

# Civil Exhibits

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EXISTING	DESCRIPTION	PROPOSED
	INDEX CONTOUR	
	INTERMEDIATE CONTOUR	
	EDGE OF PAVEMENT	
	CURB AND GUTTER	
	TRANSITION FROM CG-6R TO CG-6	
	PROPOSED HEADER CURB	
	PROPERTY LINE	
	DEPARTING PROPERTY LINE	
	LOT LINE	
	RIGHT-OF-WAY	
	CENTERLINE	
	FLOOD PLAN	
	CLEARING AND GRADING	
	TREE LINE	
	FLOW LINE OF SWALE	
	STREAM	
	OVERLAND RELIEF PATHWAY	
	FENCE LINE	
	EASEMENT	
	WATER LINE	
	WATER VALVE	
	REDUCER	
	SANITARY SEWER	
	STORM SEWER	
	CABLE TV	
	ELECTRIC SERVICE	
	TELEPHONE SERVICE	
	GAS LINE	
	SPOT ELEVATION	
	UTILITY POLE	
	SIGN	
	SANITARY SEWER IDENTIFIER	
	STORM DRAIN IDENTIFIER	
	EASEMENT IDENTIFIER	
	WATER METER	
	FIRE HYDRANT	
	PARKING INDICATOR	
	STREET LIGHT	
	VEHICLES PER DAY (TRAFFIC COUNT)	
	TEST PIT LOCATION RECOMMENDED/REQUIRED	
	CRITICAL SLOPE SLOPES TO BE STABILIZED PURSUANT TO VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK	
	HANDICAP RAMP (CG-12) DENOTES LOCATION OF STD WOOD CG-12 AND/OR JURISDICTIONAL STANDARD RAMP CONSTRUCTION	
	DENOTES CLEAR SIGHT TRIANGLE	
	TREE	
	BENCHMARK	
	ASPHALT TRAIL	
	CONCRETE SIDEWALK	
	END WALLS	
	END SECTIONS	
	STOP SIGN	
	STREET SIGN	
	OVERHEAD ELECTRIC	
	OVERHEAD TELEPHONE	
	HANDICAP PARKING SPACE (VAN)	
	RIP RAP	
	EX. WETLANDS	

ABBREVIATIONS	
A	AREA OF ARC
AAASHTO	AMERICAN ASSOCIATION OF STATE HWY & TRANS 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
BACK	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	CENTER CORRECTION ON VERTICAL CURVE
c <sub>o</sub>	RUNOFF COEFFICIENT
CATV	CABLE TELEVISION
C&G	CURB AND GUTTER
CB	CATCH BASIN
CBR	CALIFORNIA BEARING RATIO
CC	CENTER OF CENTER
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CG(R)	CURB AND GUTTER (REVERSE SLOPE)
CH	CHORD
CHRG	CHORD BEARING
CIP	CAST IRON PIPE
CL	CENTERLINE OR CLASS
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
DELTA	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
EQIP	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
ECC	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
FI	FIRE HYDRANT
FL	FLOW LINE
FND	FOUNDATION
FOY	FOYER
FP	FLOOD PLAN
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
HÖRZ	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
L	LEFT
M	MONUMENT FOUND
MAX	MAXIMUM
MCH	MECHANICAL
MH	MANHOLE
M	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	PERMETER
P&P	PLAN AND PROFILE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCTC	POINT OF CURVATURE TOP OF CURB
PCPE	POINT OF CURVE EDGE OF PAVEMENT
PFM	PUBLIC FACILITIES MANUAL
PG	PAGE
PGL	POINT OF GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
P	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
PWMT	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
RDR	REDUCER
RD	ROAD OR ROOF DRAIN
REIN	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
SEL	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
S	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
TR	TOP OF WALL OR TAILWATER
TYP	TYPICAL

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

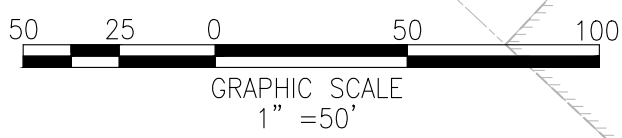
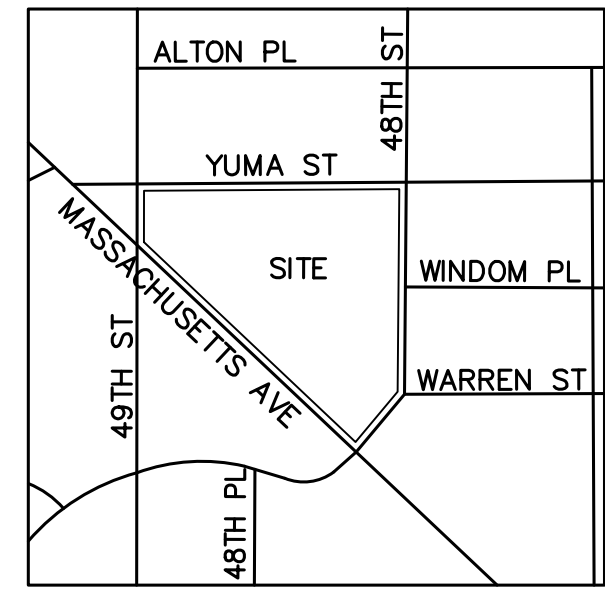
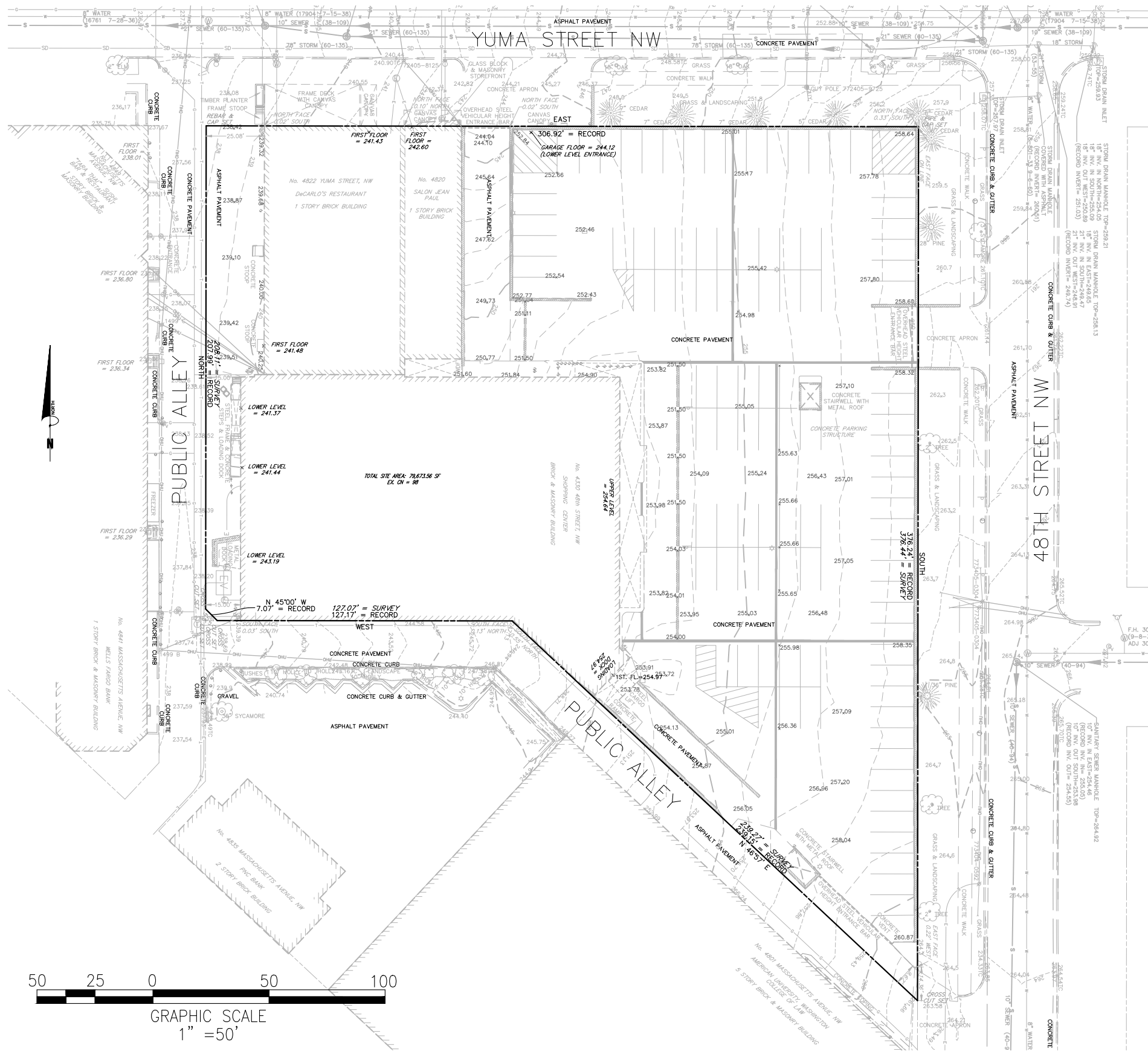
- CONTACT: NOTIFY THE FOLLOWING DC WATER DEPARTMENTS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION:  
A) CONSTRUCTION INSPECTION SECTION AT 202-787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING.  
B) DEPARTMENT OF WATER SERVICES AT 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.
- 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.
- 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.
- 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.
- 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.
- MISS UTILITY: CONTACT MISS UTILITY AT 800-257-7777 48 HOURS BEFORE ANY DIGGING.
- 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.
- ABANDONMENT: THE OWNER MUST PHYSICALLY DISCONNECT EXISTING WATER, SEWER, AND STORM LATERALS THAT ARE TO BE ABANDONED AT THEIR CONNECTION TO THE PUBLIC MAIN.
- 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.
- PRESSURE TESTING AGAINST VALVES: PRESSURE TESTING AGAINST VALVES WILL NOT BE ALLOWED.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONFLICTS: THE CONTRACTOR SHALL 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.
- 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.
- 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.
- DC WATER SAFETY OFFICE: THE DC WATER SAFETY OFFICE CAN BE CONTACTED AT 202-787-4350.

### DC GENERAL NOTES

- 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.
- SEWER AND WATER B.M. TO BE USED FOR CONSTRUCTION.
- ALL PROPOSED WATER AND SEWER WORK TO BE PERFORMED UNDER THE INSPECTION OF THE DC WATER.
- ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE DC WATER.
- USE MANHOLE ENTRY SEALS WHERE REQUIRED.
- 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.
- 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.
- THE PROPOSED STORMWATER MANAGEMENT SYSTEMS SHALL BE PRIVATELY OWNED AND MAINTAINED INCLUDING ALL PIPING ON PRIVATE PROPERTY.
- CONTRACTOR SHALL COORDINATE UTILITY POLE AND UNDERGROUND CONDUIT RELOCATIONS WITH PEPCO, WASHINGTON GAS, VERIZON AND COMCAST.
- SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR. CALL (202) 535-2240 FOR APPOINTMENT.
- 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.
- 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.
- PERMANENT WATER CONNECTIONS MUST BE INSTALLED FOR ALL CONSTRUCTION PURPOSES.
- 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.
- ALL PUBLIC UTILITIES AND ROAD CONSTRUCTION SHALL CONFORM TO THE LATEST DDOT SPECIFICATIONS AND DETAILS.
- 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.
- 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 VIA MISS UTILITY. ADDITIONAL TEST PITS LOCATIONS MAY BE REVISED PRIOR TO FINAL JURISDICTIONAL APPROVAL.
- 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.
- 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.

### SANITARY SEWER TABULATION

1327	TOP = 19.93	IN = 6.66 (10" SAN Fr. 2186)
		OUT = 6.56 (10" SAN TO 1507)
1444	TOP = 18.59	IN = 4.59 (12" SAN Fr. 1507)
		OUT = 4.54 (12" SAN TO SOUTH)
1507	TOP = 20.43	IN = 5.23 (12" SAN Fr. EAST)
		OUT = 6.33 (10" SAN Fr. 1327)
1741	TOP = 16.28	IN = 5.20 (12" SAN TO 1444)
		OUT = 16.28
1914	TOP = 17.15	IN = 4.23 (12" SAN Fr. 1914) (PER RECORDS)
		TOP = 17.15
		IN = 5.26 (12" SAN Fr. 6279) (PER RECORDS)
2186	TOP = 23.49	OUT = 5.26 (12" SAN TO 1741) (PER RECORDS)
		IN = 8.23 (8" SAN Fr. 2374)
		OUT = 7.94 (10" SAN TO 1327)
2374	TOP = 20.08	TOP = 20.08
		IN = 10.36 (6" SAN Fr. 10.36)
		OUT = 9.99 (6" SAN TO 2186)
6060	TOP = 17.76	TOP = 17.76
		IN = 6.51 (12" SAN Fr. 6153)
		IN = 5.46 (12" SAN Fr. 6279)
		OUT = 5.44 (12" SAN TO 1914)
6141	TOP = 18.90	TOP = 18.90
		IN = 11.72 (12" SAN Fr. NORTH)
		OUT = 9.81 (12" SAN TO 6153)
6153	TOP = 18.44	TOP = 18.44
		IN = 9.23 (12" SAN Fr. 6141)
		OUT = 8.41 (12" SAN TO 6060)
6277	TOP = 19.55	TOP = 19.55
		IN = 7.20 (12" SAN Fr. 6360)
		IN = 6.34 (12" SAN Fr. 6484)
		OUT = 6.29 (12" SAN TO 6279)
6279	TOP = 18.97	TOP = 18.97
		IN = 6.28 (12" SAN Fr. EAST)
		IN = 5.98 (12" SAN Fr. 6277)
		OUT = 5.90 (12" SAN TO 6060)
6447	TOP = 20.47	TOP = 20.47
		FLD OF DIRT, APPEARS ABANDONED
6484	TOP = 20.47	TOP = 20.47
		OUT = 8.70 (12" SAN TO 6277) (PER RECORD)
		BLOCKED, NO INVERTS VSIBLE

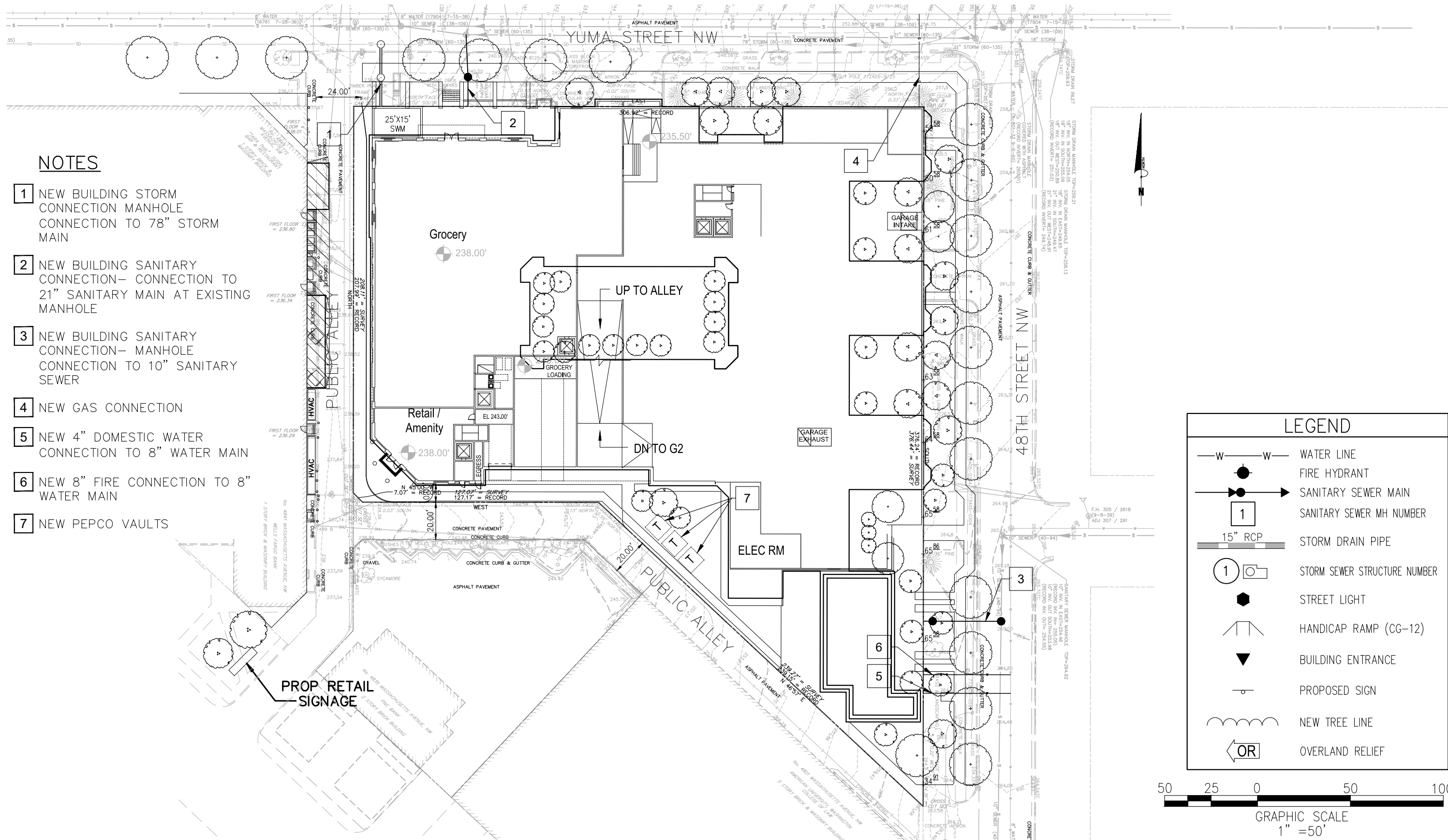


LEGEND			
+123.4	SPOT ELEVATION (ELEVATIONS AT CURB & GUTTER WERE TAKEN AT TOP OF CURB)		FLARE END SECTION
	ROAD SIGN		STORM MANHOLE
	UTILITY MARKER POST		FIRE HYDRANT
	PHONE PEDESTAL		WATER VALVE
	LIGHT POLE		WATER METER
	ELECTRIC MANHOLE		WATER MANHOLE
	GAS VALVE		BLUE PIN FLAG
	CLEAN OUT		IRRIGATION CONTROL BOX
	SANITARY MANHOLE		DRIPLINE
	UNDERGROUND ELECTRIC (APPROX. LOCATION)		IRON PIPE FOUND
	UNDERGROUND GAS (APPROX. LOCATION)		HANDICAP RAMP
	UNDERGROUND TELEPHONE (APPROX. LOCATION)		
	UNDERGROUND WATER (APPROX. LOCATION)		
	UNDERGROUND STORM (APPROX. LOCATION)		
	UNDERGROUND SANITARY (APPROX. LOCATION)		
	DITCH		
	TREELINE		

The Lady Bird | Washington DC

PUD Submission | EXISTING CONDITIONS PLAN

MAY 4, 2019



**NOTES**

- 1 NEW BUILDING STORM CONNECTION MANHOLE CONNECTION TO 78" STORM MAIN
- 2 NEW BUILDING SANITARY CONNECTION- CONNECTION TO 21" SANITARY MAIN AT EXISTING MANHOLE
- 3 NEW BUILDING SANITARY CONNECTION- MANHOLE CONNECTION TO 10" SANITARY SEWER
- 4 NEW GAS CONNECTION
- 5 NEW 4" DOMESTIC WATER CONNECTION TO 8" WATER MAIN
- 6 NEW 8" FIRE CONNECTION TO 8" WATER MAIN
- 7 NEW PEPCO VAULTS

**LEGEND**

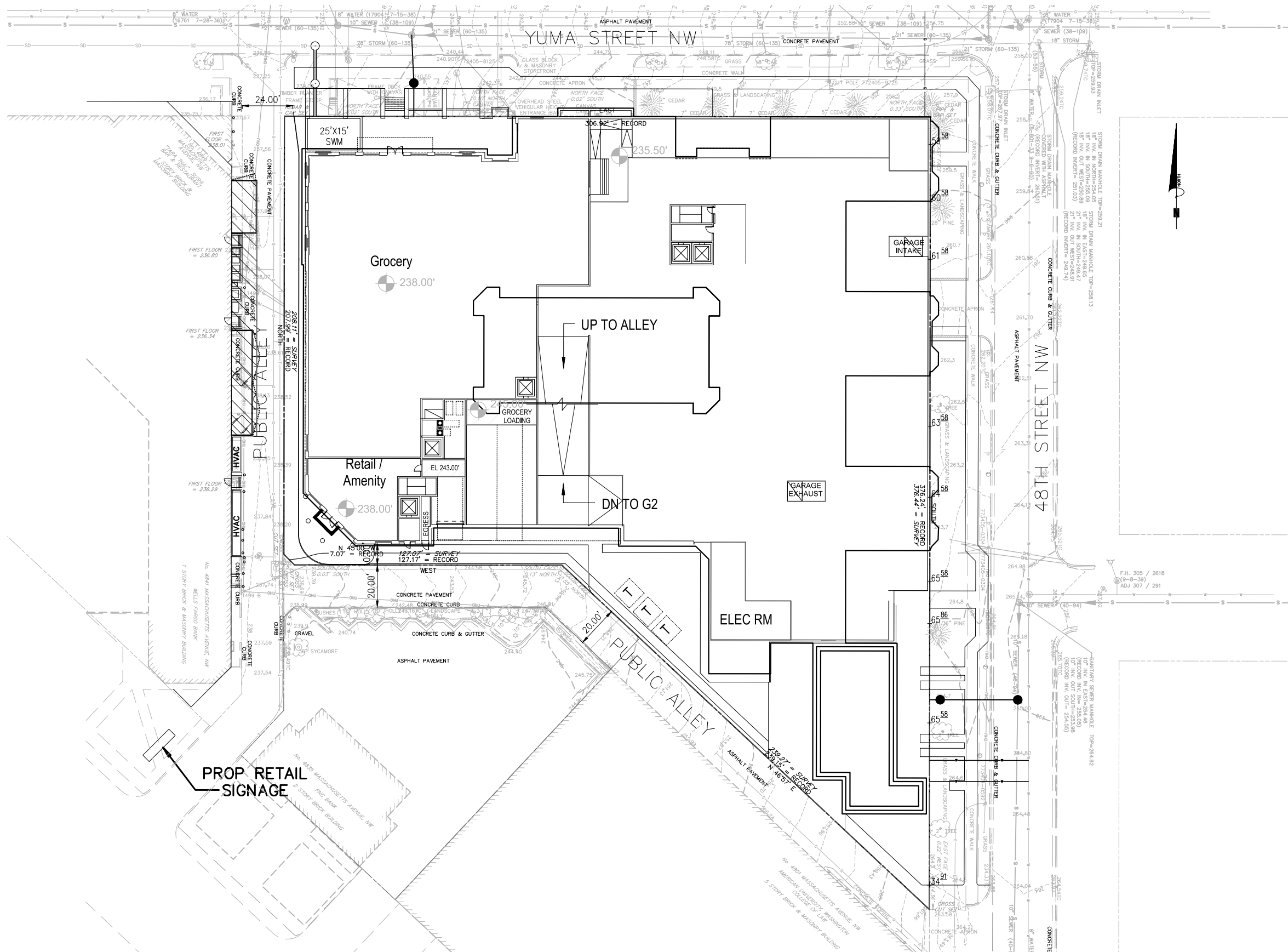
- W—W— WATER LINE
- FIRE HYDRANT
- SANITARY SEWER MAIN
- 1 SANITARY SEWER MH NUMBER
- 15" RCP STORM DRAIN PIPE
- 1 STORM SEWER STRUCTURE NUMBER
- STREET LIGHT
- ∩ HANDICAP RAMP (CG-12)
- ▼ BUILDING ENTRANCE
- PROPOSED SIGN
- ~ NEW TREE LINE
- OR OVERLAND RELIEF



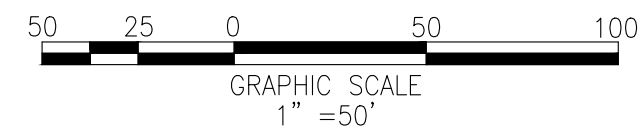
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PUD Submission | **SITE PLAN**

**MAY 4, 2019**



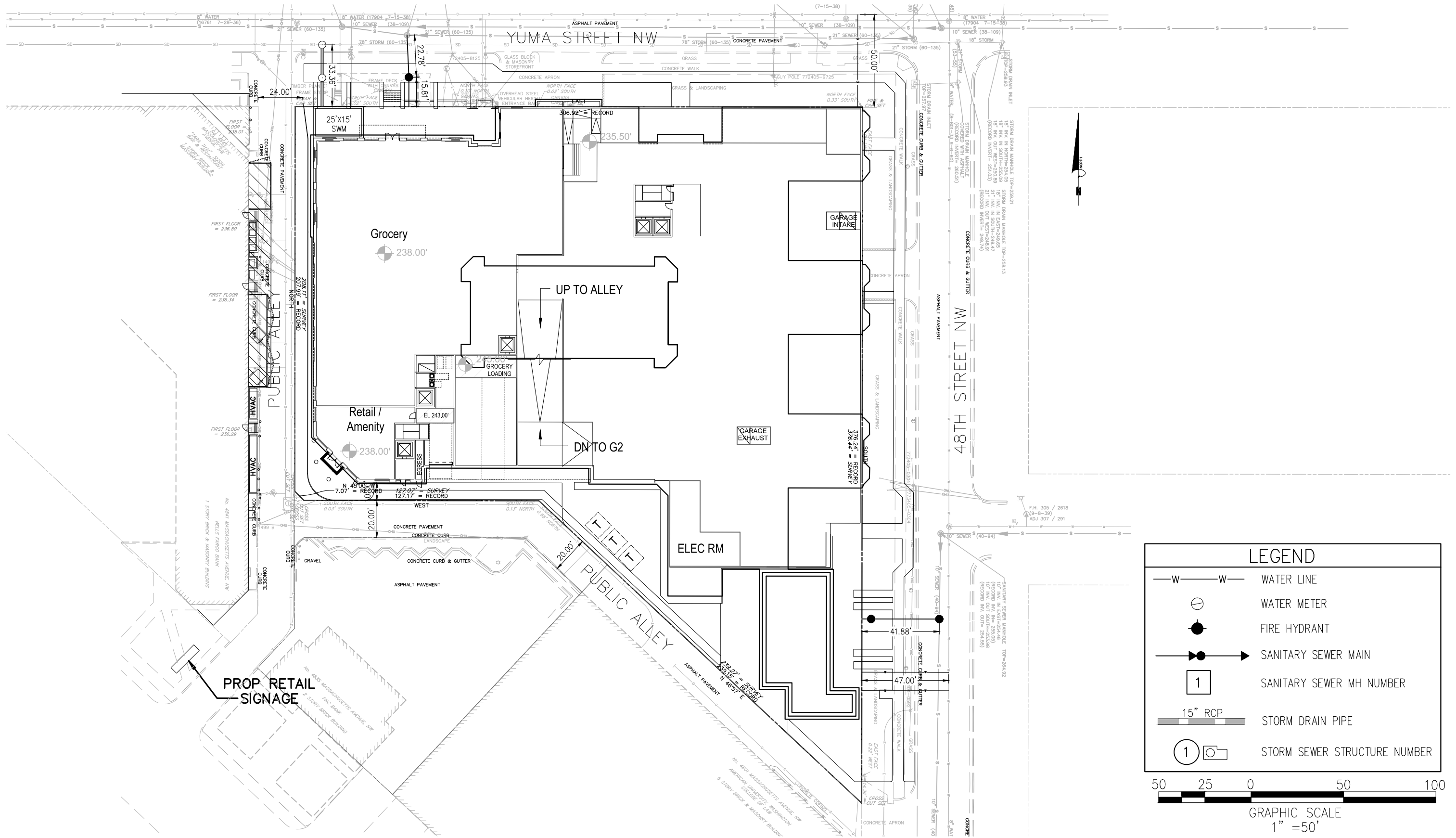
LEGEND	
--- 40 ---	EXISTING CONTOUR
— 40 —	PROPOSED CONTOUR
+ 50.18	PROPOSED SPOT ELEVATION
====	CURB & GUTTER (CG-6)
— W — W —	WATER LINE
⊕	WATER METER
●	FIRE HYDRANT
—●—▶	SANITARY SEWER MAIN
1	SANITARY SEWER MH NUMBER
15" RCP	STORM DRAIN PIPE
1	STORM SEWER STRUCTURE NUMBER
⌒	HANDICAP RAMP (CG-12)
▼	BUILDING ENTRANCE
⌒	PROPOSED SIGN
⌒	NEW TREE LINE
OR	OVERLAND RELIEF



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**LEGEND**

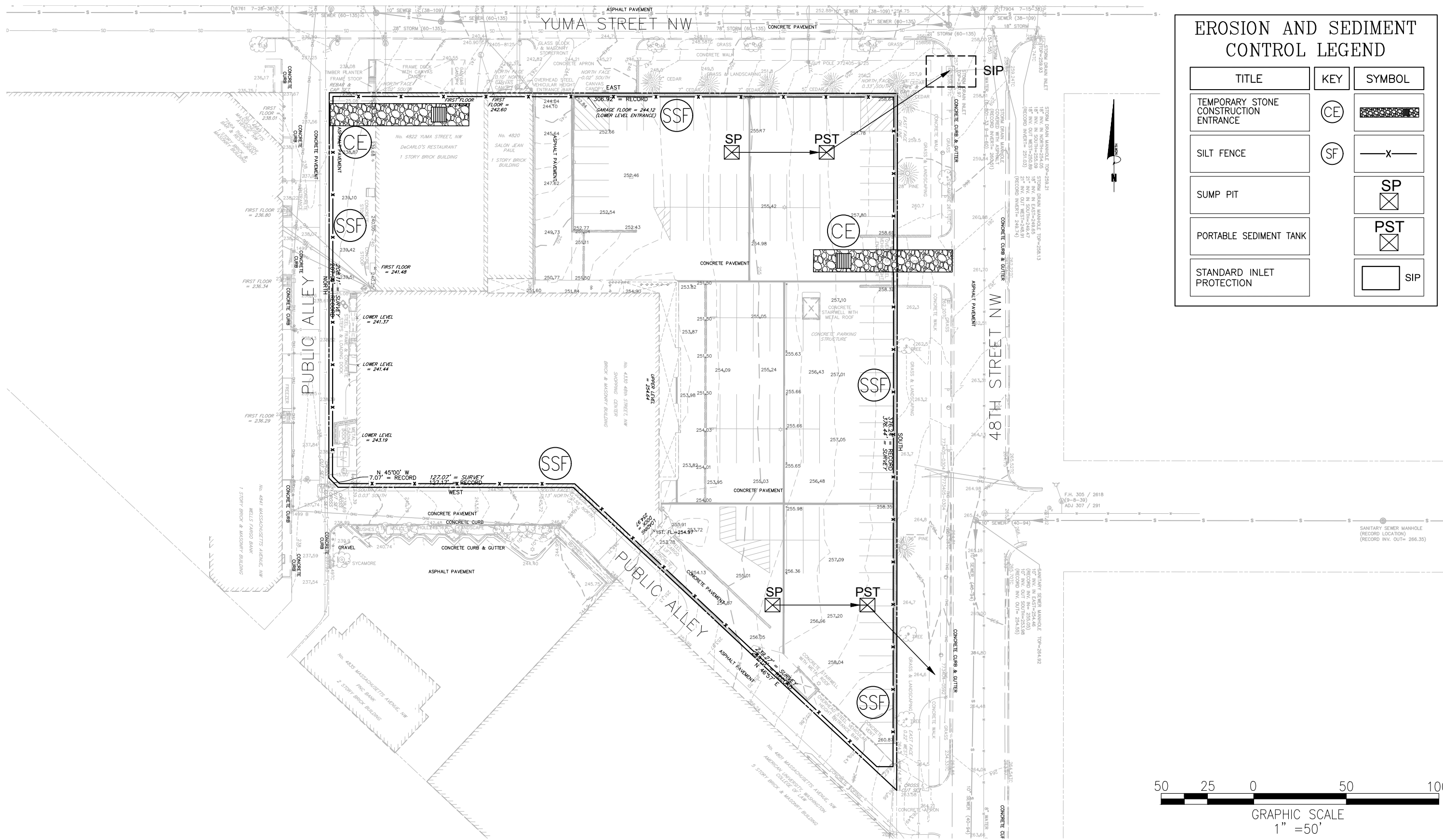
- W — W — WATER LINE
- ⊕ WATER METER
- FIRE HYDRANT
- ▶▶▶ SANITARY SEWER MAIN
- 1 SANITARY SEWER MH NUMBER
- 15" RCP STORM DRAIN PIPE
- 1 □ STORM SEWER STRUCTURE NUMBER

50 25 0 50 100  
 GRAPHIC SCALE  
 1" = 50'

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### EROSION AND SEDIMENT CONTROL LEGEND

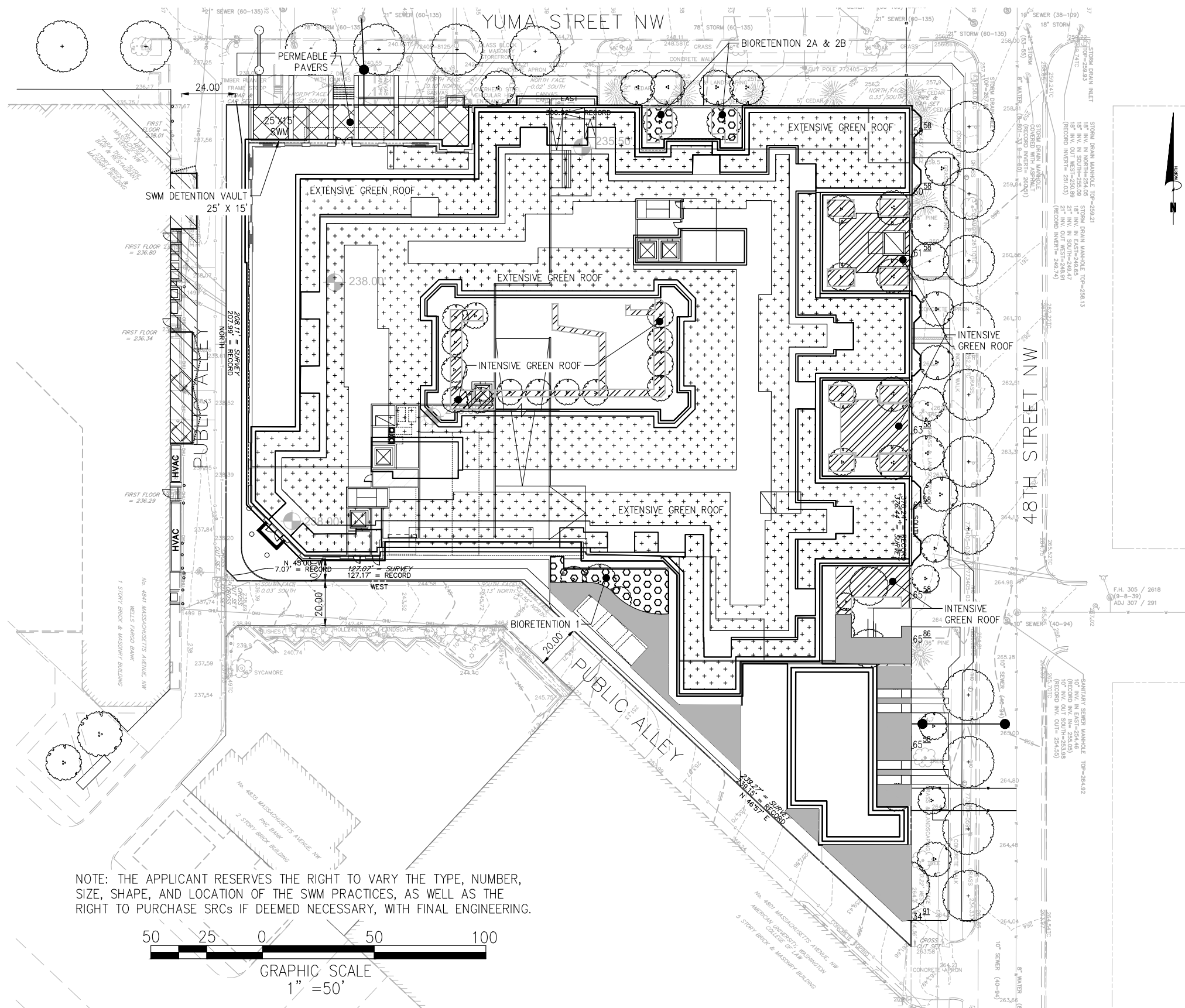
TITLE	KEY	SYMBOL
TEMPORARY STONE CONSTRUCTION ENTRANCE	⊙ CE	
SILT FENCE	⊙ SF	
SUMP PIT	⊙ SP	
PORTABLE SEDIMENT TANK	⊙ PST	
STANDARD INLET PROTECTION	⊙ SIP	

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NOTE: THE APPLICANT RESERVES THE RIGHT TO VARY THE TYPE, NUMBER, SIZE, SHAPE, AND LOCATION OF THE SWM PRACTICES, AS WELL AS THE RIGHT TO PURCHASE SRCs IF DEEMED NECESSARY, WITH FINAL ENGINEERING.



LEGEND	
	LANDSCAPED\COMPACTED LAND COVER (3,105 SF)
	INTENSIVE GREEN ROOF (3,543 SF)
	EXTENSIVE GREEN ROOF (28,578 SF)
	PERMEABLE PAVERS (1,360 SF)
	BIORETENTION FACILITY (BIO 1 = 650 SF) (BIO 2A + 2B = 319 SF)

### STORMWATER MANAGEMENT COMPLIANCE SUMMARY

SWRv REQUIRED = 7,352 CF  
 SWRv PROVIDED = 7,367 CF

#### 2-Year Existing Peak Discharge:

DA (acres) =	1.83
DA (mi <sup>2</sup> ) =	0.002859
CN=	70
Tc=	0.083333
S = 1000/CN -10=	4.285714
la = 0.2S =	0.857143

$$Q(2\text{ year}) = [(P-0.2S)^2] / (P+0.8S) = 0.828\text{ in}$$

#### Pre-Development Peak Discharge:

$$q(2\text{ year}) = qu \cdot Am \cdot Q \cdot Fp = 2.37\text{ cfs}$$

#### 15-Year Allowable Peak Discharge:

DA (acres) =	1.83
DA (mi <sup>2</sup> ) =	0.002859
CN=	98
Tc=	0.083333
S = 1000/CN -10=	0.204082
la = 0.2S =	0.040816

$$Q(15\text{ year}) = [(P-0.2S)^2] / (P+0.8S) = 4.963\text{ in}$$

#### Pre-Project Peak Discharge:

$$q(15\text{ year}) = qu \cdot Am \cdot Q \cdot Fp = 14.19\text{ cfs}$$

THROUGH THE USE OF LOW-IMPACT DEVELOPMENT STRATEGIES AND STORMWATER MANAGEMENT TECHNOLOGIES, THE APPLICANT WILL MEET THE REQUIRED ON-SITE RETENTION OBLIGATION. ADDITIONALLY, AS A RESULT OF THE INCLUSION OF THE AFOREMENTIONED COMPONENTS, THE 2-YR STORM EVENT STORMWATER DISCHARGE FROM THE SITE WILL BE REDUCED FROM 8.49 CFS TO 2.37 CFS. AS REQUIRED BY REGULATION, THE POST-CONSTRUCTION 15-YR STORM EVENT DISCHARGE WILL NOT EXCEED THE CURRENT 14.19 CFS DISCHARGE RATE. AS A RESULT, THE STRESS ON THE EXISTING STORM SEWER SYSTEM AND DOWNSTREAM INFRASTRUCTURE WILL BE REDUCED.

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**STORMWATER MANAGEMENT PLAN**

**MAY 4, 2019**