MDC

THE METROPOLITAN DISTRICT

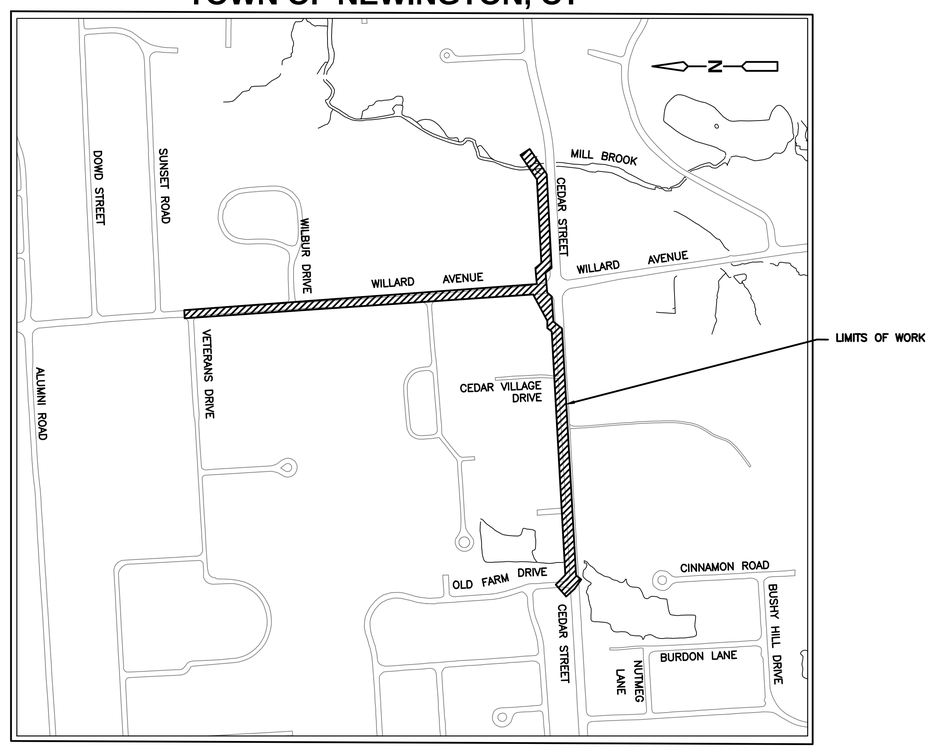
HARTFORD, CONNECTICUT

SANITARY SEWER IMPROVEMENTS AND WATER MAIN INSTALLATION CEDAR STREET AREA

CONTRACT NO. 2011-73

FEBRUARY 2018

TOWN OF NEWINGTON, CT



LOCATION MAP

1" = 400'

200 0 400

CONFORMED JULY 2018

STATE OF CONNECTICUT JOSEPH L. LAUBER 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith EAST HARTFORD, CONNECTICUT

WATER + ENVIRONMENTAL + TRANSPORTATION + ENERGY + FACILITIES

CONTRACT NO. 2011-73

0930-101397

LIST OF DRAWINGS

GENERAL

G–1	STANDARD LEGEND
G–2	GENERAL NOTES AND ABBREVIATIONS
G–3	KEY PLAN
G–4	SEWER EASEMENT PLAN
G–5	WATER EASEMENT PLAN

CIVIL

C–1	SEDIMENTATION AND EROSION CONTROL PLAN I
C–2	SEDIMENTATION AND EROSION CONTROL PLAN II
C–3	SANITARY SEWER PLAN AND PROFILE I
C–3A	EXISTING SEWER – CIPP LINING
C–4	SANITARY SEWER PLAN AND PROFILE II
C–5	(NOT USED)
C–5A	WATER MAIN PLAN AND PROFILE I (WATER ALTERNATE BID)
C–6A	WATER MAIN PLAN AND PROFILE II (WATER ALTERNATE BID)
C–6	WATER MAIN PLAN AND PROFILE II (WATER BASE BID)
C–7	WATER MAIN PLAN AND PROFILE III (WATER BASE BID)
C–8	WATER MAIN PLAN AND PROFILE IV (WATER BASE BID)
C–9	SURFACE RESTORATION PLAN I
C–10	SURFACE RESTORATION PLAN II (WATER ALTERNATE BID)
C–11	WETLAND RESTORATION PLAN MILL BROOK AREA

DETAILS

D–1	MISCELLANEOUS DETAILS I
D–2	MISCELLANEOUS DETAILS II
D–3	MISCELLANEOUS DETAILS III
D–4	MISCELLANEOUS DETAILS IV
D–5	MISCELLANEOUS DETAILS V
D–6	MISCELLANEOUS DETAILS VI

TRAFFIC

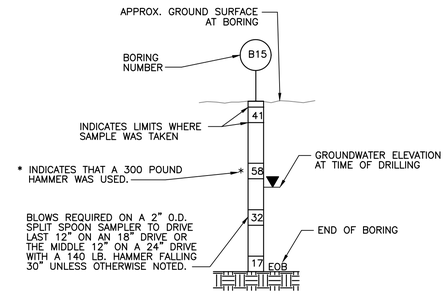
T–1	TRAFFIC CONTROL SIGNS
T–2	TRAFFIC CONTROL SIGNS AND DEVICES
T–3	LOOP VEHICLE DETECTOR AND SAWCUT
T–4	TYPICAL DETAILS AND PROJECT SPECIFIC SIGNS
T–5	TRAFFIC MANAGEMENT PLAN V
T–6a	TRAFFIC MANAGEMENT PLAN VIa
T–6b	TRAFFIC MANAGEMENT PLAN VIb
T–6c	TRAFFIC MANAGEMENT PLAN VIc
T–6d	TRAFFIC MANAGEMENT PLAN VId
T–7	TRAFFIC MANAGEMENT PLAN VII
T–8	TRAFFIC MANAGEMENT PLAN VIII
T–9	TRAFFIC MANAGEMENT PLAN IX
T–10	TRAFFIC MANAGEMENT PLAN X
T–11	TRAFFIC MANAGEMENT PLAN XI
T–12	TRAFFIC MANAGEMENT PLAN XII
T–13	TRAFFIC MANAGEMENT PLAN XIII
T–14	TRAFFIC MANAGEMENT PLAN XIV
T–15	TRAFFIC MANAGEMENT PLAN XV
T–16	TRAFFIC MANAGEMENT PLAN XVI
T–17	TRAFFIC MANAGEMENT PLAN XVII
T–18	TRAFFIC MANAGEMENT PLAN XVIII
T–19	TRAFFIC MANAGEMENT PLAN XIX

EXISTING TOPOGRAPHIC FEATURE	DESCRIPTION
n/a	TEMP. ITEMS, BLOCKS, XREFS, ETC.
n/a	VIEWPORTS AND NON PLOT TEXT
	SURVEY BENCHMARK
	STRUCTURE/BLDG/HSE
#100	STRUCTURE/BLDG/HSE TEXT
B-#	SUBSURFACE BORING
	EDGE OF ROAD
	EDGE OF PAVED DRIVEWAY/PARKING
ANY STREET	ROAD NAME TEXT
	BARB WIRE FENCE
	CHAIN LINK FENCE
	STOCKADE OR WOOD FENCE
	GUARDRAIL (LEFT)
	GUARDRAIL (RIGHT)
LEDGE	LEDGE OUTCROP
	MAILBOX
	PROPERTY LINE
P	POST
P-#	SUBSURFACE PROBE
	RAILROAD TRACKS
	EXISTING ROAD MARKINGS/LINES
	EASEMENT OR ROW
	SIGN AND POST
SB	STONE BOUND OR MONUMENT
	STREET LINE (AT PROPERTY LINE)
TP	EXCAVATED TEST PIT
VT	VACUUM TEST PIT
100	INDEX CONTOUR
99	INTERMEDIATE CONTOUR
	SURVEY CONTROL POINTS
x100.00	SURVEY SPOT ELEVATION
	SURVEY TRAVERSE POINTS
	WATERWAY EDGE
	WETLAND LIMITS AND FLAG
	CITY/TOWN BOUNDARY
	CONIFEROUS AND DECIDUOUS TREES
	HEDGES OR BUSHES
	RETAINING WALL
	STONE WALL
	UNPAVED WALKWAY OR PATH
	PAVED OR CONCRETE WALKWAY

NEW SURFACE RESTORATION FEATURE	DESCRIPTION
	LIMITS OF CURB RESTORATION
	LINE OF SILT FENCE OR HAYBALES
	LIMITS OF MILL AND OVERLAY PAVEMENT RESTORATION
	LIMITS OF CONCRETE DRIVEWAY APRON REPLACEMENT
	LIMITS OF BITUMINOUS CONCRETE DRIVEWAY RESTORATION
	LIMITS OF BITUMINOUS CONCRETE SIDEWALK RESTORATION
	LIMITS OF CONCRETE SIDEWALK RESTORATION

EXISTING UTILITY FEATURE	DESCRIPTION
EXISTING TEXT	EXISTING TEXT AND ANNOTATION
CATV	CABLE LINE
	TYPICAL CENTER LINE OF ROAD
E	ELECTRICAL LINE
E	ELECTRICAL MANHOLE
E	ELECTRICAL JUNCTION BOX
E # DUCT	ELECTRICAL STRUCTURE
	LIGHT POLE
	ELECTRICAL HAND HOLE
	ABANDONED ELECTRICAL LINE
	EXISTING TRANSFORMER
G 4" PL	NATURAL GAS LINE
	GAS WELL
6" CI ABN	ABANDONED GAS LINE
G	GAS PUMP
GV GG	GAS GATE VALVE
	GAS VENT
	DRILL HOLE
IP IP	IRON PIPE
	EXISTING MISCELLANEOUS MANHOLE
8" VCP	SANITARY SEWER LINE (6"–12")
15" VCP	SANITARY SEWER LINE (15")
18" RCP	SANITARY SEWER LINE (18")
24" RCP	SANITARY SEWER MAIN (24")
30" RCP	SANITARY SEWER MAIN (30")
36" RCP	SANITARY SEWER MAIN (36")
24" BRK-CS	COMBINED SEWER MAIN
	SANITARY SEWER MANHOLE
12" RCP-D	STORM DRAIN LINE (6"–12")
15" RCP-D	STORM DRAIN LINE (15")
18" RCP-D	STORM DRAIN LINE (18")
24" RCP-D	STORM DRAIN (24" RCP)
30" RCP-D	STORM DRAIN (30" RCP)
36" RCP-D	STORM DRAIN (36" RCP)
48" RCP-D	STORM DRAIN (48" RCP)
60" RCP-D	STORM DRAIN (60" RCP)
	STORM DRAIN MANHOLE
	CATCH BASIN
	HEADWALL STRUCTURE
T	TELEPHONE LINE
T	TELEPHONE MANHOLE
T # DUCT	TELEPHONE STRUCTURE
	ABANDONED TELEPHONE LINE
TS	EXISTING TRAFFIC SIGNAL SWITCH
	EXISTING TRAFFIC CONTROL BOX
	EXISTING TRAFFIC POLE/SPAN
UP# UP#	UTILITY POLE
	UTILITY POLE GUY WIRE
W 8" CI	WATER MAIN (6"–12")
	WATER MAIN (16" DI)
	WATER MAIN (20" DI)
	WATER MAIN (24" DI)
	WATER MAIN (30" DI)
AV	EXISTING AIR RELEASE VALVE
BO	EXISTING BLOW OFF
CAP	EXISTING CAP OR PLUG
FB	EXISTING FORD BOX
FIRE	FIRE SERVICE LINE
F HYD	EXISTING HYDRANT
	EXISTING SERVICE AND CURB STOP
WV	EXISTING WATER GATE VALVE

NEW UTILITY FEATURE	DESCRIPTION
NEW TEXT	NEW TEXT AND ANNOTATION
3+50	NEW STATION TEXT AND MARKS
	SEWER MAIN (8" PVC)
	SEWER MAIN (10" PVC)
	SEWER MAIN (12" PVC)
	SEWER MAIN (15" PVC)
	SEWER MAIN (18" PVC)
	SEWER MAIN (24" RCP)
	SEWER MAIN (30" RCP)
	SEWER MAIN (36" RCP)
	SEWER SERVICE PIPE (6" PVC)
	SEWER MANHOLE (4, 5, 6, 8–FT ø)
	SEWER CHIMNEY
	STORM DRAIN (8" PVC)
	STORM DRAIN (10" PVC)
	STORM DRAIN (12" PVC)
	STORM DRAIN (15" PVC)
	STORM DRAIN (18" PVC)
	STORM DRAIN (12" RCP)
	STORM DRAIN (15" RCP)
	STORM DRAIN (18" RCP)
	STORM DRAIN (24" RCP)
	STORM DRAIN (30" RCP)
	STORM DRAIN (36" RCP)
	STORM DRAIN (48" RCP)
	STORM DRAIN (60" RCP)
	CATCH BASIN
	COLLECTOR DRAIN PIPE (6" PVC)
	DRAIN SERVICE PIPE (4" PVC)
	DRAIN MANHOLE (4, 5, 6, 8–FT ø)
[ ]	LIMITS OF WATER MAIN ABANDONMENT
	SLEEVE OR COUPLING
	OFFSET UP OR DOWN
CAP	CAP OR PLUG
	HYDRANT AND GATE
	WATER MAIN (6" DI)
	WATER MAIN (8" DI)
	WATER MAIN (10" DI)
	WATER MAIN (12" DI)
	WATER MAIN (16" DI)
	WATER MAIN (20" DI)
	WATER MAIN (24" DI)
	WATER MAIN (30" DI)
	WATER SERVICE AND CURB STOP
	CORPORATION STOP
	VALVE/REG PIT/MANHOLE
	HORIZONTAL GATE/BYPASS
	VERTICAL GATE/BYPASS
	CHECK VALVE PIT FOR FIRE SERVICE
FB	FORD BOX
	VERTICAL GATE VALVE BOX
AV	AIR VALVE
BV	BUTTERFLY VALVE
	REDUCER, GATE AND BLOW–OFF
	TAPPING GATE AND SERVICE FROM EXISTING MAIN



NOTE:
FOR STRATA DESCRIPTIONS, SEE BORING LOGS APPENDED TO THE SPECIFICATIONS

TYPICAL BORING LOG

TOWN OF NEWINGTON

131 Cedar Street Newington, Connecticut 06111

Conservation Commission

John Salomone
Town Manager

Christopher Greenlaw, P.E.
Town Engineer

CERTIFIED MAIL NO. 9314 8699 0430 0001 5060 86

"OFFICIAL NOTIFICATION OF ACTION"

March 20, 2014

Dwight R. Dunk
CDM Smith
50 Hampshire Street
Cambridge, MA 02139

Re: Application No. 2014-03
Cedar Street (MDC)
Newington, CT 06111

Dear Applicant:

The Newington Conservation Commission, at its meeting of March 18, 2014, voted to issue you a permit by Summary Ruling to conduct certain regulated activity(ies) at the subject location. Issuance of this permit is subject to the following conditions and/or modification which are considered to be safeguards to bring the proposed activity or activities into compliance with the purpose of the regulations and statutes governing wetland and water course activities:

1. This permit shall be valid for sixty (60) months from the date of this action.
2. This PERMIT SHALL AUTOMATICALLY EXPIRE if the proposed work has not been completed within two (2) years of the date site improvement commences or at the expiration of this PERMIT unless the Commission shall have previously extended this permit.
3. Permits are not transferable without the prior written consent of the Agency.
4. FAILURE TO COMPLY WITH ANY CONDITION REQUIRED BY THIS PERMIT SHALL AUTOMATICALLY REVOKE THIS PERMIT AND SUBJECT THE APPLICANT, HEIRS, SUCCESSORS AND ASSIGNS TO THE ENFORCEMENT AUTHORITY OF THE COMMISSION.
5. All conditions listed on this permit must be printed on the approved plan(s) within six (6) months of the report issued by the Commission. The annotated plan(s) must be presented to the Commission for signature by the Chairman within six (6) months of the report issued by the Commission; otherwise this permit is null and void.
6. Applicant will incorporate the "Official Notification of Action" onto original tracings.
7. When the actual field conditions differ from those asserted by the approved plans, the Town Engineer in consultation with the Chairperson may direct that certain modifications or amendments be made to accomplish the intent of this permit.
8. No regulated activity within the designated wetlands, watercourses, and/or buffer area shall be performed on the site until all soil and erosion control measures are installed in accordance with the plans and approved by the Town Engineer.
9. The Agency has relied in whole or in part on information provided by the applicant, and if such information subsequently proves to be false, deceptive, incomplete or inaccurate, the permit may be modified, suspended or revoked.
10. All permits issued by the Agency are subject to and do not derogate any present or future rights or powers of the Agency or the Town of Newington, and convey no rights in real estate or material nor any exclusive privileges, and are further subject to any and all public and private rights and to any federal, state and municipal laws or regulations pertinent to the subject land or activity.
11. In conducting the authorized activities, the permittee shall implement such management practices consistent with the terms and conditions of the permit as needed to control storm water discharges and to prevent erosion and sedimentation and to otherwise prevent pollution of wetlands and watercourses.
12. Hay bales or silt fencing may be used for sedimentation control.

Please be advised that the effective date of the permit and final day for appeal of the Commission action will be April 9, 2014.

Please have your engineer affix this letter on to the original tracing (s) and submit the original tracing (s) to this office for signing by the Chairman of the Commission. The permit does not become valid until the tracings are signed.

Very truly yours,

Christopher Greenlaw, P.E.
Town Engineer

Note: This letter is to serve as your "Official Notification of Action" to conduct the proposed activities.

cc: Craig Minor, Town Planner
Douglas Jourdan, Chief Building Official
Art Hanke, Zoning Enforcement Officer

(860) 665-8570 Fax: (860) 665-8577
www.newingtonct.gov

Phone: (860) 665-8570 Fax: (860) 665-8577
www.newingtonct.gov

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: GSTL0001
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOHN C. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

STANDARD LEGEND

PLAN NUMBER

SHEET NO.
G-1

0930–101697

GENERAL NOTES

1. PLAN AND TOPOGRAPHY FROM SURVEY PERFORMED BY MARTINEZ, COUCH AND ASSOCIATES OF WALLINGFORD, CT FOR CEDAR STREET IN THE FALL OF 2011 AND WILLARD AVENUE IN FEBRUARY 2014. TEMPORARY BENCHMARKS ARE LOCATED ON THE PLANS WITH DESCRIPTIONS AND ELEVATIONS. SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20–300B–1 THRU 20–300B–20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC ON SEPTEMBER 26, 1996.
2. ELEVATIONS ON ALL PLAN AND PROFILE SHEETS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88, CTGS2816) AND HORIZONTAL DATUM NORTH AMERICAN DATUM OF 1983/92 (NAD 83, CTGS2816 & CTGS5620X).
3. SUBSURFACE INVESTIGATIONS (BORINGS AND PROBES) WERE CONDUCTED BY SOIL EXPLORATION CORP. OF LEOMINSTER, MASS IN CEDAR STREET WINTER 2012, WILLARD AVENUE MAY 2014, AND TWIN CULVERTS ON CEDAR STREET OCTOBER, 2014. BORING LOGS ARE APPENDED TO THE SPECIFICATIONS AND ARE SHOWN IN PROFILE FOR INFORMATIONAL PURPOSES ONLY. BORINGS MAY NOT BE SHOWN AT EXACT LOCATIONS ALONG THE PIPE ALIGNMENT.
4. NOTES PERTAINING TO NEW WORK SHOWN THUS: ← NEW WORK
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH METROPOLITAN DISTRICT STANDARD SPECIFICATIONS AND DETAILS.
6. THE ENGINEER MAY DIRECT THE CONTRACTOR TO VARY THE PROPOSED WORK DURING CONSTRUCTION TO ADDRESS EXISTING CONDITIONS.
7. THE CONTRACTOR IS HEREBY ADVISED THAT ALL LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS, UTILITY HOUSE SERVICES ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THERE BE OTHER THAN SHOWN. LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AS REPRESENTED BY UTILITY DRAWINGS, THEREFORE THEIR ACTUAL LOCATIONS MAY VARY.IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE METHODS AND SHALL OBTAIN INFORMATION FROM UTILITY COMPANIES AND INDIVIDUALS AS TO THE LOCATION OF ALL SUB–SURFACE STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR EXCAVATE IN ANY AREA PRIOR TO SERVICE.
8. "CALL BEFORE YOU DIG": THE CONTRACTOR IS HEREBY REMINDED THAT "CALL BEFORE YOU DIG" MARK–OUTS BY THE APPROPRIATE UTILITY COMPANY ARE REQUIRED. THE CONNECTICUT GENERAL STATUTES REQUIRE NOTICE TO UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL CALL 1–800–922–4455 AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION.
9. "UTILITY IDENTIFICATION TAPE": AFTER PLACING APPROXIMATELY 2 FEET OF BACKFILL MATERIAL OVER ALL UTILITY PIPING, THE CONTRACTOR SHALL PLACE A 6–INCH WIDE NON–DETECTABLE STRIP OF DURABLE, COLOR CODED (RED FOR ELECTRIC; YELLOW FOR GAS OR OIL; ORANGE FOR COMMUNICATIONS; BLUE FOR WATER; GREEN FOR SANITARY AND STORM SEWER) UNDERGROUND UTILITY IDENTIFICATION TAPE IMPRINTED WITH AN APPROPRIATE WARNING INDICATING THE PRESENCE OF THE BURIED UTILITY.
10. THE LOCATION, SIZE AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND THE LOCATION OF PROPERTY LINES SHOWN ON THESE PLANS ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL ARE SHOWN. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR.
11. STORM, SANITARY, WATER, GAS, TELEPHONE, CABLE, ELECTRICAL SERVICES, FIBER OPTIC COMMUNICATIONS, OVERHEAD UTILITIES AND OTHER UTILITY SERVICES TO BUILDINGS ARE NOT ALL SHOWN. UTILITY SERVICES TO BUILDINGS THAT ARE SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL ARE SHOWN. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL ASSUME THAT EACH PROPERTY WILL HAVE SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES. ALL SERVICES AND UTILITIES SHALL BE PROTECTED FROM DAMAGE AND SHALL BE RECONNECTED OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO SAFETY ISSUES RELATED TO ELECTRICAL FACILITIES, BOTH OVERHEAD AND UNDERGROUND.
12. GAS MAINS AND TELEPHONE LINES ARE ASSUMED TO HAVE THREE (3) FEET OF COVER UNLESS SHOWN OTHERWISE.
13. WATER MAINS ARE ASSUMED TO HAVE FOUR AND A HALF (4.5) FEET OF COVER UNLESS SHOWN OTHERWISE.
14. TELEPHONE AND ELECTRICAL VAULTS ARE ASSUMED TO HAVE SIX (6) INCH CONCRETE WALL THICKNESS.
15. GAS MAIN AND SERVICE RELOCATION WORK, IF NECESSARY, WILL BE COORDINATED WITH ENGINEER AND CONTRACTOR, AND WILL BE DONE BY CONNECTICUT NATURAL GAS COMPANY AT THE OWNERS EXPENSE. TEST PITS SHALL BE PERFORMED PRIOR TO PIPE INSTALLATION FOR SUSPECT GAS MAIN AND SERVICE CONFLICTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES, AS WELL ANY REPAIR AND/OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION WHETHER ABOVE OR BELOW GRADE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL UTILITY RELOCATION WORK. CLAIMS FOR EXTRAS WILL NOT BE ALLOWED FOR DELAY OF WORK DUE TO UTILITY COMPANY COORDINATION OR UTILITY RELOCATION WORK.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER OF ANY SUBSURFACE UTILITY OR OTHER PIPE NOT SHOWN ON THE DRAWINGS THAT IS ENCOUNTERED DURING CONSTRUCTION.
19. EXTREME CARE MUST BE EXERCISED BY THE CONTRACTOR TO PROTECT EXISTING SANITARY SEWERS, SANITARY SEWER LATERALS, STORM DRAINS, WATER MAINS AND ALL OTHER UTILITIES DURING CONSTRUCTION.
20. THIS CONTRACT REQUIRES WORKING IN LIVE SEWER AND DRAINAGE INFRASTRUCTURE. CONTRACTOR AND THEIR PERSONNEL SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR SAFETY WHEN IN CONFINED SPACES. ALSO REFER TO RECOMMENDATIONS IN THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH PUBLICATION NO. 80–106, "WORKING IN CONFINED SPACES".
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING FLOWS IN EXISTING SANITARY SEWERS, SEWER SERVICE LATERALS, STORM DRAINAGE SYSTEMS, AND FOR OBTAINING ALL PERMITS, AS SPECIFIED.
22. ALL DEWATERING SHALL BE DIRECTED TO COMBINED OR SANITARY SEWERS AT LOCATIONS AS APPROVED BY THE ENGINEER. DO NOT DISCHARGE GROUND WATER TO STORM DRAINS. ALL DEWATERING ACTIVITIES SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS AND CTDEEP REGULATIONS. THE CONTRACTOR SHALL NOT COMMENCE DEWATERING DISCHARGE WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER OR OWNER, AS SPECIFIED.
23. NOT ALL TEST PIT LOCATIONS ARE SHOWN ON THE PLANS. EXCAVATE TEST PITS IN LOCATIONS AS DIRECTED BY THE ENGINEER. TEST PITS SHALL BE DUG TO ADJUST PIPING AS REQUIRED BY THE ENGINEER.
24. ALL PIPE SECTIONS SHOWING LENGTHS IN LINEAR FEET ARE TWO–DIMENSIONAL MEASUREMENTS TAKEN FROM CENTER TO CENTER OF EACH ADJOINING MANHOLE.
25. UNLESS OTHERWISE NOTED, PVC PIPE SHALL BE SDR 35, DI PIPE FOR SEWER SHALL BE CLASS 52 LINED WITH PROTECTO 401 INTERIOR COATING, DI PIPE FOR WATER SHALL BE CLASS 54 AND RC PIPE SHALL BE CLASS IV.
26. UNLESS OTHERWISE NOTED, MANHOLES FOR NEW SEWER AND DRAIN PIPES SHALL BE STANDARD MANHOLES AS SPECIFIED. 4–FOOT OR 5–FOOT DIAMETER MANHOLES SHALL BE TYPE II AS SPECIFIED. TYPE IV MANHOLES SHALL BE USED FOR MANHOLES THAT REQUIRE INTERIOR DROP CONNECTIONS. 6–FOOT AND 8–FOOT DIAMETER MANHOLES SHALL BE STANDARD PRECAST MANHOLES FROM APPROVED MANUFACTURERS. MANHOLE LOCATIONS ARE APPROXIMATE AND IN SOME CASES MAY BE ALTERED TO MINIMIZE PIPE CUTTING OR FOR OTHER APPROVED REASONS AS DIRECTED BY OWNER AND ENGINEER.
27. SILT SACKS SHALL BE PLACED AROUND ALL CATCH BASINS SUBJECT TO RUNOFF FROM CONSTRUCTION AREAS.
28. EXISTING CATCH BASINS SHALL BE REMOVED AND REPLACED AT LOCATIONS SHOWN ON THE PLANS. ALL EXISTING CATCH BASIN LATERALS SHALL BE REDIRECTED TO NEW DRAINS. CONNECTIONS TO EXISTING COMBINED SEWER SHALL BE ABANDONED BY FLOWABLE FILL AND BULKHEADED WITH BRICK. THE LOCATION OF NEW CATCH BASINS ARE APPROXIMATELY SHOWN. FINAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
29. AT CONNECTION BETWEEN EXISTING AND NEW PIPES, SLEEVES, NIPPLES AND ACCESSORIES NECESSARY FOR MAKING CONNECTIONS MAY NOT BE SHOWN IN THE DETAILS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS AS NECESSARY FOR CONNECTING TO EXISTING PIPES AND AS INDICATED IN THE SPECIFICATIONS.
30. THE CONTRACTOR SHALL PROVIDE THE OWNER, LOCAL FIRE/POLICE AUTHORITIES, SCHOOL DEPARTMENT, LOCAL BUSINESSES AND PUBLIC TRANSPORTATION AGENCIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING WHEN WORKING IN THE PUBLIC WAY. COMMUNICATION AND COORDINATION BETWEEN OWNER, CONTRACTOR, LOCAL FIRE/POLICE AUTHORITIES, SCHOOL DEPARTMENTS, LOCAL BUSINESSES AND PUBLIC TRANSPORTATION AGENCIES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

SEWER REHABILITATION GENERAL NOTES

1. ANY POINT REPAIRS SHALL BE COMPLETED PRIOR TO INSTALLATION OF CURED–IN–PLACE PIPE LINING FOR SEWER MAINS SCHEDULED TO RECEIVE BOTH TYPES OF WORK. INSTALLATION OF CURED–IN–PLACE PIPE SPOT LINER FOR EXISTING PIPES SHALL BE COMPLETED PRIOR TO CURED–IN–PLACE PIPE LINING. MANHOLE FRAME AND COVER REPLACEMENT, INCLUDING MANHOLE CHIMNEY REPLACEMENT, SHALL BE COMPLETED PRIOR TO MANHOLE MONOLITHIC LINING. MANHOLE MONOLITHIC LINING SHALL BE COMPLETED PRIOR TO INTERNAL CHIMNEY LINING. COORDINATE ALL WORK AS REQUIRED.
2. ALL EXISTING SEWER SERVICE LATERALS ARE TO BE REINSTATED AFTER MAINLINE REHABILITATION UNLESS CONFIRMED BY OWNER TO BE ABANDONED.

SURFACE RESTORATION GENERAL NOTES

1. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBING, SIDEWALKS, SIDEWALK RAMPS, STAIRS, WALKWAYS, LIGHT POLES, ETC. SHALL BE SUPPORTED OR REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT, AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE THE ADJUSTMENT OF ALL EXISTING UTILITIES WITH EACH RESPONSIBLE OWNER PRIOR TO RECONSTRUCTION AND/OR PAVING OPERATIONS. ALL STRUCTURES SHALL BE RAISED TO FINISH GRADES PRIOR TO THE END OF THE CONSTRUCTION SEASON AND PRIOR TO FINISHING PAVING, AS DIRECTED BY THE ENGINEER.
3. TRENCH WIDTH PAVEMENT SHALL BE RESTORED AT THE END OF EACH WORK DAY, UNLESS OTHERWISE APPROVED BY THE OWNER. TEMPORARY PAVEMENT SHALL BE PLACED OVER ALL DISTURBED SIDEWALKS AND DRIVEWAYS AT THE END OF EACH DAY, UNLESS OTHERWISE APPROVED BY THE OWNER.
4. ALL PAVEMENT DISTURBED OR DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE CONTRACT DRAWINGS.
5. IF EXISTING MAGNETIC OR TRAFFIC LOOP DETECTORS ARE REMOVED IN THE COURSE OF EXCAVATION, THEY SHALL BE REPLACED WITH NEW TRAFFIC LOOP DETECTORS IN ACCORDANCE WITH CITY OR TOWN STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE DIRECTED.
6. CONTRACTOR WILL MAINTAIN AND/OR PROVIDE OSHA SAFE PEDESTRIAN WALKWAYS IN ALL DISTURBED AREAS DURING CONSTRUCTION. PEDESTRIAN TRAFFIC SHALL BE ACCOMMODATED WHERE A SIDEWALK IS TO BE CLOSED FOR SAFETY "SIDEWALK CLOSED HERE." SIGNS SHALL BE USED AT THE NEAREST SAFE INTERSECTION. SEE TRAFFIC CONTROL DETAILS FOR SIGN INFORMATION.
7. THE CONTRACTOR SHALL TRANSFER ALL TEMPORARY BENCHMARKS AS NECESSARY.
8. SAW CUT ALL BITUMINOUS CONCRETE DRIVEWAYS, DRIVEWAY APRONS, WALKWAYS AND SIDEWALKS AT EDGE OF TRENCH EXCAVATION OR AS DIRECTED BY THE ENGINEER. CONCRETE SIDEWALKS SHALL BE SAW CUT AT THE NEAREST JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORATION OF BITUMINOUS CONCRETE SIDEWALKS OR WALKWAYS SHALL BE TRENCH WIDTH ONLY AND SHALL MATCH EXISTING DEPTH AND WIDTH. RESTORATION OF BITUMINOUS CONCRETE DRIVEWAYS AND DRIVEWAY APRONS SHALL BE FULL WIDTH AND SHALL MATCH EXISTING DEPTH AND WIDTH. RESTORATION OF CONCRETE SIDEWALKS SHALL BE JOINT TO JOINT AS REQUIRED AT EACH LOCATION AND SHALL MATCH EXISTING DEPTH AND WIDTH.TRENCH–WIDTH PAVEMENT SHALL BE RESTORED AT THE END OF EACH WORK DAY, UNLESS OTHERWISE APPROVED BY THE OWNER OR CITY OF HARTFORD. TEMPORARY PAVEMENT SHALL BE PLACED OVER ALL DISTURBED SIDEWALKS AND DRIVEWAYS AT THE END OF EACH DAY, UNLESS OTHERWISE APPROVED BY THE OWNERS.
9. SIDEWALK AND RAMP RESTORATION TO INCLUDE RESTORATION BACK TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION WITH RESPECT TO DEPTH, WIDTH AND MATERIALS. TRENCH BACKFILL UNDER ROADWAYS AND WALKWAYS SHALL BE BASED ON THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE STANDARD DETAILS.
10. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE MATERIALS NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK AND AS REQUIRED BY THE OWNER. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
11. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

WATER IMPROVEMENTS GENERAL NOTES

1. WATER MAIN WILL BE INSTALLED IN ACCORDANCE WITH THE METROPOLITAN DISTRICT STANDARD SPECIFICATIONS AND DETAILS.
2. ALL FEDERAL AND STATE OSHA SAFETY STANDARDS MUST BE FOLLOWED DURING WATER MAIN INSTALLATIONS AND TESTING, INCLUDING 29 CFR 1926.650 – 1926.652, THAT ADDRESS EXCAVATION WORK AND REQUIREMENTS FOR PROTECTIVE SYSTEMS.
3. TEST PITS SHALL BE DUG WELL IN ADVANCE OF THE WATER MAIN INSTALLATION TO DETERMINE POSSIBLE OFFSETS ABOVE OR BELOW OTHER UTILITIES, STRUCTURES OR OBSTACLES.
4. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A MATERIALS LIST, FOR APPROVAL, PRIOR TO THE INSTALLATION OF THE PROPOSED WATER MAIN.
5. ALL WATER MAIN AND APPURTENANCES SHALL BE STAKED (SURVEYED) OUT BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. THE SURVEY SHALL INCLUDE AN OFFSET LINE OR STREET LINE EVERY FIFTY FEET (50'0"), FINAL ROAD OR SURFACE ELEVATION.
6. TEST PRESSURE SHALL BE 150 PSI UNLESS OTHERWISE DIRECTED BY THE OWNER.
7. GATE OPERATIONS SHALL BE "OPEN LEFT" UNLESS OTHERWISE SHOWN ON THE GATE OPERATION INDEX (FIGURE 46, WATER STANDARD DETAILS) OR DIRECTED BY THE OWNER.
8. MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN SHALL BE 4.5 FEET AS MEASURED FROM THE UNDERSIDE OF THE PAVEMENT TO THE TOP OF THE PIPE UNLESS OTHERWISE NOTED.
9. ALL WATER MAINS SHALL BE CLASS 54 ANSI/AWWA C151/A21.51–09 DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS FOR WATER OR OTHER LIQUIDS.
10. WHERE ROCK IS ENCOUNTERED DURING THE INSTALLATION OF THE PROPOSED WATER MAIN, THE PROPOSED MAIN SHALL BE LAID ON A PRE–COMPACTED BED OF APPROVED MATERIAL A MINIMUM SIX INCHES (6") IN DEPTH.
11. ALL FITTINGS, UNLESS OTHERWISE SPECIFIED, SHALL BE MECHANICAL JOINT AND SHALL BE INSTALLED WITH RESTRAINT IN EACH DIRECTION. ALL JOINTS WITHIN THE SHADED AREAS (   ) SHALL BE RESTRAINED.
12. WHERE RESTRAINT IS INDICATED, APPROVED RETAINER GLANDS OR RODDING MAY BE UTILIZED.
13. WHERE "PULLING" OR DEFLECTING PIPE IS INDICATED, SUCH DEFLECTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF "THE DIPRA HANDBOOK." IN NO CASE SHOULD THE DEFLECTION BE GREATER THAN FIVE DEGREES.
14. ALL GATE VALVES, AIR VALVES AND BLOWOFFS SHALL BE INSTALLED COMPLETE WITH DISTRICT APPROVED GATE BOXES AND APPURTENANCES UNLESS OTHERWISE NOTED.
15. GATE NUT EXTENSION STEMS REQUIRED WHERE GATE VALVE NUTS ARE PLACED AT A DEPTH GREATER THAN 4.5 FEET BELOW FINAL GRADE.
16. CONCRETE COLLARS FOR FIRE HYDRANTS SHALL BE INSTALLED PRIOR TO THE METROPOLITAN DISTRICT PLACING THE WATER MAIN INTO SERVICE.
17. MAINTAIN A MINIMUM DISTANCE OF 10 FEET (10'0") HORIZONTAL BETWEEN THE WATER MAIN AND ANY EXISTING OR PROPOSED SANITARY SEWER. WHEN LOCAL CONDITIONS PREVENT THIS, A LESSER DISTANCE IS ALLOWED IF (A) THE WATER MAIN IS IN A SEPARATE TRENCH, OR (B) IT IS LOCATED IN THE SAME TRENCH TO ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH AT LEAST TWELVE INCHES (12"), AND PREFERABLY EIGHTEEN INCHES (18") HORIZONTAL SEPARATION BETWEEN THE EDGES OF THE SEWER PIPE AND THE WATER MAIN. IN EITHER CASE, THE BOTTOM OF THE WATER MAIN SHALL BE EIGHTEEN INCHES ABOVE THE CROWN OF THE SEWER PIPE.
18. WHERE THE WATER MAIN IS TO BE INSTALLED BELOW DRAIN PIPE, MAINTAIN A MINIMUM OF 18 INCHES BETWEEN THE BOTTOM OF STORM DRAIN AND THE CROWN OF THE WATER MAIN.
19. CONTRACTOR SHALL ASSIST THE OWNER STAFF WITH THE FILLING, FLUSHING AND TESTING OF THE WATER MAIN. THE CONTRACTOR SHALL ABIDE BY THE DISTRICT'S STANDARDS FOR DISINFECTING WATER MAINS, INCLUDING PROPERLY NEUTRALIZING THE CHLORINATED WATER AND DISCHARGING THE WATER ACCORDINGLY.
20. CONTRACTOR SHALL REMOVE AND DISPOSE OF ABANDONED WATER MAIN/ SERVICES AND APPURTENANCES WHEN THEY ARE WITHIN TRENCH OF NEW WATER MAIN OR SERVICES.
21. ALL OPERATIONS OF THE EXISTING WATER MAINS AND THEIR VALVES ARE THE RESPONSIBILITY OF THE DISTRICT. THE CONTRACTOR SHALL COORDINATE THE ACTIVATION AND DEACTIVATION OF ANY WATER MAIN AND THE OPERATION OF ANY VALVES WITH THE DISTRICT OPERATIONAL STAFF. ALL WORK TO ISOLATE THE WATER MAINS REQUIRED FOR THE PROJECT WILL BE THE RESPONSIBILITY OF THE DISTRICT. THIS SHALL INCLUDE THE USE OF EXISTING VALVES, INSTALLATION OF NEW ISOLATION VALVES, OR CUTTING/CAPPING/RESTRAINING EXISTING WATER MAINS AS REQUIRED TO ISOLATE THE WATER MAIN FOR THE CONTRACTOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE CONTRACTOR WILL INSTALL NEW WATER MAIN AND APPURTENANCES, WHICH SHALL BE INSPECTED, TESTED, DISINFECTED, AND ACCEPTED BY THE DISTRICT PRIOR TO ACTIVATION. ALL OPERATIONS OF HYDRANTS AND USE OF THE DISTRICT WATER SHALL MEET THE DISTRICT REQUIREMENTS.
22. WHERE NEW WATER MAINS ARE TO BE INSTALLED, ALL EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER SERVICE TO ALL CUSTOMERS DURING CONSTRUCTION.
23. THE DISTRICT WILL PERFORM ALL WATER SERVICE CONNECTION TAPS ON NEW WATER MAINS. CONTRACTOR SHALL PERFORM ALL EXCAVATION, TRENCH SUPPORT, DEWATERING, BACKFILLING, COMPACTION, AND SURFACE RESTORATION. FOR ALL SERVICES 4" AND GREATER, THE CONTRACTOR SHALL INSTALL A TEE AND GATE VALVE (LEFT IN CLOSED POSITION AND SIZED TO MATCH EXISTING SERVICE) DURING CONSTRUCTION OF THE NEW MAIN IN LIEU OF HAVING THE DISTRICT INSTALL A SERVICE TAP AT A LATER DATE (DISTRICT TO PROVIDE MDC SAMPLING AND TESTING POLICIES).
24. CONTRACTOR SHALL PLUG OR BULKHEAD OPEN ENDS OF ABANDONED WATER PIPES.

ABBREVIATIONS

AARV	AUTOMATIC AIR RELEASE VALVE
ABD, ABDN	ABANDONED
AC, ACP	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AV	AIR VALVE
BC	BITUMINOUS CONCRETE
BCC	BITUMINOUS CONCRETE CURB
BGS	BELOW GROUND SURFACE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BOE	BOTTOM OF EXPLORATION
BRK	BRICK
BSMT	BASEMENT
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN, CONCRETE BLOCK
CC	CONCRETE CURB
CHN LK	CHAIN LINK
CI	CAST IRON
CIPP	CURED–IN–PLACE PIPE
℄ PL SL	CENTERLINE, PROPERTY LINE, STREETLINE
CL	CEMENT LINED
CL&P	CONNECTICUT LIGHT & POWER
CMP	CORRUGATED METAL PIPE
CNI	COULD NOT IDENTIFY
CON, CONC	CONCRETE
CONN	CONNECT/CONNECTION
COV.	COVER
CP	PRECAST CONCRETE
CS	COMBINED SEWER
CT	COPPER TUBING
CT DEEP	CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
CTG	CLAY TILE GLAZED (PIPE)
CTUG	CLAY TILE UNGLAZED (PIPE)
CU FT	CUBIC FEET
CW	CHILLED WATER
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DE	DEAD END
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DS	DOUBLE STRENGTH
DWG	DRAWING
E	EAST OR ELECTRICAL
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EX, EXIST.	EXISTING
FB	FORD BOX
FF	FIRST FLOOR
FL	FLOW LINE
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
GS	GAS SERVICE
GV	GATE VALVE
HC	HOUSE CONNECTION
HDPE	HIGH DENSITY POLYETHYLENE
H, HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HSE	HOUSE
HYD	FIRE HYDRANT
I	INVERT (NEW)
Ii	INVERT IN (NEW)
INV	INVERT
Io	INVERT OUT (NEW)
I.D.	INSIDE DIAMETER
IP	IRON PIPE
kV	KILOVOLTS
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
N/F	NOW OR FORMERLY
NO OR #	NUMBER
O.D.	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PED RAMP	PEDESTRIAN RAMP
PIP	PLASTIC IRRIGATION PIPE
PIV	PRESSURE INDICATOR VALVE
PL	PLASTIC PIPE OR PLATE
PROP	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PVD	PAVED
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RCCP	REINFORCED CONCRETE CYLINDER PIPE
REC	RECORD DRAWING
RMC	REINFORCED METAL CONDUIT
R.O.W.	RIGHT–OF–WAY
RQD	ROCK QUALITY
R&R	REMOVE AND REPLACE
RTWL	RETAINING WALL
S	SEWER OR SOUTH
SAN	SANITARY
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SL	SEWER LATERAL
SMH	SEWER MANHOLE
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
STA	STATION
ST	STREET
STL	STEEL
ST.LT.	STREET LIGHT
STM	STORM
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
TEL	UNDERGROUND TELEPHONE
TF	TOP OF FRAME
THK	THICK (NESS)
TP	TEST PIT
TRAV	TRAVERSE POINT (SURVEY)
TRP	TRANSIT PIPE
TYP	TYPICAL
UC	UNDERGROUND CONDUIT
UE	UNDERGROUND ELECTRIC
UP	UTILITY POLE
VC/VCP	VITRIFIED CLAY OR CLAY TILE PIPE
V, VERT	VERTICAL
W	WATER OR WEST
W/	WITH
W/O	WITHOUT
WG	WATER GATE
WI/WICL	WROUGHT IRON/ WROUGHT IRON CEMENT LINED
WS	WATER SERVICE

ADDITIONAL PROJECT NOTES

1. SEWER SERVICE LATERALS SHALL HAVE A 2% SLOPE MINIMUM, ASSUMING THE EXISTING LATERAL ARE AT LEAST 2%.
2. THE CONTRACTOR TO BE RESPONSIBLE FOR REPLACING, REPAIRING OR RELOCATING STATE OWNED STORM DRAINAGE WITHIN THE PROJECT LIMITS AS DETERMINED BY THE STATE OF CONNECTICUT FORCES.
3. ALL TRAFFIC LOOP DETECTORS DAMAGED DURING CONSTRUCTION SHALL REMAIN OPERATIONAL AND MUST BE REPAIRED WITHIN 24 HOURS OF BEING DAMAGED.
4. WORK HOURS FOR CEDAR STREET ARE 8:00 AM TO 3:00 PM, MONDAY–FRIDAY.
5. WORK HOURS FOR WILLARD AVENUE ARE 8:00 AM TO 3:00 PM, MONDAY–FRIDAY STA. 0+20 TO STA. 17+75. WORK ON WILLARD AVENUE IS LIMITED TO THE SUMMER MONTHS WHEN SCHOOL IS NOT IN SESSION. FOR 2018, THE SUMMER PERIOD WHEN SCHIIL IS NOT IN SESSION IS SCHEDULED TO BEGIN ON JUNE 12 (SUBJECT TO CHANGE WITH SNOW DAYS), AND CONCLUDE ON AUGUST 28. FOR 2019, THE SUMMER PERIOD WHEN SCHOOL IS NOT IN SESSION IS SCHEDULED TO BEGIN ON JUNE 13 (SUBJECT TO CHANGE WITH SNOW DAYS). THE SCHEDULE FOR CONCLUSION OF THE SUMMER 2019 PERIOD WILL BE POSTED ON THE NEWINGTON SCHOOL DISTRICT WEBSITE WHEN IT IS AVAILABLE. THESE TIME CONSTRAINTS APPLY TO SURFACE RESTORATION AS WELL AS WATER MAIN CONSTRUCTION.
6. NIGHT WORK IS REQUIRED FOR WORK AT THE CEDAR STREET/ WILLARD AVENUE INTERSECTION AREA. WORK HOURS ARE 10:00 PM TO 5:00 AM. SEE SHEET NO. G–3 (KEY PLAN) FOR LIMITS OF NIGHT WORK.
7. THE CONTRACTOR MAY RE–USE SUITABLE EXCAVATED MATERIALS AS TRENCH BACKFILL, PROVIDED THAT THE MATERIALS MEET THE REQUIREMENTS OF SECTION 02202 FOR THE INTENDED USE.
8. CONTRACTOR SHALL USE PIPE DEFLECTION AS NEEDED TO PASS UNDER EXISTING WATER SERVICES AND DRAINS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. VERTICAL SEPARATION BETWEEN THE NEW MAIN AND EXISTING WATER SERVICES SHALL BE A MINIMUM OF 12 INCHES.

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: GGNA0002
DESIGNED BY: J. COY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X–CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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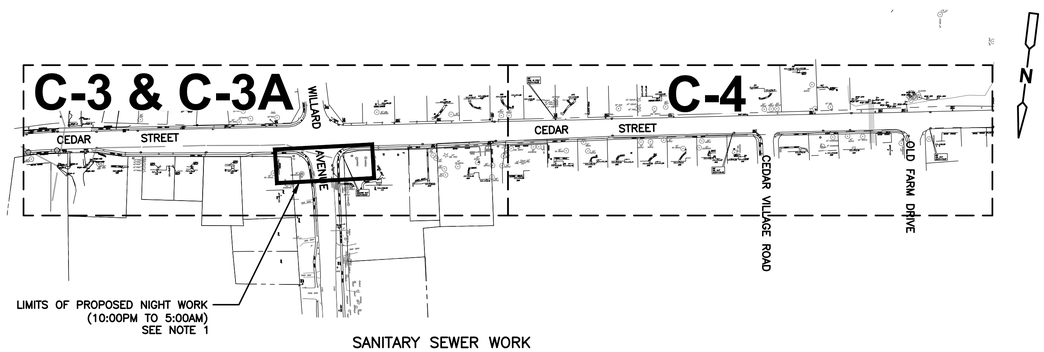
CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

GENERAL NOTES AND ABBREVIATIONS

PLAN NUMBER

SHEET NO.
G-2

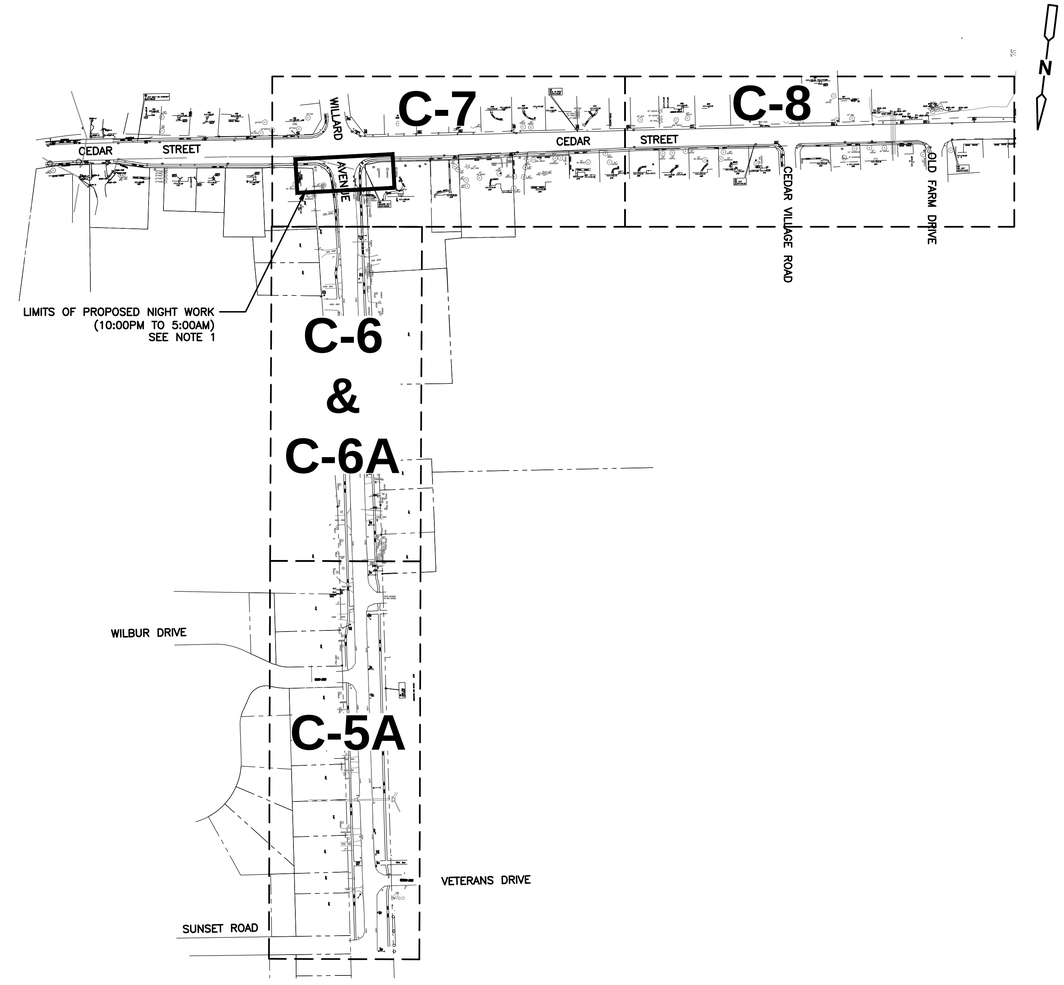
0930–101697



SANITARY SEWER WORK

PLAN

1" = 100'



WATER MAIN WORK

PLAN

1" = 100'

NOTES:

1. ALL NIGHT WORK CROSSING WILLARD AVENUE NEAR THE INTERSECTION OF CEDAR STREET SHALL BE PERFORMED WITHIN APPROXIMATELY A 1-WEEK DURATION, WEATHER DEPENDENT. SEE SPECIFICATION SECTION 01010, SUMMARY OF WORK IN THE SPECIAL PROVISIONS.

1" = 100'

50 0 100

MDC

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Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: GSTPL000
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

KEY PLAN

PLAN NUMBER

SHEET NO.

G-3

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: ☐
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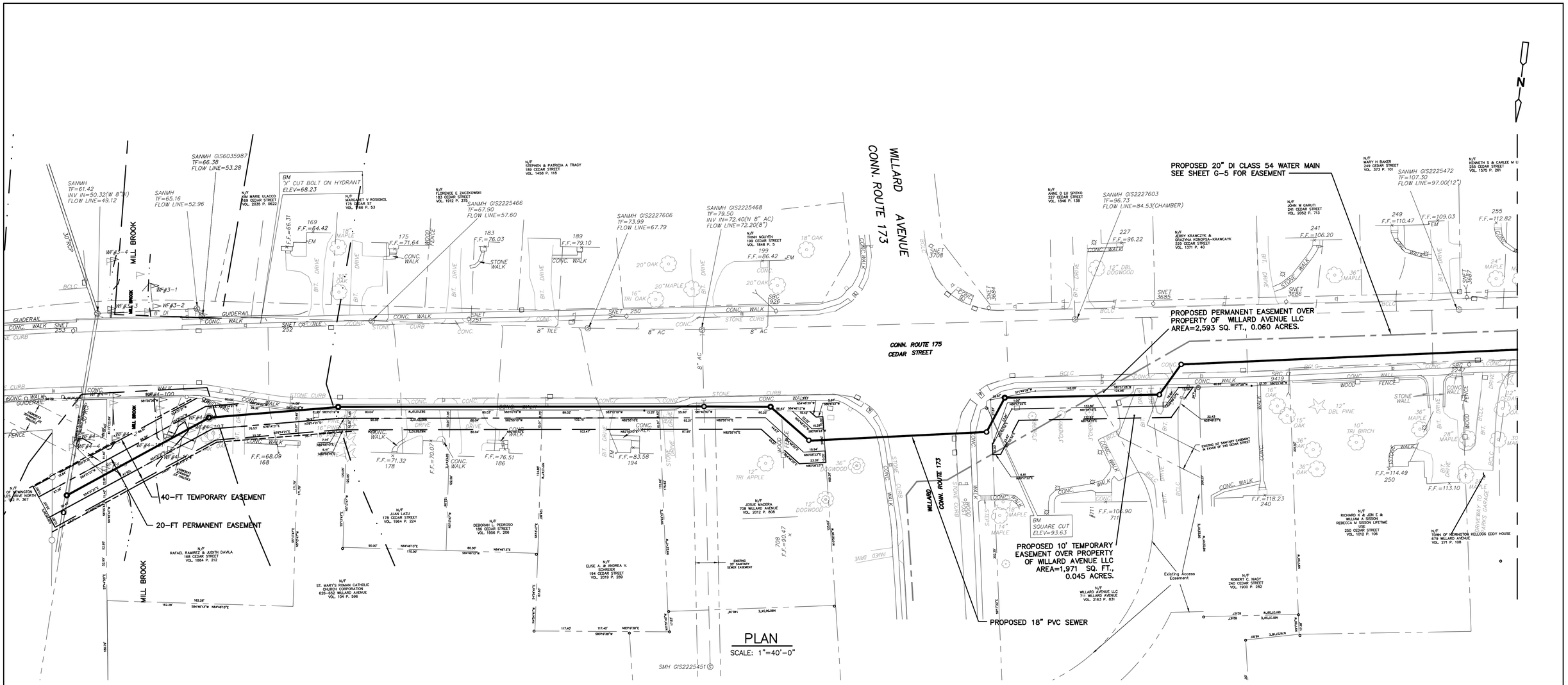

PLAN

SCALE: 1"=40'-0"

LEGEND:

- PROPOSED 20-FT PERMANENT EASEMENT
- PROPOSED 40-FT CONSTRUCTION EASEMENT
- EXISTING PROPERTY LINE

1" = 40'

20 0 40

MDC

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555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: GESPL000
DESIGNED BY: B. BROWN
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SEWER EASEMENT PLAN

PLAN NUMBER

SHEET NO.

G-4

0930-101697

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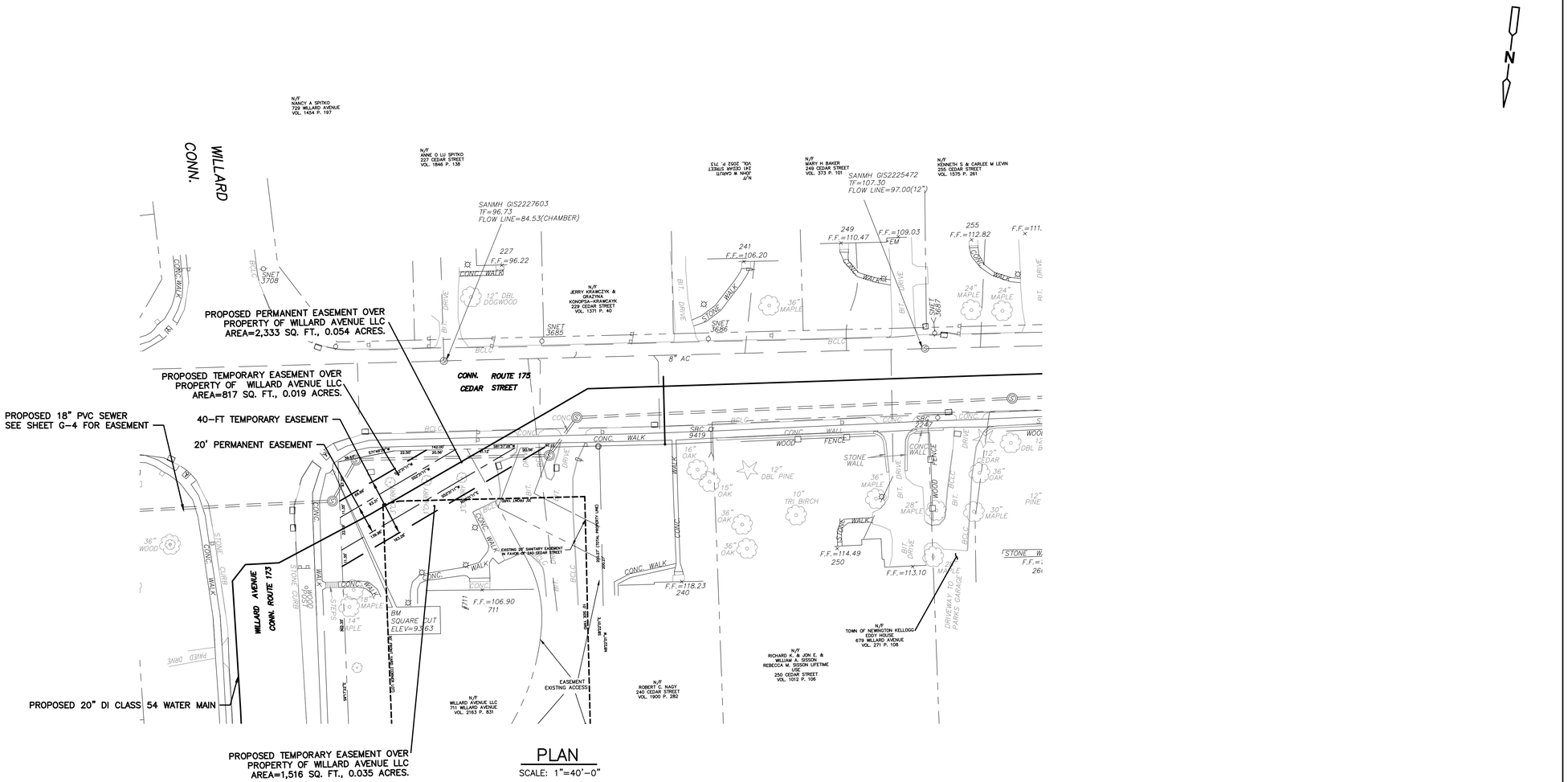

LEGEND:

- PROPOSED 20-FT PERMANENT EASEMENT
- PROPOSED 40-FT CONSTRUCTION EASEMENT
- EXISTING PROPERTY LINE

1" = 40'
20 0 40

MDC The Metropolitan District 555 Main Street Hartford, Connecticut	REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: GESPL005
DESIGNED BY: B. BROWN
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

WATER EASEMENT PLAN

PLAN NUMBER

SHEET NO.
G-5

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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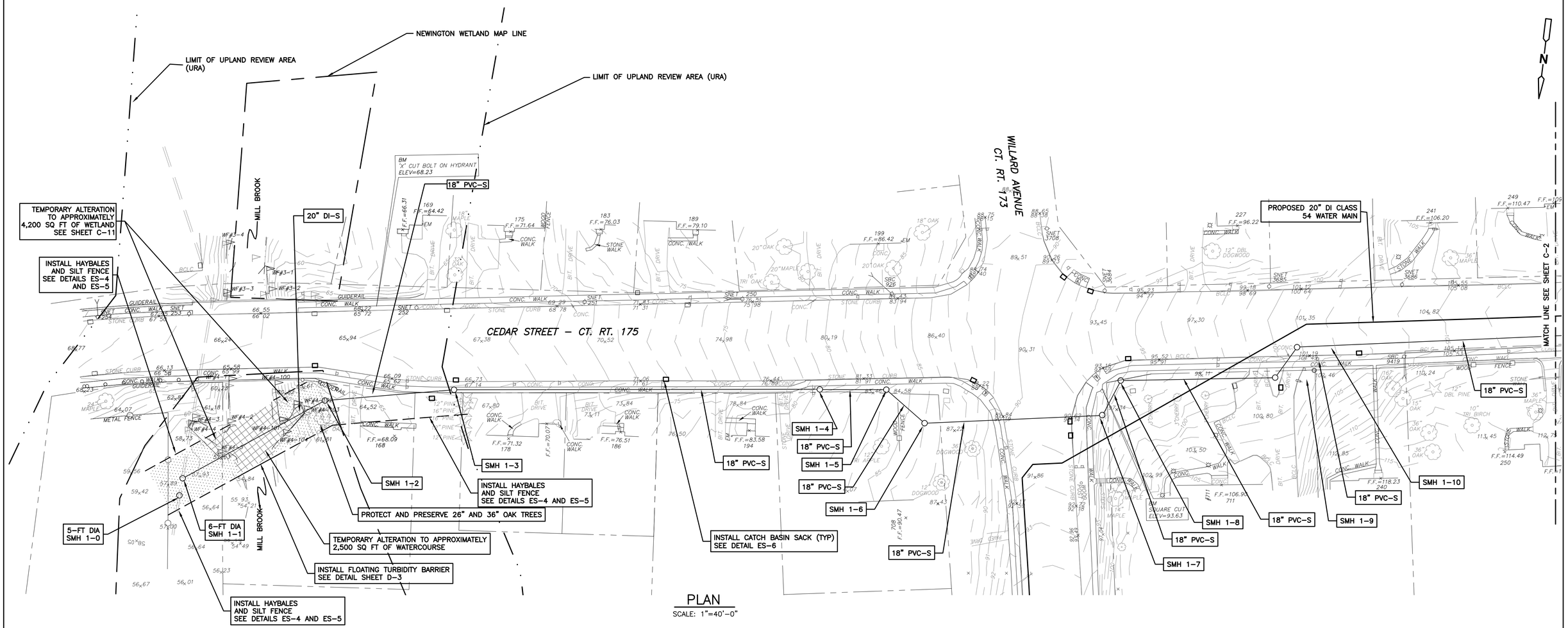

PLAN

SCALE: 1"=40'-0"

LEGEND:

- EXISTING 20-FT SEWER EASEMENT
- EXISTING PROPERTY LINE
- LIMIT OF UPLAND REVIEW AREA (URA)
- SEDIMENTATION AND EROSION CONTROL
- NEWINGTON WETLAND MAP LINE

1" = 40'

20 0 40

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REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP001
DESIGNED BY: J. COY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SEDIMENTATION AND EROSION CONTROL PLAN I

PLAN NUMBER

SHEET NO.

C-1

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 9/30/2012 9:58:54 AM
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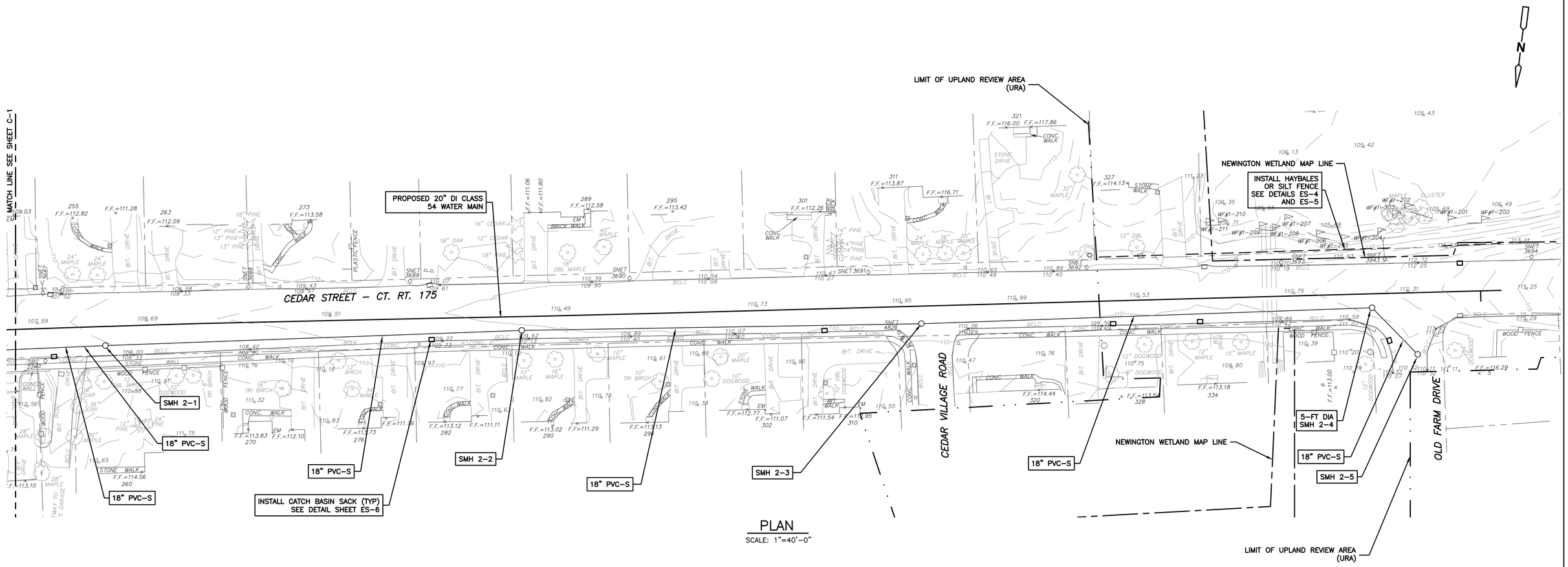

PLAN
SCALE: 1"=40'-0"

LEGEND:

- EXISTING PROPERTY LINE
- LIMIT OF UPLAND REVIEW AREA (URA)
- SEDIMENTATION AND EROSION CONTROL
- NEWINGTON WETLAND MAP LINE

1" = 40'
20 0 40

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP002
DESIGNED BY: J. COY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SEDIMENTATION AND EROSION CONTROL PLAN II

PLAN NUMBER

SHEET NO.
C-2

0930-101697

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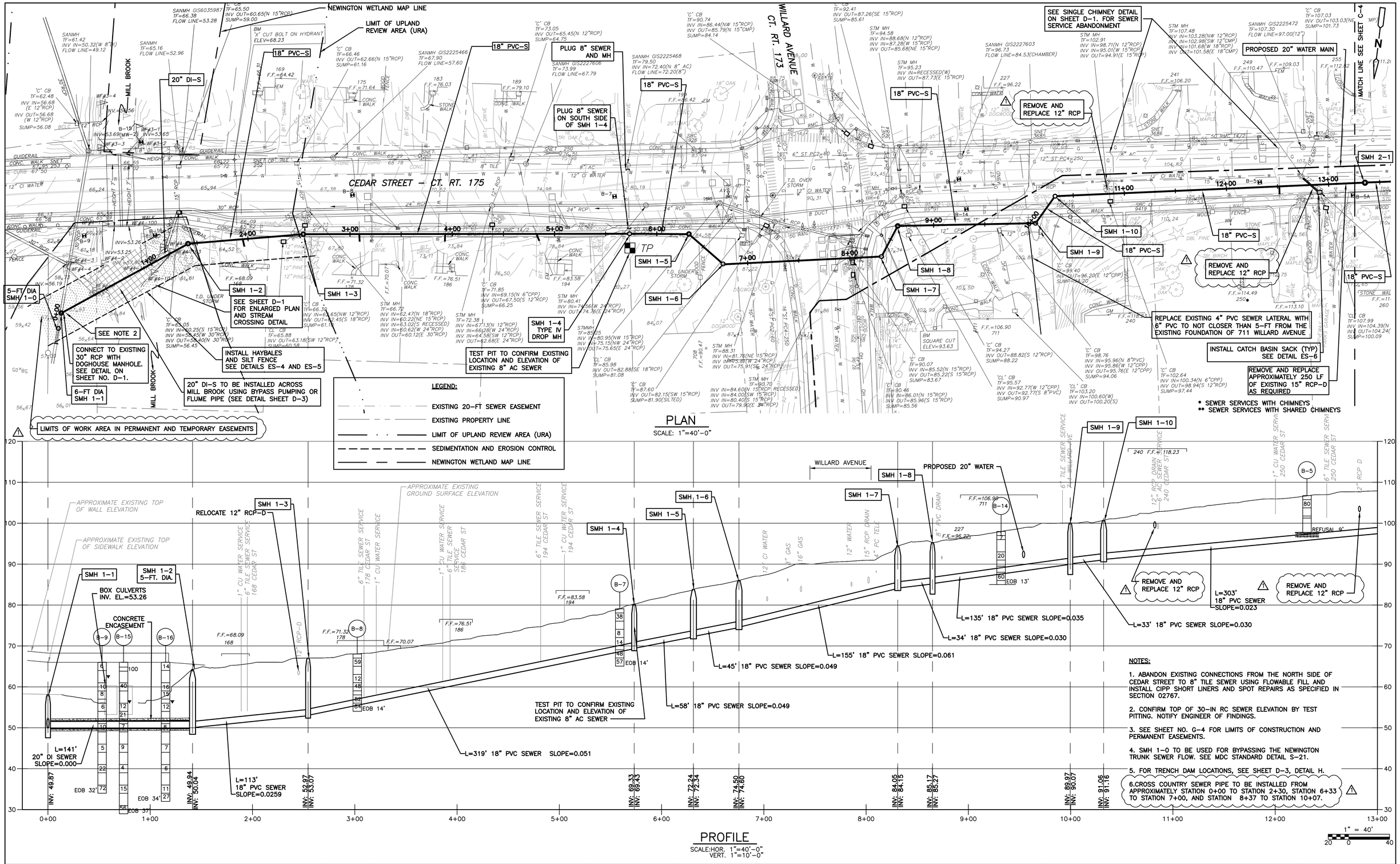

NOTES:

1. ABANDON EXISTING CONNECTIONS FROM THE NORTH SIDE OF CEDAR STREET TO 8" TILE SEWER USING FLOWABLE FILL AND INSTALL CIPP SHORT LINERS AND SPOT REPAIRS AS SPECIFIED IN SECTION 02767.

2. CONFIRM TOP OF 30-IN RC SEWER ELEVATION BY TEST PITTING. NOTIFY ENGINEER OF FINDINGS.

3. SEE SHEET NO. G-4 FOR LIMITS OF CONSTRUCTION AND PERMANENT EASEMENTS.

4. SMH 1-0 TO BE USED FOR BYPASSING THE NEWINGTON TRUNK SEWER FLOW. SEE MDC STANDARD DETAIL S-21.

5. FOR TRENCH DAM LOCATIONS, SEE SHEET D-3, DETAIL H.

6. CROSS COUNTRY SEWER PIPE TO BE INSTALLED FROM APPROXIMATELY STATION 0+00 TO STATION 2+30, STATION 6+33 TO STATION 7+00, AND STATION 8+37 TO STATION 10+07.

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3.30.18	SE	KMB	ADDENDUM NO 3

FILE NAME: CSTPP003
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH P. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SANITARY SEWER
PLAN AND PROFILE I

PLAN NUMBER

SHEET NO.
C-3

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] images: []
Last saved by: ENGELSB Time: 5/30/2012 8:28:49 AM
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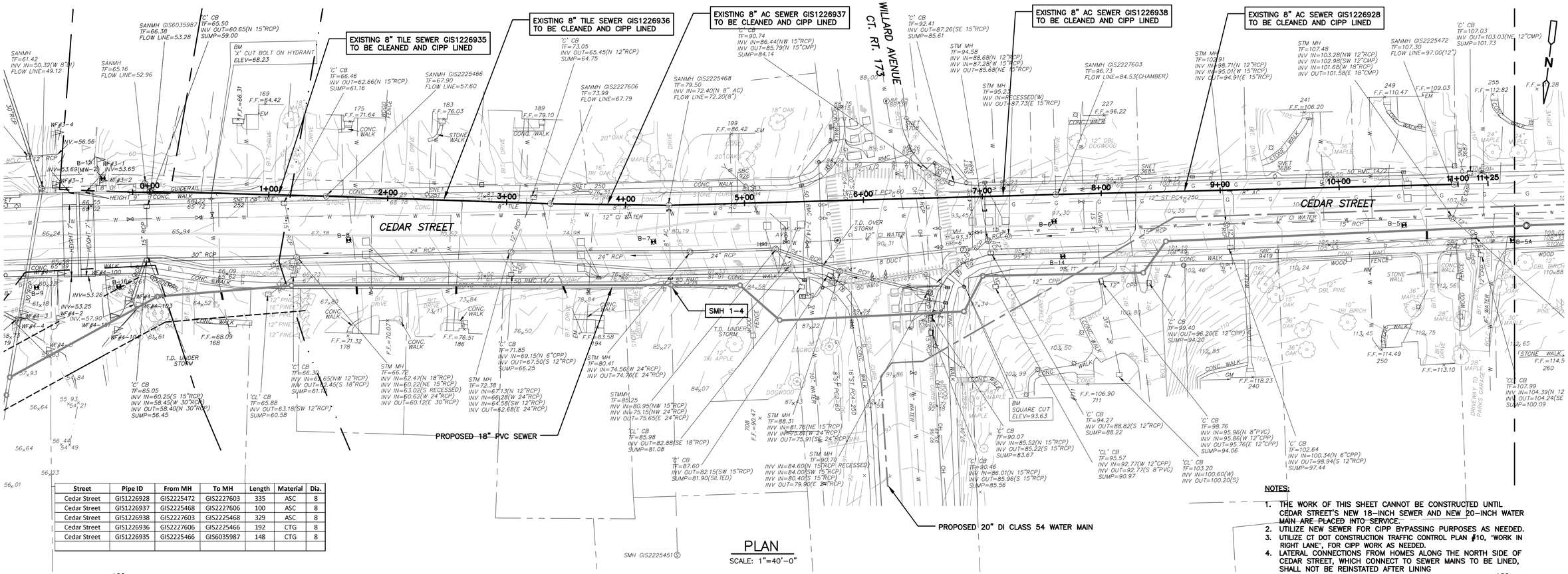


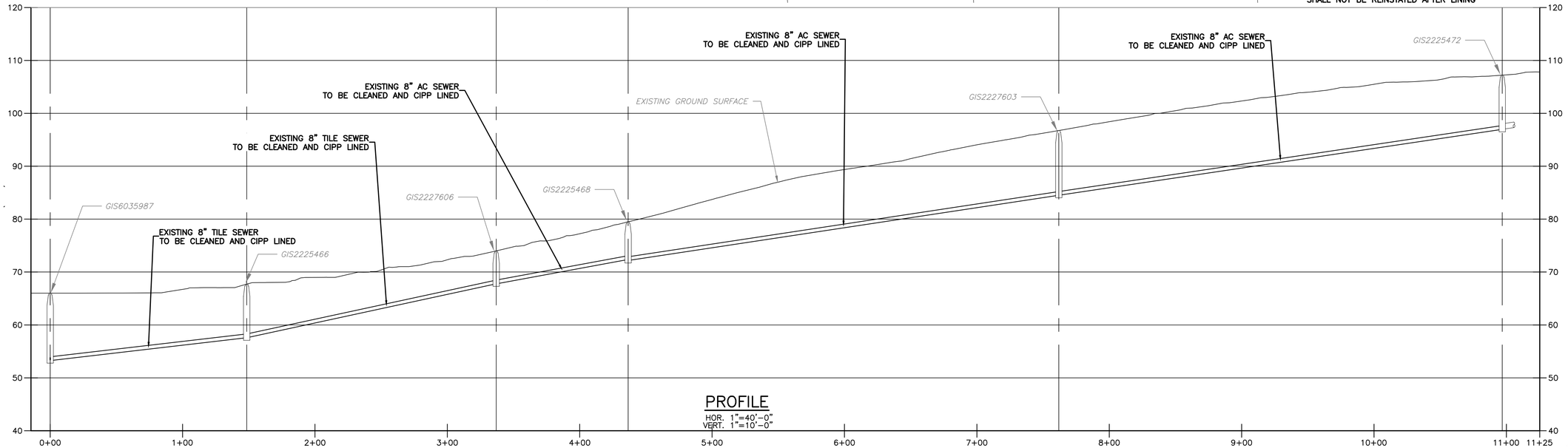
Street	Pipe ID	From MH	To MH	Length	Material	Dia.
Cedar Street	GIS1226928	GIS2225472	GIS2227603	335	ASC	8
Cedar Street	GIS1226937	GIS2225468	GIS2227606	100	ASC	8
Cedar Street	GIS1226938	GIS2227603	GIS2225468	329	ASC	8
Cedar Street	GIS1226936	GIS2227606	GIS2225466	192	CTG	8
Cedar Street	GIS1226935	GIS2225466	GIS6035987	148	CTG	8

PLAN

SCALE: 1"=40'-0"

NOTES:

1. THE WORK OF THIS SHEET CANNOT BE CONSTRUCTED UNTIL CEDAR STREET'S NEW 18-INCH SEWER AND NEW 20-INCH WATER MAIN ARE PLACED INTO SERVICE.
2. UTILIZE NEW SEWER FOR CIPP BYPASSING PURPOSES AS NEEDED.
3. UTILIZE CT DOT CONSTRUCTION TRAFFIC CONTROL PLAN #10, "WORK IN RIGHT LANE", FOR CIPP WORK AS NEEDED.
4. LATERAL CONNECTIONS FROM HOMES ALONG THE NORTH SIDE OF CEDAR STREET, WHICH CONNECT TO SEWER MAINS TO BE LINED, SHALL NOT BE REINSTATED AFTER LINING



PROFILE

HOR. 1"=40'-0"
VERT. 1"=10'-0"

1" = 40'

MDC

The Metropolitan District

555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP003A
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: J. DIERCKS
X-CHK'D BY: K. BIEDRON
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH J. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

EXISTING SEWER - CIPP LINING

PLAN NUMBER

SHEET NO.

C-3A

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 8:22:49 AM
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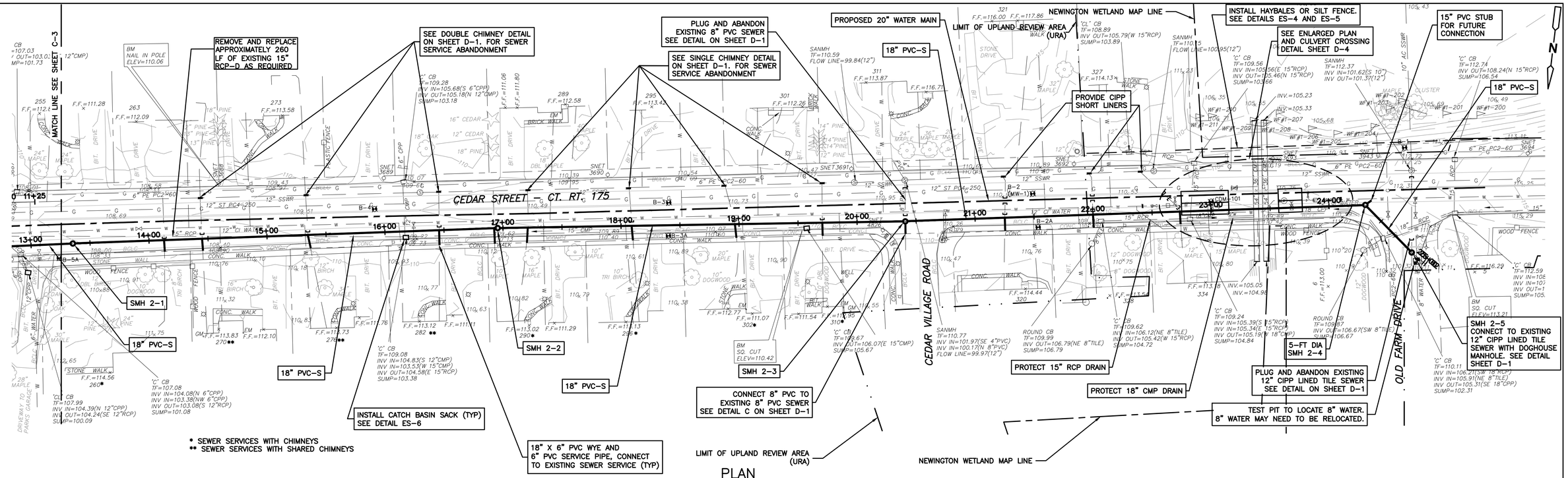


* SEWER SERVICES WITH CHIMNEYS
** SEWER SERVICES WITH SHARED CHIMNEYS

PLAN

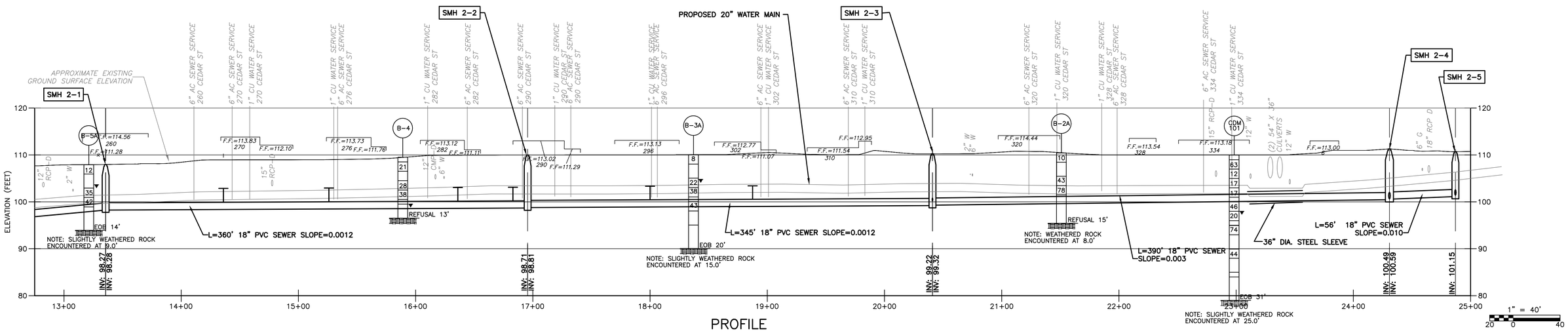
SCALE: 1"=40'-0"

NOTE:

1. ABANDON EXISTING CONNECTIONS FROM THE NORTH SIDE OF CEDAR STREET TO 12" SEWER USING PLUGS AND CIPP SHORT LINERS AS SPECIFIED IN SECTION 02767.
2. FOR TRENCH DAM LOCATIONS, SEE SHEET D-3, DETAIL H.
3. LATERAL CONNECTIONS FROM HOMES #320, 328, AND 334 CEDAR STREET TO EXISTING 12" SEWER MAIN SHALL BE CIPP SHORT LINED TO SEAL OFF.

LEGEND:

- EXISTING PROPERTY LINE
- LIMIT OF UPLAND REVIEW AREA (URA)
- SEDIMENTATION AND EROSION CONTROL
- NEWINGTON WETLAND MAP LINE
- CHIMNEY (PROFILE ONLY)



PROFILE

SCALE:HOR. 1"=40'-0"
VERT. 1"=10'-0"

MDC

The Metropolitan District

555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP004
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28048 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SANITARY SEWER PLAN AND PROFILE II

PLAN NUMBER

SHEET NO. **C-4**

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: 0
Last saved by: ENGELSB Time: 3/30/2012 8:49:38 PM
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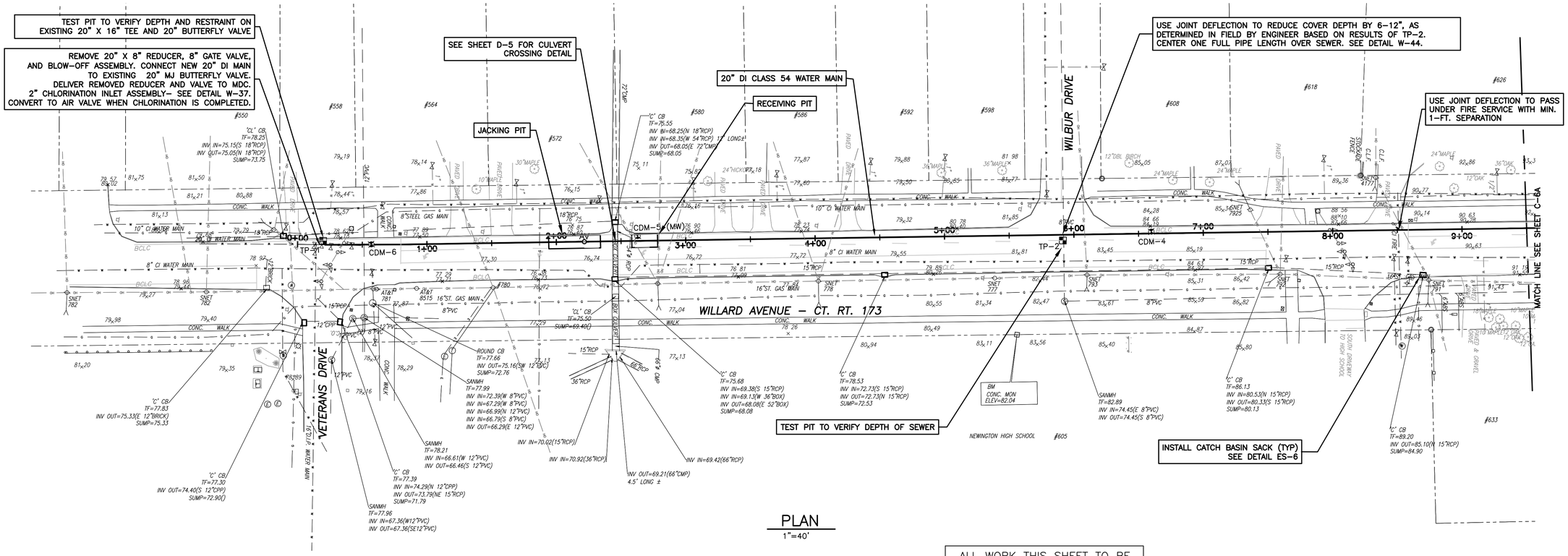
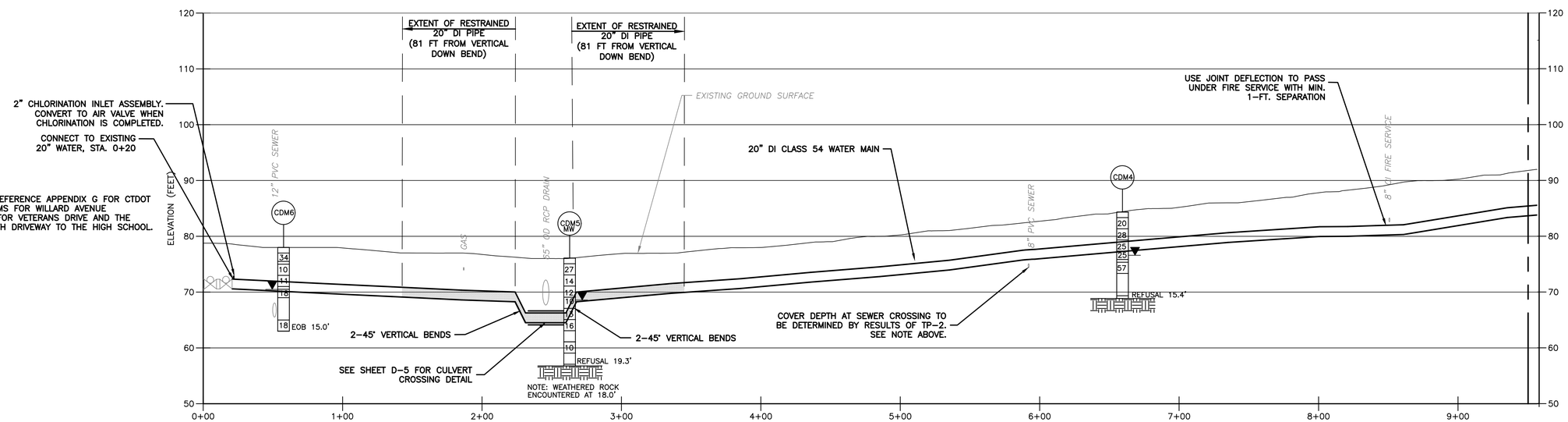


PLAN

1"=40'

ALL WORK THIS SHEET TO BE CONSTRUCTED IF WATER ALTERNATE BID IS AWARDED



NOTE:

1. CONTRACTOR SHALL REFERENCE APPENDIX G FOR CTDOT SIGNALIZATION DIAGRAMS FOR WILLARD AVENUE INTERSECTIONS, ONE FOR VETERANS DRIVE AND THE OTHER FOR THE SOUTH DRIVEWAY TO THE HIGH SCHOOL.

PROFILE

HORZ: 1"=40'
VERT: 1"=10'

1" = 40'

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP005
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28048 LICENSED PROFESSIONAL ENGINEER

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Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

WATER MAIN
PLAN AND PROFILE I
(WATER ALTERNATE BID)

PLAN NUMBER

SHEET NO.
C-5A

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 9:28:16 AM
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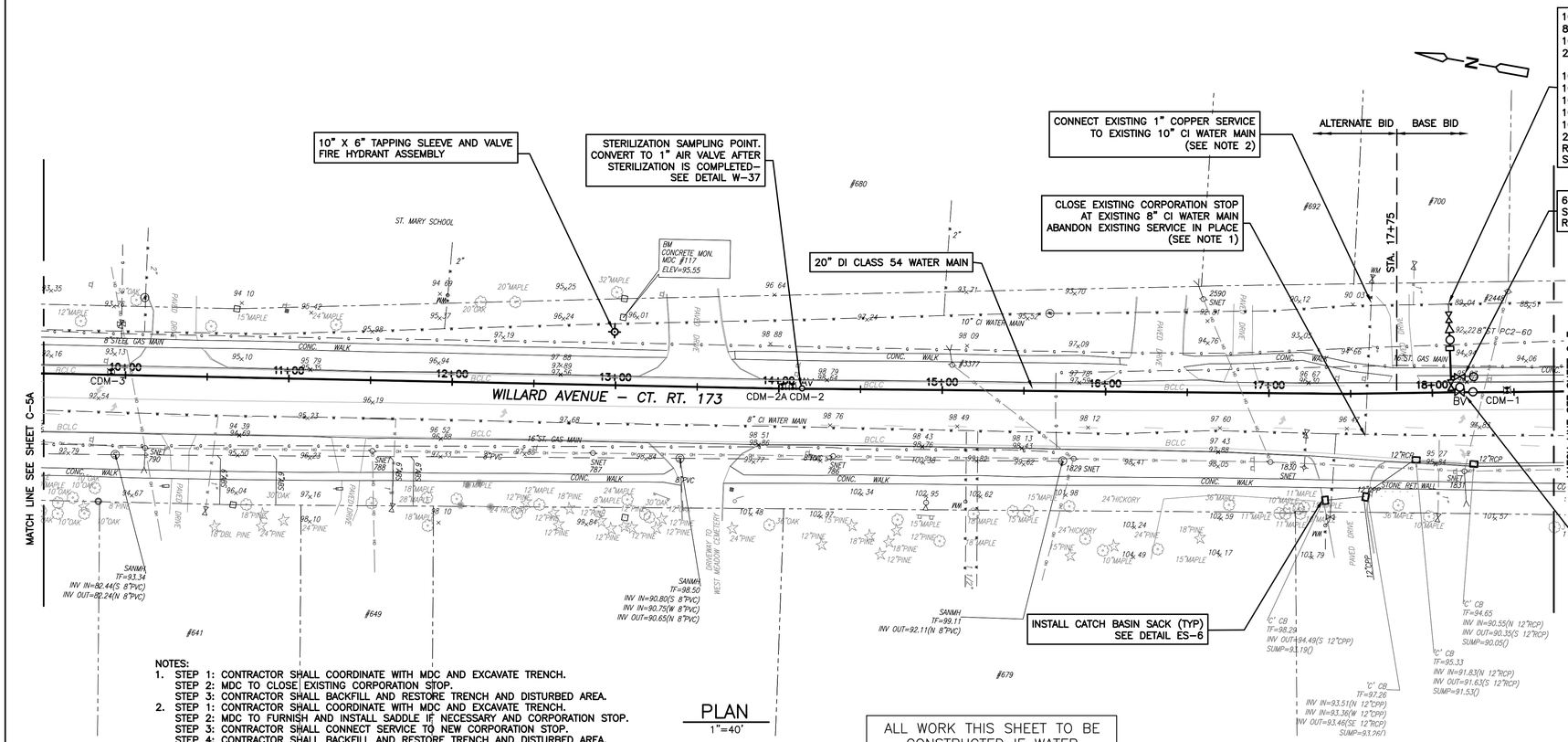
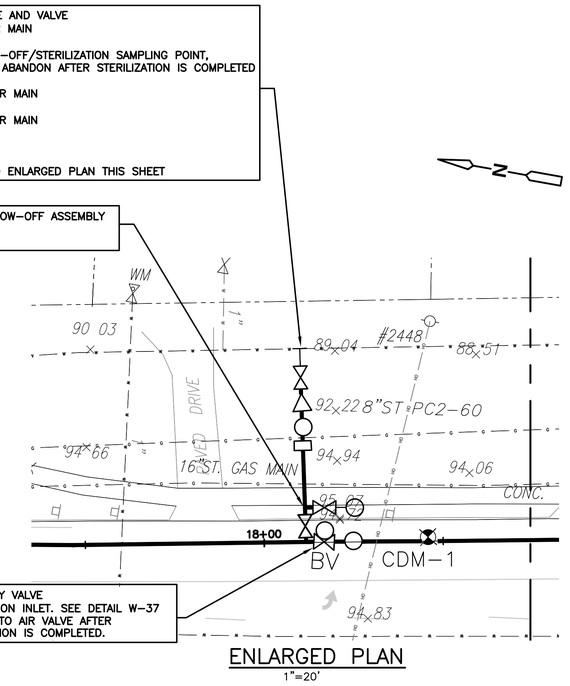


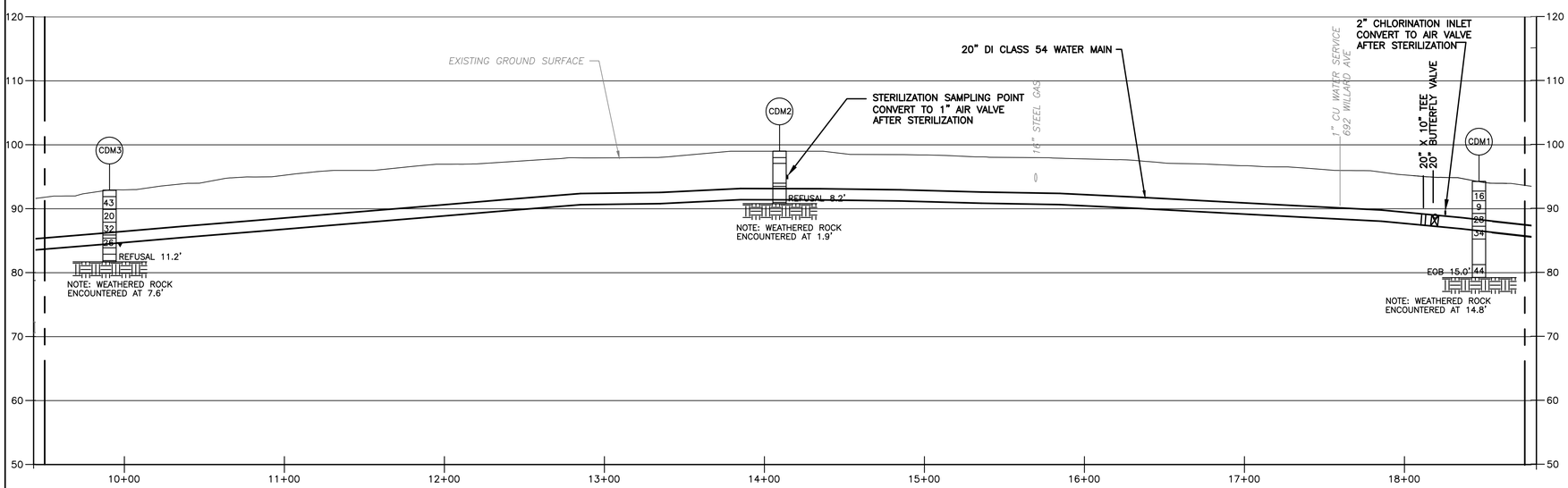
NOTES:
1. STEP 1: CONTRACTOR SHALL COORDINATE WITH MDC AND EXCAVATE TRENCH.
   STEP 2: MDC TO CLOSE EXISTING CORPORATION STOP.
   STEP 3: CONTRACTOR SHALL BACKFILL AND RESTORE TRENCH AND DISTURBED AREA.
2. STEP 1: CONTRACTOR SHALL COORDINATE WITH MDC AND EXCAVATE TRENCH.
   STEP 2: MDC TO FURNISH AND INSTALL SADDLE IF NECESSARY AND CORPORATION STOP.
   STEP 3: CONTRACTOR SHALL CONNECT SERVICE TO NEW CORPORATION STOP.
   STEP 4: CONTRACTOR SHALL BACKFILL AND RESTORE TRENCH AND DISTURBED AREA.

PLAN
1"=40'

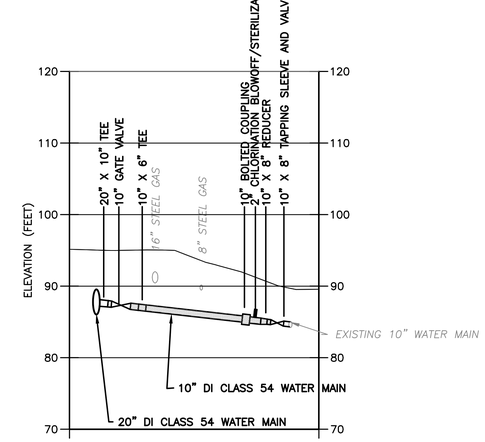
ALL WORK THIS SHEET TO BE CONSTRUCTED IF WATER ALTERNATE BID IS AWARDED



ENLARGED PLAN
1"=20'



PROFILE
HORZ: 1"=40'
VERT: 1"=10'



PROFILE–B–
HORZ: 1"=20'
VERT: 1"=10'

1" = 10' 5 0 10
1" = 20' 10 0 20
1" = 40' 20 0 40

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP006
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X–CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28016 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

WATER MAIN
PLAN AND PROFILE II
(WATER ALTERNATE BID)

PLAN NUMBER

SHEET NO.
C-6A

0930–101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: 0
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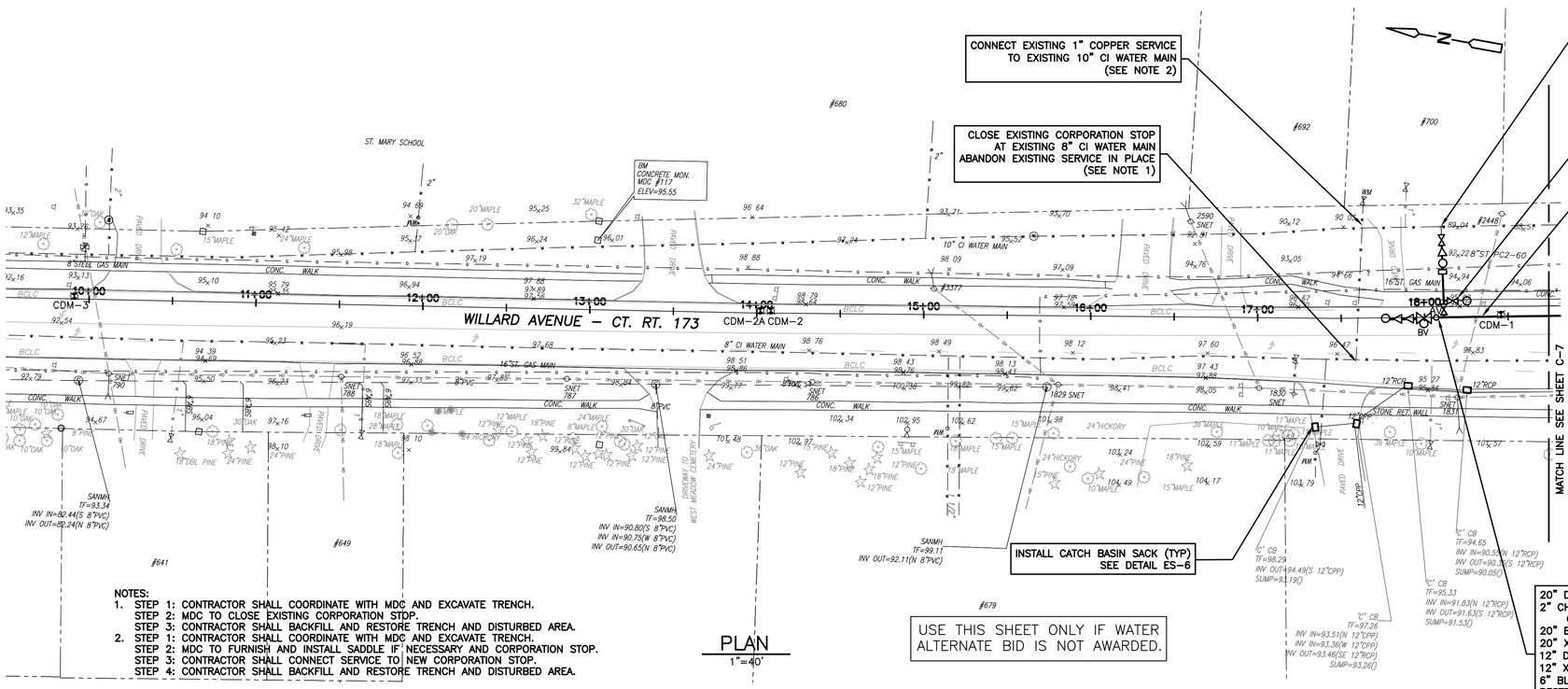


CONNECT EXISTING 1" COPPER SERVICE TO EXISTING 10" CI WATER MAIN (SEE NOTE 2)

CLOSE EXISTING CORPORATION STOP AT EXISTING 8" CI WATER MAIN ABANDON EXISTING SERVICE IN PLACE (SEE NOTE 1)

INSTALL CATCH BASIN SACK (TYP) SEE DETAIL ES-6

10"X8" TAPPING SLEEVE AND VALVE
8" DI CLASS 54 WATER MAIN
10"X8" REDUCER
2" CHLORINATION BLOW-OFF/STERILIZATION SAMPLING POINT, SEE DETAIL W-37, ABANDON AFTER STERILIZATION IS COMPLETED
10" BOLTED COUPLING
10" DI CLASS 54 WATER MAIN
10"X6" TEE
10" DI CLASS 54 WATER MAIN
10" GATE VALVE
20"X10" TEE
RESTRAIN ALL JOINTS
SEE PROFILE –B– AND ENLARGED PLAN THIS SHEET

6" GATE VALVE AND BLOW-OFF ASSEMBLY SEE DETAIL W-40 RESTRAIN ALL JOINTS

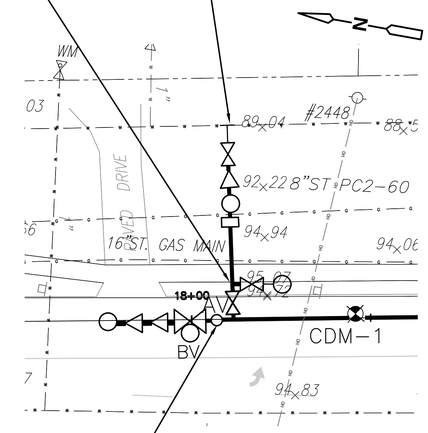
20" DI CLASS 54 WATER MAIN

20" DI PIPE
2" CHLORINATION INLET, SEE DETAIL W-37. CONVERT TO AIR VALVE AFTER STERILIZATION COMPLETED.
20" BUTTERFLY VALVE
20" X 12" REDUCER
12" DI PIPE
12" X 6" REDUCER
6" BLOW-OFF ASSEMBLY, SEE DETAIL W-39
RESTRAIN ALL JOINTS
END OF PIPE AT STA. 17+75
SEE ENLARGED PLAN THIS SHEET

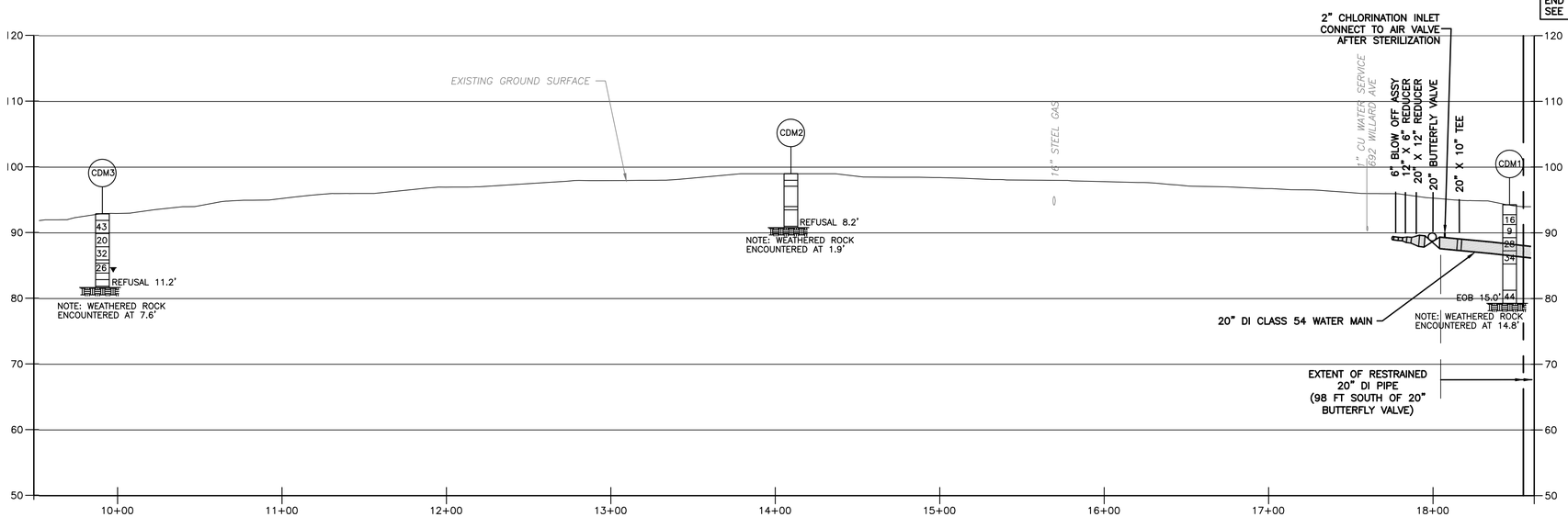
NOTES:
1. STEP 1: CONTRACTOR SHALL COORDINATE WITH MDC AND EXCAVATE TRENCH.
   STEP 2: MDC TO CLOSE EXISTING CORPORATION STOP.
   STEP 3: CONTRACTOR SHALL BACKFILL AND RESTORE TRENCH AND DISTURBED AREA.
2. STEP 1: CONTRACTOR SHALL COORDINATE WITH MDC AND EXCAVATE TRENCH.
   STEP 2: MDC TO FURNISH AND INSTALL SADDLE IF NECESSARY AND CORPORATION STOP.
   STEP 3: CONTRACTOR SHALL CONNECT SERVICE TO NEW CORPORATION STOP.
   STEP 4: CONTRACTOR SHALL BACKFILL AND RESTORE TRENCH AND DISTURBED AREA.

PLAN
1"=40'

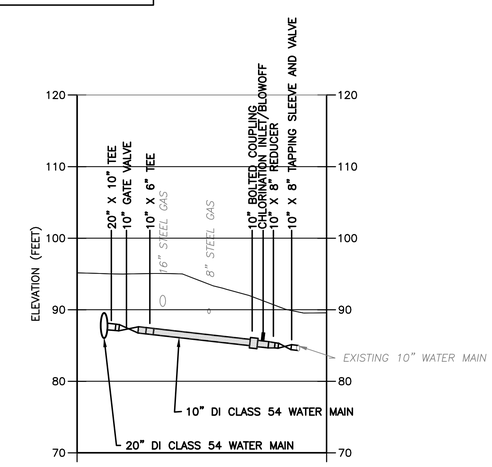
USE THIS SHEET ONLY IF WATER ALTERNATE BID IS NOT AWARDED.



ENLARGED PLAN
1"=20'



PROFILE
HORZ: 1"=40'
VERT: 1"=10'



PROFILE–B–
HORZ: 1"=20'
VERT: 1"=10'

1" = 10' 5 0 10
1" = 20' 10 0 20
1" = 40' 20 0 40

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP006
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
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Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND WATER MAIN INSTALLATION CEDAR STREET AREA

WATER MAIN
PLAN AND PROFILE II
(WATER BASE BID)

PLAN NUMBER
SHEET NO.
C-6

0930–101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 8:28:09 AM
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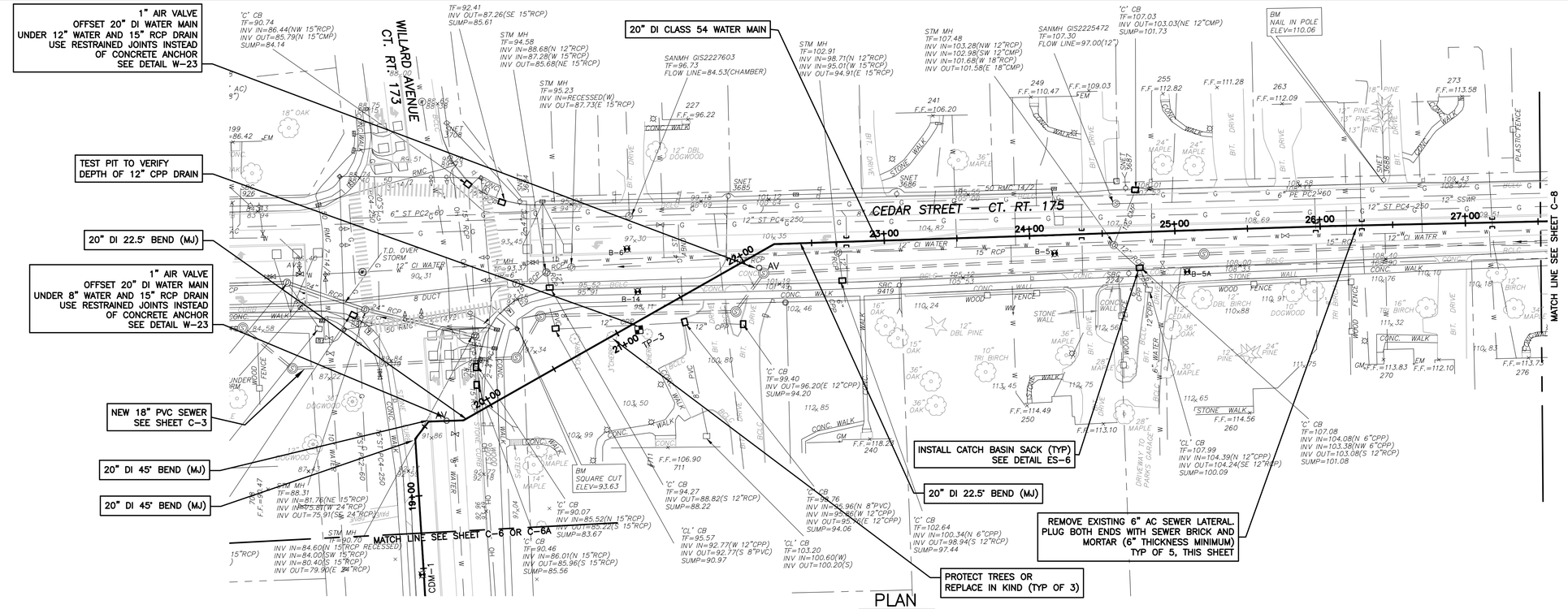
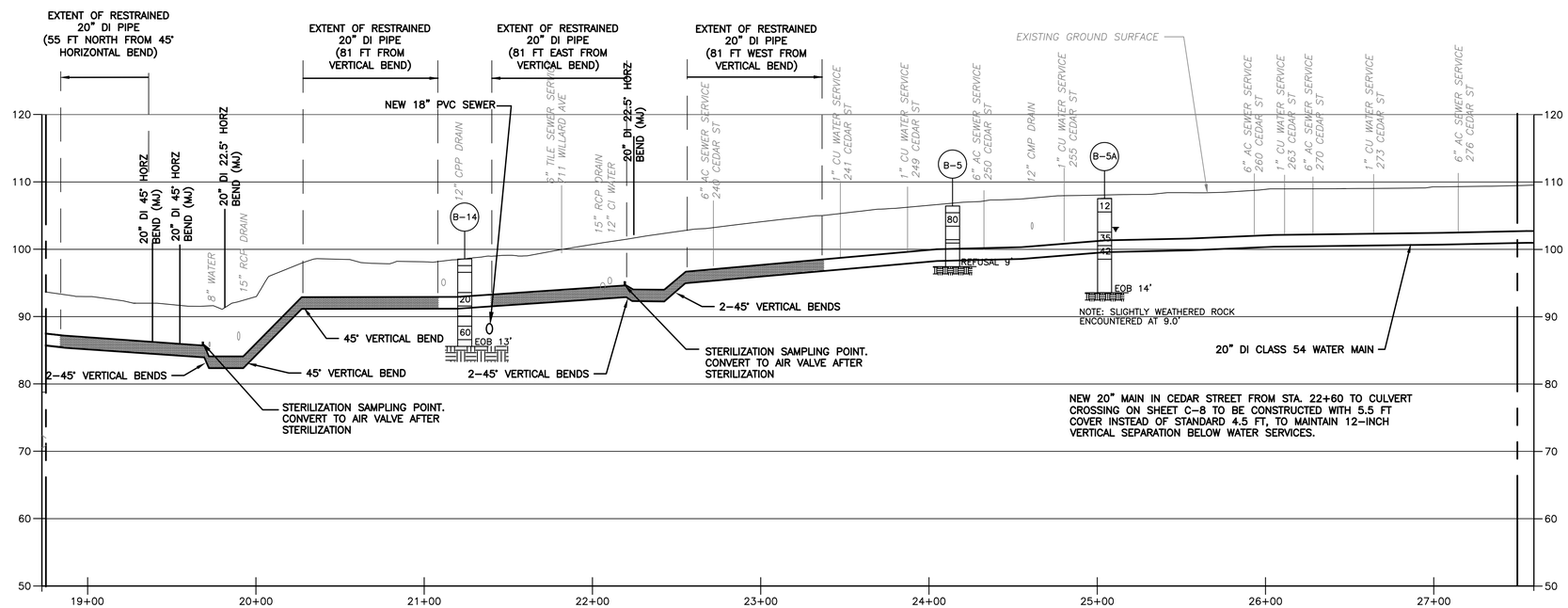


PLAN
1"=40'



PROFILE
HORZ: 1"=40'
VERT: 1"=10'

NOTES:

1. USE JOINT DEFLECTION AS NEEDED TO PASS UNDER EXISTING DRAINS.
2. CONTRACTOR SHALL REFERENCE APPENDIX G FOR CTDOT SIGNALIZATION DIAGRAM FOR THE INTERSECTION OF CEDAR STREET AND WILLARD AVENUE.

1" = 40'
20 0 40

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP007
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

WATER MAIN
PLAN AND PROFILE III
(WATER BASE BID)

PLAN NUMBER

SHEET NO.
C-7

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 8:28:36 AM
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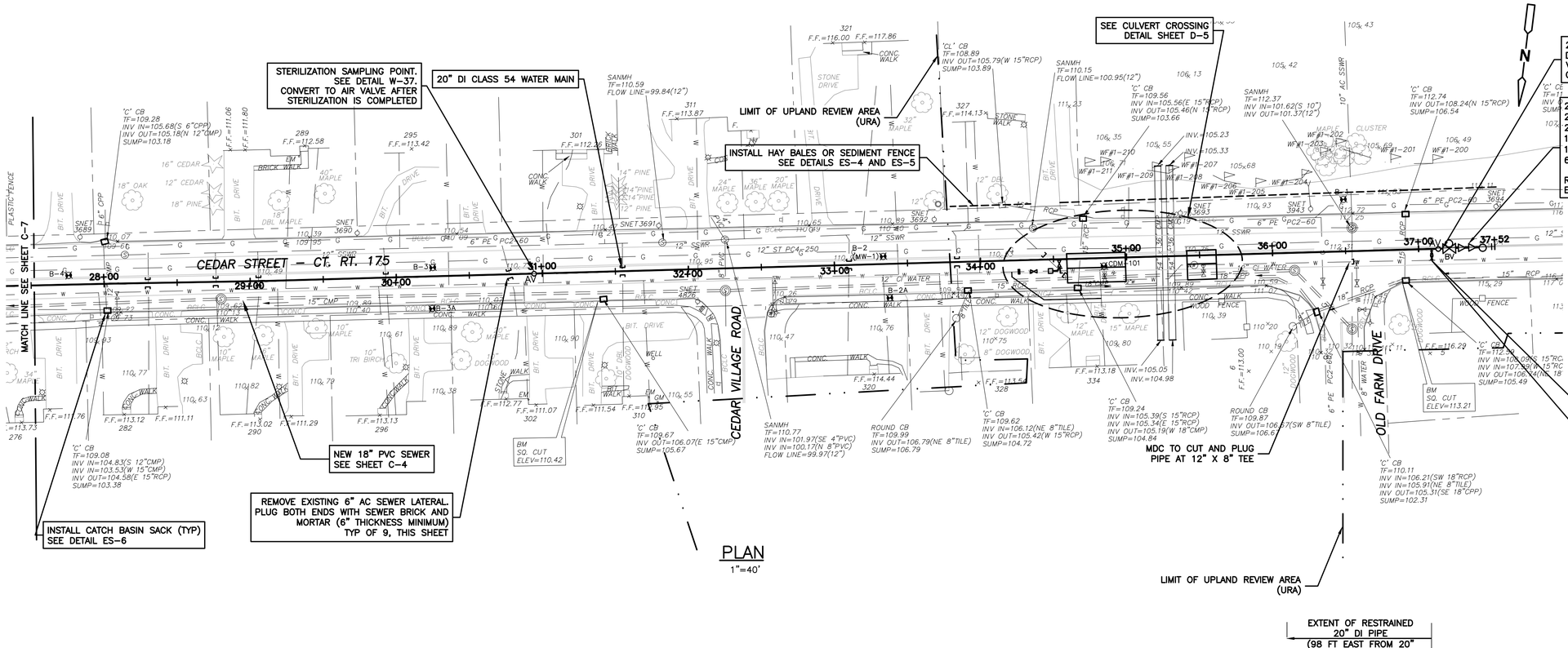
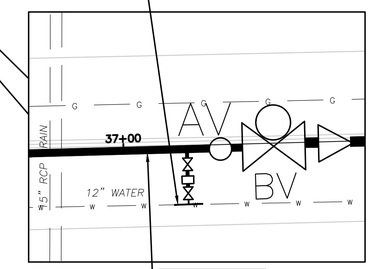
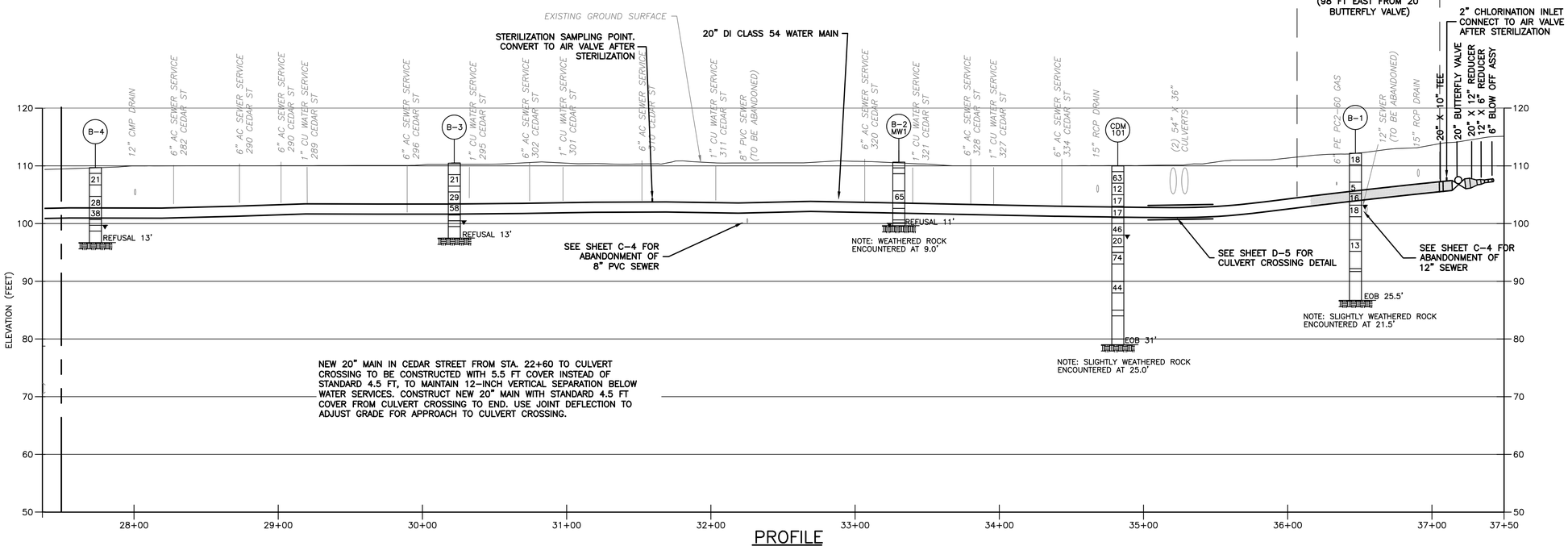


PLAN
1"=40'



ENLARGED PLAN
1"=10'



PROFILE
HORZ: 1"=40'
VERT: 1"=10'

NOTE:

1. USE JOINT DEFLECTION AS NEEDED TO PASS UNDER EXISTING DRAINS.

1" = 40'

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSTPP008
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH P. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

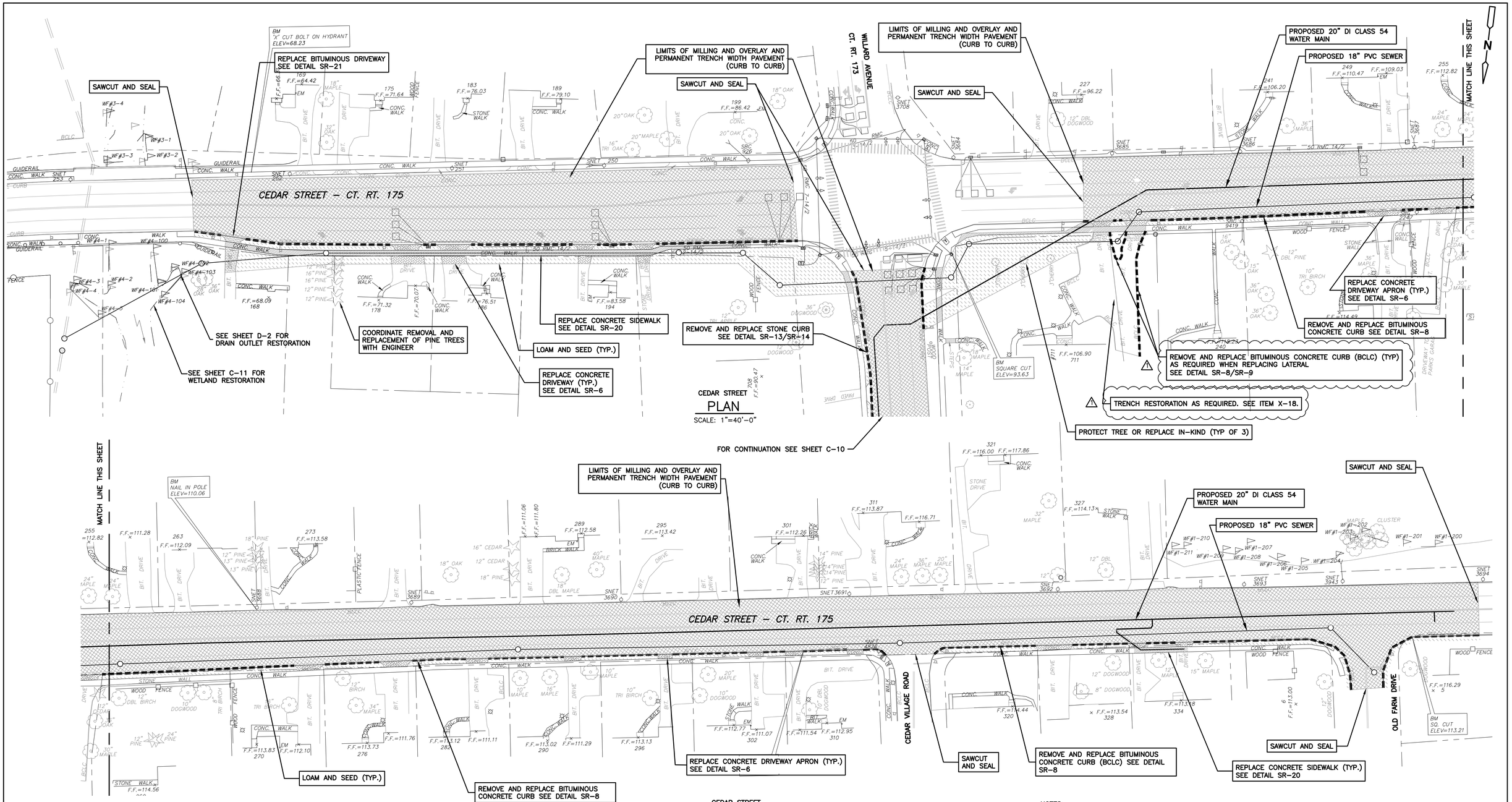
WATER MAIN
PLAN AND PROFILE IV
(WATER BASE BID)

PLAN NUMBER

SHEET NO.
C-8

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: []
Last saved by: ENGELSB Time: 3/30/2012 8:10:58 PM
PLEASE UPDATE THE PROJECTWISE PATH (SELECT ATTRIBUTES IN PROJECTWISE AND CLICK CHECK BOX)



LEGEND:

- LIMITS OF MILL AND OVERLAY AND PERMANENT TRENCH WIDTH PAVEMENT
- LIMITS OF LOAM AND SEED
- LIMITS OF CONCRETE SIDEWALK RESTORATION
- LIMITS OF BITUMINOUS DRIVEWAY RESTORATION
- LIMITS OF CCONCRETE DRIVEWAY APRON RESTORATION
- LIMITS OF CURB RESTORATION

NOTES:

1. COMPLETION OF TEMPORARY TRENCH WIDTH PAVEMENT REQUIRED BY THE END OF EACH WORK DAY ALONG PAVED AREAS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE DETAIL SR-1.
2. ALL MANHOLES, FRAMES, GRATES, HANDHOLES, CURB BOXES, VALVE BOX COVERS ETC. SHALL BE CONSTRUCTED OR RESET TO PROPOSED GRADE PRIOR TO FINAL PAVING AS DIRECTED BY THE ENGINEER.
3. ALL AREAS DISTURBED SHALL BE RESTORED AS SHOWN ON THE DRAWINGS OR TO EXISTING CONDITIONS OR AS DIRECTED BY THE ENGINEER.
4. ALL PAVEMENT MARKINGS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.

1" = 40'
20 0 40

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3.30.18	SE	KMB	ADDENDUM NO 3

FILE NAME: CSRPL009
DESIGNED BY: A. FELDMAN
DRAWN BY: S. ENGEL
CHK'D BY: J. DIERCKS
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28040 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SURFACE RESTORATION PLAN I

PLAN NUMBER

SHEET NO.
C-9

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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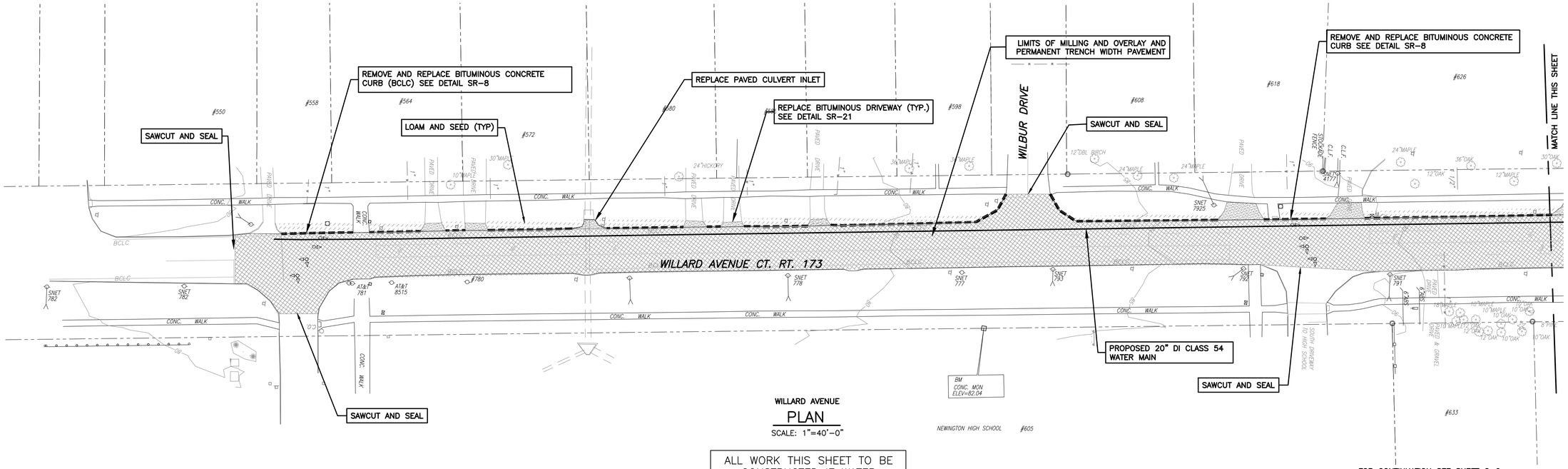
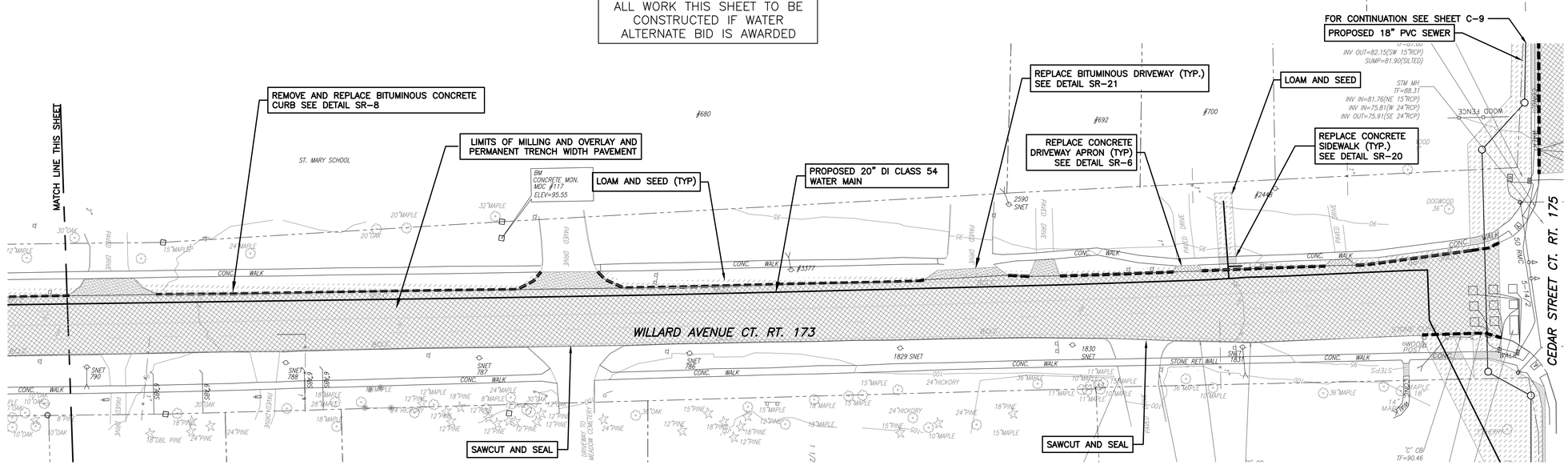


WILLARD AVENUE

PLAN

SCALE: 1"=40'-0"

ALL WORK THIS SHEET TO BE CONSTRUCTED IF WATER ALTERNATE BID IS AWARDED



WILLARD AVENUE

PLAN

SCALE: 1"=40'-0"

LEGEND:

- LIMITS OF MILL AND OVERLAY AND PERMANENT TRENCH WIDTH PAVEMENT
- LIMITS OF LOAM AND SEED
- LIMITS OF CONCRETE SIDEWALK RESTORATION
- LIMITS OF BITUMINOUS DRIVEWAY RESTORATION
- LIMITS OF CCONCRETE DRIVEWAY APRON RESTORATION
- LIMITS OF CURB RESTORATION

NOTES:

1. COMPLETION OF TEMPORARY TRENCH WIDTH PAVEMENT REQUIRED BY THE END OF EACH WORK DAY ALONG PAVED AREAS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE DETAIL SR-1.
2. ALL MANHOLES, FRAMES, GRATES, HANDHOLES, CURB BOXES, VALVE BOX COVERS ETC. SHALL BE CONSTRUCTED OR RESET TO PROPOSED GRADE PRIOR TO FINAL PAVING AS DIRECTED BY THE ENGINEER.
3. ALL AREAS DISTURBED SHALL BE RESTORED AS SHOWN ON THE DRAWINGS OR TO EXISTING CONDITIONS OR AS DIRECTED BY THE ENGINEER.
4. ALL PAVEMENT MARKINGS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
5. FULL DEPTH PAVEMENT REPLACEMENT MUST BE COMPLETED BY NOVEMBER FIRST OF THE SAME CONSTRUCTION YEAR.

1" = 40'
20 0 40

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: CSRPL010
DESIGNED BY: A. FELDMAN
DRAWN BY: S. ENGEL
CHK'D BY: J. DIERCKS
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

SURFACE RESTORATION PLAN II (WATER ALTERNATE BID)

PLAN NUMBER

SHEET NO.

C-10

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 9:32:09 AM
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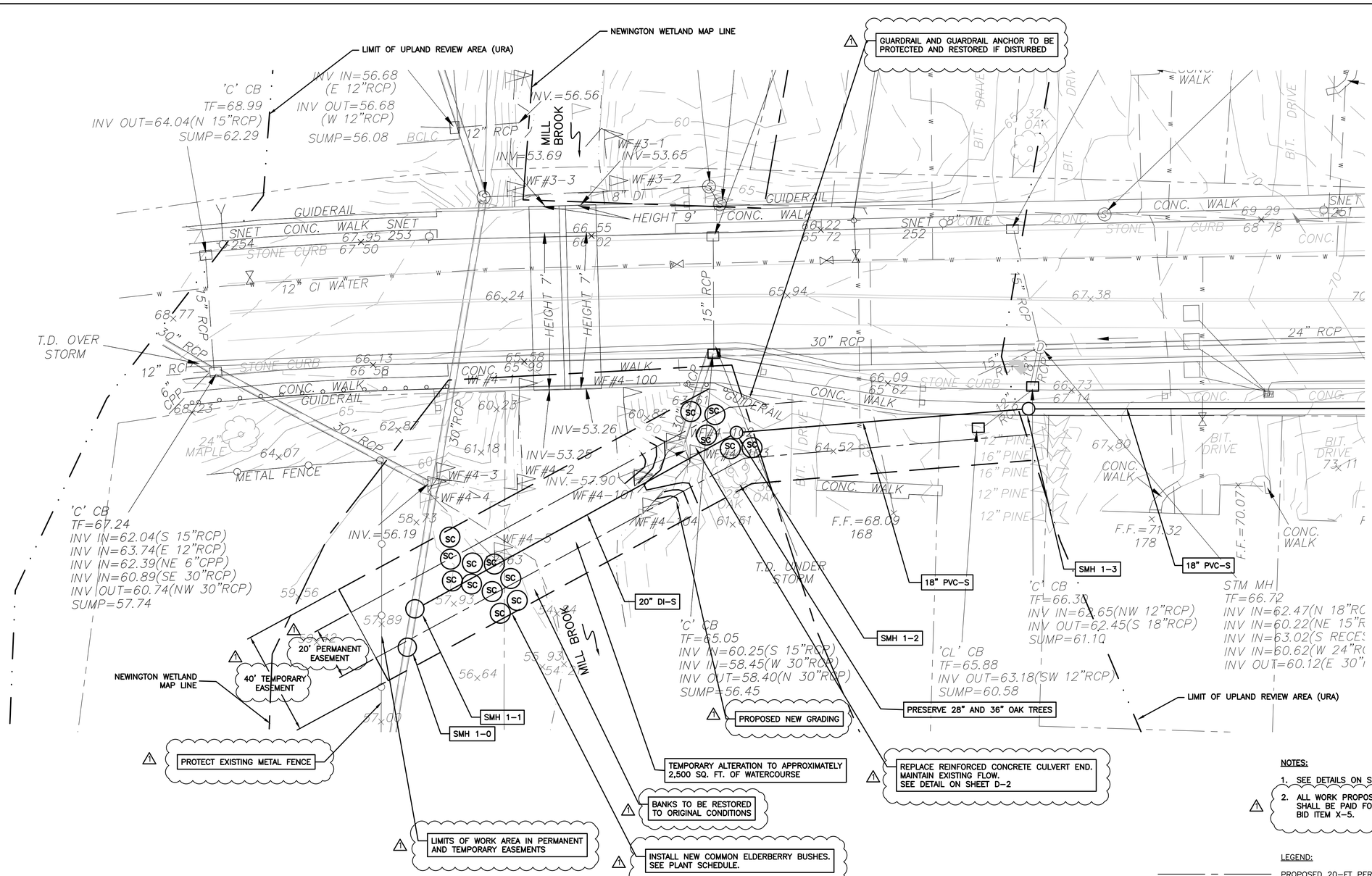

PLAN

SCALE: 1"=20'-0"

NOTES:

1. SEE DETAILS ON SHEET D-6.
2. ALL WORK PROPOSED ON THIS SHEET SHALL BE PAID FOR UNDER SEWER BASE BID ITEM X-5.

LEGEND:

- PROPOSED 20-FT PERMANENT EASEMENT
- PROPOSED 40-FT CONSTRUCTION EASEMENT
- EXISTING PROPERTY LINE
- LIMIT OF UPLAND REVIEW AREA (URA)
- NEWINGTON WETLAND MAP LINE

PLANT SCHEDULE

		COMMON NAME	LATIN NAME	CONTAINER		COUNT	COMMENTS
SHRUBS	SC	COMMON ELDERBERRY	SAMBUCUS CANADENSIS	1.0-1.5" CALIPER	4-5'	15	SPACE 8-FT

1" = 20'

10 0 20

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3.30.18	SE	KMB	ADDENDUM NO. 3

FILE NAME: CSTPL011
DESIGNED BY: A. FELDMAN
DRAWN BY: S. ENGEL
CHK'D BY: J. DIERCKS
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

WETLAND RESTORATION PLAN
MILL BROOK AREA

PLAN NUMBER

SHEET NO.
C-11

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/30/2012 8:48:50 PM
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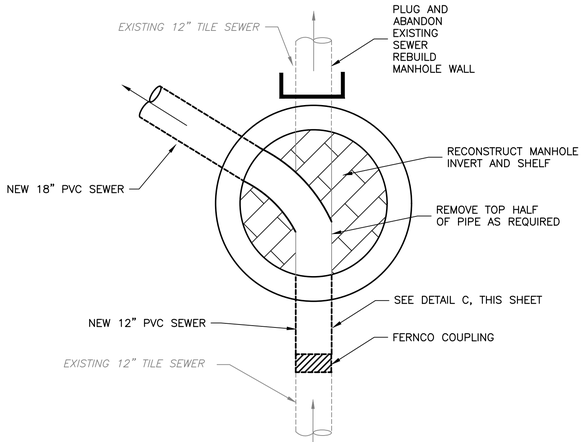
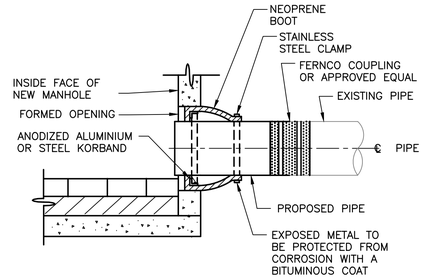


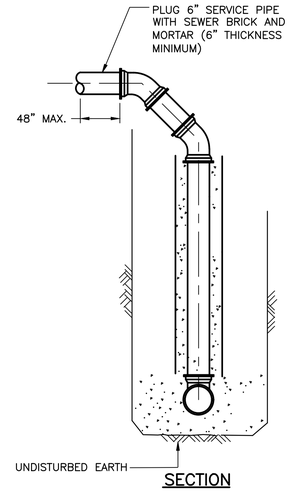
SMH 2–5

DETAIL A
NTS



EXISTING PIPE CONNECTION FOR MANHOLE REPLACEMENT

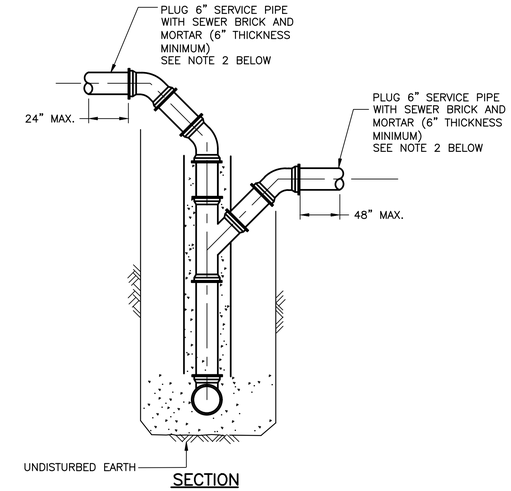
DETAIL C
NTS



NOTE:
FOR HOUSE NOS. 250, 260, 290, 296, 302, AND 310 CEDAR STREET.

SINGLE CHIMNEY SERVICE ABANDONMENT

DETAIL E
NTS

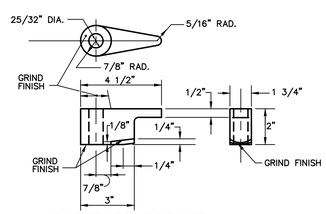


NOTES:

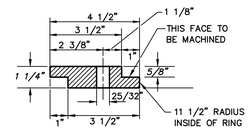
1. FOR HOUSE NOS. 270, 276, AND 282 CEDAR STREET. SEE SHEET C–6.
2. CONTRACTOR SHALL DETERMINE IN THE FIELD WHETHER THE UPPER OR LOWER 6" SERVICE PIPE SERVICES HOUSE NOS. 270, 276, OR 282 CEDAR STREET. PLUG THE SEWER SERVICE PIPE SERVICING THESE ADDRESSES.

DOUBLE CHIMNEY SERVICE ABANDONMENT

DETAIL F
NTS

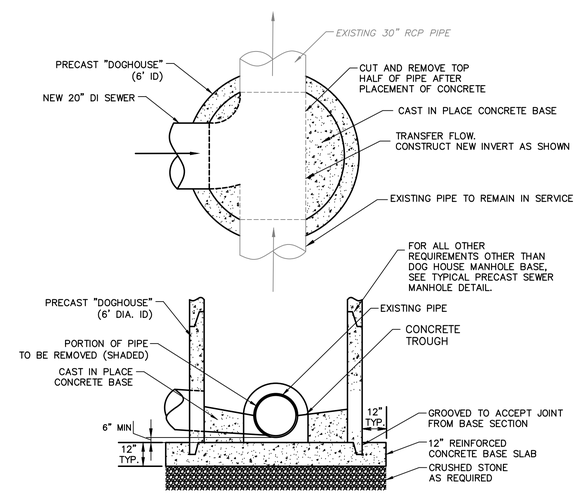


PHOSPHOR BRONZE LOCKING BUTTON DETAIL



SECTION OF CAST IRON RING

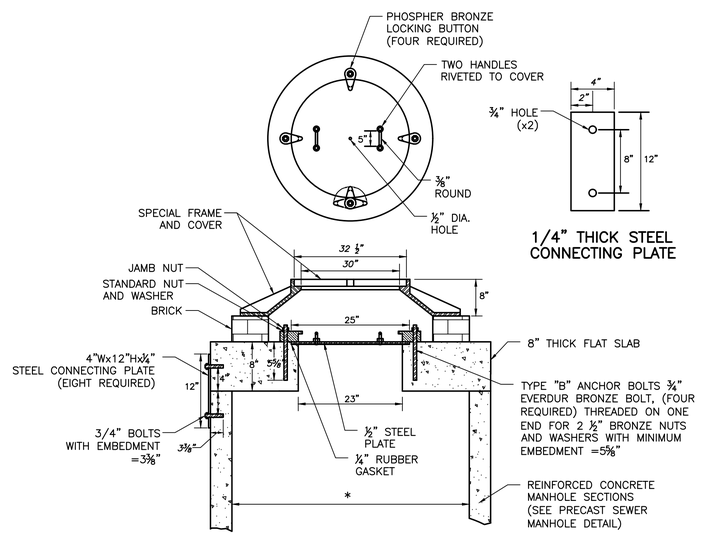
NOTE:
ALL CASTINGS ARE TO BE WHOLE, SOUND, FREE FROM HOLES AND OTHER DEFECTS.



DOG HOUSE MANHOLE BASE – SMH 1–1

DETAIL B
NTS

NOTE:
SUPPORT EXISTING 30" RCP (NEWNGTON TRUNK SEWER) AS NEEDED.

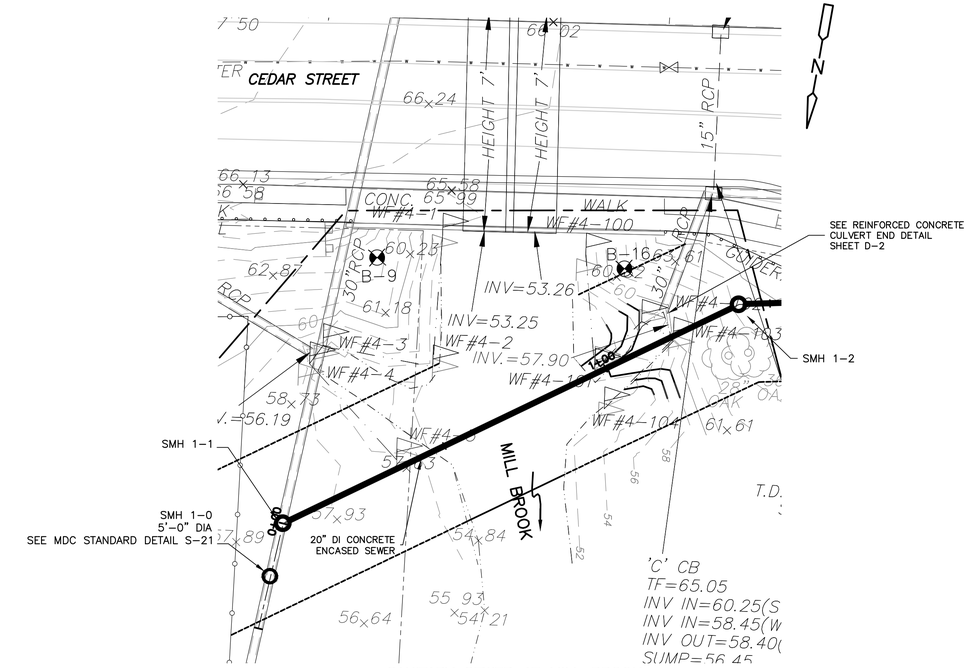


NOTE:
PROVIDE WATERTIGHT MANHOLE FRAME AND COVER FOR SMH 1–0 AND SMH 1–1. SEE DETAIL THIS SHEET.

SPECIAL WATERTIGHT MANHOLE FRAME & COVER

DETAIL D
NTS

* 60" FOR BYPASS SMH 1–0
72" FOR SMH 1–1



SANITARY SEWER AT MILL BROOK

ENLARGED PLAN
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

FILE NAME: DSTDT001
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

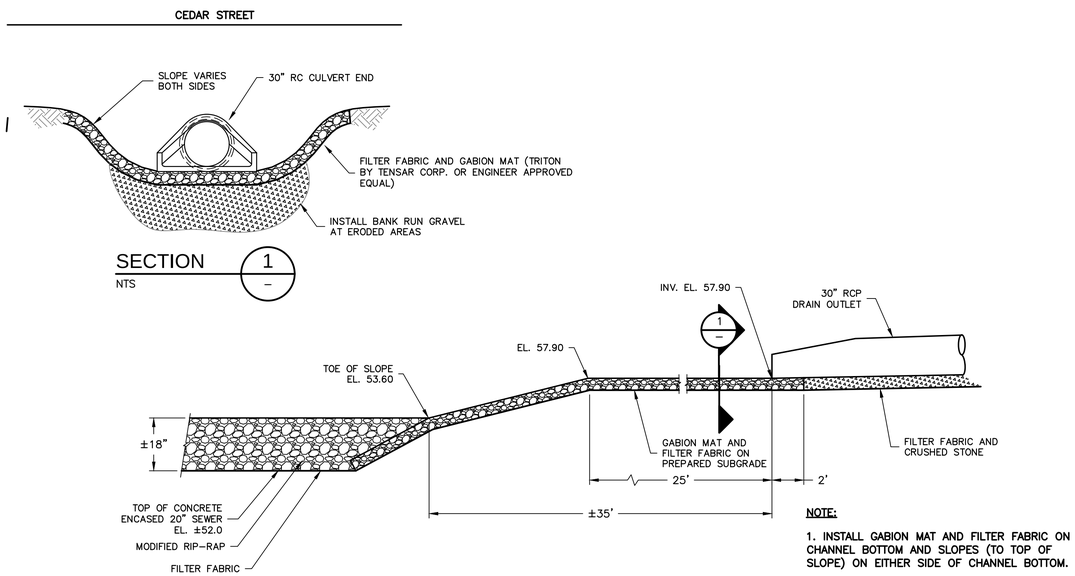
MISCELLANEOUS DETAILS I

PLAN NUMBER

SHEET NO.
D-1

0930–101697

Xref's: [CDM_2436, CSTDT000] Images: []
Last saved by: ENGELSB Time: 7/20/2012 3:59:11 PM
PLEASE UPDATE THE PROJECTWISE PATH (SELECT ATTRIBUTES IN PROJECTWISE AND CLICK CHECK BOX)



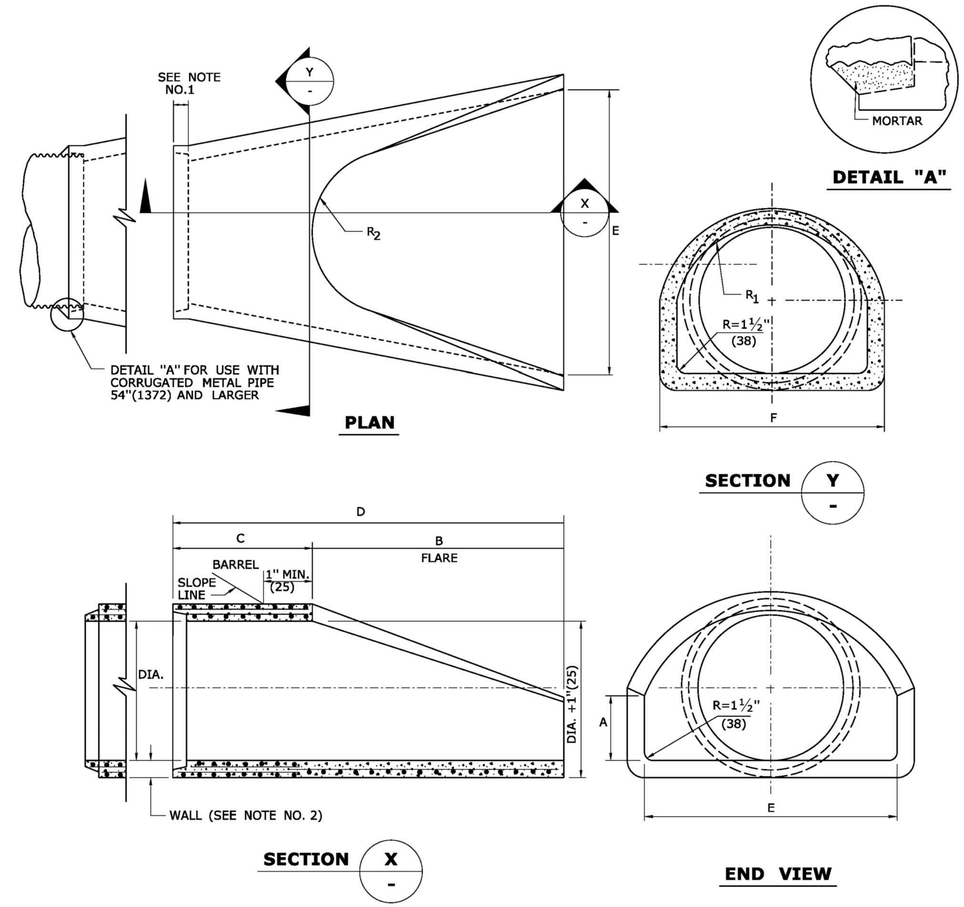
NOTE:

1. INSTALL GABION MAT AND FILTER FABRIC ON CHANNEL BOTTOM AND SLOPES (TO TOP OF SLOPE) ON EITHER SIDE OF CHANNEL BOTTOM.

REINFORCED CONCRETE CULVERT END

DETAIL A / -

NTS



DIMENSIONS FOR REINFORCED CONCRETE CULVERT END									FLARE REINFORCEMENT ONE LAYER ONLY IN CENTER OF WALL	
DIA.	A	B	C	D	E	F	R_1	R_2	MIN. AREA OF LONGITUDINAL STEEL SQ. IN. PER FT.	MIN. AREA OF TRANSVERSE STEEL SQ. IN. PER FT.
12"(305)	4"(102)	2'-0"(610)	4'-0⅜"(1241)	6'-0⅜"(1851)	2'-0"(610)	1'-7 15/16"(506)	10¼"(260)	9"(229)	0.048	0.048
15"(381)	6"(152)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	2'-6"(762)	2'-0 5/16"(618)	1'-0½"(318)	11"(279)	0.054	0.054
18"(457)	9"(229)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	3'-0"(914)	2'-5"(737)	1'-3½"(394)	1'-0"(305)	0.060	0.060
21"(533)	9"(229)	2'-11"(889)	3'-2"(965)	6'-1"(1854)	3'-6"(1067)	2'-7½"(800)	1'-4"(406)	1'-1"(330)	0.066	0.066
24"(610)	9½"(241)	3'-7½"(1105)	2'-6"(762)	6'-1½"(1867)	4'-0"(1219)	2'-9 3/16"(843)	1'-4 13/16"(427)	1'-2"(356)	0.072	0.072
30"(762)	1'-0"(305)	4'-6"(1371)	1'-7¾"(502)	6'-1¾"(1873)	5'-0"(1524)	3'-1"(940)	1'-6½"(470)	1'-3"(381)	0.084	0.084
36"(914)	1'-3"(381)	5'-3"(1600)	2'-10¾"(883)	8'-1¾"(2483)	6'-0"(1829)	3'-11 13/16"(1214)	2'-0 5/16"(618)	1'-8"(508)	0.096	0.096
42"(1067)	1'-9"(534)	5'-3"(1600)	2'-11"(889)	8'-2"(2489)	6'-6"(1981)	4'-5⅞"(1368)	2'-3½"(699)	1'-10"(559)	0.108	0.108
48"(1219)	2'-0"(610)	6'-0"(1829)	2'-2"(660)	8'-2"(2489)	7'-0"(2134)	4'-8½"(1435)	2'-4½"(724)	1'-10"(559)	0.120	0.120
54"(1372)	2'-3"(686)	5'-5"(1651)	2'-11"(889)	8'-4"(2540)	7'-6"(2286)	5'-5½"(1664)	2'-9⅛"(841)	2'-0"(610)	0.132	0.132
60"(1524)	2'-9"(838)	5'-0"(1524)	3'-3"(991)	8'-3"(2515)	8'-0"(2438)	6'-0½"(1842)	3'-0 11/16"(932)	2'-0"(610)	0.144	0.144

REINFORCED CONCRETE CULVERT END

DETAIL B / -

NTS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: DSTDT002
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

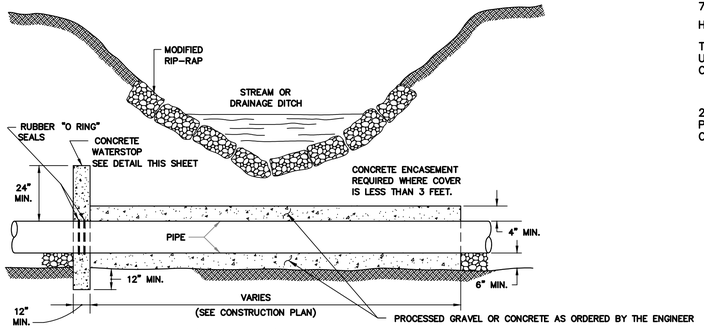
MISCELLANEOUS DETAILS II

PLAN NUMBER

SHEET NO.
D-2

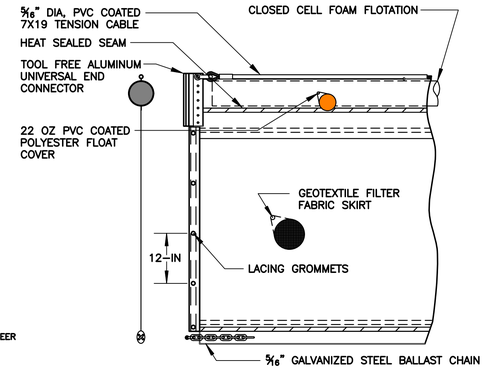
0930-101697

Xref's: [CDM_2436, CSTDT000] Images: []
Last saved by: ENGELSB Time: 7/20/2012 3:59:11 PM
PLEASE UPDATE THE PROJECTWISE PATH (SELECT ATTRIBUTES IN PROJECTWISE AND CLICK CHECK BOX)



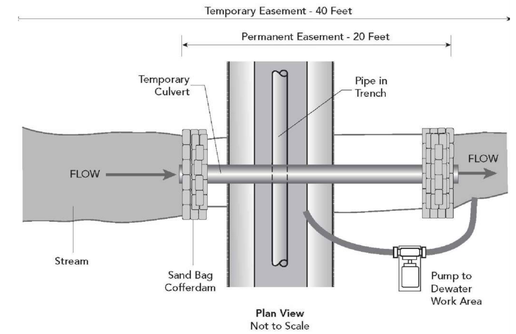
TYPICAL STREAM CROSSING WITH CONCRETE WATER STOP

DETAIL A
SCALE: NTS

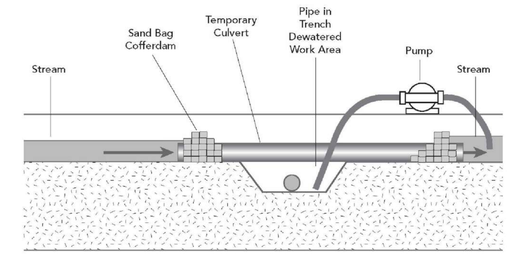


FLOATING TURBIDITY BARRIER

DETAIL C
SCALE: NTS



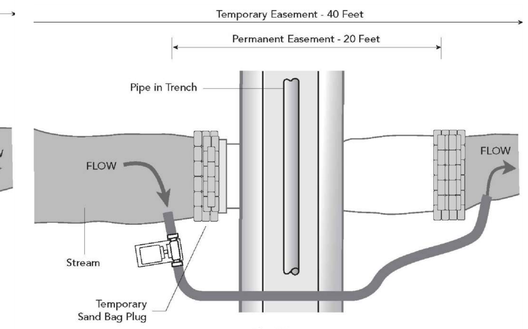
Plan View
Not to Scale



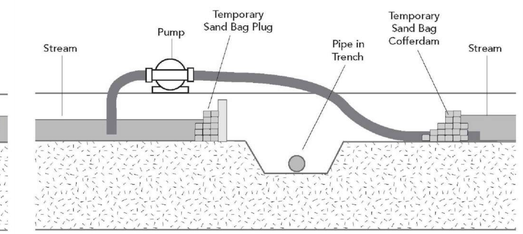
Elevation View
Not to Scale

BYPASS PUMPING

DETAIL D
NTS



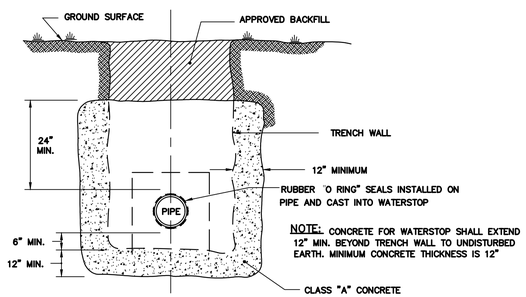
Plan View
Not to Scale



Elevation View
Not to Scale

TEMPORARY FLUME PIPE

DETAIL E
NTS

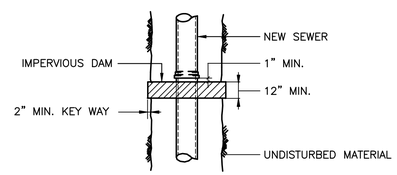


TYPICAL DETAIL CONCRETE WATERSTOP

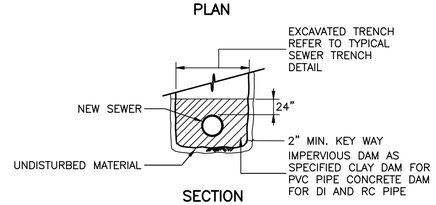
DETAIL B
SCALE: NTS

TRENCH DAM LOCATIONS

STA. 1+60
STA. 4+60
STA. 7+60
STA. 10+60
STA. 13+60
STA. 16+60
STA. 19+60
STA. 22+60



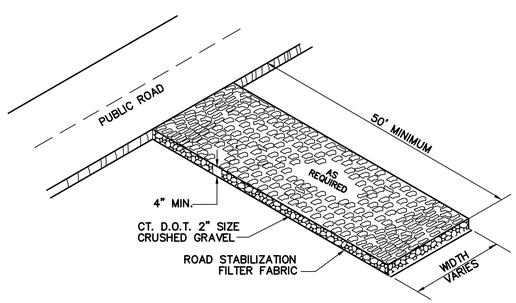
PLAN



SECTION

PIPE TRENCH DAM

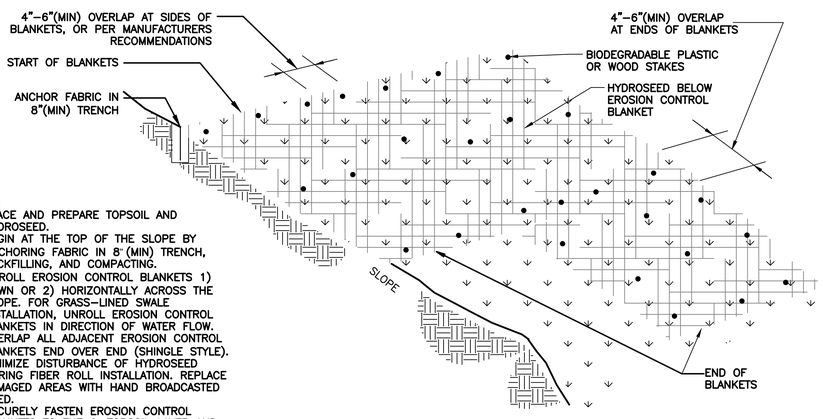
DETAIL H
NTS



NOTE:
TO BE USED BY CONTRACTOR AT STAGING AREA AT ENTRANCE/EXIT TO PROTECT EXISTING PAVEMENT.

ANTI-TRACKING PAD

DETAIL F
NTS



NOTES:
1. PLACE AND PREPARE TOPSOIL AND HYDROSEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING FABRIC IN 8" (MIN) TRENCH, BACKFILLING, AND COMPACTING.
3. UNROLL EROSION CONTROL BLANKETS 1) DOWN OR 2) HORIZONTALLY ACROSS THE SLOPE. FOR GRASS-LINED SWALE INSTALLATION, UNROLL EROSION CONTROL BLANKETS IN DIRECTION OF WATER FLOW. OVERLAP ALL ADJACENT EROSION CONTROL BLANKETS END OVER END (SHINGLE STYLE). MINIMIZE DISTURBANCE OF HYDROSEED DURING FIBER ROLL INSTALLATION. REPLACE DAMAGED AREAS WITH HAND BROADCASTED SEED.
4. SECURELY FASTEN EROSION CONTROL BLANKETS TO THE 6" TOPSOIL LAYER AND SUBGRADE USING BIODEGRADABLE PLASTIC OR WOOD STAKES. STAKES SHALL BE A OF SUFFICIENT LENGTH TO SECURE TO THE SUBGRADE. STAKE SPACING AND PATTERN SHALL BE AS RECOMMENDED BY THE MANUFACTURER. STAKE SPACING AND PATTERN SHOWN HEREIN IS FOR ILLUSTRATION PURPOSES ONLY.

EROSION CONTROL BLANKET

DETAIL G
NTS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: DSTDT003
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

MISCELLANEOUS DETAILS III

PLAN NUMBER

SHEET NO.
D-3

0930-101697

Xref's: [CDM_2436, CSTDT000] Images: []
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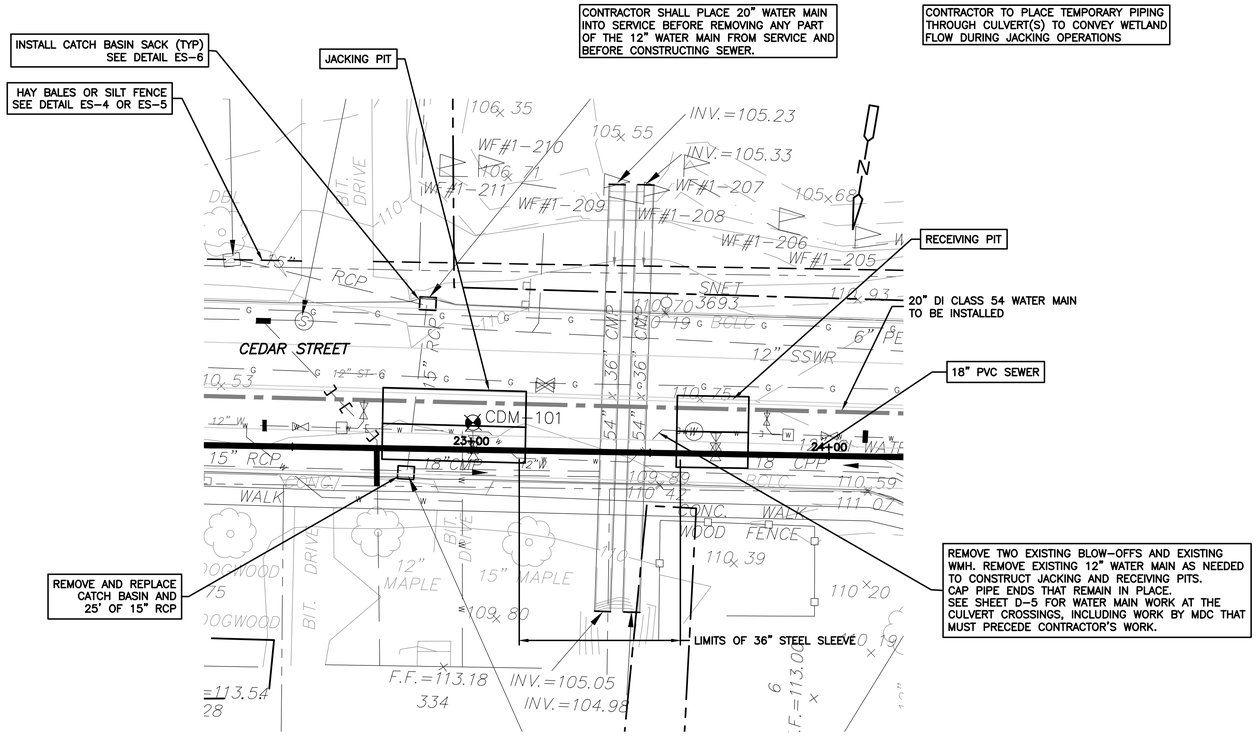
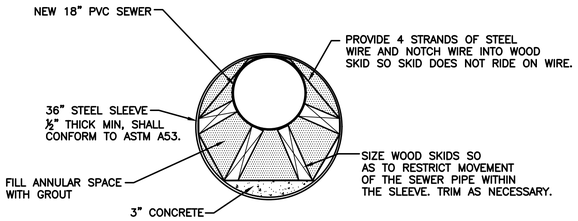


SEWER PIPE CEDAR STREET TWIN CULVERTS CROSSINGS

ENLARGED PLAN

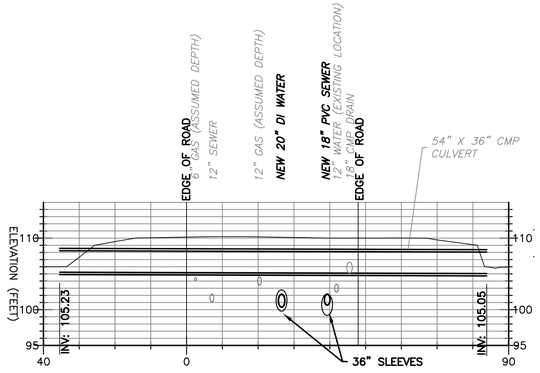
1" = 20'



SEWER PIPE STEEL SLEEVE AT CEDAR STREET CULVERTS CROSSING

DETAIL A

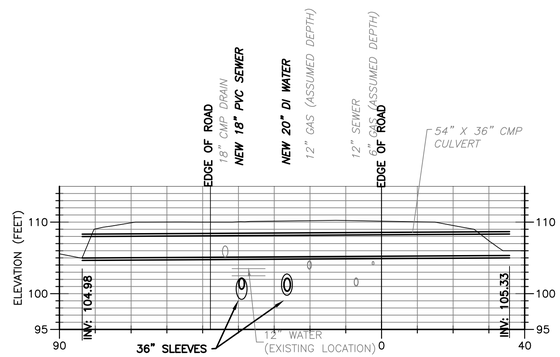
NTS



EASTERN CULVERT (LOOKING WEST)

SECTION 1

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



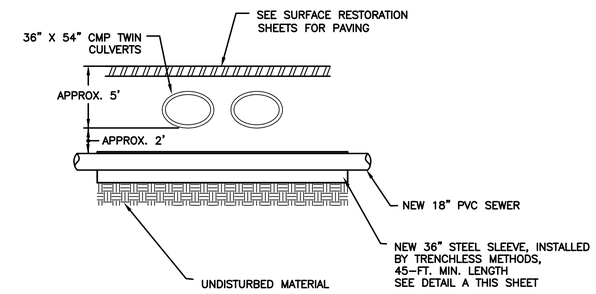
WESTERN CULVERT (LOOKING EAST)

SECTION 2

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

1" = 20'

1" = 10'



NOTES:

1. SEE LOG OF BORING CDM-101 FOR SUBSURFACE CONDITIONS NEAR CROSSING.

SECTION

SEWER PIPE CEDAR STREET TWIN CULVERTS CROSSING

DETAIL B

NTS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: DSTDT004
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: C. COYLE
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

MISCELLANEOUS DETAILS IV

PLAN NUMBER

SHEET NO.
D-4

0930-101697

Xref's: [CDM_2436, CSTDT000, CSTPL001, 31-267 122811 2000] Images: []
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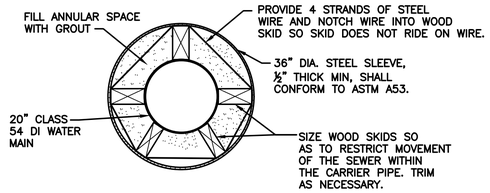
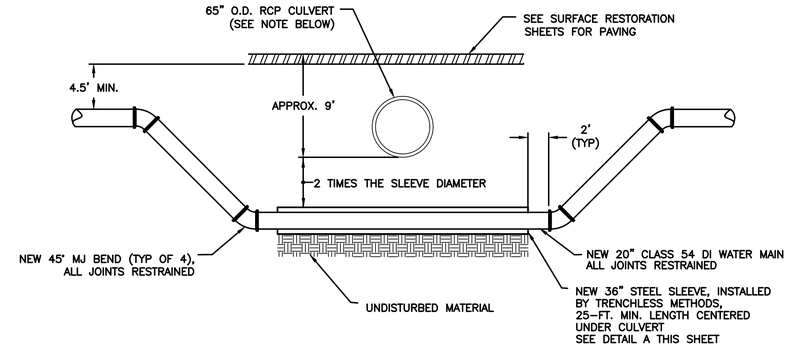


STEEL SLEEVE FOR WATER MAIN AT WILLARD AVENUE AND CEDAR STREET CULVERT CROSSINGS

DETAIL A – NTS



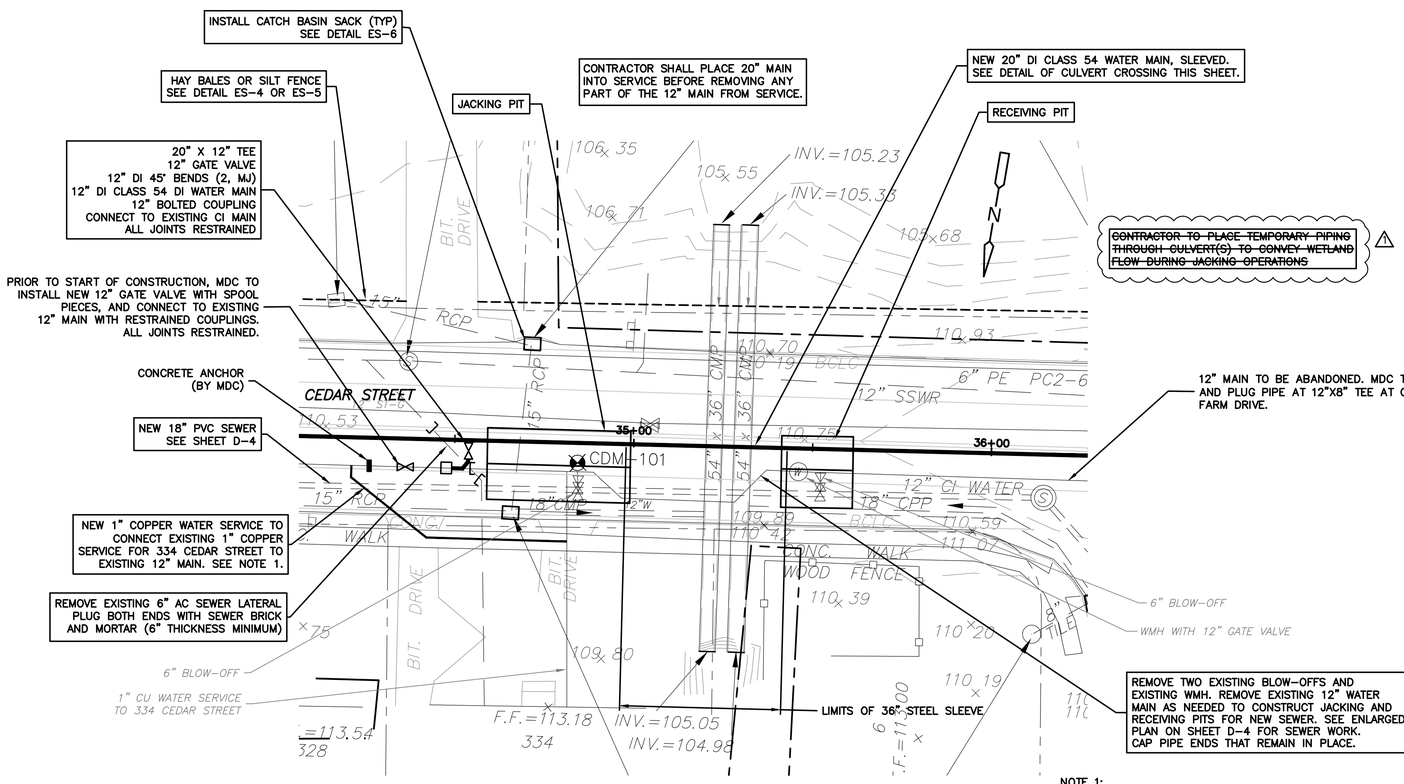
SECTION

NOTES:

1. THE RCP CULVERT TRANSITIONS TO UNMORTARED STONE BOX CULVERT IN VERY CLOSE PROXIMITY TO THE LOCATION OF WATER MAIN CROSSING.
2. SEE LOG OF BORING CDM-5, AND WATER LEVEL READINGS FROM MW-1, APPENDED, FOR SUBSURFACE CONDITIONS NEAR CROSSING.
3. THE WORK OF THIS DETAIL WILL ONLY BE CONSTRUCTED IF THE WATER ALTERNATE BID IS AWARDED.

WATER MAIN, WILLARD AVENUE CULVERT CROSSING

DETAIL B – NTS

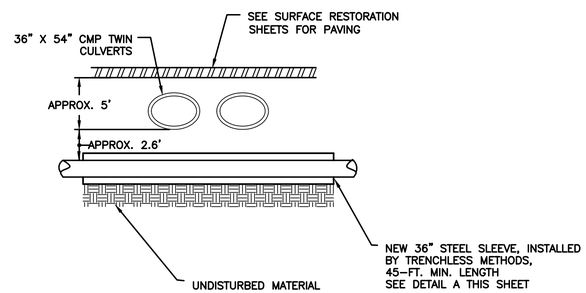


WATER MAIN, CEDAR STREET TWIN CULVERTS CROSSINGS

ENLARGED PLAN

1" = 20'

NOTE 1:
STEP 1: CONTRACTOR SHALL COORDINATE WITH MDC AND EXCAVATE TRENCH.
STEP 2: MDC TO FURNISH AND INSTALL SADDLE IF NECESSARY AND CORPORATION STOP.
STEP 3: CONTRACTOR SHALL CONNECT SERVICE TO NEW CORPORATION STOP.
STEP 4: CONTRACTOR SHALL BACKFILL AND RESTORE TRENCH AND DISTURBED AREA.



SECTION

NOTES:

1. SEE LOG OF BORING CDM-101 FOR SUBSURFACE CONDITIONS NEAR CROSSING.

WATER MAIN, CEDAR STREET TWIN CULVERTS CROSSING

DETAIL C – NTS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3.30.18	SE	KMB	ADDENDUM NO 3

FILE NAME: DSTDT005
DESIGNED BY: J. DIERCKS
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X-CHK'D BY: B. HICKEY
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

MISCELLANEOUS DETAILS V

PLAN NUMBER

SHEET NO.
D-5

0930-101697

Xref's: [CDM_2436, CSTDT000, CSTPL001, 31-267 122811 2000] Images: []
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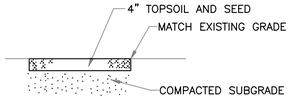
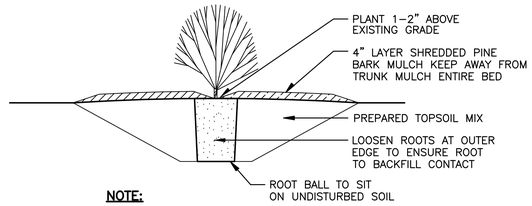


NOTE:
RESTORE SURFACE OF AREAS DISTURBED BY WORK AS SHOWN

SURFACE RESTORATION

DETAIL –

NTS



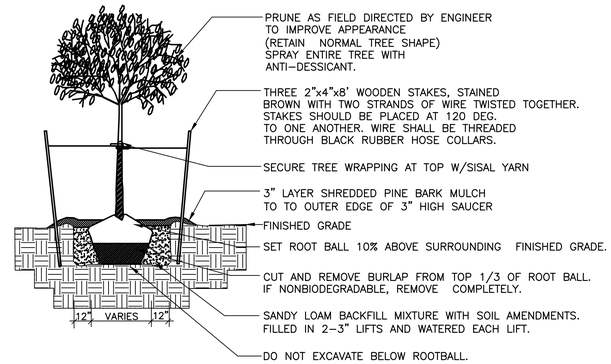
NOTE:

MULCH IN SHRUB BEDS SHALL EXTEND TO ADJACENT SHRUBS TO FORM ONE CONTINUOUS BED.

SHRUB PLANTING

DETAIL –

NTS



TREE PLANTING

DETAIL –

NTS

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: DSTDT006
DESIGNED BY: B. HICKEY
DRAWN BY: S. ENGEL
CHK'D BY: K. BIEDRON
X–CHK'D BY: C. COYLE
APPROVED BY J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

MISCELLANEOUS DETAILS VI

PLAN NUMBER

SHEET NO.

D-6

0930–101697

Xref's: [CDM_2436, CSTDT000] Images: []
Last saved by: ENGELSB Time: 7/20/2012 3:59:11 PM
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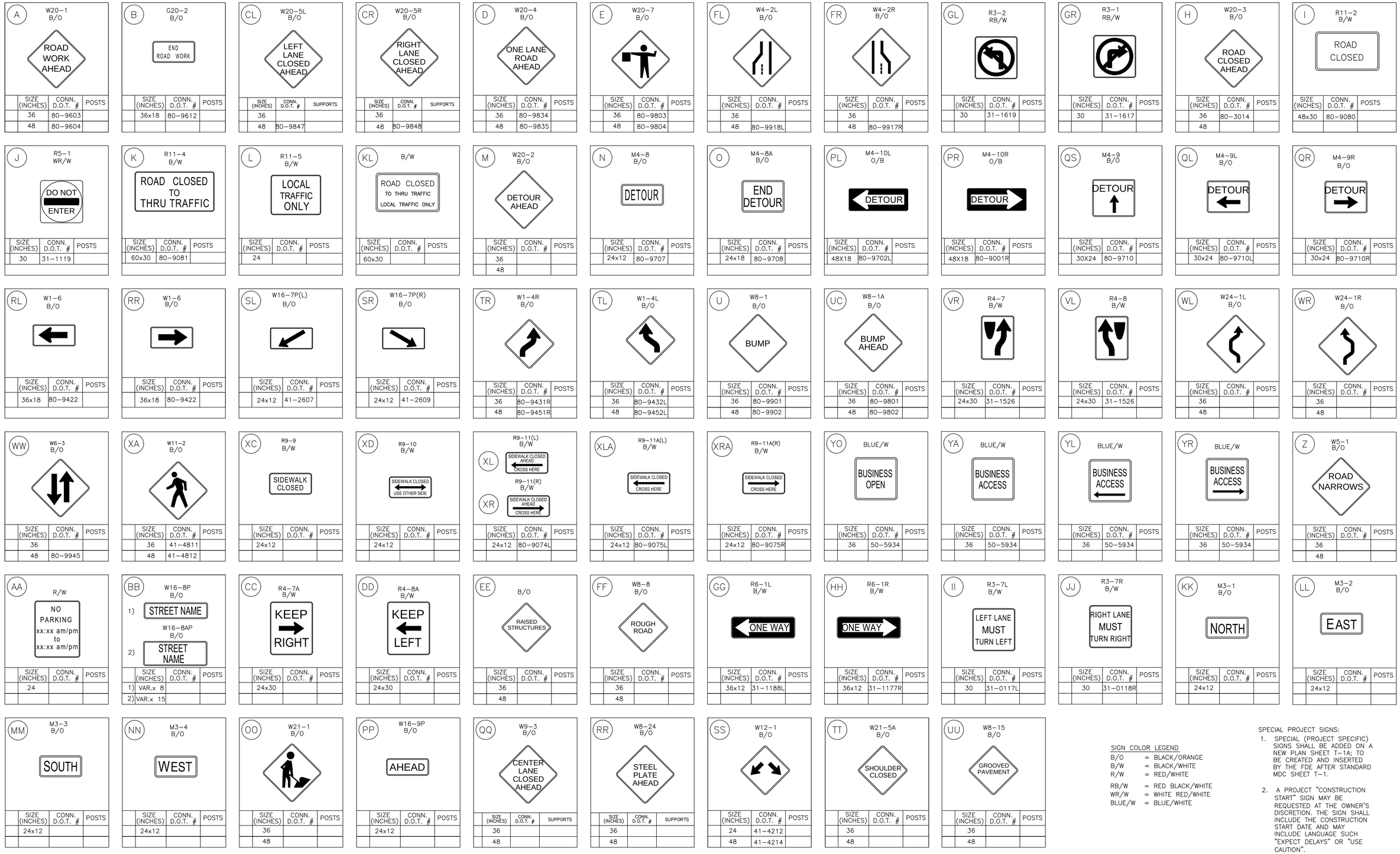


	SIZE (INCHES)	CONN. D.O.T. #	POSTS
A	36	80-9603	
	48	80-9604	
B	36x18	80-9612	
CL	36		
	48	80-9847	
CR	36		
	48	80-9848	
D	36	80-9834	
	48	80-9835	
E	36	80-9803	
	48	80-9804	
FL	36		
	48	80-9918L	
FR	36		
	48	80-9917R	
GL	30	31-1619	
GR	30	31-1617	
H	36	80-3014	
	48		
I	48x30	80-9080	
J	30	31-1119	
K	60x30	80-9081	
L	24		
KL	60x30		
M	36		
	48		
N	24x12	80-9707	
O	24x18	80-9708	
PL	48x18	80-9702L	
PR	48x18	80-9001R	
QS	30X24	80-9710	
QL	30x24	80-9710L	
QR	30x24	80-9710R	
RL	36x18	80-9422	
RR	36x18	80-9422	
SL	24x12	41-2607	
SR	24x12	41-2609	
TR	36	80-9431R	
	48	80-9451R	
TL	36	80-9432L	
	48	80-9452L	
U	36	80-9901	
	48	80-9902	
UC	36	80-9801	
	48	80-9802	
VR	24x30	31-1526	
VL	24x30	31-1526	
WL	36		
	48		
WR	36		
	48		
WW	36		
	48	80-9945	
XA	36	41-4811	
	48	41-4812	
XC	24x12		
XD	24x12		
XL	24x12	80-9074L	
XR			
XLA	24x12	80-9075L	
XRA	24x12	80-9075R	
YO	36	50-5934	
YA	36	50-5934	
YL	36	50-5934	
YR	36	50-5934	
Z	36		
	48		
AA	24		
BB	1) VAR.x 8		
	2) VAR.x 15		
CC	24x30		
DD	24x30		
EE	36		
	48		
FF	36		
	48		
GG	36x12	31-1188L	
HH	36x12	31-1177R	
II	30	31-0117L	
JJ	30	31-0118R	
KK	24x12		
LL	24x12		
MM	24x12		
NN	24x12		
OO	36		
	48		
PP	24x12		
QQ	36		
	48		
RR	36		
	48		
SS	24	41-4212	
	48	41-4214	
TT	36		
	48		
UU	36		
	48		

SIGN COLOR LEGEND

B/O = BLACK/ORANGE
B/W = BLACK/WHITE
R/W = RED/WHITE
RB/W = RED BLACK/WHITE
WR/W = WHITE RED/WHITE
BLUE/W = BLUE/WHITE

SPECIAL PROJECT SIGNS:

1. SPECIAL (PROJECT SPECIFIC) SIGNS SHALL BE ADDED ON A NEW PLAN SHEET T-1A; TO BE CREATED AND INSERTED BY THE FDE AFTER STANDARD MDC SHEET T-1.
2. A PROJECT "CONSTRUCTION START" SIGN MAY BE REQUESTED AT THE OWNER'S DISCRETION. THE SIGN SHALL INCLUDE THE CONSTRUCTION START DATE AND MAY INCLUDE LANGUAGE SUCH "EXPECT DELAYS" OR "USE CAUTION".

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

DATE:
JULY 2016

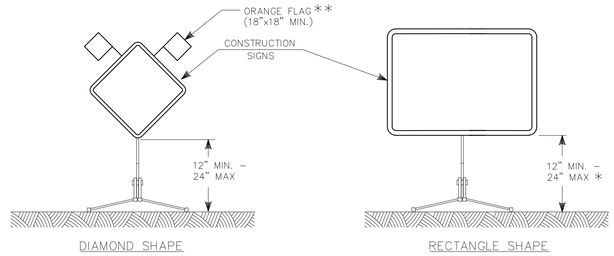
TRAFFIC CONTROL SIGNS

SOURCE: CTDOT, MUTCD AND MDC.

SHEET NO.
T-1

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
2. THE CONTRACTOR SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF SECTION 01570, MAINTENANCE AND PROTECTION OF TRAFFIC, AS PART OF THE CONTRACT DOCUMENTS.
3. CONTRACTOR TO BAG OR REMOVE ALL SIGNS WHEN THEY ARE NOT NEEDED.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES.
5. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN CROSSINGS AT INTERSECTIONS.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING PERMITS FROM THE MUNICIPALITY AND/OR CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT).
7. UNIFORMED POLICE OFFICERS MAY BE REQUIRED FOR TRAFFIC CONTROL.
8. TEMPORARY TRAFFIC CONTROL ON STATE ROADWAYS SHALL CONFORM TO CTDOT CONSTRUCTION TRAFFIC CONTROL PLANS.
9. CONSTRUCTION SIGNS SHALL BE ENCAPSULATED LENS REFLECTIVE SHEETING AND SHALL CONFORM TO SECTION 12.20 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATION, FORM 817. SIGNS MAY BE MOUNTED ON EITHER METAL SIGN POSTS OR PORTABLE SIGN SUPPORTS.
10. THE CONTRACTOR SHALL RELOCATE AND/OR REMOVE SIGNS, PAVEMENT MARKINGS, BARRIERS, DELINEATORS, ETC. AS THE WORK PROGRESSES.
11. THE CONTRACTOR SHALL COVER ALL CONFLICTING PAVEMENT MARKINGS WITH PREFORMED BLACK LINE MASK PAVEMENT MARKING TAPE AND SHALL REMOVE WHEN NO LONGER APPLICABLE (UNLESS OTHERWISE SPECIFIED WITHIN THE CONTRACT DOCUMENTS).
12. UPON COMPLETION OF THE SURFACE PAVEMENT RESTORATION, THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT PAVEMENT MARKINGS (I.E. CENTERLINES, LANE LINES, STOP BARS, CROSSWALKS, BUS/BICYCLE LANE MARKINGS, ETC.). INTERIM TEMPORARY MARKINGS MAY BE REQUIRED. SEE SECTION 01570 OF CONTRACT DOCUMENTS.
13. LOCATIONS FOR CONSTRUCTION SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE OWNER AND PLACED APPROPRIATELY FOR FIELD CONDITIONS.
14. CONE SPACING AND TAPER LENGTHS MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS.
15. TRAFFIC CONES SHALL BE 42 INCHES IN HEIGHT.
16. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED.
17. CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS ON AT LEAST ONE SIDE OF THE STREET.
18. CONTRACTOR TO MAINTAIN ACCESS FOR ANY SCHOOL BUS OR PUBLIC BUS AND COORDINATE WITH LOCAL PROVIDERS AS NECESSARY.
19. ALL COMMERCIAL AND PRIVATE DRIVES MUST REMAIN OPEN. IF DURING CONSTRUCTION, ACCESS TO THE AFFECTED BUSINESS IS NOT APPARENT, ADDITIONAL SIGNS (I.E. BUSINESS ACCESS) MAY BE REQUIRED.
20. TRAFFIC CONTROL PERSONS TO HAVE WALKIE TALKIES WHEN WORK ZONE IS IN A CURVE OR THERE ARE SIGHT DISTANCE RESTRICTIONS.
21. THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL MEASURES AT ALL TIMES.
22. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN PEDESTRIAN WALKWAYS WHERE EXISTING WALKWAYS ARE IN CLOSE PROXIMITY TO EXCAVATIONS OR WORK AREAS, OR ARE OTHERWISE OBSTRUCTED PER SECTION 01570 OF THE PROJECT MANUAL.
23. CONTRACTOR SHALL NOTIFY CONNECTICUT TRANSIT PRIOR TO IMPLEMENTING DETOURS. THE CONTRACTOR SHALL COORDINATE WITH CT TRANSIT TWO WEEKS IN ADVANCE OF IMPACTING STOP LOCATIONS.
24. CONTRACTOR SHALL INSTALL NEW TRAFFIC DETECTOR LOOPS WHERE EXISTING LOOPS ARE DISTURBED DURING CONSTRUCTION.
25. WORK ZONE SIZES ARE SHOWN AS APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ENSURE ADEQUATE SPACE FOR REQUIRED EQUIPMENT.
26. THE CONTRACTOR SHALL RELOCATE AND/OR REMOVE SIGNS AND OTHER TRAFFIC CONTROL DEVICES AS THE WORK PROGRESSES.
27. CONTRACTOR SHALL NOTIFY THE MUNICIPALITY INCLUDING FIRE AND POLICE AT LEAST TWO WEEKS PRIOR TO A ROAD CLOSURE.



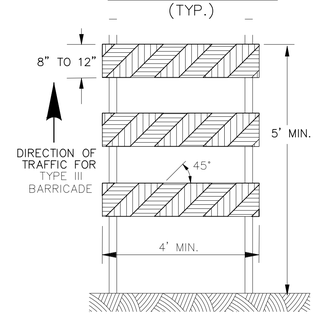
CONSTRUCTION SIGNS

** SIGN WITH ORANGE FLAGS SHALL REQUIRED AT THE OWNER'S DISCRETION.

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE OWNER.
3. THE MDC RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3). SIGNS NEED TO BE STABILIZED AS NEEDED, WHICH MAY INCLUDE SAND BAGS OR OTHER WEIGHTED DEVICES.
5. ROLL-UP SIGNS ARE PERMITTED FOR SHORT DURATION WORK ZONES (LESS THAN 1 HOUR).
6. USE 48" SIGNS ON ARTERIAL ROADWAYS WHEN FEASIBLE.

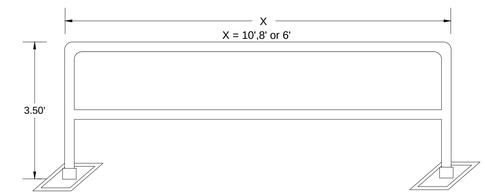
TYPE III BARRICADE (TYP.)



NOTES:

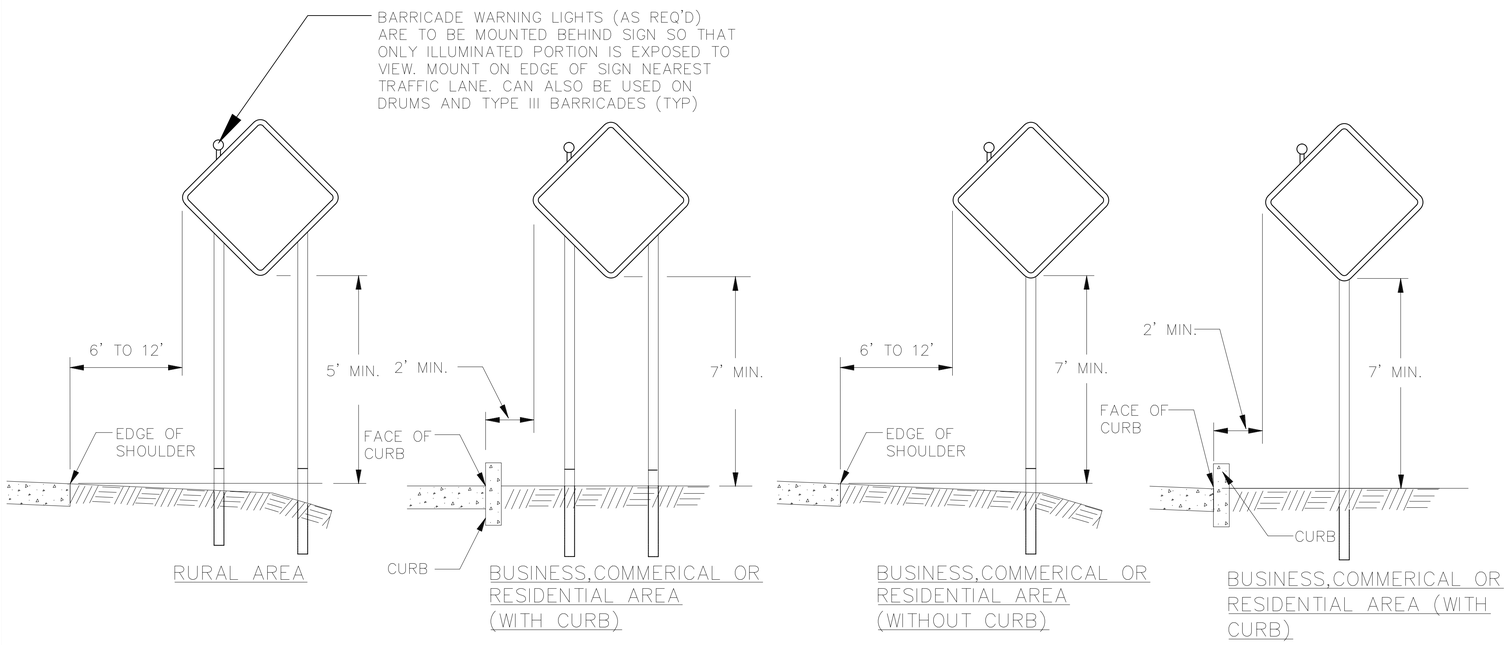
1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. THE MDC RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
5. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.

PEDESTRIAN GUIDE RAIL



NOTES:

1. PEDESTRIAN GUIDE RAILS SHALL BE FREE STANDING, PORTABLE MEET ALL APPLICABLE OSHA AND ANSI STANDARDS.
2. PEDESTRIAN GUIDE RAILS SHALL BE POWDER COATED YELLOW.
3. PEDESTRIAN GUIDE RAIL BASE PLATES SHALL BE HOT DIPPED GALVANIZED FOR DURABILITY AND BE SKID RESISTANT.



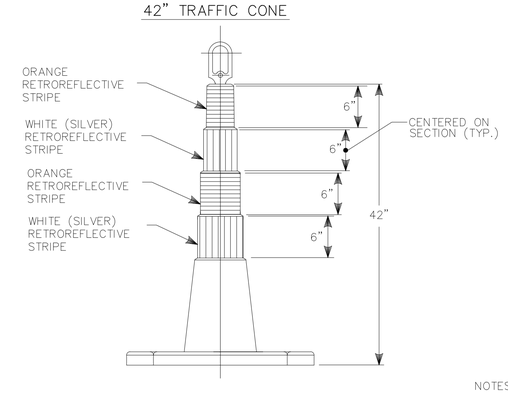
PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION

NOTES:

1. SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

SOURCE: MUTCD 2009 EDITION AND MDC.

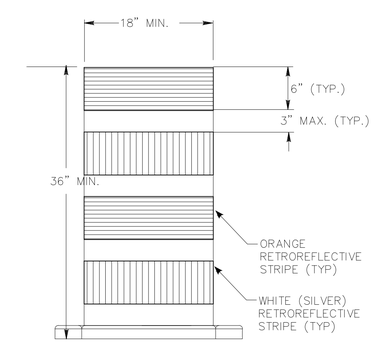
42" TRAFFIC CONE



NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE MDC RESERVES THE RIGHT TO REJECT ANY CONES DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.

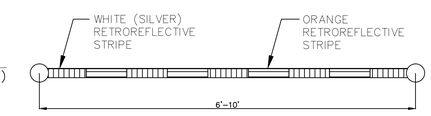
TRAFFIC DRUM



NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. THE MDC RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

TRAFFIC CONE BAR
(HOOK ON TOP OF 42" CONE)



MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

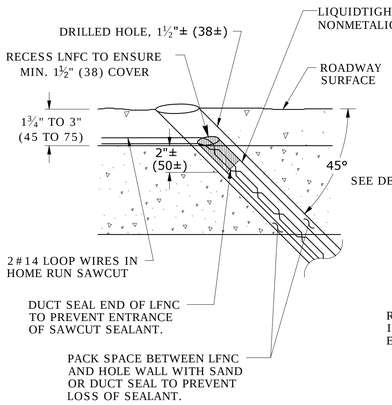
REV. NO.	DATE	DRWN	CHKD	REMARKS

DATE: JULY 2016

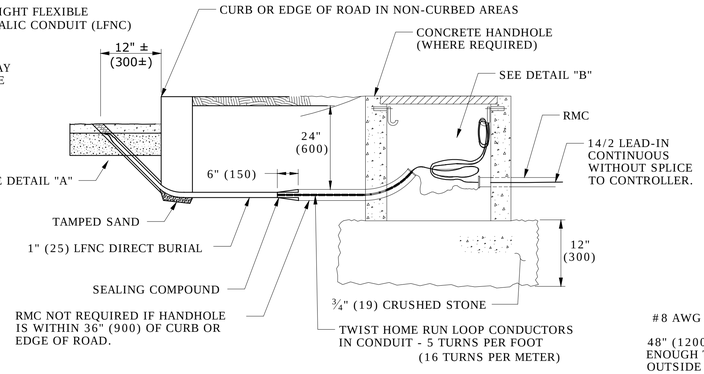
TRAFFIC CONTROL SIGNS AND DEVICES

SOURCE: CTDOT, MUTCD AND MDC.

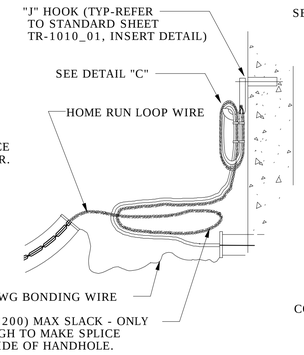
SHEET NO. T-2



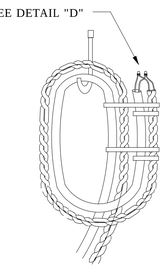
DETAIL "A"



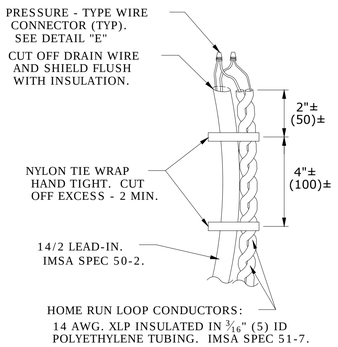
TYPICAL ELEVATION VIEW
LOOP DETECTOR LEAD-IN



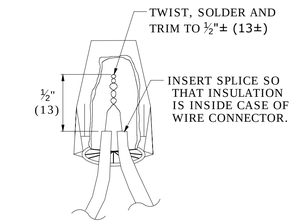
DETAIL "B"



DETAIL "C"
FRONT VIEW



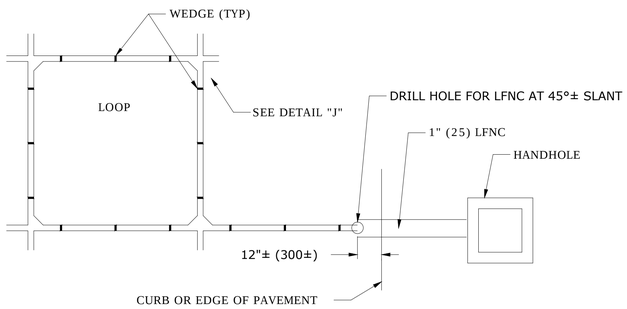
DETAIL "D"



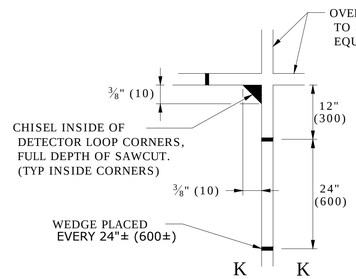
NOTE:

WATER RESISTANT CONNECTOR DESIGNED FOR WET, DAMP AND CORROSIVE APPLICATIONS. ONE TIME USE ONLY. DISCARD ALL REMOVED CONNECTORS.

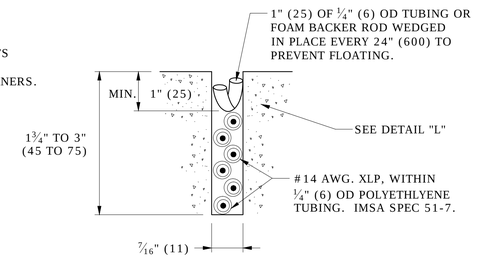
DETAIL "E"



TYPICAL PLAN VIEW
LOOP DETECTOR SAWCUT AND LEAD-IN

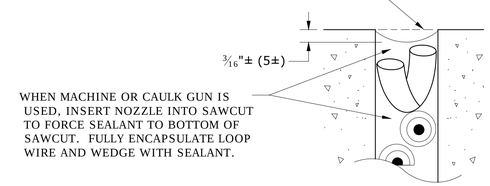


DETAIL "J"



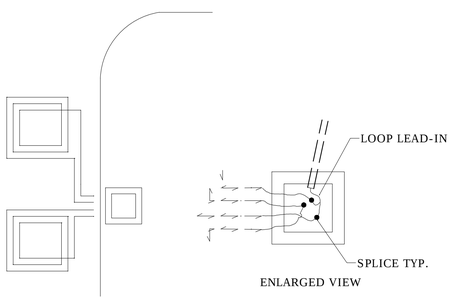
DETAIL "K"

POLYESTER SEALANT
FILL SEALANT FLUSH WITH PAVEMENT. SQUEEGEE EXCESS SEALANT AWAY FROM SAWCUT.



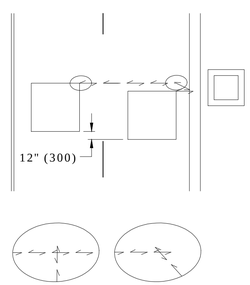
DETAIL "L"

NOTES:
REFER TO STANDARD SPECIFICATIONS, SECTION 11-11.
ONLY USE POLYESTER COMPOUND AS SEALANT, UNLESS OTHER TYPE IS APPROVED BY ENGINEER.
WET SAW CUT ONLY, DRY SAW CUT NOT PERMITTED.
RECOMMENDED SAW BLADE: 14" x ⅜" (350 x 10) PRODUCES 7/16" (11) SLOT.
SAW CUT LOOP & HOME RUN DEPTH TO ENSURE MIN. 1" (25) SEALANT COVERAGE.



TYPICAL WINDING
SEGMENTED LOOPS, 3 TURNS EACH

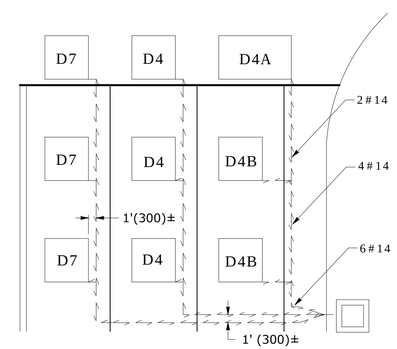
TO CREATE A UNIFORM MAGNETIC FIELD, WIND ADJACENT LOOPS IN OPPOSITE DIRECTIONS.



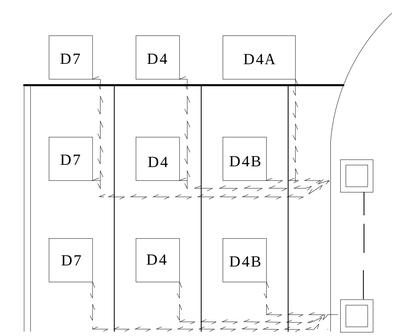
ACCEPTABLE SAW CUT

NOT ACCEPTABLE SAW CUT

DO NOT OVERLAP MORE THAN TWO SAWCUTS.



EXAMPLE A



EXAMPLE B
REAR SEGMENTS ALSO USED FOR VOLUME COUNTS

SEE TRAFFIC SIGNAL PLAN FOR ACTUAL LOOP PLACEMENT, NUMBERS, ETC...
LOOP SEGMENTS ON SAME AMPLIFIERS MAY SHARE HOME RUN SAW CUT. SPLICE SEGMENTS IN SERIES.
LOOP SEGMENTS ON DIFFERENT AMPLIFIERS MUST BE IN SEPARATE HOME RUN SAW CUT.

GENERAL NOTE:

CONTRACTOR TO COORDINATE REPLACEMENT OF LOOP DETECTOR WITH LOCAL MUNICIPALITY AND/OR CTDOT.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- INDUCTIVE LOOP DETECTOR
- SAW CUT
- RIGID METAL CONDUIT
- HANDHOLE

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

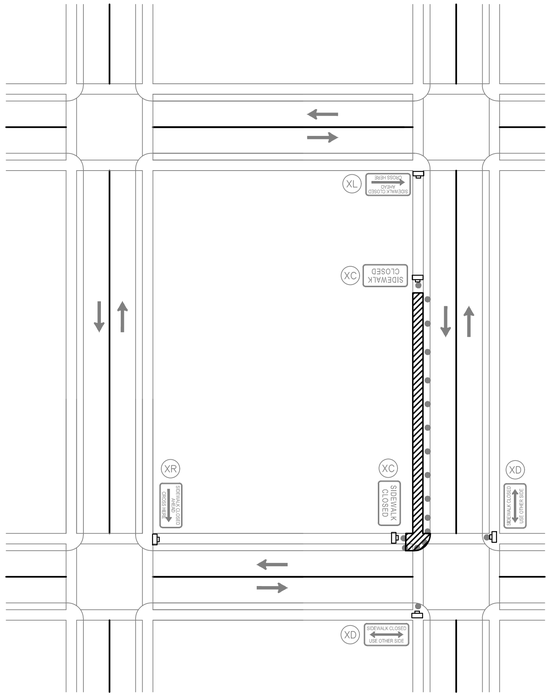
REV. NO.	DATE	DRWN	CHKD	REMARKS

DATE:
JULY 2016

LOOP VEHICLE DETECTOR AND SAWCUT

SOURCE: CTDOT

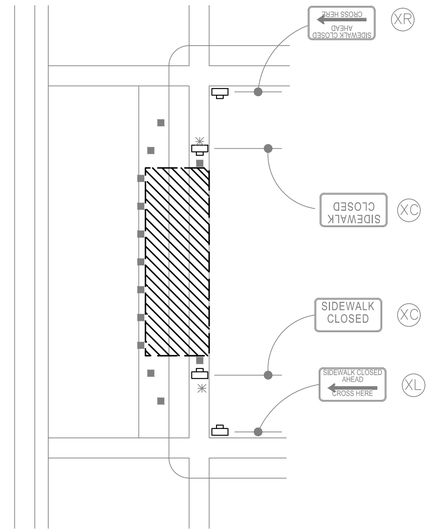
SHEET NO.
T-3



TYPICAL FOR CORNER SIDEWALK CLOSURE

PLAN

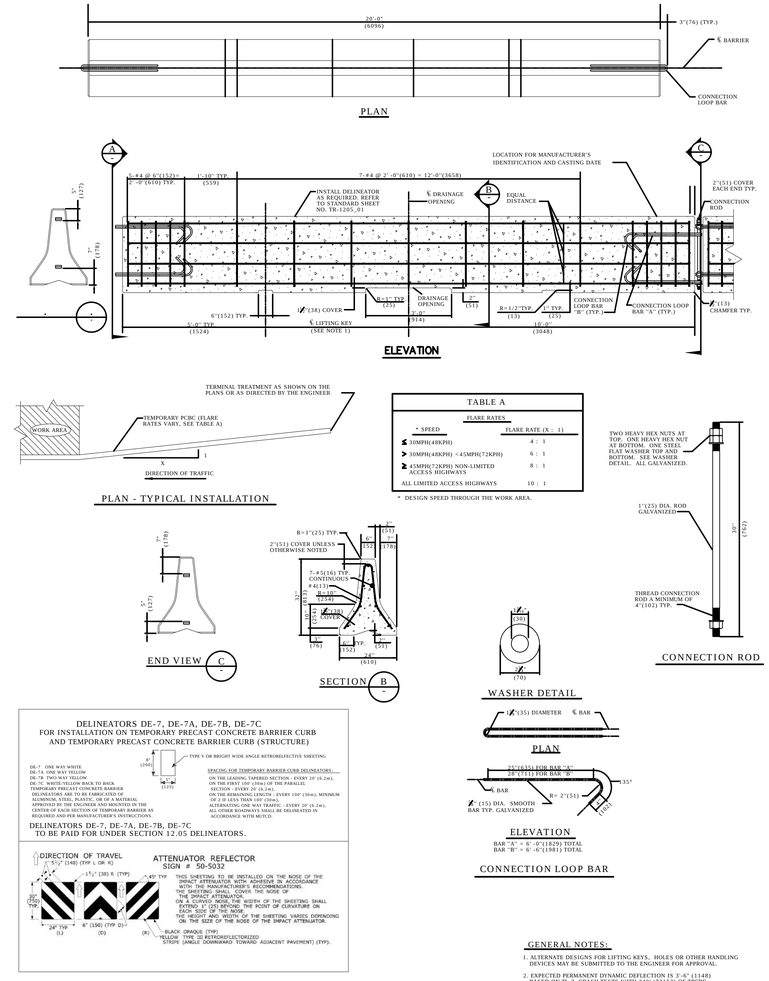
NTS



TYPICAL FOR SIDEWALK CLOSURE MID-BLOCK

PLAN

NTS



PLAN - TYPICAL INSTALLATION

TABLE A

FLARE RATES	
* SPEED	FLARE RATE (X : 1)
≤ 30MPH(48KPH)	4 : 1
> 30MPH(48KPH) < 45MPH(72KPH)	6 : 1
≥ 45MPH(72KPH) NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HIGHWAYS	10 : 1

* DESIGN SPEED THROUGH THE WORK AREA.

END VIEW C

SECTION B

WASHER DETAIL

CONNECTION ROD

CONNECTION LOOP BAR

GENERAL NOTES:

1. ALTERNATE DESIGNS FOR LIFTING KEYS. HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXPECTED PERMANENT DYNAMIC DEFLECTION IS 3'-6" (1148) BASED ON TL-3 CRASH TESTS WITH 240' (73152) OF TPCBC.

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

TYPICAL STREET SIGNS

XC R9-9 B/W

SIDEWALK CLOSED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12		

XD R9-10 B/W

SIDEWALK CLOSED
USE OTHER SIDE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12		

XL R9-11(L) B/W

SIDEWALK CLOSED AHEAD
CROSS HERE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12	80-9074L	

XR R9-11(R) B/W

SIDEWALK CLOSED AHEAD
CROSS HERE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12	80-9074R	

PROJECT SPECIFIC SIGNS

BB 1-A

WILBUR DRIVE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

BB 1-B

CEDAR VILLAGE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

BB 1-C

WILLARD AVENUE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

BB 1-D

CEDAR STREET

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

UU

ROAD WORK
AHEAD
FINES
DOUBLED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

XX(1)

DRIVEWAY CLOSED
USE ALTERNATE
ACCESS

SIZE (INCHES)	CONN. D.O.T. #	POSTS
-x-	80-9913	

XX(2)

ROUTE 173 SOUTH
CLOSED AHEAD
FOLLOW DETOUR

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

XX(3)

WILLARD AVENUE
SOUTHBOUND

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL004
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT · JOSEPH L. LALIBERTE · 28040 · LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TYPICAL DETAILS AND PROJECT SPECIFIC SIGNS

PLAN NUMBER

SHEET NO.

T-4

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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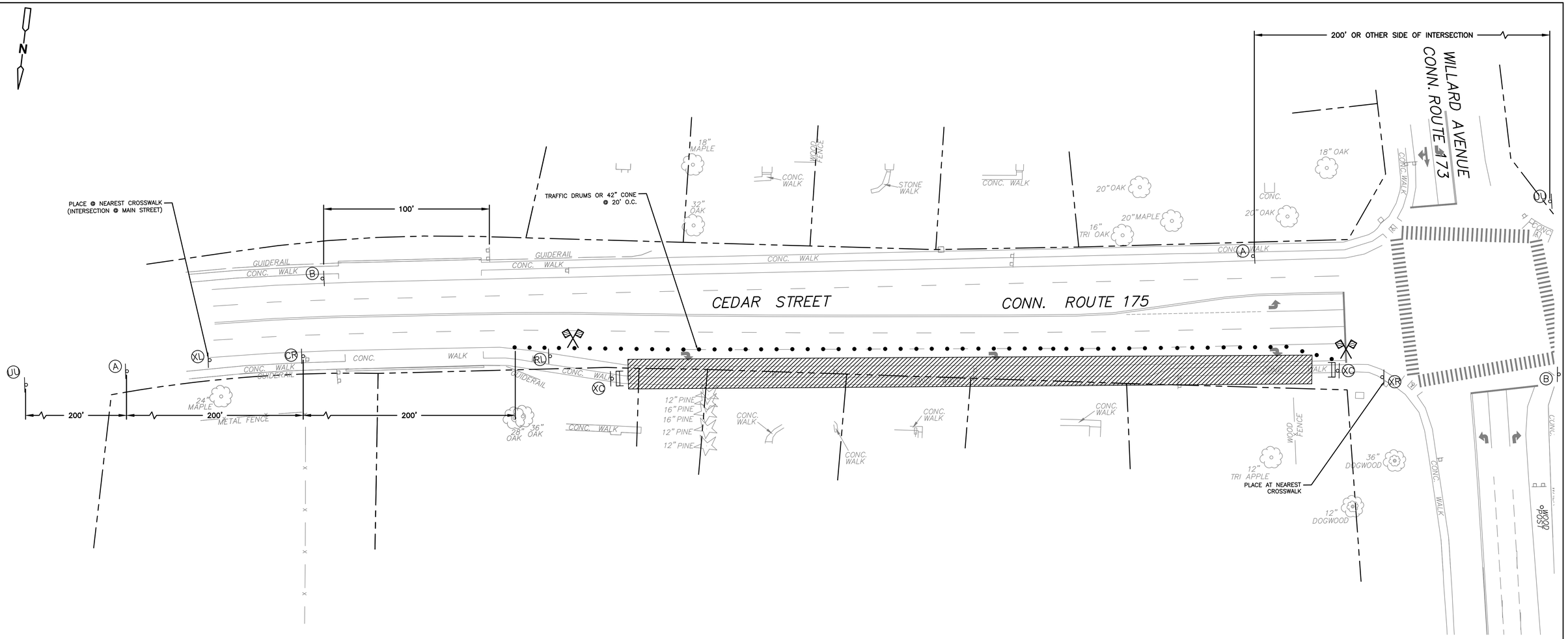

WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - WESTBOUND LANES
BETWEEN MILL STREET AND CT ROUTE 173 (WILLARD AVENUE)
FOR SEWER WORK APPROX. SEWER STA. 0+00 TO 7+00

PLAN

SCALE: 1"=30'-0"
1" = 30'
15 0 30

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

(A) W20-1

ROAD WORK AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

END ROAD WORK

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(CR)

RIGHT LANE CLOSED AHEAD

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	

(RL) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	2

(UU)

ROAD WORK AHEAD
FINES DOUBLED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(XC) R5-8

SIDEWALK CLOSED

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
30x18	80-9076	BARRICADE

(XL) R9-11(L) B/W

SIDEWALK CLOSED AHEAD
CROSS HERE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12	80-9074L	

(XR) R9-11(R) B/W

SIDEWALK CLOSED AHEAD
CROSS HERE

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x12	80-9074R	

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The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL005
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT
JOSEPH LALIBERTE
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LICENSED
PROFESSIONAL ENGINEER

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN V

PLAN NUMBER

SHEET NO.

T-5

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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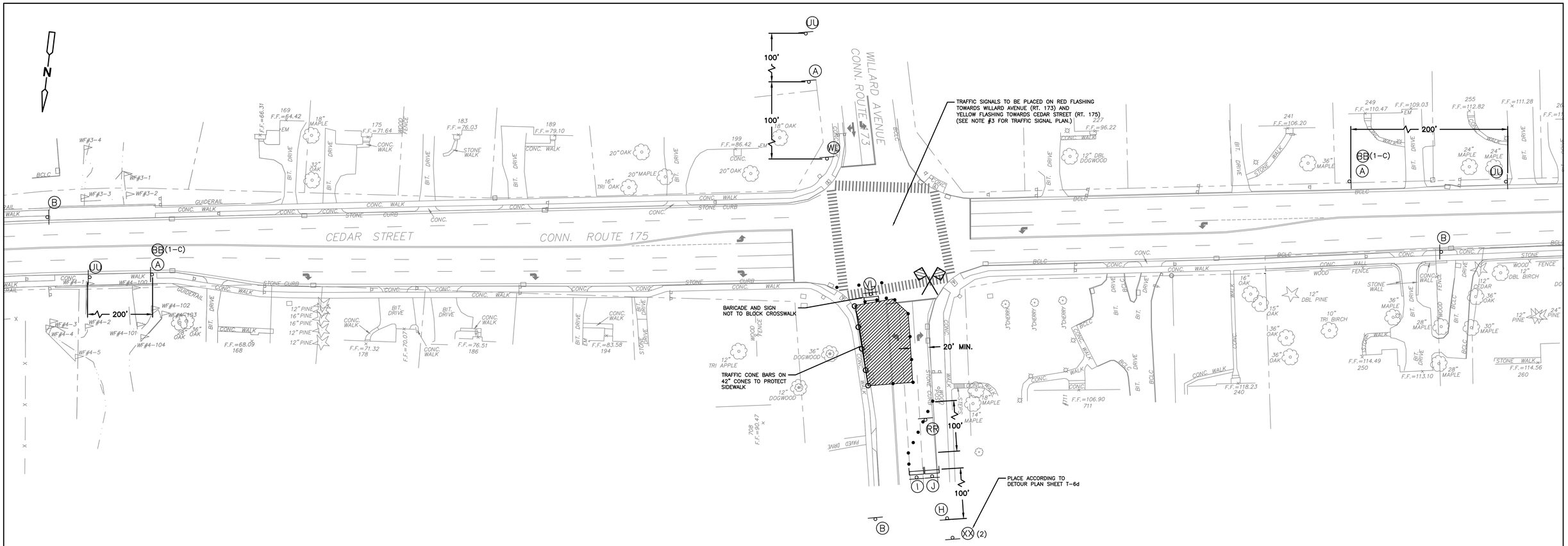


WORK DETAIL ON WILLARD AVENUE - ROAD CLOSURE
FOR SEWER WORK APPROX. SEWER STA. 7+00 TO 7+70
FOR WATER WORK APPROX. WATER STA. 19+35 TO 19+70

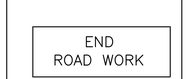
PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	1

(B) G20-2



SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	2

(BB) 1-C

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

(UU)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	2

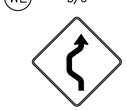
(RR) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(VL) R4-7

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R)	24x30	31-1526	1

(WL) W24-1L B/O



SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48		

(I) R11-2

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x30	80-9080	BARRICADE

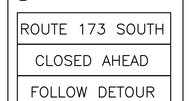
(H) W20-3

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-3014	1

(J) W20-3

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36x36	31-1120	1

(XX)(2)



SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	2

NOTES:

1. WORK TO BE PERFORMED DURING OVERNIGHT HOURS (10 PM – 5 AM)
2. SEE SHEET T-6d FOR DETOUR PLAN.
3. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.204.105 IN APPENDIX G.)
4. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	CONSTRUCTION FENCE
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL006a
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH P. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VIa

PLAN NUMBER

SHEET NO.

T-6a

0930-101697

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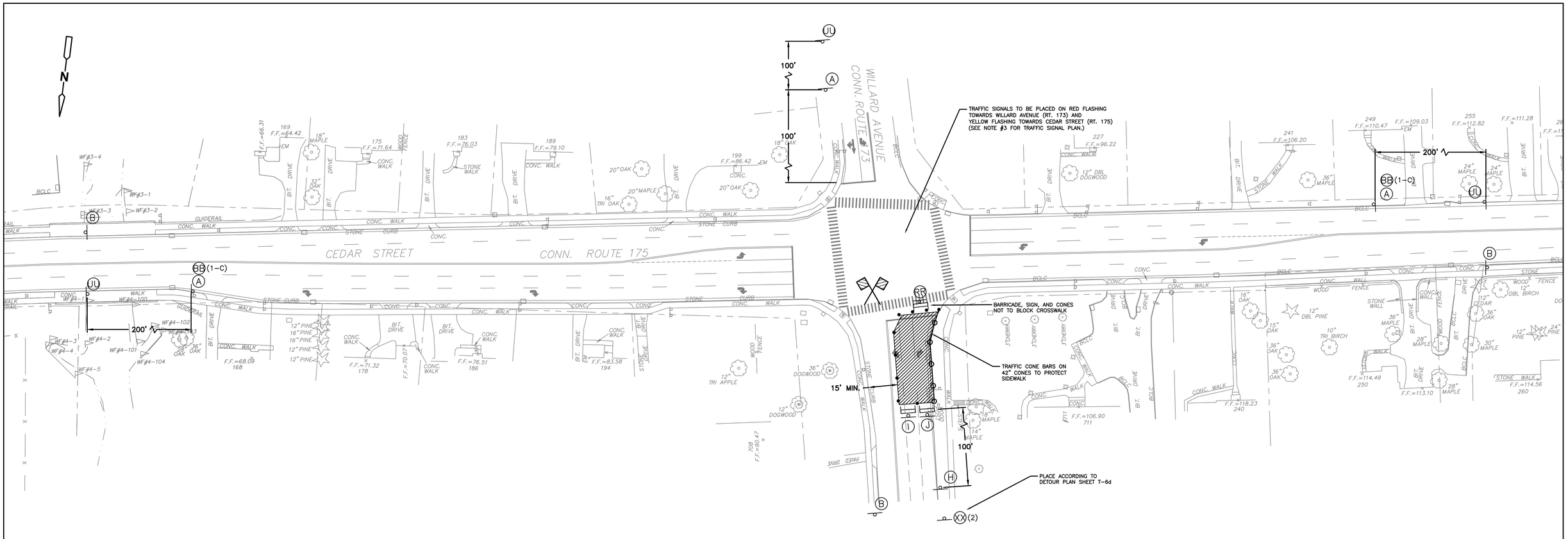
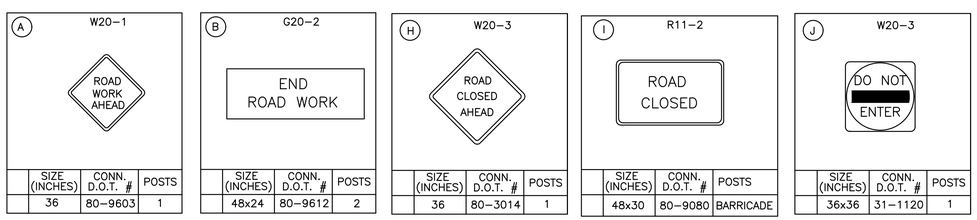


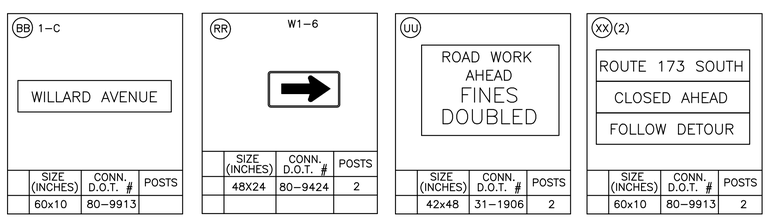
WORK DETAIL ON WILLARD AVENUE - ROAD CLOSURE
FOR SEWER WORK APPROX. SEWER STA. 7+70 TO 8+10
FOR WATER WORK APPROX. WATER STA. 19+60 TO 20+50

PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40



	SIZE (INCHES)	CONN. D.O.T. #	POSTS
A	36	80-9603	1
B	48x24	80-9612	2
H	36	80-3014	1
I	48x30	80-9080	BARRICADE
J	36x36	31-1120	1



	SIZE (INCHES)	CONN. D.O.T. #	POSTS
BB	60x10	80-9913	
RR	48X24	80-9424	2
UU	42x48	31-1906	2
XX	60x10	80-9913	2

NOTES:

1. WORK TO BE PERFORMED DURING OVERNIGHT HOURS (10 PM – 5 AM)

2. SEE SHEET T-6d FOR DETOUR PLAN.

3. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.204.105 IN APPENDIX G.)

4. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	CONSTRUCTION FENCE
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL006b
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VIb

PLAN NUMBER

SHEET NO.
T-6b

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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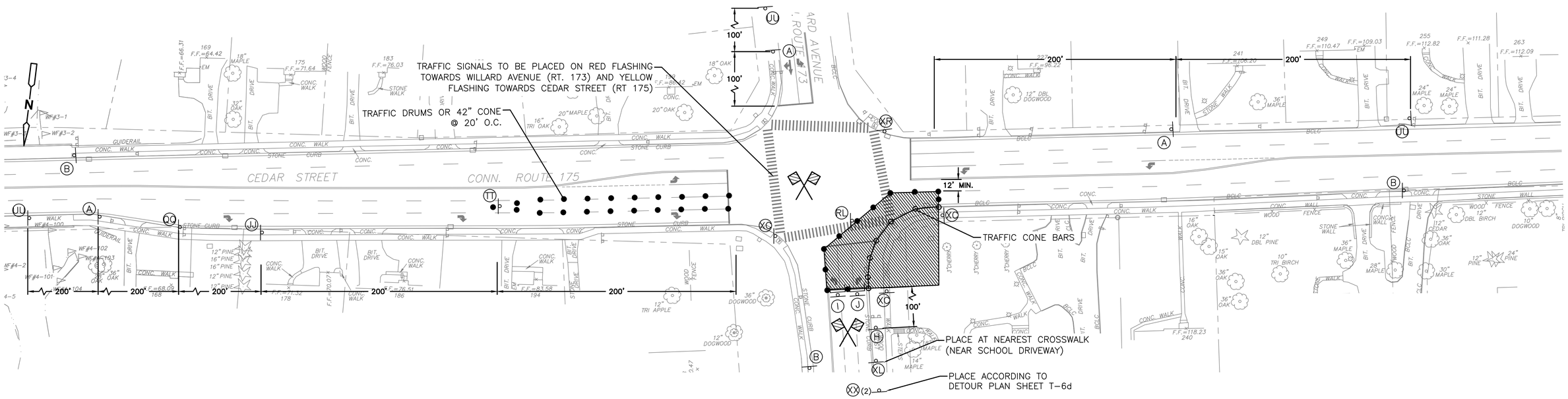
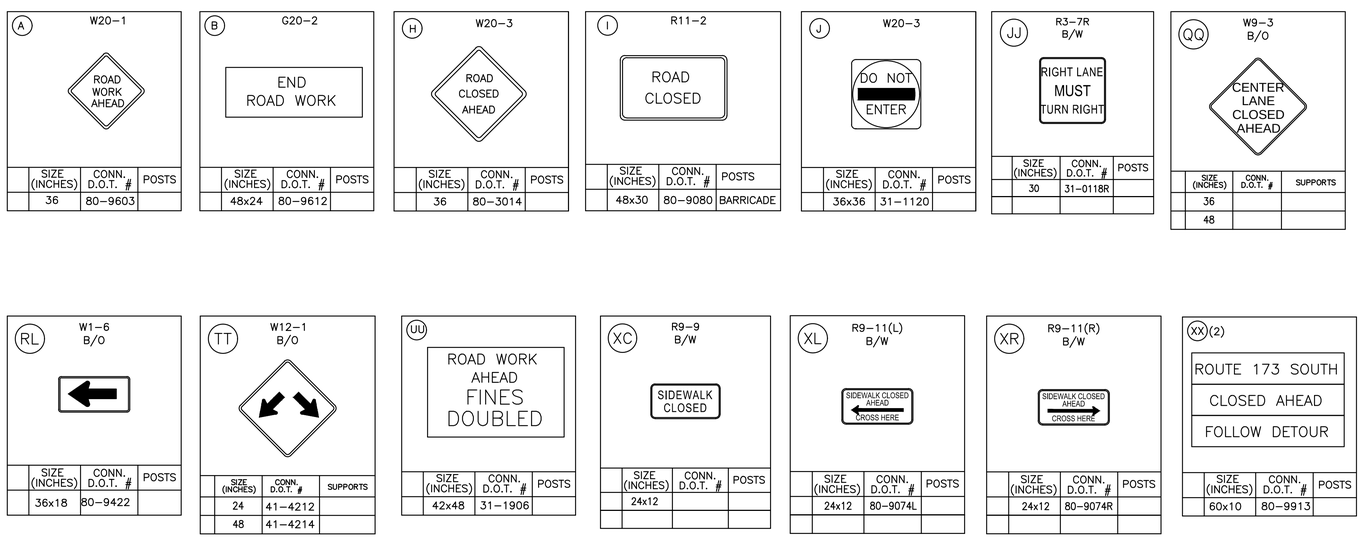


WORK DETAIL ON WILLARD AVENUE AT CEDAR ST- SOUTHBOUND ROAD CLOSURE
FOR SEWER WORK APPROX. SEWER STA. 8+10 TO 8+65

PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40



	SIZE (INCHES)	CONN. D.O.T. #	POSTS
A	36	80-9603	
B	48x24	80-9612	
H	36	80-3014	
I	48x30	80-9080	BARRICADE
J	36x36	31-1120	
JJ	30	31-0118R	
RL	36x18	80-9422	
XC	24x12		
XL	24x12	80-9074L	
XR	24x12	80-9074R	
XX(2)	60x10	80-9913	

	SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS
QQ	36		
	48		
TT	24	41-4212	
	48	41-4214	

NOTES:

1. WORK TO BE PERFORMED DURING OVERNIGHT HOURS (10 PM – 5 AM)
2. SEE SHEET T-6d FOR DETOUR PLAN.
3. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.204.105 IN APPENDIX G.)
4. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL006c
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VIc

PLAN NUMBER

SHEET NO.
T-6c

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
Last saved by: ENGELSB Time: 5/5/2025 9:52:28 AM
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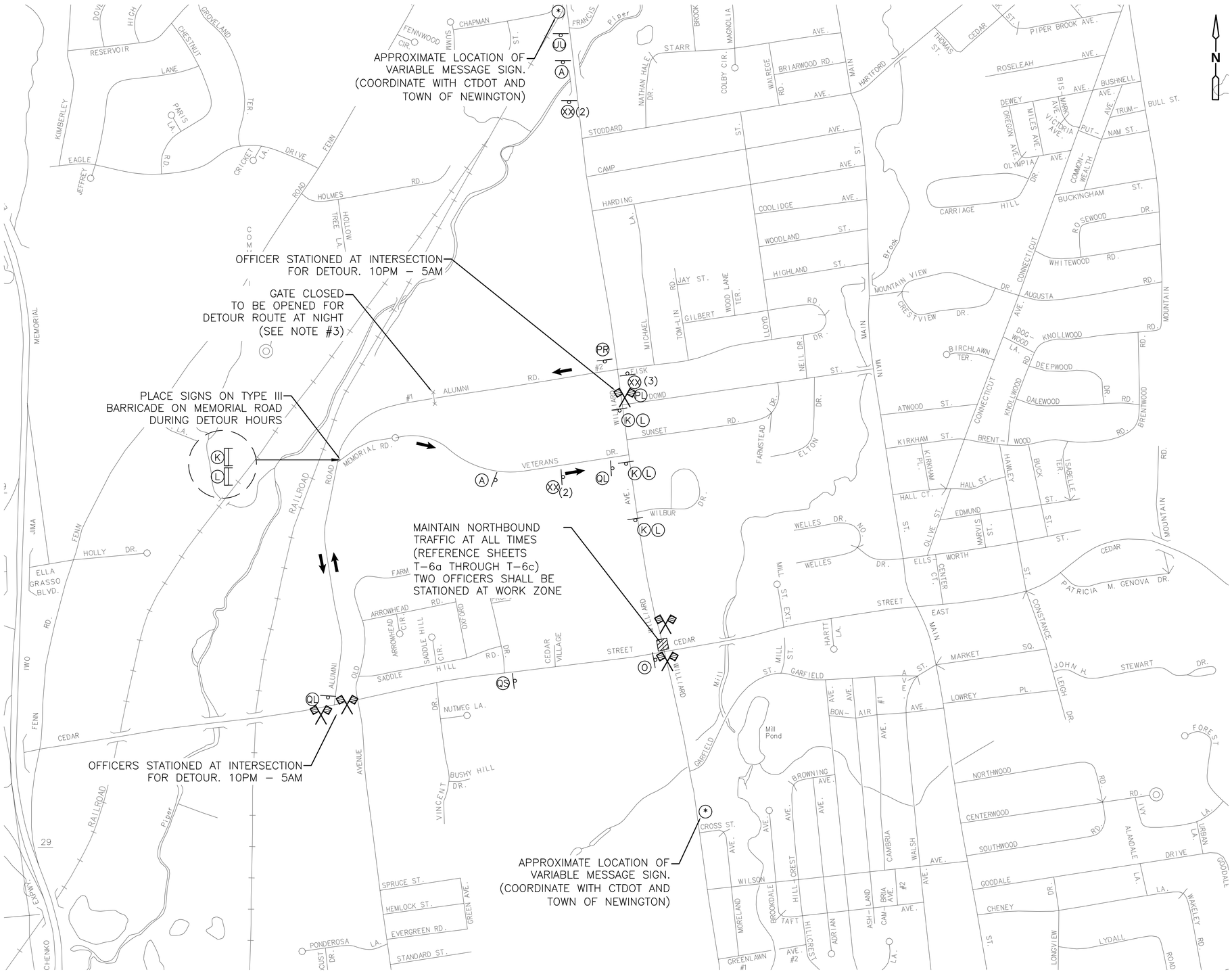

(A) W20–1		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80–9603	1

(XX)(2)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80–9913	2

(PR) M4–10		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X18	80–9701R	2
48X18	80–9701L	2

(XX)(3)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80–9913	2

(K)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x30	80–9081	2

(PL) M4–10		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X18	80–9701R	2
48X18	80–9701L	2

(UU)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31–1906	2

(QL)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 30x24	80–9710	1

(QS)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
30X24		

(O)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x18	80–9708	1

(L)		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x30		2

NOTES:

1. BAG OR REMOVE ALL DETOUR SIGNS WHEN NOT IN USE.
2. COORDINATE WITH CT TRANSIT/TOWN OF NEWINGTON/CTDOT.
3. THE OPENING AND CLOSING OF THE ALUMNI ROAD GATE IS TO BE MANAGED BY NEWINGTON POLICE DEPARTMENT. THE GATE WILL ONLY BE OPEN BETWEEN THE HOURS OF 10 PM AND 5 AM, DURING THE NIGHT TIME DETOUR. THE GATE WILL BE CLOSED AT ALL OTHER TIMES.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL006d
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X–CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VId
ROUTE 173 (WILLARD AVENUE) CLOSURE
TRAFFIC DETOUR PLAN

PLAN NUMBER

SHEET NO.
T-6d

0930–101697

Xref's: [CDM_2436, 093_10] Images: []
Last saved by: ENGELSB Time: 8/6/2012 8:34:46 AM
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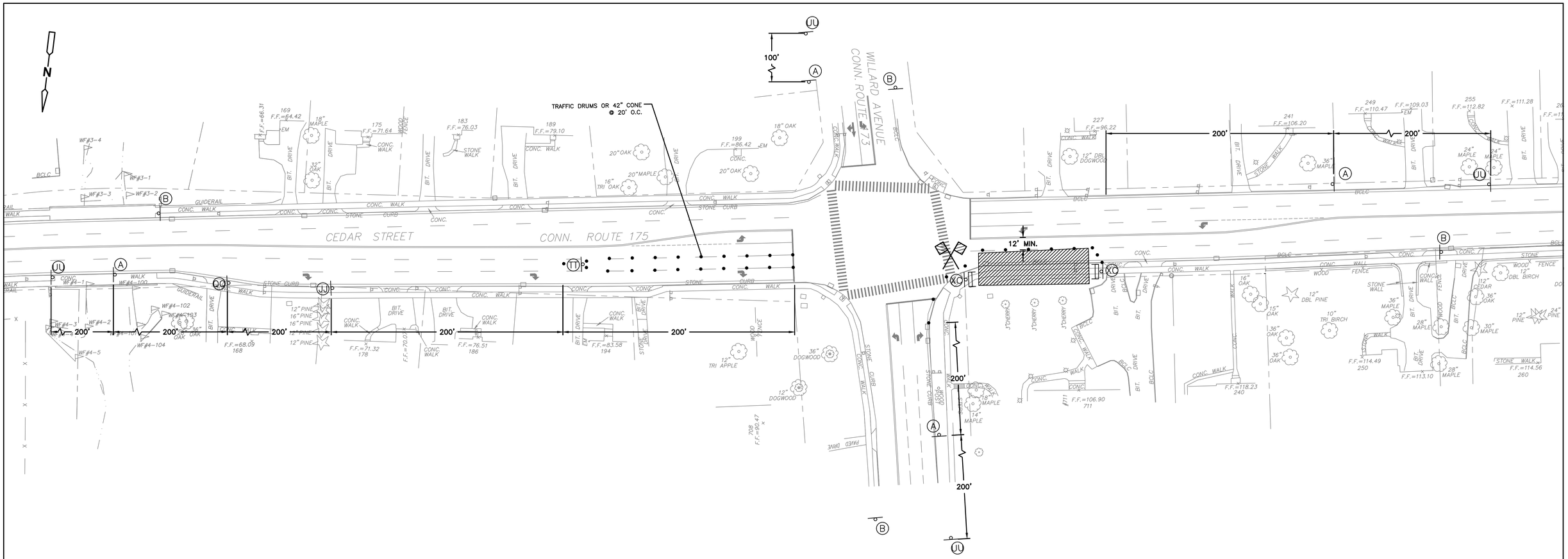
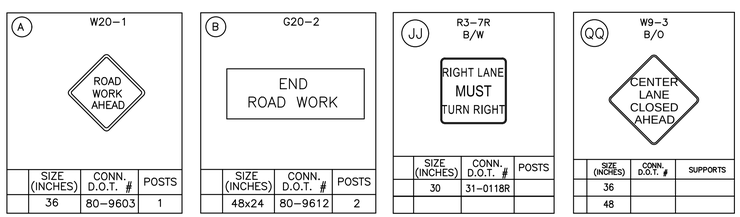
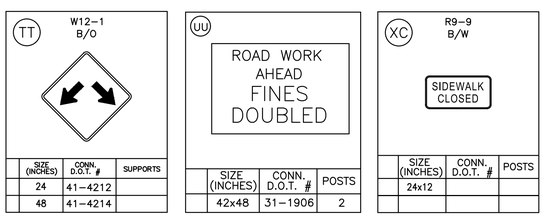


WORK DETAIL ON CEDAR STREET - WESTBOUND LANES
FOR SEWER WORK APPROX. SEWER STA. 8+65 TO 10+00

PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40





NOTES:

1. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.204.105 IN APPENDIX G.)

2. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	CONSTRUCTION FENCE
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL007
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH J. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VII

PLAN NUMBER

SHEET NO.
T-7

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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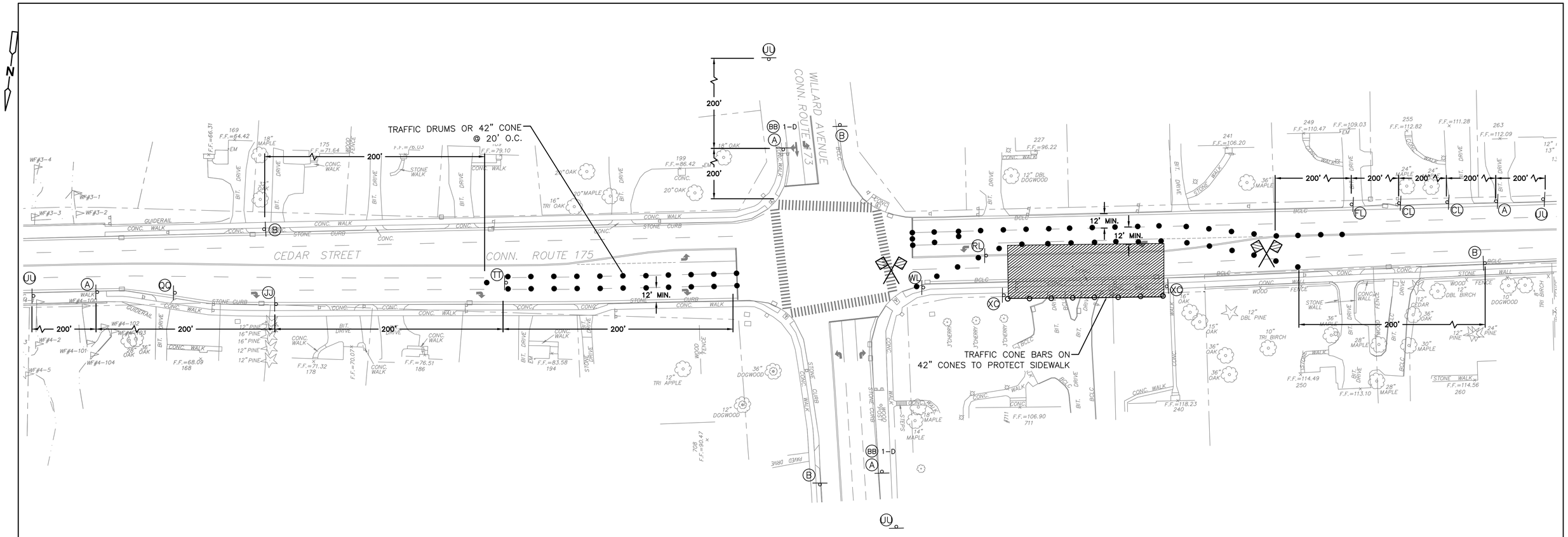


WORK DETAIL ON CEDAR STREET - WESTBOUND LANES
FOR SEWER WORK APPROX. SEWER STA. 10+00 TO 11+00
FOR WATER WORK APPROX. WATER STA. 21+50 TO 22+50

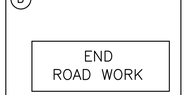
PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40

(A) W20-1

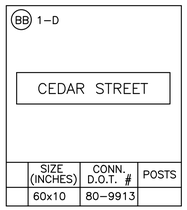
SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2



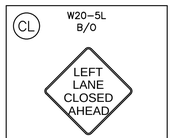
SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(BB) 1-D



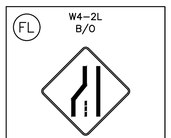
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

(CL) W20-5L B/O



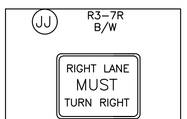
SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS
36		
48	80-9847	

(FL) W4-2L B/O



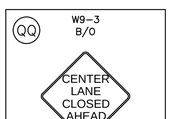
SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48	80-9918L	

(JJ) R3-7R B/W



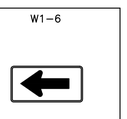
SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48		

(QQ) W9-3 B/O



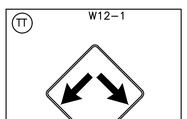
SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS
36		
48		

(RL) W1-6



SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(TT) W12-1

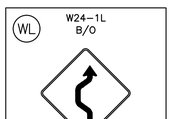


SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48		

(UU)

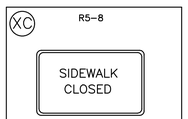
SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(WL) W24-1L B/O



SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48		

(XC) R5-8



SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
30x18	80-9076	BARRICADE

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL008
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN VIII

PLAN NUMBER

SHEET NO.

T-8

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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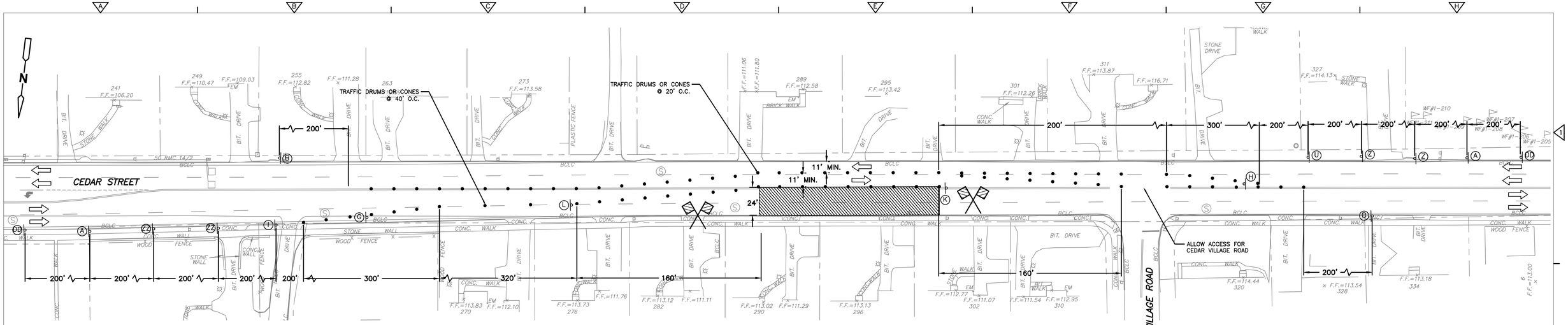


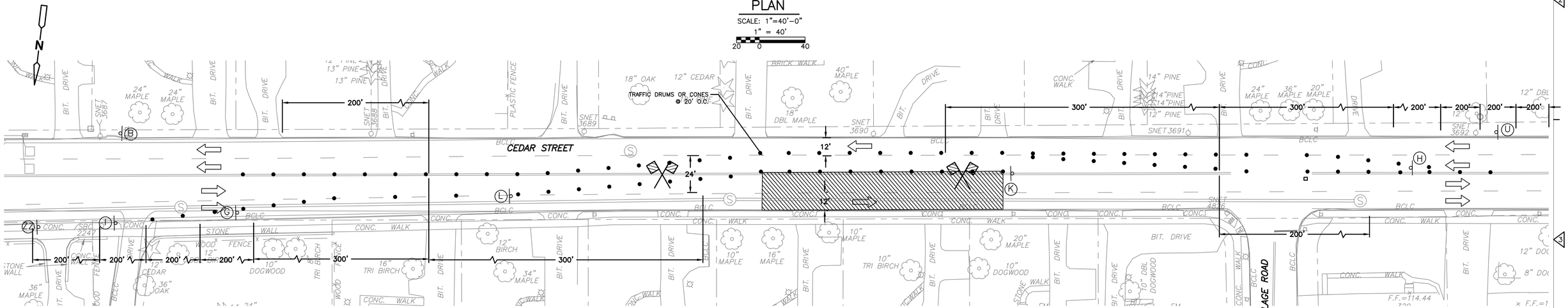
WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - WESTBOUND LANES
TYPICAL FOR WATER WORK - ALTERNATE A - WORK IN WESTBOUND LANES
CTDOT PLAN

PLAN

SCALE: 1"=40'-0"

1" = 40'

20 0 40



WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - CENTER LANES
TYPICAL FOR WATER WORK - ALTERNATE B

PLAN

SCALE: 1"=30'-0"

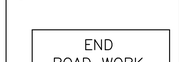
1" = 30'

15 0 30

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	1

(B) G20-2



SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	2

(DD)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	2

(G) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	2

(H) W1-6

SIZE (INCHES)	CONN. D.O.T. #	
48X24	80-9424	

(I) W4-2

(R)

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R)	48	80-9917	2

(K) W1-4R

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R)	36	80-9431	1

(L) W1-4L

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	36	80-9432	1

(U) W4-2

(L)

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	48	80-9918	2

(Z)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(ZZ)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	2

NOTES:

1. WORK AT SIDE STREETS TO BE COMPLETED LEAVING SPACE FOR 1 LANE OF TRAFFIC TO ACCESS SIDE STREET. SEE SHEET T-12 FOR TYPICAL DETAIL.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	CONSTRUCTION FENCE
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. KALLURI
DRAWN BY: L. VIERA
SHEET CHK'D BY: P. SCHMIDT
CROSS CHK'D BY:
APPROVED BY:
DATE: NOVEMBER 2014

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

THE METROPOLITAN DISTRICT
HARTFORD, CONNECTICUT
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA
CONTRACT No. 2011-73

TRAFFIC MANAGEMENT PLAN IX

PROJECT NO. 0930-101697
FILE NAME: TSTPL009
SHEET NO.
T-9

90% DESIGN SUBMITTAL - NOT FOR CONSTRUCTION

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: 0
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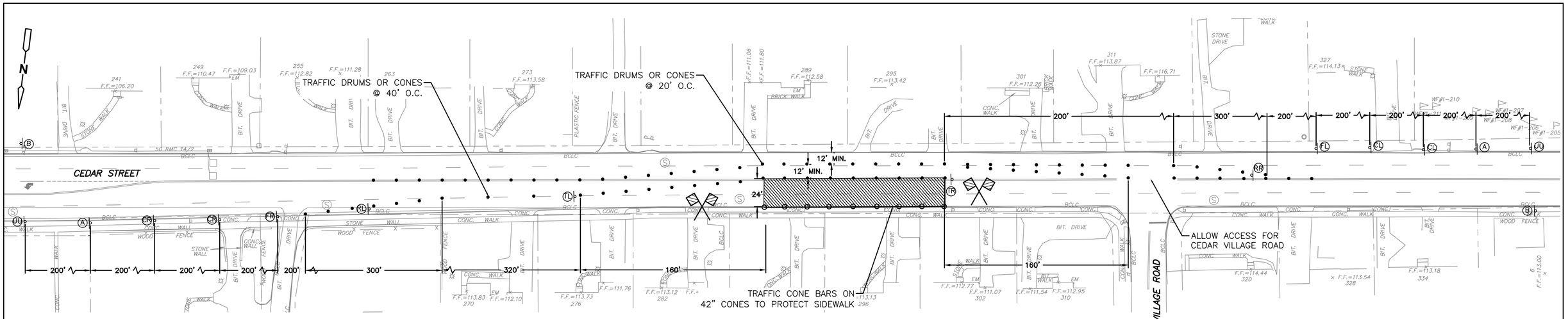
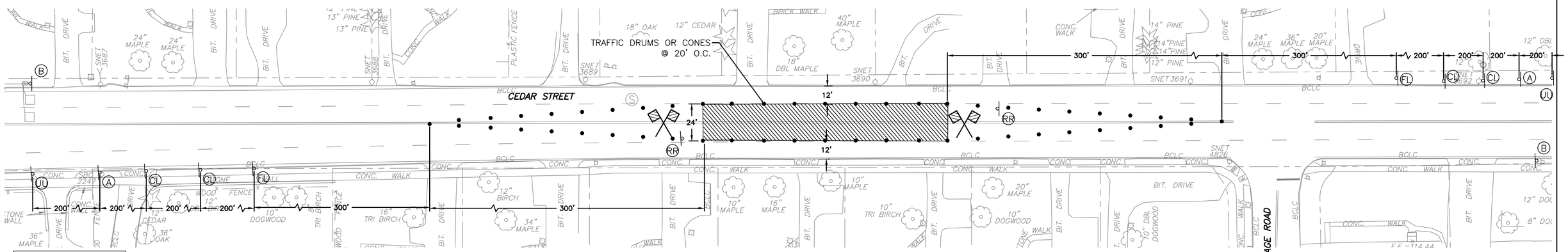


WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - WESTBOUND LANES
TYPICAL FOR WATER AND SEWER WORK - ALTERNATE A - WORK IN WESTBOUND LANES
APPROX. WATER STA. 22+50 TO 38+00 AND APPROX. SEWER STA. 11+00 TO 24+30

PLAN

SCALE: 1"=40'-0"



WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - CENTER LANES
TYPICAL FOR WATER WORK - ALTERNATE B
APPROX. WATER STA. 22+50 TO 38+00

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30

(A) W20-1 — ROAD WORK AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2 — END ROAD WORK

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(UU) ROAD WORK AHEAD FINES DOUBLED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(RL) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(RR) W1-6

SIZE (INCHES)	CONN. D.O.T. #
48X24	80-9424

(FR) W4-2 (R)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R) 48	80-9917	

(TR) W1-4R

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R) 36	80-9431	

(TL) W1-4L

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 36	80-9432	

(FL) W4-2 (L)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 48	80-9918	

(CL) LEFT LANE CLOSED AHEAD

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(CR) RIGHT LANE CLOSED AHEAD

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	2

NOTES:

1. WORK AT SIDE STREETS TO BE COMPLETED LEAVING SPACE FOR 1 LANE OF TRAFFIC TO ACCESS SIDE STREET.
2. SEE SHEET T-18 FOR TYPICAL TRAFFIC CONTROL DETAILS FOR WORK ZONES @ SIDE STREETS. (CEDAR VILLAGE AND OLD FARM).
3. REFERENCE CTDOT CONSTRUCTION TRAFFIC CONTROL PLANS #11 AND #12.

LEGEND

(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL010
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT — JOSEPH LALIBERTE — 28040 — LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN X

PLAN NUMBER

SHEET NO.

T-10

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: 0
Last saved by: ENGELSB Time: 8/5/2025 8:15:28 AM
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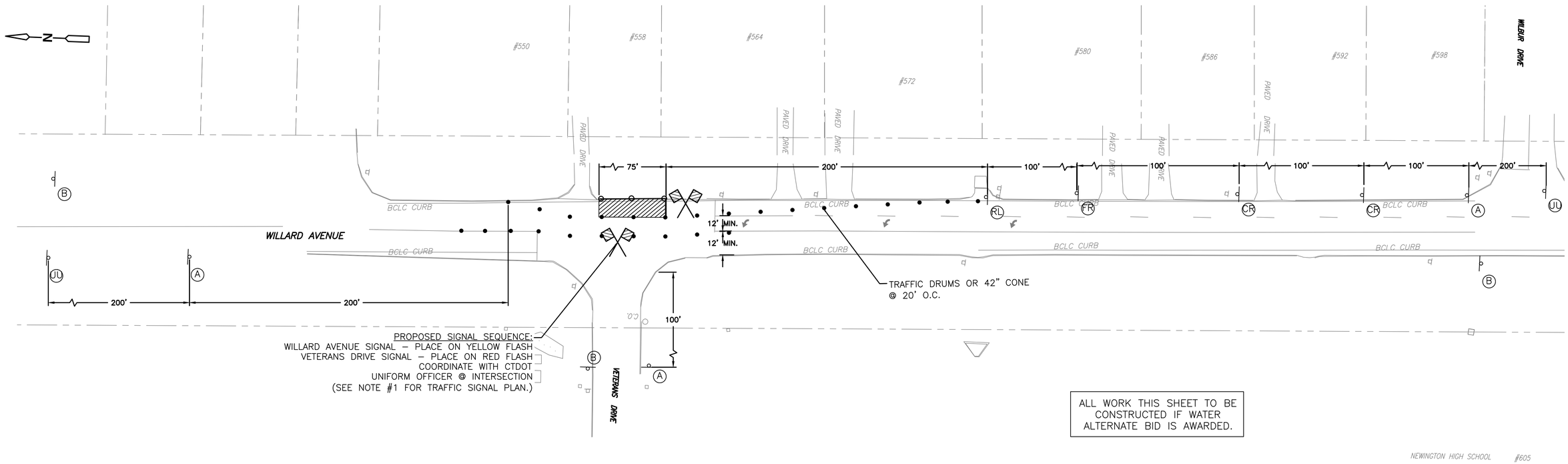

WORK DETAIL ON WILLARD AVENUE AT VETERANS DRIVE INTERSECTION
FOR WATER WORK APPROX. WATER STA. 0+00 TO 1+00

PLAN

SCALE: 1"=30'-0"
1" = 30'
15 0 30

NOTES:

1. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.205.012 IN APPENDIX G.

2. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

(A) W20-1

ROAD WORK AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

END ROAD WORK

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(UU)

ROAD WORK AHEAD
FINES DOUBLED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(RL) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	2

(FR) W4-2

(R)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R) 48	80-9917	

(CR)

RIGHT LANE CLOSED AHEAD

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	2

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL011
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XI

PLAN NUMBER

SHEET NO.

T-11

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: []
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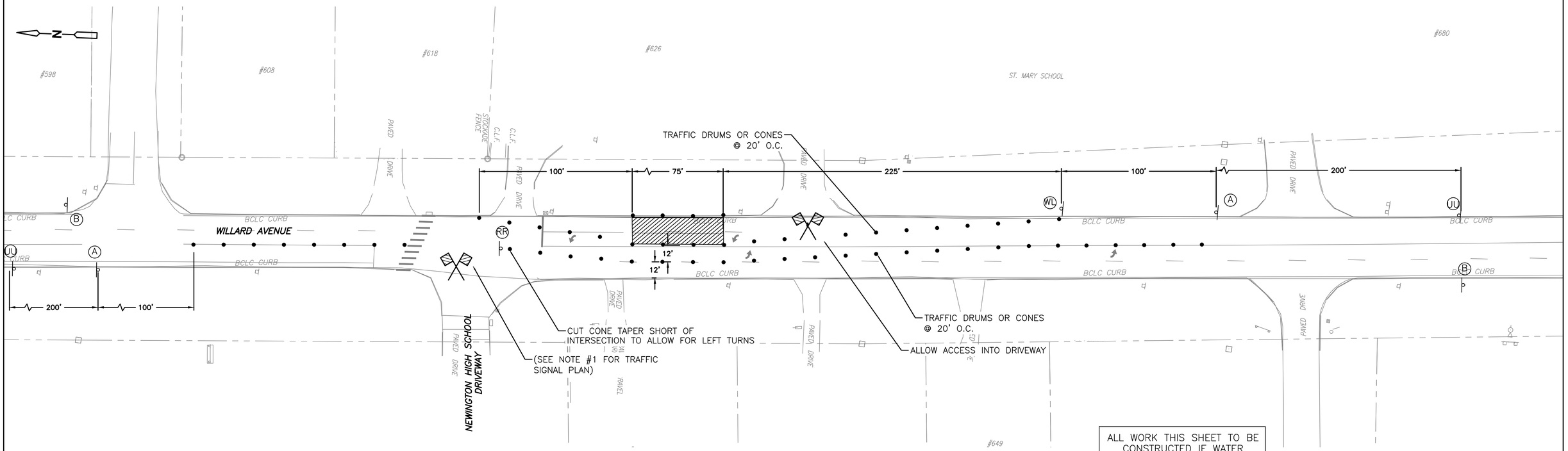

ALL WORK THIS SHEET TO BE CONSTRUCTED IF WATER ALTERNATE BID IS AWARDED.

WORK DETAIL ON WILLARD AVENUE - NORTHBOUND LANES
TYPICAL FOR WATER WORK APPROX. WATER STA. 1+00 TO 19+00

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30

NOTES:

1. RESTORE TRAFFIC SIGNAL LOOP DETECTORS IF NEEDED. TEMPORARY LOOP DETECTORS SHALL BE INSTALLED WITHIN 24 HOURS. (REFERENCE TRAFFIC SIGNAL PLAN 093.232.011 IN APPENDIX G.

2. PERMANENT LOOP DETECTORS SHALL BE RESTORED WITHIN 10 DAYS OF FINAL PAVEMENT RESTORATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(UU)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(RR) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(WL) W24-1

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	36	80-9056	
(R)	36	80-9056	

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL012
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
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East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XII

PLAN NUMBER

SHEET NO.

T-12

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: 0
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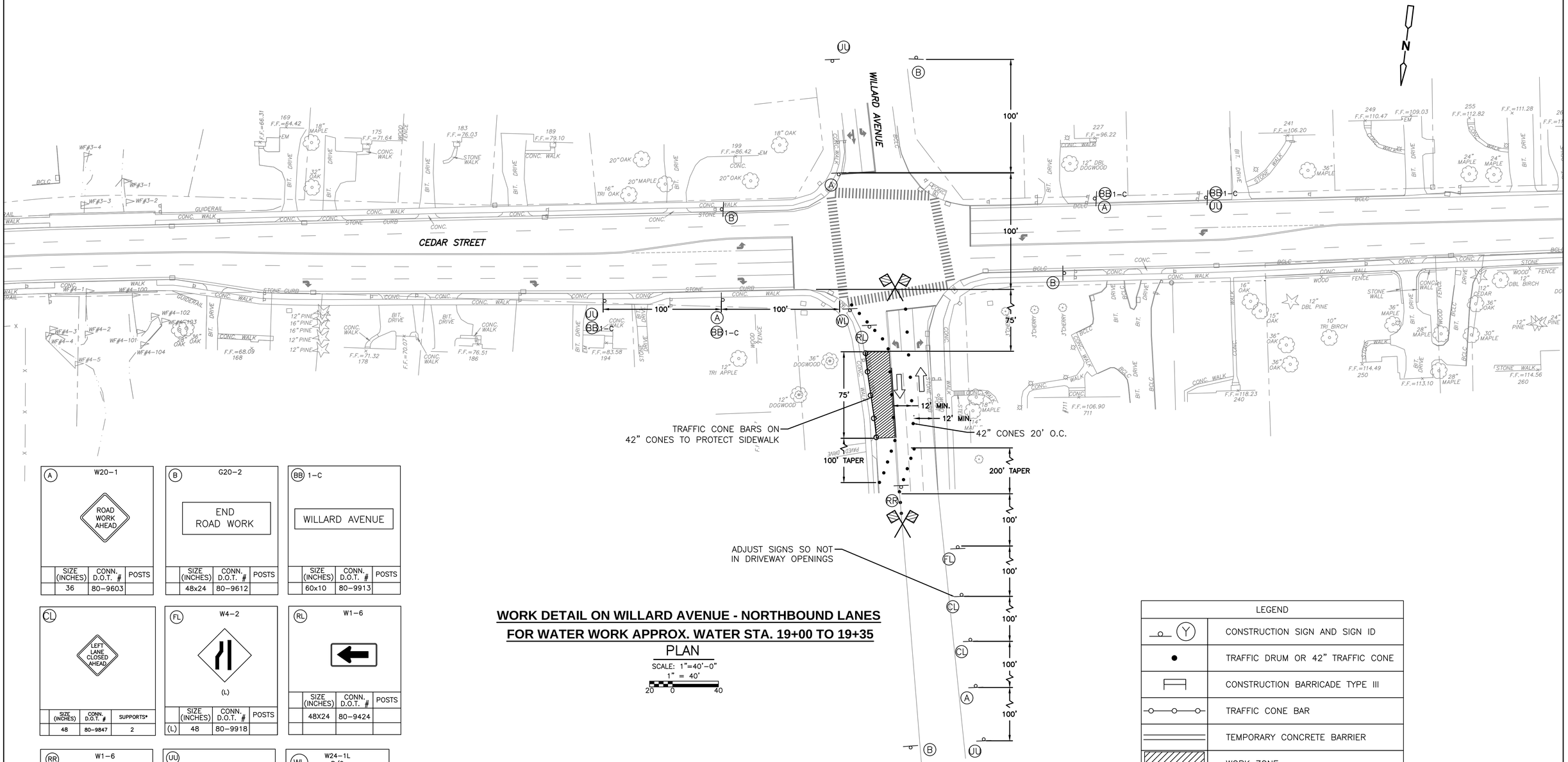

WORK DETAIL ON WILLARD AVENUE - NORTHBOUND LANES
FOR WATER WORK APPROX. WATER STA. 19+00 TO 19+35

PLAN

SCALE: 1"=40'-0"
1" = 40'
20 0 40

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(BB) 1-C

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	

(CL)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(FL) W4-2

(L)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 48	80-9918	

(RL) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(RR) W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

(UU)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(WL) W24-1L B/O

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		
48		

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL013
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XIII

PLAN NUMBER

SHEET NO.
T-13

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: []
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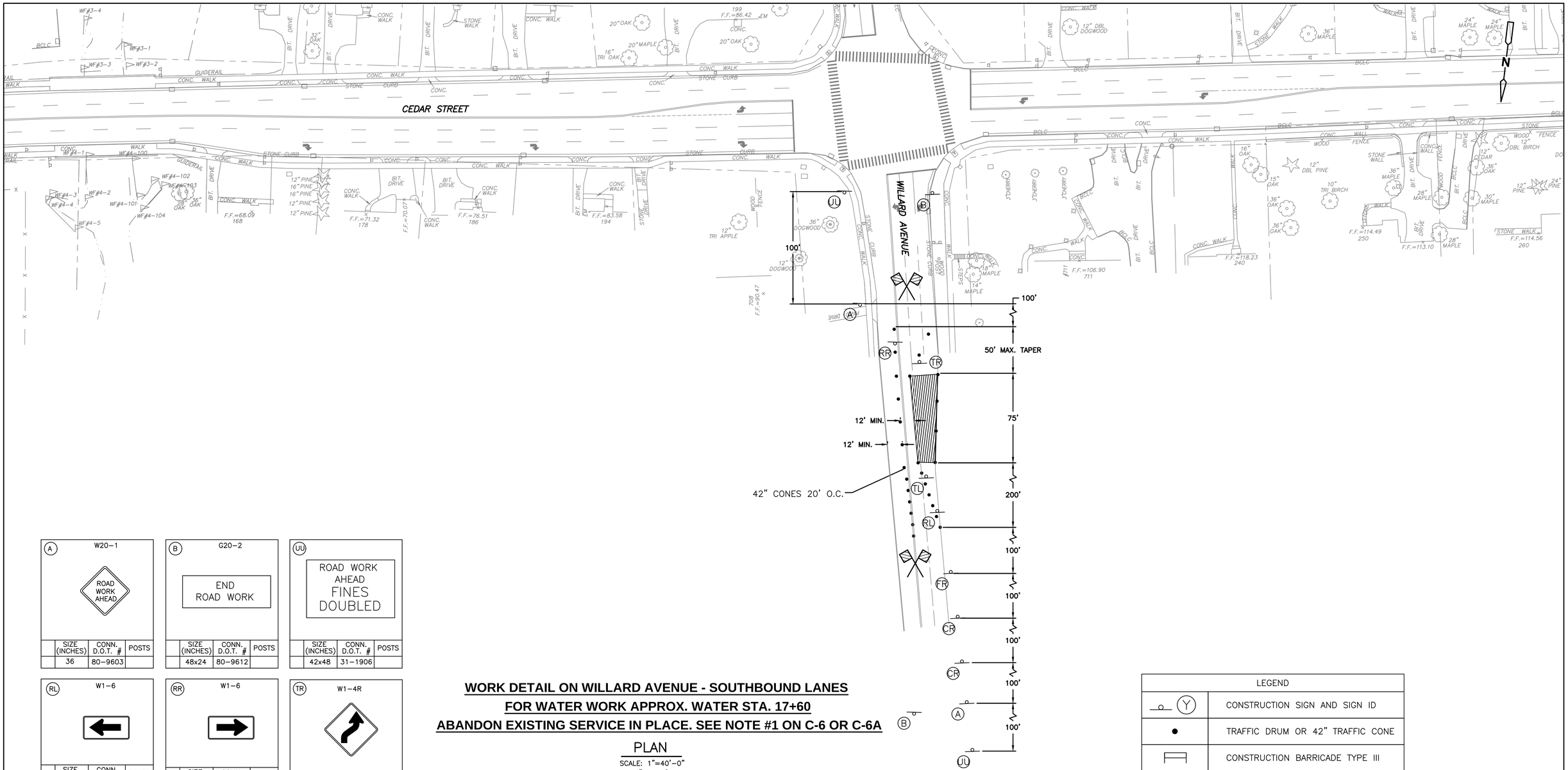

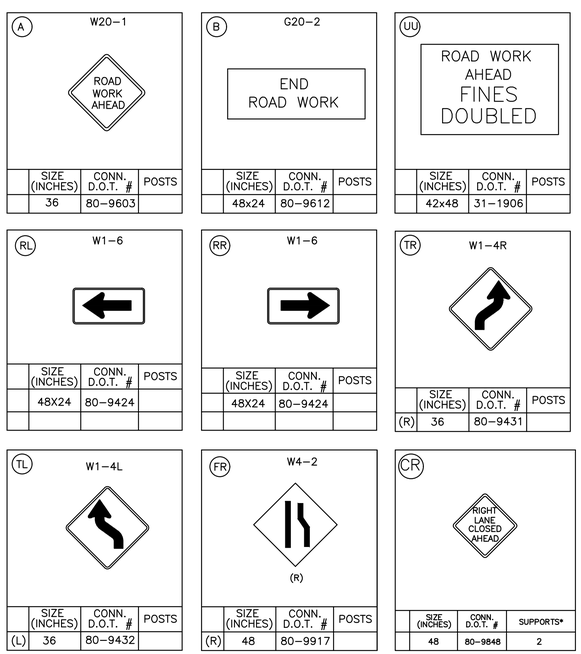

WORK DETAIL ON WILLARD AVENUE - SOUTHBOUND LANES
FOR WATER WORK APPROX. WATER STA. 17+60
ABANDON EXISTING SERVICE IN PLACE. SEE NOTE #1 ON C-6 OR C-6A

PLAN
SCALE: 1"=40'-0"
1" = 40'
20 0 40

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL014
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XIV

PLAN NUMBER
SHEET NO.
T-14

0930-101697

Xref's: [CDM_2436, 31-267 122811 2000, CSTPL001] Images: 0
Last saved by: ENGELSB Time: 8/5/2022 8:25:36 AM
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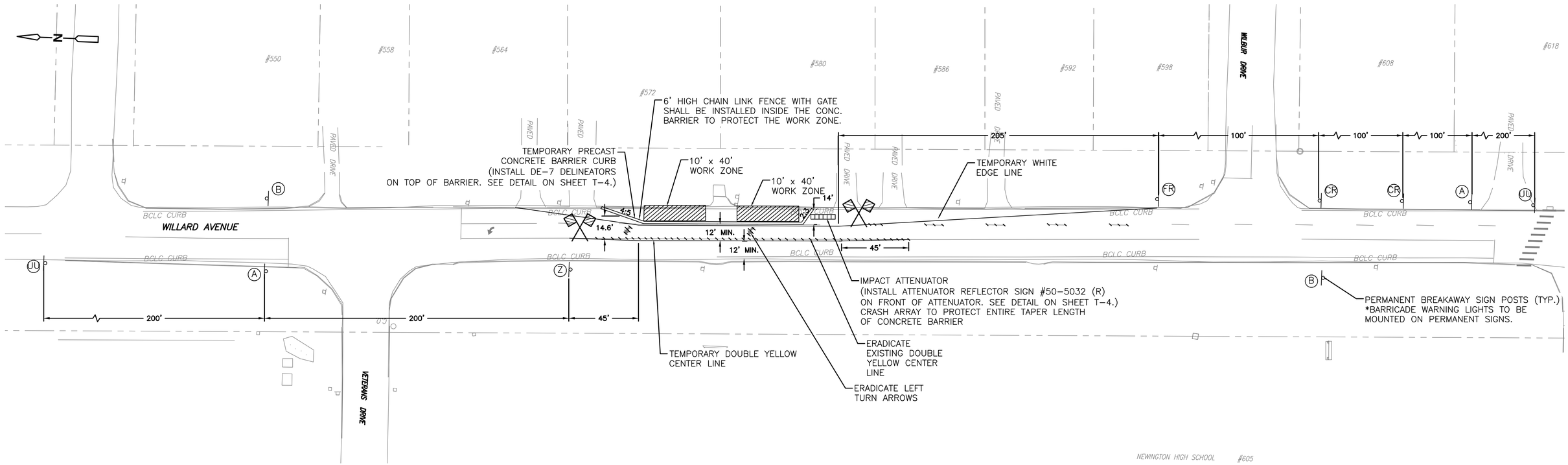


WORK DETAIL ON WILLARD AVENUE AT CULVERT CROSSING
PIPE JACKING PERMANENT WORK ZONE (WATER MAIN)

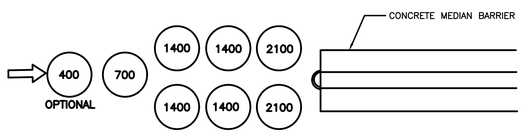
PLAN

SCALE: 1"=30'-0"

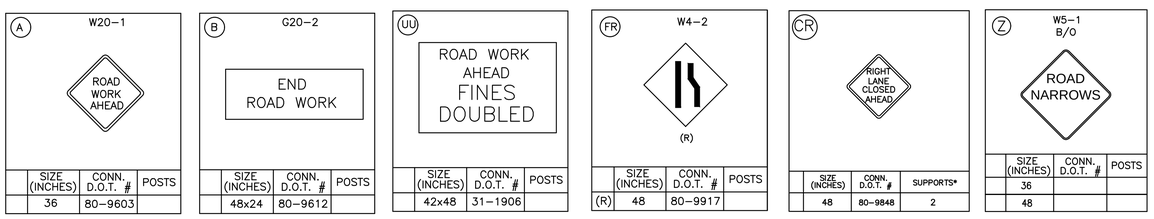
1" = 30'

15 0 30

ALL WORK THIS SHEET TO BE CONSTRUCTED IF WATER ALTERNATE BID IS AWARDED.



TEMPORARY TRAFFIC CONTROL INERTIAL SYSTEM (SAND BARRELS IMPACT VELOCITY ≤ 35 MPH



NOTES:

1. OFFICERS ONLY FOR DAYTIME CONSTRUCTION ACTIVITIES.
2. DO NOT BLOCK DRIVEWAYS WITH CONCRETE BARRIERS.
3. CONTRACTOR REMINDED TO CONTACT CBYD BEFORE PERMANENT SIGN POST INSTALLATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID MOUNTED ON PERMANENT BREAKAWAY SIGN POSTS
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL015
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH LALIBERTE 28046 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XV

PLAN NUMBER

SHEET NO.

T-15

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: []
Last saved by: ENGELSB Time: 8/5/2022 9:55:50 AM
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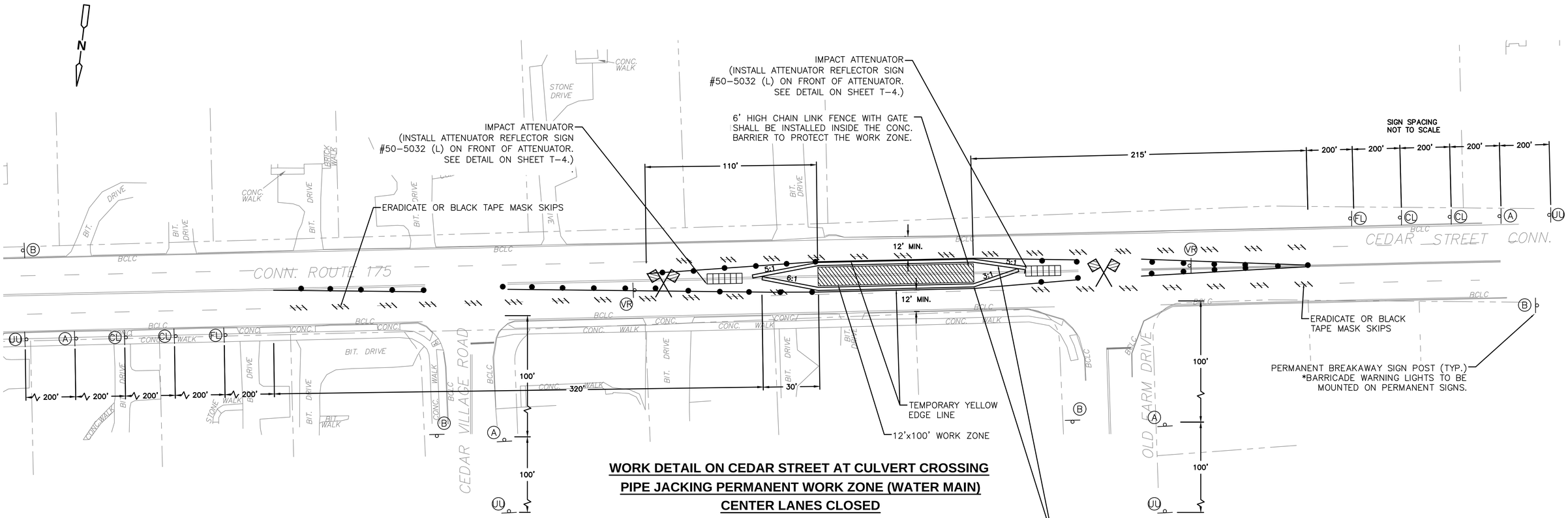


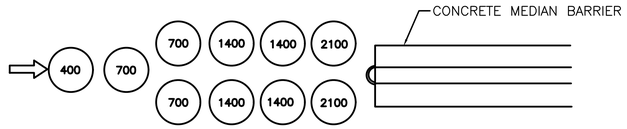
WORK DETAIL ON CEDAR STREET AT CULVERT CROSSING
PIPE JACKING PERMANENT WORK ZONE (WATER MAIN)
CENTER LANES CLOSED

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30



TEMPORARY TRAFFIC CONTROL
INERTIAL SYSTEM (SAND BARRELS
IMPACT VELOCITY ≤ 45 MPH

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID MOUNTED ON PERMANENT BREAKAWAY SIGN POSTS
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

(A) W20-1

ROAD WORK AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

END ROAD WORK

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(CL)

LEFT LANE CLOSED AHEAD

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(FL) W4-2

(L)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L) 48	80-9918	

(UU)

ROAD WORK AHEAD
FINES DOUBLED

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(VR) R4-7 B/W

SIZE (INCHES)	CONN. D.O.T. #	POSTS
24x30	31-1526	

NOTES:

1. OFFICERS ONLY IN PLACE FOR DAYTIME CONSTRUCTION ACTIVITIES.
2. REFERENCE CTDOT CONSTRUCTION TRAFFIC CONTROL PLAN #11.
3. CONTRACTOR REMINDED TO CONTACT CBYD BEFORE PERMANENT SIGN POST INSTALLATION.

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL016
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH A. LALIBERTE 28049 LICENSED PROFESSIONAL ENGINEER

CDM Smith
111 Founders Plaza, Suite 1600
East Hartford, CT 06108
Tel: (860) 529-7615

CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XVI

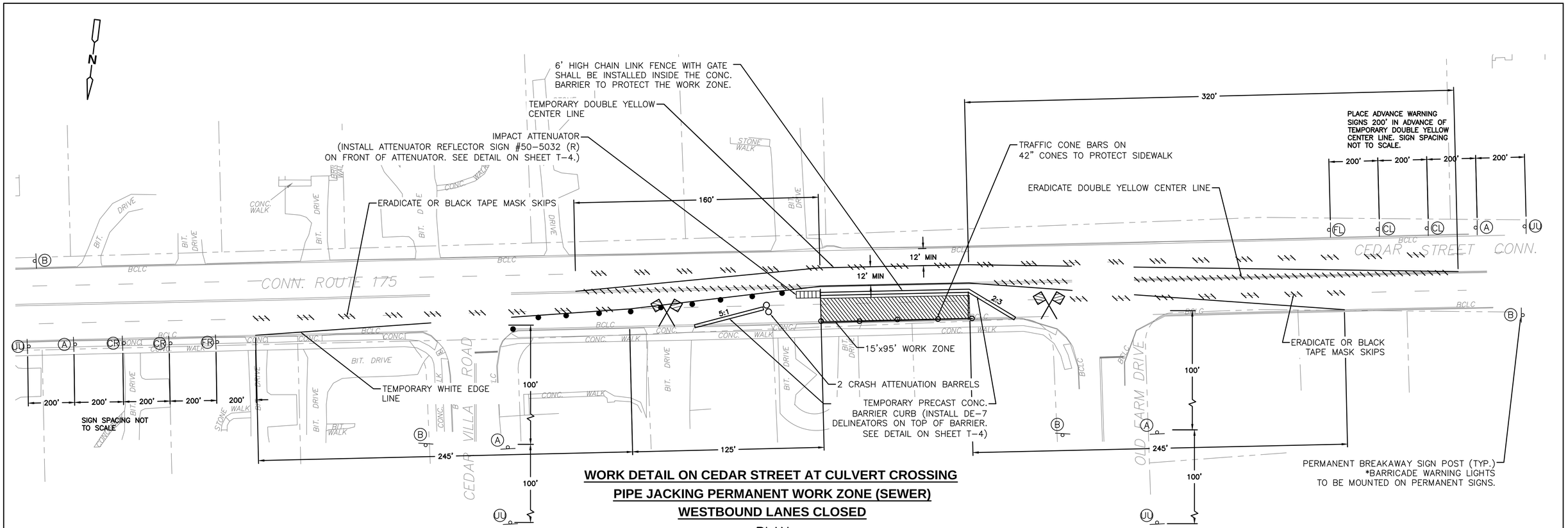
PLAN NUMBER

SHEET NO.

T-16

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: []
Last saved by: ENGELSB Time: 8/5/2022 9:59:23 AM
PLEASE UPDATE THE PROJECTWISE PATH (SELECT ATTRIBUTES IN PROJECTWISE AND CLICK CHECK BOX)



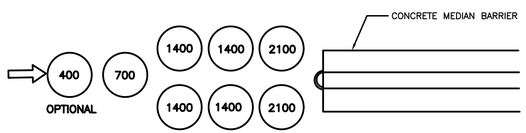
WORK DETAIL ON CEDAR STREET AT CULVERT CROSSING
PIPE JACKING PERMANENT WORK ZONE (SEWER)
WESTBOUND LANES CLOSED

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30



TEMPORARY TRAFFIC CONTROL INERTIAL SYSTEM (SAND BARRELS IMPACT VELOCITY ≤ 35 MPH

NOTES:

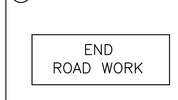
1. OFFICERS ONLY IN PLACE FOR DAYTIME CONSTRUCTION ACTIVITIES.
2. REFERENCE CTDOT CONSTRUCTION TRAFFIC CONTROL PLAN #12.
3. CONTRACTOR REMINDED TO CONTACT CBYD BEFORE PERMANENT SIGN POST INSTALLATION.

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID MOUNTED ON PERMANENT BREAKAWAY SIGN POSTS
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2



SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(UU)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(FR) W4-2

(R)

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R)	48	80-9917	2

(FL) W4-2

(L)

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	48	80-9918	

(CL)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(CR)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	2

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL017
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

STATE OF CONNECTICUT JOSEPH L. LALIBERTE 28016 LICENSED PROFESSIONAL ENGINEER

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111 Founders Plaza, Suite 1600
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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XVII

PLAN NUMBER

SHEET NO.

T-17

0930-101697

Xref's: [CDM_2436, CSTPL001, 31-267 122811 2000] Images: 0
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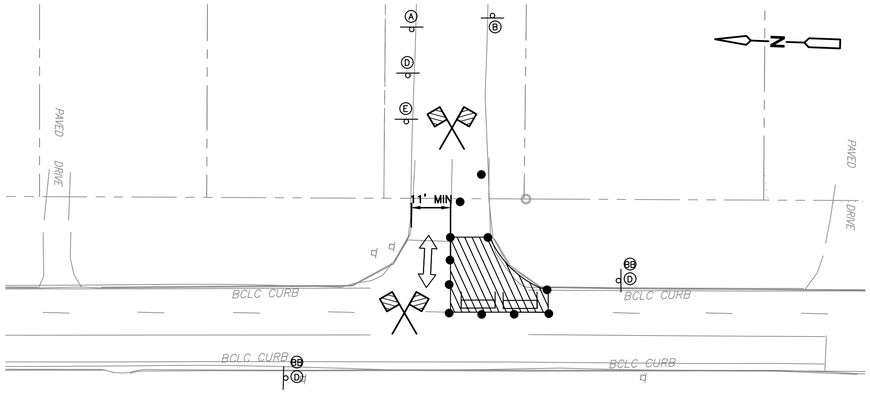


TYPICAL FOR WORK AT SIDE STREETS

PLAN

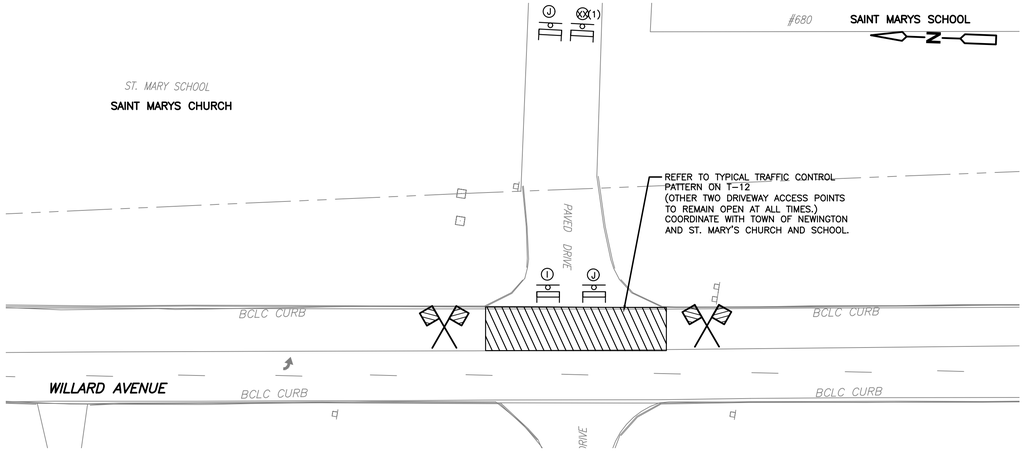
SCALE: 1"=30'-0"

1" = 30'

15 0 30

NOTES:

1. TO BE USED WITH TRAFFIC CONTROL PATTERNS ON T-9 OR T-10 (CEDAR VILLAGE ROAD) AND T-11 (WILBUR DRIVE).



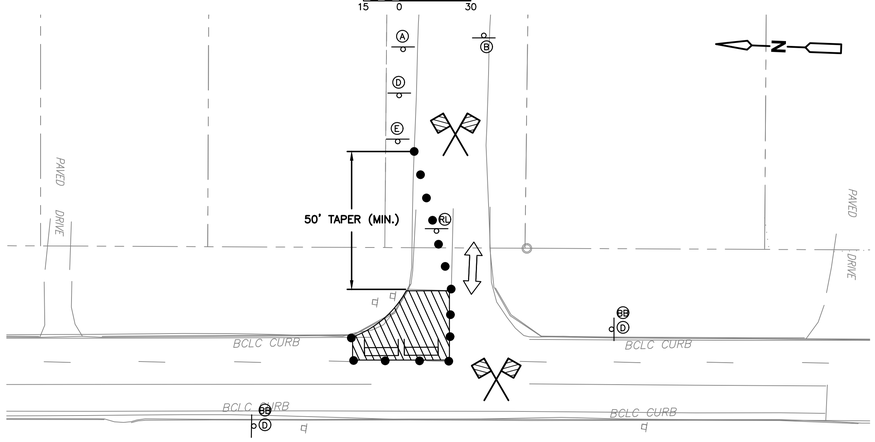
TYPICAL FOR WORK AT SAINT MARYS CHURCH AND SAINT MARYS SCHOOL DRIVEWAYS

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30



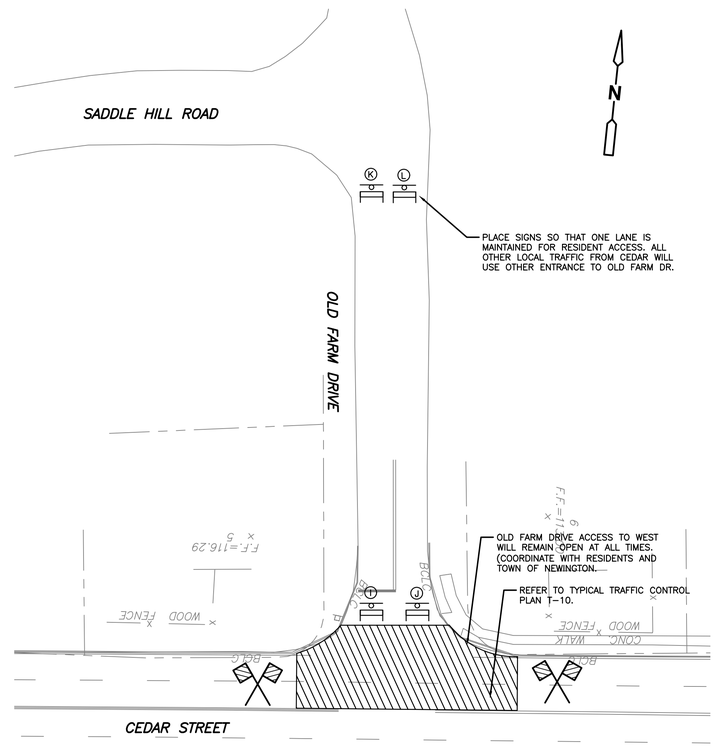
TYPICAL FOR WORK AT SIDE STREETS

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30



TYPICAL FOR WORK AT OLD FARM DRIVE

SCALE: 1"=30'-0"

1" = 30'

15 0 30

BB 1-A

WILBUR DRIVE		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	2

BB 1-B

CEDAR VILLAGE		
SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x10	80-9913	2

A W20-1

ROAD WORK AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

B G20-2

END ROAD WORK

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

J W20-3

DO NOT ENTER

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36		

L

LOCAL TRAFFIC ONLY

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x30		

XX (1)

DRIVEWAY CLOSED
USE ALTERNATE
ACCESS

SIZE (INCHES)	CONN. D.O.T. #	POSTS
-x-	80-9913	

K

ROAD CLOSED TO THRU TRAFFIC

SIZE (INCHES)	CONN. D.O.T. #	POSTS
60x30	80-9081	

D W20-4

ONE LANE ROAD AHEAD

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48	80-9835	

E W20-7a

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9803	
48	80-9804	

RL W1-6

SIZE (INCHES)	CONN. D.O.T. #	POSTS
48X24	80-9424	

I R11-2

ROAD CLOSED

SIZE (INCHES)	CONN. D.O.T. #	POSTS	
48x30	80-9080		BARRICADE

LEGEND

Y	CONSTRUCTION SIGN AND SIGN ID
	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER WITH CRUISER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL018
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XVIII

PLAN NUMBER

SHEET NO.

T-18

0930-101697

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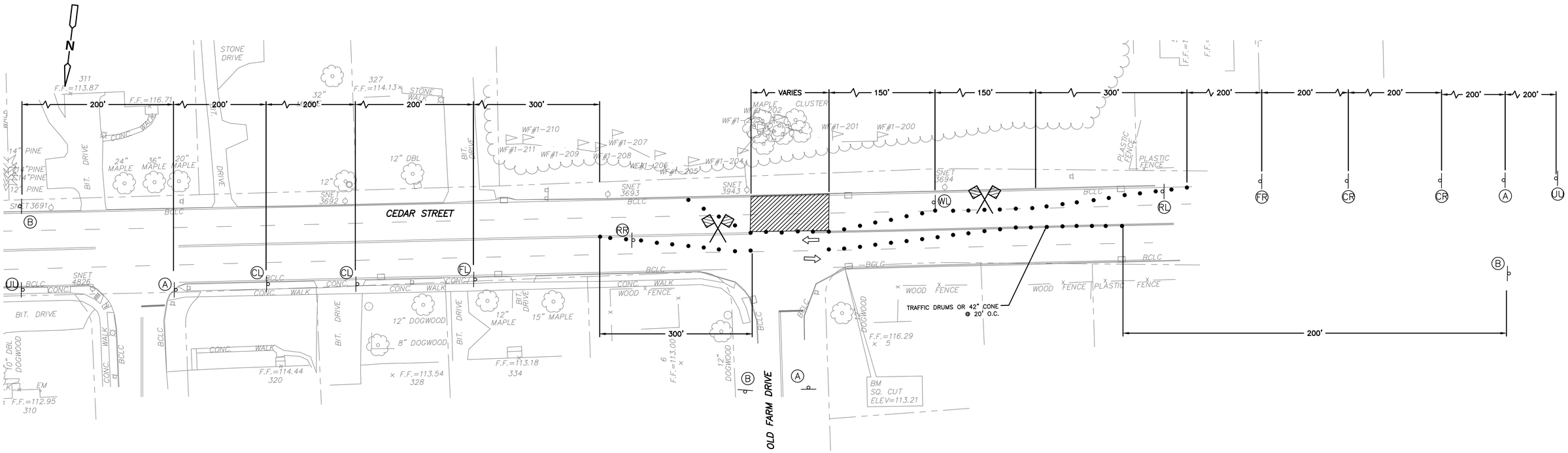


WORK DETAIL ON CT ROUTE 175 (CEDAR STREET) - EASTBOUND LANES BETWEEN CT ROUTE 173 (WILLARD AVENUE) AND OLD FARM DRIVE FOR MILL/OVERLAY OPERATION

PLAN

SCALE: 1"=30'-0"

1" = 30'

15 0 30

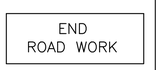
NOTES:

1. REFERENCE CTDOT CONSTRUCTION TRAFFIC CONTROL PLAN #12.
2. MILLING/OVERLAY OPERATIONS IN WESTBOUND/MIDDLE LANES REFERENCE SHEET T-10

(A) W20-1

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36	80-9603	

(B) G20-2

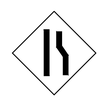


SIZE (INCHES)	CONN. D.O.T. #	POSTS
48x24	80-9612	

(UU)

SIZE (INCHES)	CONN. D.O.T. #	POSTS
42x48	31-1906	

(FR) W4-2



	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(R)	48	80-9917	

(WL) W24-1

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	36	80-9056	
(R)	36	80-9056	

(FL) W4-2

	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	48	80-9918	

(CL)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9847	2

(CR)

SIZE (INCHES)	CONN. D.O.T. #	SUPPORTS*
48	80-9848	2

(RR) W1-6 B/O

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36x18	80-9422	

(RL) W1-6 B/O

SIZE (INCHES)	CONN. D.O.T. #	POSTS
36x18	80-9422	

LEGEND	
(Y)	CONSTRUCTION SIGN AND SIGN ID
●	TRAFFIC DRUM OR 42" TRAFFIC CONE
	CONSTRUCTION BARRICADE TYPE III
	TRAFFIC CONE BAR
	TEMPORARY CONCRETE BARRIER
	WORK ZONE
	IMPACT ATTENUATOR
	TRAFFIC FLOW LANE
	UNIFORMED POLICE OFFICER OR FLAGGER IF APPROVED

MDC

The Metropolitan District
555 Main Street
Hartford, Connecticut

REV. NO.	DATE	DRWN	CHKD	REMARKS

FILE NAME: TSTPL019
DESIGNED BY: A. FELDMAN
DRAWN BY: L. KERSHAW
CHK'D BY: C. MUCCI
X-CHK'D BY: A. FELDMAN
APPROVED BY: J. LALIBERTE
DATE: FEBRUARY 2018

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CONTRACT No. 2011-73
SANITARY SEWER IMPROVEMENTS AND
WATER MAIN INSTALLATION CEDAR STREET AREA

TRAFFIC MANAGEMENT PLAN XIX

PLAN NUMBER

SHEET NO.

T-19

0930-101697

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