

TERRACE MANOR, LLC
 SQUARE 5894, LOT 0063
 ZONED: RA-1

SANITARY STRUCTURE TABLE

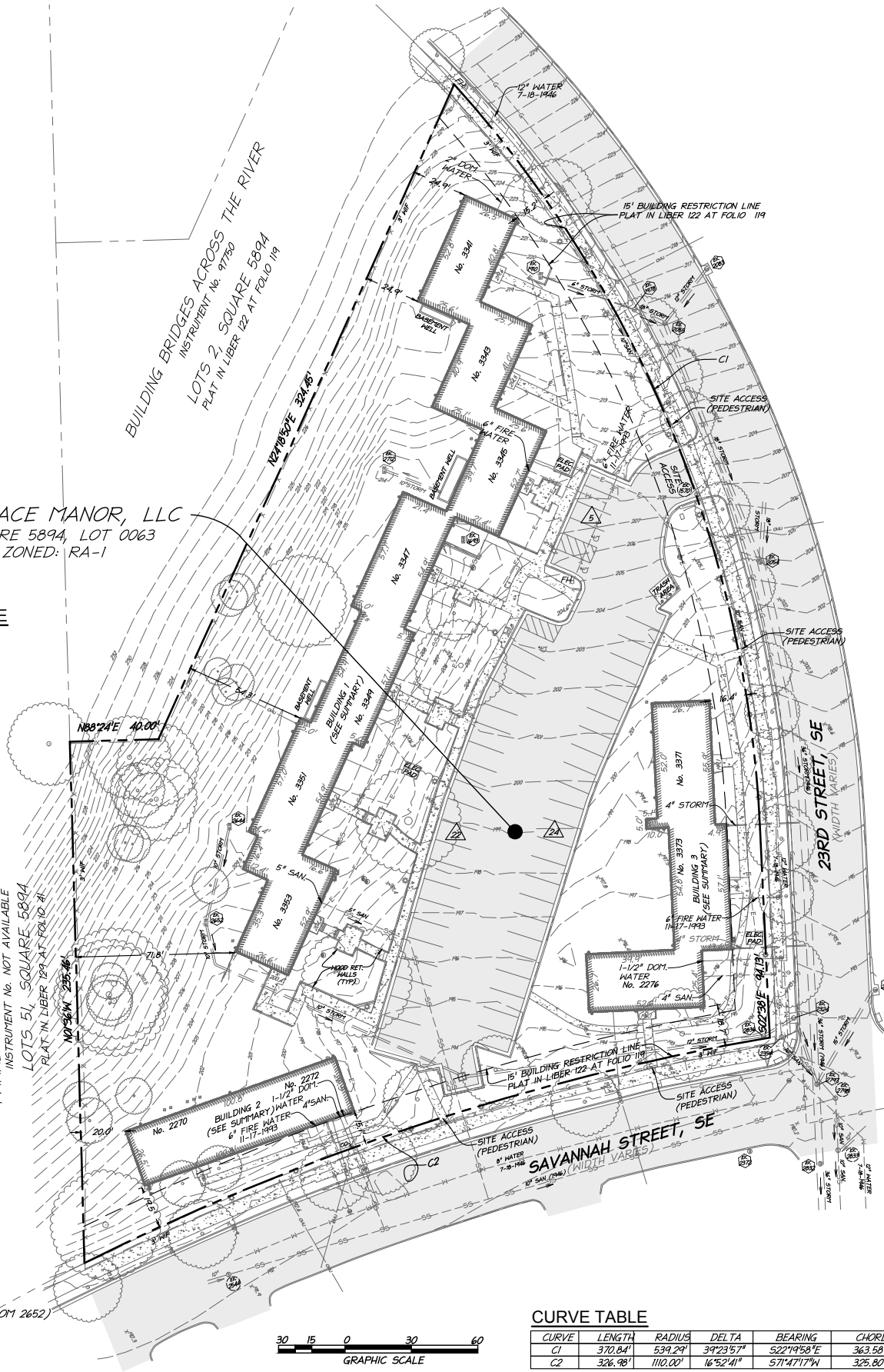
SS 2830 TOP = 244.48' LID LOCKED - NO ACCESS
SS 1570 TOP = 207.80' INV IN = 194.65' (10' FROM 2830) INV OUT = 194.60' (10' TO 2354)
SS 2354 TOP = 192.04' INV IN = 179.04' (10' FROM 1570) INV OUT = 178.94' (10' TO 2798)
SS 2544 TOP = 192.34' INV IN = 179.44' (10' FROM WEST) INV OUT = 179.39' (10' TO 2798)
SS 2798 TOP = 191.02' INV IN = 177.62' (10' FROM 2354) INV IN = 177.52' (10' FROM 2544) INV OUT = 177.47' (10' TO 2833)
SS 2833 TOP = 190.27' INV IN = 177.47' (10' FROM EAST) INV IN = 177.02' (10' FROM 2798) INV OUT = 177.04' (10' TO SOUTH)

STORM STRUCTURE TABLE

1693 (DROP INLET GRATE) TOP = 205.36' INV OUT = INACCESSIBLE	2055 (MANHOLE) TOP = 215.08' INV IN = 208.48' (18' FROM 1978) INV IN = 207.63' (12' FROM 2083) INV OUT = 206.78 (18' TO 2054)
2712 (DROP INLET GRATE) TOP = 213.77' INV IN = 211.52' (10' CIP FROM BUILDING) INV OUT = FILLED WITH DEBRIS (211.07' AT DEBRIS)	2054 (MANHOLE) TOP = 203.86' INV IN = 187.46' (18' FROM 2055) INV IN = 193.26' (18' FROM NORTHEAST) INV OUT = 187.51 (36' TO 2797)
1910 (DROP INLET GRATE) TOP = 219.05' INV OUT = 216.70' (6' CIP TO 1978)	2797 (MANHOLE) TOP = 191.13' INV IN = 181.58' (36' FROM 2054) INV OUT = 181.53 (36' TO 2832)
1978 (MANHOLE & DROP INLET) TOP = 216.46' INV NOT FOUND - FILLED WITH DEBRIS	2832 (MANHOLE) TOP = 189.89' INV IN = 181.54' (36' FROM 2792) INV OUT = 181.54' (36' TO SOUTH)
2083 (MANHOLE & DROP INLET) TOP = 216.81' INV OUT = 212.26' (12' TO 2055)	2836 (MANHOLE) TOP = 192.96' INV IN = 187.70' (12' RCP FROM WEST) INV OUT = 187.59' (12' TO 2324)

2122 (MANHOLE & DROP INLET) TOP = 192.70' INV OUT = 188.10' (15' TO UNKNOWN)
2324 (MANHOLE & DROP INLET) TOP = 192.23' INV NOT FOUND - FILLED WITH DEBRIS
2372 (MANHOLE & DROP INLET) TOP = 190.76' INV NOT FOUND - FILLED WITH DEBRIS
2644 (DROP INLET GRATE) TOP = 210.19' INV OUT = 207.84' (10' CIP TO 2652)
2652 (DROP INLET GRATE) TOP = 206.72' INV IN = FILLED WITH DEBRIS (10' CIP FROM 2652) INV OUT = 204.19' (10' CIP TO EO1)

PARKLANDS MANOR ASSOC LP
 INSTRUMENT NO. NOT AVAILABLE
 LOTS 51, SQUARE 5894
 PLAT IN LIBER 129 AT FOLIO 41



CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	370.84'	539.29'	34°23'57"	S22°14'58"E	363.58'
C2	326.98'	110.00'	16°52'41"	S71°47'17"W	325.80'

LEGEND

Symbols	
(Symbol)	FIRE HYDRANT
(Symbol)	WATER MANHOLE/METER
(Symbol)	SANITARY MANHOLE
(Symbol)	CLEANOUT
(Symbol)	STORM DRAIN MANHOLE
(Symbol)	DROP INLET GRATE
(Symbol)	POWER POLE
(Symbol)	GUY WIRE
(Symbol)	LIGHT POLE
(Symbol)	ELECTRIC MANHOLE
(Symbol)	HANDICAP PARKING SPACE
(Symbol)	PARKING SPACE COUNTS
(Symbol)	DOWNSPOUT
Linetypes	
(Linetype)	CURB & GUTTER
(Linetype)	PROPERTY LINES
(Linetype)	FENCE LINE
(Linetype)	OVERHEAD UTILITY LINE
(Linetype)	ELECTRIC LINE
(Linetype)	GAS LINE
(Linetype)	WATER LINE
(Linetype)	STORM SEWER LINE
(Linetype)	SANITARY SEWER LINE
Hatching	
(Hatching)	ASPHALT
(Hatching)	CONCRETE
Abbreviations	
(Symbol)	WIF WROUGHT IRON FENCE

GENERAL NOTES

- THE PROPERTY SHOWN HEREON IS NOW IN THE NAME OF TERRACE MANOR, LLC RECORDED IN DEED BOOK 214, PAGE 111 AMONG THE LAND RECORDS OF THE DISTRICT OF COLUMBIA SURVEYOR'S OFFICE (DCSO). THE PROPERTY IS ZONED RA-1.
- THE PROPERTY HAS A RECORD AND MEASURED AREA OF 100,265 SQUARE FEET (2.3018 ACRES).
- BOUNDARY AND PHYSICAL IMPROVEMENTS SHOWN HEREON IS BASED ON A CURRENT FIELD SURVEY PERFORMED BY THIS FIRM BETWEEN OCTOBER 3, 2017 AND OCTOBER 10, 2017.
- HORIZONTAL DATUM SHOWN HEREON IS DCSO NORTH AS ESTABLISHED BY THIS SURVEY.
- DURING THE PROCESS OF OUR PHYSICAL SURVEY NO INDICATIONS OF CEMETERIES, GRAVE SITES AND BURIAL GROUNDS WERE FOUND. NO FURTHER INSPECTION OF THIS PROPERTY HAS BEEN MADE FOR POSSIBLE CEMETERIES.
- NO CERTIFICATION IS MADE AS TO THE LOCATIONS OF UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO ELECTRIC, GAS, TELEPHONE, CATV, WATER, SANITARY AND STORM SEWERS.
- NO GEOTECHNICAL, SUBSURFACE, FIELD REVIEWS, RESEARCH, AGENCY OR GOVERNMENTAL RECORD REVIEWS, OR OTHER INVESTIGATIONS HAVE BEEN MADE FOR THE PURPOSE OF LOCATING, OR DETERMINING THE EXISTENCE OF WETLANDS, HAZARDOUS MATERIALS, OR OTHER ENVIRONMENTAL CONCERNS ON SITE IN THE PERFORMANCE OF THIS SURVEY BY CHRISTOPHER CONSULTANTS, LTD FOR THE PROPERTY AS SHOWN HEREON.
- ALL BUILDING DIMENSIONS ARE MEASURED AT THE OUTSIDE GROUND LEVEL OF BUILDING. OVERALL SQUARE FOOTAGE HAS BEEN DETERMINED BY EXTERIOR DIMENSIONS AT GROUND LEVEL.
- EXISTING PARKING SPACES: 48 STANDARD, 3 HANDICAP, 51 TOTAL

BUILDING SUMMARY







- BUILDING 1: 3341-3353 23RD STREET, S.E. (PER LOCATION DRAWING DATED 08/02/2012 PREPARED BY MILLENNIUM ENGINEERING, LLC.)
 3 STORY BRICK BUILDING
 AREA = 110,303 SQUARE FEET (SEE GENERAL NOTE B)
 HEIGHT = 131.1'
- BUILDING 2: 2270-2272 SAVANNAH STREET, S.E. (PER LOCATION DRAWING DATED 08/02/2012 PREPARED BY MILLENNIUM ENGINEERING, LLC.)
 3 STORY BRICK BUILDING
 AREA = 12,669 SQUARE FEET (SEE GENERAL NOTE B)
 HEIGHT = 131.8'
- BUILDING 3: 2276 SAVANNAH STREET, S.E., 3371-3373 23RD STREET, S.E. (PER LOCATION DRAWING DATED 08/02/2012 PREPARED BY MILLENNIUM ENGINEERING, LLC.)
 3 STORY BRICK BUILDING
 AREA = 14,427 SQUARE FEET (SEE GENERAL NOTE B)
 HEIGHT = 126.2'

DEMOLITION NOTES

- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL OFF-SITE DISPOSAL FACILITY.
- REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.
- CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BID AND CONSTRUCTION. ANY DISCREPANCIES IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IN WRITING, PRIOR TO FINAL BID AND STARTING ANY WORK.
- CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS TO ENSURE PROPER CONNECTIONS WITH PROPOSED UTILITIES.
- PROPOSED WATER AND SEWER UTILITY WORK WITHIN THE PUBLIC RIGHT-OF-WAY TO BE PERFORMED UNDER INSPECTION OF DC WATER.
- ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRICAL, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE RECORDS AND FIELD VERIFIED WHERE POSSIBLE. THE LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK. REPORT AND DISCREPANCY TO THE ENGINEER, CONTACT 'MISS UTILITY' AT 1-800-257-7777, AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- CONTRACTOR MUST HAND DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURES. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- ALL SIDEWALKS, CURBS, CURBS & CUTTER AND DRIVEWAYS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN COMPLETE SECTIONS TO THE NEAREST JOINT PER DDOT STANDARDS AND SPECIFICATIONS AT NO ADDITIONAL COST.
- NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAINED CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD THE RELOCATION OF SERVICE(S) BE REQUIRED.
- EXISTING UTILITIES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AS PER UTILITY PURVEYOR'S STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH UTILITY PURVEYOR'S. THIS INCLUDES EXISTING TRANSFORMERS AND CONCRETE TRANSFORMER PADS.
- REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE INDICATED ON DRAWINGS. ALL EXISTING ON-SITE FENCING IS TO BE REMOVED.
- ALL EXISTING DC STREETLIGHT POLES THAT ARE BEING PERMANENTLY REMOVED MUST BE RETURNED IN GOOD CONDITION TO THE DISTRICT OF COLUMBIA WAREHOUSE AT 1735 15TH STREET, NE OFF OF WEST VIRGINIA AVENUE. CONTACT NUMBER 202-576-5258.
- IN AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF ANY UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE OWNER OF THE UTILITY.
- ANY DAMAGE SUSTAINED TO UTILITIES ABOVE AND BELOW GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACKFILL OR EXCAVATE THE AFFECTED UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER. BACKFILL REMOVED FROM TRENCHES MAY ONLY BE REUSED IF IT COMPLIES WITH THE FILL REQUIREMENTS LISTED IN THE SPECIFICATIONS.
- EXISTING WATER AND SEWER SERVICES NOT REQUIRED FOR FUTURE USE ARE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER OF SERVICE TO BE CAPPED AT MAIN AND EXISTING VALVES AND TEES TO BE REMOVED PER DC WATER STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH DC WATER UTILITY INSPECTOR AT 202-787-4299. PAVEMENT TO BE REMOVED PER DDOT STANDARDS AND SPECIFICATIONS.
- ABANDONMENT OF EXISTING 2" AND SMALLER DIAMETER WATER SERVICES:
 - ASSURE THAT FINAL METER READING HAS BEEN OBTAINED. RETURN DC WATER OWNED WATER METER WITH AMR READING, TRANSMITTER (IF ANY) TO DC WATER CUSTOMER SERVICE METER BRANCH.
 - EXCAVATE AND EXPOSE THE EXISTING TAP, AND CAP THE CONNECTION AT PUBLIC WATER MAIN. THE REMAINING WATER SERVICE PIPE IS ABANDONED IN PLACE.
 - WHEN METER PIT IS LOCATED IN PUBLIC SPACE, REMOVE FRAME AND COVER, AND BACKFILL IT.
 - A MINIMUM OF THE TOP TWO (2) FEET OF ALL EXISTING VALVE BOXES DESIGNATED TO BE ABANDONED, INCLUDING THE FRAME AND COVER, SHALL BE REMOVED. THE REMAINING PORTION OF THE STRUCTURE SHALL BE FILLED WITH NON-COMPACTABLE SELECT STONE BACKFILL.
- UTILITY ABANDONMENT WORK WILL BE COMPLETED DURING THE RAZE PROCESS.
- CONTRACTOR TO BE RESPONSIBLE FOR LAYOUT, EXTENT AND DESIGN OF SHEETING, SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING AND UNDERPINNING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, LICENSED IN THE DISTRICT OF COLUMBIA, HIRED BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND UTILITIES.
- EXISTING STREET LIGHT POLE RELOCATIONS WILL REQUIRE NEW POWER LINE CONNECTIONS INTO EXISTING ELECTRICAL CONDUITS OR MANHOLES, WHICH MAY REQUIRE ADDITIONAL PAVEMENT REMOVAL AND REPLACEMENT.
- CONTACT DDOT-PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT 202-645-6030 OR 202-645-6031
- FOR ALL EXISTING PIPES THAT ARE SHOWN TO BE REMOVED, IF ANY PORTION OF THE EXISTING PIPE IS LEFT IN THE GROUND, IT MUST BE GROUTED FULL.
- CONTRACTOR TO PROVIDE TREE PROTECTION PER DDOT'S, URBAN FORESTRY ADMINISTRATION STANDARDS FOR ALL EXISTING TREES THAT ARE TO REMAIN WITHIN PUBLIC SPACE.

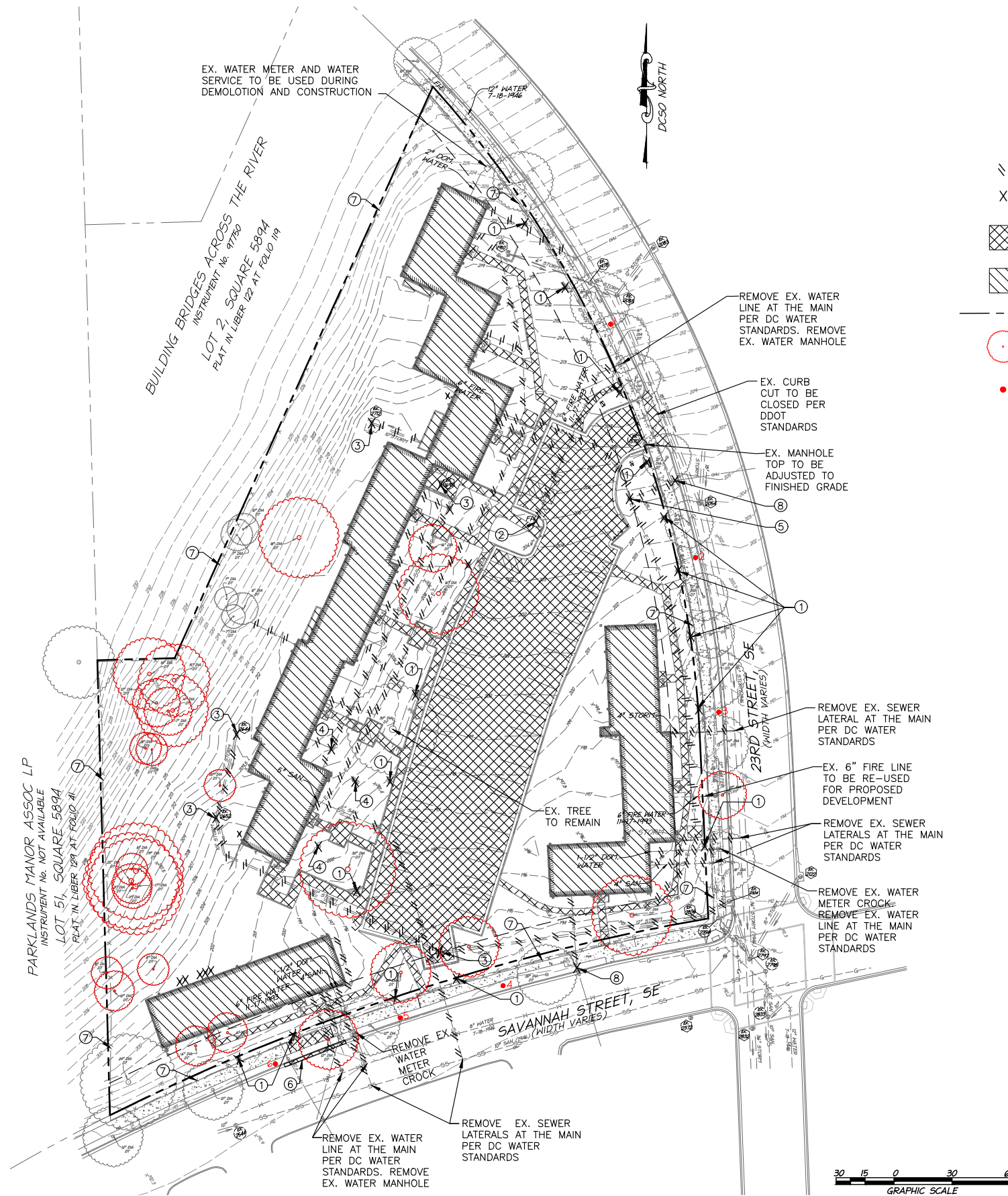
EXISTING CONDITIONS / DEMOLITION PLAN

DEMOLITION LEGEND

-  EX. UTILITY LINE TO BE REMOVED
 -  EX. MISCELLANEOUS SITE FEATURE OR STRUCTURE TO BE REMOVED
 -  EX. PAVEMENT TO BE REMOVED ALONG WITH ASSOCIATED CURB & GUTTER, STEPS & RETAINING WALLS
 -  EX. BUILDING TO BE REMOVED, INCLUDING ALL ASSOCIATED ITEMS
 -  PROPERTY LINES
 -  EX. TREE TO BE REMOVED
- SIX RANDOM PIECES OF ~24" RCP STICKING UP OUT OF THE GROUND. REMOVE THEM. IF THE PIPE KEEPS GOING THEN CUT THEN OFF ~1' BELOW GRADE, GROUT, AND COVER THEM WITH DIRT AND GRASS SEED.

ADDITIONAL DEMOLITION CALL-OUTS

- REMOVE EX. SITE LIGHT
- REMOVE EX. FIRE HYDRANT
- REMOVE EX. STORM INLET OR STORM MANHOLE
- REMOVE EX. CLEANOUT
- REMOVE EX. ELECTRIC MANHOLE
- REMOVE EX. CURB & GUTTER
- REMOVE EX. SITE FENCING



PROJECT NARRATIVE

THE PROJECT IS LOCATED AT 3301 23RD STREET SE, WASHINGTON, DC. THE SITE PROPERTY IS COMPOSED OF THREE PARCELS OPERATING AS A RESIDENTIAL APARTMENT COMPLEX. THE EXISTING APARTMENTS BUILDINGS WILL BE RAZED, INCLUDING THE EXISTING PARKING AREA, AND A NEW 4-STORY APARTMENT BUILDING WITH UNDERGROUND PARKING WILL BE CONSTRUCTED. THERE ARE 130 RESIDENTIAL UNITS PROPOSED AS PART OF THIS PROJECT.





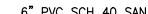

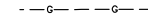
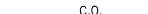



THE EXISTING BUILDING HAS EXISTING ELECTRIC, TELECOM, WATER AND SANITARY SEWER SERVICES. ALL OF THESE EXISTING SERVICES WILL BE ABANDONED OR REMOVED.

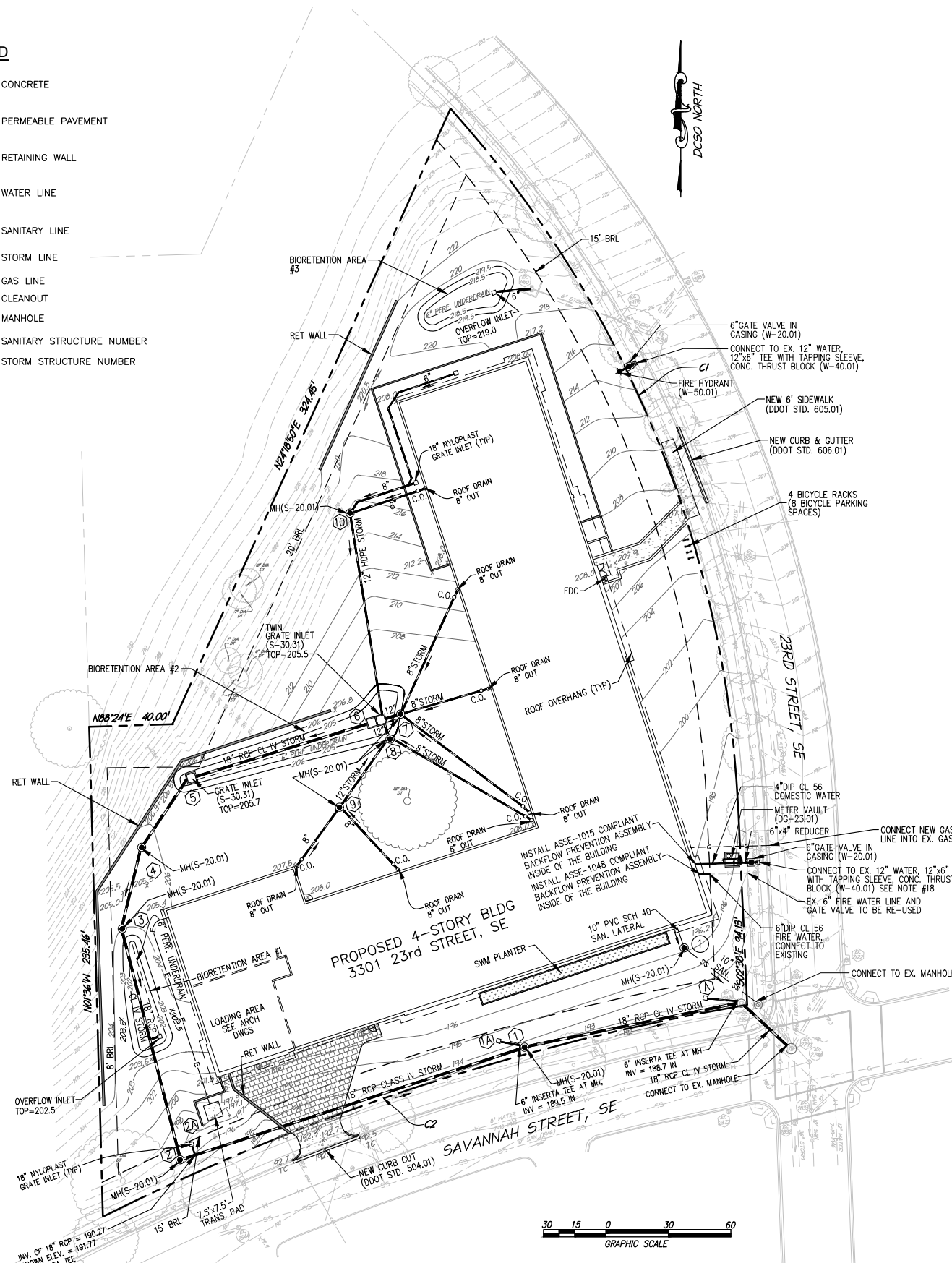
NEW UTILITIES WILL BE PROVIDED TO SERVICE THE PROPOSED APARTMENT BUILDING AS PART OF THIS PROJECT, WHICH INCLUDES A NEW DOMESTIC WATER LINE, A NEW FIRE WATER LINE, NEW STORM AND SANITARY LATERALS, AND NEW ELECTRIC SERVICE.

THE SITE DRAINS FROM THE NORTHWEST TO THE SOUTHEAST WITH EXISTING SLOPES MOSTLY IN THE RANGE OF 8 TO 15% ONSITE AND SOME ADJOINING SLOPES UP TO 40%. THE EXISTING SOILS ONSITE HAVE BEEN ALTERED BY PREVIOUS DEVELOPMENT AND PREDOMINATELY CONSIST OF REPORT URBAN LAND COMPLEX AND UDORTHANTS. THE ADJOINING STEEP SLOPES CONSIST OF CHRISTIANA-URBAN LAND COMPLEX AND CROOM VERY GRAVELLY SANDY LOAM. ONSITE SOIL TESTING INDICATES PERCOLATION RATES THAT WILL REQUIRE SWM/BMP MEASURES TO HAVE UNDERDRAINS.

THERE ARE NO EXISTING STORMWATER MANAGEMENT (SWM) FACILITIES ON THE PROPERTY. PROPOSED SWM MEASURES AS PART OF THIS PROJECT INCLUDE GREEN ROOF, BIORETENTION FACILITIES AND PLANTING LARGE TREES.

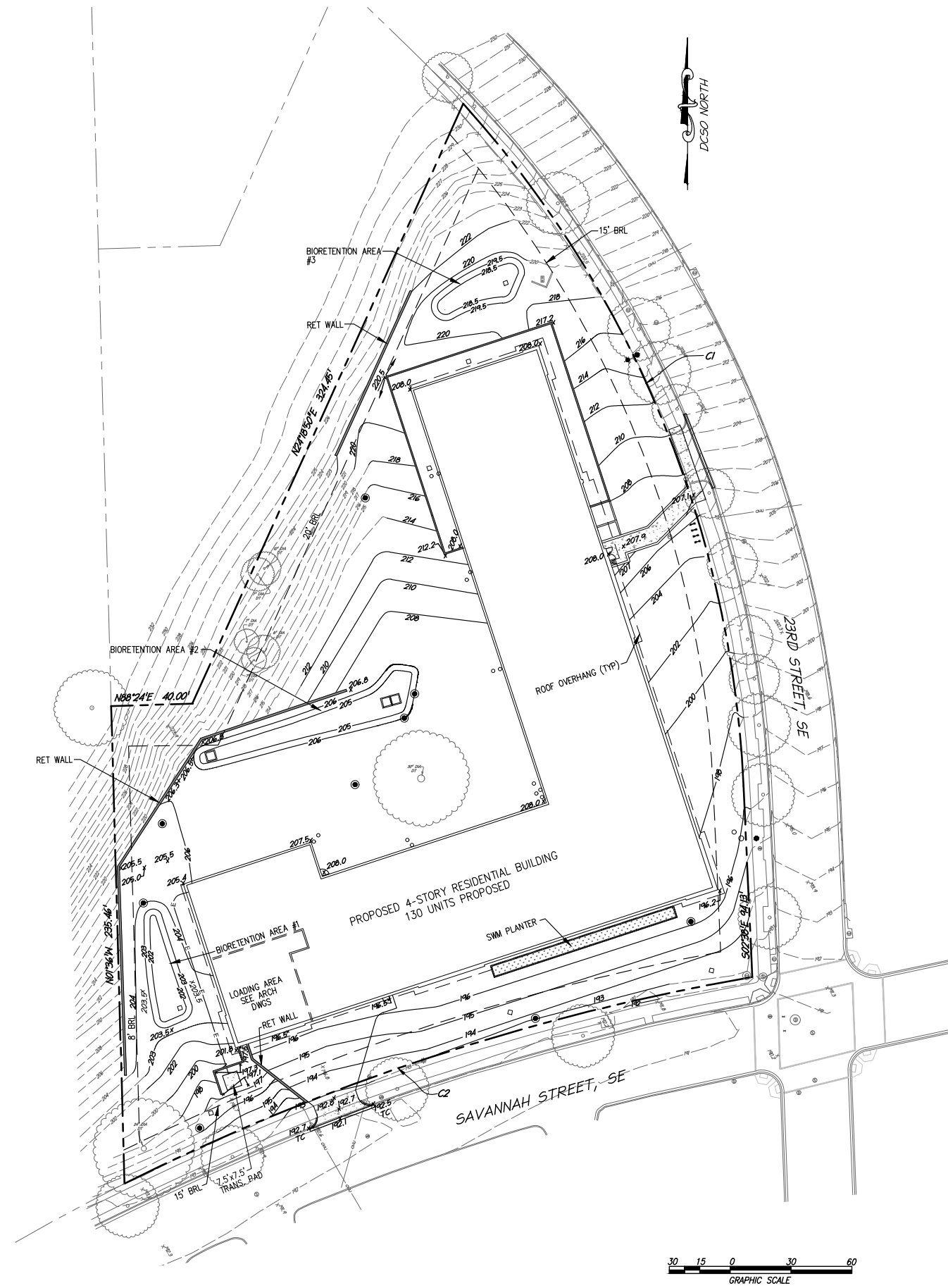
PROPOSED LEGEND

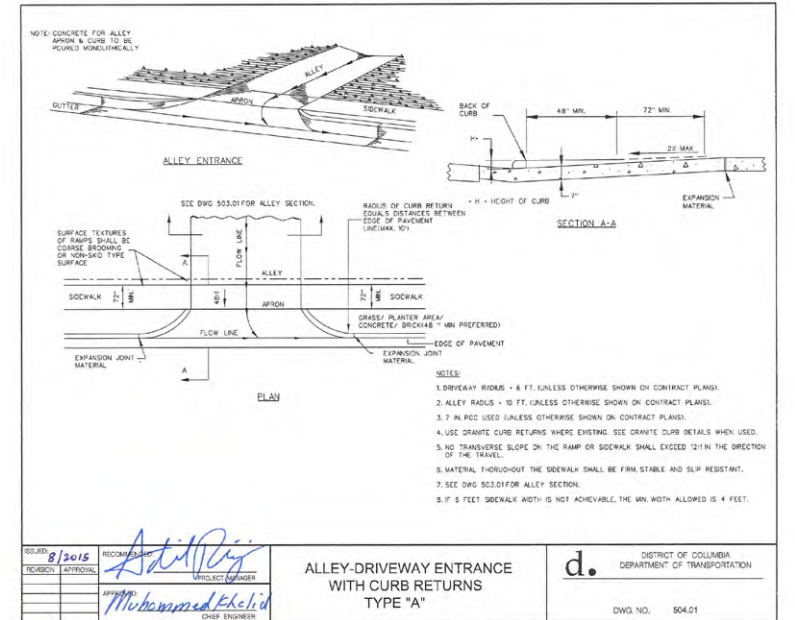
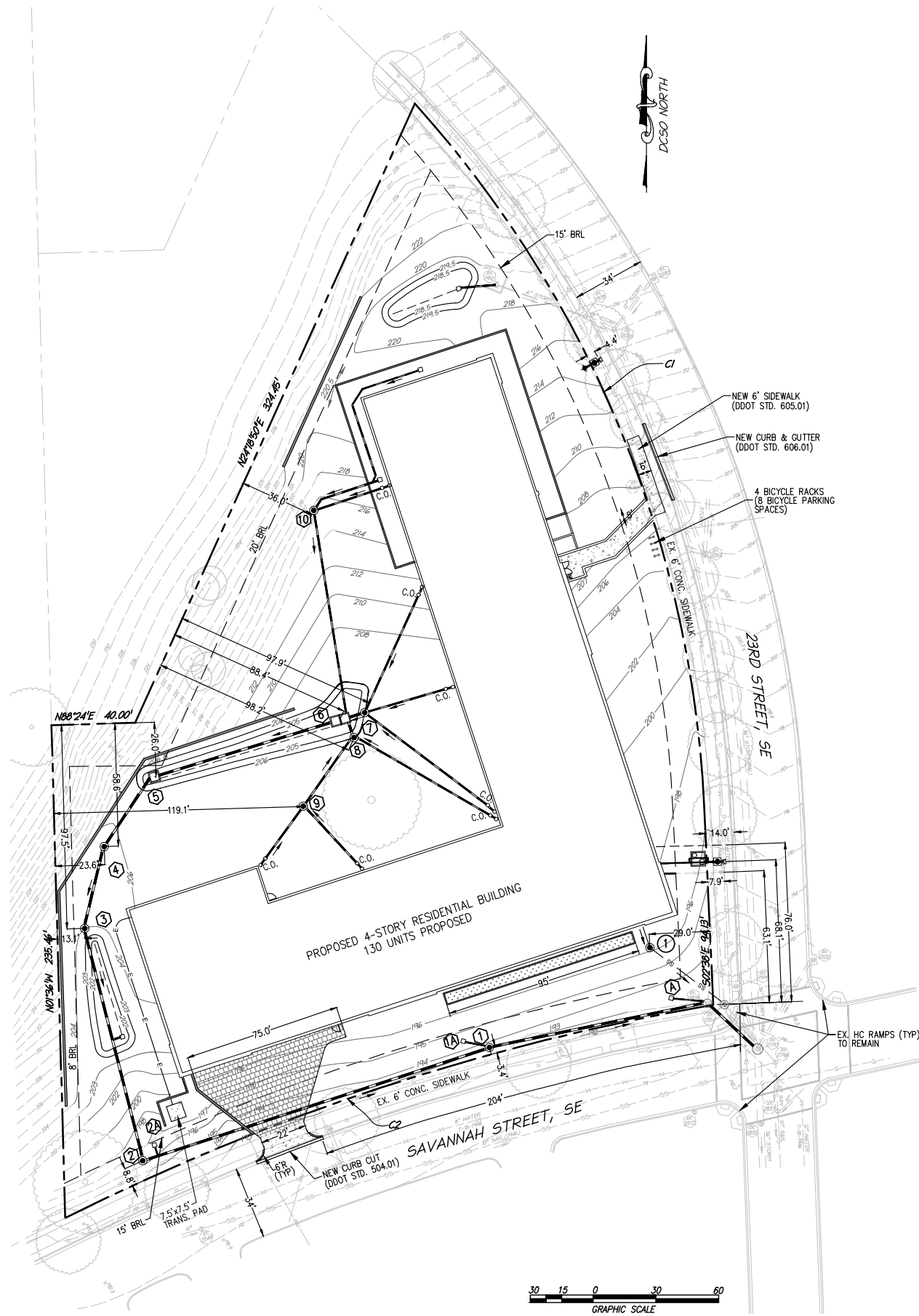
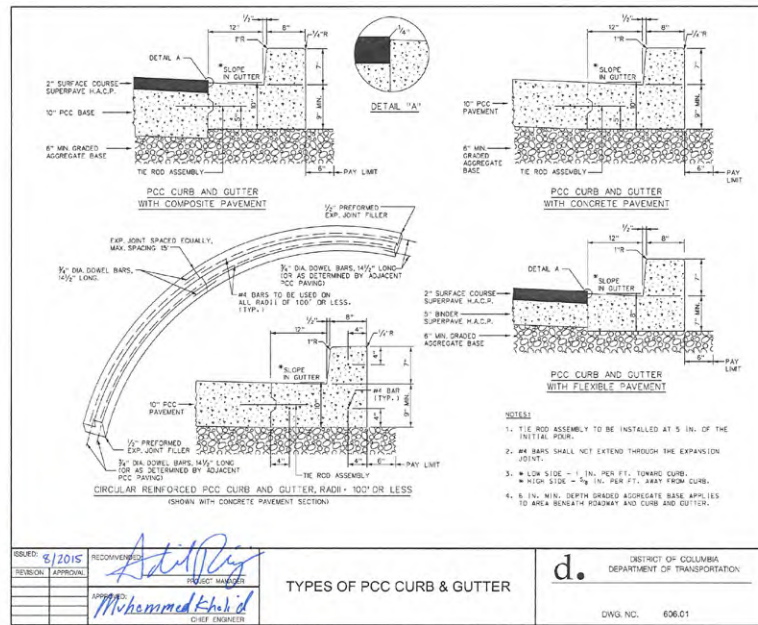
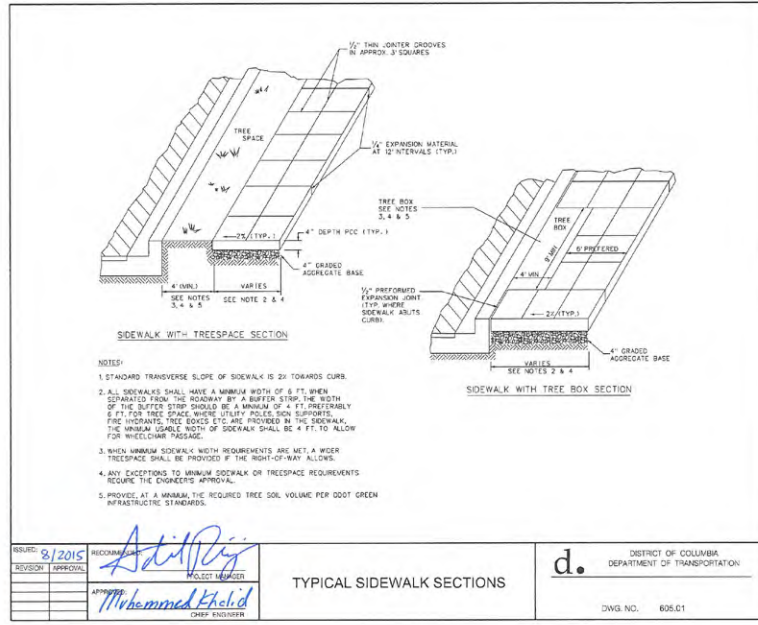
	PROPOSED CONCRETE
	PROPOSED PERMEABLE PAVEMENT
	PROPOSED RETAINING WALL
	PROPOSED WATER LINE
	PROPOSED SANITARY LINE
	PROPOSED STORM LINE
	PROPOSED GAS LINE
	PROPOSED CLEANOUT
	PROPOSED MANHOLE
	PROPOSED SANITARY STRUCTURE NUMBER
	PROPOSED STORM STRUCTURE NUMBER



NOTES

- WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATIONS AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
- DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK OR PAVEMENT, CENTERLINE OF PIPE OR UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.
- FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES AS NEEDED.
- OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY IF ANY INFORMATION CONCERNING FOUND UTILITY IS NOT SHOWN ON PLANS.
- EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT OR ENGINEER.
- TEST PITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO IDENTIFY HORIZONTAL LOCATIONS, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- IF A 1' MINIMUM VERTICAL CLEARANCE CANNOT BE MAINTAINED AT UTILITY CROSSINGS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND GRADE OR AS DIRECTED BY ENGINEER.
- ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- ALL NEW WATER LINES TO HAVE A MINIMUM COVER OF 4 FEET. WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED PER DC WATER STANDARDS AND SPECIFICATIONS.
- WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO AN EXCAVATION IN THE VICINITY OF ANY GAS TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205.
- PROVIDE A MINIMUM OF 5 FEET OF HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
- ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF DDOT AND DC WATER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, DRIVEWAYS, CURB AND GUTTER THAT IS TO REMAIN OR TO REPLACE SIDEWALK, DRIVEWAYS, AND/OR CURB AND GUTTER DAMAGED DURING CONSTRUCTION.
- EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DDOT STANDARDS AND SPECIFICATIONS.
- ALL STORM DRAINS 12" IN DIAMETER OR SMALLER SHALL BE SCHEDULE 40 PVC PIPE. ALL STORM DRAINS OVER 12" IN DIAMETER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV.
- CONTRACTOR TO VERIFY IN THE FIELD THAT THE INSTALLATION OF DOMESTIC WATER LINE CONNECTION AT THE MAIN WILL NOT IMPACT THE UNDISTURBED SOIL BEHIND THE THRUST BLOCK AT THE TEE CONNECTION OF THE EXISTING FIRE WATER LINE THAT IS TO REMAIN. COORDINATE WITH THE CIVIL ENGINEER IF IT MAY BE NECESSARY TO SHIFT THE DOMESTIC LINE A LITTLE BIT FURTHER TO THE NORTH.
- CONTRACTOR TO CLEAN THE EXISTING YARD INLET AND EXISTING 6" STORM SEWER OUTFALL PIPE ALL THE WAY OUT TO EXISTING STORM STRUCTURE #1978 LOCATED WITHIN PUBLIC SPACE. CONTRACTOR TO NOTIFY ENGINEER AND OWNER SHOULD THEY DISCOVER THAT EITHER THE INLET OR STORM PIPE ARE COMPROMISED AFTER CLEANING. IF SO, CONTRACTOR TO PROVIDE OWNER WITH AN ALTERNATE PRICE TO REPLACE THE INLET AND/OR STORM PIPE UP TO STRUCTURE #1978.





STORMWATER MANAGEMENT NARRATIVE

THE EXISTING TERRACE MANOR APARTMENT BUILDINGS AND THE EXISTING PARKING LOT AREA ON THE PROPERTY WILL BE DEMOLISHED. THE PROJECT PROPOSES A NEW APARTMENT BUILDING AS WELL AS UNDERGROUND PARKING. THIS WORK IS CONSIDERED A MAJOR LAND DISTURBING ACTIVITY AND SHALL PROVIDE ON-SITE RETENTION OF THE FIRST 1.2 INCHES OF RAINFALL FOR THE ENTIRE AMOUNT OF DISTURBED AREA (93,470 SF). THESE NUMBERS WERE USED FOR THE STORMWATER MANAGEMENT COMPUTATIONS. ALSO, THE PROPERTY IS ZONED RA-1 (FORMER R-5-A), THEREFORE, GREEN AREA REQUIREMENTS APPLY TO THIS PROJECT AND REQUIRES A MINIMUM GREEN AREA RATIO SCORE OF 0.40.

THE SITE IS LOCATED IN THE MS4 (SEPARATE SEWER SYSTEM AREA) AND IS WITHIN THE ANACOSTIA RIVER WATERSHED. HOWEVER, THE SITE IS LOCATED OUTSIDE OF THE ANACOSTIA WATERFRONT DEVELOPMENT ZONE (AWDZ). THERE WILL BE A DECREASE IN STORM RUNOFF WHEN THE PROJECT IS CONSTRUCTED AND ALL STORMWATER MANAGEMENT MEASURES IMPLEMENTED WHEN COMPARED TO CURRENT EXISTING CONDITIONS.

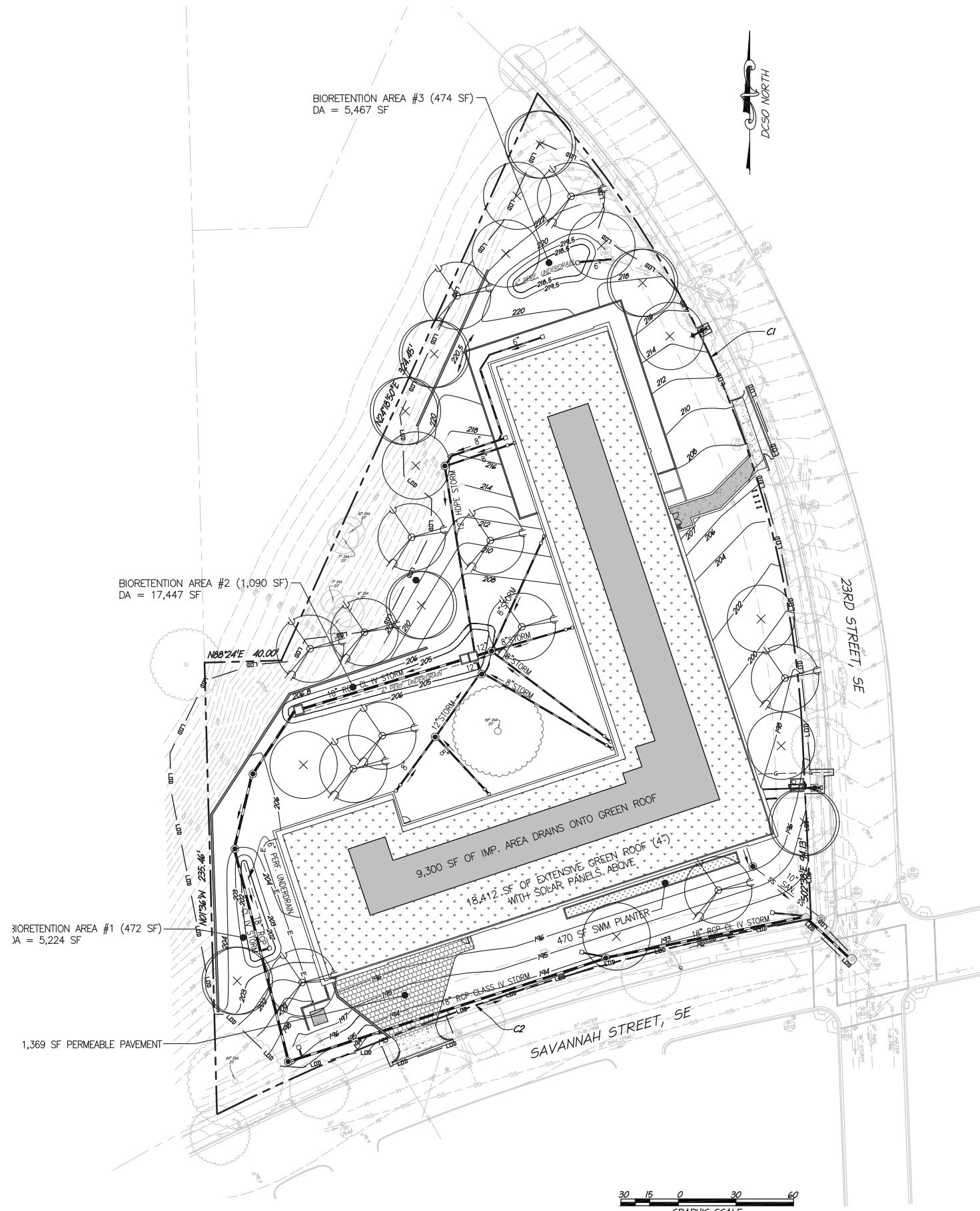
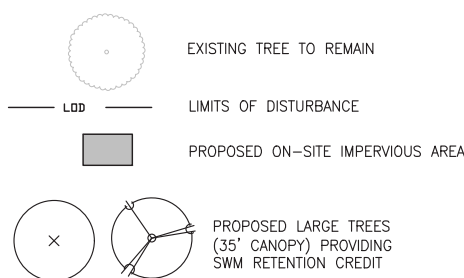
THE GENERAL RETENTION COMPLIANCE CALCULATOR WAS USED IN DOEE'S SWM DATABASE TO DEMONSTRATE THE REQUIRED AMOUNT OF STORMWATER RETENTION HAS BEEN PROVIDED. THE SITE'S STORMWATER RETENTION VOLUME (SWRV) IS BASED UPON 93,470 SF OF "MAJOR LAND DISTURBING ACTIVITY" WHICH UTILIZES A 1.2" REGULATORY RAIN EVENT. THIS RESULTS IN A SWRV OF 4,654 CF (35,328 GALLONS) THAT MUST BE PROVIDED FOR ON-SITE.

PROPOSED SWM CONTROLS INCLUDE A LARGE AMOUNT OF EXTENSIVE GREEN ROOF, THREE BIORETENTION AREAS, LARGE TREE PLANTINGS, PERMEABLE PAVEMENT TO TREAT VEHICULAR TRAFFIC AND A STORMWATER MANAGEMENT PLANTER ALONG THE SOUTH SIDE OF THE BUILDING.

NOTES

- SEE SHEET C-402 FOR PLANT LIST AND SPECIFIC BIORETENTION DETAILS, INCLUDING BIORETENTION MATERIAL SPECIFICATIONS AND BIORETENTION PLANT LISTS.
- DC WATER REQUIRES A MINIMUM 6-FOOT CLEARANCE FROM A WATER MAIN TO A TREE BODY, AND WILL NOT ALLOW ANY NEW TREES TO BE PLANTED ALONG THE WESTERN SIDE OF 23RD STREET RIGHT-OF-WAY DUE TO THE CLOSE PROXIMITY OF THE EXISTING 12" WATER MAIN.
- REFER TO LANDSCAPE DRAWINGS FOR ALL PROPOSED LANDSCAPING, GREEN AREA RATIO, ETC.

LEGEND



Stormwater Management Plan Compliance Data

Site Address	3301 23rd Street SE	Plan number	6008
Stormwater Management Plan?	Yes	Green Area Ratio?	Yes
Soil Erosion and Sediment Control?	Yes	Floodplain Review?	No
Type of Activity	Major Land Disturbing	AWDZ?	Non-AWDZ
Is the entire site in the CSS?	No		

Total Area (sf)	Site Area	PROW	Curve Numbers
Natural	0	0	<input type="checkbox"/> Additional Detention Provided
Compacted	60,738	60,363	Pre-development 70 2-year storm adjusted CN 66
Impervious	13,284	12,659	Pre-project 92 15-year storm adjusted CN 72
BMP	20,448	20,448	100-year storm adjusted CN 75
Total	94,470	93,470	

Requirements Summary (total is the sum of PROW and Parcel)	PROW (ft ³)	Parcel (ft ³)	Total (ft ³)	Total (Gallons)
SWRV	69	4,654	4,723	35,328
WQTV	0	0	0	0
On-site retention achieved	70	4,822	4,892	36,596
On-site treatment achieved	0	405	405	3,032
% of SWRV met on-site	102%	104%	103.59%	103.59%
SRC eligibility				1,268
Offv				0

Site Drainage Area Compliance Data

Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area	SWRV (cubic feet)	WQTV (cubic feet)	Volume retained (cubic feet)	Volume treated (cubic feet)	2-year storm adjusted Curve Number	15-year storm adjusted Curve Number	100-year storm adjusted Curve Number	SDA Minimum Compliance
6008-4	<input type="checkbox"/>	5,467		4,993		474		170		241		40	58	64	Yes
6008-3	<input type="checkbox"/>	11,950		11,650	300			320		160		72	73	73	Yes
6008-1	<input type="checkbox"/>	76,053		43,720	12,359	19,974	2,845	4,165		4,422	405	67	73	76	Yes

Site BMP Compliance Data

BMP ID number	Type	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
6008-1-1	Extensive green roof	27,716			9,304	18,412			3,730	3,304	100% of storage volume	3,304		
6008-1-2	Traditional bioretention - Standard	5,224		4,752		472			232	685	60% of storage volume	232		
6008-1-3	Traditional bioretention - Standard	17,447		16,357		1,090			726	1,576	60% of storage volume	726		
6008-1-4	Proprietary practice	3,480		635		2,845	2,845		405	699			405	
6008-1-5	Tree preservation										20 cubic feet per tree		20	
6008-1-6	Tree planting										10 cubic feet per tree		140	
6008-3-1	Tree planting										10 cubic feet per tree		160	
6008-4-1	Traditional bioretention - Standard	5,467		4,993		474			241	644	60% of storage volume	241		

PROW Drainage Area Compliance Data

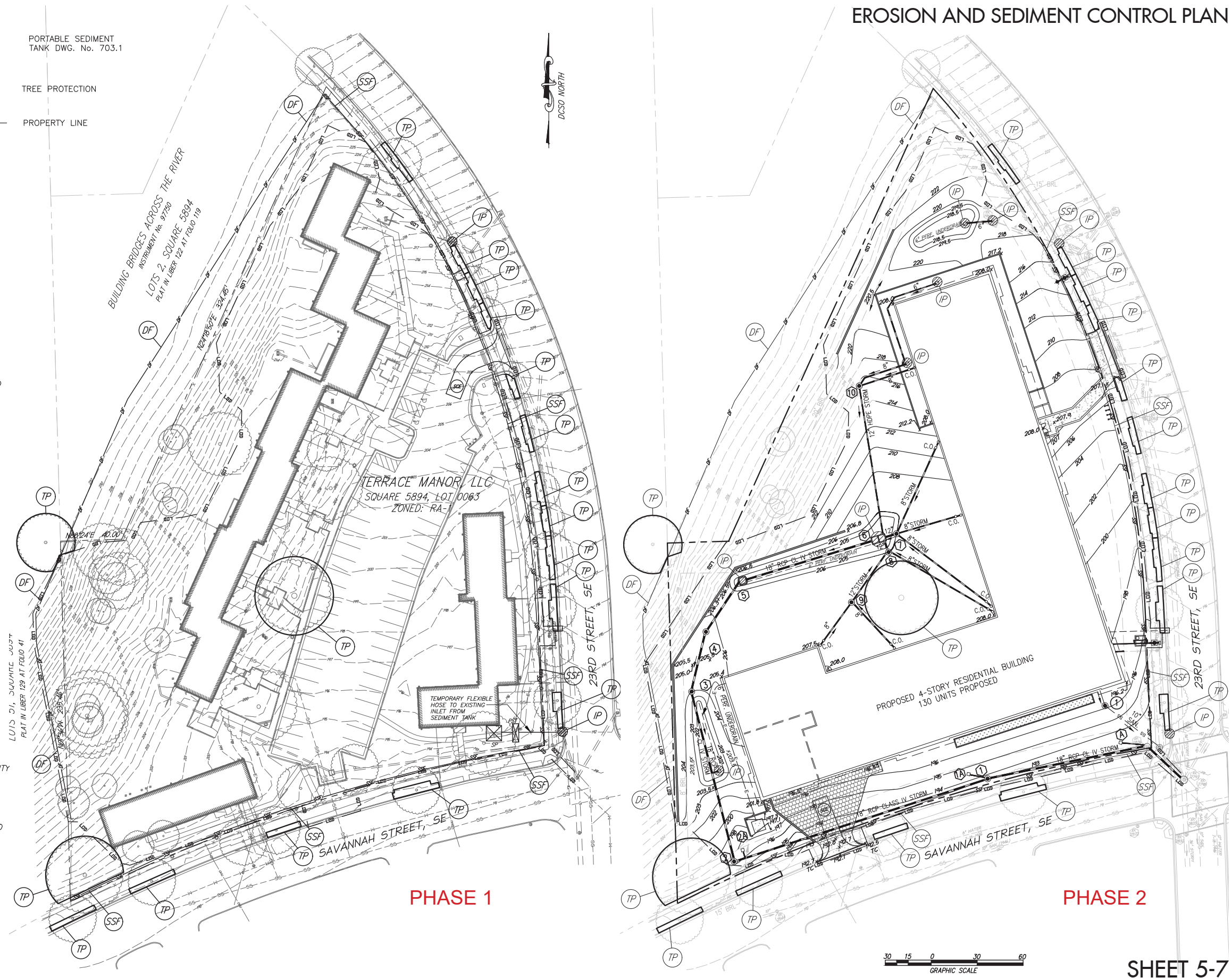
Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area	SWRV (cubic feet)	WQTV (cubic feet)	Volume retained (cubic feet)	Volume treated (cubic feet)
6008-2	<input checked="" type="checkbox"/>	1,000			375	625		69		70	

PROW BMP Compliance Data

BMP ID number	Type	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
6008-2-1	Tree preservation										20 cubic feet per tree		40	
6008-2-2	Tree planting										10 cubic feet per tree		30	

E&S LEGEND

	LDB	LIMITS OF DISTURBANCE
	SCE	STABILIZED CONSTRUCTION ENTRANCE DWG. No. 201.1
	SSF	SUPER SILT FENCE DWG. No. 302.1
	DF	DIVERSION FENCE DWG. No. 401.1
	IP	CURB INLET PROTECTION DWG. No. 307.3
	SP	SUMP PIT DWG. No. 702.1
	PST	PORTABLE SEDIMENT TANK DWG. No. 703.1
	TP	TREE PROTECTION
		PROPERTY LINE



NOTE: WHEN EXCAVATION IS PROPOSED IMMEDIATELY ADJACENT TO THE CRZ, ROOTS MUST FIRST BE PRUNED AT THE EDGE OF THE EXCAVATION WITH A TRENCHING MACHINE, VIBRATORY KNIFE OR VERTICAL SAW TO A DEPTH OF 18 INCHES.

EROSION & SEDIMENT CONTROL NARRATIVE

1. THE CONTRACTOR SHALL CALL THE DOEE INSPECTIONS & ENFORCEMENT BRANCH, WATERSHED PROTECTION DIVISION, AT (202) 535-2977 FOR A PRE-CONSTRUCTION MEETING 72 HOURS PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
2. INSTALL PERIMETER SEDIMENT CONTROL MEASURES, SILT FENCE, TEMPORARY CONSTRUCTION ENTRANCE AND INLET PROTECTIONS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. INSTALL SEDIMENT TANK AND SUMP PIT. RELOCATE AS NECESSARY TO EFFECTIVELY TREAT DIRTY WATER FROM LEAVING THE SITE DURING CONSTRUCTION.
3. DEMOLISH EXISTING BUILDING, PAVEMENT, STAIRS, SIDEWALK, RETAINING WALL, UTILITIES, UTILITY STRUCTURES AND OTHER ITEMS AS SHOWN ON THE DEMOLITION PLAN. ABANDON EXISTING DOMESTIC WATER LINE AT THE MAIN PER DC WATER STANDARDS.
4. STABILIZE DENUDED AREAS.
5. INSTALL ALL PROPOSED NEW UNDERGROUND UTILITIES AND UTILITY STRUCTURES.
6. CONSTRUCT NEW BUILDING, RETAINING WALLS, DRIVEWAY ENTRANCE, AND ALL OTHER NEW WORK SHOWN ON THE SITE PLAN. BIORETENTION AREAS SHALL BE PROTECTED VIA SILT FENCE UNTIL SITE IS FULLY STABILIZED AND FINAL INSPECTION PERFORMED BY DOEE SITE INSPECTOR JUST PRIOR TO BUILDING OCCUPANCY.
7. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES REQUIRES PRIOR APPROVAL FROM DOEE SITE INSPECTOR.

MAINTENANCE PROGRAM

ALL SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED DAILY BY THE SITE SUPERINTENDENT AND ANY DAMAGED FACILITY IS TO BE REPAIRED BY THE CLOSE OF THE WORKDAY. TRAPS AT STORM STRUCTURES ARE TO BE CLEANED AFTER EACH RAINFALL AND INLET PROTECTION MAY BE REMOVED ONLY AFTER UPSTREAM AREAS HAVE BEEN STABILIZED WITH A PERMANENT SURFACE AND DOEE INSPECTOR APPROVAL. PROVIDE PORTABLE SEDIMENT TANK AND SUMP PIT IF REQUIRED TO DEWATER THE SITE.

EROSION AND SEDIMENT CONTROL MEASURES

- THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS:
1. PROVIDE SUPER SILT FENCE IN LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. INSTALL SAFETY FENCE AS NEEDED ALONG THE PERIMETER OF THE LIMITS OF DISTURBANCE.
 2. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL EXISTING INLETS IN THE VICINITY OF THE PROPERTY THAT ARE TO REMAIN AS SHOWN ON THE SEDIMENT CONTROL PLAN.
 3. CONSTRUCTION ENTRANCE - A TEMPORARY, STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH CITY STANDARDS WITH A LENGTH OF AT LEAST 50 LINEAR FEET WILL BE PROVIDED AT THE LOCATION SHOWN ON THE SEDIMENT CONTROL PLAN. THE ENTRANCE SHALL BE MAINTAINED IN GOOD REPAIR AND SHALL PROVIDED REMOVAL OF DEBRIS FROM VEHICLES PRIOR TO LEAVING THE CONSTRUCTION SITE. WATER FOR THE WASH RACK TO BE PROVIDED BY A WATER TANK TRUCK IF PUBLIC WATER IS NOT AVAILABLE.
 4. DUST CONTROL - DUST CONTROL SHALL BE PROVIDED AS NECESSARY DURING DEMOLITION OPERATIONS TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY PRODUCE HEALTH HAZARDS OR TRAFFIC SAFETY PROBLEMS.
 5. IF AT ANY TIME DURING SITE DEMOLITION THERE IS ANY EXPOSED SOIL, IT SHALL BE STABILIZED WITH TEMPORARY SEEDING. SEEDING MIXTURES AND SURFACE TREATMENT SHALL BE BASED UPON RECOMMENDATIONS LISTED ON SHEET C-801 AND SHALL BE VERIFIED WITH THE CITY INSPECTOR BASED UPON CONSTRUCTION DATES.

UTILITY INSTALLATION NOTES

- PLACE EXCAVATED MATERIALS UPSLOPE OF THE TRENCH.
- FILTER WATER PUMPED FROM EXCAVATIONS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
- PROVIDE STABILIZATION (INTERIM OR PERMANENT) AFTER THE TRENCH IS REFILLED.

PHASE 1

PHASE 2



CONSTRUCTION SPECIFICATIONS

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

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 702.1

CONSTRUCTION SPECIFICATIONS

- 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 DO NOT NEED TO BE SET IN CONCRETE.
- 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.
- SECURELY FASTEN GEOTEXTILE TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID-SECTION.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ADJOIN EACH OTHER, FOLD AND OVERLAP BY 6 INCHES.
- GEOTEXTILE MUST MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F (FROM TABLE 3.2-2-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
FILTRATION EFFICIENCY	75% (MIN.)	ASTM D-5141

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 302.1

CONSTRUCTION SPECIFICATIONS

- 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 (40 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.
- 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 2:1 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 CONNECT, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN THE SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE.
- 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.
- 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 SHEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 201.1

CONSTRUCTION SPECIFICATIONS

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

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 703.1

CONSTRUCTION SPECIFICATIONS

- 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.
- 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.
- 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).
- 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 AGAINST THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE HEIGHT.
- PLACE THE ASSEMBLY SO THAT THE END SPACERS ARE 1 FOOT BEYOND BOTH ENDS OF THE THROAT OPENING.
- 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.
- THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE GEOTEXTILE FABRIC AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
- ASSURE THAT STORM FLOWS DO NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.
- IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATE SUCH AS A FILTER SOCK.

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

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 307.3

CONSTRUCTION SPECIFICATIONS

- 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.
- 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
FILTRATION EFFICIENCY	75% (MIN.)	ASTM D-5141

- WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, OVERLAP, FOLD, AND STAPLE THEM TO PREVENT SEDIMENT BYPASS.
- 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.

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 301.1

TREE PROTECTION NOTES:

- ALL EXISTING TREES TO BE PROTECTED WITHIN A WORKING ZONE SHALL BE PROTECTED BY CONSTRUCTION OF A TREE PROTECTION FENCE (TPF) AND PROTECTIVE SOIL STABILIZATION MATTING (SSM) TO PREVENT ROOT DAMAGE AND TO PREVENT SOIL COMPACTION. THE TPF SHALL BE CONSTRUCTED TO PROTECT THE TRUNK AND ROOTS OF THE TREE. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT.

GENERAL NOTES:

- USE TREE PROTECTION FENCE - BLANKING END.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 808.0

TREE PROTECTION NOTES:

- ALL EXISTING TREES TO BE PROTECTED WITHIN A WORKING ZONE SHALL BE PROTECTED BY CONSTRUCTION OF A TREE PROTECTION FENCE (TPF) AND PROTECTIVE SOIL STABILIZATION MATTING (SSM) TO PREVENT ROOT DAMAGE AND TO PREVENT SOIL COMPACTION. THE TPF SHALL BE CONSTRUCTED TO PROTECT THE TRUNK AND ROOTS OF THE TREE. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT. THE TPF SHALL BE CONSTRUCTED TO PREVENT THE TREE FROM BEING DAMAGED BY CONSTRUCTION EQUIPMENT.

GENERAL NOTES:

- USE TREE PROTECTION FENCE - BLANKING END.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 808.0

CONSTRUCTION SPECIFICATIONS

- USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2-3/8 INCH MAXIMUM OPENING).
- USE 2-3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
- FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
- SECURE 1 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
- EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
- WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 8 INCHES AND FOLD WITH SEAM FACING DOWNWARD.
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, RAINFALL FENCE.

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 401.1