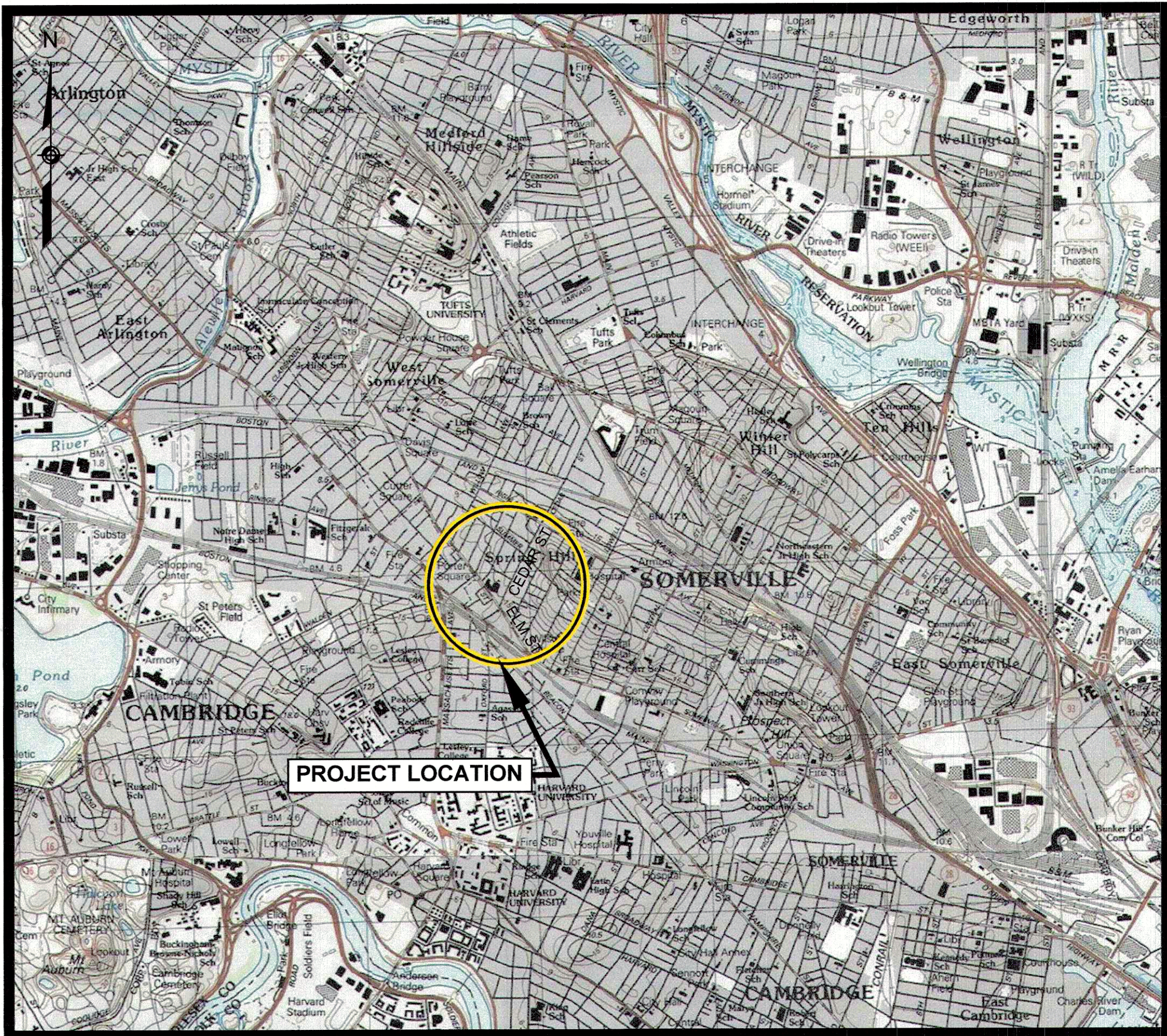


CITY OF SOMERVILLE, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS
1 FRANEY ROAD,
SOMERVILLE, MA 02145

CEDAR STREET
SEWER SEPARATION PROJECT

JOSEPH CURTATONE, MAYOR

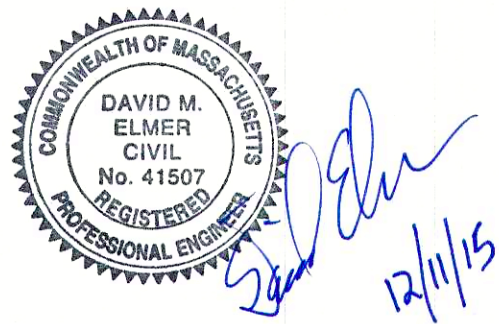


LOCUS MAP
NOT TO SCALE

DRAWING INDEX

SHEET NO.	TITLE
1	COVER SHEET
A-1	ABBREVIATIONS, LEGEND AND GENERAL NOTES
S-1 TO S-3	UTILITY PLAN AND PROFILE - ELM STREET
S-4 TO S-7	UTILITY PLAN AND PROFILE - CEDAR STREET
S-8	UTILITY PLAN AND PROFILE - CEDAR AVENUE & HALL STREET
S-9	UTILITY PLAN - LINDEN AVENUE & PORTER STREET
S-10	UTILITY PLAN - WATER MAIN
C-1 TO C-5	ROADWAY CONSTRUCTION PLAN & PROFILE
D-1 TO D-6	TYPICAL SECTIONS AND DETAILS
G-1 TO G-2	CURB TIE AND GRADING PLAN
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T-3	SIGN SUMMARY
T-4	SIGNAL PLAN
T-5	TRAFFIC SIGNAL SEQUENCE & TIMING
T-6	TRAFFIC MANAGEMENT PLAN
T-7	TRAFFIC MANAGEMENT PLAN - HIGHLAND
T-8	TRAFFIC MANAGEMENT PLAN - DETOUR PLAN

UNLESS OTHERWISE STATED HEREIN, THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, THE JUNE 2014 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.



DECEMBER 2015

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Five Centennial Drive, Peabody, Massachusetts 01960-7985

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE / PROBE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W/ 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY

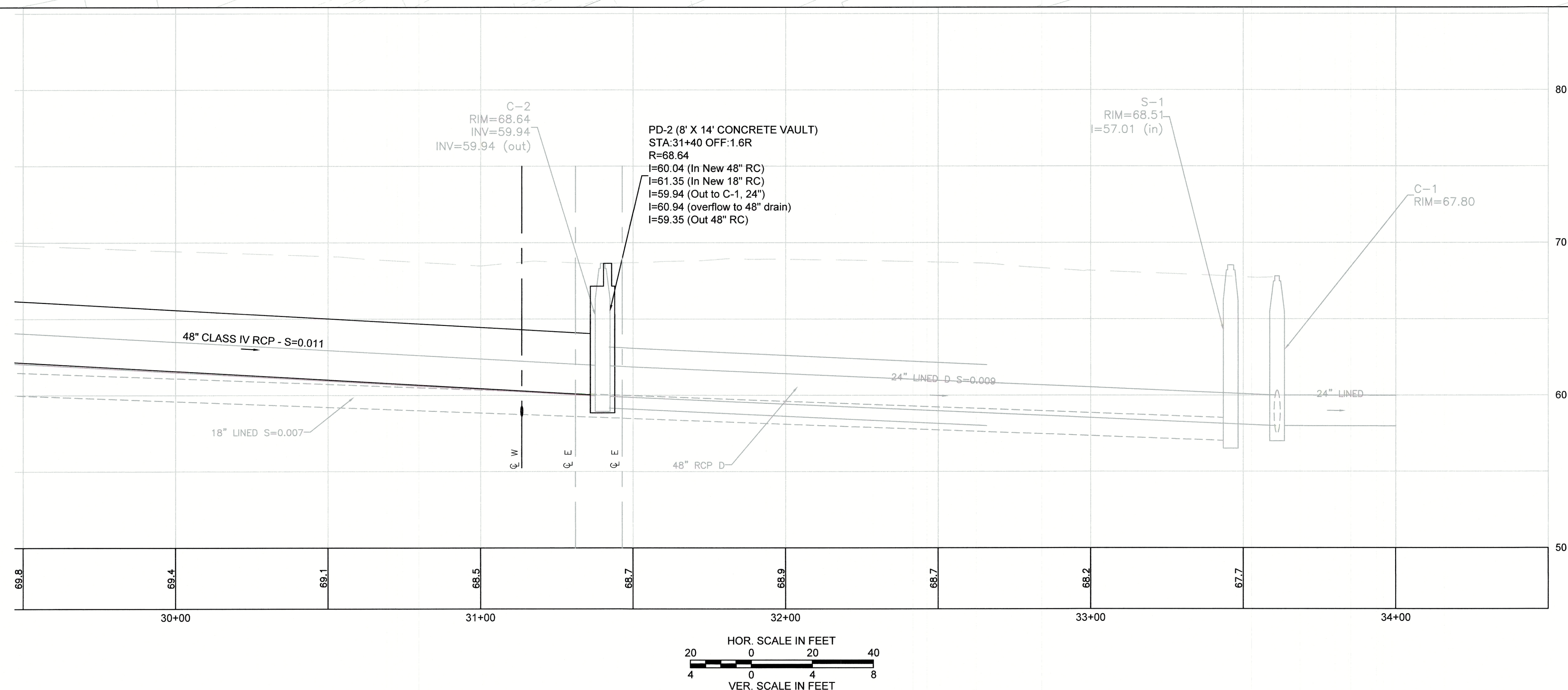
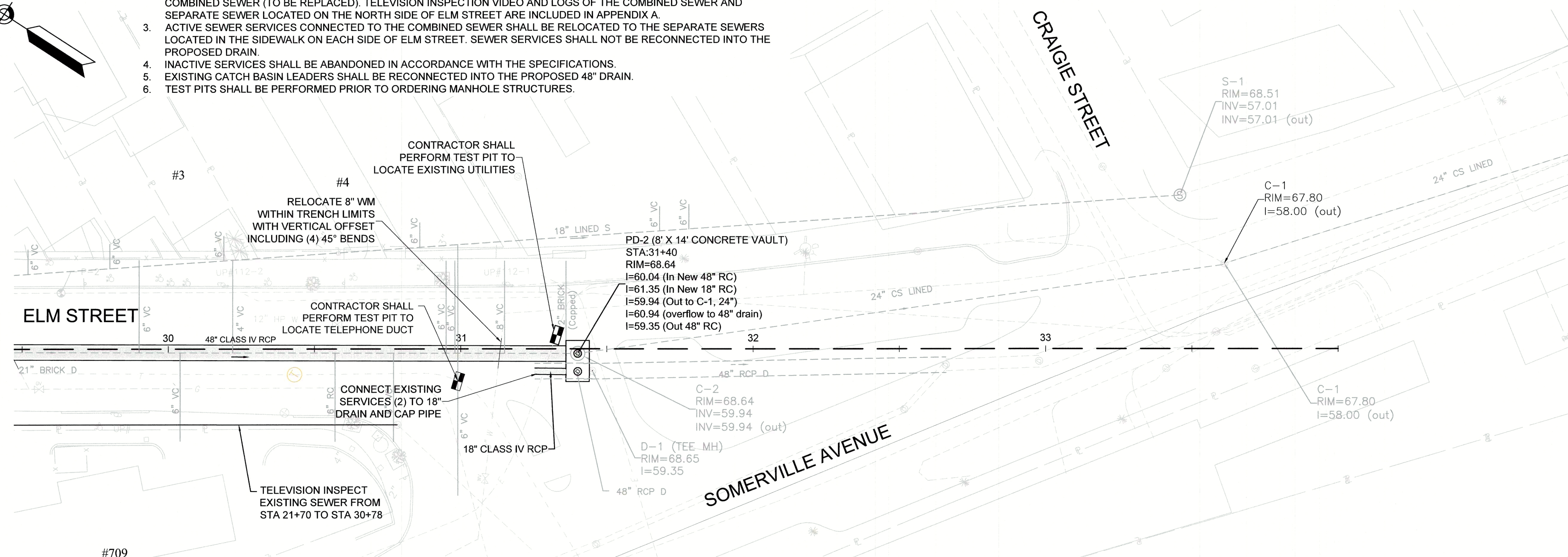
<u>GENERAL</u>	
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

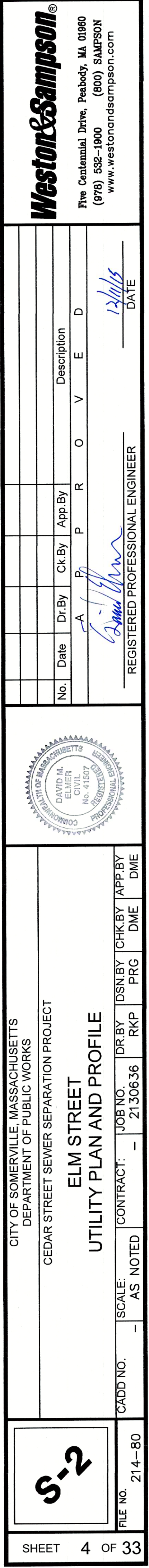
1. THE CONTRACTOR SHALL CALL DIGSAFE AT 811 OR 1-888-344-7233 AT LEAST 48 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. ROAD ROW CORRESPONDS TO EXISTING PROPERTY LINES UNLESS OTHERWISE INDICATED
3. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
4. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO VERIFY EXISTING UTILITY LOCATION, SIZE, AND TYPE.
5. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
6. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, IT SHALL BE REPLACED AND/OR REALIGNED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER. NO FURTHER COMPENSATION WILL BE DUE THE CONTRACTOR FOR THE MATERIALS AND LABOR REQUIRED TO REESTABLISH THE BOUND IN ITS PROPER ORIENTATION. ALL BOUNDS, INCLUDING NEW BOUNDS AS SHOWN ON THE PLANS, AND BOUNDS REPLACED OR REALIGNED SHALL BE INSTALLED BY A LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
7. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
8. ROCK EXCAVATION QUANTITIES ARE ESTIMATED ASSUMING TOP OF LEDGE BEGINS AT BORING REFUSAL. BORING LOCATIONS ARE INDICATED ON THE PLANS AND BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS.
9. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL EXCAVATIONS ON ELM STREET SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES. ALL EXCAVATIONS IN CEDAR STREET WORK ZONES MUST BE CLOSED AT THE END OF EACH WORKDAY BY COVERING WITH PLATES. CONTRACTOR MUST MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
11. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
12. MASSDOT STANDARDS APPLY TO ALL ASPECTS OF THE PROJECT, UNLESS SPECIFIED OTHERWISE.
13. APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR FORCE MAINS OR WATER MAINS, WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS, AND TIE RODS MAY BE USED FOR 6-INCH AND 8-INCH PIPE WHERE JOINT RESTRAINT IS NOT FEASIBLE. FOR THRUST BLOCK DETAILS AND MINIMUM BLOCK BEARING AREAS, SEE DETAILS AND SPECIFICATIONS.
14. EXISTING UTILITY AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM AS-BUILT PLANS AND THE TOPOGRAPHIC SURVEY PREPARED BY WESTON & SAMPSON.
15. INSTALLATION OF OVERHEAD ELECTRIC SERVICE TO BE PROVIDED BY OTHERS.
16. CONTRACTOR SHALL BE AWARE THAT THE EXISTING STORM DRAIN AND SANITARY SEWER SYSTEMS ARE COMBINED SYSTEMS AND RAPID INCREASES IN FLOW WILL OCCUR DURING AND AFTER A WET WEATHER EVENT. THE 10-YEAR STORM EVENT PRODUCES FLOW RATES UP TO 125 CFS ON CEDAR STREET AND 174 CFS ON ELM STREET. THE EXISTING DRAIN AND SEWER SYSTEMS SHALL BE RECONNECTED TO THE PROPOSED DRAIN AND SEWER SYSTEM AT THE END OF EACH WORKDAY AND AS REQUIRED TO EFFECTIVELY HANDLE WET WEATHER FLOWS.
17. CONTRACTOR SHALL MAINTAIN EXISTING FLOWS IN THE SYSTEM, BYPASSING AS NECESSARY TO PREVENT SURCHARGING, AS DETERMINED BY THE ENGINEER.
18. MANHOLE COVERS SHALL BE SET FLUSH WITH THE EXISTING GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS DETERMINED BY THE ENGINEER.
19. CONTRACTOR SHALL NOT ALLOW SAND, SILT OR OTHER SITE RUNOFF TO ENTER CATCH BASINS.
20. WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS HAVE NOT BEEN INCLUDED ON THE PLAN VIEWS OR PROFILE VIEWS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS AS NECESSARY TO PERFORM THE WORK.
21. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.
22. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL PIPE AND MANHOLES AS SHOWN ON THE DRAWINGS.
23. CONTRACTOR SHALL REMOVE AND RESET ALL EXISTING VERTICAL GRANITE CURBING AS INDICATED ON PLANS. ADDITIONAL VERTICAL GRANITE CURBING SHALL SUPPLEMENT ALL BROKEN OR UNUSABLE PIECES.
24. WHERE PROPOSED PAVEMENT SURFACE MEETS EXISTING PAVEMENT SURFACE, CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AND SPRAY WITH RS-1 SOLUTION PRIOR TO ADDING NEW PAVEMENT.
25. STREET FLOODING OCCURS ON CEDAR STREET AT HALL STREET DURING WET WEATHER EVENTS.
26. EXISTING SUBSURFACE CONDITIONS ARE DESCRIBED IN THE GEOTECHNICAL INVESTIGATIONS AND RECOMMENDATIONS REPORT INCLUDED IN APPENDIX B.
27. FOLLOWING THE COMPLETION OF THE PROJECT, ALL NEW CATCH BASINS SHALL BE VACUUM CLEANED AND ALL NEW SEWER AND DRAIN PIPES SHALL BE CLEANED AND TELEVISION INSPECTED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID WHITE EDGE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOUBLE YELLOW CENTERLINE
		WIRE LOOP DETECTOR (6' X 6' TYP UNLESS OTHERWISE SPECIFIED)
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		SIGNAL POST AND BASE (ALPHA NUMERIC DESIGNATION NOTED)

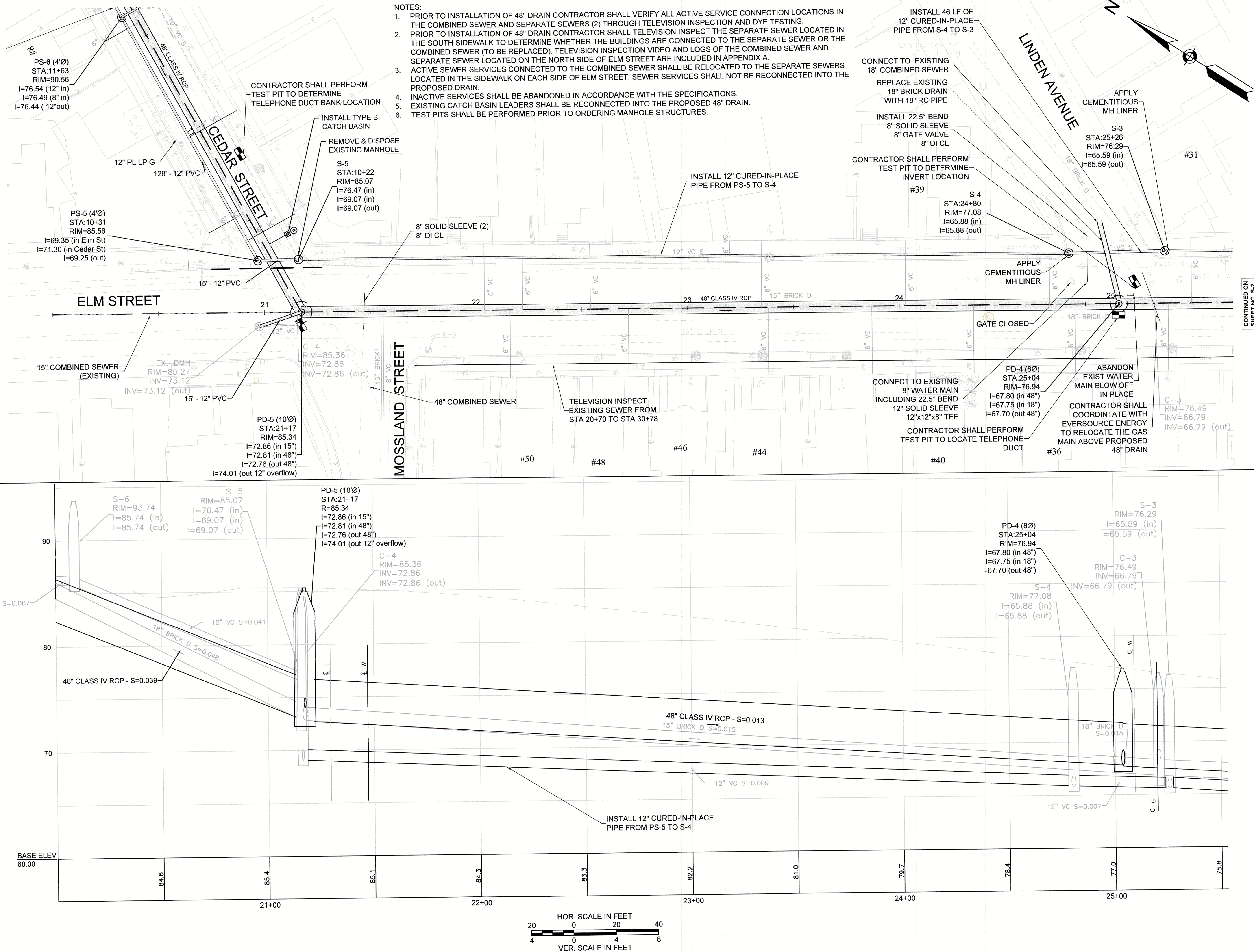


- NOTES:
1. PRIOR TO INSTALLATION OF 48" DRAIN CONTRACTOR SHALL VERIFY ALL ACTIVE SERVICE CONNECTION LOCATIONS IN THE COMBINED SEWER AND SEPARATE SEWERS (2) THROUGH TELEVISION INSPECTION AND DYE TESTING.
 2. PRIOR TO INSTALLATION OF 48" DRAIN CONTRACTOR SHALL TELEVISION INSPECT THE SEPARATE SEWER LOCATED IN THE SOUTH SIDEWALK TO DETERMINE WHETHER THE BUILDINGS ARE CONNECTED TO THE SEPARATE SEWER OR THE COMBINED SEWER (TO BE REPLACED). TELEVISION INSPECTION VIDEO AND LOGS OF THE COMBINED SEWER AND SEPARATE SEWER LOCATED ON THE NORTH SIDE OF ELM STREET ARE INCLUDED IN APPENDIX A.
 3. ACTIVE SEWER SERVICES CONNECTED TO THE COMBINED SEWER SHALL BE RELOCATED TO THE SEPARATE SEWERS LOCATED IN THE SIDEWALK ON EACH SIDE OF ELM STREET. SEWER SERVICES SHALL NOT BE RECONNECTED TO THE PROPOSED DRAIN.
 4. INACTIVE SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. EXISTING CATCH BASIN LEADERS SHALL BE RECONNECTED TO THE PROPOSED 48" DRAIN.
 6. TEST PITS SHALL BE PERFORMED PRIOR TO ORDERING MANHOLE STRUCTURES.





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DATE: 12/14/15

REGISTERED PROFESSIONAL ENGINEER

CITY OF SOMERVILLE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
CEDAR STREET SEWER SEPARATION PROJECT

ELM STREET
UTILITY PLAN AND PROFILE

CADD NO. 214-79

FILE NO. 214-79

SCALE: AS NOTED

CONTRACT: 2130636

DR BY: RKP

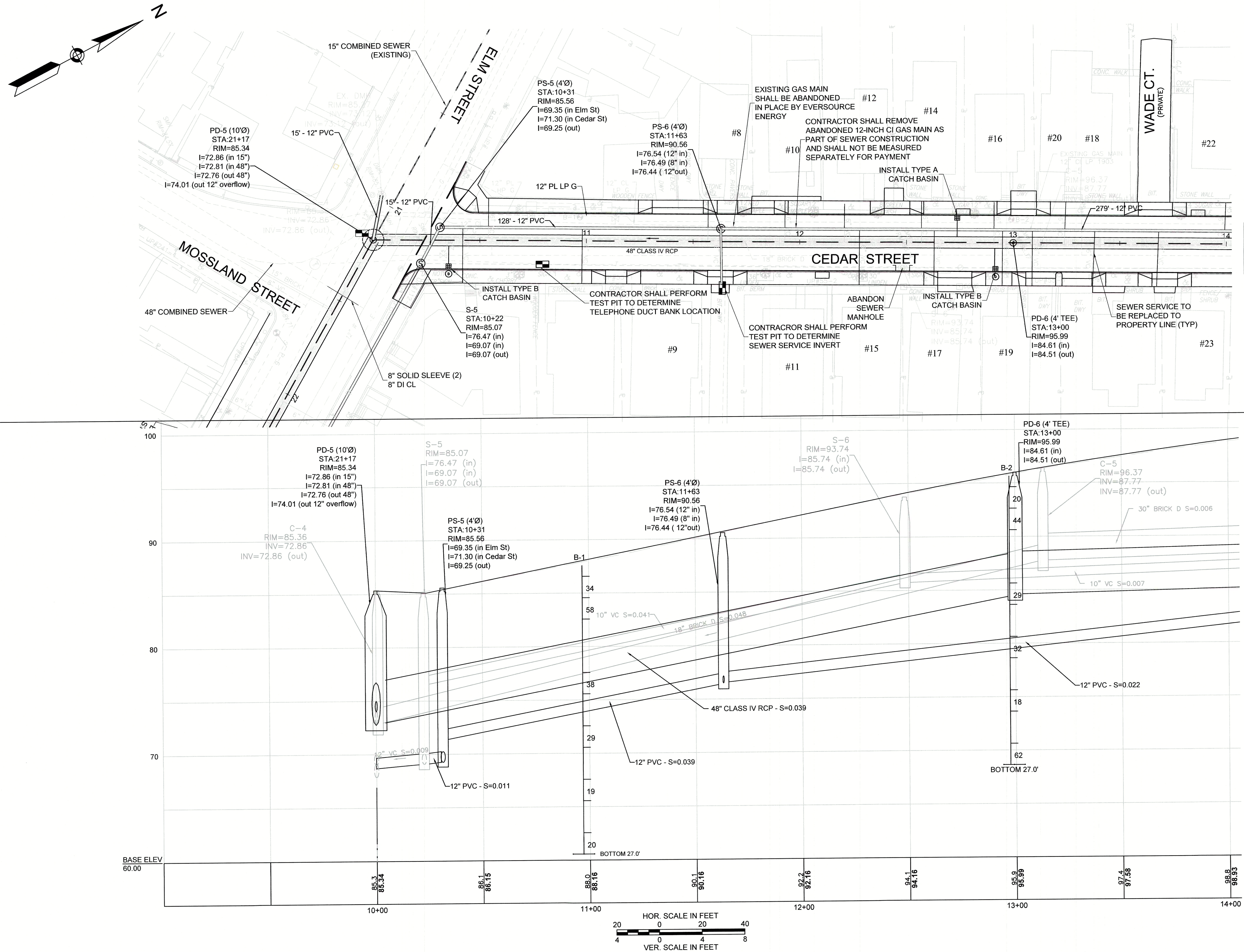
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APP BY: DME

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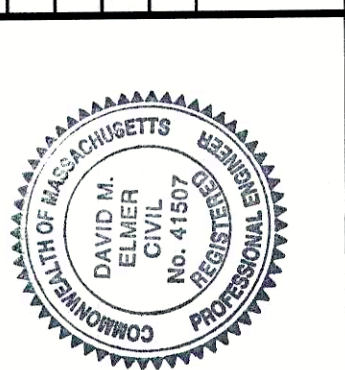
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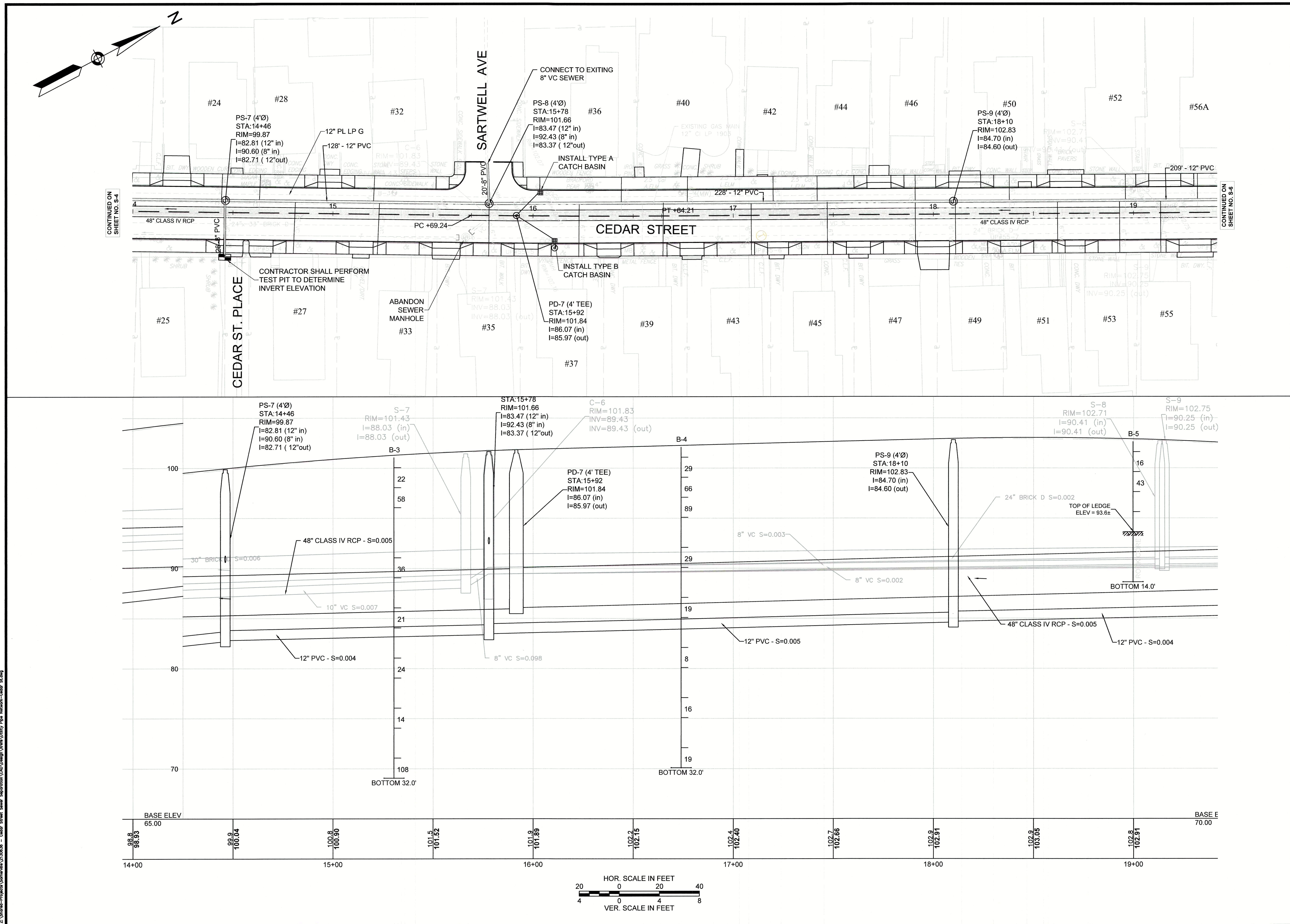
CONTINUED ON
SHEET NO. S-5

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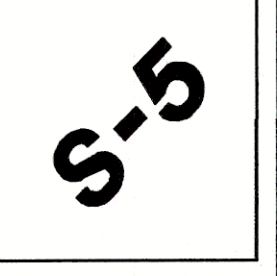
No.	Date	Dr. By	Chk. By	App. By	Description
1	12/11/15	AS	AS	AS	REGISTERED PROFESSIONAL ENGINEER



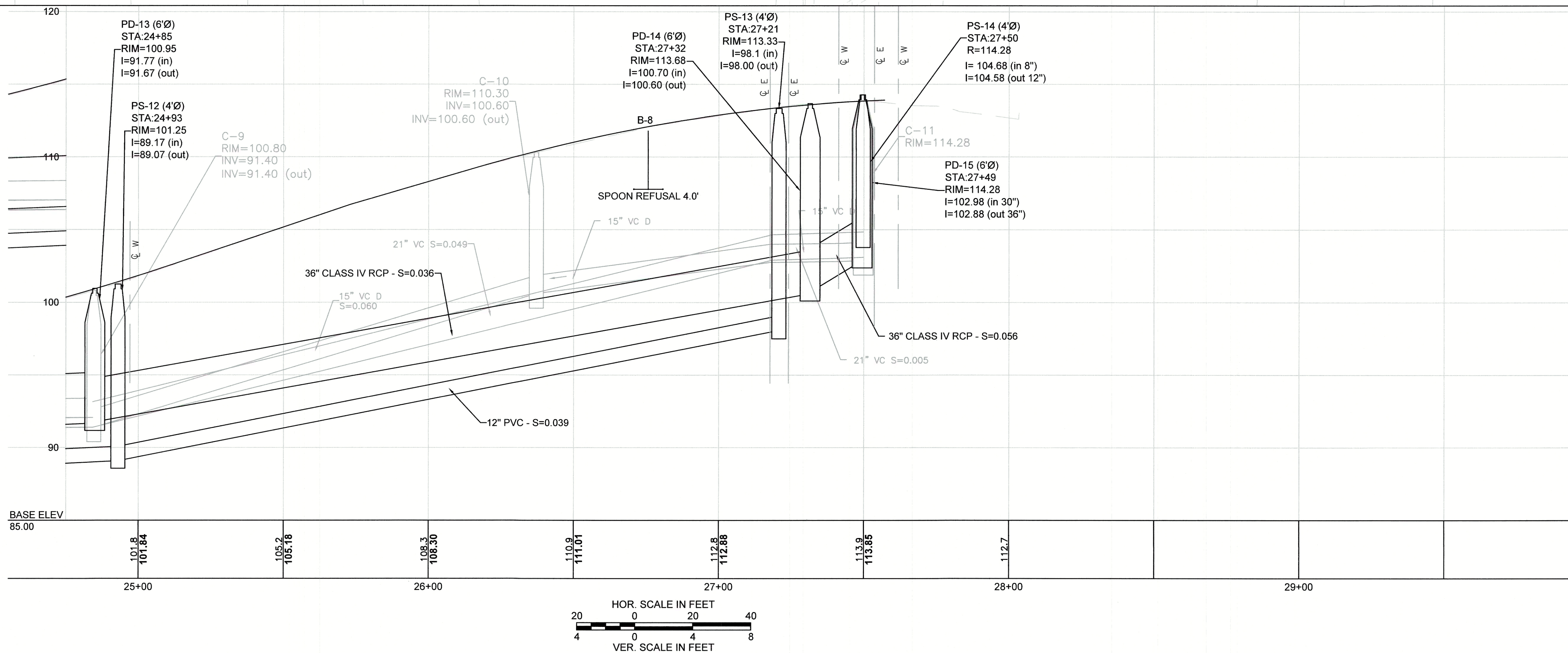
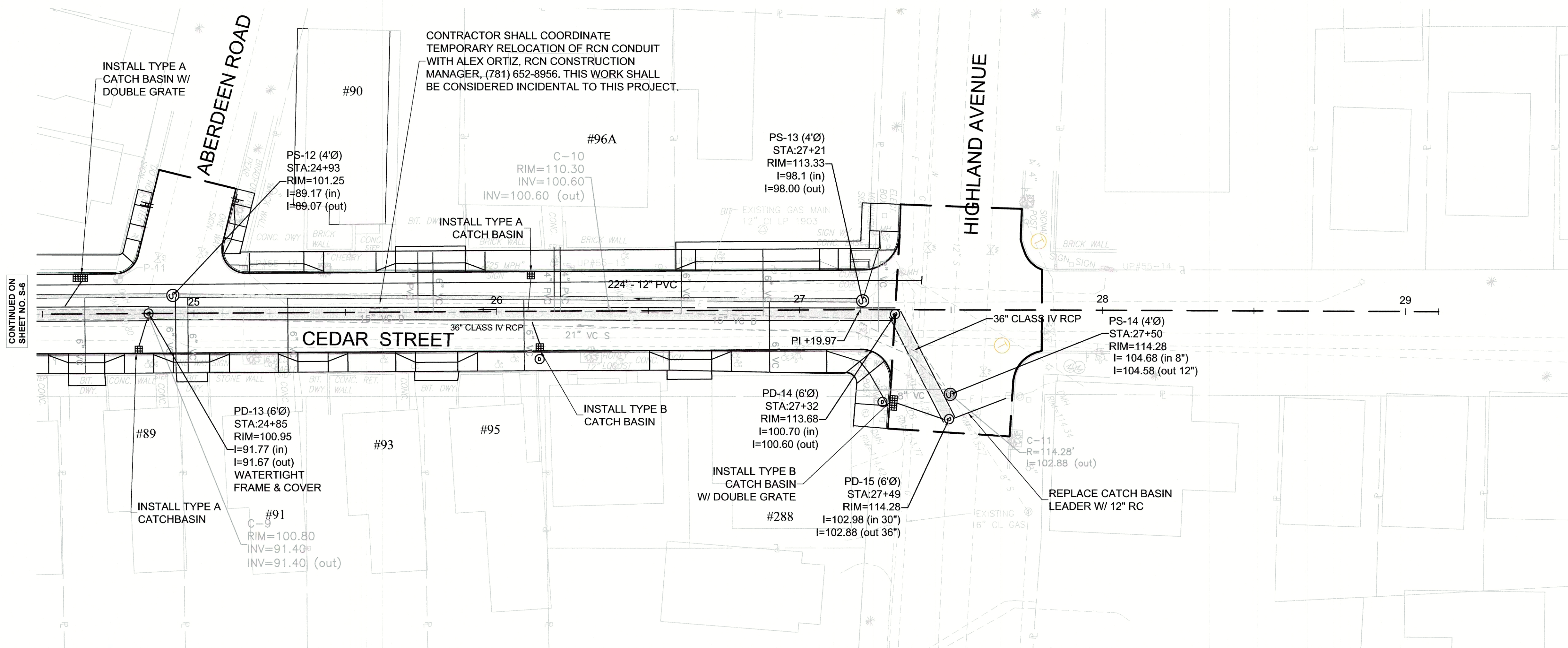
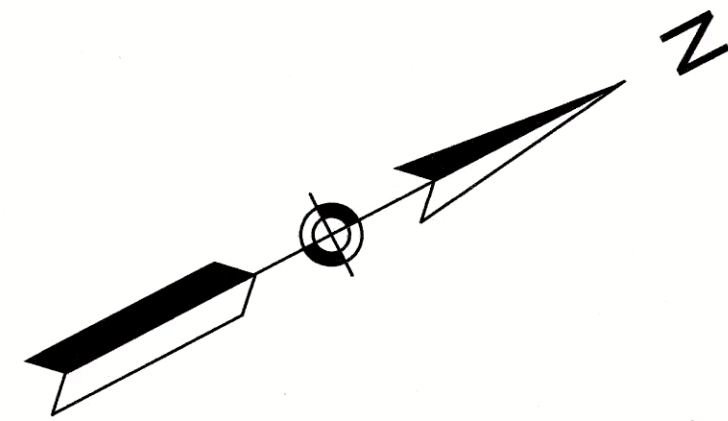
CITY OF SOMERVILLE, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS CEDAR STREET SEWER SEPARATION PROJECT	CONTRACT NO. 2130636	SCALE: AS NOTED	FILE NO. 214-78
CEDAR STREET UTILITY PLAN AND PROFILE	JOB NO. 2130636	DR. BY: RKP	CHK. BY: DME
SHEET 6 OF 33		DATE 12/11/15	

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CADD NO.	SCALE:	AS NOTED	CONTRACT:	JOB NO.	DR BY	DSN BY	CHK BY	APP BY
—			—	21,30636	RKP	PRG	DME	DME



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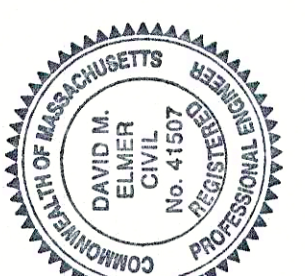


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No.	Date	Dr. By	Chk. By	App. By	Description
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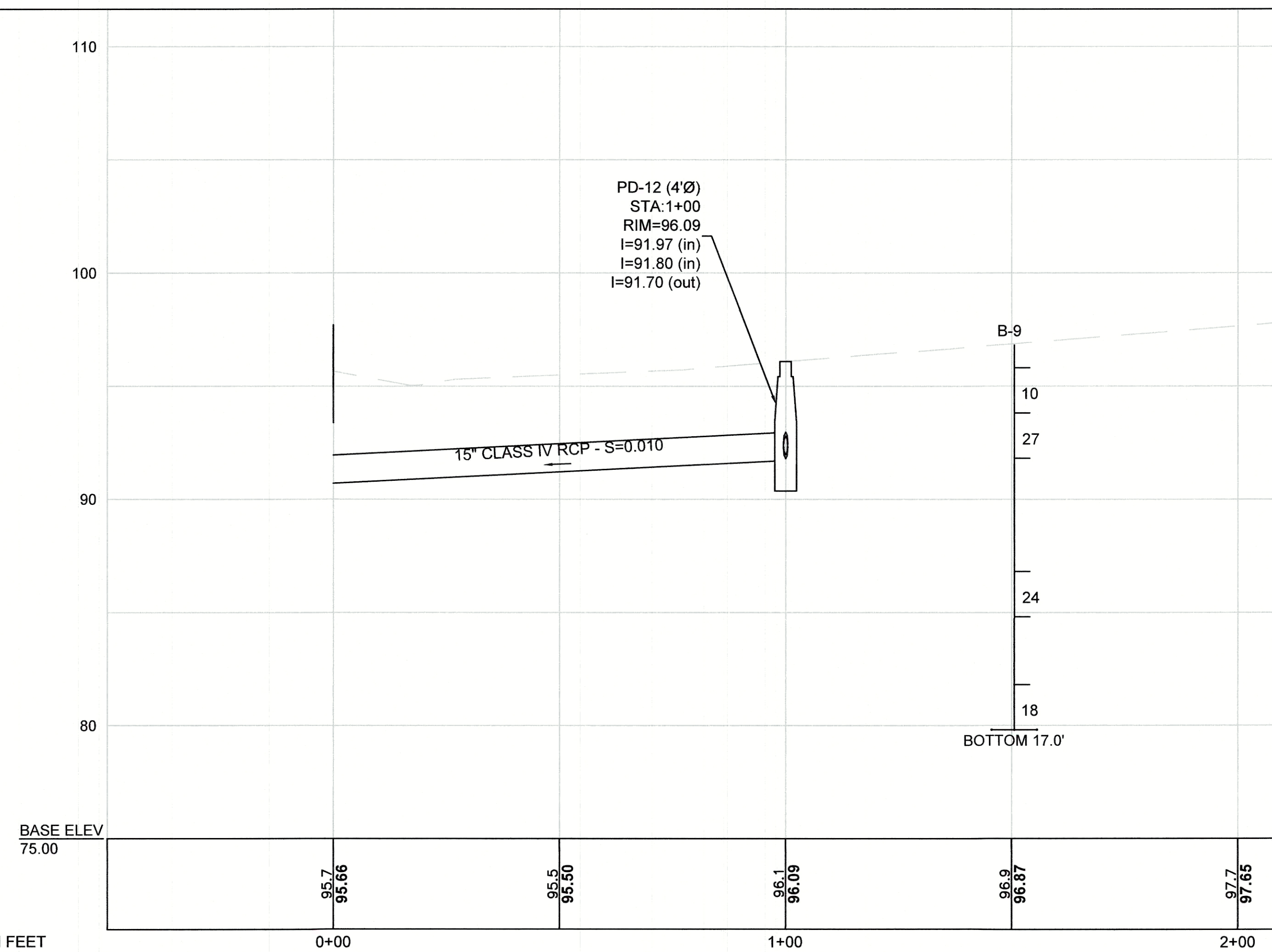
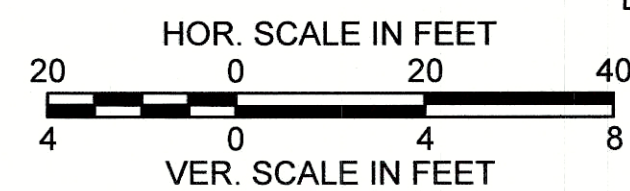
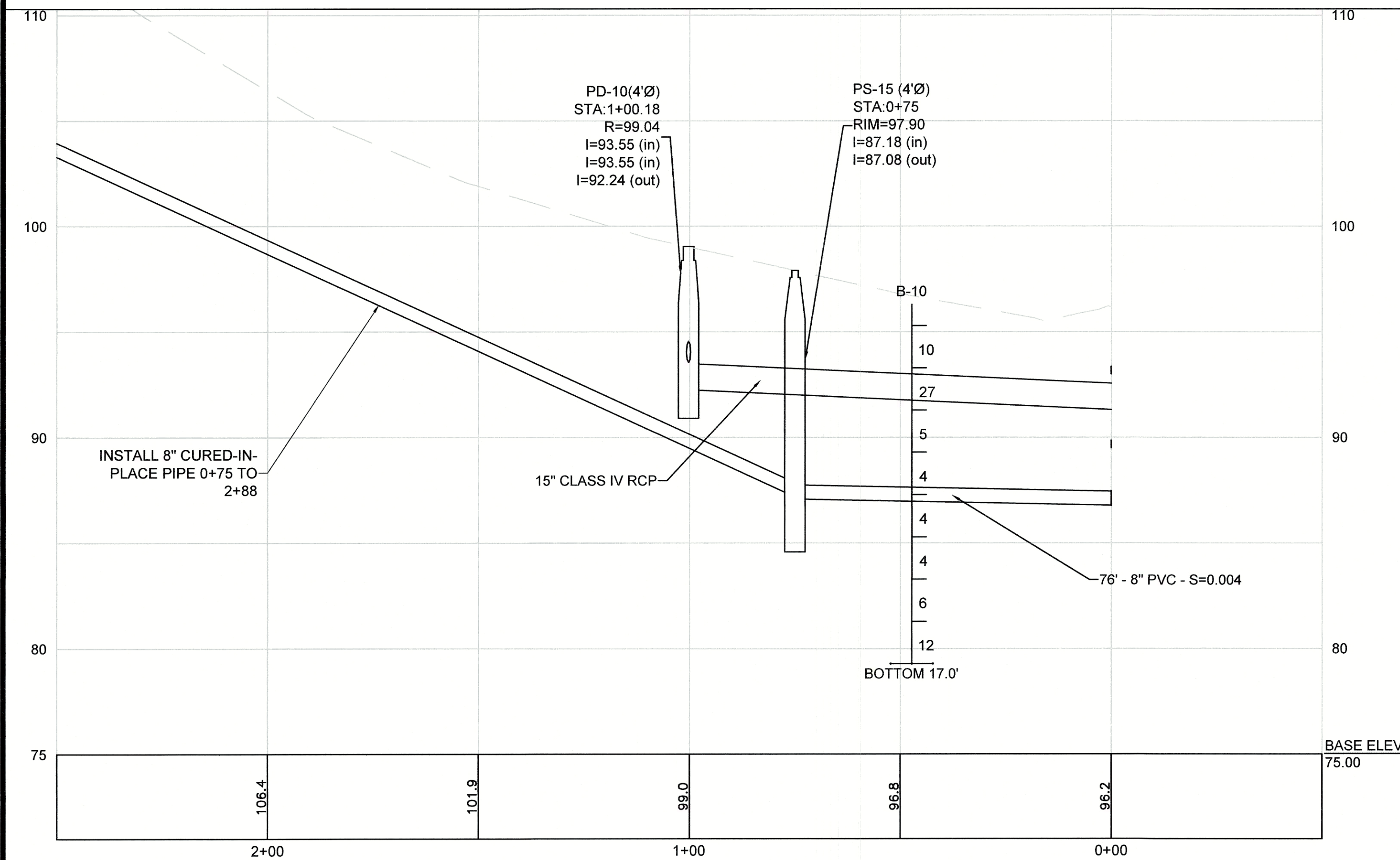
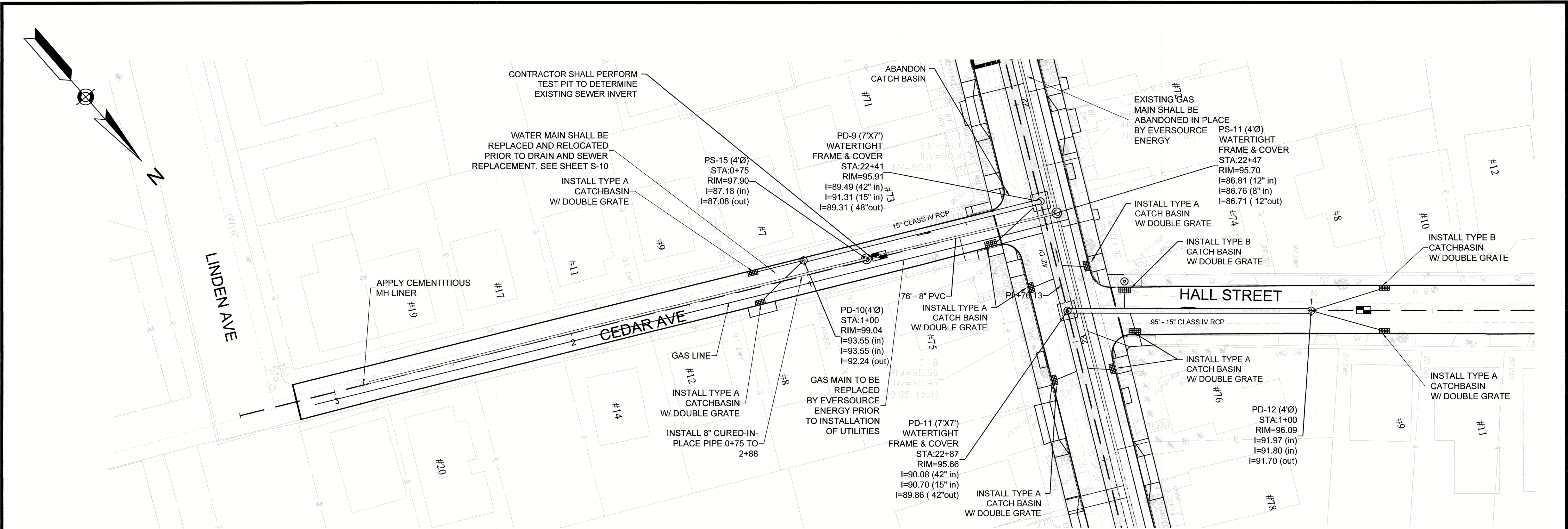
REGISTERED PROFESSIONAL ENGINEER
12/11/15
DATE



CITY OF SOMERVILLE, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS CEDAR STREET SEWER SEPARATION PROJECT	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR. BY	DSN. BY	CHK. BY	APP. BY
UTILITY PLAN AND PROFILE	214-75	AS NOTED	-	2130636	RKP	PRG	DME	DME

SHEET 9 OF 33

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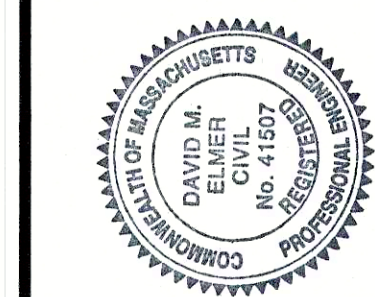
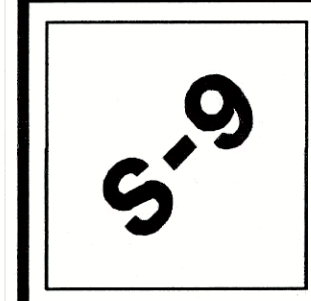
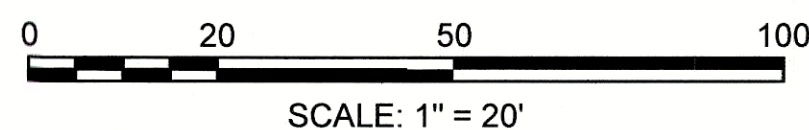
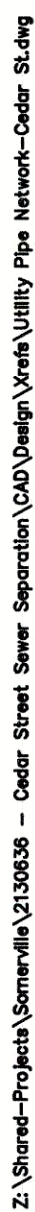
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No.	Date	Dr. By	Ck. By	App. By	Description	V	O	R	E	D
1	12/1/16				REGISTERED PROFESSIONAL ENGINEER					

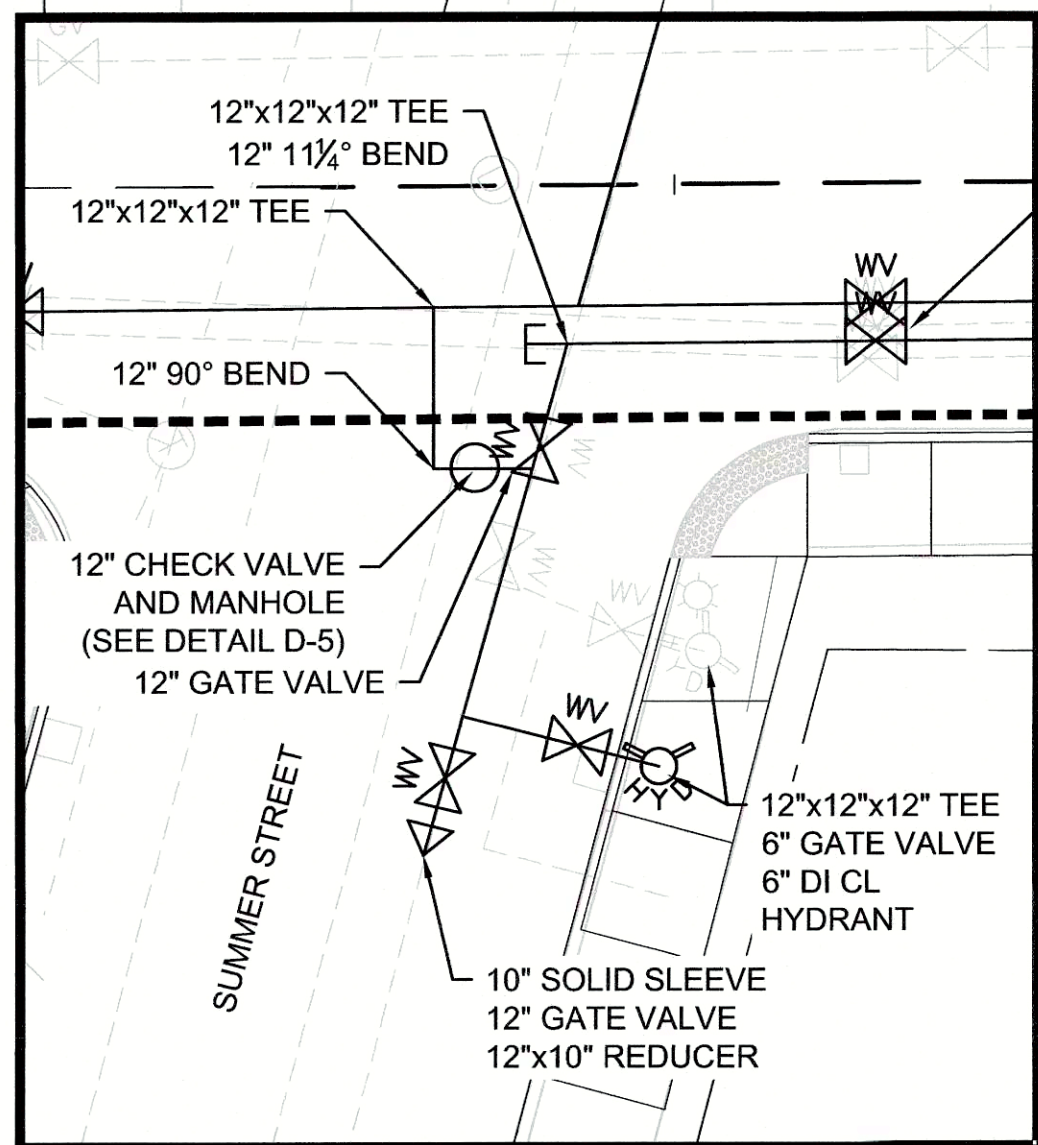
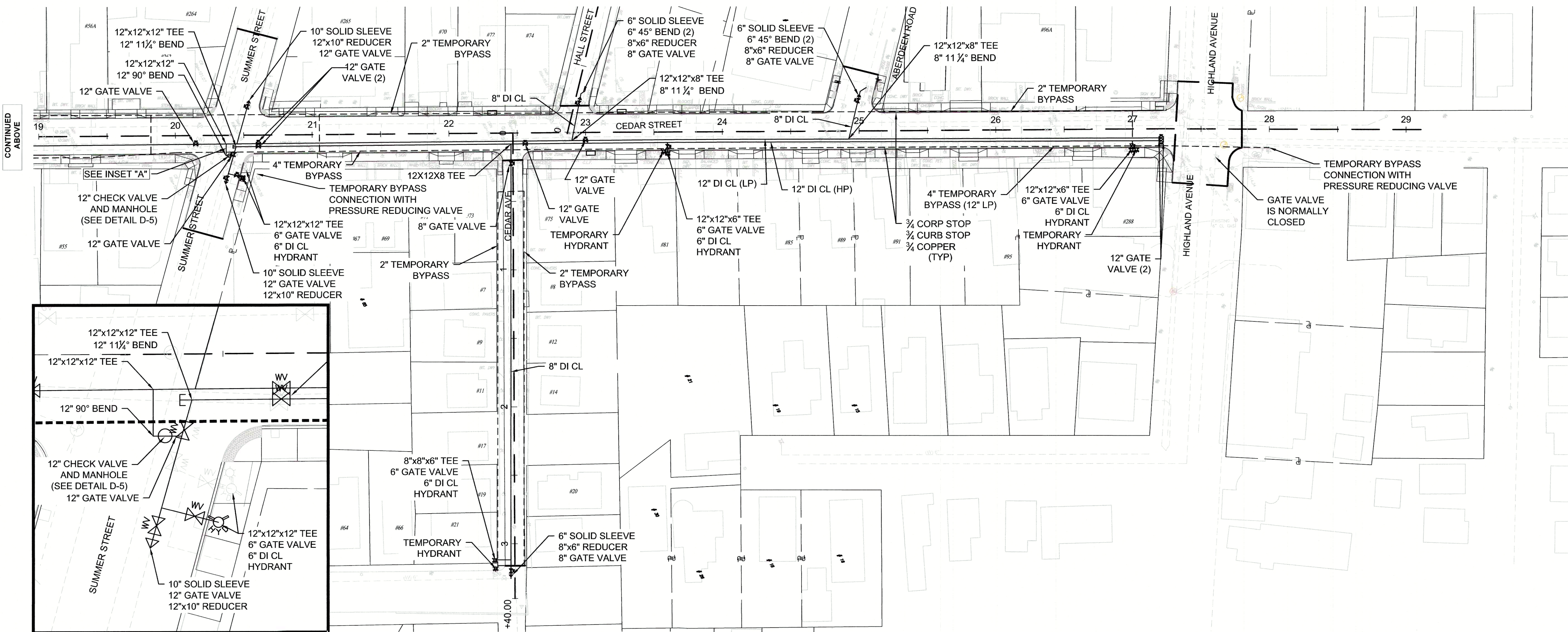
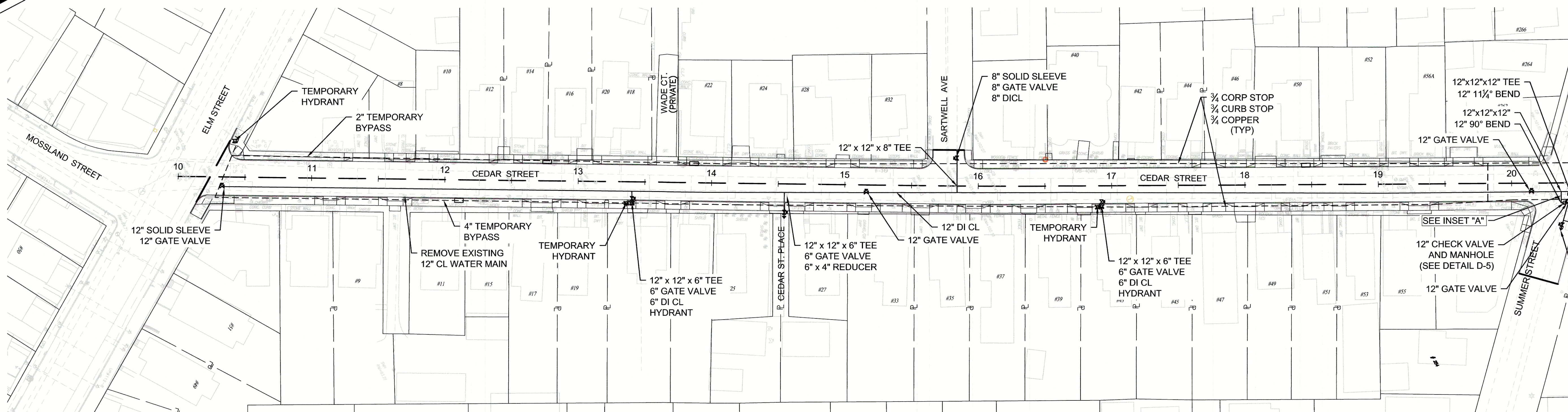
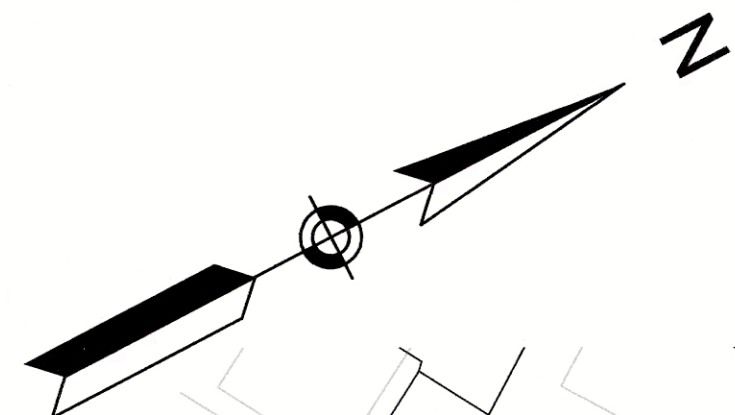


CITY OF SOMERVILLE, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS CEDAR STREET SEWER SEPARATION PROJECT CEDAR AVENUE & HALL STREET UTILITY PLAN AND PROFILE	CADD NO. 214-74	SCALE: AS NOTED	CONTRACT: 2130636	JOB NO. 2130636	DES. BY: RKP	CHK. BY: DME	APP. BY: DME
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S-8

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INSET "A"
SCALE 1" = 10'

0 40 100 160
SCALE: 1" = 40'

Weston & Sampson Five Centennial Drive, Peabody, MA 01960 (978) 532-1900 (800) 5AMPSON www.westonandsampson.com	
No.	Date
Dir. By	Ck. By
App. By	DATE
REGISTERED PROFESSIONAL ENGINEER	
CITY OF SOMERVILLE, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS CEDAR STREET & CEDAR AVENUE UTILITY PLAN - WATER MAIN	
CADD NO.	SCALE
JOB NO.	CONTRACT
DR. BY	CHK. BY
PRG	DME
FILE NO.	214-72
SHEET 12 OF 33	

