

**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY  
(DC Water)**



**LINEAR CAD MANUAL  
APPENDIX K**

**April 2023**

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**AUTHORIZATION FORM**

<b>Linear Water and Sewer CAD Manual LOG OF REVISIONS</b>		
<b>Revision Number</b>	<b>Date</b>	<b>Brief Description of Revision</b>
1	April 2023	This is a significant rewrite superseding previous CAD manuals for linear water and sewer work.

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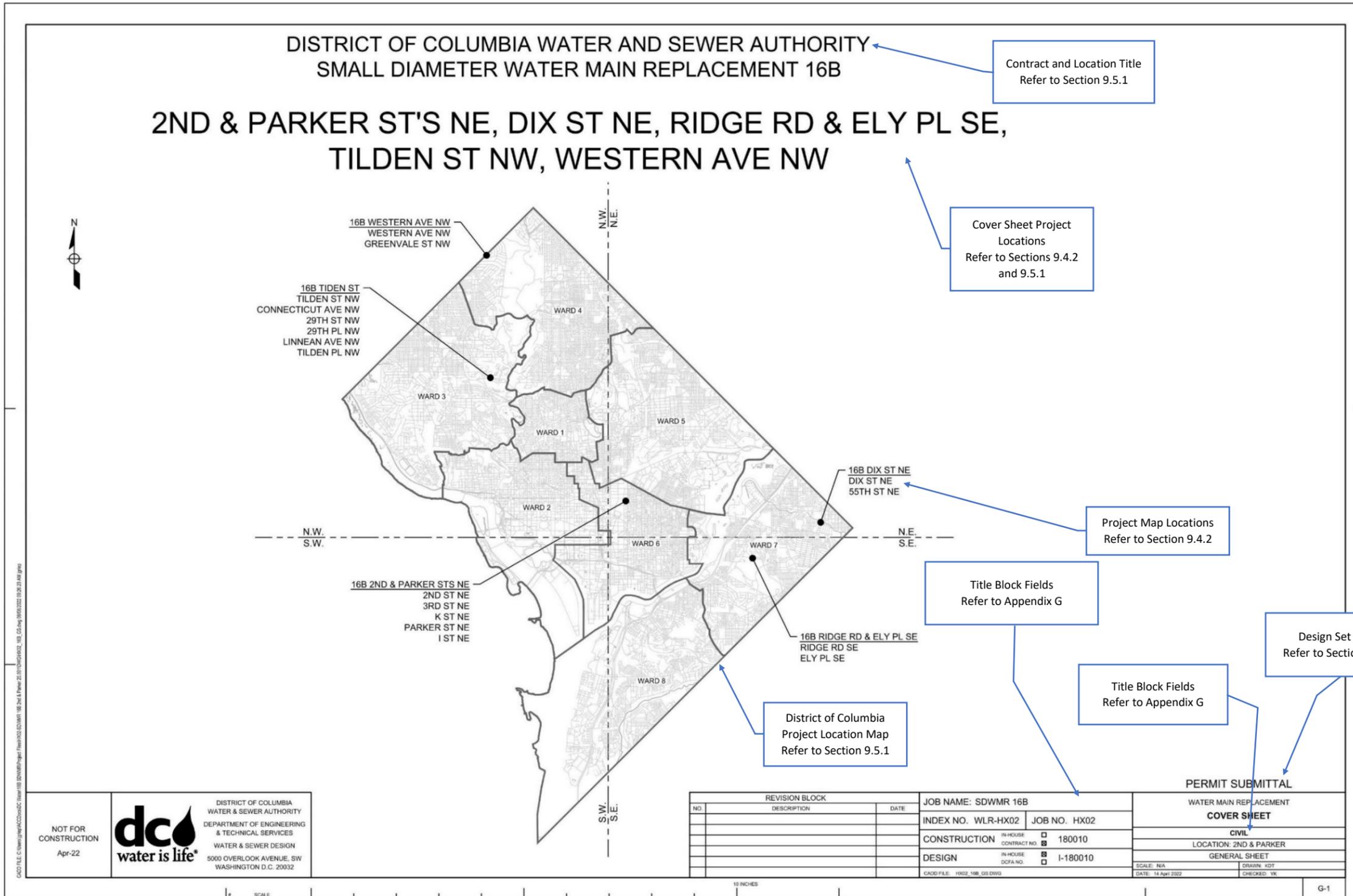
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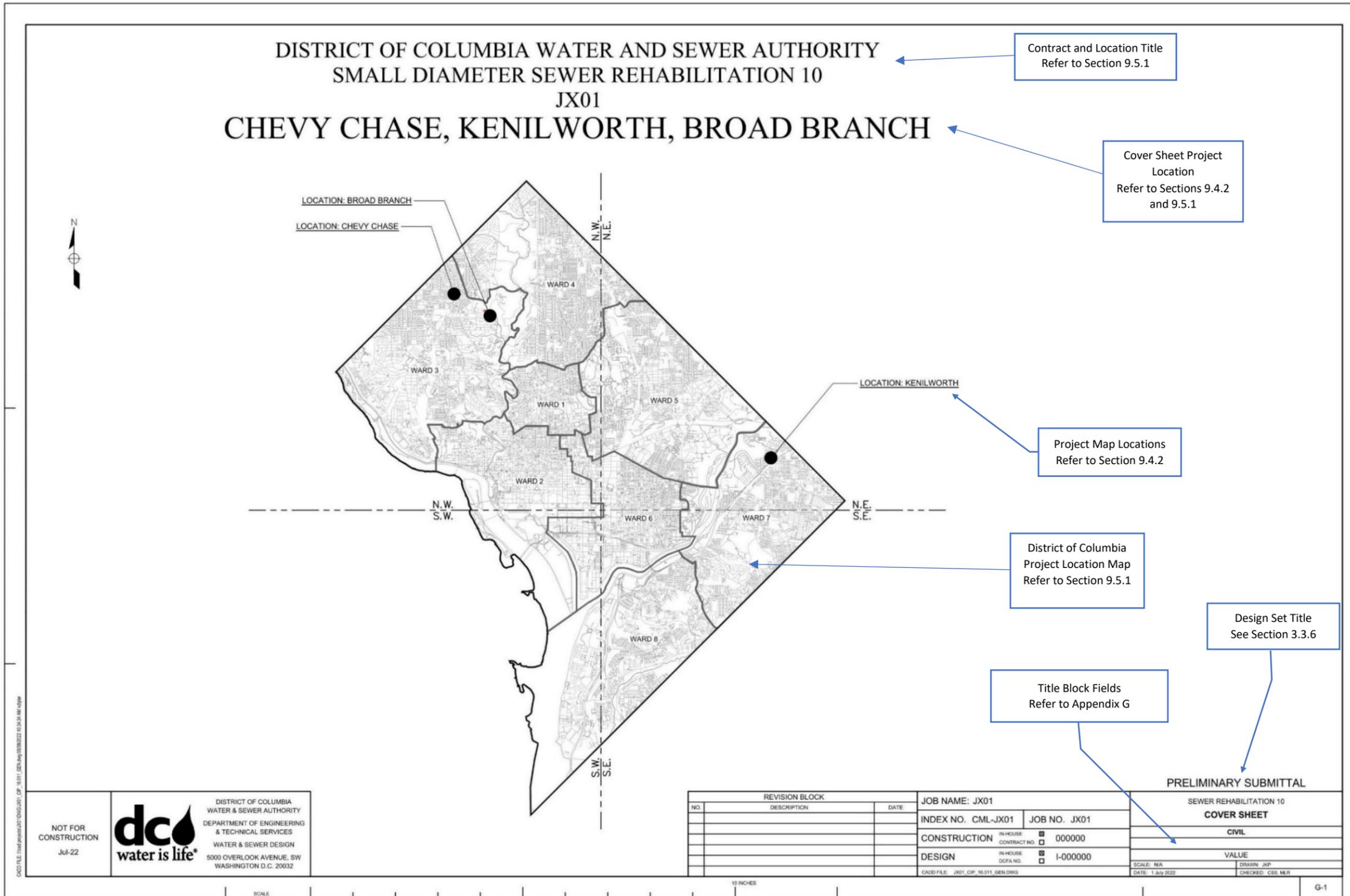
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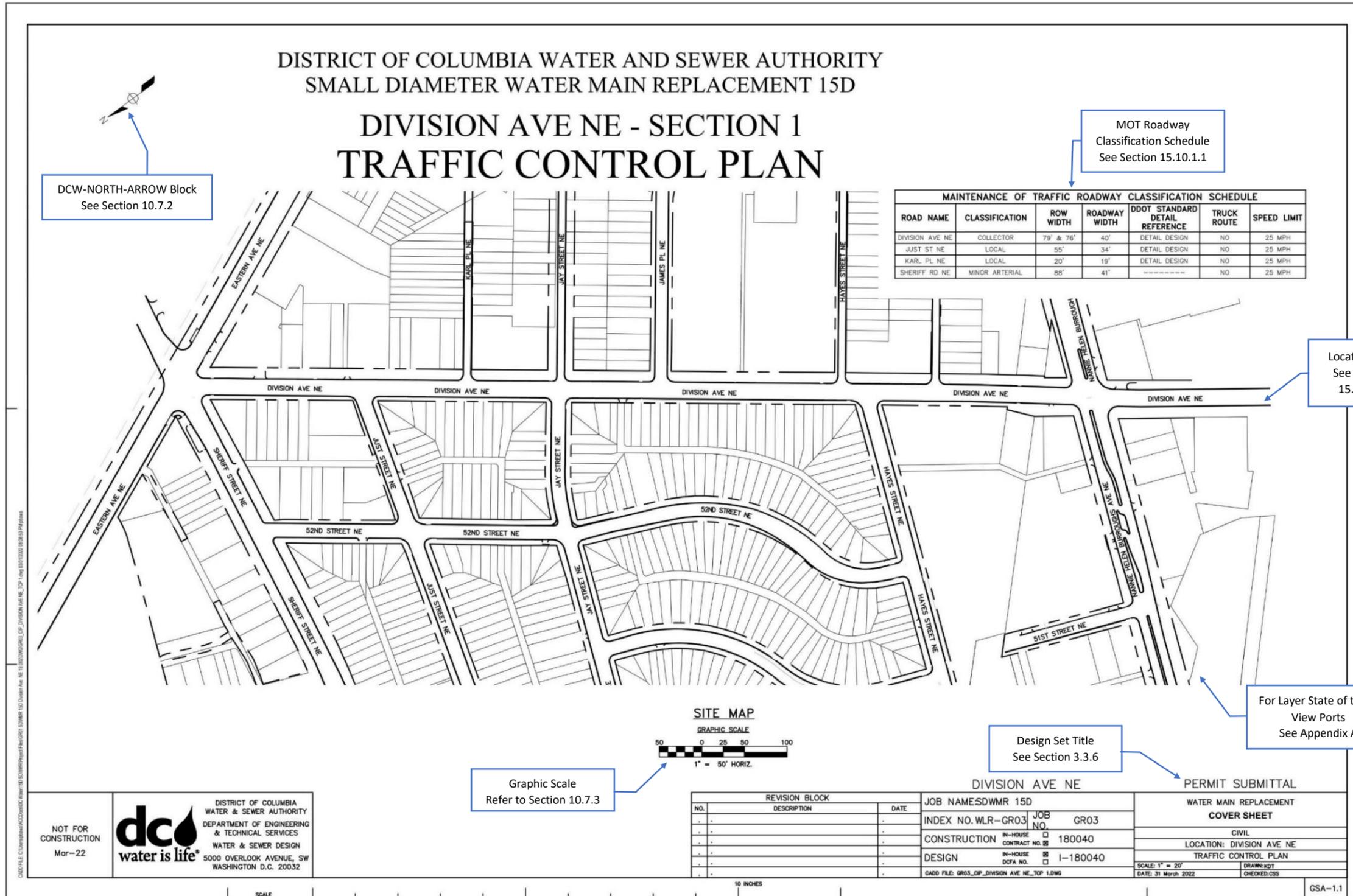
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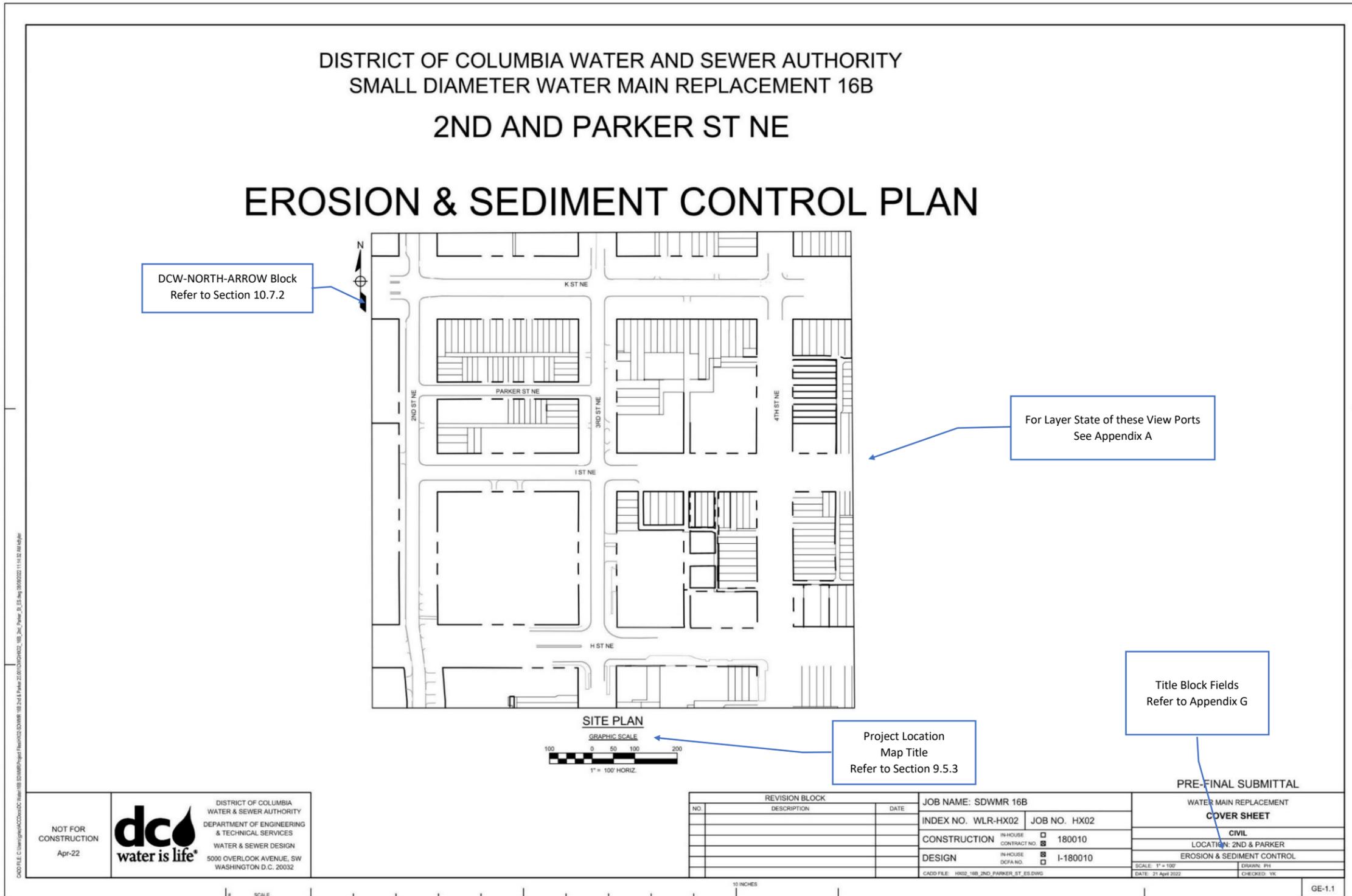
## **Appendix K**

### **Sample Plans**



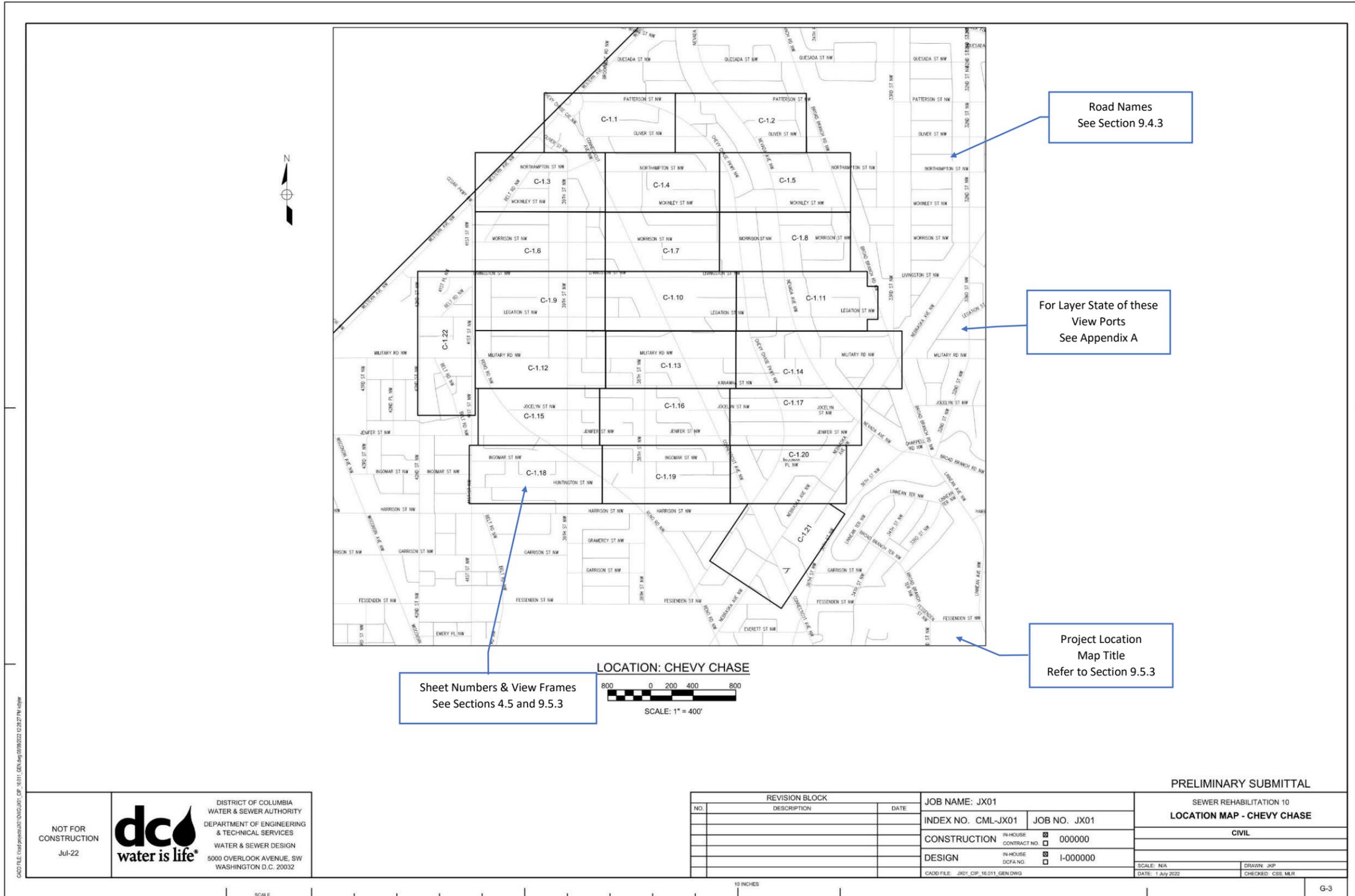




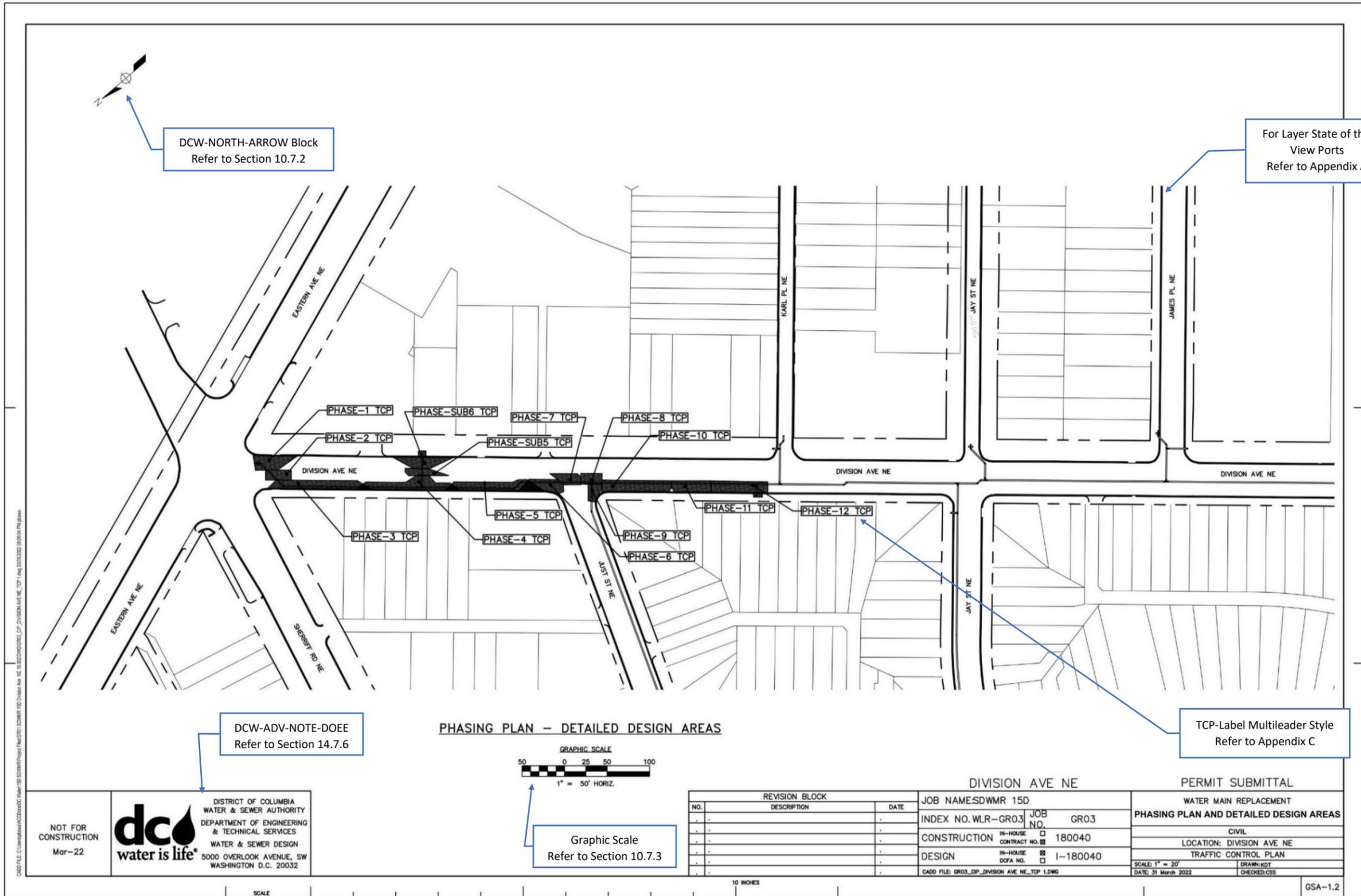




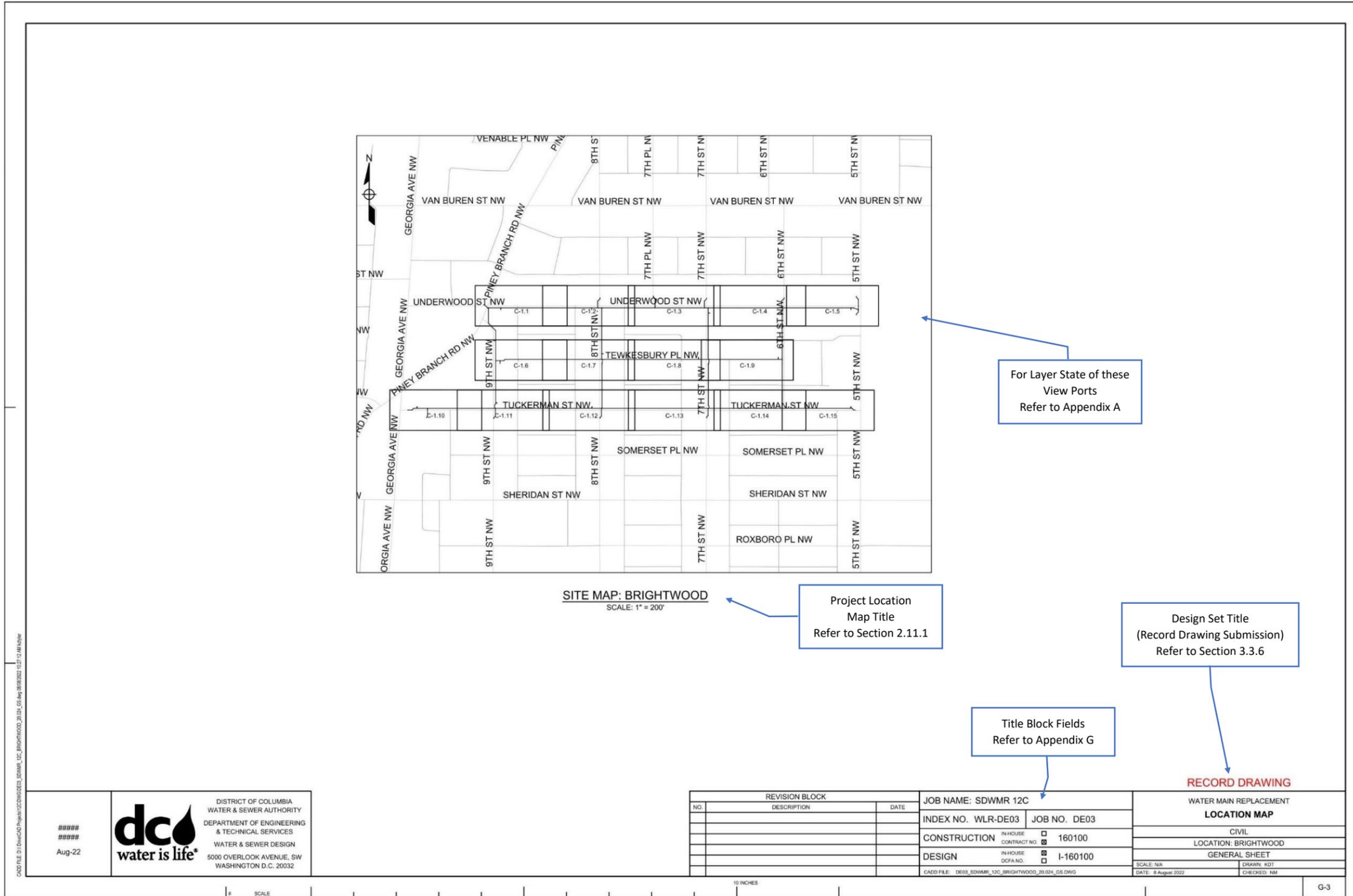
Example -G - Civil Sewer Location Map Sheet (Refer to Section 5.3 & Section 11)



Example – GTA - Traffic Control Phasing/ Location Map Sheet (Refer to Section 5.3 & Section 14)



Example – G – Record Drawing Location Map Sheet (Refer to Section 5.3)



Example- G - Civil Water, Sewer & Record Drawings Legend Sheet(s) (Section 5.4)

### EXISTING LEGEND

- CAST IRON WATER MAIN (24" OR LARGER)
- CAST IRON WATER MAIN (SMALLER THAN 24")
- DUCTILE IRON WATER MAIN (SMALLER THAN 24")
- DUCTILE IRON WATER MAIN (24" OR LARGER)
- ABANDONED WATER MAIN
- COMBINED SEWER (SMALLER THAN 24")
- COMBINED SEWER (24" OR LARGER)
- ABANDONED COMBINED SEWER
- SANITARY SEWER (24" OR LARGER)
- SANITARY SEWER (SMALLER THAN 24")
- ABANDONED SANITARY SEWER
- STORM DRAIN (SMALLER THAN 24")
- STORM DRAIN (24" OR LARGER)
- ABANDONED STORM DRAIN
- ABANDONED GAS MAIN
- COMMUNICATION (VERIZON)
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- INFERRED RIGHT-OF-WAY LINE
- LOT LINE
- BUILDING RESTRICTION LINE
- FENCE
- EXISTING PRESSURE ZONE BOUNDARY
- ELECTRIC/GUY WIRE
- STREET SIGN
- TRAFFIC LIGHT
- STREETLIGHT/LAMP
- UTILITY POLE
- STREET LIGHT POLE
- UTILITY POLE W/STREETLIGHT
- SIGNAL AND STREET LIGHT POLE

### NEW WATER LEGEND

- WATER MAIN LABEL
- PRESSURE ZONE BOUNDARY
- 8" D.I. WATER MAIN
- ABANDONED WATER MAIN
- ABANDONED WATER STRUCTURE
- TEST PIT
- DRAIN BLOW-OFF ASSEMBLY
- DEAD END AIR BLOW-OFF ASSEMBLY
- IN-LINE AIR BLOW-OFF ASSEMBLY
- FIRE HYDRANT
- GATE VALVE
- CONCRETE IN-LINE THRUST BLOCK
- 11.25 BEND
- 22.5 BEND
- 45 BEND
- 90 BEND
- OFFSET
- TEE
- RESTRAINED M.J. SOLID SLEEVE
- M.J. SOLID SLEEVE (PARTIALLY UNRESTRAINED)
- REDUCER
- RESTRAINED CAP
- WATER SERVICE PIPE

### NEW SEWER LEGEND

- 10" VCP SEWER LINE (LINED)
- 10" VCP SEWER LINE (UNLINED)
- SEWER MAINTENANCE HOLE

### AS-BUILT LEGEND

- SEWER MAIN
- 8" D.I. WATER MAIN
- WATER MAIN
- BLOW-OFF ASSEMBLY
- TRAFFIC FIRE HYDRANT
- GATE VALVE
- CONCRETE IN-LINE THRUST BLOCK
- 11.25 BEND
- 22.5 BEND
- 45 BEND
- 90 BEND
- OFFSET
- TEE SHOWN
- RESTRAINED M.J. SOLID SLEEVE
- M.J. SOLID SLEEVE (PARTIALLY UNRESTRAINED)
- REDUCER
- SLEEVE TYPE COUPLING
- RESTRAINED CAP
- SINGLE MH CATCH BASIN
- DOUBLE MH CATCH BASIN
- TRIPLE MH CATCH BASIN
- SEWER MH

### DETAIL PLAN DESCRIPTION

### NEW WATER LABEL

NOT FOR CONSTRUCTION  
Feb-22

DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING  
& TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

JOB NAME: SDWMR 16B

INDEX NO. WLR-HX02    JOB NO. HX02

CONSTRUCTION  IN-HOUSE CONTRACT NO. 180010

DESIGN  IN-HOUSE DCFA NO. 1-180010

CADD FILE: HX02\_16B\_GS.DWG

PRE-FINAL SUBMITTAL

WATER MAIN REPLACEMENT

**LEGENDS**

CIVIL

LOCATION: 2ND & PARKER

GENERAL SHEET

SCALE: N/A    DRAWN: KDT

DATE: 24 February 2022    CHECKED: YK

10 INCHES

**TRAFFIC CONTROL PLAN GENERAL NOTES**

1. THE CONTRACTOR SHALL PERFORM CONSTRUCTION IN ACCORDANCE WITH THE LATEST EDITIONS OF:
  - U.S. DEPARTMENT OF TRANSPORTATION (USDOT), FEDERAL HIGHWAY ADMINISTRATION (FHWA), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
  - DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION (DDOT), STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES
  - DDOT DESIGN AND ENGINEERING MANUAL
  - D.C. TEMPORARY TRAFFIC CONTROL MANUAL GUIDELINES AND STANDARDS
  - DDOT STANDARD DRAWINGS
2. IF APPROVED BY DDOT, THE CONTRACTOR MAY USE A TRAFFIC CONTROL PLAN (TCP) OTHER THAN THE APPROVED PLANS. THE CONTRACTOR SHALL PROVIDE IN WRITING THE ALTERNATE PLAN AND DRAWINGS TO THE ENGINEER AND RECEIVE WRITTEN APPROVAL OF THE PLAN A MINIMUM OF THREE (3) WEEKS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC (MOT) WORK WITH OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME GENERAL LOCATION TO MAINTAIN CONTINUITY OF TRAFFIC FLOW AND MINIMIZE CONGESTION.
4. CONTRACTOR SHALL HAVE, AT ALL TIMES, COPIES OF THEIR TCPs AND PERMITS ON SITE AND AVAILABLE FOR THE INSPECTOR'S REVIEW. UNLESS OTHERWISE AUTHORIZED BY DDOT, ANY CONTRACTOR FAILING TO HAVE APPROVED PERMITS AND TCPs ON SITE, OR ANY CONTRACTOR FAILING TO FOLLOW THE APPROVED PLAN AND TCP, WILL BE SUBJECT TO POSSIBLE FINES AND/OR IMMEDIATE SUSPENSION OF WORK.
5. THE CONTRACTOR SHALL MAKE CERTAIN THE PERSON(S) RESPONSIBLE FOR IMPLEMENTATION OF THE MOT HAS SUCCESSFULLY COMPLETED TRAINING IN TEMPORARY TRAFFIC CONTROL, AND THEIR NAME AND QUALIFICATIONS SHALL BE SUBMITTED TO DC WATER PRIOR TO COMMENCING WORK. ACCEPTED CERTIFYING ORGANIZATIONS ARE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA), VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), OR EQUIVALENT.
6. ALL FIELD PERSONNEL SHALL WEAR SAFETY VESTS, HARD HATS, AND OTHER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIRED PERSONAL PROTECTION EQUIPMENT (PPE).
7. CONTRACTOR SHALL PROVIDE FLAGGING OPERATIONS FOR CONDITIONS DEEMED NECESSARY BY SELF OR DDOT. ALL FLAGGERS MUST BE CERTIFIED AND HAVE THEIR CERTIFICATION CARD IN THEIR POSSESSION WHEN FLAGGING. FLAGGERS SHALL BE EQUIPPED WITH APPROPRIATE PPE, HAND SIGNALING DEVICES, AND ELECTRONIC DEVICES FOR COMMUNICATIONS.
8. ALL FLAGGING OPERATIONS SHALL USE AN OCTAGONAL "STOP/SLOW" PADDLE AT LEAST 24 INCHES WIDE AND AS DEFINED IN THE D.C. TEMPORARY TRAFFIC CONTROL MANUAL GUIDELINES AND STANDARDS.
9. ALL CONSTRUCTION VEHICLES OPERATING IN AND AROUND THE WORK ZONE SHALL OPERATE STROBE OR REVOLVING LIGHTS AT ALL TIMES. THESE LIGHTS SHALL BE MOUNTED IN SUCH A MANNER THAT THEY ARE VISIBLE FOR 360 DEGREES.
10. WORK SHALL NOT BE PERFORMED OUTSIDE WORK ZONES.
11. ONLY THE AMOUNT OF TRENCH THAT CAN BE COMPLETED AND RESTORED BY THE END OF THE WORKDAY MAY BE OPENED.
12. DAYTIME WORK HOURS ARE BETWEEN 9:30 A.M. – 3:30 P.M., OR AS APPROVED BY DDOT. NO WORK MAY OCCUR OUTSIDE OF THESE HOURS, UNLESS APPROVED BY DDOT.
13. NIGHTTIME WORK HOURS ARE BETWEEN 7:30 P.M. – 4:30 A.M. AND MUST BE APPROVED IN WRITING BY DDOT A MINIMUM OF 72 HOURS IN ADVANCE OF NIGHTTIME CONSTRUCTION ACTIVITIES.
14. DURING NIGHTTIME HOURS (7:30 P.M. – 4:30 A.M.), THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE NIGHTTIME PERMITS AND PERMISSIONS. THE WORK SITE SHALL BE MADE SAFE FOR TRAFFIC. WARNING SHALL BE PROVIDED, BY INSTALLING ELECTRONICALLY ILLUMINATED TRAFFIC CONTROL DEVICES SUCH AS FLASHING ARROW PANELS AND WARNING LIGHTS. THESE DEVICES SHALL BE USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL DEVICES, AND THEIR FLASHING SEQUENCE AND LIGHT INTENSITY SHALL MEET THE REQUIREMENTS CITED IN THE MUTCD. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED DURING NIGHTTIME HOURS. THE CONTRACTOR WORKING AT NIGHT SHALL PROVIDE ADEQUATE PORTABLE LIGHTING DEVICES TO ILLUMINATE THE WORK ZONE; THESE LIGHTING DEVICES SHALL BE POINTED AWAY FROM RESIDENTIAL LAND USES.
15. PARKING IS TO BE PROHIBITED IN THE WORK AREAS IDENTIFIED ON THE TCPs. PARKING SHALL BE RESTRICTED 72 HOURS IN ADVANCE, UNLESS THERE IS AN EMERGENCY.
16. ALL RESIDENTS SHALL BE NOTIFIED 72 HOURS IN ADVANCE ABOUT PARKING RESTRICTIONS. PARKING SHALL NOT BE ALLOWED IN THE WORK ZONE. "NO PARKING" SIGNS SHALL BE PLACED EVERY 50 FEET.
17. THE CONTRACTOR SHALL COORDINATE WITH THE DDOT MASS TRANSIT DIVISION REGARDING CONSTRUCTION IMPACTS TO BUS STOPS IN THE PROJECT VICINITY.
18. BUS ROUTE LANES SHALL BE 11 FEET WIDE (MINIMUM).
19. PUBLIC ALLEY ACCESS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY DDOT.

20. DRIVEWAY ACCESS FOR ALL COMMERCIAL AND RESIDENTIAL PROPERTIES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY DDOT.
21. CROSSWALK AND WALKWAY ACCESS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY DDOT. IF IT IS NECESSARY TO CLOSE A CROSSWALK OR WALKWAY, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE TO DIRECT PEDESTRIANS TO A SAFE PATHWAY, AS DEPICTED IN DDOT STANDARD DRAWING NO. 616.09. TEMPORARY WHEELCHAIR RAMPS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR, AS DEEMED NECESSARY BY DDOT. COMPLIANCE TO THE AMERICANS WITH DISABILITIES ACT (ADA) IS REQUIRED.
22. THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE TO DDOT TRAFFIC SERVICES ADMINISTRATION (TSA) WHEN MAKING A CHANGE IN TRAFFIC FLOW PATTERNS.
23. THE DURATION OF ALL LANE CLOSURES MUST BE APPROVED BY DDOT.
24. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE (1) LANE OF TRAFFIC IN ONE (1) DIRECTION, UNLESS OTHERWISE APPROVED BY DDOT. DETOURS SHALL BE INSTALLED PRIOR TO RESTRICTING ANY GIVEN TRAFFIC MOVEMENT. NO LANE CLOSURES OR DETOURS SHALL BE LEFT IN PLACE OUTSIDE NORMAL WORK HOURS, UNLESS OTHERWISE SHOWN ON THE PLAN AND APPROVED BY DDOT.
25. ANY CLOSURE AND/OR SHIFTING OF TRAFFIC LANES SHALL BE COORDINATED WITH DDOT TO ENSURE PROPER SIGNALIZATION TIMING IS MAINTAINED AT ALL INTERSECTIONS, AS APPLICABLE.
26. THE CONTRACTOR SHALL MAINTAIN SIGNAL EQUIPMENT IN A FULLY-OPERATIONAL CONDITION AND CORRECTLY POSITIONED IN FULL VIEW OF INTENDED PEDESTRIAN AND VEHICULAR TRAFFIC, AS APPLICABLE.
27. WHEN REQUIRED BY DDOT, THE CONTRACTOR MAY BE REQUIRED TO LOWER THE POSTED SPEED LIMIT IN THE WORK ZONE. ALL CHANGES TO REGULATORY SIGNS SHALL BE INDICATED TO THE PUBLIC BY THE ADDITION OF TWO (2) ORANGE WORK ZONE FLAGS AND, WHEN REQUIRED BY DDOT, A TYPE B LIGHT PER THE D.C. TEMPORARY TRAFFIC CONTROL MANUAL GUIDELINES AND STANDARDS.
28. ALL PAVEMENT MARKINGS SHALL FOLLOW DDOT STANDARD DRAWING 615.05.
29. TRAFFIC DRUMS SHALL BE PLACED ADJACENT TO ALL SHORT-TERM WORK ZONES WHEN SHIFTING OF THE THRU TRAFFIC LANES IS NECESSARY. THE MAXIMUM DISTANCE BETWEEN DRUMS IS TEN (10) FEET, UNLESS OTHERWISE NOTED.
30. WHEN NOT IN USE, ALL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE REMOVED FROM PUBLIC SPACE.
31. CONTRACTORS FAILING TO USE APPROVED DEVICES REQUIRED BY DDOT WILL BE SUBJECT TO POSSIBLE FINES AND/OR IMMEDIATE SUSPENSION OF WORK.
32. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) 350 CRASH TESTING STANDARDS AND SHALL HAVE MARKINGS OF COMPLIANCE ON THE DEVICES.
33. "END CONSTRUCTION" AND "ROAD WORK AHEAD" SIGNS ARE REQUIRED AT THE ENDS OF THE WORK ZONE. THE SIGNS SHALL ALSO BE PLACED ON STREETS THAT LEAD INTO AND/OR OUT OF THE WORK AREA.
34. ALL REGULATORY SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SIGNS MUST BE SECURELY COVERED PER DDOT REQUIREMENTS.
35. TEMPORARY SIGNS AND MARKINGS PLACED ADJACENT TO THE WORK ZONE SHALL BE CONSISTENT AND VISIBLE AT ALL TIMES.
36. ARROW PANELS ARE REQUIRED FOR ALL LANE CLOSURES.
37. ADVANCE WARNING SIGN SIZE SHALL BE AS NOTED ON PLANS. SIGNS SHALL BE BLACK/ORANGE, HIGH PERFORMANCE, WIDE ANGLE RETRO-REFLECTIVE SHEETING, SIGN SHEETING SHALL BE FLUORESCENT ORANGE IN COLOR AND SHALL BE SOLID, NOT MESH.
38. CONTRACTOR SHALL INSTALL CONSTRUCTION WARNING SIGNS ON 4" X 4" WOODEN SIGN SUPPORTS. THE CONTRACTOR SHALL USE ADJUSTABLE SPRING LOAD SIGN STANDS. CONTRACTOR SHALL INSURE SIGNS ARE VISIBLE DURING SHORT-TERM CONSTRUCTION ACTIVITIES.
39. ALL TEMPORARY SIGNS SHALL BE PLACED IN APPROPRIATE PLACES, BE ADEQUATE FOR EXISTING STREET CONDITIONS, AND BE STABLE AND FIRMLY INSTALLED.
40. NO HOMEMADE SIGNS SHALL BE ALLOWED.
41. DAMAGED, DIRTY, OR DEFACED DEVICES, INCLUDING SIGNS, CHANNELIZING, AND TRAFFIC CONTROL EQUIPMENT, SHALL NOT BE USED.
42. SIGN SPACING SHALL MEET MINIMUM REQUIREMENTS BASED ON THE CORRESPONDING SPEED LIMIT, SEE TABLE 2.
43. CONTRACTORS SHALL INSTALL "STEEL PLATE AHEAD" SIGNS WHENEVER PLATES ARE INSTALLED.
44. AT THE END OF EACH WORKDAY, OPEN EXCAVATIONS SHALL BE PLATED WITH STEEL.

**TRAFFIC CONTROL LEGEND**

- DIRECTION OF TRAFFIC FLOW ARROW (ONE LANE)
- DIRECTION OF TRAFFIC FLOW ARROW
- DIRECTION OF TRAFFIC FLOW ARROW (TURN)
- DIRECTION OF TRAFFIC FLOW ARROW (TWO WAY)
- DIRECTION OF TRAFFIC FLOW ARROW (TWO LANES)
- STAGING AREA/EQUIPMENT STORAGE ZONE
- TRAFFIC CONTROL CONE
- TRAFFIC CONTROL DRUM-BARRELL
- TUBULAR MARKERS
- TEMPORARY CONSTRUCTION SIGN-FACE OF SIGN
- ARROW PANEL BOARD
- DIRECTIONAL ARROW PANEL BOARD
- DIRECTIONAL PANEL ARROW BOARD (ONE LANE)
- CONSTRUCTION ZONE ATTENUATOR
- ILLUMINATED FLASHING AMBER (CAUTION MODE), TYPE B, OR C
- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- TRITON PLASTIC BARRIER
- DIRECTIONAL INDICATOR BARRICADE
- FLAGGER
- HIGH LEVEL WARNING DEVICE (FLAG TREE)
- DAY CONSTRUCTION WORK ZONE
- NIGHT CONSTRUCTION WORK ZONE
- TEMPORARY IMPACT ATTENUATOR
- WATER SERVICE PIT

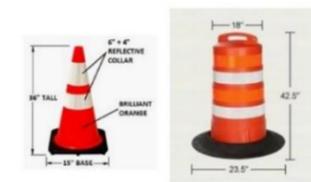
TABLE 1

TRAFFIC CONTROL LETTER CODES				
TAPER LENGTHS (L) (FT)				
SPEED LIMIT (MPH)	WIDTH OF OFFSET (FT)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
MINIMUM DISTANCE BETWEEN SIGNS (FT)				
SPEED LIMIT (MPH)	A	B	C	D
	25 (URBAN)	100	100	100
25	150	150	150	150
30	200	200	200	200
35	250	250	250	250
40	350	350	350	350
45	550	550	550	550
50	600	600	600	600
55	700	700	700	700

Traffic Control Legend  
Refer to 15.10.1.3

Traffic General Notes  
Refer to 15.10.1.3

Letter Code Table  
See Section 15.10.1.3



NOT FOR CONSTRUCTION  
Mar-22

DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING  
& TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

DCW-ADV-NOTE-DOEE  
Refer to Section 14.7.6

REVISION BLOCK		
NO.	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

JOB NAME:SDWMR 15D	
INDEX NO. WLR-GR03	JOB NO. GR03
CONSTRUCTION	IN-HOUSE CONTRACT NO. 180040
DESIGN	IN-HOUSE DCA NO. 1-180040
CADD FILE: GR03_CIP_DIVISION AVE NE_TOP 1.DWG	

DIVISION AVE NE		PERMIT SUBMITTAL	
WATER MAIN REPLACEMENT			
GENERAL NOTES AND LEGEND			
CIVIL			
LOCATION: DIVISION AVE NE			
TRAFFIC CONTROL PLAN			
SCALE: 1" = 20'	DRAWN: KDT		
DATE: 31 March 2022	CHECKED: CSS		

GSA-1.3

Example – GE - Erosion & Sediment Control Legend & Tree Protection Sheet (Refer to Section 5.4 & Section 13)

### EROSION & SEDIMENT CONTROL LEGEND

- CURB INLET PROTECTION (SEE EROSION & SEDIMENT CONTROL DETAILS)
- AT-GRADE INLET PROTECTION (SEE EROSION & SEDIMENT CONTROL DETAILS)
- TREE PROTECTION - PLASTIC FENCING
- TREE PROTECTION - CHAIN LINK FENCE
- LIMITS OF TRENCH EXCAVATION FOR WATER MAIN (WATER MAIN SHOWN)

Erosion and Sediment Control Legend Refer to Section 14.11.1

### TREE PROTECTION NOTES

1. TREE PROTECTION MEASURES AND EXCAVATIONS 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.
2. TREES WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK MUST BE PROTECTED WITH 6-FOOT-TALL CHAIN LINK FENCE TO THE EXTENT OF THE TREE BOX (MINIMUM 4 FT. X 9 FT.) OR TO THE ROOT ZONE IN A PLANTING STRIP. THE ROOT ZONE IS MEASURED FROM THE NEAR SIDE OF THE TRUNK TO THE DISTANCE THAT EQUALS THE TREE'S DIAMETER (MEASURED AT 4.5 FT. ABOVE GRADE) X 1 FT. (PREFERRED DISTANCE 1.5 FEET).
3. TUNNELING (PNEUMATIC EXCAVATION TOOLS OR HYDROEXCAVATION) SHALL BE USED IN LIEU OF TRENCHING AND ROOT PRUNING FOR UTILITY WORK WITHIN THE ROOT ZONE OF A STREET TREE.
4. NO HEAVY EQUIPMENT SHALL BE USED TO EXCAVATE WITHIN THE ROOT ZONE. EXCAVATIONS SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES, AND ROOTS.
5. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE ROOT ZONE OF A TREE: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT; AND BLACKTOP, AND TRENCHING.
6. INSTALL ONLY TRENCHLESS SILT/SUPER SILT FENCE METHODS WITHIN THE ROOT ZONE OF A TREE: TRENCHLESS METHODS SUCH AS FILTER LOGS, SILT SOXX, STRAW BALES, OR AN APPROVED EQUIVALENT SHALL BE USED.
7. NO ROOTS GREATER THAN TWO (2) INCHES IN DIAMETER SHALL BE CUT WITHOUT AN ARBORIST'S PERMISSION. EXPOSED ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.
8. IF FOR ANY REASON THE SCOPE OF THE PROJECT REQUIRES WORK TO BE PERFORMED WITHIN THE FENCED PROTECTION ZONE, THE PERMIT HOLDER MUST CONTACT THE DISTRICT DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION (UFA) AT 202-671-5133 TO RECEIVE CLEARANCE TO CONTINUE THE CONFLICTING WORK.
9. IF A TREE REQUIRES REMOVAL, APPLICANT MUST APPLY FOR THE PROPER PERMIT (CONSTRUCTION OR SPECIAL TREE) FOR ITS REMOVAL AND COMPENSATE AS PER CURRENT LAWS/REGULATIONS. PLEASE CONTACT DDOT UFA AT 202-671-5133 FOR QUESTIONS REGARDING PERMITTING REQUIREMENTS.
10. CONTACT URBAN FORESTRY DIVISION (UFD) DDOT@DC.GOV OR CALL (202) 671-5133. IF UTILITY WORK CANNOT BE MOVED MORE THAN 10 FT. FROM A STREET TREE (MEASURING FROM THE NEAR SIDE OF THE TRUNK) OR COMPLETED BY TUNNELING.

Standard Tree Protection Note Refer to Section 14.7.5

Tree Protection Standard Detail Refer to Section 14.11.1

DATE	APPR.			
ISSUED	REVISION			
	REFERENCE			

**TREE PROTECTION**

DISTRICT OF COLUMBIA  
DEPARTMENT OF ENERGY & ENVIRONMENT  
DWG. NO 903.1

SOURCE: URBAN TREE FOUNDATION 2014

NOT FOR CONSTRUCTION  
Feb-22

DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

PRE-FINAL SUBMITTAL

JOB NAME: SDWMR 16B		WATER MAIN REPLACEMENT	
INDEX NO. WLR-HX02	JOB NO. HX02	<b>TREE PROTECTION NOTES &amp; LEGEND</b>	
CONSTRUCTION	<input type="checkbox"/> IN-HOUSE CONTRACT NO. 180010	CIVIL	
DESIGN	<input checked="" type="checkbox"/> IN-HOUSE DCFA NO. 1-180010	LOCATION: 2ND & PARKER	
CADD FILE: HX02_16B_2ND_PARKER_ST_ES.DWG		EROSION & SEDIMENT CONTROL	
SCALE: N/A	DRAWN: PH	DATE: 24 February 2022	
	CHECKED: YK		

10 INCHES

GE-1.3

Example – G – Civil Water, Sewer, Record Drawing, Erosion & Sediment Control & Traffic Control Abbreviations Sheet (Refer to Section 5.5)

ABBREVIATIONS AND ACRONYMS									
@	AT	CP	CONCRETE PIPE	HWY	HIGHWAY	PPH	PAYPHONE	UNO	UNLESS NOTED OTHERWISE
▲	CENTERLINE	CRK	CREEK	IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS	PRC	POINT OF REVERSE CURVATURE	USPS	UNITED STATES POSTAL SERVICE
°	DEGREE	CS	CARBON STEEL	ID	INSIDE DIAMETER	PRESS	PRESSURE	USDOT	UNITED STATES DEPARTMENT OF TRANSPORTATION
Δ	DELTA	CSO	COMBINED SEWER OVERFLOW	IN	INCH, INCHES	PROP	PROPOSED		
∅	DIAMETER	CSPX	CONCRETE SEWER PIPE EXTRA STRENGTH	INT	INTERIOR, INTERNAL	PRV	PRESSURE REDUCING VALVE	V	VALVE
=	EQUAL, EQUALS	CT	COURT	INVERT	INVERT	PS	PUMP STATION	VB	VERTICAL BEND
≡	FLOWLINE	CTRL	CONTROL	IPMA	INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION	PSRA	PUBLIC SPACE REGULATION AGENCY	VCP	VITRIFIED CLAY PIPE
′	FOOT, FEET	CV	CHECK VALVE	ISO	ISOLATION	PT	POINT OF TANGENCY	VCPX	VITRIFIED CLAY PIPE EXTRA STRENGTH
″	INCH, INCHES	CY	CUBIC YARDS	JCT	JUNCTION	PVC	POLYVINYL CHLORIDE	VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
±	PROPERTY LINE	DB	DRAIN	JT	JOINT	PVC	POLYVINYL CHLORIDE PIPE	VERT	VERTICAL
∠	TOTAL DEFLECTION ANGLE	DC	DUCT BANK	JUNCT	JUNCTION	PW	POTABLE WATER	VLG	VILLAGE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DCD	DISTRICT OF COLUMBIA	ISO	ISOLATION	PWR	POWER	VLV	VALVE
AB	ABANDONED	DCFR	DISTRICT OF COLUMBIA FIRE	JCT	JUNCTION	QA	QUALITY ASSURANCE	VLV	VALVE
ABAND	ABANDONED	DCRA	DISTRICT OF COLUMBIA MUNICIPAL AFFAIRS	JT	JOINT	QC	QUALITY CONTROL	VLY	VALLEY
ABCSO	ABANDONED COMBINED SEWER OVERFLOW	DCR	DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY	JUNCT	JUNCTION	QLA	QUALITY LEVEL A	VT	VALVE NUMBER (TEMPORARY)
ABG	ABANDONED GAS	DCWATER	DISTRICT OF COLUMBIA WATER AND SEWER	L	LENGTH	QLB	QUALITY LEVEL B	VV	VIEW
ABSS	ABANDONED SANITARY SEWER	DDOT	DISTRICT DEPARTMENT OF TRANSPORTATION	LC	LENGTH OF CURVE	QLC	QUALITY LEVEL C	W	WATER
ABW	ABANDONED WATER	DEG	DEGREE	LF	LINEAR FEET	QLD	QUALITY LEVEL D	W	WEST
ACSC	ASPHALTIC CONCRETE SURFACE COURSE	DET	DEPARTMENT OF ENGINEERING AND TECHNICAL SERVICES	LG	LONG	R	RADIUS	W	WIDE
ADA	AMERICANS WITH DISABILITIES ACT	DI	DRAIN MAINTENANCE HOLE	LOD	LIMITS OF DISTURBANCE	RAW	RIGHT-OF-WAY	W&S	WATER AND SEWER
AGIP	AT-GRADE INLET PROTECTION	DIP	DUCTILE IRON PIPE	LN	LANE	RCCP	REINFORCED CONCRETE CULVERT PIPE	W	WITH
ANC	ADVISORY NEIGHBORHOOD COMMISSION	DMH	DRAIN MAINTENANCE HOLE	LP	LIGHT POLE	RCCP	REINFORCED CONCRETE CULVERT PIPE	WASA	WATER AND SEWER AUTHORITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DMS	DEPARTMENT OF MAINTENANCE SERVICES	LP	LOW POINT	RCCPX	REINFORCED CONCRETE CULVERT PIPE EXTRA STRENGTH	WCH	WATER HOUSE CONNECTION
AP	ACCESS PIT	DOE	DEPARTMENT OF ENERGY AND ENVIRONMENT	LT	LEFT	RCP	REINFORCED CONCRETE PIPE	WM	WATER MAIN
APPROX	APPROXIMATE	DPW	DEPARTMENT OF PUBLIC WORKS	M	METER	RCP	REINFORCED CONCRETE PIPE	WMATA	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ARS	AIR RELEASE STATION	DR	DRIVE	M&P	MEASUREMENT AND PAYMENT	RCP	REINFORCED CONCRETE CULVERT PIPE	WSD	WATER SHUT-OFF
ARV	AIR RELEASE VALVE	DRI	DRIVEWAY	MAC	MACADAM	RD	ROAD	WTR	WATER
ASPH	ASPHALT	DRN	DRAIN	MAX	MAXIMUM	RED	REDUCE	WV	WATER VALVE
ASSE	AMERICAN SOCIETY OF SAFETY ENGINEERS	DSS	DEPARTMENT OF SEWER SERVICES	MB	MAILBOX	RREINF	REINFORCING	WW	WASTEWATER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DWG	DRAWING	MCIGC	MIXED CONCRETE/GRANITE CURB	REQD	REQUIRED	WELL	WET WELL
ATSSA	AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION	DWS	DEPARTMENT OF WATER SERVICES	MCIGC W/C	MIXED CONCRETE/GRANITE CURB WITH CONCRETE GUTTER	REV	REVERSE	WY	WAY
AVE	AVERAGE	DWT	DEPARTMENT OF WASTEWATER TREATMENT	MDSHA	MARYLAND STATE HIGHWAY ADMINISTRATION	RI	RESTRAINED JOINT		
AVG	AVERAGE	E	EAST, EASTING	MECH	MECHANICAL	ROW	RIGHT-OF-WAY		
AWWA	AMERICAN WATER WORKS ASSOCIATION	EMB	EMBEDMENT	MFC	MINIMUM FOR CONSTRUCTION	RR	RAILROAD		
BB	BUFFALO BOX	EMC	EMERGENCY	MFR	MANUFACTURE	RT	RIGHT		
BF	BLIND FLANGE	EMH	ELECTRIC MAINTENANCE HOLE	MGC	MIXED GRANITE/CONCRETE CURB WITH CONCRETE GUTTER	S	SEWER		
BFV	BUTTERFLY VALVE	EMS	EMERGENCY MEDICAL SERVICES	MGR	MANAGER	S	SOUTH		
BLDG	BUILDING	E&S	EROSION AND SEDIMENT CONTROL	MH	MAINTENANCE HOLE	SAN	SANITARY		
BLVD	BULEVARD	EA	EACH	MIN	MINIMUM	SCHD	SCHEDULE		
BM	BENCHMARK	EC	EDGE OF CONCRETE	MISC	MISCELLANEOUS	SD	STORM DRAIN		
BO	BLOW OFF	ECB	ELECTRIC CONTROL BOX	MJ	MECHANICAL JOINT	SDWMR	SMALL DIAMETER WATER MAIN REPLACEMENT		
BOT	BOTTOM	EJ	EXPANSION JOINT	MON	MONUMENT	SE	SOUTHEAST		
BR	BRIE RACK	EL	ELEVATION	MOT	MAINTENANCE OF TRAFFIC	SEQ	SEQUENCE		
BTWN	BETWEEN	ELB	ELBOW	MPD	METROPOLITAN POLICE DEPARTMENT	SF	SILT FENCE		
BW	BACK OF WALK	ELEC	ELECTRIC	MTD	MULTI TILE DUCT	SF	SQUARE FEET		
BYP	BYPASS	ELEV	ELEVATION	MTL	METAL	SHT	SHEET		
BYPS	BYPASS	EMB	EMBEDMENT	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SL	STREET LIGHT		
C	COMMUNICATIONS	EMC	EMERGENCY	N	NORTH, NORTHING	SMH	SEWER MAINTENANCE HOLE		
C&G	CURB AND GUTTER	EMH	ELECTRIC MAINTENANCE HOLE	NA	NOT APPLICABLE	SP	SPACED		
C&L	CLEANING AND LINING	EMA	EMERGENCY MEDICAL SERVICES	NAV	NORTH AMERICAN VERTICAL DATUM	SP	SUMP PIT		
C/C	CENTER TO CENTER	EPS	AGENCY ENGINEERING PROGRAM MANAGEMENT CONSULTANT	NAVDP	NATIONAL AMERICAN VERTICAL DATUM	SPEC	SPECIFICATION		
CAD	COMPUTER-AIDED DRAFTING	EP	ENGINEERING PROGRAM	NCHRP	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	SPRVS	SUPERVISOR		
CADD	COMPUTER-AIDED DESIGN AND DRAFTING	EQ	EQUAL, EQUALIZATION	NE	NORTH EAST	SRP	SURFACE RESTORATION PLAN		
CB	CATCH BASIN	EQ	EQUAL, EQUALIZATION	NGVD	NATIONAL GEODETIC VERTICAL DATUM	SS	SANITARY SEWER		
CC	CONCRETE CURB	ETR	EXISTING TO REMAIN	NIC	NOT IN CONTRACT	SS	STAINLESS STEEL		
CC&G	CONCRETE CURB AND GUTTER	EW	EACH WAY	NO	NUMBER	ST	STREET		
CI	CAST IRON	EX	EXISTING	NOS	NUMBERS	STA	STATION		
CIP	CAPITAL IMPROVEMENTS PROGRAM	EXIST	EXISTING	NPS	NATIONAL PARK SERVICE	STD	STANDARD		
CIP	CAST IRON PIPE	EXP	EXPRESSWAY	NPT	NATIONAL PIPE THREAD	STD	STANDARD		
CIP	CLEAN-IN-PLACE	EXT	EXTENSION	NTS	NOT TO SCALE	STMH	STEAM MAINTENANCE HOLE		
CIP	CURB INLET PROTECTION	EXT	EXTERIOR	NW	NORTHWEST	SUE	SUBSURFACE UTILITY ENGINEERING		
CIPP	CURED-IN-PLACE PIPE	FB	FIRE HYDRANT	O&M	OPERATIONS AND MAINTENANCE	SURF	SURFACE		
CIR	CIRCLE	FH	FEDERAL HIGHWAY ADMINISTRATION	OC	ON CENTER	SW	SEWER		
CIR	CIRCULAR SHAPE	FHWA	FEDERAL HIGHWAY ADMINISTRATION	OD	OUTSIDE DIAMETER	SWR	SQUARE YARDS		
CKVLV	CHECK VALVE	FL	FLOOR	OF	OUTSIDE FACE	SY	SQUARE YARDS		
CL	CENTERLINE	FLG	FLANGE	OPNG	OPENING	T	TANGENT		
CLF	CHAIN LINK FENCE	FM	FORCE MAIN	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	T	TELEPHONE		
CLR	CLEAR, CLEARANCE	FO	FIBER OPTIC	OUT	OUTLET	T&B	TOP AND BOTTOM		
CLS	CLOSE	FP	FLAG POLE	OVHD	OVERHEAD	T&V	TAPPING ASSEMBLY AND VALVE		
CM	CONSTRUCTION MANAGER	FT	FOOT, FEET	PC	POINT OF CURVATURE	TC	TOP OF CURB		
CO	CLEAN OUT	FWY	FREEWAY	PCC	POINT OF COMPOUND CURVATURE	TC	TRASH CAN		
COM	COMMON	G	GAS	PCC	PORTLAND CEMENT CONCRETE	TCP	TERRA COTTA PIPE		
COMB	COMBINED	GALV	GALVANIZED	PCC	PORTLAND CEMENT CONCRETE	TCP	TRAFFIC CONTROL PLAN		
COMM	COMMUNICATIONS	GC	GRANITE CURB	PCCP	PORTLAND CEMENT CONCRETE PIPE	TEL	TELEPHONE		
CON	CONDUIT	GC&G	GRANITE CURB AND CONCRETE GUTTER	PCCP	PRESTRESSED CONCRETE CULVERT PIPE	TEMP	TEMPERATURE		
CONC	CONCRETE	GC&G	GRANITE CURB AND CONCRETE GUTTER	PCT	PERCENT	TEMP	TEMPORARY		
CONC	CONDUIT	GIS	GEOGRAPHIC INFORMATION SYSTEM	PDE	PROJECT DESIGN ENGINEER	TER	TERRACE		
CONDS	CONDUITS	GL	GROUND LAMP	PE	PLAIN END	THK	THICKNESS		
CONNECT	CONNECTED	GPS	GLOBAL POSITIONING SYSTEM	PGL	PROFILE GRADE LINE	TIC	TECHNICAL INFORMATION CENTER		
CONN	CONNECTION	GR	GRADE	PI	POINT OF INTERSECTION	TL	TRAFFIC LIGHT		
CONST	CONSTRUCTION	GRD	GROUND	PKY	PARKWAY	TO	TOP OF		
CONT	CONTACT	GV	GAS VALVE	PL	PROPERTY LINE	TOC	TOP OF CONCRETE		
CONTIN	CONTINUOUS	GV	GATE VALVE	PL	PLASTIC PIPE - NATURAL GAS	TP	TELEPHONE PEDESTAL		
CORP	CORPORATION	H	HYDRANT	PL-G	PLASTIC PIPE - NATURAL GAS	TRV#	TRAVERSE NUMBER		
		HB	HORIZONTAL BEND	PM	PARKING METER	TWZT	TRAFFIC WORK ZONE TECHNICIAN		
		HH	HAND HOLE	PM	PROJECT MANAGER	TYP	TYPICAL		
		HL	HILL	PMK	PARKING METER KIOSK	U	UNKNOWN		
		HORZ	HORIZONTAL	POC	POINT ON CURVE	UFA	URBAN FORESTRY ADMINISTRATION		
		HP	HIGH POINT	POLY	POLYMER	UGE	UNDERGROUND ELECTRIC		
		HPG	HIGH PRESSURE GAS	POT	POINT ON TANGENT	UMH	UNKNOWN MAINTENANCE HOLE		
		HTS	HEIGHTS	PPE	PERSONAL PROTECTION EQUIPMENT				

<p>NOT FOR CONSTRUCTION</p> <p>Feb-22</p> <p>DISTRICT OF COLUMBIA WATER &amp; SEWER AUTHORITY DEPARTMENT OF ENGINEERING &amp; TECHNICAL SERVICES WATER &amp; SEWER DESIGN 5000 OVERLOOK AVENUE, SW WASHINGTON D.C. 20032</p>	<p>REVISION BLOCK</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	DATE																															<p>JOB NAME: SDWMR 16B</p> <p>INDEX NO. WLR-HX02    JOB NO. HX02</p> <p>CONSTRUCTION    IN-HOUSE CONTRACT NO. 180010</p> <p>DESIGN    IN-HOUSE DCFA NO. 1-180010</p> <p>CADD FILE: HX02_16B_GS.DWG</p>	<p>PRE-FINAL SUBMITTAL</p> <p>WATER MAIN REPLACEMENT</p> <p><b>ABBREVIATIONS &amp; ACRONYMS</b></p> <p>CIVIL</p> <p>LOCATION: 2ND &amp; PARKER</p> <p>GENERAL SHEET</p> <p>SCALE: N/A    DRAWN: KDT</p> <p>DATE: 24 February 2022    CHECKED: YK</p>
NO.	DESCRIPTION	DATE																																		

<p>10 INCHES</p>	<p>G-6</p>
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Example - G – Water Fittings Key Notes Sheet (Refer to Section 5.6 & Section 10)

DESIGN CODED NOTES		
PART DESCRIPTION	W NOTE	DETAIL
<b>DUCTILE IRON BENDS</b>		
11.25" - 3" BEND	W000	
11.25" - 4" BEND	W001	
11.25" - 6" BEND	W002	
11.25" - 8" BEND	W003	
11.25" - 12" BEND	W004	
11.25" - 16" BEND	W005	
11.25" - 20" BEND	W006	
11.25" - 24" BEND	W007	
22.5" - 3" BEND	W010	
22.5" - 4" BEND	W011	
22.5" - 6" BEND	W012	
22.5" - 8" BEND	W013	
22.5" - 12" BEND	W014	
22.5" - 16" BEND	W015	
22.5" - 20" BEND	W016	
22.5" - 24" BEND	W017	
45" - 3" BEND	W020	
45" - 4" BEND	W021	
45" - 6" BEND	W022	
45" - 8" BEND	W023	
45" - 12" BEND	W024	
45" - 16" BEND	W025	
45" - 20" BEND	W026	
45" - 24" BEND	W027	
90" - 3" BEND	W030	
90" - 4" BEND	W031	
90" - 6" BEND	W032	
90" - 8" BEND	W033	
90" - 12" BEND	W034	
90" - 16" BEND	W035	
90" - 20" BEND	W036	
90" - 24" BEND	W037	
<b>DUCTILE IRON TEES</b>		
3" x 3" TEE	W040	
4" x 3" TEE	W041	
4" x 4" TEE	W042	
6" x 3" TEE	W043	
6" x 4" TEE	W044	
6" x 6" TEE	W045	
8" x 4" TEE	W046	
8" x 6" TEE	W047	
8" x 8" TEE	W048	
12" x 4" TEE	W049	

DESIGN CODED NOTES		
PART DESCRIPTION	W NOTE	DETAIL
12" x 6" TEE	W050	
12" x 8" TEE	W051	
12" x 12" TEE	W052	
16" x 6" TEE	W053	
16" x 8" TEE	W054	
16" x 12" TEE	W055	
20" x 6" TEE	W056	
20" x 8" TEE	W057	
20" x 12" TEE	W058	
<b>DUCTILE IRON REDUCERS</b>		
4" x 3" REDUCER	W060	
6" x 3" REDUCER	W061	
6" x 4" REDUCER	W062	
8" x 4" REDUCER	W063	
8" x 6" REDUCER	W064	
12" x 4" REDUCER	W065	
12" x 6" REDUCER	W066	
12" x 8" REDUCER	W067	
<b>DUCTILE IRON SLEEVES</b>		
3" SLEEVE (LONG)	W070	
3" SLEEVE (SHORT)	W070S	
4" SLEEVE (LONG)	W071	
4" SLEEVE (SHORT)	W071S	
6" SLEEVE (LONG)	W072	
6" SLEEVE (SHORT)	W072S	
8" SLEEVE (LONG)	W073	
8" SLEEVE (SHORT)	W073S	
12" SLEEVE (LONG)	W074	
12" SLEEVE (SHORT)	W074S	
16" SLEEVE (LONG)	W075	
16" SLEEVE (SHORT)	W075S	
20" SLEEVE (LONG)	W076	
20" SLEEVE (SHORT)	W076S	
24" SLEEVE (LONG)	W077	
24" SLEEVE (SHORT)	W077S	
3" SLEEVE (TRANSITION)	W078	
4" SLEEVE (TRANSITION)	W079	
6" SLEEVE (TRANSITION)	W080	
8" SLEEVE (TRANSITION)	W081	
12" SLEEVE (TRANSITION)	W082	
<b>VALVES</b>		
4" GATE VALVE	W090	
6" GATE VALVE	W091	
8" GATE VALVE	W092	

DESIGN CODED NOTES		
PART DESCRIPTION	W NOTE	DETAIL
12" GATE VALVE	W093	
<b>FIRE HYDRANTS</b>		
FIRE HYDRANT	W099	WD008
<b>DUCTILE IRON CAPS</b>		
3" CAP	W100	
4" CAP	W101	
6" CAP	W102	
8" CAP	W103	
12" CAP	W104	
<b>DUCTILE IRON OFFSETS</b>		
4" x 6" OFFSET	W110	
4" x 12" OFFSET	W111	
4" x 18" OFFSET	W112	
6" x 6" OFFSET	W113	
6" x 12" OFFSET	W114	
6" x 18" OFFSET	W115	
8" x 6" OFFSET	W116	
8" x 12" OFFSET	W117	
8" x 18" OFFSET	W118	
12" x 6" OFFSET	W119	
12" x 12" OFFSET	W120	
12" x 18" OFFSET	W121	
<b>STANDARD THRUST BLOCKS</b>		
6" IN-LINE THRUST BLOCK	WD007	WD007
8" IN-LINE THRUST BLOCK	WD007	WD007
12" IN-LINE THRUST BLOCK	WD007	WD007
<b>STANDARD BLOWOFFS</b>		
AIR BLOWOFF (IN-LINE)	WD011	WD011
6" DRAIN BLOWOFF	WD012	WD012
6" AIR BLOWOFF	WD012	WD012
<b>BLOWOFFS</b>		
2" AIR BLOWOFF (DEAD END)	WD010	WD010

Water Fittings and Coded Notes  
Refer to Section 9.5.7

CADD FILE: C:\Users\jshah\OneDrive\Documents\DC\Water\16B\2nd & Parker\2021\DWG\16B\_GS.dwg 2021.02.24 08:52 AM

NOT FOR CONSTRUCTION  
Feb-22



DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING  
& TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

JOB NAME: SDWMR 16B	
INDEX NO. WLR-HX02	JOB NO. HX02
CONSTRUCTION	<input type="checkbox"/> IN-HOUSE CONTRACT NO. 180010
DESIGN	<input checked="" type="checkbox"/> IN-HOUSE DCFA NO. I-180010
CADD FILE: HX02_16B_GS.DWG	

PRE-FINAL SUBMITTAL

WATER MAIN REPLACEMENT  
**W NOTES (APPURTANANCES & FITTINGS)**

CIVIL  
LOCATION: 2ND & PARKER  
GENERAL SHEET

SCALE: N/A  
DATE: 24 February 2022  
DRAWN: KDT  
CHECKED: YK

# SCALE 10 INCHES G-7

**Example - G – Sewer Rehabilitation Key Notes & Rehabilitation Methods Detail Sheet (Refer to Section 5.9 & Section 11.9.4)**

**CODED NOTES**

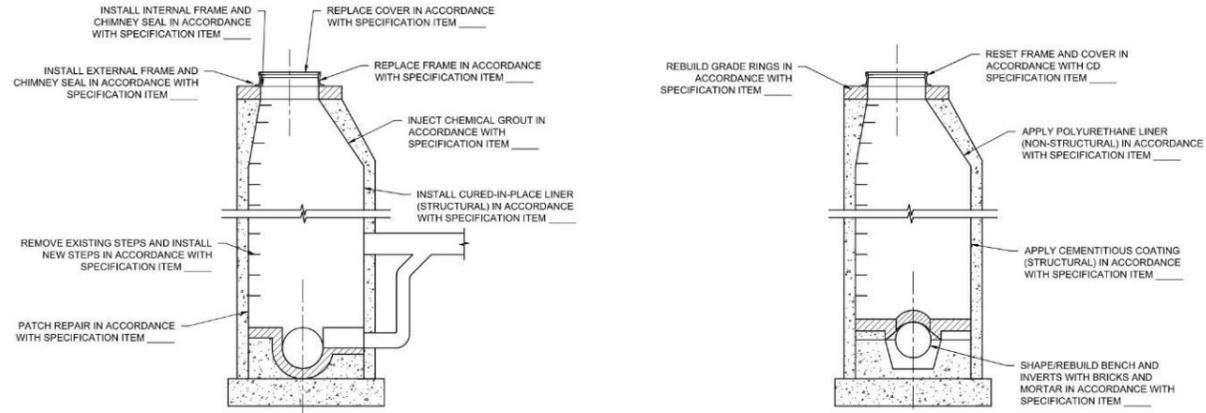
1. FOR OPEN CUT SEWER POINT REPAIR, SEE PIPE POINT REHABILITATION SCHEDULE.
2. FOR OPEN CUT LATERAL CONNECTION POINT REPAIR, SEE LATERAL REHABILITATION SCHEDULE.
3. INSTALL EITHER CIP LATERAL CONNECTION OR STRUCTURAL LATERAL INJECTION SEALING, SEE LATERAL REHABILITATION SCHEDULE.
4. INSTALL NEW MAINTENANCE HOLE, SEE NEW MAINTENANCE HOLE SCHEDULE.
5. INJECT RESIN AT HOLE/BREAK/FRACTURE, SEE PIPE POINT REHABILITATION SCHEDULE.
6. FOR LINING, USE EITHER BLINDSHOT OR MAN ENTRY.
7. LATERAL HEAVY CLEANING.
8. REMOVE MAINTENANCE HOLE COVER, FRAME, CHIMNEY AND CONE AS REQUIRED FOR CIPP LINING, FURNISH AND INSTALL NEW MAINTENANCE HOLE COVER, FRAME, CHIMNEY AND CONE AS REQUIRED AFTER LINING.
9. REPLACE MAINTENANCE HOLE
10. EXTERNAL POINT REPAIR
11. NO ACCESS INTO SEWER FROM GROUND LEVEL.
12. STORM SEWER DISCHARGE STRUCTURE.
13. REHABILITATE SEWER JUNCTION. NO EXISTING MAINTENANCE HOLE ACCESS.
14. CAP EXISTING PIPE.
15. TRIM INTRUDING LATERAL PRIOR TO REHABILITATING SEWER.
16. FOR OPEN CUT LATERAL POINT REPAIR, SEE SHEETS \_\_\_\_
17. FOR SPECIAL LINING, SEE SHEET \_\_\_\_
18. REMOVE GREASE/ENCrustATION FROM ORIGINAL SEWER WALL BEFORE REHABILITATING PIPE.
19. INSTALL CIP LATERAL CONNECTION.
20. INTERNAL LATERAL CONNECTION POINT REPAIR.
21. INSTALL STRUCTURAL LATERAL RECONSTRUCTION SEAL.
22. NO TRUCK ACCESS ON PARK LAND
23. INSTALL NEW PIPE.
24. PERFORM EXCAVATED POINT REPAIR
25. ABANDON SEWER / MAINTENANCE HOLE.
26. EXISTING CURVED SEWER IS MADE OF A CONSTANT SWEEP WITH NO ANGLE POINTS.
27. EXISTING CURVED SEWER IS MADE OF STRAIGHT SEGMENTS AND ANGLE POINTS OF VARYING DEGREES.
28. EXISTING PIPE SEGMENT IS UNDER A BUILDING AND REQUIRES A SURCHARGED LOAD WHEN DETERMINING CIPP WALL THICKNESS.
29. EXISTING PIPE CHANGES SHAPE, SIZE AND/OR MATERIAL.
30. CCTV SHOWS HEAVY INFILTRATION.
31. GROUT PIPE.
32. ABANDON EXTERIOR DROP. LINE THROUGH THE MAIN LINE. INSTALL INTERIOR DROP PIPE PER DETAIL S-25.04
33. RESTORE LATERAL CONNECTION. SEE LATERAL SCHEDULE DRAWINGS FOR SPECIFIC LOCATIONS.
34. REMOVE TAP ROOT BY MANUAL MEANS. APPLY ROOT INHIBITOR ONLY TO CAVITY LEFT BY ROOT REMOVAL. FILL CAVITY WITH NON-SHRINK GROUT.
35. REMOVE TAP ROOT. APPLY ROOT INHIBITOR ONLY TO CAVITY LEFT BY ROOT REMOVAL. FILL CAVITY WITH NON-SHRINK GROUT.
36. PREVENT STYRENE DISCHARGE IN SEPARATE STORM SEWERS.
37. EXISTING PIPE HAS 24" X 24" OPENING CONNECTING TO ADJACENT SEWER.
38. INSTALL CONTINUOUS CIPP LINER THROUGH MAINTENANCE HOLE. INJECT CHEMICAL GROUT BETWEEN PIPE AND TROUGH.
39. EXISTING SEWER HAS SEVERAL ANJULAR JOINTS.
40. ABANDON FLUSHING CHAMBER. REMOVE PIPING AND WATER SPIGOTS. FILL OPENING WITH CONCRETE AND BULKHEADS AS NEEDED.
41. PATCH HOLE WITH NON-SHRINK GROUT.
42. ABANDON WATER SPIGOT / HOSE.
43. INJECT CHEMICAL GROUT IN CHANNEL.
44. ABANDON INCOMING PIPE FROM WEST.
45. REPLACE CAP.

**MAINTENANCE HOLE REHAB LEGEND**

- A. NO ACTION (ACCESS MAINTENANCE HOLE)
- B. LOCATE MAINTENANCE HOLE AND SUBMIT MAINTENANCE HOLE ASSESSMENT CERTIFICATION PROGRAM (MACP) LEVEL 2 INSPECTION TO ENGINEER
- C. REMOVE DEBRIS
- D. REMOVE EXISTING STEPS AND INSTALL NEW STEPS
- E. INJECT CHEMICAL GROUT
- F. SHAPE/REBUILD BENCH AND INVERTS WITH BRICKS AND MORTAR.
- G. PATCH REPAIR
- H. REPLACE FRAME
- I. REPLACE COVER
- J. INSTALL INTERNAL FRAME AND CHIMNEY SEAL
- K. INSTALL EXTERNAL FRAME AND CHIMNEY SEAL
- L. RESET FRAME AND COVER
- M. REBUILD GRADE RINGS (CHIMNEY)
- N. APPLY CEMENTITIOUS COATING (STRUCTURAL)
- O. APPLY POLYURETHANE LINER (NON-STRUCTURAL)
- P. INSTALL CURED-IN-PLACE LINER (STRUCTURAL)
- Q. ABANDON MAINTENANCE HOLE
- R. REPLACE EXISTING MAINTENANCE HOLE WITH NEW PRECAST MAINTENANCE HOLE IN ACCORDANCE WITH SPECIFICATION ITEM \_\_\_\_
- S. INSTALL NEW PRECAST MAINTENANCE HOLE IN ACCORDANCE WITH SPECIFICATION ITEM \_\_\_\_
- T. INSTALL NEW DOGHOUSE MAINTENANCE HOLE IN ACCORDANCE WITH SPECIFICATION ITEM \_\_\_\_
- U. REMOVE LAMPHOLE AND INSTALL NEW PRECAST MAINTENANCE HOLE IN ACCORDANCE WITH SPECIFICATION ITEM \_\_\_\_
- V. APPLY CHEMICAL ROOT TREATMENT
- W. OTHER

**PIPE SHAPE LEGEND**

- C. CIRCULAR
- H. HORSESHOE (ROUNDED TOP, FLAT BOTTOM, VERTICAL SIDES)
- E. ELLIPSE (ROUNDED TOP AND BOTTOM, VERTICAL SIDES)
- G. EGG



**MAINTENANCE HOLE REHAB DETAIL**

**PIPE REHAB LEGEND**

1. APPLY CHEMICAL ROOT TREATMENT
2. CLEAN-HEAVY
3. SUBMIT CCTV INSPECTION DVD AND PACP CODING REPORT TO ENGINEER
4. INSTALL CIPP LINING
5. EXCAVATED POINT REPAIR (SEE CODED NOTES)
6. OTHER (SEE CODED NOTES)
7. INSTALL GEOPOLYMER LINER
8. EXTERNAL POINT REPAIR

**PRELIMINARY SUBMITTAL**

SEWER REHABILITATION 10  
**CODED NOTES AND REHAB LEGENDS**

**CIVIL**

SCALE: 1" = 5'  
DATE: 4 May 2022  
DRAWN: JKP  
CHECKED: CBS, MLR

G-9

REVISION BLOCK		
NO.	DESCRIPTION	DATE

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DESIGN	IN-HOUSE DCFA NO. I-000000
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10 INCHES

SCALE

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NOT FOR CONSTRUCTION  
May-22

DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

Example - G - Civil Water & Sewer Standard Details Sheets (Refer to Section 5.7)

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**CONCRETE VALVE CASING**

WOOD01

SHEET 1 OF 1

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**CONCRETE THRUST BLOCK 12 INCH DIAMETER AND SMALLER WATER MAINS**

WOOD07

SHEET 1 OF 4

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

BRANCH OF TEE OR PIPE DIA.	BEND TYPE	W	H <sub>B</sub>	H <sub>T</sub>	G	REINF. (E.W.)
6"	11.25"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	22.5"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	33.75"	11.25"	11.25"	0.8"	1.0"	#4 @12"
8"	11.25"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	22.5"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	33.75"	11.25"	11.25"	0.8"	1.0"	#4 @12"
12"	11.25"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	22.5"	11.25"	11.25"	0.8"	1.0"	#4 @12"
	33.75"	11.25"	11.25"	0.8"	1.0"	#4 @12"

**CONCRETE THRUST BLOCK 12 INCH DIAMETER AND SMALLER WATER MAIN**

WOOD07

SHEET 2 OF 4

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**IN LINE THRUST BLOCK 12 INCH DIAMETER AND SMALLER WATER MAINS**

WOOD07

SHEET 3 OF 4

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

PIPE SIZE	W	D	H <sub>B</sub>	H	REINF. (E.W.)
6"	4' - 7"	1' - 0"	3' - 7"	6' - 1"	#4 @12"
8"	4' - 9"	1' - 0"	3' - 9"	6' - 3"	#4 @10"
12"	5' - 0"	2' - 0"	5' - 0"	7' - 0"	#4 @8"
8" x 6"	3' - 8"	1' - 0"	3' - 2"	6' - 2"	#4 @12"
12" x 8"	4' - 8"	1' - 0"	3' - 9"	6' - 8"	#4 @10"
12" x 6"	4' - 9"	1' - 0"	3' - 9"	6' - 9"	#4 @10"

**IN LINE THRUST BLOCK 12 INCH DIAMETER AND SMALLER WATER MAINS**

WOOD07

SHEET 4 OF 4

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**FIRE HYDRANT INSTALLATION NTS**

WOOD08

SHEET 1 OF 1

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**DEAD END 2" AIR/DRAIN BLOW-OFF FOR 12" DIAMETER & SMALLER WATER MAINS**

WOOD10

SHEET 1 OF 1

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY DETAIL**

**2" AIR/DRAIN BLOW-OFF**

WOOD11

SHEET 1 OF 1

NOT FOR CONSTRUCTION Feb-22

DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY  
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WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

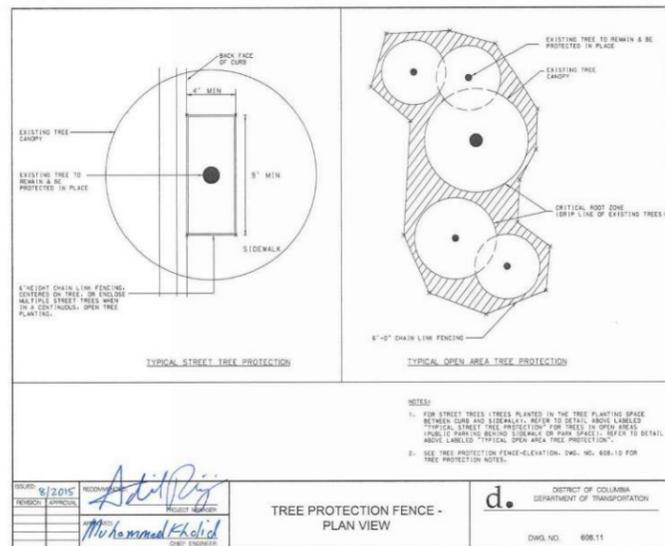
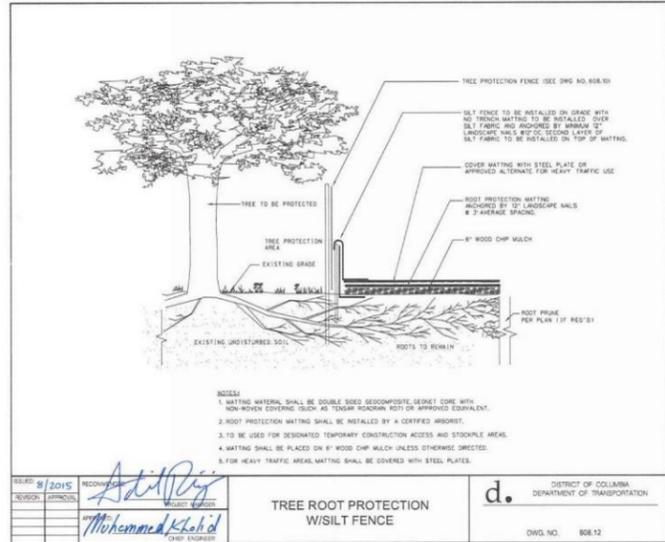
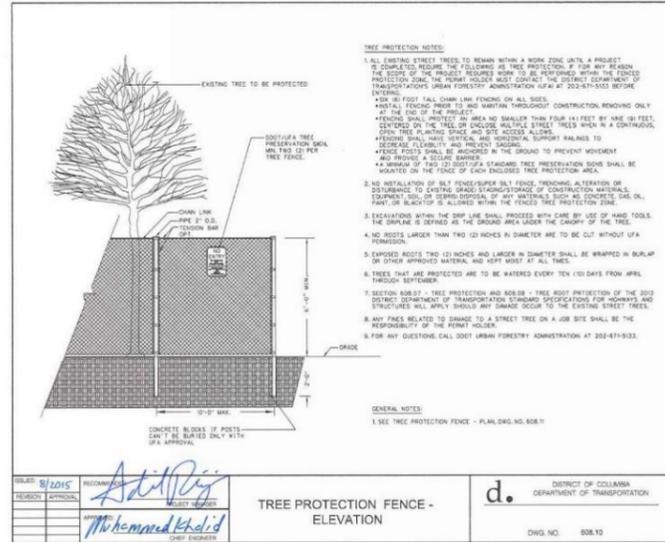
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DESIGN	<input checked="" type="checkbox"/> IN-HOUSE DCFA NO. 1-180010	LOCATION: 2ND & PARKER	
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	DATE: 24 February 2022	CHECKED: YK	

G-9



Example - GE - Sediment & Erosion Control Standard(s) Detail(s) Sheet (Refer to Section 5.7)



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Feb-22

DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY  
 DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES  
 WATER & SEWER DESIGN  
 5000 OVERLOOK AVENUE, SW  
 WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

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PRE-FINAL SUBMITTAL

WATER MAIN REPLACEMENT  
**DDOT STANDARD DETAILS (1 OF 1)**

**CIVIL**

LOCATION: DIX ST NE

EROSION & SEDIMENT CONTROL

SCALE: N/A  
 DATE: 24 February 2022  
 DRAWN: PH  
 CHECKED: YK

GE-2.6



Example – C - Individual Civil Sewer Project Index Sheet (Refer to Section 5.8)

Sheet List Table	
Sheet Number	Sheet Title
G-1	COVER SHEET
G-2	SHEET INDEX
G-3	LOCATION MAP - CHEVY CHASE
G-4	LOCATION MAP - KENILWORTH
G-5	LOCATION MAP - BROAD BRANCH
G-6	LEGENDS
G-7	ABBREVIATIONS AND ACRONYMS
G-8	GENERAL NOTES
G-9	CODED NOTES AND REHAB LEGENDS
C-1.0	CHEVY CHASE SHEET LOCATIONS
CD-1.1	CHEVY CHASE POINT REPAIR
CD-1.2	CHEVY CHASE POINT REPAIR
CD-1.3	CHEVY CHASE POINT REPAIR
CD-1.4	CHEVY CHASE POINT REPAIR
CD-1.5	CHEVY CHASE POINT REPAIR
CD-1.6	CHEVY CHASE POINT REPAIR
CD-1.7	CHEVY CHASE POINT REPAIR
CT-1.1	SEWER LATERAL REHAB SCHEDULE
C-2.0	KENILWORTH SHEET LOCATIONS
C-2.1	KENILWORTH
C-2.2	KENILWORTH
C-2.3	KENILWORTH
C-2.4	KENILWORTH
C-2.5	KENILWORTH
C-2.6	KENILWORTH
C-2.7	KENILWORTH
C-2.8	KENILWORTH
C-2.9	KENILWORTH
C-2.10	KENILWORTH
C-2.11	KENILWORTH
C-2.12	KENILWORTH
C-2.13	KENILWORTH
C-2.14	KENILWORTH
C-2.15	KENILWORTH
C-2.16	KENILWORTH
C-2.17	KENILWORTH
C-2.18	KENILWORTH
C-2.19	KENILWORTH

C-2.20	KENILWORTH
C-2.21	KENILWORTH
C-2.22	KENILWORTH
C-2.23	KENILWORTH
C-2.24	KENILWORTH
C-2.25	KENILWORTH
CD-2.1	KENILWORTH POINT REPAIR
CD-2.2	KENILWORTH POINT REPAIR
CD-2.3	KENILWORTH POINT REPAIR
CD-2.4	KENILWORTH POINT REPAIR
CD-2.5	KENILWORTH POINT REPAIR
CD-2.6	KENILWORTH POINT REPAIR
CD-2.7	KENILWORTH POINT REPAIR
CD-2.8	KENILWORTH POINT REPAIR
CD-2.9	KENILWORTH POINT REPAIR
CD-2.10	KENILWORTH POINT REPAIR
CT-2.1	SEWER LATERAL REHAB SCHEDULE
C-3.0	BROAD BRANCH SHEET LOCATIONS
C-3.1	BROAD BRANCH
C-3.2	BROAD BRANCH
C-3.3	BROAD BRANCH
C-3.4	BROAD BRANCH
CT-3.1	SEWER LATERAL REHAB SCHEDULE

Sheet Index  
Refer to Section 9.5.2

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May-22



DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING  
& TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

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INDEX NO. CML-JX01	JOB NO. JX01
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DESIGN	IN-HOUSE DCFA NO. <input checked="" type="checkbox"/> I-000000
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PRELIMINARY SUBMITTAL

SEWER REHABILITATION 10  
**SHEET INDEX**

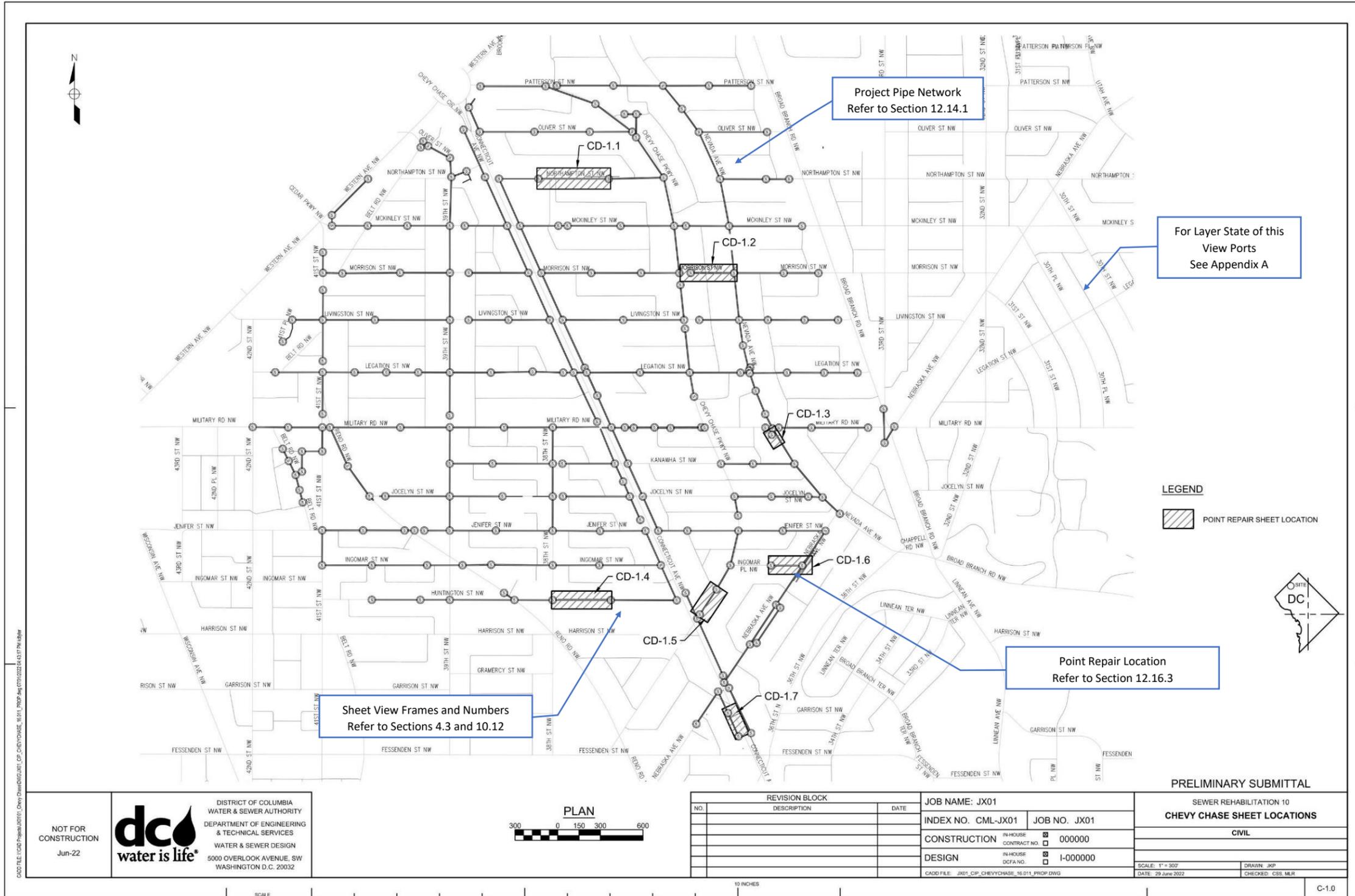
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GENERAL SHEET

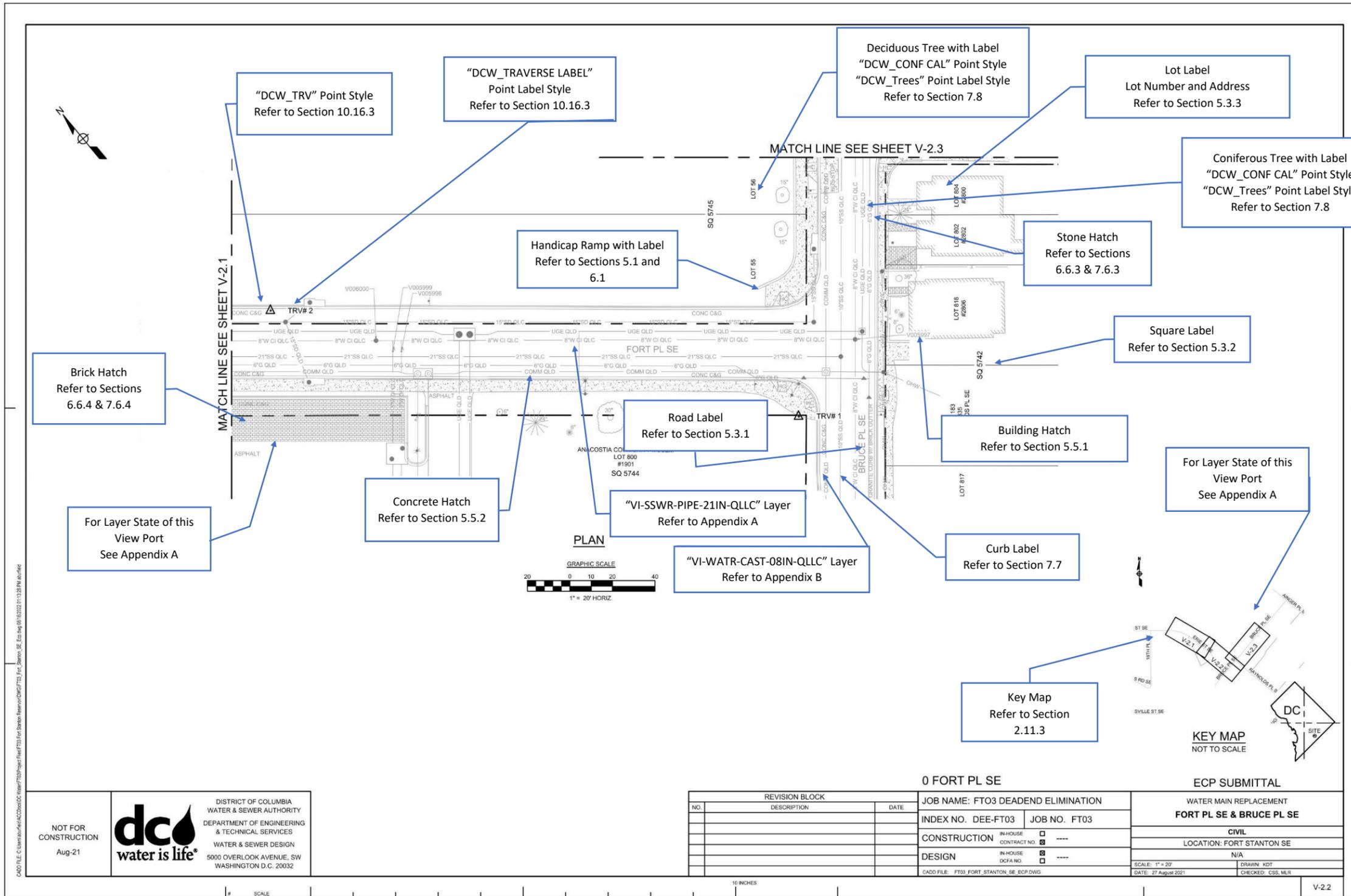
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DRAWN: JKP  
CHECKED: CBS, MLR

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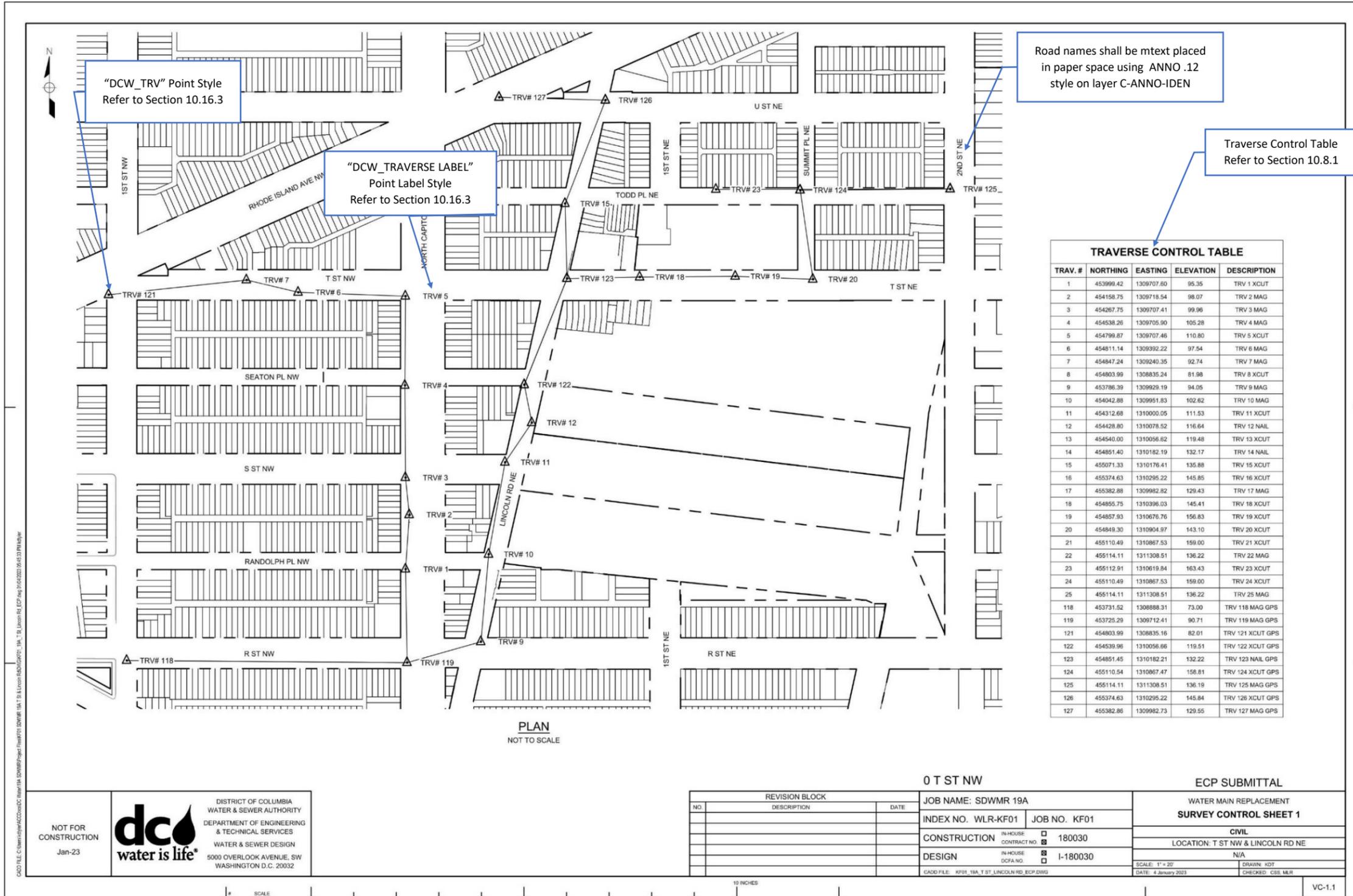
Example – C - Individual Civil Sewer Project Location Sheet (Refer to Section 11.9.5)



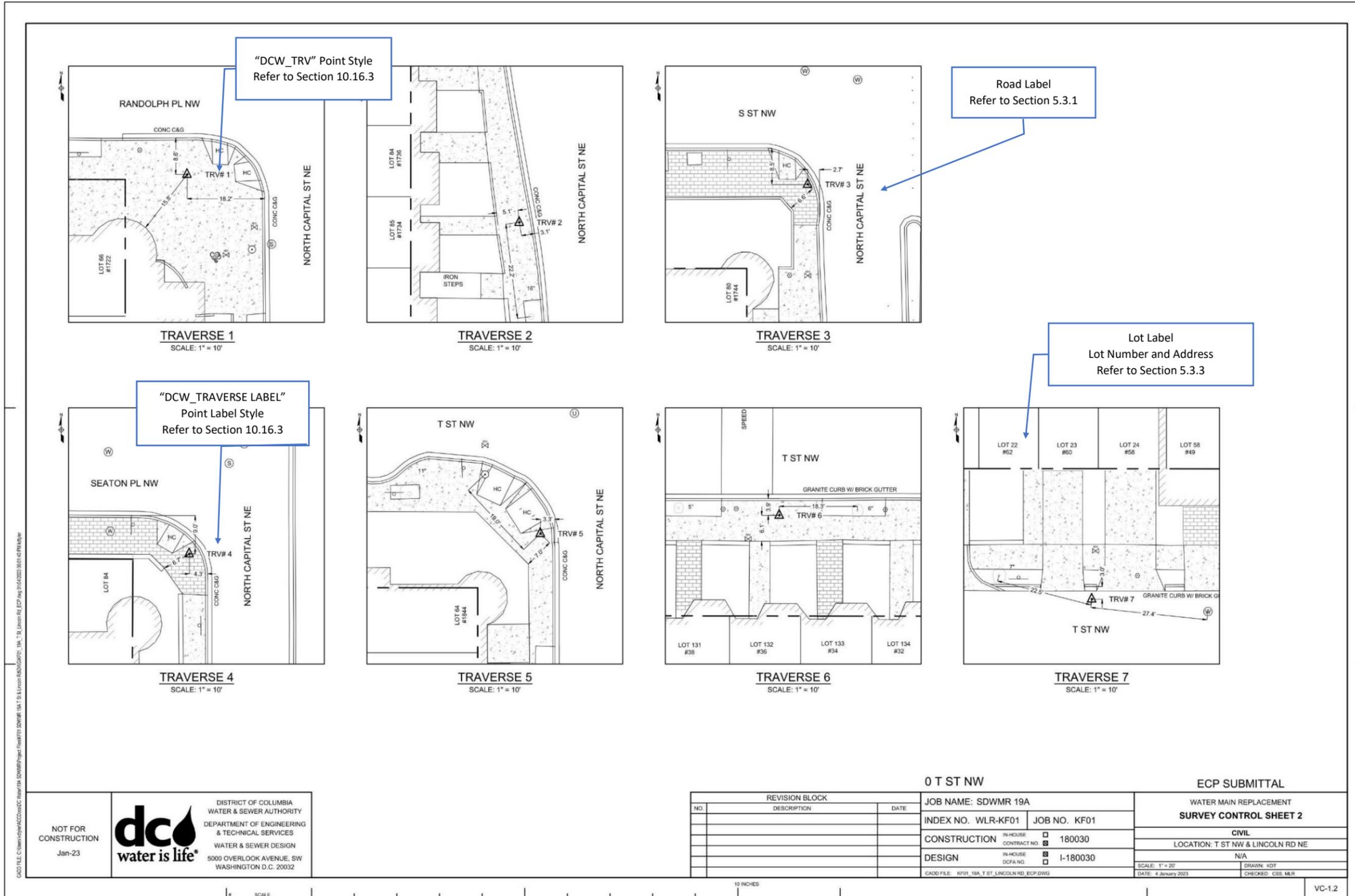
Example – V - Sheet – Base Mapping and Existing Conditions Sheet (Refer to Section 7 & Section 10)



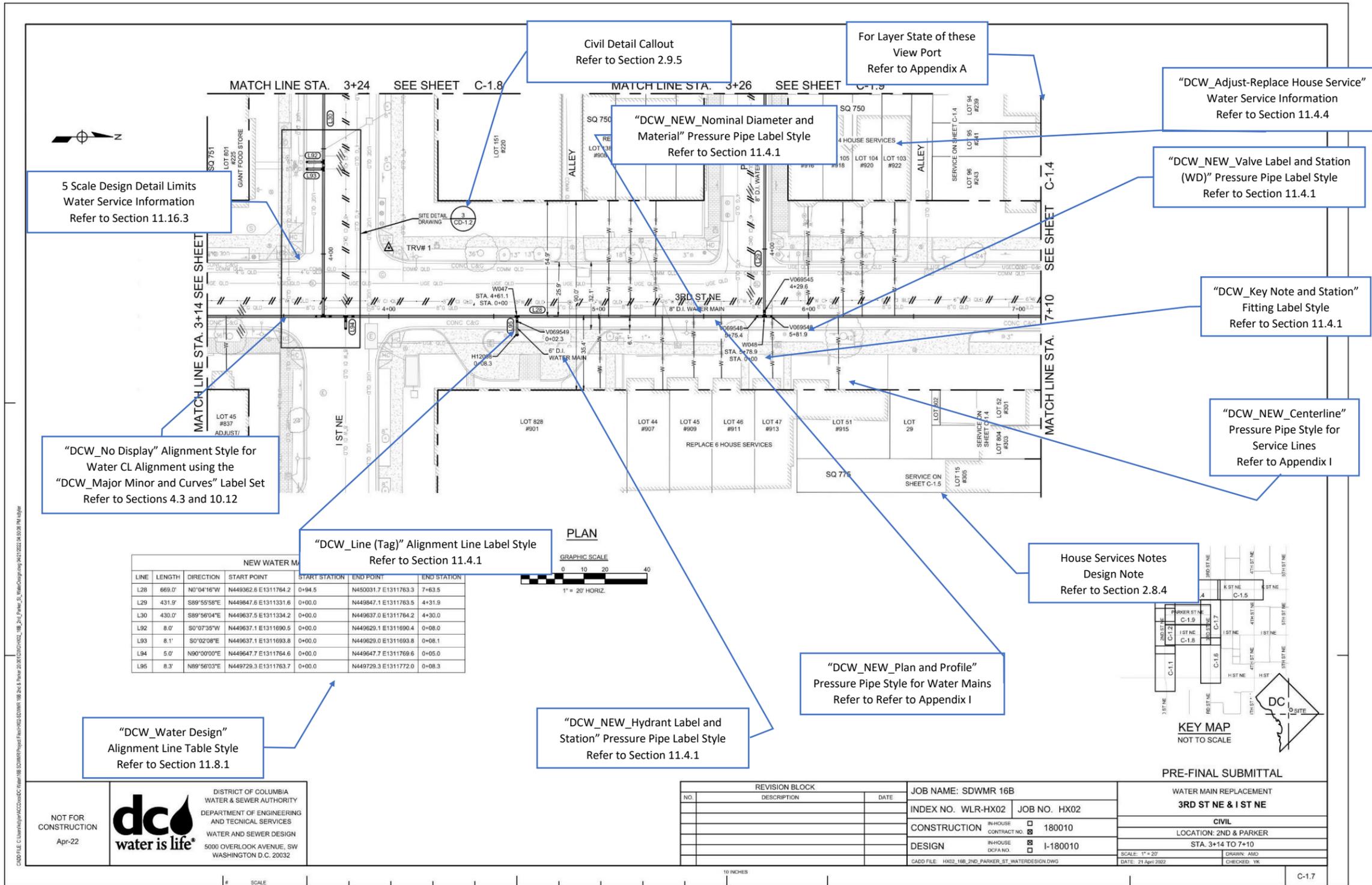
Example - VC – Survey Control Sheet 1 (Refer to Section 10)



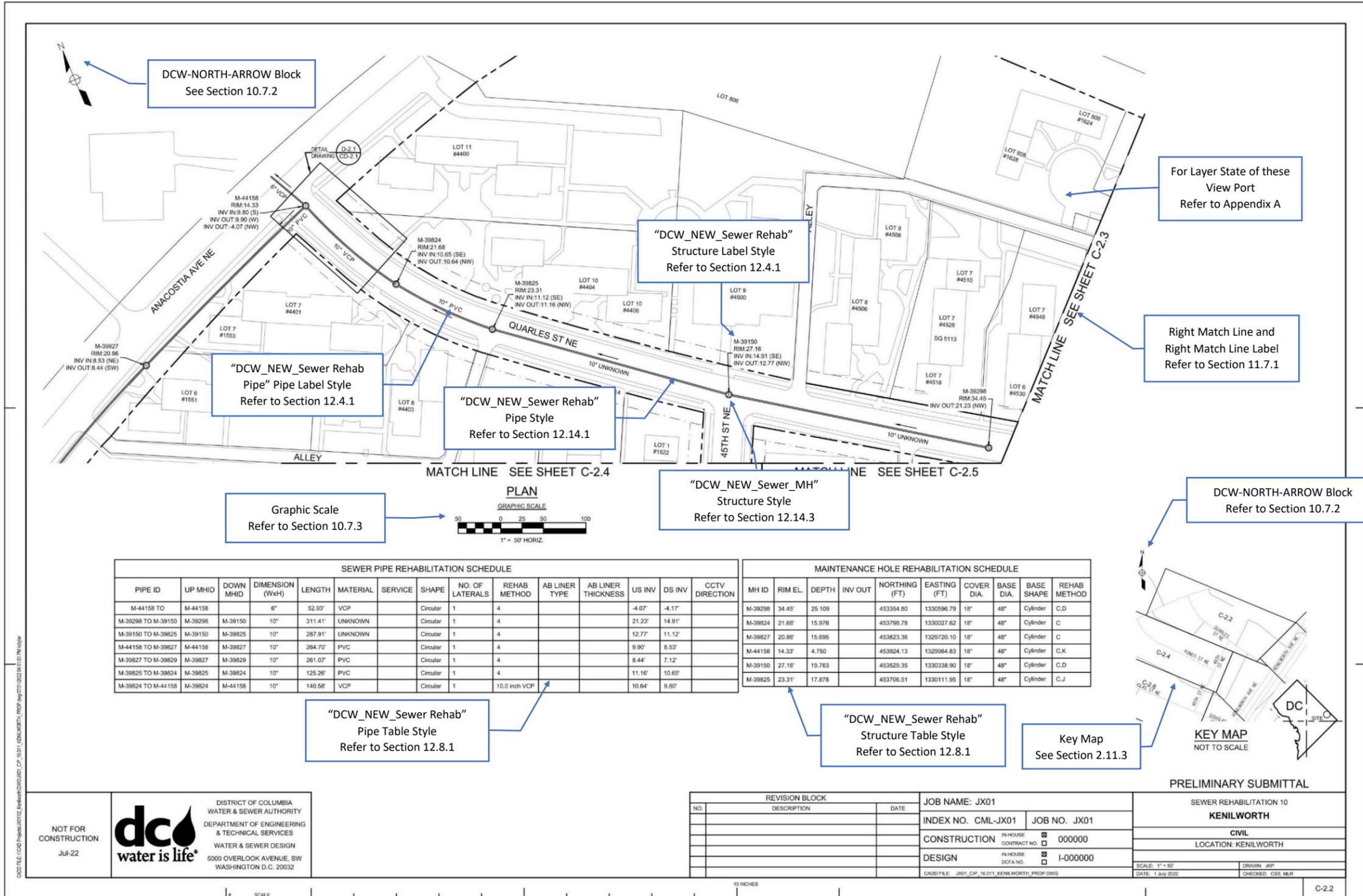
Example - VC – Survey Control Sheet 2 (Refer to Section 10)



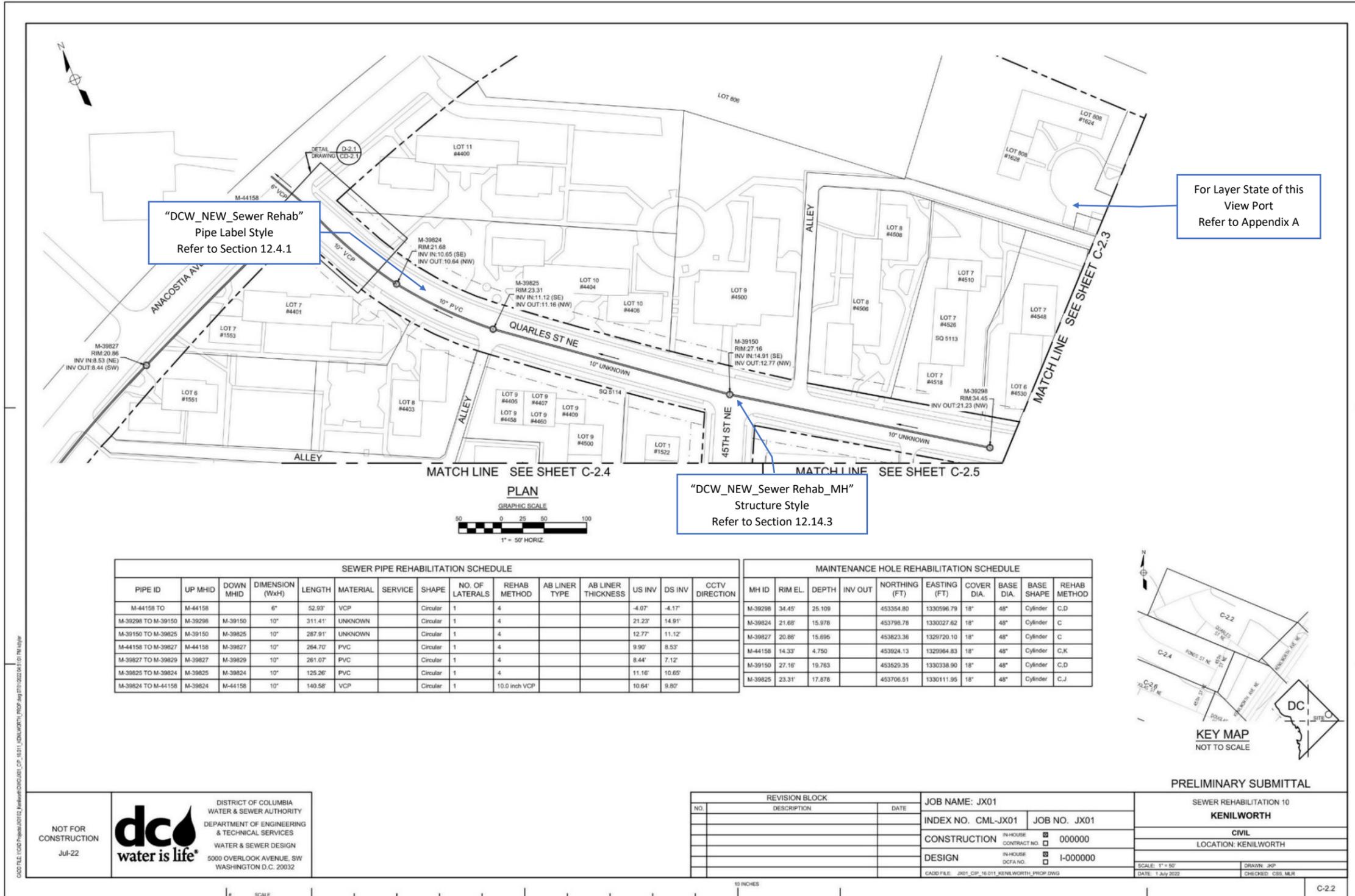
Example - C – Civil Water Design Sheet (Refer to Section 11)



Example – S – Civil Sewer Rehabilitation Sheet (Refer to Section 12)



Example – S – Civil Sewer Rehabilitation Sheet (Refer to Section 12.9.4)



SEWER PIPE REHABILITATION SCHEDULE														
PIPE ID	UP MHID	DOWN MHID	DIMENSION (WxH)	LENGTH	MATERIAL	SERVICE	SHAPE	NO. OF LATERALS	REHAB METHOD	AB LINER TYPE	AB LINER THICKNESS	US INV	DS INV	CCTV DIRECTION
M-44158 TO	M-44158		6"	52.93'	VCP		Circular	1	4			-4.07'	-4.17'	
M-39298 TO M-39150	M-39298	M-39150	10"	311.41'	UNKNOWN		Circular	1	4			21.23'	14.91'	
M-39150 TO M-39825	M-39150	M-39825	10"	287.91'	UNKNOWN		Circular	1	4			12.77'	11.12'	
M-44158 TO M-39827	M-44158	M-39827	10"	264.70'	PVC		Circular	1	4			9.90'	8.53'	
M-39827 TO M-39829	M-39827	M-39829	10"	261.07'	PVC		Circular	1	4			8.44'	7.12'	
M-39825 TO M-39824	M-39825	M-39824	10"	125.26'	PVC		Circular	1	4			11.16'	10.65'	
M-39824 TO M-44158	M-39824	M-44158	10"	140.58'	VCP		Circular	1	10.0 inch VCP			10.64'	9.80'	

MAINTENANCE HOLE REHABILITATION SCHEDULE												
MH ID	RIM EL.	DEPTH	INV OUT	NORTHING (FT)	EASTING (FT)	COVER DIA.	BASE DIA.	BASE SHAPE	REHAB METHOD			
M-39298	34.45'	25.109'		453354.80	1330596.79	18"	48"	Cylinder	C.D			
M-39824	21.68'	15.978'		453798.78	1330027.62	18"	48"	Cylinder	C			
M-39827	20.86'	15.695'		453823.36	1329720.10	18"	48"	Cylinder	C			
M-44158	14.33'	4.750'		453924.13	1329964.83	18"	48"	Cylinder	C.K			
M-39150	27.16'	19.763'		453529.35	1330338.90	18"	48"	Cylinder	C.D			
M-39825	23.31'	17.878'		453706.51	1330111.95	18"	48"	Cylinder	C.J			



PRELIMINARY SUBMITTAL

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Jul-22

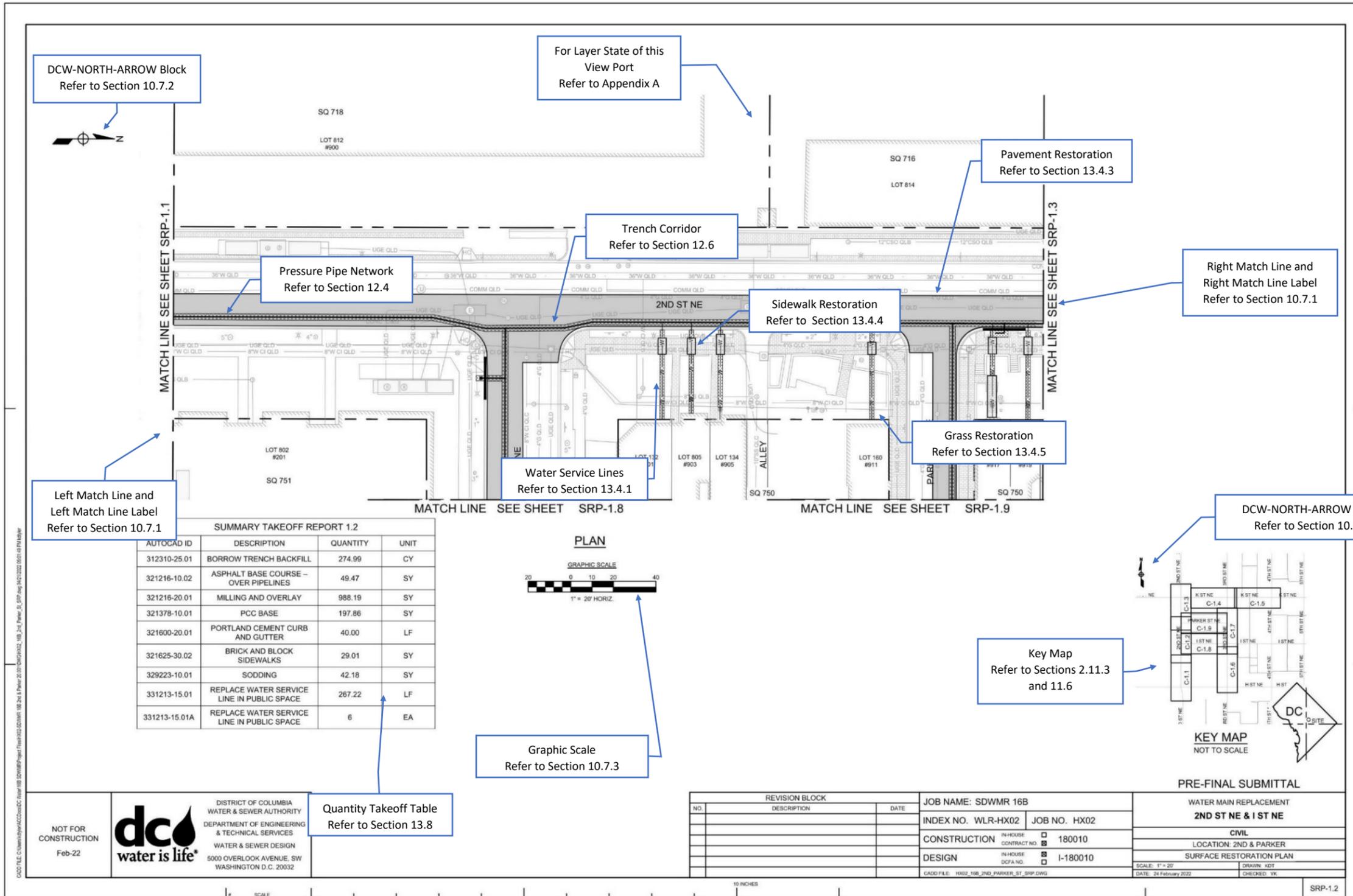
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WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

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INDEX NO. CML-JX01	JOB NO. JX01
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DESIGN	IN-HOUSE DCFA NO. I-000000
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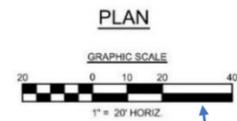
SEWER REHABILITATION 10	
KENILWORTH	
CIVIL	
LOCATION: KENILWORTH	
SCALE: 1" = 50'	DRAWN: JRP
DATE: 1 July 2022	CHECKED: CBS MLR

Example - SRP - Surface Restoration Sheet (Refer to Section 13)



SUMMARY TAKEOFF REPORT 1.2

AUTOCAD ID	DESCRIPTION	QUANTITY	UNIT
312310-25.01	BORROW TRENCH BACKFILL	274.99	CY
321216-10.02	ASPHALT BASE COURSE - OVER PIPELINES	49.47	SY
321216-20.01	MILLING AND OVERLAY	988.19	SY
321378-10.01	PCC BASE	197.86	SY
321600-20.01	PORTLAND CEMENT CURB AND GUTTER	40.00	LF
321625-30.02	BRICK AND BLOCK SIDEWALKS	29.01	SY
329223-10.01	SODDING	42.18	SY
331213-15.01	REPLACE WATER SERVICE LINE IN PUBLIC SPACE	267.22	LF
331213-15.01A	REPLACE WATER SERVICE LINE IN PUBLIC SPACE	6	EA

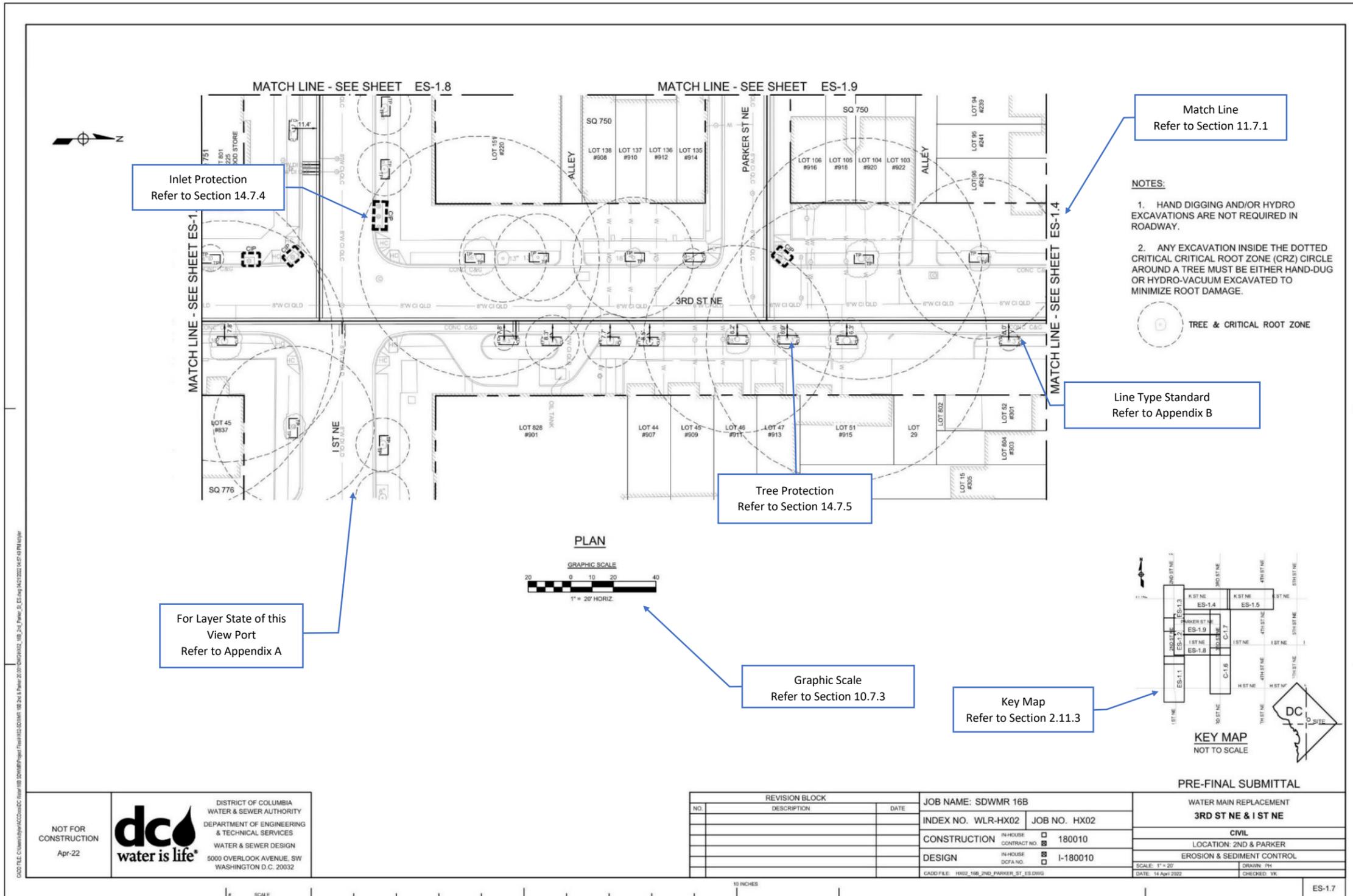


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DESIGN	<input checked="" type="checkbox"/> IN HOUSE DCFA NO. 1-180010
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WATER MAIN REPLACEMENT	
2ND ST NE & I ST NE	
CIVIL	
LOCATION: 2ND & PARKER	
SURFACE RESTORATION PLAN	
SCALE: 1" = 20'	DRAWN: KDT
DATE: 24 February 2022	CHECKED: YK

Example - ES - Erosion and Sediment Control Sheet (Refer to Section 14)



Match Line  
Refer to Section 11.7.1

- NOTES:**
- HAND DIGGING AND/OR HYDRO EXCAVATIONS ARE NOT REQUIRED IN ROADWAY.
  - ANY EXCAVATION INSIDE THE DOTTED CRITICAL ROOT ZONE (CRZ) CIRCLE AROUND A TREE MUST BE EITHER HAND-DUG OR HYDRO-VACUUM EXCAVATED TO MINIMIZE ROOT DAMAGE.



Line Type Standard  
Refer to Appendix B

Tree Protection  
Refer to Section 14.7.5

Inlet Protection  
Refer to Section 14.7.4

For Layer State of this  
View Port  
Refer to Appendix A



Graphic Scale  
Refer to Section 10.7.3

Key Map  
Refer to Section 2.11.3



PRE-FINAL SUBMITTAL

NOT FOR CONSTRUCTION  
Apr-22

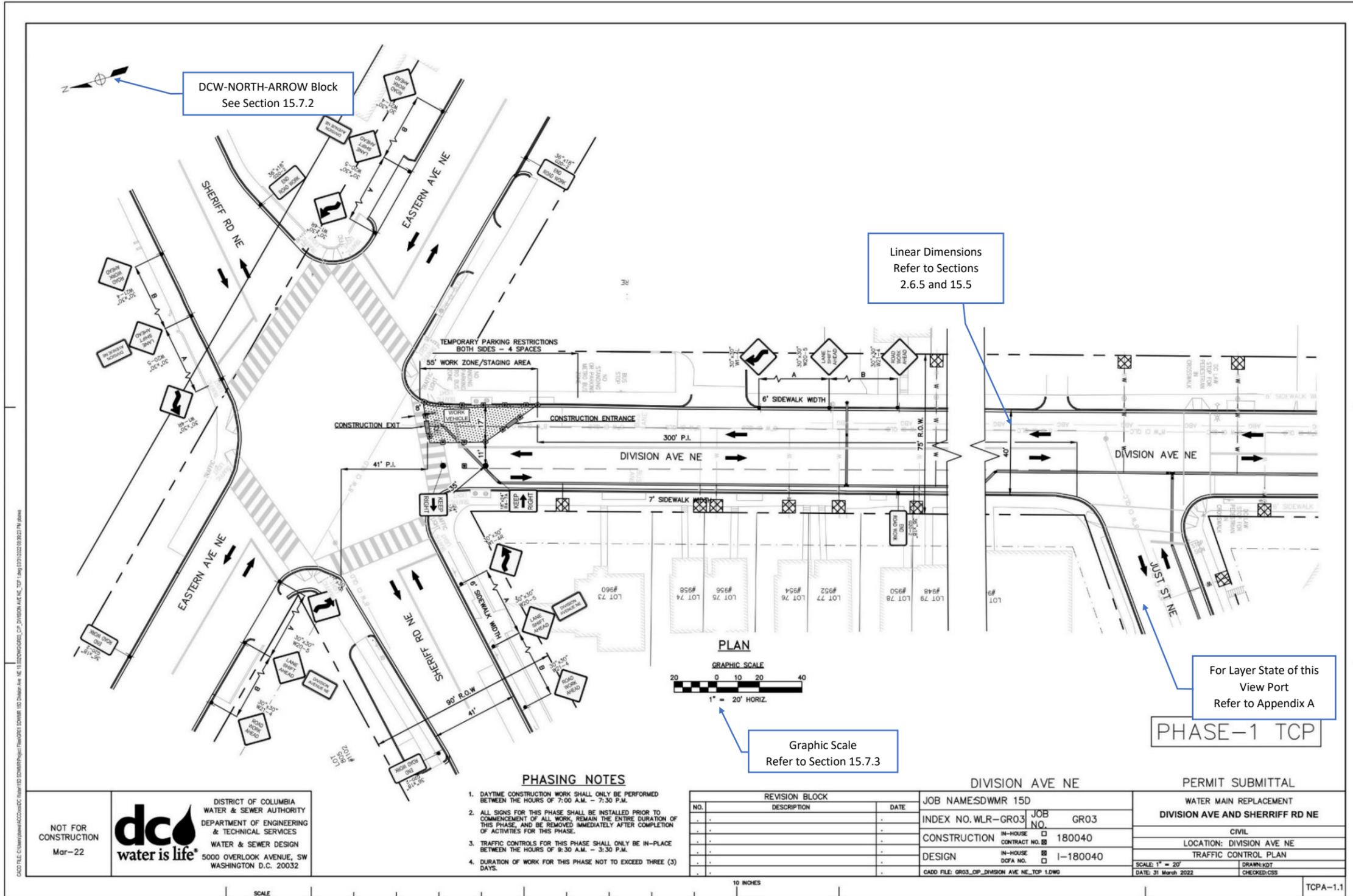
DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
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NO.	DESCRIPTION	DATE

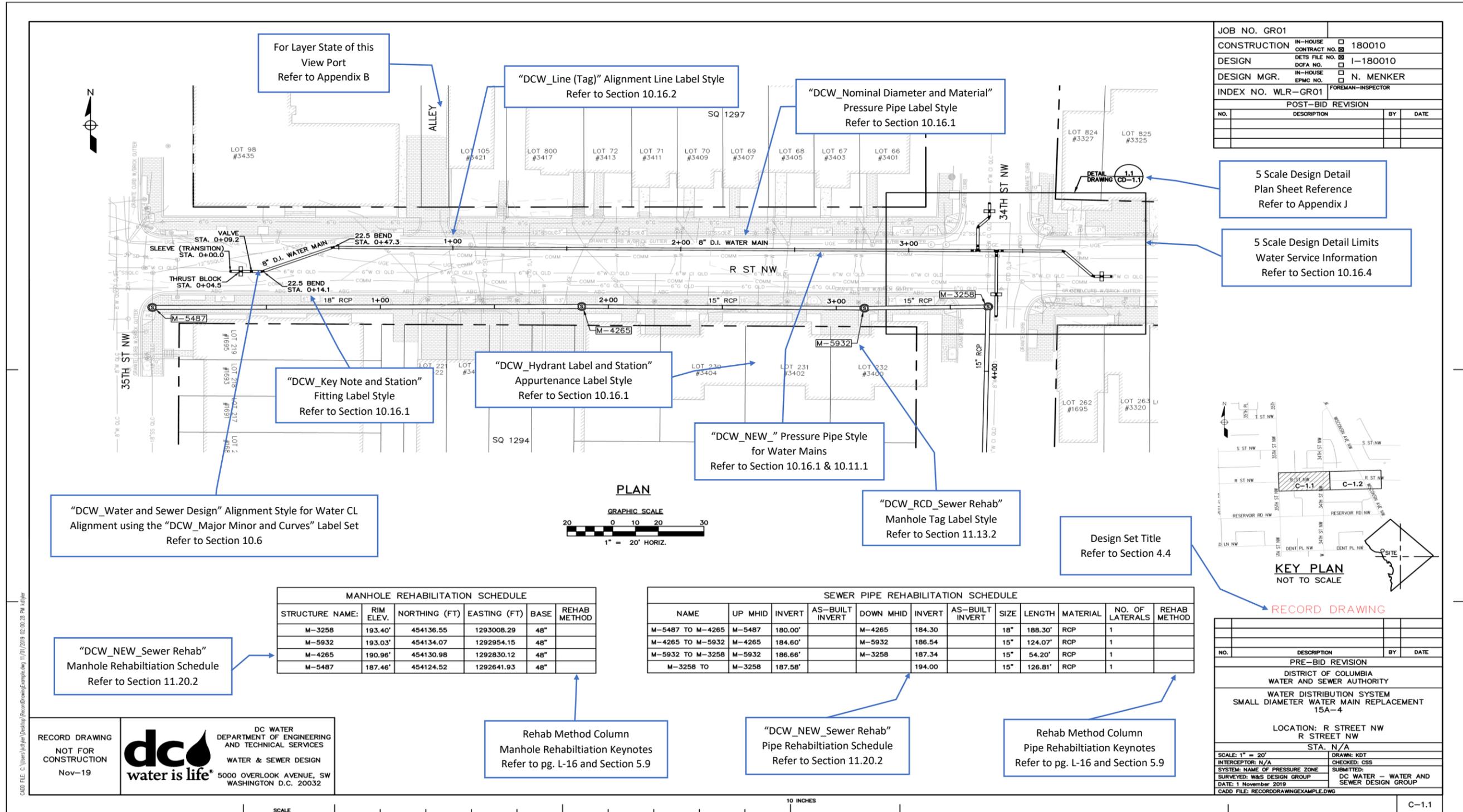
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DESIGN	<input type="checkbox"/> IN-HOUSE <input checked="" type="checkbox"/> DCFA NO. 1-180010
CADD FILE: H02_16B_2ND_PARKER_ST_ES.DWG	

WATER MAIN REPLACEMENT	
3RD ST NE & 1ST NE	
CIVIL	
LOCATION: 2ND & PARKER	
EROSION & SEDIMENT CONTROL	
SCALE: 1" = 20'	DRAWN: PH
DATE: 14 April 2022	CHECKED: YK

ES-1.7



Example - R – Record Drawing Plan Sheet (Refer to Section 10.9.2, Section 10.11.1, Section 11.9.2, and Section 11.11.2)



JOB NO. GR01	IN-HOUSE	CONTRACT NO. 180010
DESIGN	DCFA NO. I-180010	
DESIGN MGR. N. MENKER	IN-HOUSE	EPMC NO.
INDEX NO. WLR-GR01	FOREMAN-INSPECTOR	
POST-BID REVISION		
NO.	DESCRIPTION	BY

5 Scale Design Detail Plan Sheet Reference Refer to Appendix J

5 Scale Design Detail Limits Water Service Information Refer to Section 10.16.4



RECORD DRAWING

PRE-BID REVISION		
NO.	DESCRIPTION	BY
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY		
WATER DISTRIBUTION SYSTEM		
SMALL DIAMETER WATER MAIN REPLACEMENT 15A-4		
LOCATION: R STREET NW		
R STREET NW		
STA: N/A		
SCALE: 1" = 20'	DRAWN: KDT	
INTERCEPTOR: N/A	CHECKED: CSS	
SYSTEM: NAME OF PRESSURE ZONE	SUBMITTED:	
SURVEYED: W&S DESIGN GROUP	DC WATER - WATER AND SEWER DESIGN GROUP	
DATE: 1 November 2019		
CADD FILE: RECORDDRAWINGEXAMPLE.DWG		

STRUCTURE NAME	RIM ELEV.	NORTHING (FT)	EASTING (FT)	BASE	REHAB METHOD
M-3258	193.40'	454136.55	1293008.29	48"	
M-5932	193.03'	454134.07	1292954.15	48"	
M-4265	190.96'	454130.98	1292830.12	48"	
M-5487	187.46'	454124.52	1292641.93	48"	

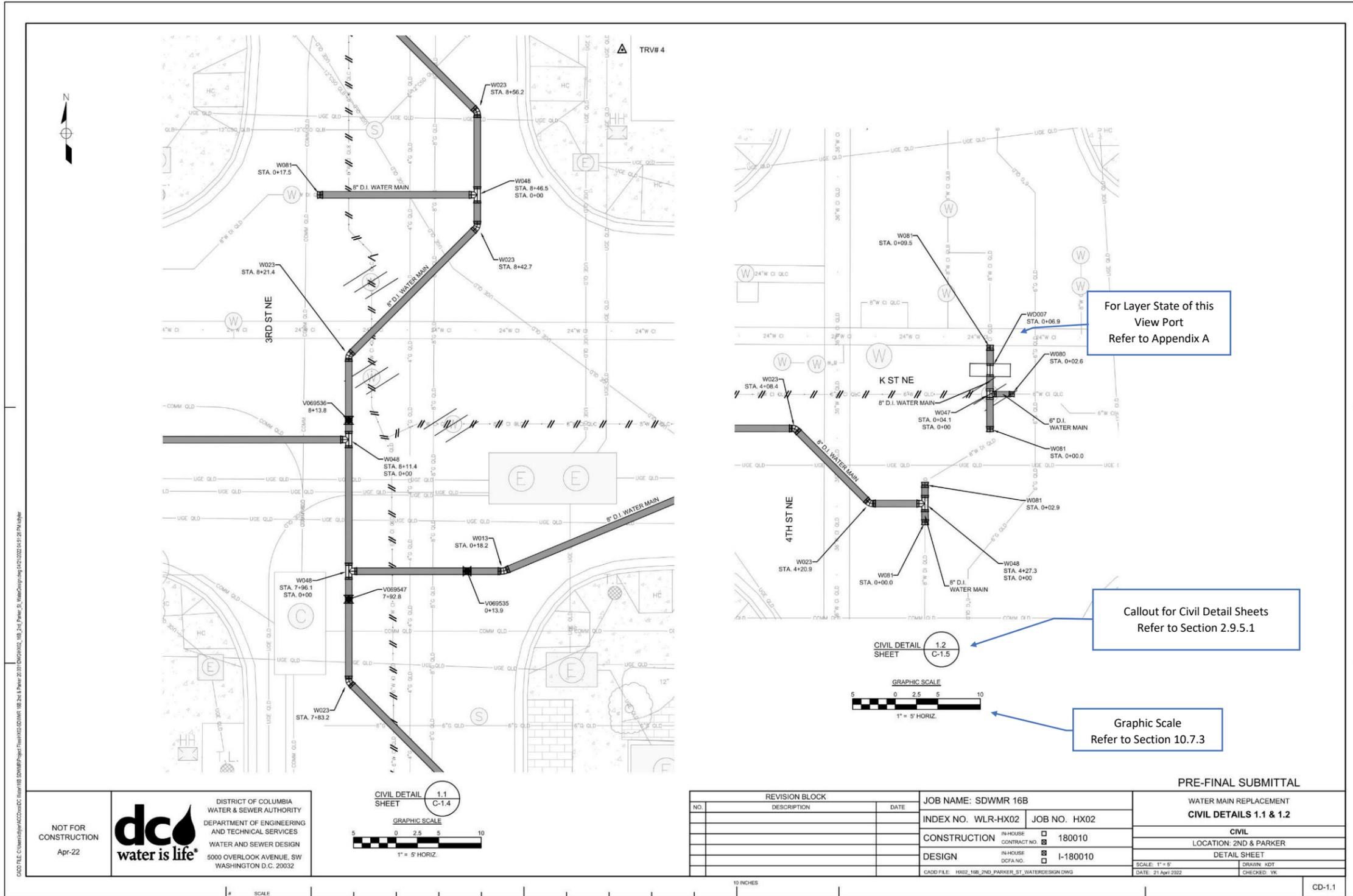
NAME	UP MHID	INVERT	AS-BUILT INVERT	DOWN MHID	INVERT	AS-BUILT INVERT	SIZE	LENGTH	MATERIAL	NO. OF LATERALS	REHAB METHOD
M-5487 TO M-4265	M-5487	180.00'		M-4265	184.30		18"	188.30'	RCP	1	
M-4265 TO M-5932	M-4265	184.60'		M-5932	186.54		15"	124.07'	RCP	1	
M-5932 TO M-3258	M-5932	186.66'		M-3258	187.34		15"	54.20'	RCP	1	
M-3258 TO M-5487	M-3258	187.58'		M-5487	194.00		15"	126.81'	RCP	1	

CADD FILE: C:\Users\kdtaylor\Desktop\RecordDrawingExample.dwg 11/01/2019 02:00:08 PM kdtaylor

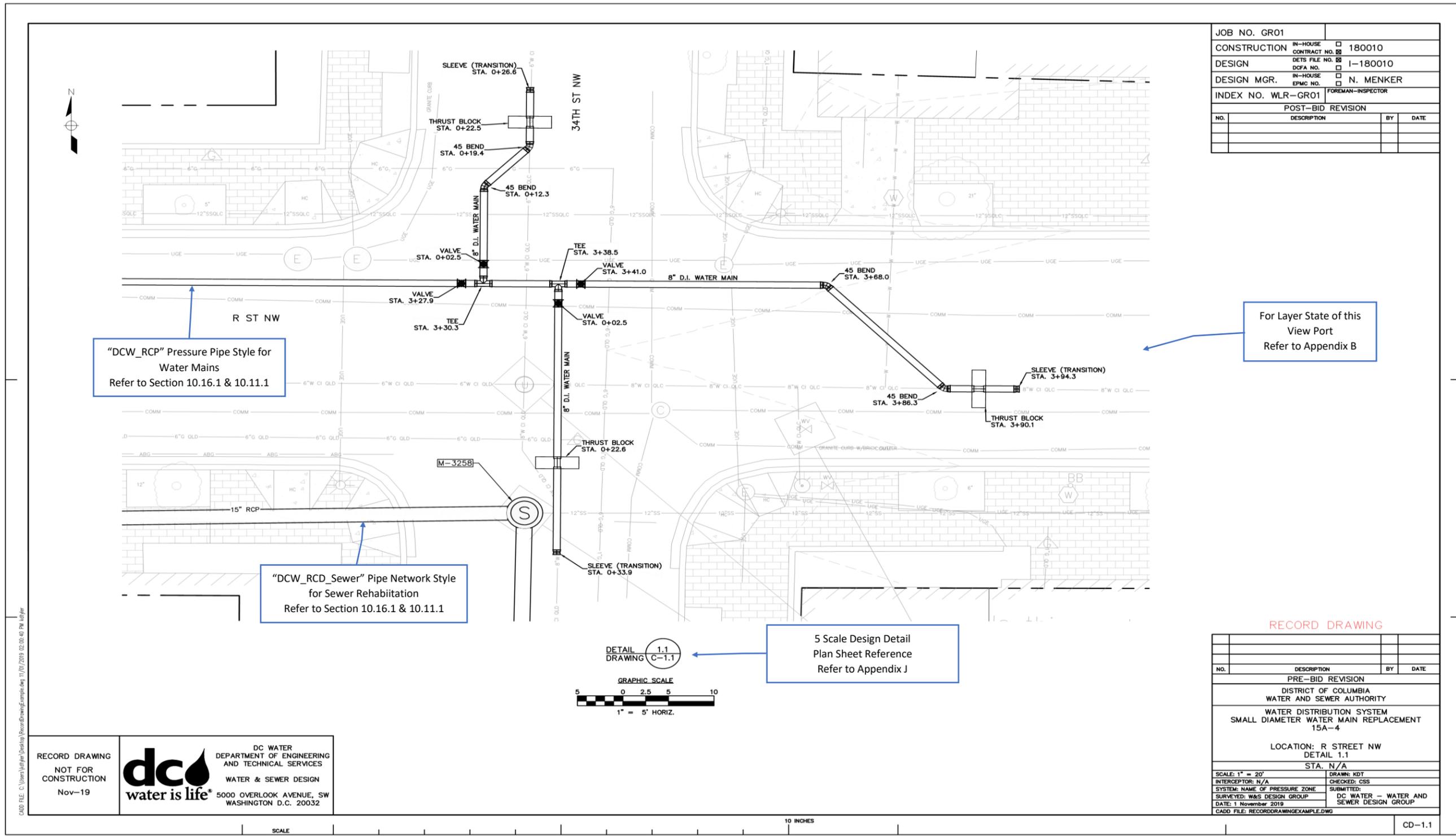
RECORD DRAWING  
NOT FOR CONSTRUCTION  
Nov-19

DC WATER  
DEPARTMENT OF ENGINEERING AND TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

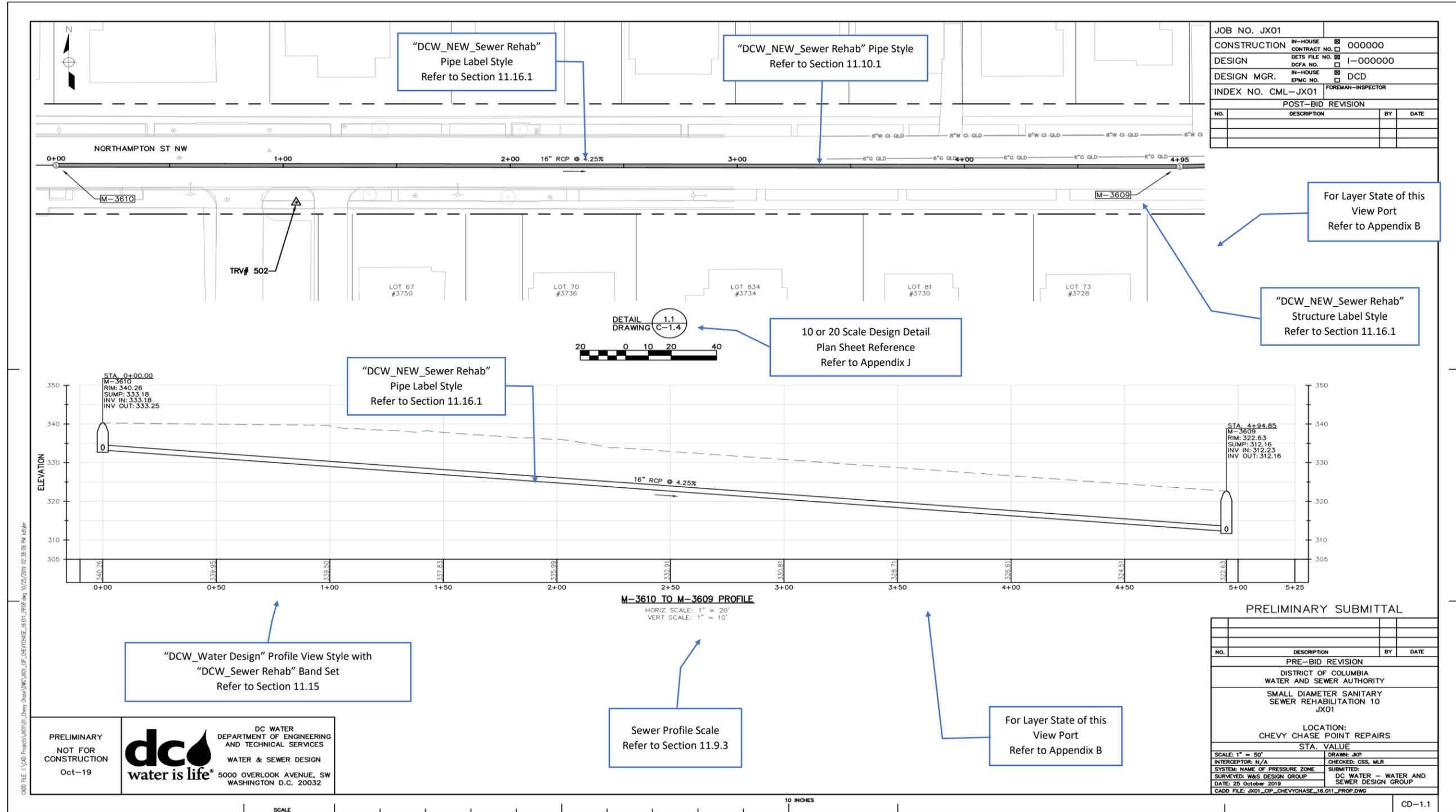
Example – CD – 5 Scale Civil Water Drawing Detail Sheet (Refer to Section 11.9.3)



Example – RD – 5 Scale Record Drawing Detail Sheet (Refer to Section 10.9.3 & Section 10.11.1)



Example - SPR – 20 Scale Sewer Point Repair Sheet (Refer to Section 11.9.3)



Example - CT - Fire Hydrant Tag and Valve Tag Sheet (Refer to Sections 10.17.3 & 10.17.4)

AS-BUILT FIRE HYDRANT INFORMATION (TO BE COMPLETED BY CONTRACTOR AT TIME OF INSTALLATION):									
F.H. DATA H12136	F.H. DATA H12153	F.H. DATA H120096	F.H. DATA H12095	F.H. DATA H12100	F.H. DATA H121098	F.H. DATA H12099			
ELEV.	ELEV.	ELEV.	ELEV.	ELEV.	ELEV.	ELEV.			
PRESS.	PRESS.	PRESS.	PRESS.	PRESS.	PRESS.	PRESS.			
H.H.	H.H.	H.H.	H.H.	H.H.	H.H.	H.H.			
DATE	DATE	DATE	DATE	DATE	DATE	DATE			
F.B.	F.B.	F.B.	F.B.	F.B.	F.B.	F.B.			
PAGE	PAGE	PAGE	PAGE	PAGE	PAGE	PAGE			
SHEET C-1.2	SHEET C-1.2	SHEET C-1.3	SHEET C-1.4	SHEET C-1.6	SHEET C-1.7	SHEET C-1.8			

AS-BUILT VALVE INFORMATION (TO BE COMPLETED BY CONTRACTOR AT TIME OF INSTALLATION):									
VALVE DATA V069559	VALVE DATA V069557	VALVE DATA V069558	VALVE DATA V069543	VALVE DATA V069542	VALVE DATA V069808	VALVE DATA V069541	VALVE DATA V069539	VALVE DATA V069540	VALVE DATA V069538
SIZE 6"	SIZE 8"	SIZE 8"	SIZE 8"	SIZE 8"	SIZE 6"	SIZE 6"	SIZE 8"	SIZE 8"	SIZE 6"
KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND
MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE
PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE
POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION
COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER
MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE
URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS
PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED
PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF
KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT
SHEET C-1.2	SHEET C-1.2	SHEET C-1.2	SHEET C-1.2	SHEET C-1.2	SHEET C-1.2	SHEET C-1.3	SHEET C-1.3	SHEET C-1.3	SHEET C-1.4

VALVE DATA TBD	VALVE DATA V TBD	VALVE DATA V069560	VALVE DATA V069550	VALVE DATA V069552	VALVE DATA V069551	VALVE DATA V069554	VALVE DATA V069553	VALVE DATA V069549	VALVE DATA V069548
SIZE 6"	SIZE 6"	SIZE 6"	SIZE 8"	SIZE 6"	SIZE 8"				
KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND	KIND
MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE	MAKE
PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE
POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION
COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER	COVER
MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM	MAIN STEM
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE	TO CLOSE
URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS	URNS
PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED	PLACED
PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF	PROP. OF
KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT	KEY NUT
SHEET C-1.4	SHEET C-1.4	SHEET C-1.6	SHEET C-1.7						

VALVE DATA V069546	VALVE DATA V069545	VALVE DATA V069556	VALVE DATA V069544	VALVE DATA V069536
SIZE 8"	SIZE 8"	SIZE 6"	SIZE 6"	SIZE 8"
KIND	KIND	KIND	KIND	KIND
MAKE	MAKE	MAKE	MAKE	MAKE
PURPOSE	PURPOSE	PURPOSE	PURPOSE	PURPOSE
POSITION	POSITION	POSITION	POSITION	POSITION
COVER	COVER	COVER	COVER	COVER
MAIN STEM				
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
TO CLOSE				
URNS	URNS	URNS	URNS	URNS
PLACED	PLACED	PLACED	PLACED	PLACED
PROP. OF				
KEY NUT				
SHEET C-1.7	SHEET C-1.7	SHEET C-1.8	SHEET C-1.9	SHEET CD-1.1

REVISION BLOCK			JOB NAME: SDWMR 16B		WATER MAIN REPLACEMENT	
NO.	DESCRIPTION	DATE	INDEX NO. WLR-HX02	JOB NO. HX02	AS-BUILT FH & VALVE DATA (1 OF 2)	
			CONSTRUCTION	<input type="checkbox"/> IN-HOUSE CONTRACT NO. 180010	CIVIL	
			DESIGN	<input checked="" type="checkbox"/> IN-HOUSE DCA NO. I-180010	LOCATION: 2ND & PARKER	
CADD FILE: HX02_16B_2ND_PARKER_ST_WATERDESIGN.DWG			SCALE: N/A		DRAWN: KDT	
10 INCHES			DATE: 21 April 2022		CHECKED: YK	

NOT FOR CONSTRUCTION Apr-22	DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES WATER & SEWER DESIGN 5000 OVERLOOK AVENUE, SW WASHINGTON D.C. 20032		PRE-FINAL SUBMITTAL # SCALE
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Fire Hydrant Stamp  
Refer to Section 11.7.5

Valve Stamp  
Refer to Section 11.7.6

CADD FILE: C:\Users\kdt\OneDrive\Documents\SDWMR\16B\_2ND\_PARKER\_ST\_WATERDESIGN.DWG

Example - CT - Water Service Table Sheet (Refer to Section 10.20.3)

16B 2ND & PARKER ST NE WATER SERVICE TABLE															
SHEET	PROPERTY INFORMATION				EXISTING MATERIAL*		AS-BUILT MATERIAL*		EXISTING METER LOCATION INFORMATION				AS-BUILT METER LOCATION INFORMATION**		
	PREMISE	ADDRESS	STREET NAME	LOT	SQUARE	PRIVATE	PUBLIC	PRIVATE	PUBLIC	LOCATION DESCRIPTION				NORTHING	EASTING
C-1.1	3142464	700	2ND ST NE	826	720	NOT IDENTIFY	NOT IDENTIFY			OUTSIDE IN VAULT 2' INSIDE OF SIDEWALK				NOT IDENTIFY	NOT IDENTIFY
C-1.1	3130949	900	2ND ST NE	812	717	NLS	NOT IDENTIFY			VALVE: 44.00' S. OF THE S. PROPERTY LINE				449517.72	1311223.75
C-1.1	3159304	701	2ND ST NE	49	752	NOT IDENTIFY	NOT IDENTIFY			OUTSIDE VAULT 37' SOUTH OF DRIVEWAY 15' W OF CURB				NOT IDENTIFY	NOT IDENTIFY
C-1.2	3098220	215	I ST NE	801	751	NONLEAD	COPPER			190' EAST OF EAST CURB AT CURB 2ND ST 20'				449370.88	1311482.94
C-1.2	3098348	901	2ND ST NE	132	750	COPPER	COPPER			36' N OF CURB OF I ST 35' E OF E CURB 3' W OF W WALL 10' S OF N WALL COPPER				449701.44	1311417.32
C-1.2	3097732	903	2ND ST NE	805	750	COPPER	COPPER			NOT IDENTIFY				449724.41	1311404.2
C-1.2	3097733	905	2ND ST NE	134	750	LEAD	COPPER			72' S OF FH ON E SIDE 35' E OF E CURB				449744.99	1311400.92
C-1.2	3096349	911	2ND ST NE	155	750	NOT IDENTIFY	COPPER			15' S. OF S. BLDG. LINE OF PARKER ST. - 9' 24' S. OF PARKER ST. AND 39' FROM CURB				449809.71	1311394.36
C-1.2	3145040	911	2ND ST NE	160	750	NLS	NLS			NOT IDENTIFY				449786.75	1311281.23
C-1.2	3097758	917	2ND ST NE	125	750	COPPER	COPPER			NOT IDENTIFY				449865.49	1311404.2
C-1.2	3097759	919	2ND ST NE	126	750	LEAD	COPPER			NOT IDENTIFY				449881.89	1311400.92
C-1.3	3097760	921	2ND ST NE	127	750	LEAD	COPPER			NOT IDENTIFY				448895.01	1311400.92
C-1.3	3097761	923	2ND ST NE	128	750	LEAD	COPPER			NOT IDENTIFY				449908.14	1311400.92
C-1.3	3097762	929	K ST NE	156	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311387.8
C-1.3	3097763	203	K ST NE	157	750	LEAD	COPPER			NOT IDENTIFY				449986.88	1311404.2
C-1.3	3161375	200	K ST NE	826	749	NLS	NLS			NOT IDENTIFY				450150.92	1311387.8
C-1.4	3144214	250	K ST NE	828	749	NOT IDENTIFY	NOT IDENTIFY			OUTSIDE IN VAULT				NOT IDENTIFY	NOT IDENTIFY
C-1.4	3096412	1005	3RD ST NE	58	774	COPPER	COPPER			125' W OF 3 STEM VALVE AT ABBEY PL & L S COPPER				450160.76	1311804.46
C-1.4	3097764	205	K ST NE	158	750	LEAD	COPPER			91' E OF 3 STEM VALVE AT 2ND & K STS 29' 30" S OF S CURB. 9' E OF W PART WALL COPPER				449990.16	1311420.6
C-1.4	3097765	207	K ST NE	811	750	LEAD	COPPER			NOT IDENTIFY				449986.88	1311433.73
C-1.4	3097766	209	K ST NE	812	750	LEAD	COPPER			NOT IDENTIFY				449986.88	1311446.85
C-1.4	3097767	211	K ST NE	159	750	LEAD	COPPER			127' E E CURB OF 2ND & K ST 28' S S CURB 24' N OF PARTY WALL 8' W E WALL COPPER				449990.16	1311466.54
C-1.4	3097768	213	K ST NE	814	750	LEAD	COPPER			NOT IDENTIFY				449986.88	1311479.66
C-1.4	3097769	215	K ST NE	815	750	LEAD	COPPER			NOT IDENTIFY				450157.48	1311601.05
C-1.4	3097770	217	K ST NE	147	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311512.47
C-1.4	3097771	219	K ST NE	148	750	COPPER	COPPER			NOT IDENTIFY				449983.6	1311525.59
C-1.4	3097772	221	K ST NE	149	750	COPPER	COPPER			219' W OF VALVE ON MAIN AT 3RD & K STS 28 COPPER				449986.88	1311541.99
C-1.4	3097773	223	K ST NE	150	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311555.12
C-1.4	3097774	225	K ST NE	97	750	LEAD	COPPER			NOT IDENTIFY				449986.88	1311571.52
C-1.4	3097775	227	K ST NE	98	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311584.65
C-1.4	3097776	229	K ST NE	99	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311597.77
C-1.4	3097777	231	K ST NE	100	750	LEAD	COPPER			NOT IDENTIFY				449983.6	1311610.89
C-1.4	3097778	233	K ST NE	101	750	LEAD	COPPER			NOT IDENTIFY				449983.6	1311624.02
C-1.4	3097779	235	K ST NE	102	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311637.14
C-1.4	3097780	237	K ST NE	93	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311650.26
C-1.4	3097781	239	K ST NE	94	750	COPPER	COPPER			89' W OF VALVE AT 3RD & K STS 20' S OF S C 15' FROM N BLDG WALL 7' W OF E LL COPPER				449986.88	1311666.67
C-1.4	3097782	241	K ST NE	95	750	COPPER	COPPER			NOT IDENTIFY				449986.88	1311683.07
C-1.4	3097783	243	K ST NE	96	750	COPPER	COPPER			NOT IDENTIFY				449983.6	1311702.76
C-1.4	3129825	301	K ST NE	52	750	COPPER	COPPER			48' E OF VALVE AT 3RD & K STS 15' S OF S C COPPER				449983.6	1311807.74
C-1.4	3129826	303	K ST NE	804	750	NOT IDENTIFY	NOT IDENTIFY			NOT IDENTIFY				449983.6	1311827.43

\*CONTRACTOR TO VERIFY THE MATERIAL OF EXISTING WATER SERVICE LINE AND PROVIDE THE MATERIAL OF NEW WATER SERVICE LINE

Water Service Table  
Refer to Section 11.8.2

NOT FOR CONSTRUCTION  
Apr-22

DISTRICT OF COLUMBIA  
WATER & SEWER AUTHORITY  
DEPARTMENT OF ENGINEERING & TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

REVISION BLOCK		
NO.	DESCRIPTION	DATE

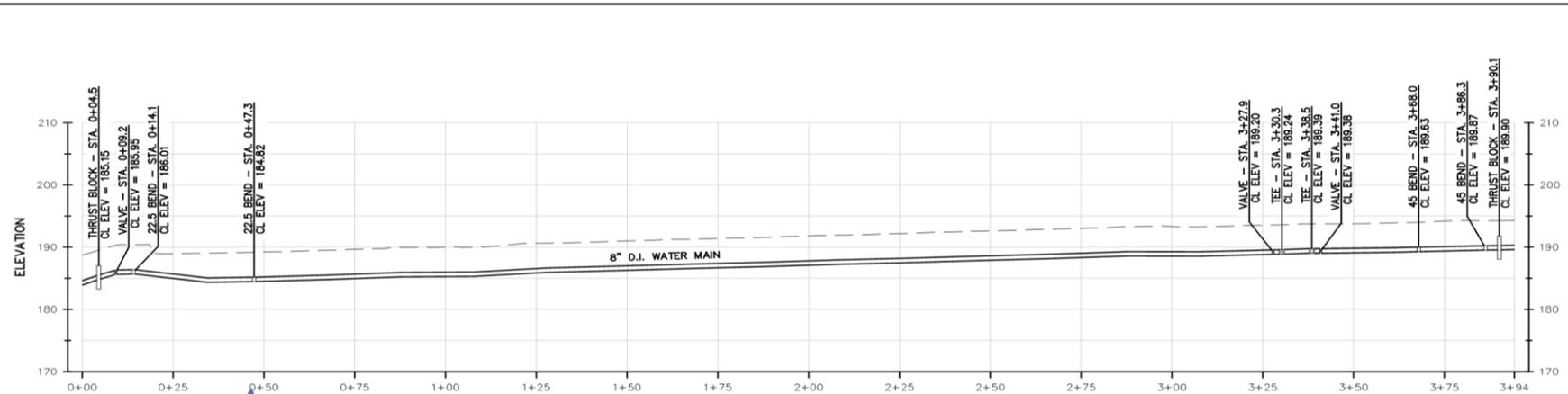
JOB NAME: SDWMR 16B  
INDEX NO. WLR-HX02 JOB NO. HX02  
CONSTRUCTION  CONTRACT NO. 180010  
DESIGN  DCFA NO. 1-180010  
CADD FILE: HX02\_16B\_2ND\_PARKER\_ST\_WATERDESIGN.DWG

PRE-FINAL SUBMITTAL  
WATER MAIN REPLACEMENT  
WATER SERVICE DATA (1 OF 3)  
CIVIL  
LOCATION: 2ND & PARKER  
SCALE: N/A DRAWN: NDT  
DATE: 21 April 2022 CHECKED: YK

10 INCHES

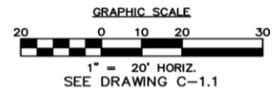
CT-1.2

Example – RD – Record Drawing Profile Sheet (Refer to Section 10.9.4)

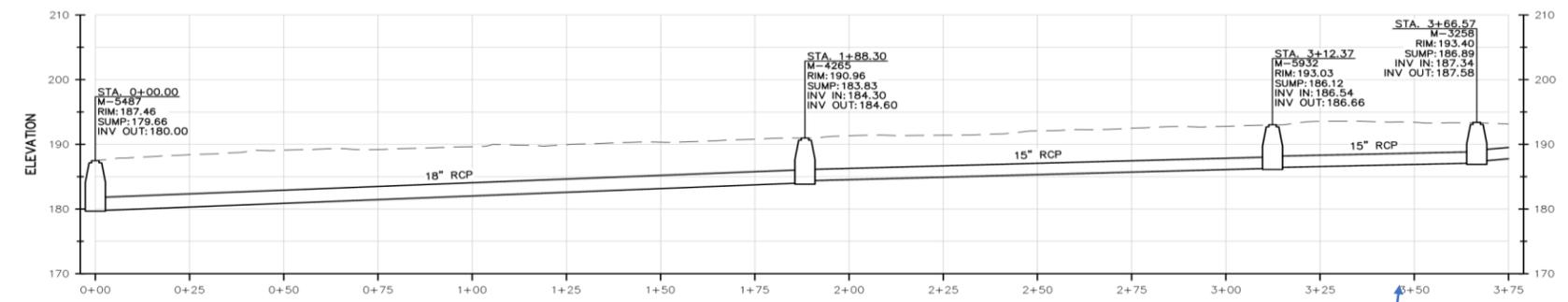


R STREET NW – WATER – 0+00 TO 3+94 PROFILE

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 10'

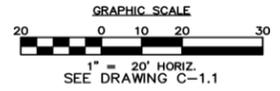


“DCW\_Water Design”  
Profile View Style  
Refer to Section 10.14



R STREET NW – SEWER – 0+00 TO 3+75 PROFILE

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 10'



“DCW\_Water Design”  
Profile View Style  
Refer to Section 11.14

JOB NO. GR01	
CONSTRUCTION	IN-HOUSE <input type="checkbox"/> CONTRACT NO. 180010
DESIGN	DCFA NO. <input type="checkbox"/> I-180010
DESIGN MGR.	IN-HOUSE <input type="checkbox"/> N. MENKER
INDEX NO. WLR-GR01	FOREMAN-INSPECTOR
POST-BID REVISION	
NO.	DESCRIPTION BY DATE

RECORD DRAWING

NO.	DESCRIPTION	BY	DATE
PRE-BID REVISION			
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY			
WATER DISTRIBUTION SYSTEM SMALL DIAMETER WATER MAIN REPLACEMENT 15A-4			
LOCATION: R STREET NW PROFILES			
SCALE: 1" = 20'	DRAWN: KDT		
INTERCEPTOR: N/A	CHECKED: CSS		
SYSTEM: NAME OF PRESSURE ZONE	SUBMITTED:		
SURVEYED: W&S DESIGN GROUP	DC WATER – WATER AND SEWER DESIGN GROUP		
DATE: 1 November 2019			
CADD FILE: RECORDDRAWINGEXAMPLE.DWG			
			CP-1.1

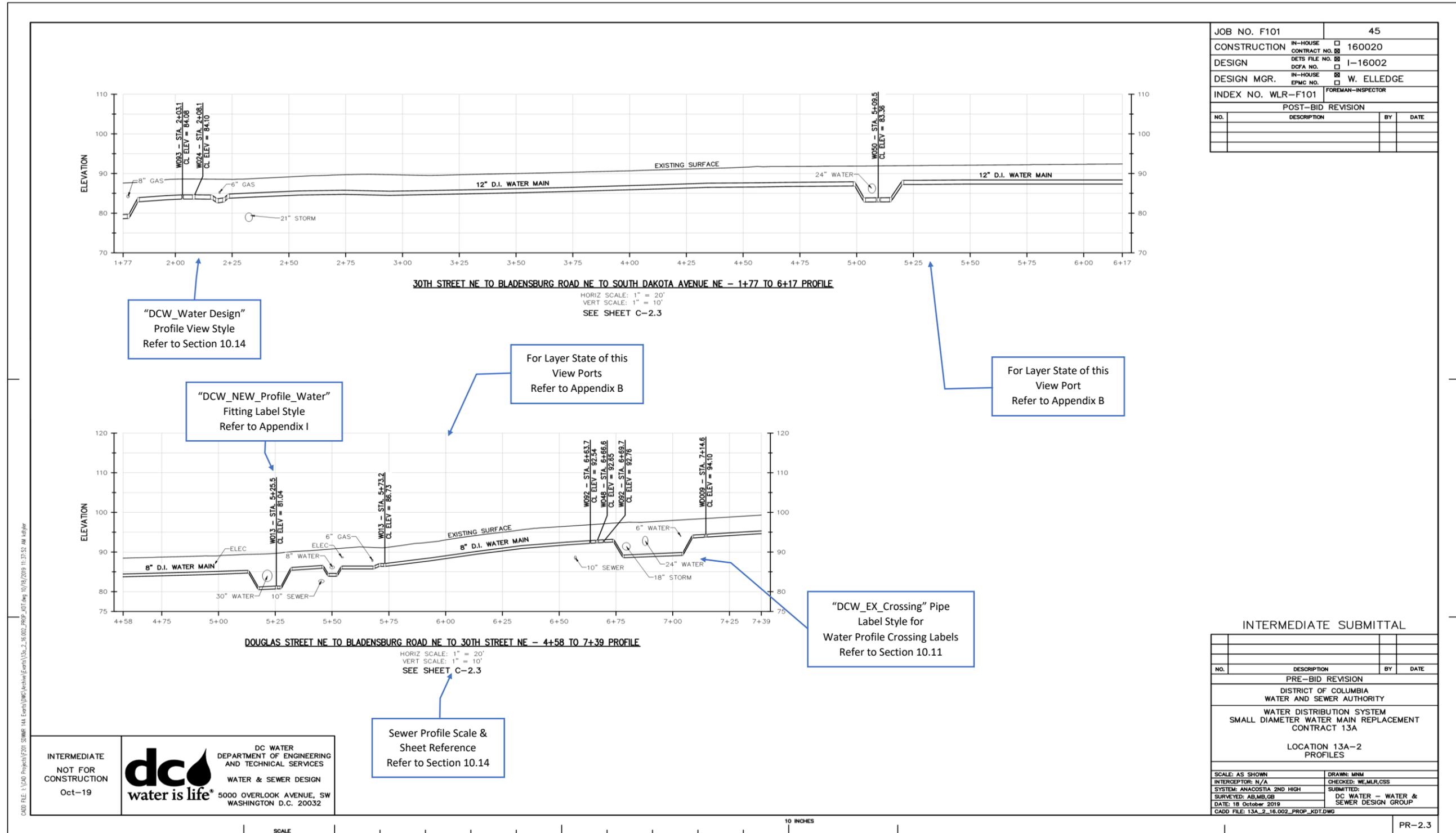
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RECORD DRAWING  
NOT FOR CONSTRUCTION  
Nov-19

DC WATER  
DEPARTMENT OF ENGINEERING  
AND TECHNICAL SERVICES  
WATER & SEWER DESIGN  
5000 OVERLOOK AVENUE, SW  
WASHINGTON D.C. 20032

SCALE \_\_\_\_\_ 10 INCHES \_\_\_\_\_

Example - WPR – Water Profile Sheet(s) (Refer to Section 10.9.4 & Section 10.13)



JOB NO. F101	45
CONSTRUCTION	IN-HOUSE <input type="checkbox"/> 160020 CONTRACT NO. 88 DETS FILE NO. 88
DESIGN	DCFA NO. <input type="checkbox"/> I-16002
DESIGN MGR.	IN-HOUSE <input checked="" type="checkbox"/> W. ELLEDGE EPMC NO. <input type="checkbox"/>
INDEX NO. WLR-F101	FOREMAN-INSPECTOR
POST-BID REVISION	
NO.	DESCRIPTION BY DATE

INTERMEDIATE SUBMITTAL		
NO.	DESCRIPTION	BY DATE
PRE-BID REVISION		
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY		
WATER DISTRIBUTION SYSTEM SMALL DIAMETER WATER MAIN REPLACEMENT CONTRACT 13A		
LOCATION 13A-2 PROFILES		
SCALE: AS SHOWN	DRAWN: MNM	
INTERCEPTOR: N/A	CHECKED: WE.MLR,CSS	
SYSTEM: ANACOSTIA 2ND HIGH	SUBMITTED:	
SURVEYED: AB.MR,GB	DC WATER – WATER & SEWER DESIGN GROUP	
DATE: 18 October 2019	CADD FILE: 13A_2_16.002_PROP_KDT.DWG	
SCALE		PR-2.3