LEGEND

EXISTING	DESCRIPTION	PROPOSED
351	INDEX CONTOUR	350
352	INTERMEDIATE CONTOUR	352
EX. E.P.	EDGE OF PAVEMENT	PROP. E.P.
EX. C & G	CURB AND GUTTER	CG-6
	TRANSITION FROM CG-6R TO CG-6	CG-6R CG-6
	PROPOSED HEADER CURB	
	PROPERTY LINE	
	DEPARTING PROPERTY LINE	
	LOT LINE	
	RIGHT-OF-WAY	
	CENTERLINE	
	FLOOD PLAIN	
	CLEARING AND GRADING	
	TREE LINE	
	FLOW LINE OF SWALE	
	STREAM	
	OVERLAND RELIEF PATHWAY	
	FENCE LINE	
EX 8" W/M	EASEMENT	
8"	WATER LINE	8" DIP W/M
EX. W/V	WATER VALVE	W
W	REDUCER	W
EX 8" SAN	SANITARY SEWER	8" SAN
EX 18" RCP	STORM SEWER	18" RCP
	CABLE TV	CATV
	ELECTRIC SERVICE	
	TELEPHONE SERVICE	
	GAS LINE	
+ 25.32	SPOT ELEVATION	25.32
ø	UTILITY POLE	ø
	SIGN	
EX A EX A	SANITARY SEWER IDENTIFIER	A
EX 2 EX 2	STORM DRAIN IDENTIFIER	2
W	EASEMENT IDENTIFIER	W
	WATER METER	
	FIRE HYDRANT	
	PARKING INDICATOR INDICATES THE NUMBER OF TYPICAL PARKING SPACES	25
	STREET LIGHT	
	VEHICLES PER DAY (TRAFFIC COUNT)	255 VPD
	TEST PIT LOCATION RECOMMENDED/REQUIRED	TP
	CRITICAL SLOPE SLOPES TO BE STABILIZED PURSUANT TO VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK	
	HANDICAP RAMP (CG-12) DENOTES LOCATION OF STD 1DOT CG-12 AND/OR JURISDICTIONAL STANDARD RAMP CONSTRUCTION	
	DENOTES CLEAR SIGHT TRIANGLE	
PINE 15" OAK	TREE	
	BENCHMARK	BM #1 TRV #1 ELEV=101.82
	ASPHALT TRAIL	
	CONCRETE SIDEWALK	
	END WALLS	
	END SECTIONS	
	STOP SIGN	
	STREET SIGN	
OHE	OVERHEAD ELECTRIC	OHE
OHT	OVERHEAD TELEPHONE	OHT
VAN	HANDICAP PARKING SPACE (VAN)	VAN
	RIP RAP	
	EX. WETLANDS	

ABBREVIATIONS

A	AREA OF ARC
AASHTO	AMERICAN ASSOCIATION OF STATE HWY & TRANSP OFFICIALS
AC	ACRE
ADJ	ADJACENT
AGGR	AGGREGATE
AHD	AHEAD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
B	BREADTH
BC	BACK OF CURB
BF	BASEMENT FLOOR
BLDG	BUILDING
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES (WATER QUALITY)
BOV	BLOW OFF VALVE
BRG	BEARING
BRL	BUILDING RESTRICTION LINE
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BW	BOTTOM OF WALL
c,e	CENTER CORRECTION ON VERTICAL CURVE
C	RUNOFF COEFFICIENT
CATV	CABLE TELEVISION
C&G	CURB AND GUTTER
CB	CATCH BASIN
CBR	CALIFORNIA BEARING RATIO
CC	CENTER TO CENTER
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CG(R)	CURB AND GUTTER (REVERSE SLOPE)
CH	CHORD
CHBRG	CHORD BEARING
CIP	CAST IRON PIPE
CL	CENTERLINE OR CLASS
℄	CENTERLINE
C/L	CENTERLINE
CLR	CLEAR
CM	CUBIC METERS
CMP	CORRUGATED METAL PIPE
CMS	CUBIC METERS PER SECOND
CN	RUNOFF CURVE NUMBER
CONT	CONTINUOUS
CO	CLEAN OUT
CONC	CONCRETE
CS	CURB STOP
CT	COURT
CTR	CENTERLINE
CY	CUBIC YARD
D	DEPTH
DA	DRAINAGE AREA
DB	DEED BOOK
DC	DISTRICT OF COLUMBIA
DEQ	VA. DEPARTMENT OF ENVIRONMENTAL QUALITY
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DI	DROP INLET
DIST	DISTANCE
DL	DOMESTIC LINE
DM	DROP MANHOLE
DOM	DOMESTIC
DR	DRIVE
DRN	DRAINAGE AREA
DS	DOWN SPOUT
DU	DWELLING UNITS
DWG	DRAWING
D/W	DRIVEWAY
Δ	DELTA
E	RATE OF SUPER ELEVATION
EA	EACH
EBL	EAST BOUND LANE
EC	EROSION CONTROL
EG	EDGE OF GUTTER
EGL	ENERGY GRADIENT LINE
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATION
ENGR	ENGINEER
ENT	ENTRANCE
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
ES	END SECTION
ESMT	EASEMENT
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
ETRL	EXISTING TO BE RELOCATED
ETRP	EXISTING TO BE REPLACED
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EW	END WALL
EX	EXISTING
EQC	ENVIRONMENTAL QUALITY CORRIDOR
F	FIRE LINE
FAR	FLOOR AREA RATIO
FC	FACE OF CURB
FCPA	FAIRFAX COUNTY PARK AUTHORITY
FCWA	FAIRFAX COUNTY WATER AUTHORITY
FD	FLOOR DRAIN
FF	FIRST FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FND	FOUNDATION
FOY	FOYER
FP	FLOOD PLAIN
FPS	FEET PER SECOND
FS	FIRE SERVICE OR FACTOR OF SAFETY
FT	FOOT / FEET
G	GAS
GAR	GARAGE
GFA	GROSS FLOOR AREA
GR	GUARD RAIL OR GRATE INLET
H	HEAD
HC	HANDICAP
HB	HORIZONTAL BEND
HGL	HYDRAULIC GRADE LINE
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HAND RAIL
HT	HEIGHT
HW	HEADWATER
I	RAINFALL INTENSITY
ID	INSIDE DIAMETER OR IDENTIFICATION
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
IP	IRON PIPE
IPF	IRON PIPE FOUND
IPS	IRON PIPE SET
JB	JUNCTION BOX
JNT	JOINT
K	SIGHT DISTANCE COEFFICIENT
Ke	CULVERT ENTRANCE LOSS COEFFICIENT
L	LENGTH
LAT	LATERAL
LCG	LIMITS OF CLEARING & GRADING
LF	LINEAR FEET
LL	LOWER LEVEL
LOS	LINE OF SIGHT
LP	LOW POINT
LS	LOADING SPACE
LT	LEFT
M	MONUMENT FOUND
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MS	MEDIAN STRIP
MSL	MEAN SEA LEVEL
NA OR N/A	NOT APPLICABLE
NBL	NORTH BOUND LANE
N/F	NOW OR FORMERLY
NFA	NET FLOOR AREA
NO. OR #	NUMBER
OC	ON CENTER
OBJ	OBJECT
OD	OUTSIDE DIAMETER
OH	OVERHANG
O/H	OVERHEAD
OHC	OVERHEAD CABLE
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
P	PERIMETER
P&P	PLAN AND PROFILE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCTC	POINT OF CURVATURE TOP OF CURB
PCEP	POINT OF CURVE EDGE OF PAVEMENT
PFM	PUBLIC FACILITIES MANUAL
PG	PAGE
PGL	POINT OF GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
℄	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENT
Q (cfs)	AMOUNT OF RUNOFF (FLOW RATE)
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RDCR	REDUCER
RD	ROAD OR ROOF DRAIN
REINF	REINFORCED
REQD	REQUIRED
RET	RETAINING
REV	REVISION
RGP	ROUGH GRADING PLAN
RMA	RESOURCE MANAGEMENT AREA
ROM	REMOTE OUTSIDE MONITOR
RPA	RESOURCE PROTECTION AREA
RR	RAILROAD
RT	RIGHT
RTE	ROUTE
R/W	RIGHT OF WAY
S	SPEED OR SLOPE
SAN	SANITARY
SBL	SOUTH BOUND LANE
SCH	SCHEDULE
SD	SIGHT DISTANCE
SEC	SECTION
SECT	SECTION
SEW	SEWER
SF	SQUARE FEET
SH	SHOULDER
SP	SPACE OR SITE PLAN
SPEC	SPECIFICATIONS
STA	STATION
STD	STANDARD
STK	STACK
STM	STORM
STR	STRUCTURE
SVC	SERVICE
S/W	SIDEWALK
SWM	STORM WATER MANAGEMENT
Sx	CROSS SLOPE
SY	SQUARE YARD
T	TANGENT
TB	TOP OF BANK OR TEST BORING
TBR	TO BE REMOVED
TC	TOP OF CURB
Tc	TIME OF CONCENTRATION
TEL	TELEPHONE
TEMP	TEMPORARY
TH	TEST HOLE
TP	TEST PIT OR TREE PROTECTION
TW	TOP OF WALL OR TAILWATER
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UGC	UNDERGROUND CABLE
UD	UNDERDRAIN
UL	UPPER LEVEL
UP	UTILITY POLE
USGS	US GEOLOGICAL SURVEY
V OR VOL	VOLUME
V OR VEL	VELOCITY
VA	VIRGINIA
VAN	HANDICAPPED VAN PARKING SPACE
VB	VERTICAL BEND
VC	VERTICAL CURVE
VDOT	VA DEPT OF TRANSPORTATION
VF	VERTICAL FOOT
W	WEIGHT OR WIDTH
WBL	WEST BOUND LANE
WL	WATER LINE
WM	WATER METER
W/M OR WM	WATER MAIN
WQIA	WATER QUALITY IMPACT ASSESSMENT
WV	WATER VALVE
XING	CROSSING
XF	TRANSFORMER
YI	YARD INLET
YR	YEAR
Z	SIDE SLOPES

NOTES:
1. THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.

DC WATER NOTES

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) DEPARTMENT OF WATER SERVICES AT 202-612-3400 OR 3460 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF WATER UTILITY CONSTRUCTION.
   C) DEPARTMENT OF SEWER SERVICES AT 202-264-3824 OR 3829 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. ABANDONMENT: 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 PERMIT OPERATIONS 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 ALL DEPOSITS 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 UNDERGROUND UTILITIES 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 BACKWATER 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.

DC GENERAL NOTES

1. CONTACT "MISS UTILITY" 1-800-257-7777 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE EXCAVATOR MUST NOTIFY ALL PUE COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
2. SEWER AND WATER B.M. TO BE USED FOR CONSTRUCTION.
3. ALL PROPOSED WATER AND SEWER WORK TO BE PERFORMED UNDER THE INSPECTION OF THE DC WATER.
4. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE DC WATER.
5. USE MANHOLE ENTRY SEALS WHERE REQUIRED.
6. THIS PLAN DOES NOT IMPLY THAT ALL UNDERGROUND UTILITIES AND THOSE SHOWN ARE NECESSARILY APPROXIMATE. THE CONTRACTOR SHALL TAKE ALL AND WHATEVER STEPS NECESSARY TO ACCURATELY LOCATE AND PROTECT ALL EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ENSURE THAT THE PLANS CAN BE EXECUTED. IN THE EVENT OF CONFLICT, THE CONTRACTOR SHALL HAND DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH WELL IN ADVANCE OF CONSTRUCTION.
7. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE COMPLETED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, THE CONFORMATION AND CONDITIONS OF THE EXISTING GROUND SURFACE AND THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUALITY, AND QUANTITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED. ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BROUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.
8. THE PROPOSED STORMWATER MANAGEMENT SYSTEMS SHALL BE PRIVATELY OWNED AND MAINTAINED INCLUDING ALL PIPING ON PRIVATE PROPERTY.
9. CONTRACTOR SHALL COORDINATE UTILITY POLE AND UNDERGROUND CONDUIT RELOCATIONS WITH PEPCO, WASHINGTON GAS, VERIZON AND COMCAST.
10. SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR. CALL (202) 535-2240 FOR APPOINTMENT.
11. ALL WATER MAINS TO BE DUCTILE IRON PIPE,, MEETING AWWA C11 REQUIREMENTS. PROVIDE DUCTILE IRON RETAINER GLANDS FOR JOINT RESTRAINT ON ALL WATER MAIN, PIPE AND FITTINGS, INCLUDING VALVES AND FIRE HYDRANTS. RETAINER GLANDS SHALL NOT BE USED ON EXISTING CAST IRON PIPE.
12. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT APPROVED ARCHITECTURAL/MEP PLAN AND COORDINATE SAME WITH THIS SITE PLAN PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
13. PERMANENT WATER CONNECTIONS MUST BE INSTALLED FOR ALL CONSTRUCTION PURPOSES.
14. ALL WATER DISTRIBUTION AND SANITARY SEWER MATERIALS, CONSTRUCTION AND APPURTENANCES SHALL CONFORM TO THE LATEST DC WATER AND DDOT PROJECT DESIGN MANUAL, STANDARD, SPECIFICATIONS AND DETAILS.
15. ALL PUBLIC UTILITIES AND ROAD CONSTRUCTION SHALL CONFORM TO THE LATEST DDOT SPECIFICATIONS AND DETAILS.
16. DC WATER AND PLUMBING INSPECTORS MAY REQUIRE WATERLINE CONNECTIONS TO BE "CUT-IN" AT CERTAIN LOCATIONS DUE TO SIZE AND AGE OF EXISTING MAINS. CONTRACTOR SHOULD BE AWARE OF THIS AND CONDUCT TEST PITS AND INSPECTIONS OF EXISTING POINTS, WELL BEFORE INSTALLATION.
17. THE TEST PIT LOCATIONS SHOWN ARE PRELIMINARY AND SUBJECT TO REVISIONS. ADDITIONAL TEST PITS MAY BE REQUIRED, FOLLOWING "UTILITY MARK-OUT" PROCEDURES (i.e.: TEST PITS FOR GAS, ELECTRIC, CABLE, TELEPHONE, ETC.) AS ORDERED BY THE CONTRACTOR VA MISS UTILITY. ADDITIONAL TEST PITS LOCATIONS MAY BE REVISED PRIOR TO FINAL JURISDICTIONAL APPROVAL.
18. THE TOPOGRAPHIC SURVEY WAS PREPARED BY BCG ON 2/1/11 USING A VERTICAL DATUM OF DC PUBLIC WORKS AND A DC NORTH HORIZONTAL PLANE.
19. CIVIL PLANS HAVE BEEN PREPARED BASED ON ARCHITECTURAL PLANS AVAILABLE AT THE TIME OF DESIGN DEVELOPMENT PLAN DISTRIBUTION AND ARE SUBJECT TO CHANGE PENDING RECEIPT OF FINAL ARCHITECTURAL PLANS.

STORM SEWER TABULATION

EX 1264	RIM=19.92 CENTER INV=6.28
EX 1267	RIM=19.77 NO ACCESS IN ROAD
EX 1268	RIM=19.62 CENTER INV=6.53
EX 1269	RIM=19.27 NO ACCESS IN ROAD
EX 1636	RIM=15.37 INV OUT=12.25 (15" PIPE TO POSSIBLE UNDERGROUND JUNCTION)
EX 1618	RIM=14.81 NO ACCESS IN ROAD
EX 1551	RIM=14.85 CENTER INV=5.63 NO PIPES VISIBLE HAS WATER
EX 1840	RIM=15.59 CENTER INV=0.54
EX 1794	RIM=15.79 CENTER INV=--2.91 NO PIPES VISIBLE HAS WATER
EX 1167	RIM=20.06 INV IN=12.08 (18" PIPE FRM UNK) INV OUT=12.04 (18" PIPE TO EX1264)
EX 1551	RIM=14.85 CENTER INV=--3.85 NO PIPES VISIBLE HAS WATER
EX 880	RIM=16.01 INV OUT=10.21 (18" PIPE TO EX1840)
EX 2225	RIM=17.08 NO ACCESS IN ROAD
EX 1351	RIM=16.77 CENTER INV=12.53
EX 1352	RIM=15.93 CENTER INV=11.93
EX 1353	RIM=15.94 CENTER INV=12.64
EX 1759	RIM=16.23 CENTER INV=11.95
EX 1761	RIM=16.64 CENTER INV=13.03
EX 1970	RIM=17.03 CENTER INV=13.35
EX 2140	RIM=16.55 CENTER INV=14.32
EX 2096	RIM=16.00 CENTER INV=11.80

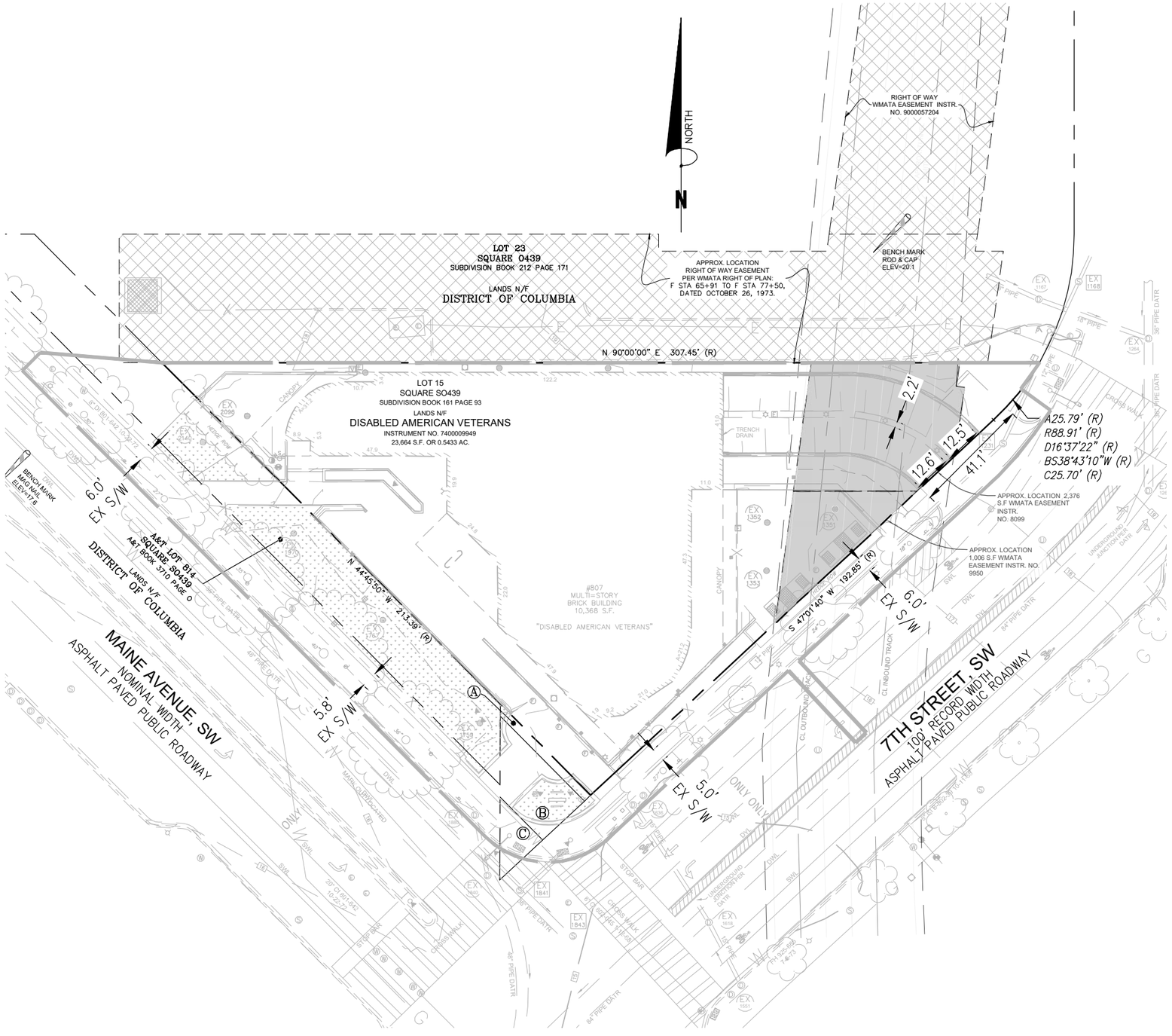
SANITARY SEWER TABULATION

EX 1168	RIM=20.11 INV IN=5.91 (INV IN=5.86 (INV OUT=5.86 (12" PIPE TO EX1231)
EX 1231	RIM=19.21 INV IN=4.51 (12" PIPE FRM EX1168) INV OUT=4.48 (12" PIPE TO EX1841)
EX 1841	RIM=15.47 CENTER INV=--6.88
EX 1843	RIM=15.40 NO INVERT, IN ROAD AND 3.5' DIA LID
EX 2223	RIM=16.78 NO ACCESS SEALED LID

807 MAINE AVENUE SW | Washington DC | **MARCH, 2022**

Bowman

PUD Submission | **GENERAL NOTES, ABBREVIATIONS & LEGEND**



EXISTING CONDITIONS:

THE PROJECT SITE CONSISTS OF LOT 15 WITHIN SQUARE 0439S, TOTALING A RECORDED SQUARE FOOTAGE OF 23,664 S.F. OR 0.5433 AC. LOT 23 BOUNDS THE PROPERTY TO THE NORTH, THERE ARE FOUR A&T LOTS LOCATED WEST OF THE PROPERTY – 811, 812, 813 & 814 – IN SQUARE 0439S. THERE IS AN EXISTING MULTISTORY BUILDING WITH AN UNDERGROUND PARKING GARAGE ON SITE. THE SITE IS BOUND BY 7TH STREET SE AND MAINE AVENUE SE.

LEGEND

BC	BACK OF CURB
BSW	BRICK SIDEWALK
BLD HT	BUILDING HEIGHT
GC&CG	GRANITE CURB AND CONCRETE GUTTER
CC	CONCRETE CURB
CONC	CONCRETE
CSW	CONCRETE SIDEWALK
DATR	DATA ACCORDING TO RECORD
DWL	DASHED WHITE LINE
DYL	DOUBLE YELLOW LINE
FF	FINISH FLOOR
FL	FLOW LINE
GF	GARAGE FLOOR ELEVATION
IRF	IRON ROD FOUND
LSA	LANDSCAPE AREA
NF	NORTH FACE
(R)	RECORD BEARING & DISTANCE
UNK	UNKNOWN
SWL	SOLID WHITE LINE
TRANS	TRANSFORMER
WRF	WROUGHT IRON FENCE
	AREA LIGHT
	BOLLARD
	CLEAN OUT
	ELECTRIC BOX
	ELECTRIC MANHOLE
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	FLAG POLE
	GAS VALVE
	IRRIGATION VALVE
	PARKING METER
	SANITARY SEWER MANHOLE
	SIGN
	STORM MANHOLE
	STORM INLET (SQUARE)
	STORM INLET (ROUND)
	TRAFFIC LIGHT
	UNKNOWN MANHOLE
	UTILITY MANHOLE
	UTILITY POLE
UPLP	UTILITY POLE W/LIGHT
	VENT PIPE
	VAULT
	WATER MANHOLE
	WATER METER
	WATER SHUTOFF VALVE
	WATER VALVE
18"	TREE W/SIZE
EX 1234	STORM ID NUMBER
EX 1234	SANITARY ID NUMBER
	APPRX. LOC. UNDERGROUND STORM
	APPRX. LOC. UNDERGROUND SANITARY
	APPRX. LOC. UNDERGROUND GAS
	APPRX. LOC. UNDERGROUND WATER
	APPRX. LOC. UNDERGROUND TELECOM
	APPRX. LOC. UNDERGROUND ELECTRIC
	FENCE LINE

Ⓐ A&T LOT 812
SQUARE SO439
A&T BOOK 3615 PAGE H

LANDS N/F
DISTRICT OF COLUMBIA

Ⓑ A&T LOT 811
SQUARE SO439
A&T BOOK 3615 PAGE H

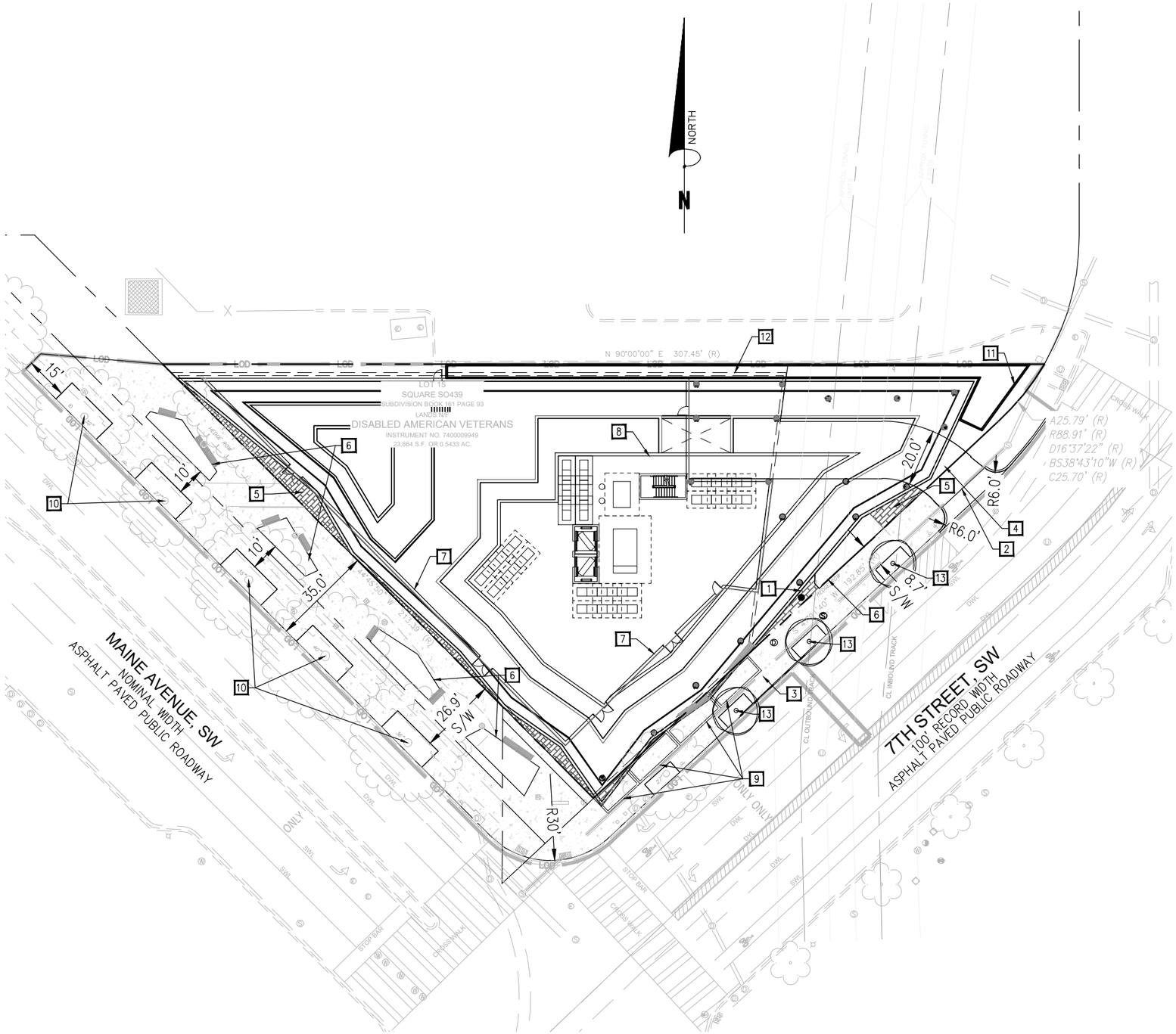
LANDS N/F
UNITED STATES
OF AMERICA

Ⓒ A&T LOT 813
SQUARE SO439
A&T BOOK 3615 PAGE H

LANDS N/F
DISTRICT OF COLUMBIA

40 0 20 40

1 inch = 40 ft.

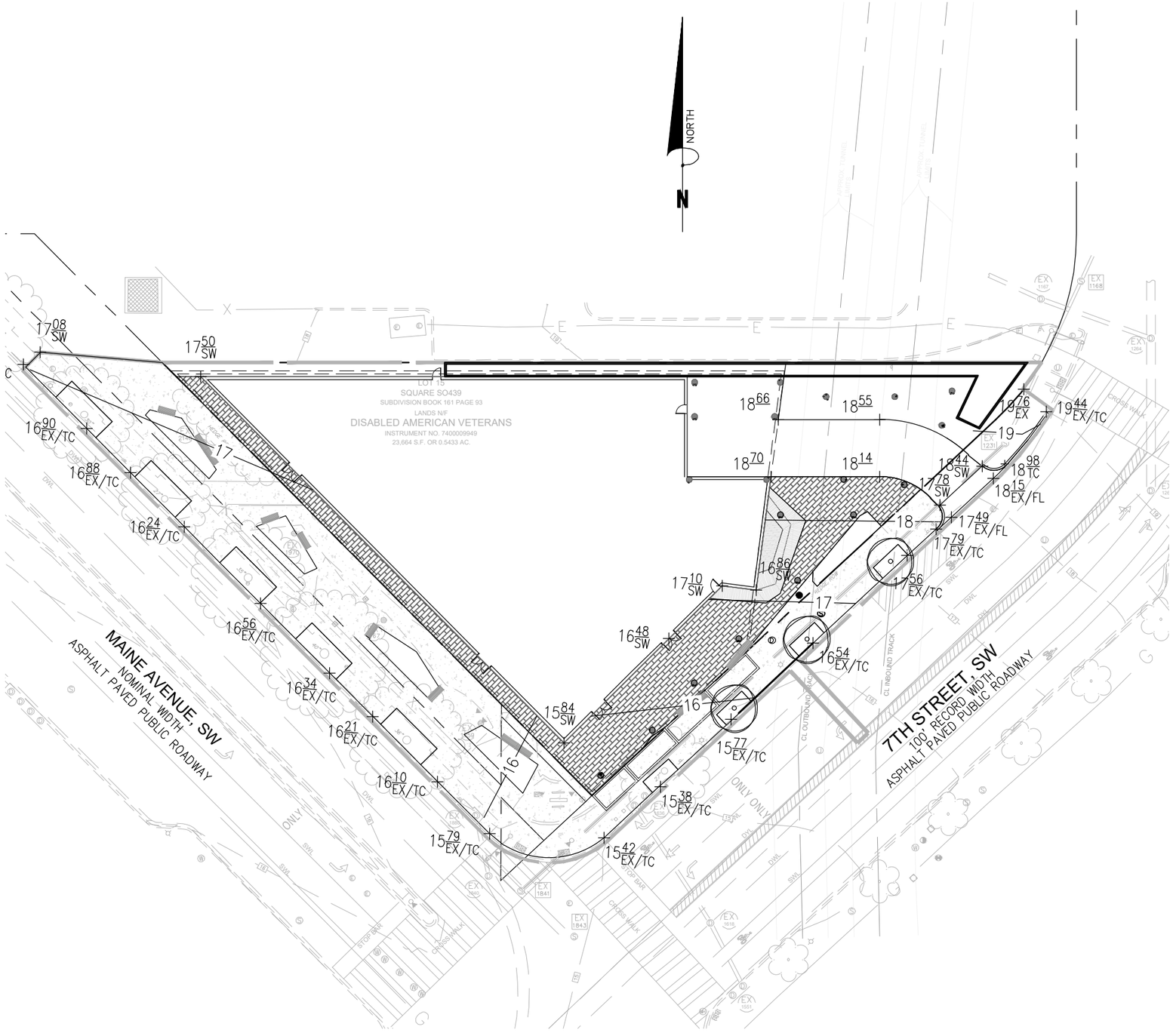


SITE KEYNOTES

1. NEW BUILDING. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NEW 20' DRIVEWAY ENTRANCE.
3. NEW CONCRETE SIDEWALK.
4. NEW RAMP DOWN TO PARKING GARAGE.
5. PROPOSED PAVERS. REFER TO LA PLANS FOR DETAILS.
6. PROPOSED LANDSCAPING.
7. LIMITS OF NEW GROUND LEVEL PLAZA.
8. NEW ROOFTOP PENTHOUSE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
9. PROPOSED UNDERGROUND TRANSFORMERS.
10. EXISTING TREE TO REMAIN.
11. PROPOSED BIORETENTION.
12. LIMITS OF UNDERGROUND GARAGE
13. PROPOSED TREE.

40 0 20 40

1 inch = 40 ft.

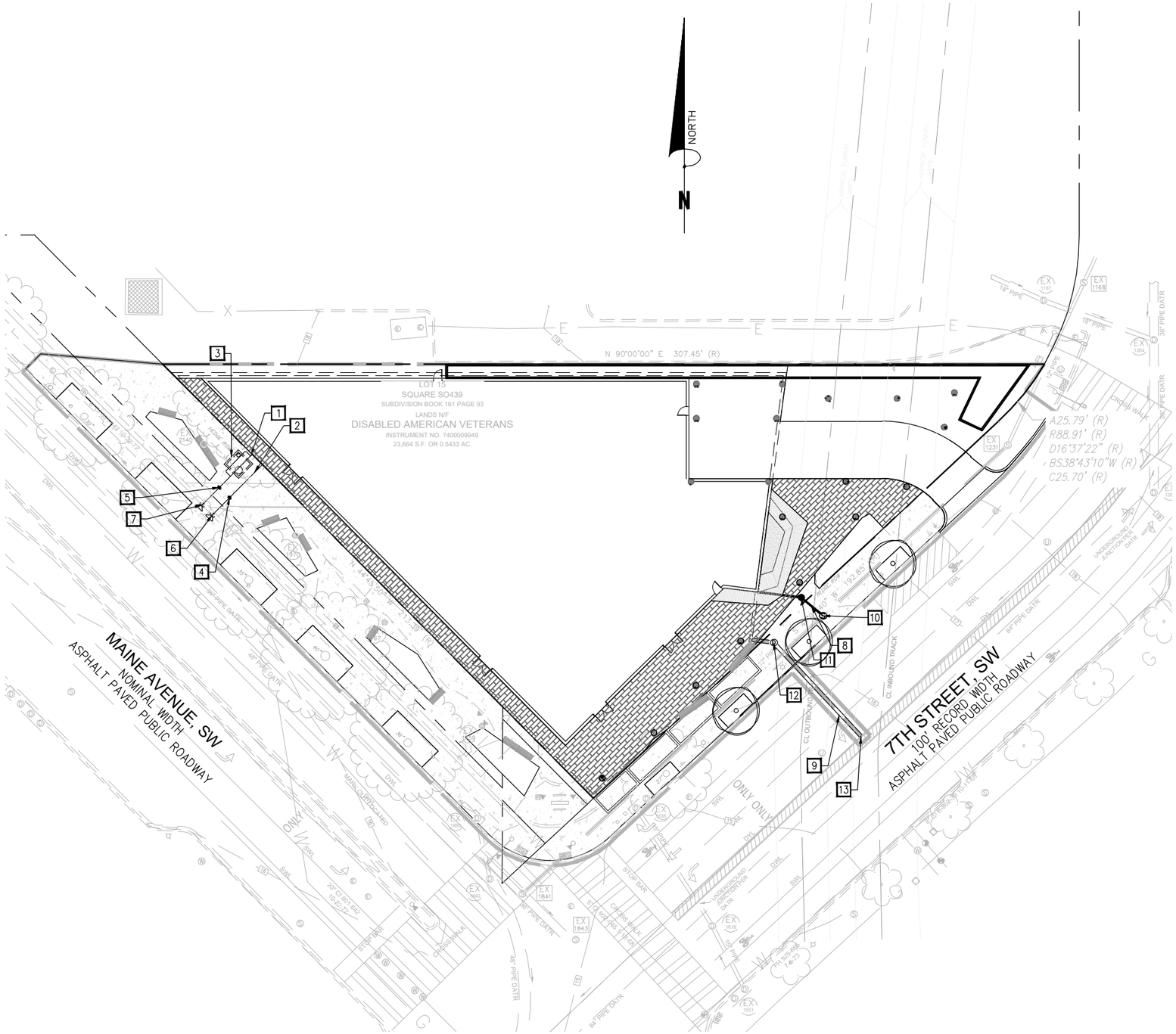


SPOT SHOT LEGEND:

XX $\frac{XX}{FF}$ ×	FINISHED FLOOR SPOT
XX $\frac{XX}{SW}$ ×	SIDEWALK SPOT
XX $\frac{XX}{TC}$ ×	TOP OF CURB SPOT
XX $\frac{XX}{BC}$ ×	BOTTOM OF CURB SPOT
XX $\frac{XX}{TW}$ ×	TOP OF WALL SPOT
XX $\frac{XX}{BW}$ ×	BOTTOM OF WALL SPOT
XX $\frac{XX}{TS}$ ×	TOP OF STEPS SPOT
XX $\frac{XX}{BS}$ ×	BOTTOM OF STEPS SPOT
XX $\frac{XX}{EX\ /TC}$ ×	EXISTING TOP OF CURB SPOT

40 0 20 40

1 inch = 40 ft.



UTILITY KEYNOTES

1. NEW 4" DIP DOMESTIC WATER SERVICE.
2. NEW 6" DIP FIRE SERVICE.
3. NEW 4" WATER METER.
4. NEW 6" WATER VALVE.
5. NEW 4" WATER VALVE
6. NEW 8" X 6" TEE WITH THRUST BLOCK.
7. NEW 8" X 4" TEE WITH THRUST BLOCK.
8. NEW 8" PVC SANITARY LATERAL.
9. NEW 15" RCP STORM LINE.
10. NEW SANITARY DOGHOUSE MANHOLE.
11. NEW SANITARY CLEANOUT
12. NEW STORM SEWER MANHOLE
13. TAP INTO SIDE OF 84" W/ZEE STRAP.

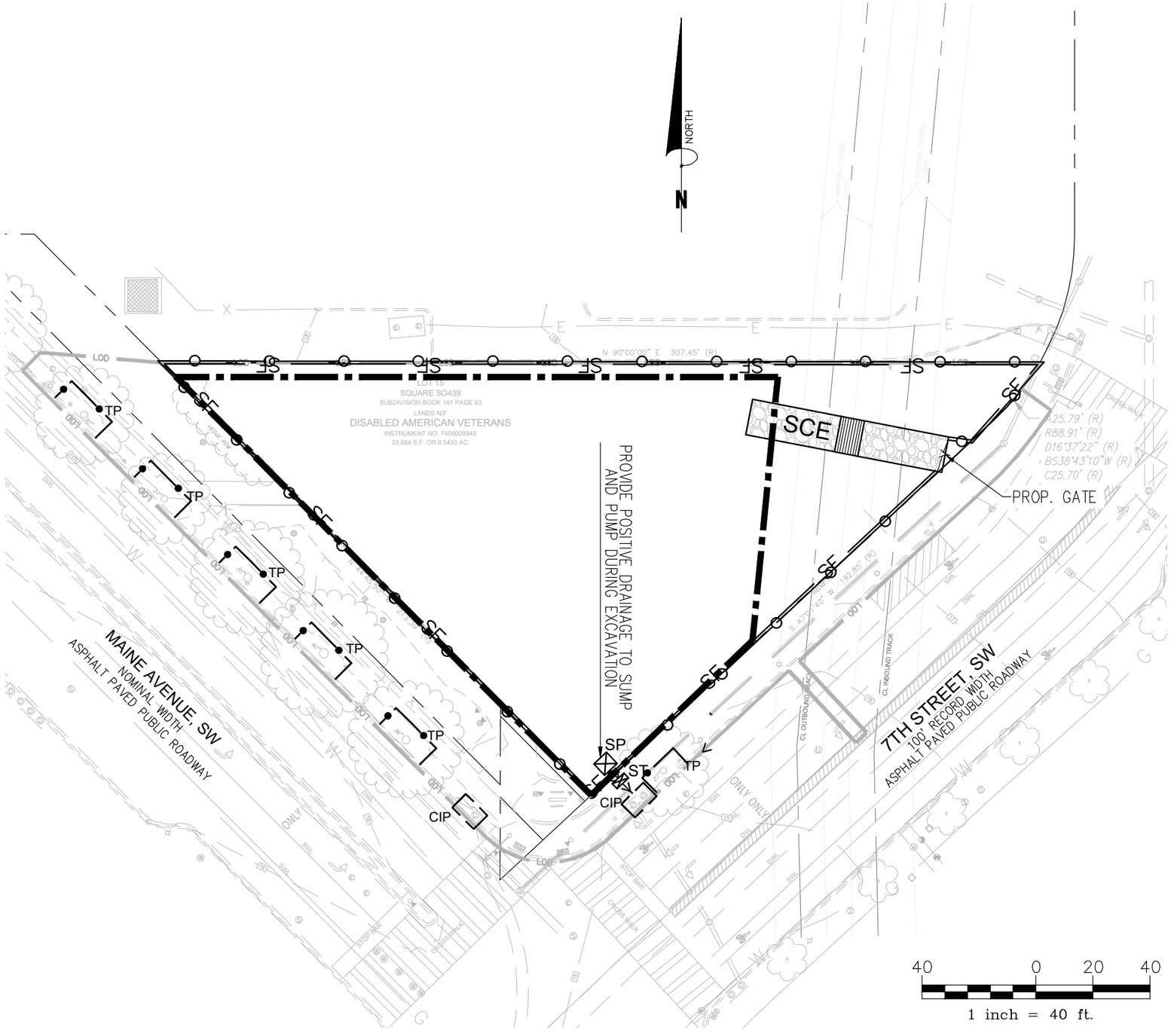
WATER AND SEWER DEMAND

WATER:
199 UNITS X 170 GPD/UNIT = 33,830 GPD

SEWER:
33,830 GPD = 0.052 CFS

STORM WATER:
$Q_{2\text{-YR}}$ = 2.21 CFS
$Q_{15\text{-YR}}$ = 3.49 CFS

40 0 20 40
1 inch = 40 ft.



LEGEND

- STABILIZED CONSTRUCTION ENTRANCE — SCE
- INLET PROTECTION — CIP / AGIP
- SILT FENCE — SF
- TREE PROTECTION — TP
- LIMITS OF DISTURBANCE — LOD
- SUMP PUMP — SP
- SEDIMENT TANK — ST
- LIMITS OF BELOW GRADE EXCAVATION
- SAFETY FENCE (6' CHAIN LINK FENCE)

DUST CONTROL NOTES:

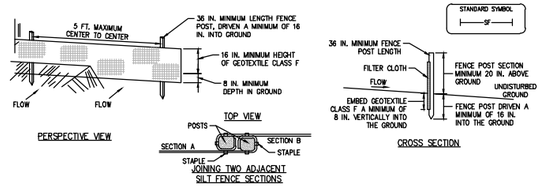
1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE 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 WILL 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, 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 K PA) 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 SITE BOUNDARIES.

TREE AND ROOT PROTECTION NOTES:

ALL STREET TREES WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK MUST BE PROTECTED WITH 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. THE DRIP LINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF A TREE. ALL PROTECTION MEASURES AND EXCAVATION OPERATIONS SHALL COMPLY WITH THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES (GOLD BOOK) – SECTIONS 207.03, 608.07 AND 608.08. IF THERE ARE ANY TREE CONFLICTS ON THIS JOB, SITE PERMIT HOLDER MUST SUSPEND ALL WORK THAT CONTRIBUTES TO THE CONFLICT AND IMMEDIATELY CONTACT WARD ARBORIST OR CALL THE DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-5133 TO RECEIVE CLEARANCE TO CONTINUE THE CONFLICTING WORK.

EROSION AND SEDIMENT CONTROL NOTES:

1. CONTACT DC WATERSHED PROTECTION DIVISION AT 202-535-1364 TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO MOBILIZATION.
2. THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ENERGY & ENVIRONMENT BY PHONE (202-535-2250) AT LEAST 24 HOURS PRIOR TO START OF GRADING ACTIVITY AND WITHIN TWO (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF THE ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.
3. CONTRACTOR TO MAINTAIN ON-SITE STAMPED AND SIGNED, SEDIMENT AND EROSION CONTROL DRAWINGS APPROVED BY THE DEPARTMENT OF ENERGY & ENVIRONMENT, WATERSHED PROTECTION DIVISION.
4. NO LATER THAN THE FIRST DAY OF CONSTRUCTION INSTALL SITE ACCESS MEASURES TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURE REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATERWAYS.
5. ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITIES.
6. DURING CONSTRUCTION ACTIVITIES CONTRACTOR SHALL PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS AND SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES IF REQUIRED BY INSPECTOR.
7. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED WITHOUT COMPLETE SITE STABILIZATION AND APPROVAL FROM THE INSPECTOR.



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 WILL 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 AND 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/FT²/MINUTE (MAX.)	ASTM D-5141
FILTERING EFFICIENCY	75% (MIN.)	ASTM D-5141

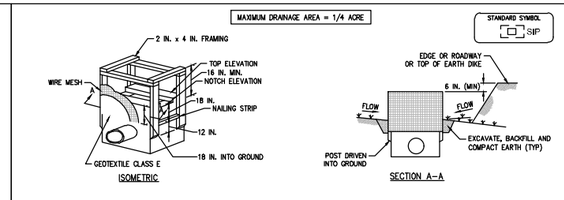
3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, OVERLAP, FOLD, AND STAPLE THEM TO PREVENT SEDIMENT BYPASS.
4. INSPECT SILT FENCE AFTER EACH RAINFALL EVENT, AT LEAST DAILY DURING SUSTAINED RAINFALL EVENTS, AND MAINTAIN WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 30% OF THE FABRIC HEIGHT.

DATE	APPR	REVISED	ISSUED	REFERENCE

SILT FENCE-1

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 301.1



CONSTRUCTION SPECIFICATIONS

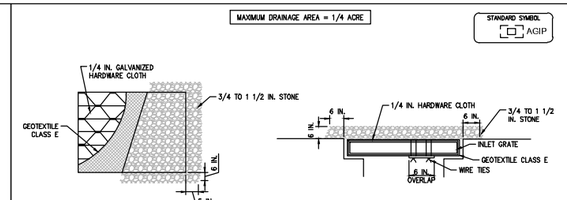
1. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
2. DRIVE 2-INCH x 4-INCH CONSTRUCTION GRADE LUMBER POSTS 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2-INCH x 4-INCH FRAME USING THE OVERLAP JOINT SHOWN ON DETAIL 307.1. THE TOP OF THE BRACE (NEXT) MUST BE 6 INCHES BELOW ADJACENT ROADWAYS WHERE FLOODING AND SAFETY ISSUES MAY ARISE.
3. STRETCH 1/2-INCH x 1/2-INCH WIRE MESH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. THE ENDS MUST MEET AND OVERLAP AT A POST.
4. STRETCH THE GEOTEXTILE CLASS E TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. FASTEN THE GEOTEXTILE FIRMLY TO THE FRAME. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST BE OVERLAPPED AND FOLDED, THEN FASTENED DOWN.
5. BACKFILL AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE LAYER OF EARTH IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION OF THE SIDES.
6. IF THE INLET IS NOT IN A SUMP, CONSTRUCT A COMPACTED EARTH DIKE ACROSS THE DITCH LINE DIRECTLY BELOW IT. THE TOP OF THE EARTH DIKE SHOULD BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.
7. THE STRUCTURE MUST BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND THE GEOTEXTILE REPLACED WHEN IT BECOMES CLOGGED.

DATE	APPR	REVISED	ISSUED	REFERENCE

STANDARD INLET PROTECTION
STORM DRAIN INLET PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 307.1



CONSTRUCTION SPECIFICATIONS

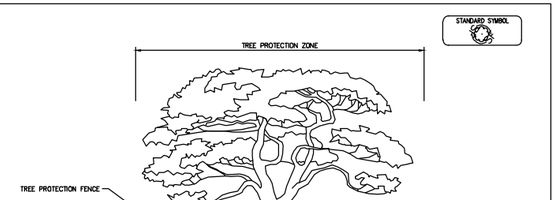
1. LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS, SECURE WITH WIRE TIES, THEN SET GRATE BACK IN PLACE.
2. PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 4 TO 6 INCHES THICK ON THE GRATE TO SECURE THE FABRIC.
3. IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATIVE.

DATE	APPR	REVISED	ISSUED	REFERENCE

AT GRADE INLET PROTECTION
STORM DRAIN INLET PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 307.2

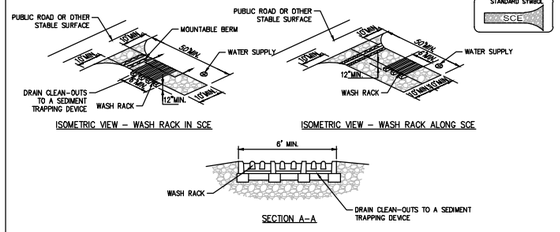


DATE	APPR	REVISED	ISSUED	REFERENCE

TREE PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 903.1



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 5 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.

DATE	APPR	REVISED	ISSUED	REFERENCE

STABILIZED CONSTRUCTION ENTRANCE WITH WASH RACK

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 202.1

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:

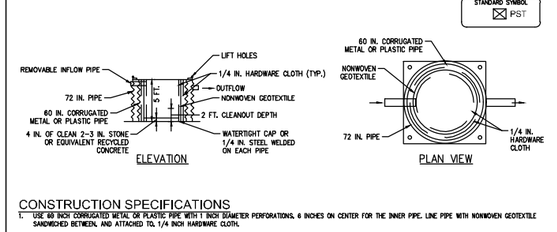
- IN AREAS OF LESS THAN 2% AND SAND AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SOIL FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.
- TO AVOID CIRCUMVENTION, THE ENDS OF THE SILT FENCE SHALL BE EXTENDED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

DATE	APPR	REVISED	ISSUED	REFERENCE

SILT FENCE-2

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 301.2



CONSTRUCTION SPECIFICATIONS

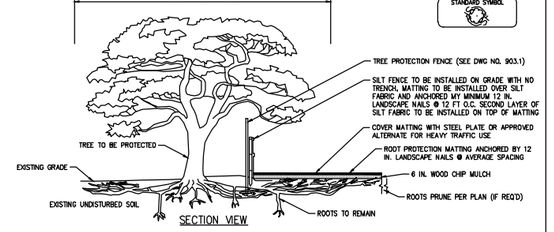
1. USE 60 INCH CORRUGATED METAL OR PLASTIC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER FOR THE INNER PIPE. LINE PIPE WITH NONWOVEN GEOTEXTILE SANDWICHED BETWEEN, AND ATTACHED TO, 1/4 INCH HARDWARE CLOTH.
2. OVERLAP GEOTEXTILE 8 INCHES MINIMUM AT VERTICAL SEAM AND AT THE BOTTOM PLATE.
3. 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.

DATE	APPR	REVISED	ISSUED	REFERENCE

PORTABLE SEDIMENT TANK - 1
(VERTICAL)

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 703.2



CONSTRUCTION SPECIFICATIONS

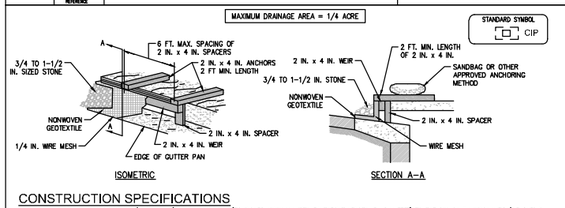
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENSAR ROADRAIN RD7) OR APPROVED EQUIVALENT.
2. ROOT PROTECTION MATTING SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
4. MATTING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

DATE	APPR	REVISED	ISSUED	REFERENCE

TREE PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 903.1



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 ATTACHE 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). THESE 2-INCH x 4-INCH ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED 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 WITH CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES 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.

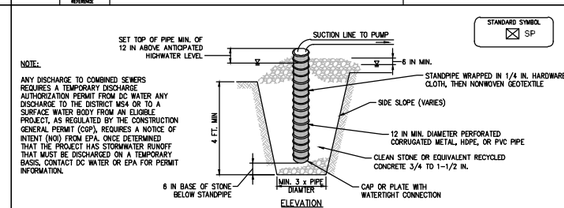
* NOTE: FILTER SOCK IS AN ALTERNATIVE WHICH IS EASIER TO INSTALL AND MAINTAIN THAN THIS STANDARD DESIGN.

DATE	APPR	REVISED	ISSUED	REFERENCE

CURB INLET PROTECTION
STORM DRAIN INLET PROTECTION

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 307.3



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

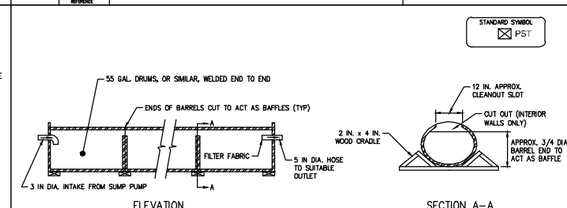
1. WRAP THE PIPE WITH 1/4 INCH GALVANIZED HARDWARE CLOTH AND THEN GEOTEXTILE OVER THE HARDWARE CLOTH.
2. EXCAVATE THE PIT TO 3 TIMES THE PIPE DIAMETER AND 4 FEET IN DEPTH, PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE. 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
3. SET THE TOP OF PIPE A MINIMUM OF 12 INCHES ABOVE THE ANTICIPATED WATER SURFACE ELEVATION.
4. BACKFILL PIT AROUND THE OUTER PIPE WITH 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.
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.

DATE	APPR	REVISED	ISSUED	REFERENCE

SUMP PIT

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 702.1



CONSTRUCTION SPECIFICATIONS

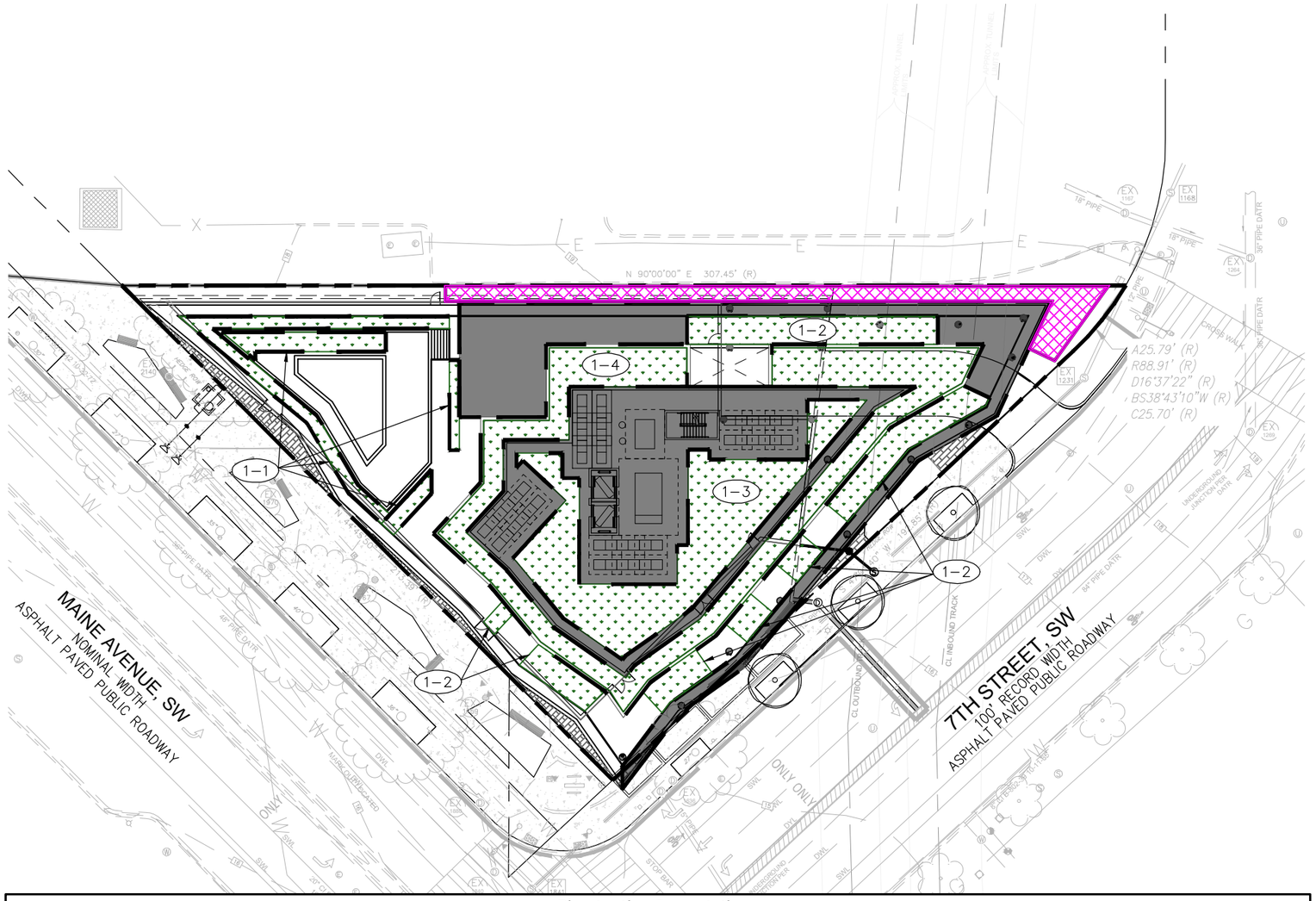
1. THE STRUCTURE MAY BE CONSTRUCTED WITH STEEL DRUMS. STURDY WOOD, OR OTHER MATERIAL SUITABLE FOR HANDLING THE PRESSURE EXERTED BY THE VOLUME OF WATER.
2. SEDIMENT TANKS WILL HAVE A MINIMUM DEPTH OF 2 FEET.
3. ONCE THE WATER LEVEL NEARS THE TOP OF THE TANK. THE PUMP MUST BE SHUT OFF WHILE THE TANK DRAINS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

DATE	APPR	REVISED	ISSUED	REFERENCE

PORTABLE SEDIMENT TANK - 1
(HORIZONTAL)

DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO. 703.1



STORMWATER MANAGEMENT NARRATIVE:

CONCEPTUAL STORMWATER MANAGEMENT PROVIDED FOR PUD REVIEW ONLY. DURING FURTHER DEVELOPMENT OF THE PUD AND FORTHCOMING DEVELOPMENT OF THE FINAL SITE PLAN, STORMWATER MANAGEMENT DESIGN WILL BE ADVANCED TO REFLECT ADDITIONAL DETAILS. THE DESIGN CRITERIA FOR THE PROJECT INCLUDE:

- STORMWATER MANAGEMENT DESIGN WILL MEET OR EXCEED THE CURRENT STANDARDS OF THE DISTRICT OF COLUMBIA IN PLACE AT THE TIME OF PUD APPROVAL.
- THE STORMWATER RUNOFF WILL BE TREATED USING LOW IMPACT DEVELOPMENT BMP MEASURES.
- THE STORMWATER RUNOFF WILL BE TREATED USING A COMBINATION OF ON-SITE BMPs SUCH AS GREEN ROOF, BIORETENTION AND/OR CISTERN FOR WATER REUSE.

NOTE:
AT THE CONCEPT LEVEL, SIZE AND LOCATION OF SWM FACILITIES ARE NOT YET DETERMINED. ACTUAL DESIGN OF THE FACILITIES WILL BE PROVIDED DURING FINAL SITE PLAN.

SWM REQUIREMENTS:

THIS PROJECT FALLS WITHIN THE GUIDELINES OF A 'MAJOR LAND DISTURBANCE' THUS REQUIRING A STORMWATER RETENTION VOLUME (SWRv) BASED ON THE 1.2" STORM, PER THE 2020 SWM GUIDEBOOK FOR THE DISTRICT. IN ADDITION TO THE REQUIRED VOLUME RETENTION ON-SITE, THE DESIGNED SWM FACILITIES WILL PROVIDE 2-YR AND 15-YR STORM CONTROL FOR PEAK DISCHARGE TO THE PRE-DEVELOPMENT AND PRE-PROJECT RATE, RESPECTIVELY.

THIS SITE IS LOCATED IN THE ANACOSTIA WATERFRONT DEVELOPMENT ZONE. THE SITE DOES NOT MEET THE REQUIREMENTS TO BE A "AWDZ SITE" AND WILL BE CONSIDERED A NON-AWDZ SITE LOCATED WITHIN THE AWDZ BOUNDARIES.

- TOTAL ON SITE DISTURBANCE = 23,665 SF
- SWRv REQUIRED = 2,235 CF

Bioretention Computations

Bioretentions/Planter Box #	CDA	Total DA	SWRv (1.2in)	SWRv (max-1.7 in)	Facility SA	Ponding Depth	Filter Media Depth	Gravel Depth	Total Storage Vol Provided	Retention Achieved (Standard Design)	Credited Storage Volume
	sf	sf	cf	cf	SF	ft	ft	ft	cf	cf	cf
1-5	7,390	8,378	890	1,128	988	0.50	4	1	1,877	1,126	1,126
Total	7,390	8,378	890	1,128	988				1,877	**1,126**	**1,126**

Green Roof Computations

Green Roof Location	BMP SA	Additional Roof DA to Facility	Total DA	SWRv (1.2in)	SWRv (max-1.7 in)	Media Depth	Verified Media Max Water Retention	Drainage Layer Depth (Rock Wool)	Verified Drainage Layer Max Water Retention (Baseline)	Storage Volume Provided	Credited Storage Volume
	sf	sf	sf	cf	cf	in		in		cf	cf
1-1	1,078	0	1,078	102	145	8	54.4%	1	0%	391	145
1-2	1,782	0	1,782	169	240	8	54.4%	1	0%	646	240
1-3	2,329	0	2,329	221	313	8	54.4%	1	0%	845	313
1-4	2,903	432	3,335	317	449	8	54.4%	1	0%	1053	449
Total	2,860	0	2,860	272	385					**1,037**	**1,147**
										Total Retention Provided	**2,274**

SWM LEGEND:

40 0 20 40

1 inch = 40 ft.

INTENSIVE GREEN ROOF

BIORETENTION PLANTER

DRAINAGE AREA TO BIORETENTION

DRAINAGE DIVIDE

LEGEND

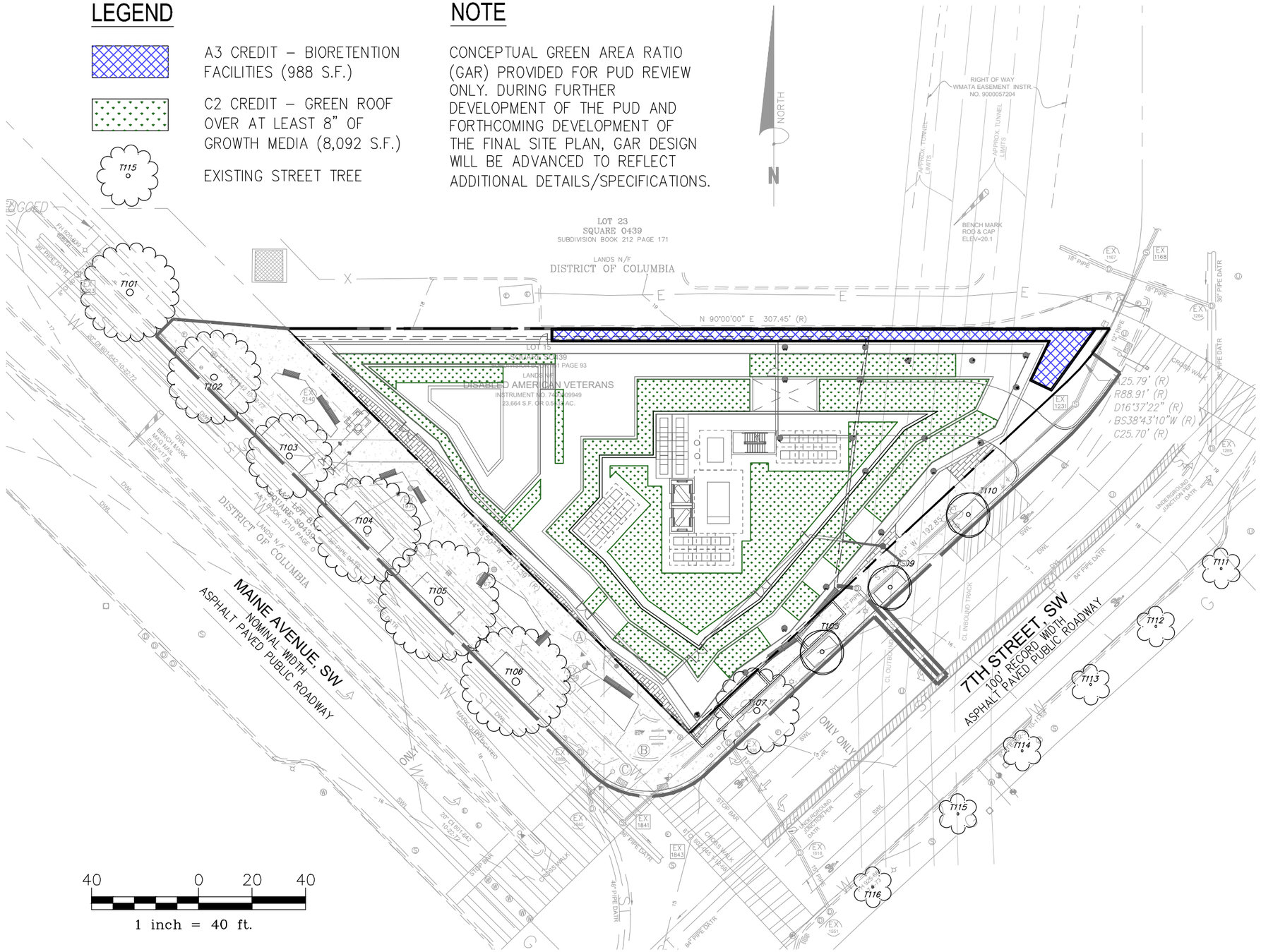
A3 CREDIT – BIORETENTION FACILITIES (988 S.F.)

C2 CREDIT – GREEN ROOF OVER AT LEAST 8" OF GROWTH MEDIA (8,092 S.F.)

EXISTING STREET TREE

NOTE

CONCEPTUAL GREEN AREA RATIO (GAR) PROVIDED FOR PUD REVIEW ONLY. DURING FURTHER DEVELOPMENT OF THE PUD AND FORTHCOMING DEVELOPMENT OF THE FINAL SITE PLAN, GAR DESIGN WILL BE ADVANCED TO REFLECT ADDITIONAL DETAILS/SPECIFICATIONS.



GREEN AREA RATIO SCORESHEET

Green Area Ratio Scoresheet

Address: 807 Maine Avenue SW; 613 Division Ave., NE
Other:

Square	Lot	Zone District
439	15	MU-10

Lot size (enter this value first) *	Lot area (sf)	Minimum Score	Multiplier	GAR Score
	23,664	.20	SCORE:	0.290

	Landscape Elements		Square Feet	Factor		Total
A	**Landscaped areas (select one of the following for each area)**					
1	Landscaped areas with a soil depth < 24"		square feet	0.30		-
2	Landscaped areas with a soil depth ≥ 24"		square feet	0.60		-
3	Bioretention facilities		square feet 988	0.40		395.2
B	**Plantings (credit for plants in landscaped areas from Section A)**				*Native Bonus*	
1	Groundcovers, or other plants < 2' height		square feet 0	0.20	square feet 0	-
2	Plants ≥ 2' height at maturity - calculated at 9-sf per plant	# of plants 0	0	0.30	# of plants 0	-
3	New trees with less than 40-foot canopy spread - calculated at 50 sq ft per tree	# of trees 0	0	0.50	# of trees 0	-
4	New trees with 40-foot or greater canopy spread - calculated at 250 sq ft per tree	# of trees 0	0	0.60	# of trees 0	-
5	Preservation of existing tree 6" to 12" DBH - calculated at 250 sq ft per tree	# of trees 0	0	0.70	# of trees 0	-
6	Preservation of existing tree 12" to 18" DBH - calculated at 600 sq ft per tree	# of trees 0	0	0.70	# of trees 0	-
7	Preservation of existing trees 18" to 24" DBH - calculated at 1300 sq ft per tree	# of trees 0	0	0.70	# of trees 0	-
8	Preservation of existing trees 24" DBH or greater - calculated at 2000 sq ft per tree	# of trees 0	0	0.80	# of trees 0	-
9	Vegetated wall, plantings on a vertical surface		square feet 0	0.60	square feet 0	-
C	**Vegetated or "green" roofs**					
1	Over at least 2" and less than 8" of growth medium		square feet 0	0.60	square feet 0	-
2	Over at least 8" of growth medium		square feet 8,092	0.80	square feet 0	6,473.6
D	**Permeable Paving*** **					
1	Permeable paving over 6" to 24" of soil or gravel		square feet 0	0.40		-
2	Permeable paving over at least 24" of soil or gravel		square feet 0	0.50		-
E	**Other**					
1	Enhanced tree growth systems***		square feet 0	0.40		-
2	Renewable energy generation		square feet 0	0.50		-
3	Approved water features		square feet 0	0.20		-
			sub-total of sq ft = 9,080			
F	**Bonuses**					
1	Native plant species		square feet 0	0.10		-
2	Landscaping in food cultivation		square feet 0	0.10		-
3	Harvested stormwater irrigation		square feet 0	0.10		-
			Green Area Ratio numerator =			6,869

*** Permeable paving and structural soil together may not qualify for more than one third of the Green Area Ratio score.
Total square footage of all permeable paving and enhanced tree growth -

EXISTING TREE INVENTORY

807 Maine Avenue NW
Date of site visit (s): June 3, 2021
Certified Arborist: Benjamin Hartmann, MA-6213A

Tree Number	Caliper (D.B.H.)	Botanical Name	Common Name	Condition Rating	Species Rating
101	29.5	Quercus phellos	Willow Oak	Good	70
102	30.5	Quercus phellos	Willow Oak	Good	70
103	27	Quercus phellos	Willow Oak	Good	70
104	30.6	Quercus phellos	Willow Oak	Good	70
105	24.3	Quercus phellos	Willow Oak	Fair	70
106	35.4	Quercus phellos	Willow Oak	Good	70
107	21.6	Quercus palustris	Pin Oak	Fair	70
108	1.4	Celtis occidentalis	Hackberry	Good	70
109	22.7	Quercus rubra	Red Oak	Fair	70
110	17	Quercus rubra	Red Oak	Good	70
111	3	Quercus shumardii	Shumard Oak	Good	70
112	3	Quercus shumardii	Shumard Oak	Good	70
113	3	Quercus shumardii	Shumard Oak	Good	70
114	2.6	Quercus shumardii	Shumard Oak	Good	70
115	3	Quercus shumardii	Shumard Oak	Good	70
116	3	Quercus shumardii	Shumard Oak	Good	70

Notes:
1. Condition Rating based on Mid-Atlantic Tree Species Rating Guide.
2. Species Rating based on Mid-Atlantic Tree Species Rating Guide.
3. Trees included in this inventory had critical root zones located in or near subject area