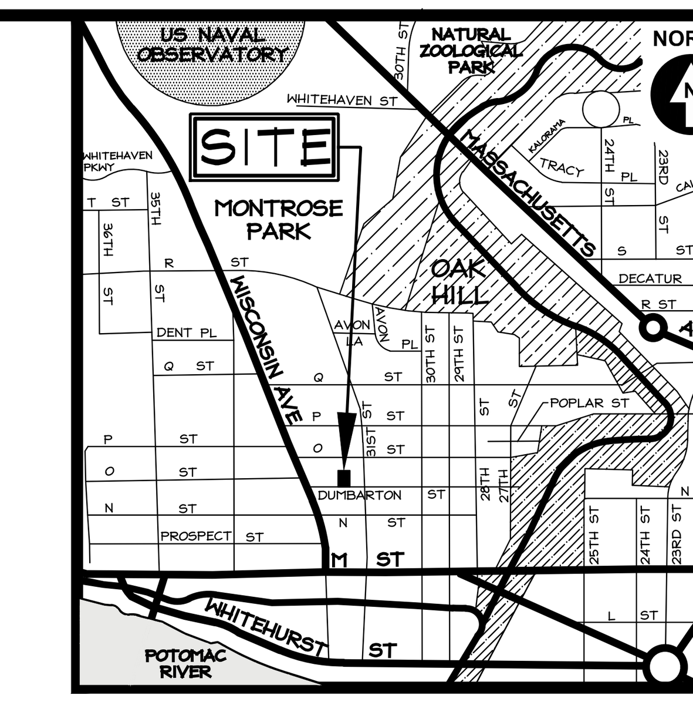
TOP, INVERT, PROFILE, AND SPOT ELEVATIONS HAVE BEEN SHORTENED TO DROP THE LEADING HUNDRED DENOTATION FOR SIMPLICITY.

A SEPARATE DDOT TREE REMOVAL PERMIT IS REQUIRED FOR PUBLIC SPACE TREES AND FOR TREES GREATER THAN 44" CBH (14" DBH).

PUBLIC SPACE RESTORATION TO BE DONE AS NECESSARY PER DDOT PERMIT OR APPLICABLE DETAILS.

CONTRACTOR TO PROTECT TREES (BRANCHES, TRUNK, ROOTS) ON NEIGHBORING LOTS THAT OVERLAP THE L.O.D. AND HERITAGE TREES ON SITE. COORDINATE WITH DDOT UFA WARD 2 ARBORIST AS APPLICABLE. CONTRACTOR TO USE A TRENCHLESS SILT FENCE METHOD AND TO HORIZONTALLY BORE OR AIR SPADE EXCAVATE FOR UTILITIES WITHIN THE CANOPY OF ANY TREE TO BE PRESERVED (INCLUDING PROTECTING TREES ON ADJACENT PROPERTIES), COORDINATE WITH DDOT WARD 2 ARBORIST AS APPLICABLE. THE DDOT WARD 2 LEAD ARBORIST IS REBECCA SCHWARTZ, rebecca.schwartz@dc.gov; (202) 779-2370.



VICINITY MAP

ADC MAP 5528, GRID A-5
SCALE: 1" = 2000'

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LOT 0831, SQUARE 1243
GEORGETOWN

3123 DUMBARTON STREET, NW

N.W. WASHINGTON,
DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

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DISTRICT OF COLUMBIA · DAVID C. LANDSMAN · PE906954 · CIVIL · PROFESSIONAL ENGINEER
02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	1"=10'

SCALE: 1 INCH = 10 FEET

NORTH

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

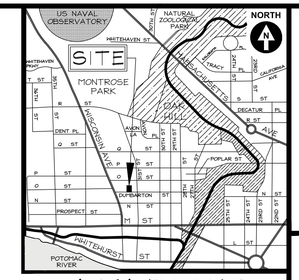
SHEET TITLE

BUILDING PERMIT SITE AND GRADING PLAN

CIV200

GENERAL NOTES

SEE SEDIMENT CONTROL RELATED NOTES ON SHEET CIV001.



VICINITY MAP

ADC MAP 5528, GRID A-5
SCALE: 1" = 2000'

N/F
MEGAN S NEWTON
LOT 0832, SQUARE 1243
3122 O STREET, NW
GEORGETOWN
INS. NO. 119551

N/F
MALCOLM R LOVELL JR
LOT 0072, SQUARE 1243
3126 O STREET, NW
GEORGETOWN

N/F
CHRIST CHURCH PARISH GEORGETOWN
LOT 0823, SQUARE 1243
3116 O STREET, NW
GEORGETOWN

N/F
ALICE B CALDWELL
LOT 0824, SQUARE 1243
3114 O STREET, NW
GEORGETOWN
INS. NO. 33134

N/F
VESTRY OF CHRIST CHURCH PARISH
LOT 0847, SQUARE 1243
3112 O STREET, NW
GEORGETOWN

EAST 30.00'
NORTH 10.50'
SOUTH 10.50'
EAST 91.58'
WEST 1.58'

N/F
DAVID E DUNN
LOT 0074, SQUARE 1243
1340 31ST STREET, NW
GEORGETOWN

20' REAR YARD

N/F
JAMES SAVIN
LOT 0839, SQUARE 1243
3127 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 101960

NORTH 120.00'
SOUTH 120.00'
5' SIDE YARD
5' SIDE YARD

LOT 831
SQUARE 1243
14,716 SF

N/F
ALLA BAKHTINA
LOT 0801, SQUARE 1243
3107 DUMBARTON STREET, NW
GEORGETOWN
INS. NO. 121358

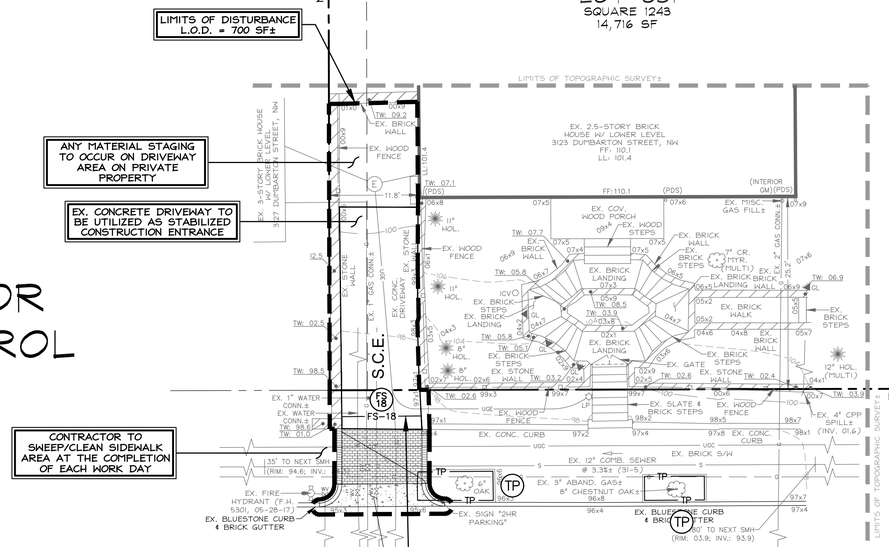
LIMITS OF DISTURBANCE
L.O.D. = 700 SF±

ANY MATERIAL STAGING TO OCCUR ON DRIVEWAY AREA ON PRIVATE PROPERTY

EX. CONCRETE DRIVEWAY TO BE UTILIZED AS STABILIZED CONSTRUCTION ENTRANCE

CONTRACTOR TO SWEEP/CLEAN SIDEWALK AREA AT THE COMPLETION OF EACH WORK DAY

CONTRACTOR TO INSTALL STRAW BALES OR EROSION CONTROL TUBE ACROSS STABILIZED CONSTRUCTION ENTRANCE WHEN NOT IN USE AND AT END OF DAY.



THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY

LEGEND

SEDIMENT CONTROL DEVICES

FS-18	FILTERSOCK EROSION CONTROL TUBE (OR SIMILAR EROSION CONTROL TUBE, STRAW BALES, ETC.)
TP	TREE PROTECTION FENCE
S.C.E.	STABILIZED CONSTRUCTION ENTRANCE
	LIMITS OF DISTURBANCE

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FOR MORE INFORMATION, SEE ADDITIONAL PROFILES, NOTES, COMPUTATIONS, AND DETAILS ON CIV200-SERIES SHEETS.

CONTRACTOR SHALL USE EROSION CONTROL TUBE, TRENCHLESS SILT FENCE, OR OTHER TRENCHLESS ESC METHOD ADJACENT TO TREE SAVE AREAS

CONTRACTOR TO MAINTAIN ANY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED ON SITE

A SEPARATE DDOT TREE REMOVAL PERMIT IS REQUIRED FOR PUBLIC SPACE TREES AND FOR TREES GREATER THAN 44" CBH (14" DBH)

REFER TO PLANS AND/OR REPORTS BY OTHERS FOR SPECIFIC TREE PROTECTION MEASURES, AS APPLICABLE.

ALL EXCAVATED AREAS OF ROADWAY AND UTILITY CUTS IN THE PUBLIC RIGHT-OF-WAY MUST BE COVERED IMMEDIATELY.

CONTRACTOR TO PROTECT TREES (BRANCHES, TRUNK, ROOTS) ON NEIGHBORING LOTS THAT OVERLAP THE L.O.D. AND HERITAGE TREES ON SITE. COORDINATE WITH DDOT UFA WARD 2 ARBORIST AS APPLICABLE. CONTRACTOR TO USE A TRENCHLESS SILT FENCE METHOD AND TO HORIZONTALLY BORE OR AIR SPADE EXCAVATE FOR UTILITIES WITHIN THE CANOPY OF ANY TREE TO BE PRESERVED (INCLUDING PROTECTING TREES ON ADJACENT PROPERTIES), COORDINATE WITH DDOT WARD 2 ARBORIST AS APPLICABLE. THE DDOT WARD 2 LEAD ARBORIST IS REBECCA SCHWARTZ, rebecca.schwartz@dc.gov; (202) 779-2370.

CONSTRUCTION QUANTITIES:
DISTURBED AREA: 700 SQUARE FEET±
CUT: 10 CUBIC YARDS
FILL: 10 CUBIC YARDS

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LOT 0831, SQUARE 1243
GEORGETOWN

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N.W. WASHINGTON, DISTRICT OF COLUMBIA

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CIVIL
PROFESSIONAL ENGINEER

02/17/2021

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CAS PROJECT	18-170B-DC
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CHECKED BY	DCL
APPROVAL	DCL
SCALE	1"=10'

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

NORTH

DATUM
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

SEDIMENT CONTROL PLAN

CIV300

2.10 Vegetative Stabilization

2.10.1 Definition

Using vegetation as cover for barren soil to protect it from forces that cause erosion. This specification includes both temporary and permanent stabilization.

2.10.2 Purpose

Use vegetative stabilization specifications to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas and improving wildlife habitat and visual resources.

2.10.3 Conditions Where Practice Applies

Use this practice on denuded areas as specified on the ESC and SWM Plans. It may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long-term vegetative cover. Examples of applicable areas for temporary seeding are temporary soil stockpiles, cleared areas being left idle between construction phases, and earth dikes or other temporary erosion control measures. Examples of permanent seeding include lawns, dams, cut and fill slopes, and other areas at final grade.

Vegetative stabilization must be in place to stabilize the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3:1 within 7 days. All other disturbed or graded areas on the project site must be stabilized within 14 days.

2.10.4 Design Criteria

Design criteria for both temporary and permanent vegetative stabilization includes seed specifications, seed mixtures, and soil amendments.

Seed Specifications

For both temporary and permanent soil stabilization, seed must meet the following specifications:

1. All seed must be subject to retesting by a recognized seed laboratory within the 6 months immediately preceding the date of sowing such material on the site.

   Note: Seed tags must be made available to the inspector to verify type and rate of seed used.
2. Seed quality must be consistent with the criteria outlined in Table 2.2.
3. The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Do not use inoculants beyond the date indicated on the container. Add fresh inoculant as directed on the package. Use 4 times the recommended rate when hydroseeding.

Note: It is very important to keep the inoculant as cool as possible until it is used. Temperatures above 75–80°F can weaken bacteria and make the inoculant less effective.

Table 2.2 Quality of Seed

Species	Minimum Seed Purity (%)	Minimum Seed Germination (%)
Cool-Season Grasses		
Barley	98	85
Bentgrass, Creeping	95	85
Bluegrass, Canada	90	80
Bluegrass, Kentucky	97	80
Bluegrass, Rough	96	80
Fescue, Chewings	97	85
Fescue, Creeping Red	97	85
Fescue, Hard	97	85
Fescue, Sheep	97	85
Fescue, Tall	97	85
Oats	98	85
Orchardgrass	90	80
Redtop	92	80
Rye, Cereal	98	85
Ryegrass, Annual or Perennial	97	85
Saltgrass, Alkali	85	80
Wheat	98	85
Wild Rye, Canada	85	70
Warm-Season Grasses		
Bluestem, Big	60	60
Bluestem, Little	55	60
Deertongue	95	75
Indiangrass	60	60
Millet, Foxtail or Pearl	98	80
Panicgrass, Coastal	95	70
Switchgrass	95	75
Legumes/Forbs		
Clover, Alsike	99	85
Clover, Red	99	85
Clover, White	99	90
Flatpea	98	75
Lespedeza, Common	98	80
Pea, Partridge	98	70
Trefoil, Birdsfoot	98	85

Temporary Stabilization

Use temporary seeding to provide cover on disturbed areas for up to 12 months. Longer duration of vegetative cover requires permanent seeding.

Include in the plan the following Temporary Seeding Summary (Table 2.3) that identifies temporary seeding materials rates, species, and fertilizer/lime rates. Use Table 2.4 to complete the summary table. If Table 2.3 is not put on the plans and completed, then Table 2.4 must be put on the plans.

Soil tests are not required for temporary seeding, but the plan should identify recommended fertilizer and/or lime application rates. If soil testing is completed, report the testing agency's results on the plans. If a soil test has been performed, delete the rates shown in Table 2.3 and write in the rates recommended by the testing agency.

Table 2.3 Temporary Seeding Summary

Temporary Seeding Summary					
Seed Mixture				Fertilizer Rate (10-10-10)	Lime Rate
Species	Seeding Rate (indicate units)	Seeding Dates	Seeding Depths		
Annual Ryegrass	1.0 lb/1,000 ft^2	2/15 - 4/30 8/15 - 11/30	0.5"	436 lb/ac (10 lb/ 1,000 ft^2)	2 tons/ac (90 lb/ 1,000 ft^2)

* or approved equivalent, coordinate with DOEE inspector.

Seed mixtures appropriate to the District of Columbia for temporary seeding are included in Table 2.4, along with appropriate seeding rates, depths, and planting dates.

Table 2.4 Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/1,000 ft^2	Seeding Depth (inches)[2]	Recommended Seeding Dates Plant Hardiness Zone 7a and 7b[3]
Cool-Season Grasses				
Annual Ryegrass	40	1.0	0.5	Feb. 15 to Apr. 30; Aug. 15 to Nov. 30
Barley	96	2.2	1.0	Feb. 15 to Apr. 30; Aug. 15 to Nov. 30
Oats	72	1.7	1.0	Feb. 15 to Apr. 30; Aug. 15 to Nov. 30
Wheat	120	2.8	1.0	Feb. 15 to Apr. 30; Aug. 15 to Nov. 30
Cereal Rye	112	2.8	1.0	Feb. 15 to Apr. 30; Aug. 15 to Dec. 15
Warm-Season Grasses				
Foxtail Millet	30	0.7	0.5	May 1 to Aug. 14
Pearl Millet	20	0.5	0.5	May 1 to Aug. 14

Notes:

[1]Seeding rates for the warm-season grasses are in pounds of pure live seed (PLS). Actual planting rates must be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.

Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet, foxtail millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Generally, do not use cereal rye as a nurse crop unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.

Oats are the recommended nurse crop for warm-season grasses.

[2]For sandy soils, plant seeds at twice the depth listed above.

[3]The planting dates listed are averages and may require adjustment to reflect local conditions.

Permanent Stabilization

For permanent seeding, the plan must include the Permanent Seeding Summary with the following information. Use Tables 2.6 and 2.7 to complete the summary table.

Table 2.5 Permanent Seeding Summary

Permanent Seeding Summary								
Seed Mixture					Fertilizer Rate (10-20-20)			Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P_2O_5	K_2O	
8	Tall Fescue (Lolium Arundinaceum)	2.3 lb / 1,000 ft^2	2/15 - 4/30 8/15 - 11/30	1/8"	45 lb/ac (1.0 lb/ 1,000 ft^2)	90 lb/ac (2 lb/ 1,000 ft^2)	90lb/ac (2 lb/ 1,000 ft^2)	2 tons/ac (90 lb/ 1,000 ft^2)

* or approved equivalent, coordinate with DOEE inspector.

Turfgrass Mixtures

Select a seed mixture from Table 2.6, using Table 2.7 (conditions by mix) as a guideline. Some guidance for common mixes is as follows:

1. Kentucky Bluegrass (full sun mixture) – For use in areas that receive intensive management. The recommended certified Kentucky bluegrass cultivars seeding rate is 1.5 to 2.0 pounds per 1,000 square feet. Choose a minimum of three bluegrass cultivars ranging from a minimum of 10% to a maximum of 35% of the mixture by weight.
2. Kentucky Bluegrass/Perennial Rye (full sun mixture) – For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. The certified perennial ryegrass cultivars/certified Kentucky bluegrass seeding rate is 2 pounds mixture per 1,000 square feet. A minimum of three Kentucky bluegrass cultivars must be chosen, with each cultivar ranging from 10% to 35% of the mixture by weight.
3. Tall Fescue/Kentucky Bluegrass (full sun mixture) – For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. The recommended mixture includes 95% to100% certified tall fescue cultivars and 0% to5% certified Kentucky bluegrass cultivars. The seeding rate is 5 to 8 pounds per 1,000 square feet. One or more cultivars may be blended.
4. Kentucky Bluegrass/Fine Fescue (shade mixture) – For use in areas with shade in bluegrass lawns or for establishment in high quality, intensively managed turf area. The mixture includes 30% to 40% certified Kentucky bluegrass cultivars and 60% to 70% of certified fine fescue. The seeding rate is 1½ to 3 pounds per 1,000 square feet. A minimum of 3 Kentucky bluegrass cultivars must be chosen, with each cultivar ranging from a minimum of 10% to a maximum of 35% of the mixture by weight.

   Note: Select turfgrass varieties from those listed in the most current Maryland-Virginia Turfgrass Variety Recommendation Work Group list (http://www.pubs.ext.vt.edu/).

Table 2.6 Recommended Permanent Seeding Mixtures by Site Condition or Purpose

Site Condition or Purpose of the Planting	1	2	3	4	5	6	7	8	9	10	11	12	13
	Recommended Mix (see Table 2.7)												
Steep Slopes, Roadsides	R	R	R	A	R	A				A	A	R	R
Sand and Gravel Pits, Sanitary Landfills	R	R	R	A	R	A				A	A	R	
Salt-Damaged Areas	A												R
Mine Spoil, Dredged Material, and Spoil Banks	A		R	A	A								
Utility Rights-of-Way	R	R	R	R	R	R	A			R	R	R	
Dikes and Dams	A	A	R	A		R	R	A		R	R	R	
Berms and Low Embankments (not on Ponds)	R	R	R	R	R	R	A	A		R	R	R	A
Pond and Channel Banks, Streambanks	R	R	R	R	A	A	A			A	A		
Grassed Waterways, Diversions, Terraces, Spillways	A					A	R	A	R		R		A
Bottom of Drainage Channels, Swales, Detention Basins	A				A			R	A		A	R	R
Field Borders, Filter Strips, Contour Buffer Strips	R	R	R	A	A	R	A	R	R	R	R	R	A
Wastewater Treatment Strips and Areas								R	A	A			
Heavy Use Areas (Grass Loafing Paddocks for Livestock)								R					
Athletic Fields, Residential and Commercial Lawns								A	R		R		
Recreation Areas								R	R		R		

R = Recommended mix for this site condition or purpose.
A = Alternative mix, depending on site conditions.

Table 2.7 Selected List of Permanent Herbaceous Seeding Mixtures

Mix	Recommended Cultivar	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/ 1,000 ft^2	Soil Drainage Class[2]	Max. Height (in.)	Maint. Level[3]	Remarks
Warm-Season/Cool-Season Grass Mixes							
1. SELECT ONE WARM-SEASON GRASS: Switch Grass (*Panicum virgatum*)	Blackwell, Carthage, Cave-in-the-Rock, or Shelter	10	0.23	E–P	4–7	C–D	All species are native to the area. Plant this mix with a regular grass drill.
OR Coastal Panic Grass (*Panicum amarum var. amarulum*)	Atlantic	10	0.23				Coastal panicgrass is best adapted to Zones 7a and 7b.
AND ADD: Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	15	0.34				Creeping red fescue is a cool-season grass that will provide erosion protection while the warm-season grass (switchgrass or coastal panicgrass) is becoming established.
PLUS ONE OF THE FOLLOWING LEGUMES: Partridge Pea (*Chamaecrista fasciculata*)	Common	4	0.09				Switchgrass, coastal panicgrass, the 'Dawson' variety of creeping red fescue, and partridge pea are moderately salt tolerant. Do not use bush clover or wild indigo on wet sites.
Bush Clover (*Lespedeza capitata*)	Common	2	0.05				
Wild Indigo (*Baptisia tinctoria*)	Common	2	0.05				
2. Big Bluestem (*Andropogon gerardii*)	Niagara or Rountree	6	0.14	E–MW	6–8	C–D	All species are native to the area.
Indiangrass (*Sorghastrum nutans*)	Rumsey	6	0.14				The indiangrass and bluestems have fluffy seeds. Plant with a specialized native seed drill.
Little Bluestem (*Schizachyrium scoparium*)	Aldous or Blaze	4	0.09				
Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	15	0.34				Creeping red fescue is a cool-season grass that will provide erosion protection while the warm-season grasses are becoming established.
PLUS ONE OF THE FOLLOWING LEGUMES: Partridge Pea (*Chamaecrista fasciculata*)	Common	4	0.09				
Bush Clover (*Lespedeza capitata*)	Common	2	0.05				
Wild Indigo (*Baptisia tinctoria*)	Common	2	0.05				
Showy Tick-Trefoil (*Desmodium canadense*)	Common	1	0.05				

Mix	Recommended Cultivar	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/ 1,000 ft^2	Soil Drainage Class[2]	Max. Height (in.)	Maint. Level[3]	Remarks
Warm-Season/Cool-Season Grass Mixes							
3. SELECT THREE GRASSES: Deertongue (*Dichanthelium clandestinum*)	Tioga	20	0.46	E–MW	4–8	C–D	Excellent for excessively droughty, low pH (acidic) soils.
Canada Wild Rye (*Elymus canadensis*)	Common	3	0.07				Canada wild rye and redtop are cool-season grasses that will provide erosion protection while the warm-season grass (deertongue) is becoming established.
Redtop (*Agrostis gigantean*)	Streaker	1	0.02				
PLUS THE FOLLOWING LEGUME: Common Lespedeza (*Lespedeza striata*)	Kobe	10	0.23				Common lespedeza ('Kobe' variety) is a reseeding annual.
4. Deertongue (*Dichanthelium clandestinum*)	Tioga	15	0.34	W–P	2–3	C–D	Use Virginia wild rye on moist, shady sites. Use Canada wild rye on droughty sites.
Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	20	0.46				
Virginia Wild Rye (*Elymus virginicus*)	Common	5	0.11				
OR Canada Wild Rye (*Elymus canadensis*)	Common	5	0.11				
Cool-Season Grass Mixes							
5. SELECT TWO GRASSES: Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	20	0.46	E–SP	2–3	B–D	Use creeping red fescue in heavy shade and on moist sites.
OR Hard Fescue (*Festuca trachyphylla*)	Beacon, Gotham, Spartan II, Sword	20	0.46				Perennial ryegrass and redtop will establish more rapidly than either fescue. Redtop tolerates wet sites better than ryegrass.
Perennial Ryegrass (*Lolium perenne*)	Blazer (II), Pennfine	10	0.23				Flatpea will suppress woody vegetation. Plant in the spring, or as a dormant seeding in late fall or winter. It must be incorporated into the soil or covered with mulch. It may not be winter-hardy if planted late summer to fall. Caution: Flatpea can spread aggressively, and can be toxic to livestock.
OR Redtop (*Agrostis gigantean*)	Streaker	1	0.02				
AND ADD THE FOLLOWING LEGUME: Flatpea (*Lathyrus sylvestris*)	Lathco	15	0.34				

Mix	Recommended Cultivar	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/ 1,000 ft^2	Soil Drainage Class[2]	Max. Height (in.)	Maint. Level[3]	Remarks
Cool-Season Grass Mixes							
6. Tall Fescue (*Lolium arundinaceum*) (*formerly Festuca arundinacea*)	Recommended turf-types[4]	40	0.93	W–SP	2–3	C–D	
Perennial Ryegrass (*Lolium perenne*)	Blazer (II), Pennfine	25	0.57				
PLUS THE FOLLOWING LEGUME: White Clover (*Trifolium repens*)	Common	5	0.11				
7. Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	60	1.38	W–MW	1–2	C–D	This mix has good shade tolerance.
Kentucky Bluegrass (*Poa pratensis*)	Recommended turf-types[4]	15	0.34				
8. Tall Fescue (*Lolium arundinaceum*) (formerly *Festuca arundinacea*)	Recommended turf-types[4]	100	2.3	E–SP	2–3	A–D	Tall fescue produces a dense turf if frequently mowed, but tends to be clumpy if mowed only occasionally. For best results, recommend using a blend of 3 cultivars. Use low-endophyte cultivars in areas where livestock may graze.
9. SELECT ONE SPECIES OF FESCUE: Tall Fescue (*Lolium arundinaceum*) (formerly *Festuca arundinacea*)	Recommended turf-types[4]	60	1.38	W–SP	2–3	A–B	Good for highly managed athletic fields. Tall fescue is more suitable for compacted, high use areas and on moist sites.
OR Hard Fescue (*Festuca trachyphylla*)	Beacon, Gotham, Spartan II, Sword	40	0.92				Hard fescue produces finer-textured turf with more shade tolerance.
AND ADD: Kentucky Bluegrass (*Poa pratensis*)	Recommended turf-types[4]	40	0.92				Use tall fescue instead of hard fescue for wastewater treatment strips and areas.
Perennial Ryegrass (*Lolium perenne*)	Blazer (II), Pennfine	20	0.46				For best results, recommend using a blend of 3 cultivars each for tall fescue and Kentucky bluegrass.

Mix	Recommended Cultivar	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/ 1,000 ft^2	Soil Drainage Class[2]	Max. Height (in.)	Maint. Level[3]	Remarks
Cool-Season Grass Mixes							
10. Orchardgrass (*Dactylis glomerata*)	Any	25	0.57	W–SP	2–3	C–D	Low maintenance mix that is easy to establish.
Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	10	0.23				
Redtop (*Agrostis gigantean*)	Streaker	1	0.02				
Alsike Clover (*Trifolium hybridum*)	Common	3	0.07				Alsike clover can be toxic to horses.
White Clover (*Trifolium repens*)	Common	3	0.07				Omit the clovers if using this mix for wastewater treatment strips and areas.
11. Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	30	0.69	E–MW	2–3	B–D	
Chewings Fescue (*Festuca rubra ssp. commutata*)	Radar	30	0.69				
Kentucky Bluegrass (*Poa pratensis*)	Recommended turf-types[4]	20	0.46				
OPTIONAL ADDITION Rough Bluegrass (*Poa trivialis*)	Common	15	0.34				Add rough bluegrass in moist, shady conditions.
12. Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	25	0.57	E–MW	2–3	C–D	Attractive mix of fine fescues and wildflowers for low maintenance conditions. Once well-established, the grasses may tend to outcompete the wildflowers.
Hard Fescue (*Festuca trachyphylla*)	Beacon, Gotham, Spartan II, Sword	25	0.57				
Sheep Fescue (*Festuca ovina*)	Common or Bighorn	25	0.57				
PLUS WILDFLOWER MIX: Black-eyed Susan (*Rudbeckia hirta*)	Common	2	0.05				Wildflowers are best established by broadcasting and cultipacking on a prepared seedbed. Drilling can be also used, but care must be taken so that seeds are not drilled too deep.
Lance-leaved Coreopsis (*Coreopsis lanceolata*)	Common	2	0.05				
Partridge Pea (*Chamaecrista fasciculata*)	Common	5	0.11				Hydroseeding is not recommended for this mix if wildflowers are used. (They have very small seeds.)
OR ADD CLOVER MIX: White Clover (*Trifolium repens*)	Common	3	0.07				
Red Clover (*Trifolium pretense*)	Any	3	0.07				

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3123 DUMBARTON STREET, NW

N.W. WASHINGTON,
DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 08/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DISTRICT OF COLUMBIA
DAVID C. LANDSMAN
PE906954
CIVIL
PROFESSIONAL ENGINEER

02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	N.T.S.

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

NORTH

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

SEDIMENT CONTROL NOTES

CIV301

Mix	Recommended Cultivar	Seeding Rate[1] lb/ac	Seeding Rate[1] lb/1,000 ft^2	Soil Drainage Class[2]	Max. Height (in.)	Maint. Level[3]	Remarks
Cool-Season Grass Mixes							
13. Alkali Saltgrass (*Puccinellia distans*)	Fults or Salty	20	0.46	W–P	2–3	B–D	This is the recommended mix for saline sites. Saltgrass will persist only under saline conditions. For best results, use only the 'Dawson' variety of creeping red fescue. It is a salt-tolerant variety. Add bentgrass for wetter conditions.
Creeping Red Fescue (*Festuca rubra var. rubra*)	Navigator II	15	0.34				
Fowl Meadowgrass (*Poa palustris*)	Common	2	0.05				
OPTIONAL ADDITION Creeping Bentgrass (*Agrostis stolonifera*)	Seaside	2	0.05				

Notes:

1. Seeding Rates: Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates must be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses, legumes, or wildflowers. All legume seeds must be inoculated before planting with the appropriate Rhizobium bacteria. When feasible, scarify hard-seeded legumes scarified to improve germination.
2. Soil Drainage Class (refer to the county soil survey for further information):
   E - Excessively Drained; W - Well Drained; MW - Moderately Well Drained; SP - Somewhat Poorly Drained; P - Poorly Drained.
3. Maintenance Level:
   A - Intensive mowing (every 2 4 days), fertilization, lime, insect and weed control, and watering (examples: high maintenance lawns and athletic fields).
   B - Frequent mowing (every 4–7 days), occasional fertilization, lime, pest control, and watering (examples: residential, school, and commercial lawns).
   C - Periodic mowing (every 7–14 days), occasional fertilization and lime (examples: residential lawns, parks).
   D - Infrequent or no mowing, fertilization, or lime after the first year of establishment (examples: wildlife areas, roadsides, steep banks).
4. Turf-type cultivars of tall fescue and Kentucky bluegrass must be selected based on recommendations of the Maryland-Virginia Turfgrass Variety Recommendation Work Group.
   Kentucky Bluegrass Individual varieties selected must make up not less than 10%, nor more than 35% of the total mixture on a weight basis. All varieties must be certified. Selections can be made from Category I alone or various combinations of Categories I and II. Kentucky bluegrasses listed as "Promising" (Category II below) can account for no more than 35% of the blend by weight).
      Category I – Recommended Kentucky Bluegrass Varieties (65% to 100% of blend by weight). Aries, Blue Bank, Blue Coat, Blue Note, Bolt, Full Back, Hampton, Legend, Midnight, Noble, Skye, and Sudden Impact[3].
      Category II Promising Kentucky Bluegrasses (10% to 35% on a weight basis). Aramintha, Barvette HGT, Endurance, Heidi, Keeneland, Mazama, Merlot, NuChicago, Oasis, Skye, and Wildhorse[1] (Wildhorse is only for mixing with tall fescue).
   Tall Fescue – Both recommended and promising varieties can be used in the VCIA Sod Certification Program.
      Category I – Recommended Tall Fescue Varieties (90% to 100% on a weight basis). Annapolis, Avenger II, Black Tail, Bladerunner II[4], Bullseye, Catalyst, Dakota[4], Embrace, Falcon V, Firecracker SLS[2], Guardian 41[4], Gazelle II, Golconda[4], Gold Medallion, GTO, Hemi[3], Inferno, Integrity, Justice, Leonardo[2], Maestro, Michelangelo, Mustang 4, Penn RK4, Persuasion[4], Raptor III, Rebel IV, Reflection, Regenerate, Rendition RX, Rockwell, Saltillo, Screamer LS, Speedway[4], Spyder LS, SR 8650[4], Sunset Gold, Supersonic, Technique, Temple, Thor, Titanium 2LS, Titan Rx, Turbo, Turbo RZ[1], Xtender, and Xtremegreen.
      Category II – Promising tall fescue varieties (may be 90% to 100% of the mixture on a weight basis): 4th Millennium, Amity, Bloodhound, Crossfire 4, Fantasia, Fayette, Fesnova, Firebird 2, Firewall, Foxhound, Grande 3, Hot Rod, Houndog 8, Hover, Maestro, Nightcrawler, Paramount, Persuasion, Rebel V, Rebounder, Rhambler 2 SRP, Rhizing Moon, Rowdy, Swagger, Terrano, Traverse II SRP, Trinity, Turfway, Valkyrie LS, and Wichita.
      Kentucky bluegrass varieties recommended for mixing with tall fescue sod to enhance sod strength (up to 10% of the seed mixture by weight): All cultivars in Categories I and II above. Note recommendation of hybrid bluegrasses as promising varieties for mixtures with turf-type tall fescues in the traditionally warmer climates of Virginia.
   Varieties marked with superscript notations denote the following:
      1. To be considered for removal in 2018 due to declining performance relative to other varieties.
      2. To be considered for removal in 2018 due to declining seed quality.
      3. To be considered for removal in 2018 due to the absence of recent testing of certified seed lots in MD and VA.
      4. To be considered for removal in 2018 due to lack of recent testing in MD and VA.

Sod grass

Use sod grass to provide quick cover on disturbed areas (2:1 grade or flatter).

1. Class of turfgrass sod must comply with the grass varieties listed in Table 2.7. Make sod labels available to the job foreman and inspector.
2. Machine cut sod at a uniform soil thickness of ¾ inches, plus or minus ¼ inches, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Individual pieces of sod must be cut to the supplier's width and length. Maximum allowable deviation from standard widths and lengths is 5%. Broken pads and torn or uneven ends will not be acceptable.
3. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10% of the section.
4. Do not harvest or transplant sod when moisture content (excessively dry or wet) may adversely affect its survival.
5. Harvest, deliver, and install sod within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.

Planting Dates

The recommended planting dates for permanent cover can be found in Table 2.8.

Table 2.8 Recommended Planting Dates for Permanent Cover

Type of Plant Material	Planting Dates
Seeds - Cool-Season Grasses (includes mixes with forbs and/or legumes)	Feb 15 to Apr 30 Aug 15 to Oct 31 Nov 1 to Nov 30[3]
Seeds - Warm-Season/Cool-Season Grass Mixes (includes mixes with forbs and/or legumes)	Feb 15 to Apr 30[4] May 1 to May 31[5]
Sod - Cool-Season	Feb 15 to Apr 30 May 1 to Sep 30[5] Oct 1 to Dec 1[5, 6]

Notes:

1. When seeding toward the end of the listed planting dates, or when conditions are expected to be less than optimal, select an appropriate nurse crop from Table 2.4 Temporary Seeding for Site Stabilization and plant together with the permanent seeding mix.
2. When planted during the growing season, most of these materials must be purchased and kept in a dormant condition until planting.
3. Recommend adding a nurse crop, as noted above, if planting during this period.
4. Warm-season grasses need a soil temperature of at least 50 degrees F in order to germinate. If soil temperatures are colder than 50 degrees, or moisture is not adequate, the seeds will remain dormant until conditions are favorable. In general, planting during the latter portion of this period allows more time for weed emergence and weed control prior to planting. When selecting a planting date, consider the need for weed control vs. the likelihood of having sufficient moisture for later plantings, especially on droughty sites.
5. Additional planting dates during which supplemental watering may be needed to ensure plant establishment.
6. Frequent freezing and thawing of wet soils may result in frost-heaving of materials planted in late fall, if plants have not sufficiently rooted in place. Sod usually needs 4 to 6 weeks to become sufficiently rooted.

Minimum Soil Criteria

Minimum soil conditions required for permanent vegetative establishment include the following:

1. Soil pH must be between 6.0 and 7.0.
2. Soluble salts must be less than 500 parts per million (ppm).
3. The soil must contain less than 40% clay but enough fine grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. As an exception, it is acceptable to plant lovegrass or serecia lespedeza in sandy soil (< 30% silt plus clay).
4. Soil must contain 1.5% minimum organic matter by weight.
5. Soil must contain sufficient pore space to permit adequate root penetration.
6. If these conditions cannot be met by soils on site, topsoil must be added as required in Section 2.6 Topsoiling.

Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites with disturbed areas over 5 acres. Soil analysis may be performed by the University of the District of Columbia or a certified commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing, and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from DOEE. Deliver all fertilizers to the site fully labeled per applicable laws and bear the name, trade name or trademark, and warranty of the producer.
3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted) containing at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98% to 100% will pass through a #20 mesh sieve.

2.10.5 Construction Specifications

Site Preparation

1. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
2. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
3. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.
4. Distribute lime and fertilizer evenly and incorporate them into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons per acre (200 to 400 pounds per 1,000 square feet) prior to the placement of topsoil.

Seedbed Preparation

1. Temporary Seeding
   (a) Seedbed preparation must consist of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, do not roll or drag smooth but leave in the roughened condition. Track sloped areas (greater than 3:1) leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
   (b) Apply fertilizer and lime as prescribed on the plans.
   (c) Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Seeding – Maintain areas previously graded in conformance with the drawings in a true and even grade, then scarified or otherwise loosened to a depth of 3 to 5 inches to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.

Apply soil amendments as per soil test or as included on the plans.

Mix soil amendments into the top 3 to 5 inches of topsoil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Track steep slopes (steeper than 3:1) by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1 to 3 inches of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas.

3. Methods of Seeding – Apply seed uniformly with hydroseeder (slurry includes seed, fertilizer and mulch), broadcast or drop seeder, or a cultipacker seeder.
   (a) Hydroseeding
      i) If fertilizer is being applied at the time of seeding, the application rates will not exceed the following: nitrogen, maximum of 100 pounds per acre total of soluble nitrogen; P_2O_5 (phosphorous), 200 pounds per acre; K_2O (potassium), 200 pounds per acre.
      ii) Lime – Use only ground agricultural limestone, (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons per acre are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
      iii) Seed and fertilizer must be mixed on site and seeding must be done immediately and without interruption.
      iv) Fiber mulch may be incorporated into the hydroseeding mixture. Consult Section 2.7 Mulching for standards and specifications for mulch materials.
   (b) Dry Seeding – This includes use of conventional drop or broadcast spreaders.
      i) Incorporate seed spread dry into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 2.4 or 2.7. The seeded area must then be rolled with a weighted roller to provide good seed to soil contact.
      ii) Where practical, apply seed in two directions perpendicular to each other. Apply half the seeding rate in each direction.
   (c) Drill or Cultipacker Seeding – Mechanized seeders that apply and cover seed with soil.
      i) Cultipacking seeders are required to bury the seed in such a fashion as to provide at least ¼ inches of soil covering. Seedbed must be firm after planting.
      ii) Where practical, apply seed in two directions perpendicular to each other. Apply half the seeding rate in each direction.

4. Sod Installation – During periods of excessively high temperature or in areas having dry subsoil, the subsoil must be lightly irrigated immediately prior to laying the sod.

   The first row of sod must be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints must be staggered to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids, which would cause air drying of the roots.

   Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg, or otherwise secure sod to prevent slippage on slopes and to ensure solid contact between sod roots and the underlying soil surface.

   Immediately water sod following rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.
5. Incremental Stabilization – Cut Slopes

   Dress, prepare, seed, and mulch all cut slopes as the work progresses. Excavate and stabilize slopes in equal increments not to exceed 15 feet.

   The construction sequence is as follows (refer to Figure 2.1):

   (a) Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
   (b) Perform phase 1 excavation, dress, and stabilize.
   (c) Perform phase 2 excavation, dress, and stabilize. Overseed phase 1 areas as necessary.
   (d) Perform final phase excavation, dress, and stabilize. Overseed previously seeded areas as necessary.

   Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

Figure 2.1 Incremental stabilization – cut.

6. Incremental Stabilization of Embankments – Fill Slopes

   Construct embankments in lifts as prescribed on the plans.

   Immediately stabilize slopes when the vertical height of the multiple lifts reaches 15 feet, or when the grading operation ceases as prescribed in the plans.

   At the end of each day, construct temporary berms and pipe slope drains along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.

   The construction sequence is as follows (refer to Figure 2.2):

   (a) Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct Slope Silt Fence on low side of fill as shown in Figure 2.2, unless other methods shown on the plans address this area.
   (b) Place phase 1 embankment, dress and stabilize.
   (c) Place phase 2 embankment, dress and stabilize.
   (d) Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

   Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

Figure 2.2 Incremental stabilization – fill.

2.10.6 Maintenance

Grass Maintenance

1. Inspect all seeded areas for failures and make necessary repairs, replacements, and reseedings within the planting season.
2. Once the vegetation is established, the site must have 95% ground cover to be considered adequately stabilized.
3. If the stand provides less than 40% ground coverage, reestablish following original lime, fertilizer, seedbed preparation and seeding recommendations.
4. If the stand provides between 40% and 94% ground coverage, overseeding and fertilizing using half of the rates originally applied may be necessary.
5. Maintenance fertilizer rates for permanent seedings are shown in Table 2.9.

Table 2.9 Maintenance Fertilization for Permanent Seeding

Seeding Mixture	Type	Seeding Rate lb/ac	Seeding Rate lb/1,000 ft^2	Time	Mowing
Tall fescue makes up 70% or more of cover.	10-10-10	500	11.5	Yearly or as needed.	Not closer than 3 inches, if occasional mowing is desired.
	30-10-10	400	9.2	Fall	
Birdsfoot trefoil.	0-20-0	400	9.2	Spring, the year following establish-ment, and every 4 to 5 years, after.	Mow no closer than 2 inches.
Fairly uniform stand of tall fescue or birdsfoot trefoil.	5-10-10	500	11.5	Fall, the year following establish-ment, and every 4 to 5 years, after.	Not required, no closer than 4 inches in the fall after seed has matured.
Weeping lovegrass fairly uniform plant distribution.	5-10-10	500	11.5	Spring, the year following establish-ment, and every 3 to 4 years, after.	Not required, not closer than 4 inches in fall after seed has matured.
Red & chewings fescue, Kentucky bluegrass, hard fescue mixtures.	20-10-10	250	5.8	September, 30 days later.	Mow no closer than 2 inches for red fescue and Kentucky bluegrass, 3 inches for fescue.
		100	2.3	December, May 20, June 30, if needed.	
Red & chewings fescue, Kentucky bluegrass, hard fescue mixtures.	20-10-10	250	5.8	September, 30 days later.	Mow no closer than 2 inches for red fescue and Kentucky bluegrass, 3 inches for fescue.
		100	2.3	December, May 20, June 30, if needed.	

Sod Maintenance

1. In the absence of adequate rainfall, perform watering daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Water during the heat of the day to prevent wilting.
2. After the first week, sod watering is required as necessary to maintain adequate moisture content.
3. Do not attempt the first mowing of sod until the sod is firmly rooted. Do not remove more than a third of the grass leaf by the initial cutting or subsequent cuttings. Maintain grass height between 2 to 3 inches unless otherwise specified.

Chapter 9 Other Practices

9.1 Dust Control

9.1.1 Definition

To control blowing dust and movement on construction sites and roads.

9.1.2 Purpose

To prevent or reduce the blowing and movement of dust from disturbed soil surfaces that may create off-site damage, health hazards, and traffic safety problems.

9.1.3 Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site nuisance dust damage is likely without treatment.

9.1.4 Design Criteria

When designing a dust control plan for a site, the amount of soil exposed will dictate the quantity of dust generation and transport. Therefore, construction sequencing and disturbing only small areas at a time can greatly reduce problematic dust from a site. If land should be disturbed, consider additional temporary stabilization measures prior to disturbance.

Temporary Methods

1. Mulches – See Section 2.7 Mulching. Chemical or wood cellulose fiber binders must be used instead of asphalt to bind mulch material.
2. Vegetative Cover – See Section 2.10 Vegetative Stabilization.
3. Spray-on Adhesives – Use on mineral soils (not effective on muck soils). These are generally synthetic materials that are applied to the soil surface to act as binding agents. Asphalt-based and coal tar-based materials are not accepted. Keep traffic off these areas once they have been treated. The following table may be used for general guidance.

Table 9.1 Spray-on Adhesives Guidance

Adhesive	Water Dilution (Adhesive: Water)	Type of Nozzle	Application Rate (gallons/acre)
Latex emulsion	12.5:1	Fine spray	235
Resin-in-water emulsion	4:1	Fine spray	300
Acrylic emulsion (non-traffic)	7:1	Coarse spray	450
Acrylic emulsion (traffic)	3.5:1	Coarse spray	350

4. Tillage – This is an emergency temporary practice that will scarify the soil surface and prevent or reduce the amount of blowing dust until a more appropriate solution can be implemented. Begin the tillage operation on the windward side of site. Use a chisel-type plows to produce the best results.
5. Sprinkling – This is the most commonly used dust control practice. The site is sprinkled with water until the surface is moist and repeated as needed. This practice can be particularly effective for road construction and other traffic routes. The site must not be sprinkled to the point that runoff occurs.
6. Barriers – Solid board fences, snow fences, burlap fences, straw bales, crate walls, or similar materials can be used to control air currents and soil blowing.
7. Calcium Chloride – Can be applied as flakes or granular material with a mechanical spreader at a rate that will keep the soil surface moist but not so high as to cause water pollution or plant damage. Can be reapplied as necessary.

Permanent Methods

1. Permanent Vegetation – See Section 2.10 Vegetative Stabilization. Existing trees or large shrubs may afford valuable protection if left in place.
2. Topsoiling – Covering with less erosive soil materials. See Section 2.6 Topsoiling.
3. Stone – Cover surface with crushed stone or coarse gravel. See Section 2.3 Construction Road Stabilization and Section 2.4 Construction Debris Ground Cover.

9.1.5 Construction Specifications

1. The contractor must conduct operations and maintain the project site so as to minimize the creation and dispersion of dust. Use dust control throughout the work at the site.
2. The contractor must provide clean water, free from salt, oil, and other deleterious material to be used for on-site dust control.
3. The contractor shall supply water-spraying equipment capable of accessing all work areas.
4. The contractor shall implement strict dust control measures during active construction periods on-site. These control measures shall generally consist of water applications that shall be applied a minimum of once per day during dry weather or more often as required to prevent dust emissions.

5. For water application to undisturbed soil surfaces, the contractor shall:
   (a) Apply water with equipment consisting of tank, spray bar, and pump with discharge pressure gauge.
   (b) Arrange spray bar height, nozzle spacing and spray pattern to provide complete coverage of ground with water.
   (c) Disperse water through nozzles on spray bar at 20 psi (137.8 kPa) minimum. Keep areas damp without creating nuisance conditions such as ponding.
6. For water application to soil surfaces during demolition and/or excavation, the contractor shall:
   a) Apply water with equipment consisting of a tank, pump with discharge gauge, hoses and mist nozzles.
   b) Locate tank and spraying equipment so that the entire excavation area can be misted without interfering with demolition and/or excavation equipment or operations. Keep areas damp without creating nuisance conditions such as ponding.
   c) Apply water spray in a manner to prevent movement of spray beyond the site boundaries.

9.1.6 Maintenance

Because dust controls are dependent on specific site and weather conditions, inspection and maintenance are unique for each site. Generally, dust control measures involving application of either water or chemicals require more monitoring than structural or vegetative controls to remain effective. If structural controls are used, inspect them for deterioration on a regular basis to ensure that they are still achieving their intended purpose.

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GEORGETOWN

3123
DUMBARTON
STREET, NW

N.W. WASHINGTON,
DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 08/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DAVID C. LANDSMAN
PE906954
02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	N.T.S.

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

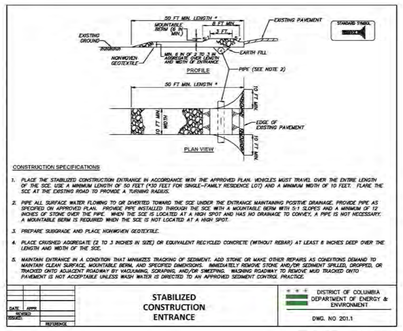
NORTH

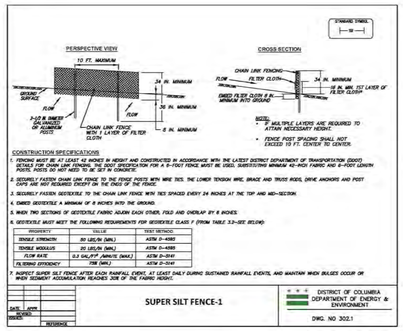
DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

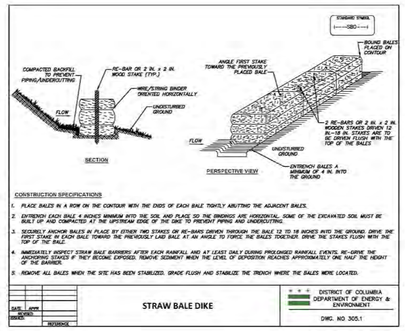
SHEET TITLE

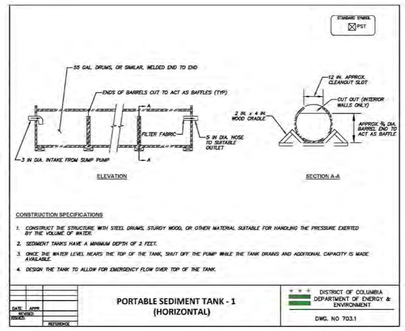
SEDIMENT CONTROL NOTES

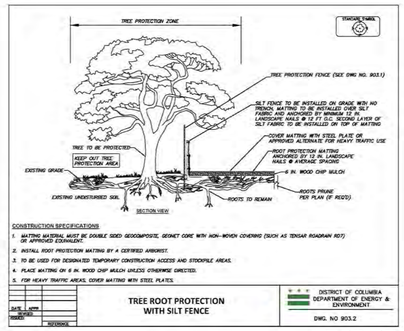
CIV302

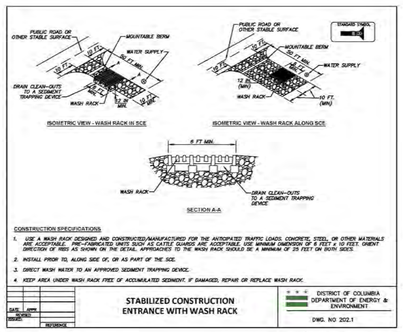


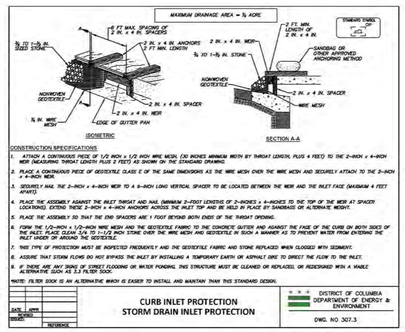


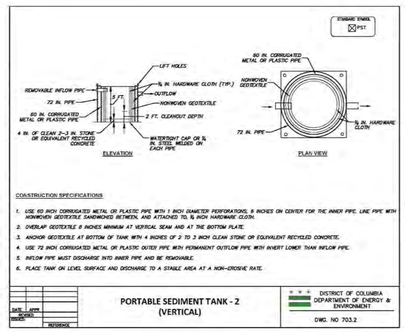


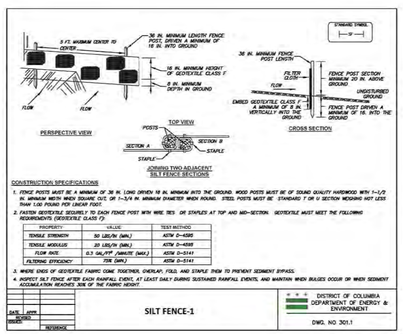


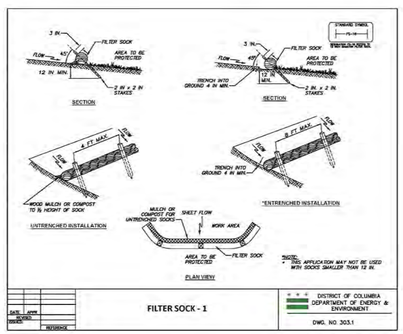


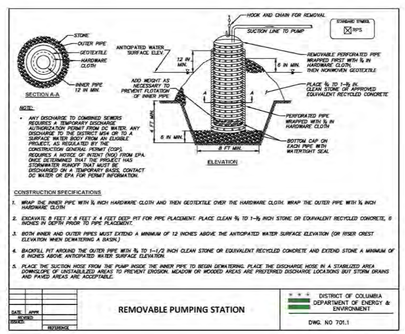


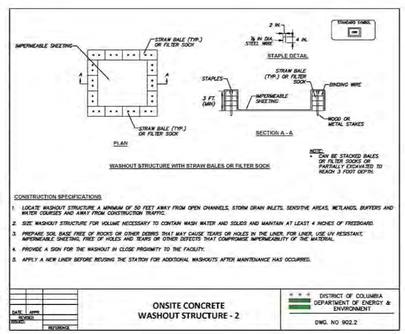


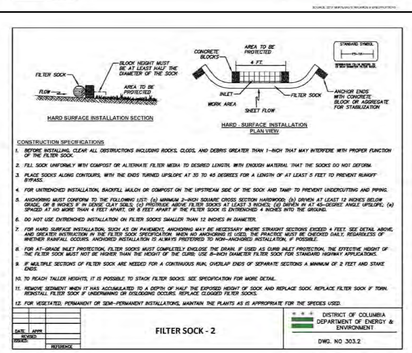


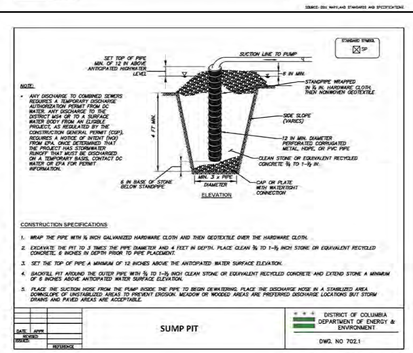












CONSTRUCTION SPECIFICATIONS

1. PLACE THE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE A MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE-FAMILY RESIDENCE LOT) AND A MINIMUM WIDTH OF 10 FEET. FLARE THE SCE AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. PROVIDE PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN THE SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

STABILIZED CONSTRUCTION ENTRANCE

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 201.1

SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS

NOTE:
- IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN NECESSARY HEIGHT.
- FENCE POST SPACING SHALL NOT EXCEED 10 FT. CENTER TO CENTER.

CONSTRUCTION SPECIFICATIONS

1. FENCING MUST BE AT LEAST 42 INCHES IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST DISTRICT DEPARTMENT OF TRANSPORTATION (DDOT) DETAILS FOR CHAIN LINK FENCING. THE DDOT SPECIFICATION FOR A 6-FOOT FENCE MUST BE USED, SUBSTITUTING MINIMUM 42-INCH FABRIC AND 6-FOOT LENGTH POSTS. POSTS DO NOT NEED TO BE SET IN CONCRETE.
2. SECURELY FASTEN CHAIN LINK FENCE TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
3. SECURELY FASTEN GEOTEXTILE TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID-SECTION.
4. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES INTO THE GROUND.
5. WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ADJOIN EACH OTHER, FOLD AND OVERLAP BY 6 INCHES.
6. GEOTEXTILE MUST MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F (FROM TABLE 3.2-SEE BELOW):

PROPERTY	VALUE	TEST METHOD
TENSILE STRENGTH	50 LBS/IN (MIN.)	ASTM D-4595
TENSILE MODULUS	20 LBS/IN (MIN.)	ASTM D-4595
FLOW RATE	0.3 GAL/FT^2 /MINUTE (MAX.)	ASTM D-5141
FILTERING EFFICIENCY	75% (MIN.)	ASTM D-5141

7. INSPECT SUPER SILT FENCE AFTER EACH RAINFALL EVENT, AT LEAST DAILY DURING SUSTAINED RAINFALL EVENTS, AND MAINTAIN WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 30% OF THE FABRIC HEIGHT.

SUPER SILT FENCE-1

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 302.1

CONSTRUCTION SPECIFICATIONS

1. PLACE BALES IN A ROW ON THE CONTOUR WITH THE ENDS OF EACH BALE TIGHTLY ABUTTING THE ADJACENT BALES.
2. ENTRENCH EACH BALE 4 INCHES MINIMUM INTO THE SOIL AND PLACE SO THE BINDINGS ARE HORIZONTAL. SOME OF THE EXCAVATED SOIL MUST BE BUILT UP AND COMPACTED AT THE UPSTREAM EDGE OF THE DIKE TO PREVENT PIPING AND UNDERCUTTING.
3. SECURELY ANCHOR BALES IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE 12 TO 18 INCHES INTO THE GROUND. DRIVE THE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. DRIVE THE STAKES FLUSH WITH THE TOP OF THE BALE.
4. IMMEDIATELY INSPECT STRAW BALE BARRIERS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. RE-DRIVE THE ANCHORING STAKES IF THEY BECOME EXPOSED. REMOVE SEDIMENT WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
5. REMOVE ALL BALES WHEN THE SITE HAS BEEN STABILIZED. GRADE FLUSH AND STABILIZE THE TRENCH WHERE THE BALES WERE LOCATED.

STRAW BALE DIKE

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 305.1

CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT THE STRUCTURE WITH STEEL DRUMS, STURDY WOOD, OR OTHER MATERIAL SUITABLE FOR HANDLING THE PRESSURE EXERTED BY THE VOLUME OF WATER.
2. SEDIMENT TANKS HAVE A MINIMUM DEPTH OF 2 FEET.
3. ONCE THE WATER LEVEL NEARS THE TOP OF THE TANK, SHUT OFF THE PUMP WHILE THE TANK DRAINS AND ADDITIONAL CAPACITY IS MADE AVAILABLE.
4. DESIGN THE TANK TO ALLOW FOR EMERGENCY FLOW OVER TOP OF THE TANK.

PORTABLE SEDIMENT TANK - 1 (HORIZONTAL)

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 703.1

SOURCE: USDA-NRCS

CONSTRUCTION SPECIFICATIONS

1. MATTING MATERIAL MUST BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR APPROVED EQUIVALENT.
2. INSTALL ROOT PROTECTION MATTING BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
4. PLACE MATTING ON 6 IN. WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, COVER MATTING WITH STEEL PLATES.

TREE ROOT PROTECTION WITH SILT FENCE

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 903.2

CONSTRUCTION SPECIFICATIONS

1. USE A WASH RACK DESIGNED AND CONSTRUCTED/MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CATTLE GUARDS ARE ACCEPTABLE. USE MINIMUM DIMENSION OF 6 FEET x 10 FEET. ORIENT DIRECTION OF RIBS AS SHOWN ON THE DETAIL. APPROACHES TO THE WASH RACK SHOULD BE A MINIMUM OF 25 FEET ON BOTH SIDES.
2. INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE.
3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

STABILIZED CONSTRUCTION ENTRANCE WITH WASH RACK

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 202.1

SUPER SILT FENCE DESIGN CRITERIA:

TABLE 3.3: SUPER SILT FENCE SLOPE LENGTH AND FENCE LENGTH CONSTRAINTS

SLOPE	SLOPE STEEPNESS	SLOPE LENGTH (MAXIMUM) (FEET)	SUPER SILT FENCE LENGTH (MAXIMUM) (FEET)
0 – 10%	0 – 10:1	Unlimited	Unlimited
10 – 20%	10:1 – 5:1	200	1,500
20 – 33%	5:1 – 3:1	150	1,00
33 – 50%	3:1 – 2:1	100	500
> 50%	> 2:1	50	250

NOTE:
- TO AVOID CIRCUMVENTION, EXTEND THE ENDS OF THE SILT FENCE 5 HORIZONTAL FEET UPSLOPE AT 45-DEGREE ANGLES RELATIVE TO THE MAIN FENCE ALIGNMENT TO PREVENT SEDIMENT ACCUMULATION.

SUPER SILT FENCE-2

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 302.2

MAXIMUM DRAINAGE AREA = ¼ ACRE

CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINUOUS PIECE OF 1/2 INCH x 1/2 INCH WIRE MESH (30 INCHES MINIMUM WIDTH BY THROAT LENGTH, PLUS 4 FEET) TO THE 2-INCH x 4-INCH WEIR (MEASURING THROAT LENGTH PLUS 2 FEET) AS SHOWN ON THE STANDARD DRAWING.
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2-INCH x 4-INCH WEIR.
3. SECURELY NAIL THE 2-INCH x 4-INCH WEIR TO A 9-INCH LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2-FOOT LENGTHS OF 2-INCHES x 4-INCHES TO THE TOP OF THE WEIR AT SPACER LOCATIONS). EXTEND THESE 2-INCH x 4-INCH ANCHORS ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. PLACE THE ASSEMBLY SO THAT THE END SPACERS ARE 1 FOOT BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2-INCH x 1/2-INCH WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE GEOTEXTILE FABRIC AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOWS DO NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.
9. IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATIVE SUCH AS 3.3 FILTER SOCK.

*NOTE: FILTER SOCK IS AN ALTERNATIVE WHICH IS EASIER TO INSTALL AND MAINTAIN THAN THIS STANDARD DESIGN.

CURB INLET PROTECTION STORM DRAIN INLET PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 307.3

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS

1. USE 60 INCH CORRUGATED METAL OR PLASTIC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER FOR THE INNER PIPE. LINE PIPE WITH NONWOVEN GEOTEXTILE SANDWICHED BETWEEN, AND ATTACHED TO, ¼ INCH HARDWARE CLOTH.
2. OVERLAP GEOTEXTILE 8 INCHES MINIMUM AT VERTICAL SEAM AND AT THE BOTTOM PLATE.
3. ANCHOR GEOTEXTILE AT BOTTOM OF TANK WITH 4 INCHES OF 2 TO 3 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE.
4. USE 72 INCH CORRUGATED METAL OR PLASTIC OUTER PIPE WITH PERMANENT OUTFLOW PIPE WITH INVERT LOWER THAN INFLOW PIPE.
5. INFLOW PIPE MUST DISCHARGE INTO INNER PIPE AND BE REMOVABLE.
6. PLACE TANK ON LEVEL SURFACE AND DISCHARGE TO A STABLE AREA AT A NON-EROSIVE RATE.

PORTABLE SEDIMENT TANK - 2 (VERTICAL)

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 703.2

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS

1. FENCE POSTS MUST BE A MINIMUM OF 36 IN. LONG DRIVEN 16 IN. MINIMUM INTO THE GROUND. WOOD POSTS MUST BE OF SOUND QUALITY HARDWOOD WITH 1-1/2 IN. MINIMUM WIDTH WHEN SQUARE CUT, OR 1-3/4 IN. MINIMUM DIAMETER WHEN ROUND. STEEL POSTS MUST BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
2. FASTEN GEOTEXTILE SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION. GEOTEXTILE MUST MEET THE FOLLOWING REQUIREMENTS (GEOTEXTILE CLASS F):

PROPERTY	VALUE	TEST METHOD
TENSILE STRENGTH	50 LBS/IN (MIN.)	ASTM D-4595
TENSILE MODULUS	20 LBS/IN (MIN.)	ASTM D-4595
FLOW RATE	0.3 GAL/FT^2 /MINUTE (MAX.)	ASTM D-5141
FILTERING EFFICIENCY	75% (MIN.)	ASTM D-5141

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, OVERLAP, FOLD, AND STAPLE THEM TO PREVENT SEDIMENT BYPASS.
4. INSPECT SILT FENCE AFTER EACH RAINFALL EVENT, AT LEAST DAILY DURING SUSTAINED RAINFALL EVENTS, AND MAINTAIN WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 30% OF THE FABRIC HEIGHT.

SILT FENCE-1

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 301.1

FILTER SOCK - 1

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 303.1

NOTE:
- ANY DISCHARGE TO COMBINED SEWERS REQUIRES A TEMPORARY DISCHARGE AUTHORIZATION PERMIT FROM DC WATER. ANY DISCHARGE TO THE DISTRICT MS4 OR TO A SURFACE WATER BODY FROM AN ELIGIBLE PROJECT, AS REGULATED BY THE CONSTRUCTION GENERAL PERMIT (CGP), REQUIRES A NOTICE OF INTENT (NOI) FROM EPA. ONCE DETERMINED THAT THE PROJECT HAS STORMWATER RUNOFF THAT MUST BE DISCHARGED ON A TEMPORARY BASIS, CONTACT DC WATER OR EPA FOR PERMIT INFORMATION.

CONSTRUCTION SPECIFICATIONS

1. WRAP THE INNER PIPE WITH ¼ INCH HARDWARE CLOTH AND THEN GEOTEXTILE OVER THE HARDWARE CLOTH. WRAP THE OUTER PIPE WITH ¼ INCH HARDWARE CLOTH.
2. EXCAVATE 8 FEET X 8 FEET X 4 FEET DEEP PIT FOR PIPE PLACEMENT. PLACE CLEAN ¾ TO 1-½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
3. BOTH INNER AND OUTER PIPES MUST EXTEND A MINIMUM OF 12 INCHES ABOVE THE ANTICIPATED WATER SURFACE ELEVATION (OR RISER CREST ELEVATION WHEN DEWATERING A BASIN.)
4. BACKFILL PIT AROUND THE OUTER PIPE WITH ¾ TO 1-1/2 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
5. PLACE THE SUCTION HOSE FROM THE PUMP INSIDE THE INNER PIPE TO BEGIN DEWATERING. PLACE THE DISCHARGE HOSE IN A STABILIZED AREA DOWNSLOPE OF UNSTABLILIZED AREAS TO PREVENT EROSION. MEADOW OR WOODED AREAS ARE PREFERRED DISCHARGE LOCATIONS BUT STORM DRAINS AND PAVED AREAS ARE ACCEPTABLE.

REMOVABLE PUMPING STATION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 701.1

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. APPLY A NEW LINER BEFORE REUSING THE STATION FOR ADDITIONAL WASHOUTS AFTER MAINTENANCE HAS OCCURRED.

ONSITE CONCRETE WASHOUT STRUCTURE - 2

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 902.2

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

SILT FENCE DESIGN CRITERIA:

TABLE 3.1: SILT FENCE SLOPE LENGTH AND FENCE LENGTH CONSTRAINTS

SLOPE STEEPNESS	SLOPE LENGTH (MAXIMUM) (FEET)	SILT FENCE LENGTH (MAXIMUM) (FEET)
FLATTER THAN 50:1 (2%)	UNLIMITED	UNLIMITED
> 50:1 TO 10:1 (2% to 10%)	125	1,000
> 10:1 TO 5:1 (10% to 20%)	100	750
> 5:1 TO 3:1 (20% to 33%)	60	500
> 3:1 TO 2:1 (33% to 50%)	40	250
> 2:1 (> 50%)	20	125

NOTE:
- IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.
- TO AVOID CIRCUMVENTION, EXTEND THE ENDS OF THE SILT FENCE UPSLOPE TO PREVENT WATER AND SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.

SILT FENCE-2

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 301.2

CONSTRUCTION SPECIFICATIONS

1. BEFORE INSTALLING, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN 1-INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE FILTER SOCK.
2. FILL SOCK UNIFORMLY WITH COMPOST OR ALTERNATE FILTER MEDIA TO DESIRED LENGTH, WITH ENOUGH MATERIAL THAT THE SOCKS DO NOT DEFORM.
3. PLACE SOCKS ALONG CONTOURS, WITH THE ENDS TURNED UPSLOPE AT 30 TO 45 DEGREES FOR A LENGTH OF AT LEAST 5 FEET TO PREVENT RUNOFF BYPASS.
4. FOR UNTRENCHED INSTALLATION, BACKFILL MULCH OR COMPOST ON THE UPSTREAM SIDE OF THE SOCK AND TAMP TO PREVENT UNDERCUTTING AND PIPING.
5. ANCHORING MUST CONFORM TO THE FOLLOWING LIST: (a) MINIMUM 2-INCH SQUARE CROSS SECTION HARDWOOD; (b) DRIVEN AT LEAST 12 INCHES BELOW GRADE, OR 8 INCHES IF IN DENSE CLAY SOILS; (c) PROTRUDE ABOVE FILTER SOCKS AT LEAST 3 INCHES; (d) DRIVEN IN AT 45-DEGREE ANGLE UPSLOPE; (e) SPACED AT NO MORE THAN 4 FEET APART, OR 8 FEET APART IF THE FILTER SOCK IS ENTRENCHED 4 INCHES INTO THE GROUND.
6. DO NOT USE ENTRENCHED INSTALLATION ON FILTER SOCKS SMALLER THAN 12 INCHES IN DIAMETER.
7. FOR HARD SURFACE INSTALLATION, SUCH AS ON PAVEMENT, ANCHORING MAY BE NECESSARY WHERE STRAIGHT SECTIONS EXCEED 4 FEET. SEE DETAIL ABOVE, AND GREATER INSTRUCTION IN THE FILTER SOCK SPECIFICATION. WHEN NO ANCHORING IS USED, THE PRACTICE MUST BE CHECKED DAILY, REGARDLESS OF WHETHER RAINFALL OCCURS. ANCHORED INSTALLATION IS ALWAYS PREFERRED TO NON-ANCHORED INSTALLATION, IF POSSIBLE.
8. FOR AT-GRADE INLET PROTECTION, FILTER SOCKS MUST COMPLETELY ENCLOSE THE DRAIN. IF USED AS CURB INLET PROTECTION, THE EFFECTIVE HEIGHT OF THE FILTER SOCK MUST NOT BE HIGHER THAN THE HEIGHT OF THE CURB; USE 8-INCH DIAMETER FILTER SOCK FOR STANDARD HIGHWAY APPLICATIONS.
9. IF MULTIPLE SECTIONS OF FILTER SOCK ARE NEEDED FOR A CONTINUOUS RUN, OVERLAP ENDS OF SEPARATE SECTIONS A MINIMUM OF 2 FEET AND STAKE ENDS.
10. TO REACH TALLER HEIGHTS, IT IS POSSIBLE TO STACK FILTER SOCKS. SEE SPECIFICATION FOR MORE DETAIL.
11. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF HALF THE EXPOSED HEIGHT OF SOCK AND REPLACE SOCK. REPLACE FILTER SOCK IF TORN. REINSTALL FILTER SOCK IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER SOCKS.
12. FOR VEGETATED, PERMANENT OR SEMI-PERMANENT INSTALLATIONS, MAINTAIN THE PLANTS AS IS APPROPRIATE FOR THE SPECIES USED.

FILTER SOCK - 2

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 303.2

NOTE:
- ANY DISCHARGE TO COMBINED SEWERS REQUIRES A TEMPORARY DISCHARGE AUTHORIZATION PERMIT FROM DC WATER. ANY DISCHARGE TO THE DISTRICT MS4 OR TO A SURFACE WATER BODY FROM AN ELIGIBLE PROJECT, AS REGULATED BY THE CONSTRUCTION GENERAL PERMIT (CGP), REQUIRES A NOTICE OF INTENT (NOI) FROM EPA. ONCE DETERMINED THAT THE PROJECT HAS STORMWATER RUNOFF THAT MUST BE DISCHARGED ON A TEMPORARY BASIS, CONTACT DC WATER OR EPA FOR PERMIT INFORMATION.

CONSTRUCTION SPECIFICATIONS

1. WRAP THE PIPE WITH ¼ INCH GALVANIZED HARDWARE CLOTH AND THEN GEOTEXTILE OVER THE HARDWARE CLOTH.
2. EXCAVATE THE PIT TO 3 TIMES THE PIPE DIAMETER AND 4 FEET IN DEPTH. PLACE CLEAN ¾ TO 1-½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
3. SET THE TOP OF PIPE A MINIMUM OF 12 INCHES ABOVE THE ANTICIPATED WATER SURFACE ELEVATION.
4. BACKFILL PIT AROUND THE OUTER PIPE WITH ¾ TO 1-½ INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
5. PLACE THE SUCTION HOSE FROM THE PUMP INSIDE THE PIPE TO BEGIN DEWATERING. PLACE THE DISCHARGE HOSE IN A STABILIZED AREA DOWNSLOPE OF UNSTABILIZED AREAS TO PREVENT EROSION. MEADOW OR WOODED AREAS ARE PREFERRED DISCHARGE LOCATIONS BUT STORM DRAINS AND PAVED AREAS ARE ACCEPTABLE.

SUMP PIT

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 702.1

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

TREE PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 903.1

6' TALL CHAIN LINK FENCE REQUIRED FOR TREE PROTECTION FENCING PER DDOT UFD REQUIREMENTS.

CONTRACTOR TO REFER TO THE DOEE 2017 EROSION AND SEDIMENT CONTROL MANUAL FOR DESIGN, CONSTRUCTION, AND MAINTENANCE SPECIFICATIONS FOR EACH ESC MEASURE.

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LOT 0831, SQUARE 1243
GEORGETOWN

3123 DUMBARTON STREET, NW

N.W. WASHINGTON,
DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 08/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DAVID C. LANDSMAN
PE906954

02/17/2021

REVISION	DATE
PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	AS SHOWN

SCALE: 1 INCH = 10 FEET

NORTH

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

SEDIMENT CONTROL DETAILS

CIV303

GENERAL NOTES

SEE PUBLIC SPACE RELATED NOTES ON SHEET CIV001.

PUBLIC SPACE SCOPE

DUMBARTON STREET, NW

FEATURES TO BE REMOVED:

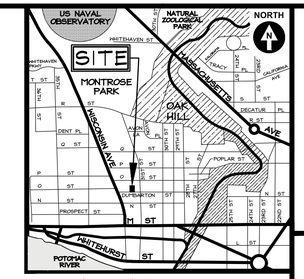
- EXISTING CURB CUT (TO BE EXPANDED)
- EXISTING CONCRETE APRON TO BE REPLACED

FEATURES TO REMAIN:

- EXISTING DRIVEWAY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING RETAINING WALLS
- EXISTING STREET TREES
- EXISTING DEPRESSED CURB AT CURB CUT
- PORTIONS OF BLUESTONE CURB TO BE DEPRESSED WITHIN WIDENED CURB CUT
- EXISTING BRICK SIDEWALK ACROSS DRIVEWAY TO BE RESET

FEATURES TO BE CONSTRUCTED:

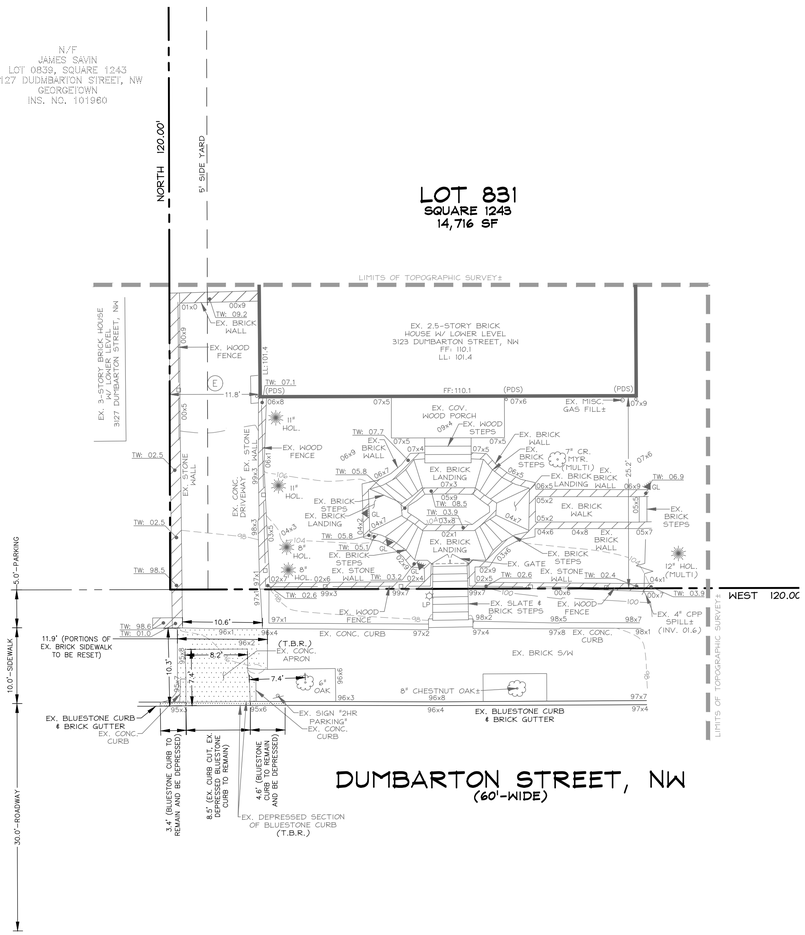
- RECONSTRUCTED/EXPANDED DRIVEWAY APRON



VICINITY MAP
ADC MAP 5528, GRID A-5
SCALE: 1" = 2000'

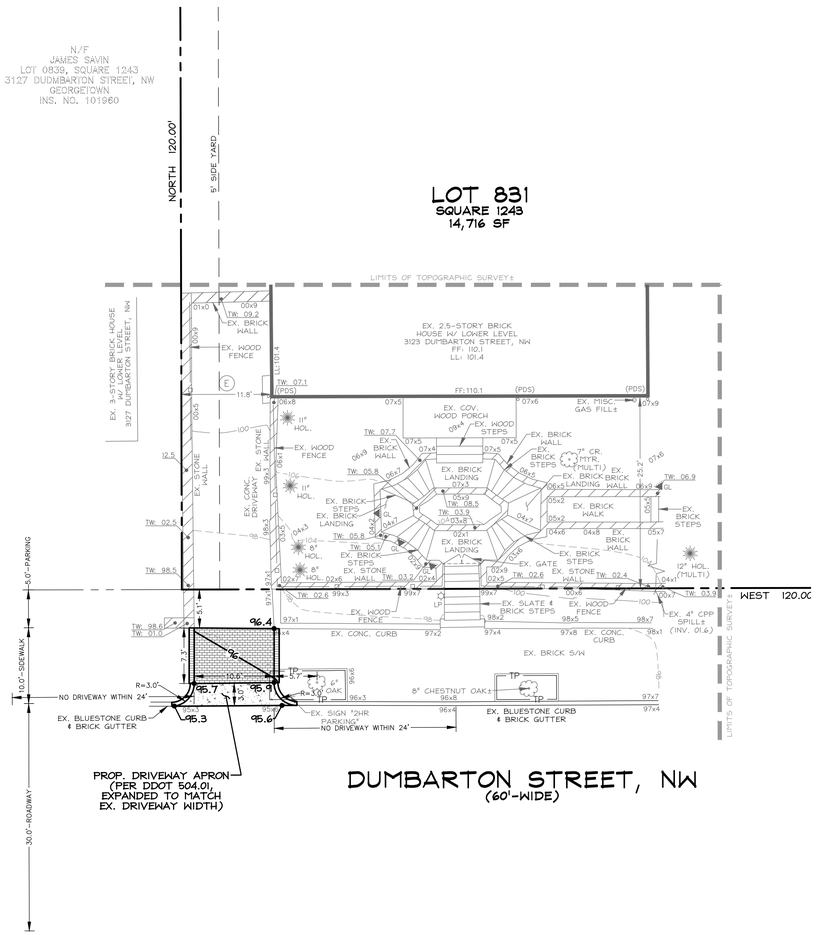
EXISTING CONDITIONS / PUBLIC SPACE DEMOLITION PLAN

SCALE: 1"=10'



PROPOSED CONDITIONS / PUBLIC SPACE CONSTRUCTION PLAN

SCALE: 1"=10'



LEGEND

PROPOSED FEATURES

- PROP. RETAINING WALL
- PROP. SURFACE DRAINAGE FLOWPATH
- LIMITS OF DISTURBANCE
- PROP. CONCRETE APRON
- PROP. BRICK SIDEWALK

UTILITY INFORMATION

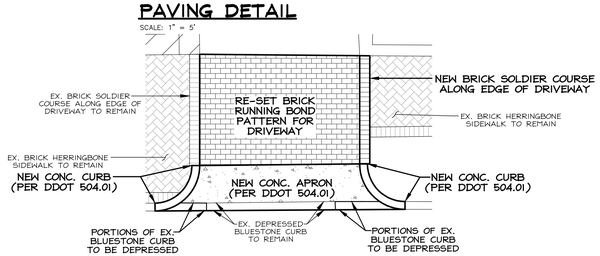
EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED. UTILITY LOCATIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY.

MISS UTILITY

FOR LOCATION OF UTILITIES, CALL "MISS UTILITY" AT 1-800-257-7777, OR LOG ON TO WWW.MISSUTILITY.NET/ITIC 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL JURISDICTIONAL REQUIREMENTS.

PAVING DETAIL

SCALE: 1" = 5'



PUBLIC SPACE RESTORATION TO BE DONE AS NECESSARY PER DDOT PERMIT OR APPLICABLE DETAILS.

FOR MORE INFORMATION, SEE ADDITIONAL PROFILES, NOTES, COMPUTATIONS, AND DETAILS ON CIV200-SERIES SHEETS.

CONTRACTOR TO PROTECT TREES (BRANCHES, TRUNK, ROOTS) ON NEIGHBORING LOTS THAT OVERLAP THE L.O.D. AND HERITAGE TREES ON SITE. COORDINATE WITH DDOT UFA WARD 2 ARBORIST AS APPLICABLE. CONTRACTOR TO USE A TRENCHLESS SILT FENCE METHOD AND TO HORIZONTALLY BORE OR AIR SPADE EXCAVATE FOR UTILITIES WITHIN THE CANOPY OF ANY TREE TO BE PRESERVED (INCLUDING PROTECTING TREES ON ADJACENT PROPERTIES). COORDINATE WITH DDOT WARD 2 ARBORIST AS APPLICABLE. THE DDOT WARD 2 LEAD ARBORIST IS REBECCA SCHWARTZ, rebecca.schwartz@dc.gov; (202) 779-2370.

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I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 08/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DISTRICT OF COLUMBIA · DAVID C. LANGMAN · PE906954 · CIVIL ENGINEER · PROFESSIONAL ENGINEER

02/17/2021

PERMIT SET	01.11.2021
REVISED PER CFA COMMENTS	02.17.2021

REVISION	DATE

CAS PROJECT	18-170B-DC
DATE	02/2021
DRAWN BY	MSL
CHECKED BY	DCL
APPROVAL	DCL
SCALE	1"=10'

5 0 5 10 20
SCALE: 1 INCH = 10 FEET

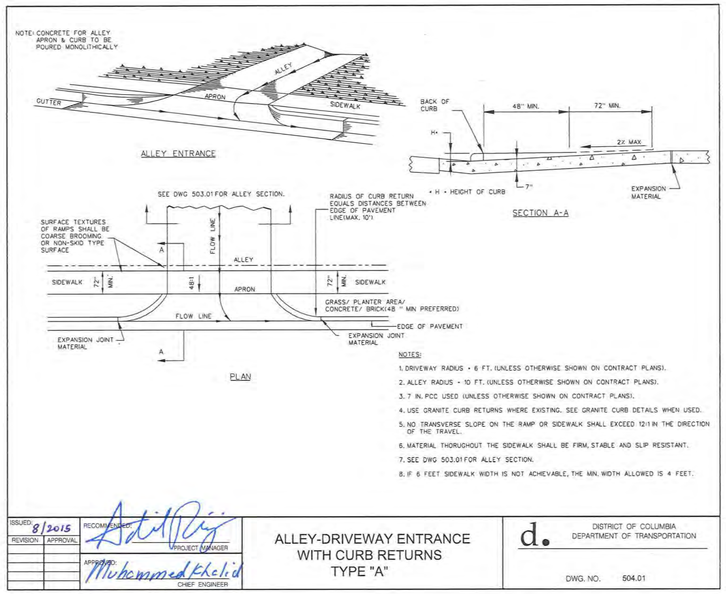
NORTH

DATUM:
VERTICAL
DC WATER
HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

PUBLIC SPACE PLAN

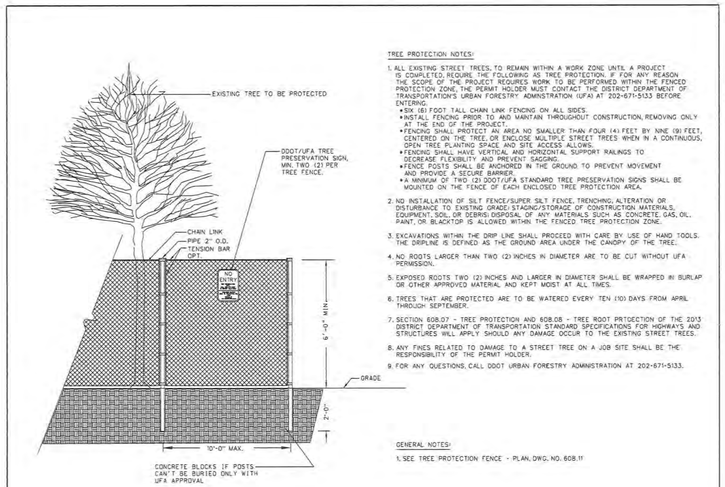
CIV400



NOTES:

1. DRIVEWAY RADIUS = 6 FT. (UNLESS OTHERWISE SHOWN ON CONTRACT PLANS).
2. ALLEY RADIUS = 10 FT. (UNLESS OTHERWISE SHOWN ON CONTRACT PLANS).
3. 7 IN. PCC USED (UNLESS OTHERWISE SHOWN ON CONTRACT PLANS).
4. USE GRANITE CURB RETURNS WHERE EXISTING. SEE GRANITE CURB DETAILS WHEN USED.
5. NO TRANSVERSE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF THE TRAVEL.
6. MATERIAL THORUGHOUT THE SIDEWALK SHALL BE FIRM, STABLE AND SLIP RESISTANT.
7. SEE DWG 503.01 FOR ALLEY SECTION.
8. IF 6 FEET SIDEWALK WIDTH IS NOT ACHEVABLE, THE MIN. WIDTH ALLOWED IS 4 FEET.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	ALLEY-DRIVEWAY ENTRANCE WITH CURB RETURNS TYPE "A"	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Muhammed Khalid, CHIEF ENGINEER		DWG. NO. 504.01



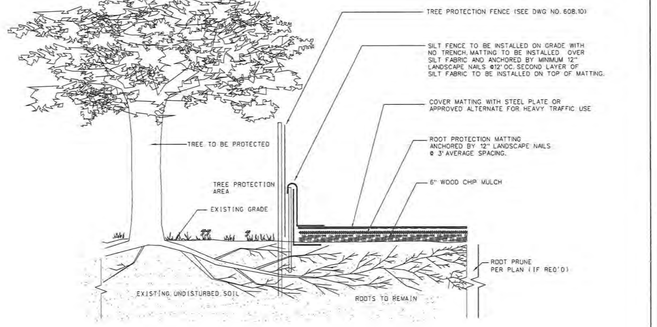
TREE PROTECTION NOTES:

1. ALL EXISTING STREET TREES TO REMAIN WITHIN A WORK ZONE UNTIL A PROJECT IS COMPLETED, REQUIRE THE FOLLOWING AS TREE PROTECTION. IF FOR ANY REASON THE SCOPE OF THE PROJECT REQUIRES WORK TO BE PERFORMED WITHIN THE FENCED PROTECTION ZONE, THE PERMIT HOLDER MUST CONTACT THE DISTRICT DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION (UFA) AT 202-671-5133 BEFORE ENTERING.
   - SIX (6) FOOT TALL CHAIN LINK FENCING ON ALL SIDES.
   - INSTALL FENCING PRIOR TO AND MAINTAIN THROUGHOUT CONSTRUCTION, REMOVING ONLY AT THE END OF THE PROJECT.
   - FENCING SHALL PROTECT AN AREA NO SMALLER THAN FOUR (4) FEET BY NINE (9) FEET, CENTERED ON THE TREE, OR ENCLOSE MULTIPLE STREET TREES WHEN IN A CONTINUOUS, OPEN TREE PLANTING SPACE AND SITE ACCESS ALLOWS.
   - FENCING SHALL HAVE VERTICAL AND HORIZONTAL SUPPORT RAILINGS TO DECREASE FLEXIBILITY AND PREVENT SAGGING.
   - FENCE POSTS SHALL BE ANCHORED IN THE GROUND TO PREVENT MOVEMENT AND PROVIDE A SECURE BARRIER.
   - A MINIMUM OF TWO (2) DDOT/UFA STANDARD TREE PRESERVATION SIGNS SHALL BE MOUNTED ON THE FENCE OF EACH ENCLOSED TREE PROTECTION AREA.
2. NO INSTALLATION OF SILT FENCE/SUPER SILT FENCE, TRENCHING, ALTERATION OR DISTURBANCE TO EXISTING GRADE/ STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS DISPOSAL OF ANY MATERIALS SUCH AS CONCRETE, GAS, OIL, PAINT, OR BLACKTOP IS ALLOWED WITHIN THE FENCED TREE PROTECTION ZONE.
3. EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS. THE DRIPLINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF THE TREE.
4. NO ROOTS LARGER THAN TWO (2) INCHES IN DIAMETER ARE TO BE CUT WITHOUT UFA PERMISSION.
5. EXPOSED ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.
6. TREES THAT ARE PROTECTED ARE TO BE WATERED EVERY TEN (10) DAYS FROM APRIL THROUGH SEPTEMBER.
7. SECTION 608.07 - TREE PROTECTION AND 608.08 - TREE ROOT PROTECTION OF THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES WILL APPLY SHOULD ANY DAMAGE OCCUR TO THE EXISTING STREET TREES.
8. ANY FINES RELATED TO DAMAGE TO A STREET TREE ON A JOB SITE SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER.
9. FOR ANY QUESTIONS, CALL DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-5133.

GENERAL NOTES:

1. SEE TREE PROTECTION FENCE - PLAN, DWG. NO. 608.11

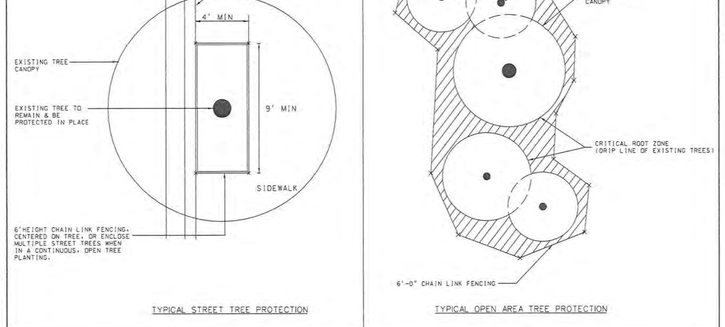
ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	TREE PROTECTION FENCE - ELEVATION	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Muhammed Khalid, CHIEF ENGINEER		DWG. NO. 608.10



NOTES:

1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR APPROVED EQUIVALENT.
2. ROOT PROTECTION MATTING SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
4. MATTING SHALL BE PLACED ON 6" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH STEEL PLATES.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	TREE ROOT PROTECTION W/SILT FENCE	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Muhammed Khalid, CHIEF ENGINEER		DWG. NO. 608.12



NOTES:

1. FOR STREET TREES (TREES PLANTED IN THE TREE PLANTING SPACE BETWEEN CURB AND SIDEWALK), REFER TO DETAIL ABOVE LABELED "TYPICAL STREET TREE PROTECTION". FOR TREES IN OPEN AREAS (PUBLIC PARKING BEHIND SIDEWALK OR PARK SPACE), REFER TO DETAIL ABOVE LABELED "TYPICAL OPEN AREA TREE PROTECTION".
2. SEE TREE PROTECTION FENCE-ELEVATION, DWG. NO. 608.10 FOR TREE PROTECTION NOTES.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	TREE PROTECTION FENCE - PLAN VIEW	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Muhammed Khalid, CHIEF ENGINEER		DWG. NO. 608.11

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LOT 0831, SQUARE 1243
GEORGETOWN

3123 DUMBARTON STREET, NW

N.W. WASHINGTON, DISTRICT OF COLUMBIA

ENGINEER ATTESTATION:

I AM RESPONSIBLE FOR DETERMINING THAT THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICABLE ARE IN COMPLIANCE WITH ALL LAWS AND REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED, OR DIRECTLY SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

I FURTHER CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE DISTRICT OF COLUMBIA, LICENSE NUMBER PE906954, EXPIRATION DATE 06/31/2020. THIS ATTESTATION APPLIES ONLY TO CIVIL ENGINEERING AND RELATED COMPONENTS TO THE EXTENT THEY ARE WITHIN OUR SCOPE OF SERVICES FOR THIS PROJECT, AND BEAR MY SEAL AND SIGNATURE.

DISTRICT OF COLUMBIA · DAVID C. LANDSMAN · PE906954 · PROFESSIONAL ENGINEER · CIVIL

02/17/2021

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SCALE: 1 INCH = 10 FEET

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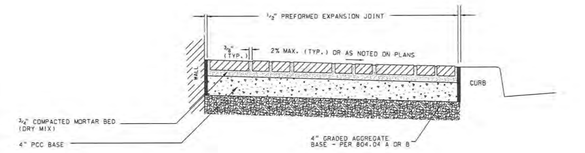
LIBER 4294 | FOLIO 433

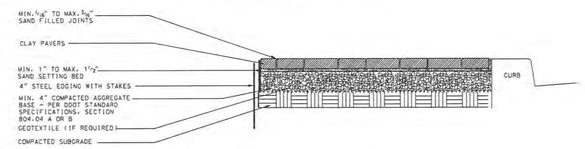
SHEET TITLE

PUBLIC SPACE DETAILS

CIV401



BRICK ON 4" PCC BASE - SECTION

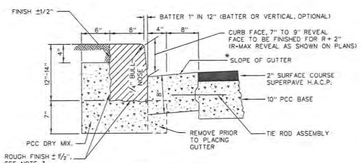


BRICK ON SAND & GRAVEL BASE - SECTION

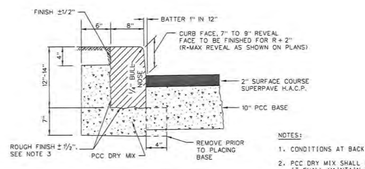
NOTES:

1. BRICK PATTERN SHALL BE AS SHOWN ON DWG NO. 605.05 OR PER APPROVED CONTRACT PLANS
2. SAND SHALL BE CONCRETE SAND (ASTM C33), OR APPROVED EQUAL
3. BRICK ON SAND & GRAVEL TO BE USED ONLY WITH APPROVAL FROM THE CHIEF ENGINEER

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	BRICK SIDEWALK SETTING BED	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Mohammed Khalid CHIEF ENGINEER		DWG. NO. 605.04



8" x 12" GRANITE CURB (WITH PCC GUTTER)

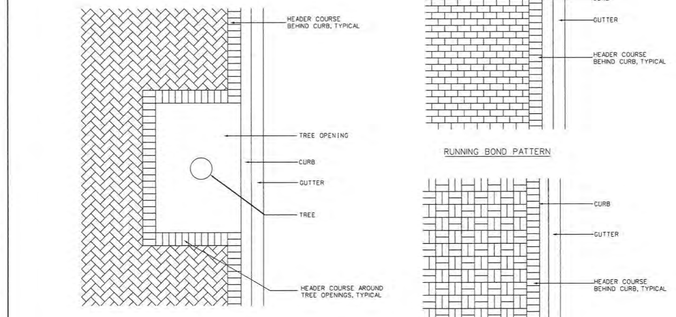


8" x 12" GRANITE CURB (WITHOUT PCC GUTTER)

NOTES:

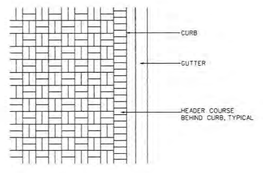
1. CONDITIONS AT BACK OF CURB VARY AND ARE AS SHOWN ON THE CONTRACT PLANS.
2. PCC DRY MIX SHALL BE PER DDOT STANDARD SPECIFICATIONS, SECTION 801. IT SHALL MAINTAIN THE SAME TIME LIMITS AS PCC AND SHALL BE WATERED DOWN AFTER SETTING OF GRANITE CURB.
3. THE MINIMUM DEPTH TO CONCAVE SURFACE ON ROUGH FINISH SHALL BE 10 IN.
4. GRANITE CURBS ARE SHOWN WITH A COMPOSITE PAVEMENT SECTION.
5. * LOW SIDE = 1 IN. PER FT. TOWARD CURB
   * HIGH SIDE = ¾ IN. PER FT. AWAY FROM CURB
6. A 6 IN. MIN. LAYER OF GRADED AGGREGATE BASE SHALL BE PLACED BENEATH THE ROADWAY AND CURB AND GUTTER AND IS NOT SHOWN FOR CLARITY.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	TYPES OF GRANITE CURBS	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Mohammed Khalid CHIEF ENGINEER		DWG. NO. 606.02



HERRINGBONE PATTERN

RUNNING BOND PATTERN

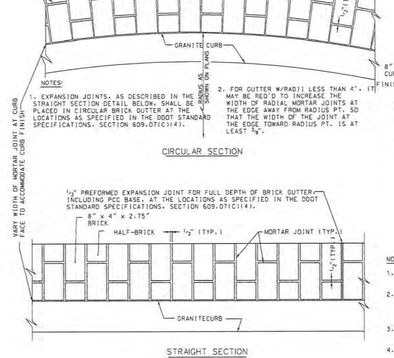


BASKET WEAVE PATTERN

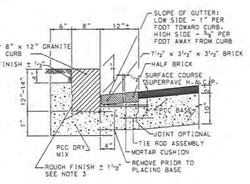
NOTES:

1. REFER TO DWG. NO. 605.04 FOR BRICK SETTING BED.
2. REFER TO CHAPTER 31 IN DESIGN AND ENGINEERING MANUAL FOR MORE INFORMATION.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	PATTERNS FOR BRICK SIDEWALK	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Mohammed Khalid CHIEF ENGINEER		DWG. NO. 605.05



CIRCULAR SECTION



8" x 12" GRANITE CURB WITH BRICK GUTTER

STRAIGHT SECTION

NOTES:

1. CONDITIONS AT BACK OF CURB VARY AND ARE AS SHOWN ON THE CONTRACT PLANS.
2. PCC DRY MIX SHALL BE PER DDOT STANDARD SPECIFICATIONS, SECTION 801. IT SHALL MAINTAIN THE SAME TIME LIMITS AS PCC AND SHALL BE WATERED DOWN AFTER SETTING OF GRANITE CURB.
3. THE MINIMUM DEPTH TO CONCAVE SURFACE ON ROUGH FINISH SHALL BE 10 IN.
4. GRANITE CURB IS SHOWN WITH A COMPOSITE PAVEMENT SECTION.
5. A 6 IN. MIN. LAYER OF GRADED AGGREGATE BASE SHALL BE PLACED BENEATH THE ROADWAY AND CURB AND GUTTER AND IS NOT SHOWN FOR CLARITY.

ISSUED: 8/2015	RECOMMENDED: PROJECT MANAGER	PATTERNS FOR BRICK GUTTER	d. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION
REVISION / APPROVAL	APPROVED: Mohammed Khalid CHIEF ENGINEER		DWG. NO. 606.04

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DISTRICT OF COLUMBIA · DAVID C. LANSMAN · PE906954 · PROFESSIONAL ENGINEER · CIVIL

02/17/2021

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SCALE	AS SHOWN

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SCALE: 1 INCH = 10 FEET

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HORIZONTAL
DC SURVEYOR'S OFFICE
LIBER 4294 | FOLIO 433

SHEET TITLE

PUBLIC SPACE DETAILS

CIV402

3123 DUMBARTON STREET

TOP ROW PHOTOGRAPHED FROM TOP OF DRIVEWAY, EXITING THE DRIVEWAY TO THE STREET.
THE EAST CURB PROTRUSION (TOP LEFT PHOTO ON PAGE) IS THE PROBLEM AND SHOULD BE ALIGNED WITH THE PARKING DRIVEWAY

BOTTOM ROW PHOTOGRAPHED FROM STREET LOOKING INTO PARKING AREA OF DRIVEWAY
AS A CAR FULLS INTO THE DRIVEWAY FROM THE STREET, THE EAST CURB CUT (BOTTOM RIGHT PHOTO ON PAGE) IS TOO NARROW AND IS IN THE WAY OF THE RIGHT FRONT TIRE OF THE ENTERING CAR

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DAVID C. LANGSMAN
PE906954
CIVIL
PROFESSIONAL ENGINEER

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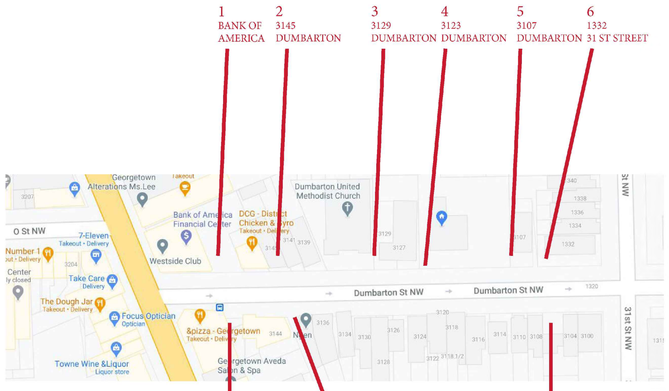
SHEET TITLE

CONTEXTUAL SITE PHOTOGRAPHS

CIV700

LEGEND FOR ALL DRIVEWAYS LOCATED ON THE SAME BLOCK OF DUMBARTON AS 3123 DUMBARTON STREET



1
BANK OF AMERICA

2
3145 DUMBARTON

3
3129 DUMBARTON

4
3123 DUMBARTON

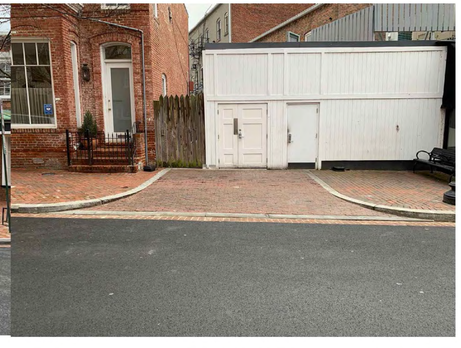
5
3107 DUMBARTON

6
1332 31ST STREET

7
3104 DUMBARTON

8
3144 DUMBARTON

9
WELLS FARGO / &PIZZA



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SHEET TITLE

CONTEXTUAL SITE PHOTOGRAPHS

CIV701