

SUDBURY WATER DISTRICT SUDBURY, MASSACHUSETTS CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS

MARCH 2019

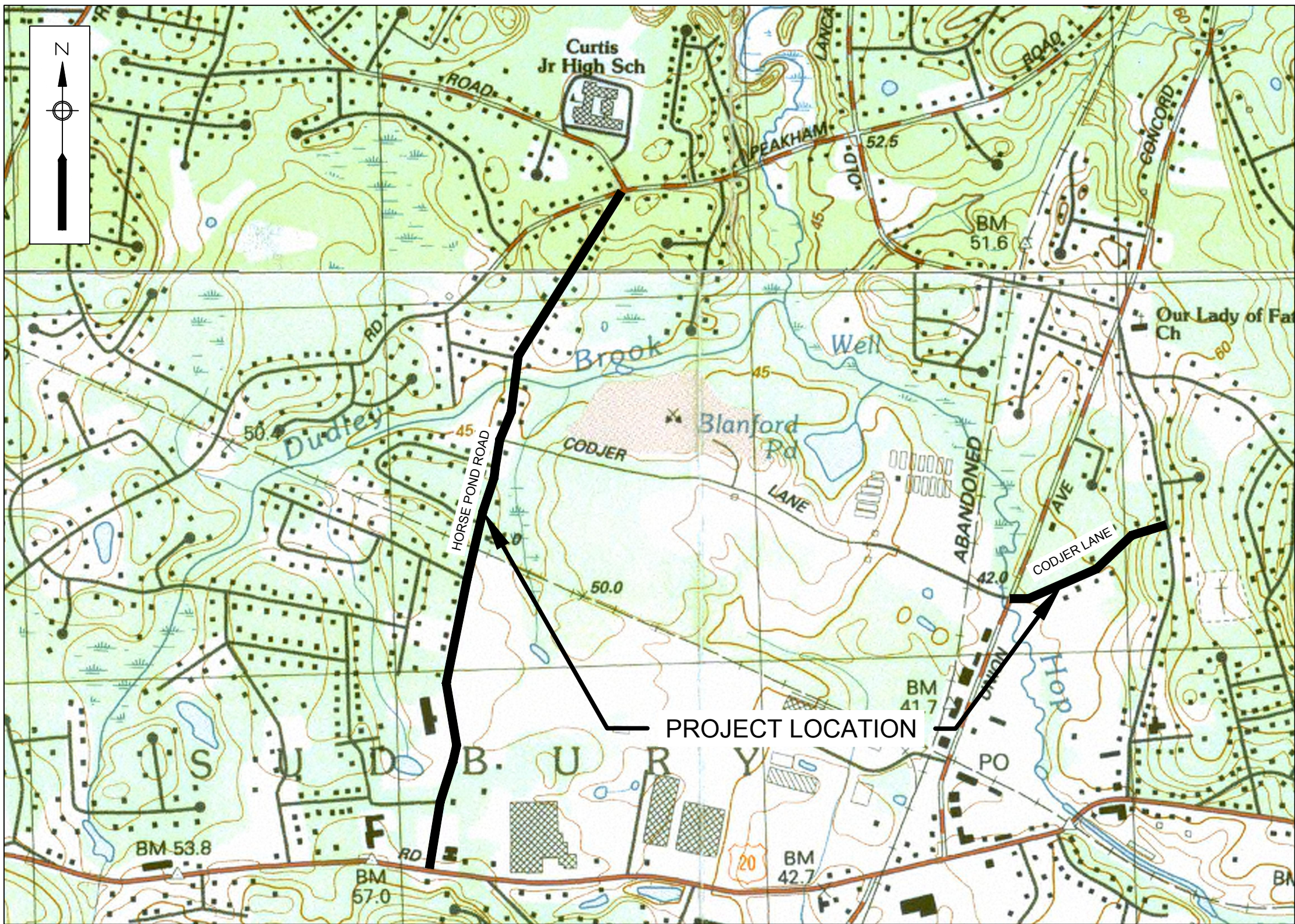
SUDBURY WATER DISTRICT

VINCENT J. ROY, DIRECTOR OF OPERATIONS
EDWARD MCAULIFFE, OPERATIONS MANAGER

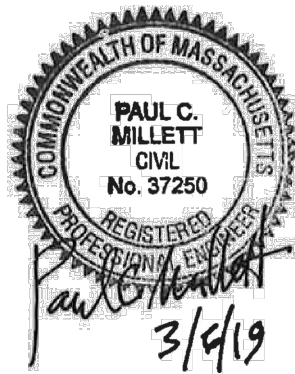
BID DOCUMENTS
FOR CONSTRUCTION
MARCH 2019

LIST OF DRAWINGS

- G-1 GENERAL NOTES AND LEGEND
- C-1 CODJER LANE EXISTING CONDITIONS
- C-2 HORSE POND ROAD EXISTING CONDITIONS I
- C-3 HORSE POND ROAD EXISTING CONDITIONS II
- C-4 HORSE POND ROAD EXISTING CONDITIONS III
- C-5 HORSE POND ROAD EXISTING CONDITIONS IV
- C-6 CODJER LANE PROPOSED WATER MAIN
- C-7 HORSE POND ROAD PROPOSED WATER MAIN I
- C-8 HORSE POND ROAD PROPOSED WATER MAIN II
- C-9 HORSE POND ROAD PROPOSED WATER MAIN III
- C-10 HORSE POND ROAD PROPOSED WATER MAIN IV
- CD-1 CIVIL DETAILS I
- CD-2 CIVIL DETAILS II



LOCUS MAP
1"= 1000'



GENERAL NOTES:

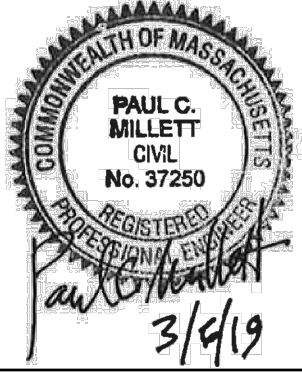
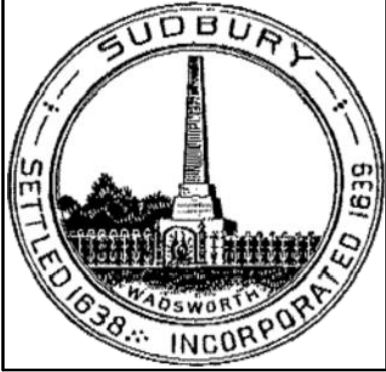
1. BASE MAP INFORMATION SHOWN ON CODJER LANE DESIGN SHEETS IS TAKEN FROM A FIELD INSTRUMENT SURVEY PERFORMED BY ENVIRONMENTAL PARTNERS GROUP IN JULY AND AUGUST OF 2018. BASE MAP INFORMATION SHOWN ON HORSE POND ROAD DESIGN SHEETS IS TAKEN FROM A FIELD INSTRUMENT SURVEY PERFORMED BY MERRILL ENGINEERS AND LAND SURVEYORS IN AUGUST OF 2018. PROPERTY LINE AND WETLAND INFORMATION IS TAKEN FROM MASSGIS AND IS APPROXIMATE ONLY. ELEVATIONS ARE BASED ON NAVD 88 DATUM.
2. IN AREAS WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO OCCUR WITHIN PRIVATE PROPERTY, PROPERTY LINE LOCATIONS ARE TO BE REVIEWED WITH THE SUDBURY WATER DISTRICT PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES, PRIVATE PROPERTY, WITHIN THE RIVERFRONT AREA, OR WITHIN 100 FEET OF WETLANDS, UNLESS DIRECTED TO DO SO BY THE CONTRACT DOCUMENTS.
4. NORTH DIRECTION SHOWN IS APPROXIMATE.
5. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS IN ADVANCE, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO ANY EXCAVATION.
6. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
8. THE CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.
9. ALL EXISTING STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL REPAIR ANY EXISTING STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION.
10. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY, NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
11. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURE CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY AND THE OWNER.
12. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, FLOWERS, STONEWALLS, FENCES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. CONTRACTOR SHALL REPLACE ALL DAMAGED ITEMS AT NO COST TO OWNER.
13. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDE WALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY THEIR CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE SUDBURY WATER DISTRICT AND ENGINEER.
14. ANY TRAFFIC SIGNAL EQUIPMENT (LIGHTS, CONDUITS, LOOP DETECTORS, ETC.) DISTURBED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS DIRECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
16. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
17. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE SUDBURY WATER DISTRICT. THE CONTRACTOR SHALL LIMIT THEIR ACTIVITIES TO THESE AREAS.
18. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK IN ROADWAYS AND FOR BLASTING. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL PERMITS AS AN INTEGRAL PART OF THE WORK.
19. THE CONTRACTOR SHALL HANDLE GROUNDWATER, WHERE ENCOUNTERED, IN AN APPROVED MANNER. DURING ANY DEWATERING, THE CONTRACTOR SHALL USE STONE AROUND THE SUCTION END TO MINIMIZE DISCHARGE OF TRENCH MATERIALS. THE DISCHARGED WATER SHALL PASS THROUGH FILTER FABRIC.
20. NOT ALL SERVICE CONNECTIONS ARE SHOWN. IT SHOULD BE ASSUMED BY THE CONTRACTOR THAT ALL PROPERTIES HAVE AT LEAST 1 WATER AND GAS SERVICE.
21. THE CONTRACTOR SHALL PLACE TEMPORARY TRENCH PAVEMENT AS DESCRIBED IN DRAWINGS AND SPECIFICATIONS. PAVING OF ALL TRENCHES IS REQUIRED AT THE END OF EACH WORK WEEK.
22. ALL TRAFFIC MANAGEMENT CONTROL DEVICES, INCLUDING VARIABLE MESSAGE BOARDS, BARRELS, CONES, AND SIGNAGE, SHALL BE FURNISHED AND DEPLOYED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
23. DURING CONSTRUCTION ON HORSE POND ROAD, ONE LANE OF THE ROAD SHALL BE KEPT OPEN AT ALL TIMES.

WATER MAIN NOTES:

1. ALL HYDRANT BRANCHES SHALL HAVE VALVES AS SHOWN ON THE HYDRANT DETAIL.
2. LOCATION OF ALL HYDRANTS SHALL BE VERIFIED BY THE SUDBURY FIRE DEPARTMENT, ENGINEER AND WATER DISTRICT PRIOR TO DIGGING FOR INSTALLATION.
3. MINIMUM COVER OVER THE PROPOSED WATER MAIN, SERVICES, AND APPURTENANCES SHALL BE 5'-0" UNLESS OTHERWISE NOTED OR DIRECTED BY ENGINEER. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
4. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN TO CLEAR EXISTING UTILITIES OR MEET EXISTING WATER MAINS.
5. EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL SATISFACTORY PRESSURE TEST AND DISINFECTION RESULTS HAVE BEEN RECEIVED BY THE ENGINEER AND ACCEPTED BY THE DISTRICT.
6. EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE OWNER. WATER SERVICE SHALL NOT BE INTERRUPTED MORE THAN 4 HOURS WITHOUT PRIOR APPROVAL OF THE OWNER.
7. ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED BURLAP BAG (OR EQUAL).
8. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES OR HYDRANTS WHICH HOLD WATER IN THE SYSTEM. THE OWNER WILL, ON 24 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES OR HYDRANTS REQUIRED FOR DRAINING OR ADMITTING WATER TO THE VARIOUS SECTIONS OF THE WATER MAINS.
9. OPEN TRENCHES MUST BE BACK FILLED AT THE END OF THE WORKDAY OR COVERED WITH STEEL PLATES AND RAMPED AS APPROVED BY THE ENGINEER AND TOWN.
10. THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE WITH THE RESIDENTS ALL WATER MAIN SHUT DOWNS 24 HOURS IN ADVANCE.
11. ALL EXISTING WATER SERVICES SHALL BE CONNECTED TO PROPOSED WATER MAIN. NEW SERVICE TO RUN FROM MAIN TO LOCATION OF EXISTING CURB STOP (AT MINIMUM). REPLACE EXISTING CURB STOP AND BOX AND CONNECT TO EXISTING WATER SERVICE ON OWNER'S SIDE.
12. CONCRETE THRUST BLOCKS AND MEGALUG (OR APPROVED EQUAL) MECHANICAL JOINT RESTRAINTS ARE REQUIRED AT ALL TEES, BENDS, PLUGS AND HYDRANTS.
13. WATER SERVICES SHALL BE INSULATED IN AREAS WHERE CONNECTION TO EXISTING WATER SERVICE IS LESS THAN 4 FEET DEEP.
14. VALVE DECOMMISSIONING – CLOSE VALVE, REMOVE AND LEGALLY DISPOSE OF GATE BOX, FILL HOLE, AND PAVE ACCORDING TO TYPICAL TRENCH DETAIL.
15. SLEEVES, NIPPLES, AND ACCESSORIES NECESSARY FOR CONNECTIONS BETWEEN EXISTING AND NEW PIPES MAY NOT BE SHOWN IN DETAIL. FURNISH AND INSTALL ITEMS NECESSARY FOR CONNECTING TO EXISTING MAINS AND AS INDICATED ON THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIAL REMOVED FROM THE TRENCH DURING CUTTING AND CAPPING OF EXISTING WATER MAINS.
17. EXCEPT WHERE OTHERWISE DIRECTED, 12" MINIMUM CLEARANCE SHALL BE PROVIDED BETWEEN THE NEW MAINS AND OTHER UTILITIES WHERE THEY CROSS. WHERE NEW MAIN PASSES UNDER UTILITIES, IT SHALL CROSS WITHOUT THE USE OF BENDS, TO THE EXTENT PRACTICABLE.
18. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
19. THE OVERNIGHT STORAGE OF MATERIALS, SUPPLIES AND EQUIPMENT MUST BE APPROVED BY THE OWNER AND ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A "STAGING AREA" FOR PIPES, SUPPLIES, MATERIALS, AND EQUIPMENT.

EXISTING		LEGEND		PROPOSED	
	EDGE OF PAVEMENT		WATER MAIN		EROSION CONTROL
	PROPERTY LINE		HYDRANT		WATER VALVE
	WATER MAIN		WATER SHUTOFF		DI REDUCER
	WATER MAIN (2018 CELCO)		TEST PIT		COUPLING/SOLID SLEEVE
	ABANDONED WATER MAIN				
	DRAIN LINE				
	GAS LINE				
	WETLAND LIMITS				
	100' WETLAND BUFFER ZONE				
	INTERMITTENT STREAM LIMITS				
	100' RIVERFRONT SETBACK				
	200' RIVERFRONT SETBACK				
	STONE WALL				
	TREELINE				
	PICKET FENCE				
	FEMA LINE				
	GUARDRAIL				
	HYDRANT				
	WATER VALVE				
	GAS VALVE				
	WATER SHUTOFF				
	GAS SHUTOFF				
	WETLAND FLAG				
	DUCTILE IRON				
	REINFORCED CONCRETE				
	POLYVINYL CHLORIDE				
	CONCRETE PIPE				
	ASBESTOS CEMENT				
	COATED STEEL				
	FLARED END SECTION				
	EDGE OF PAVEMENT				
	UTILITY POLE				
	DECIDUOUS TREE				
	BUSH/PLANTS				
	MAILBOX (MB)				
	SIGN				

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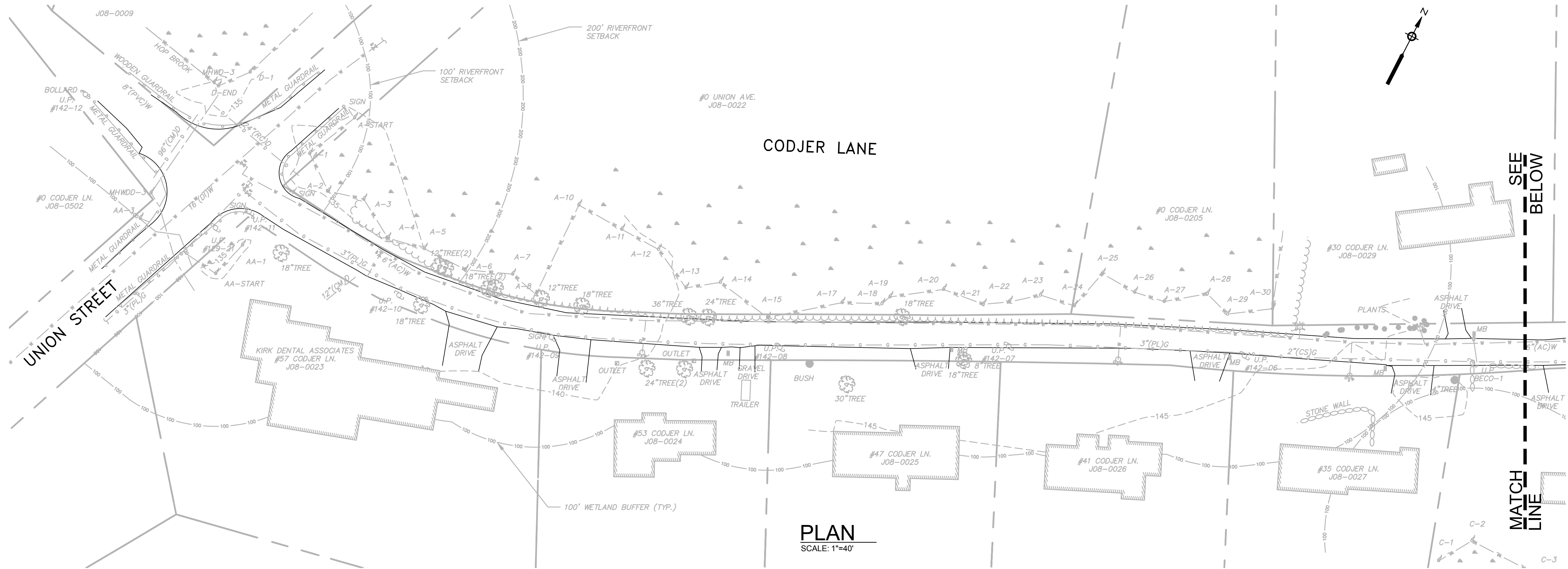


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					Designed by	PCM/SLC
					Drawn by	SLC
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					Approved by	PCM
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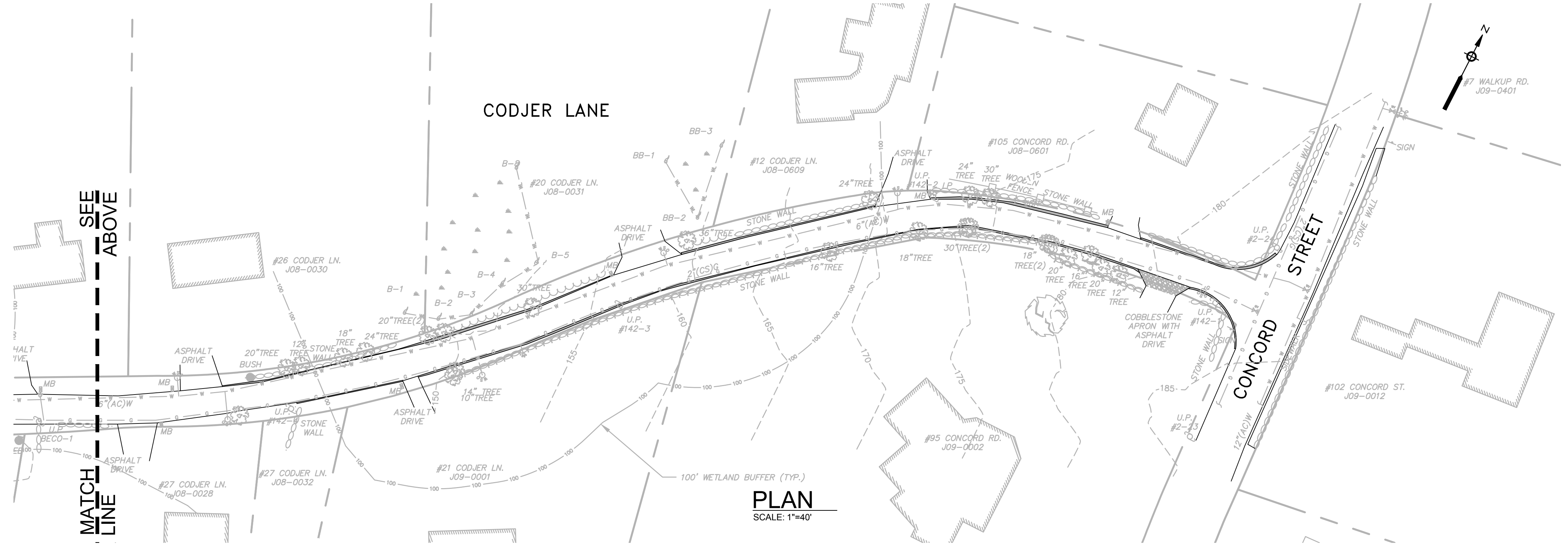
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CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS		FOR CONSTRUCTION	
GENERAL NOTES AND LEGEND		Sheet No.	
		G-1	

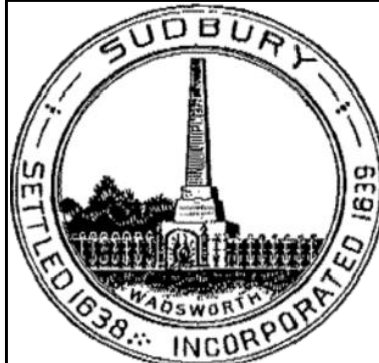
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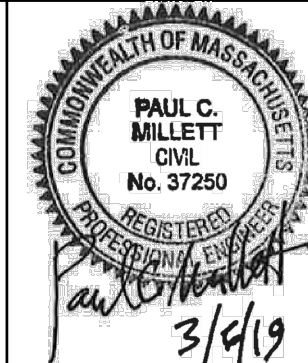
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PLAN
SCALE: 1"=40'



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MARK	DATE	DESCRIPTION

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Date	MARCH 2019
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Checked by	
Approved by	

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CODJER LANE AND HORSE POND ROAD
WATER MAIN IMPROVEMENTS
SUDBURY WATER DISTRICT, MASSACHUSETTS

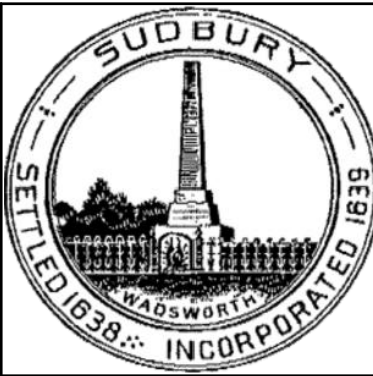
CODJER LANE
EXISTING CONDITIONS

FOR CONSTRUCTION

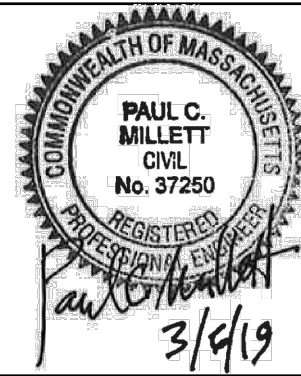
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C-1

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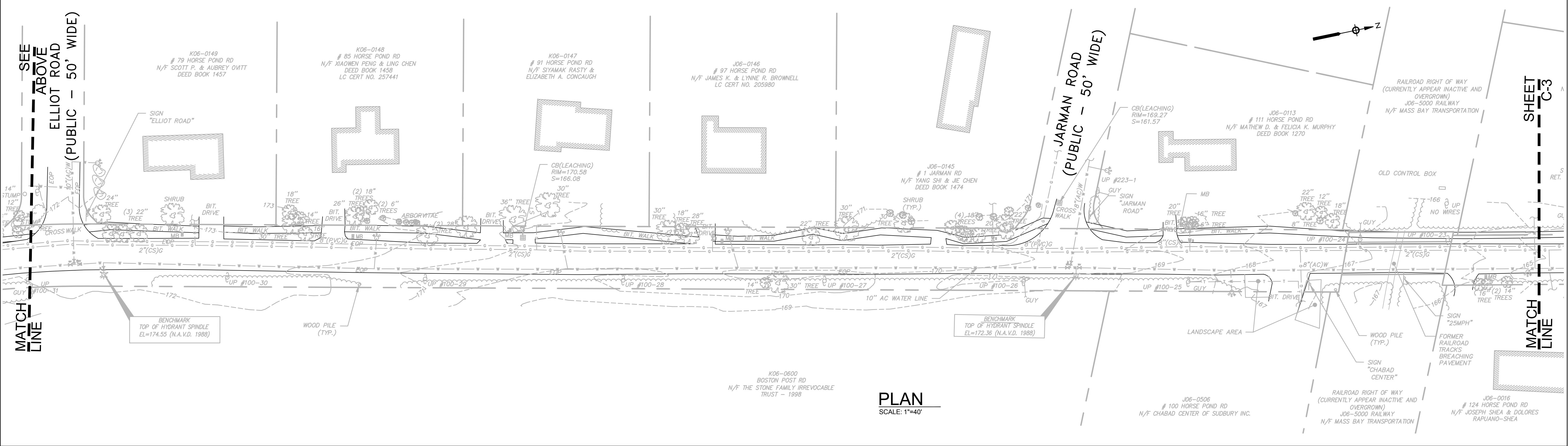
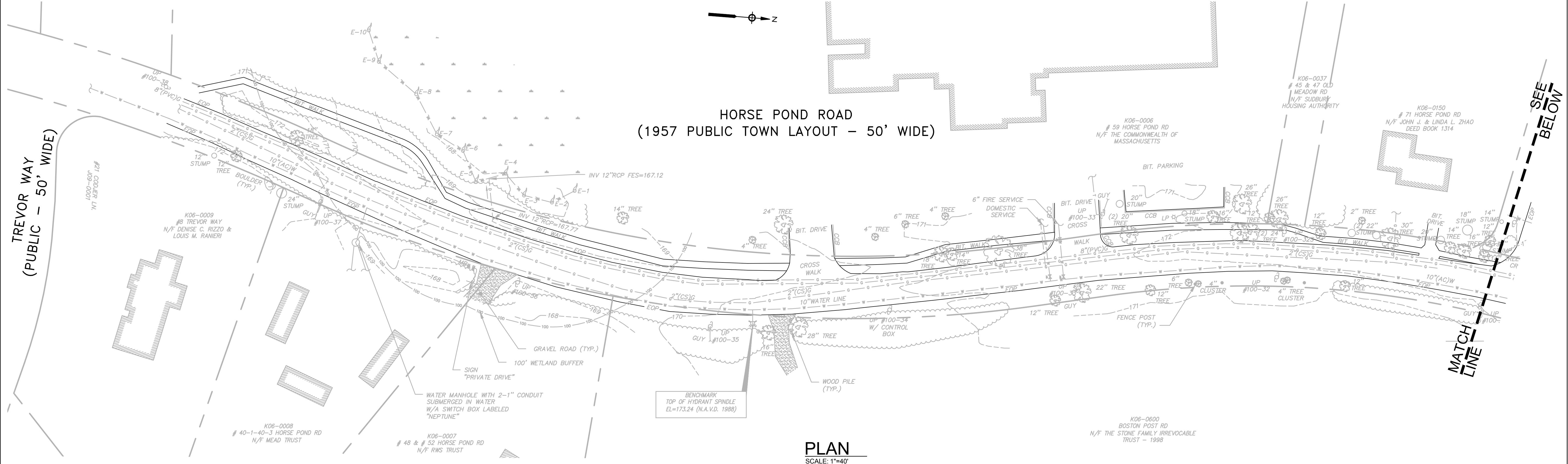
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Job No.	387-1803
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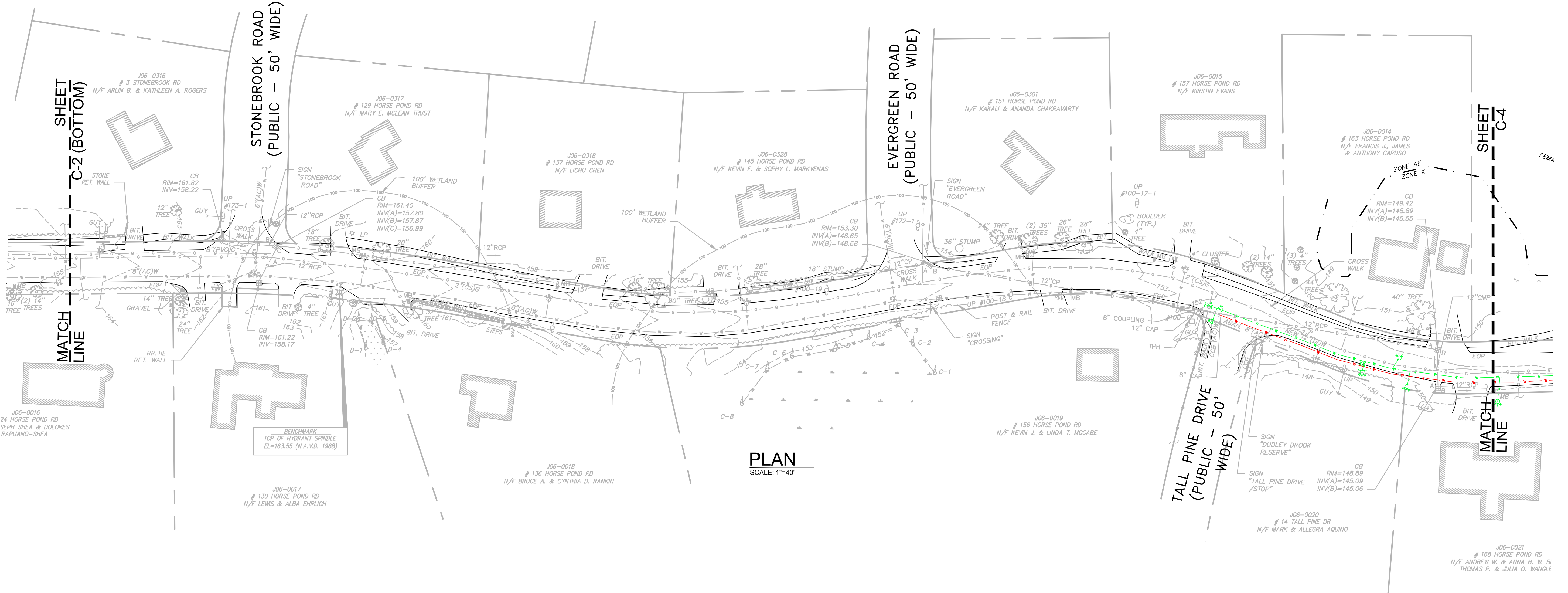
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CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS
HORSE POND ROAD EXISTING CONDITIONS I

FOR CONSTRUCTION
Sheet No.
C-2

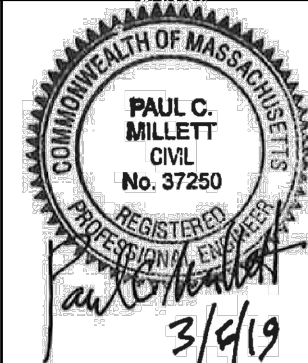
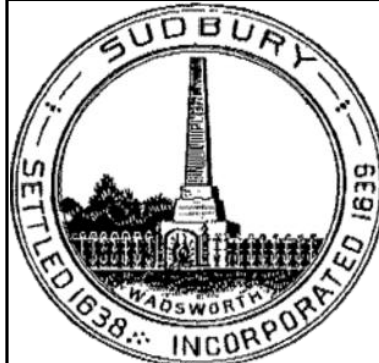


HORSE POND ROAD
(1959 PUBLIC TOWN LAYOUT - 40' WIDE)



PLAN
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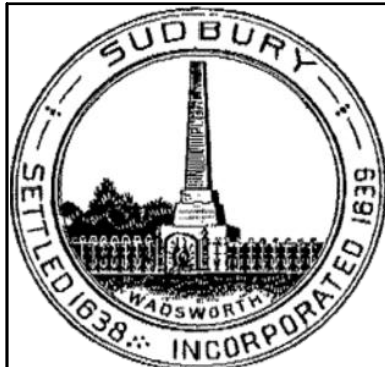
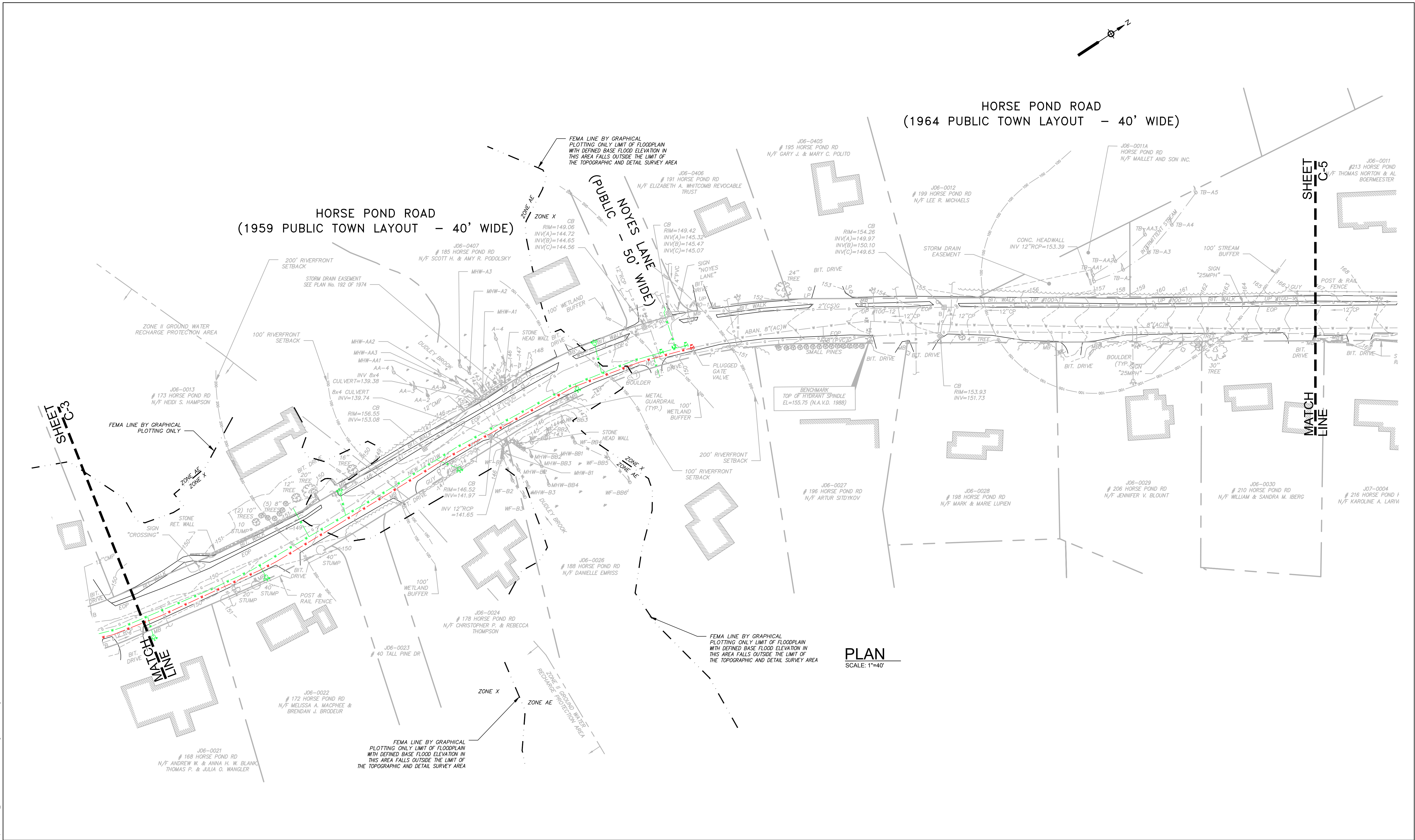
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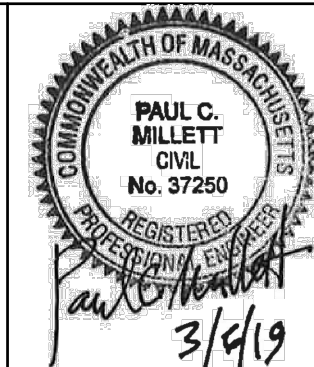
CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS
HORSE POND ROAD EXISTING CONDITIONS II

FOR CONSTRUCTION
Sheet No.
C-3

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MARK	DATE	DESCRIPTION

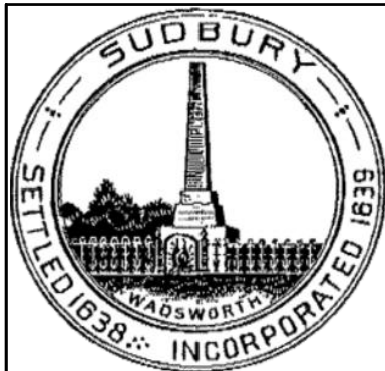
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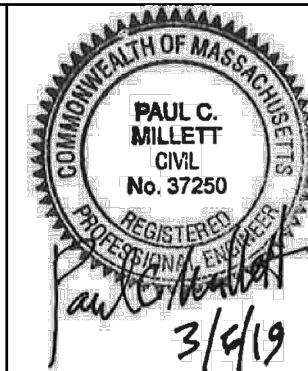
CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS
HORSE POND ROAD EXISTING CONDITIONS III

FOR CONSTRUCTION
Sheet No. C-4

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MARK	DATE	DESCRIPTION

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Job No.	387-1803
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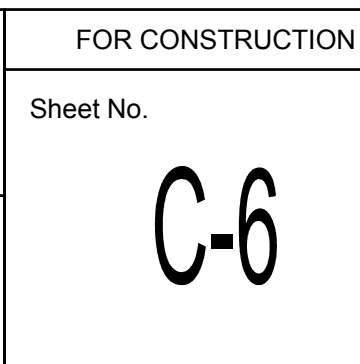
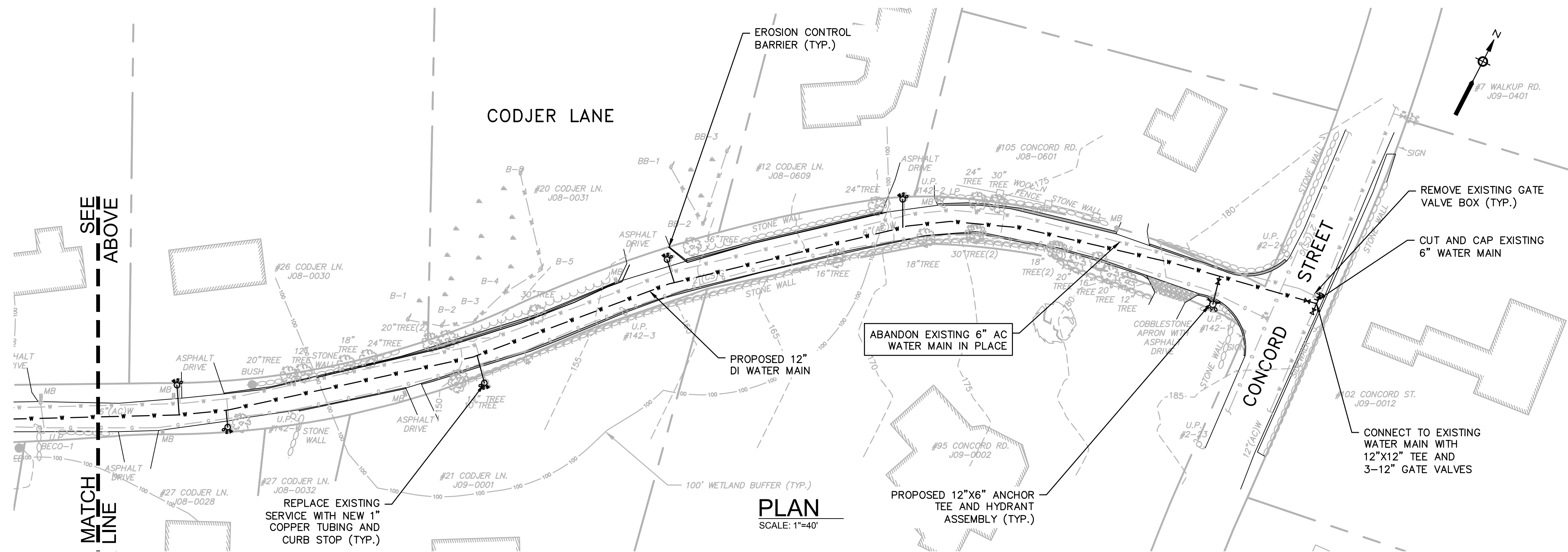
CODJER LANE AND HORSE POND ROAD
WATER MAIN IMPROVEMENTS
SUDBURY WATER DISTRICT, MASSACHUSETTS

HORSE POND ROAD
EXISTING CONDITIONS IV

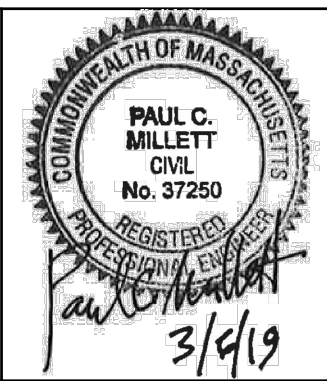
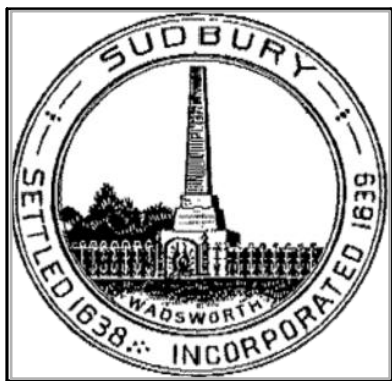
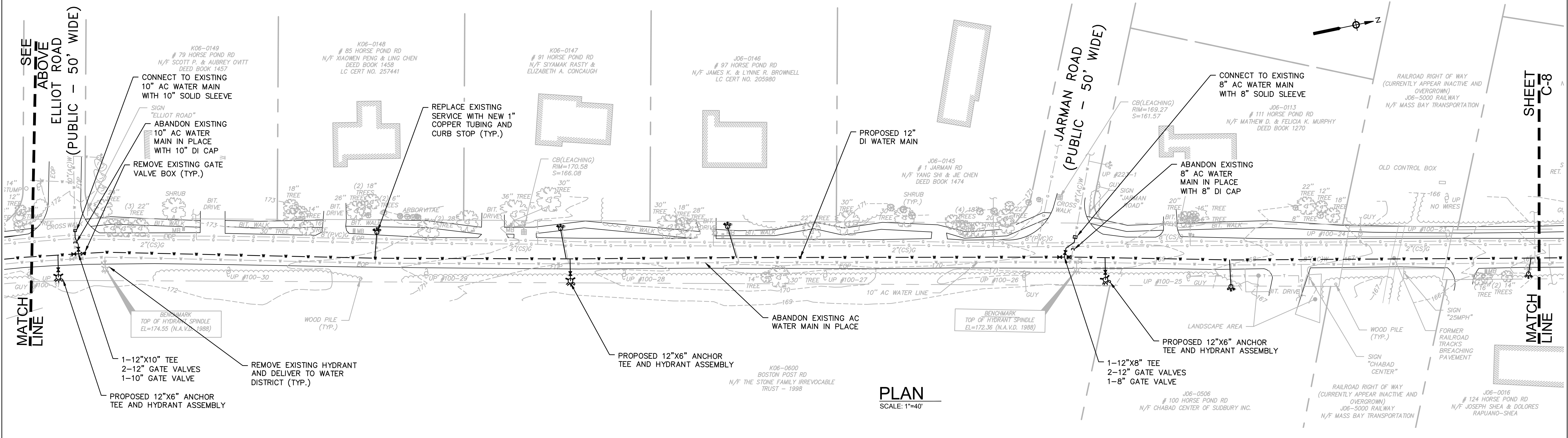
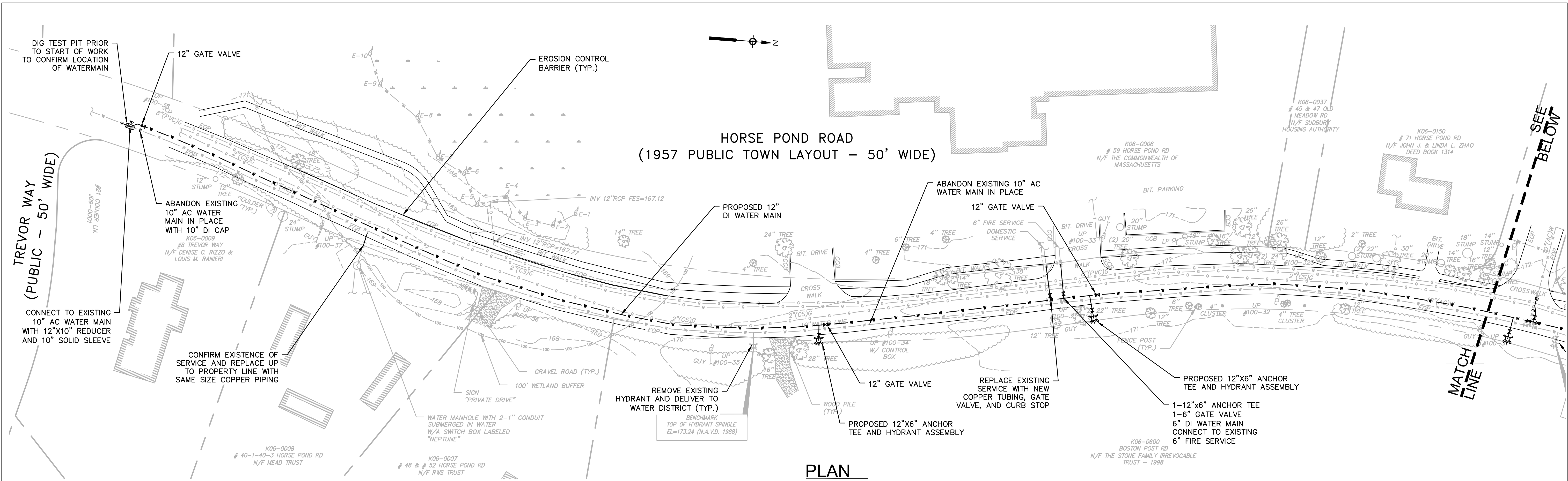
FOR CONSTRUCTION

Sheet No.

C-5



Drawing file: I:\Sudbury Water District\387\Watermain\2018\01 Design\01 Drawings\03 Horse Pond Rd - Proposed Design.dwg Plot Date: Mar 06, 2019 8:57 am



MARK	DATE	DESCRIPTION

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Date	MARCH 2019
Job No.	387-1803
Designed by	PCM/SLC
Drawn by	SLC
Checked by	BJM
Approved by	PCM

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CODJER LANE AND HORSE POND ROAD
WATER MAIN IMPROVEMENTS
SUDBURY WATER DISTRICT, MASSACHUSETTS

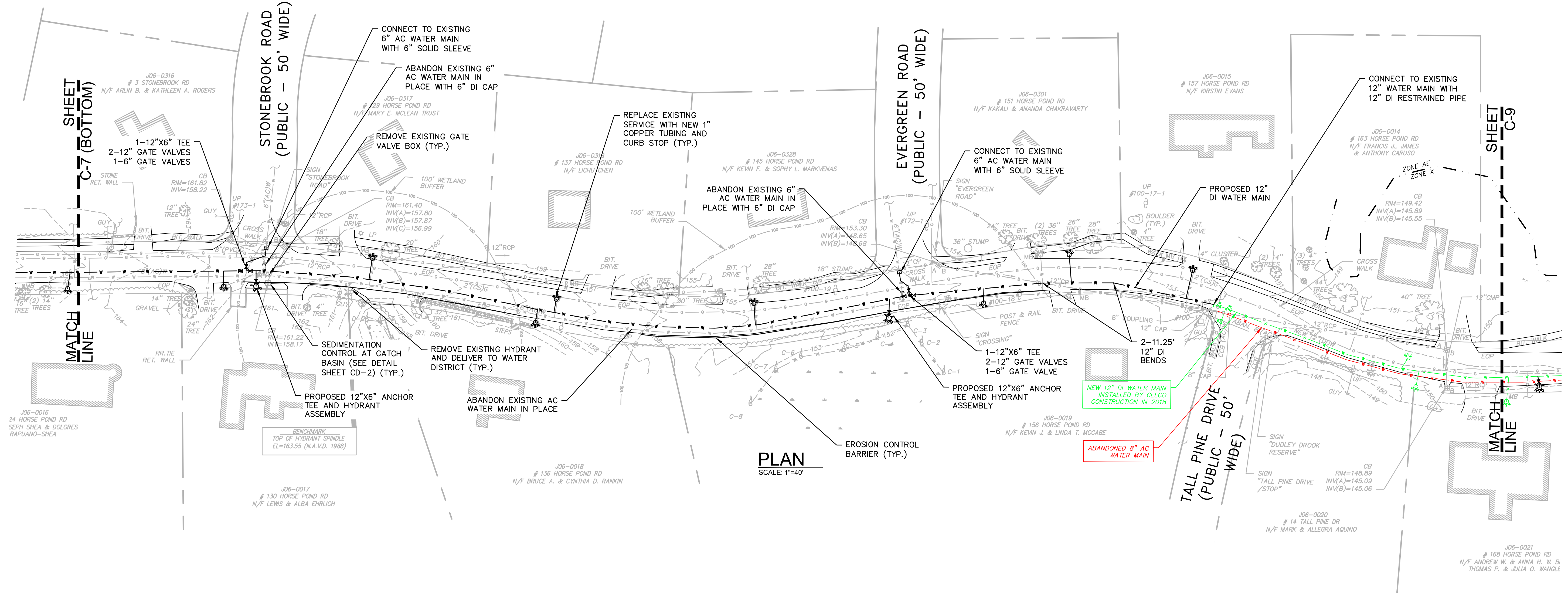
HORSE POND ROAD
PROPOSED WATER MAIN I

FOR CONSTRUCTION

Sheet No.

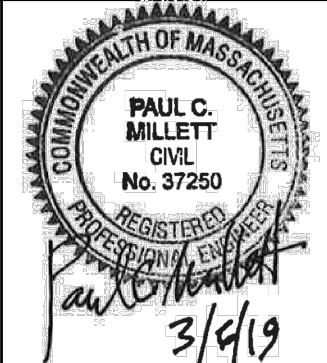
C-7

HORSE POND ROAD
(1959 PUBLIC TOWN LAYOUT - 40' WIDE)

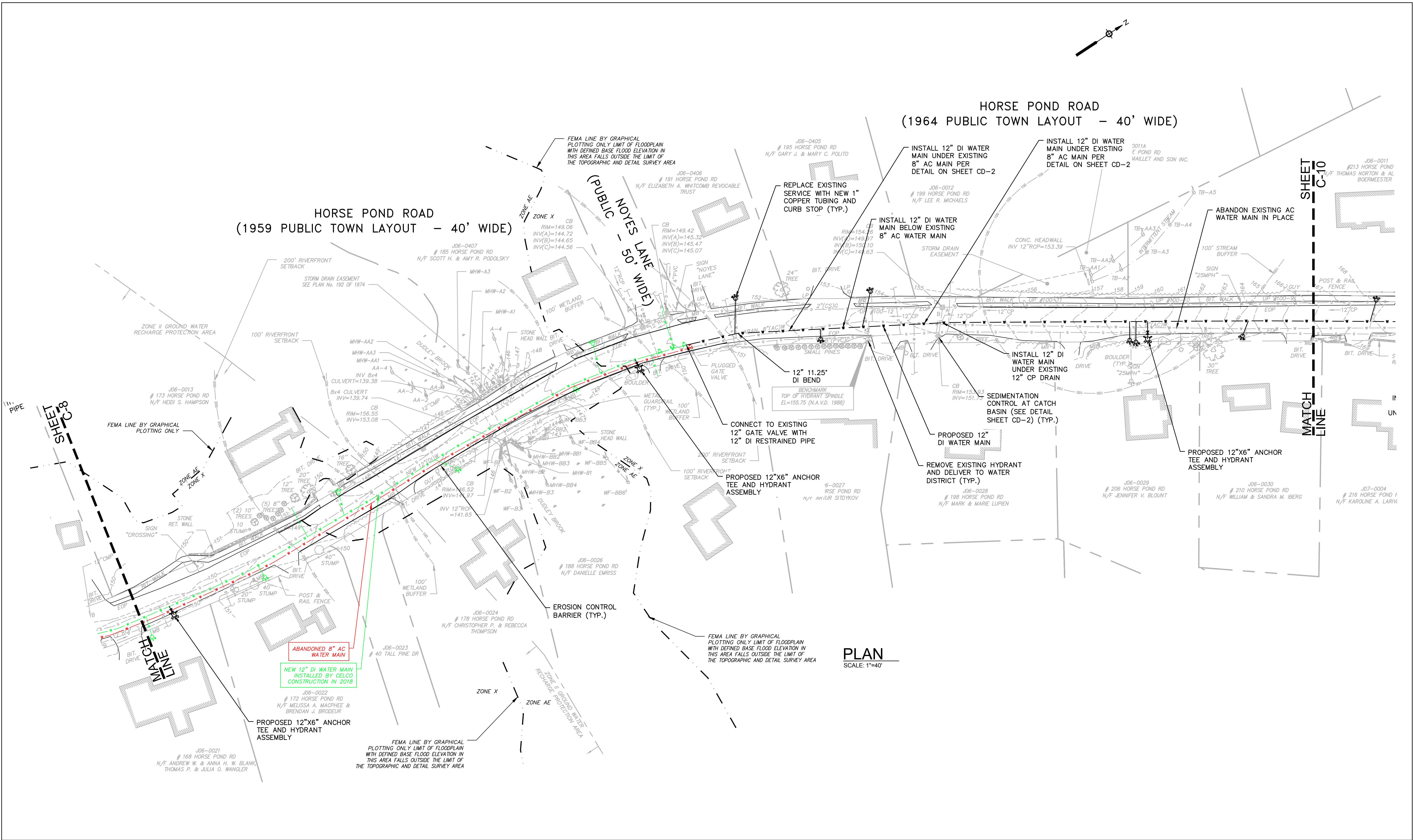


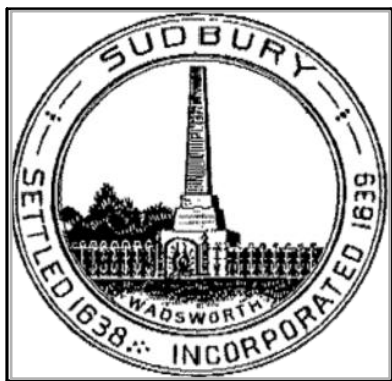
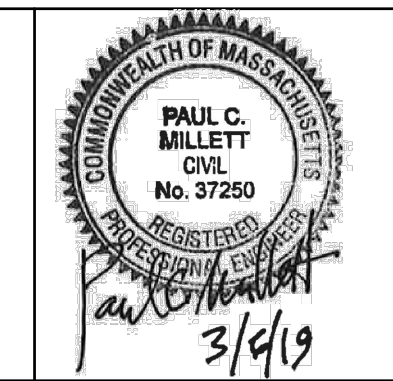
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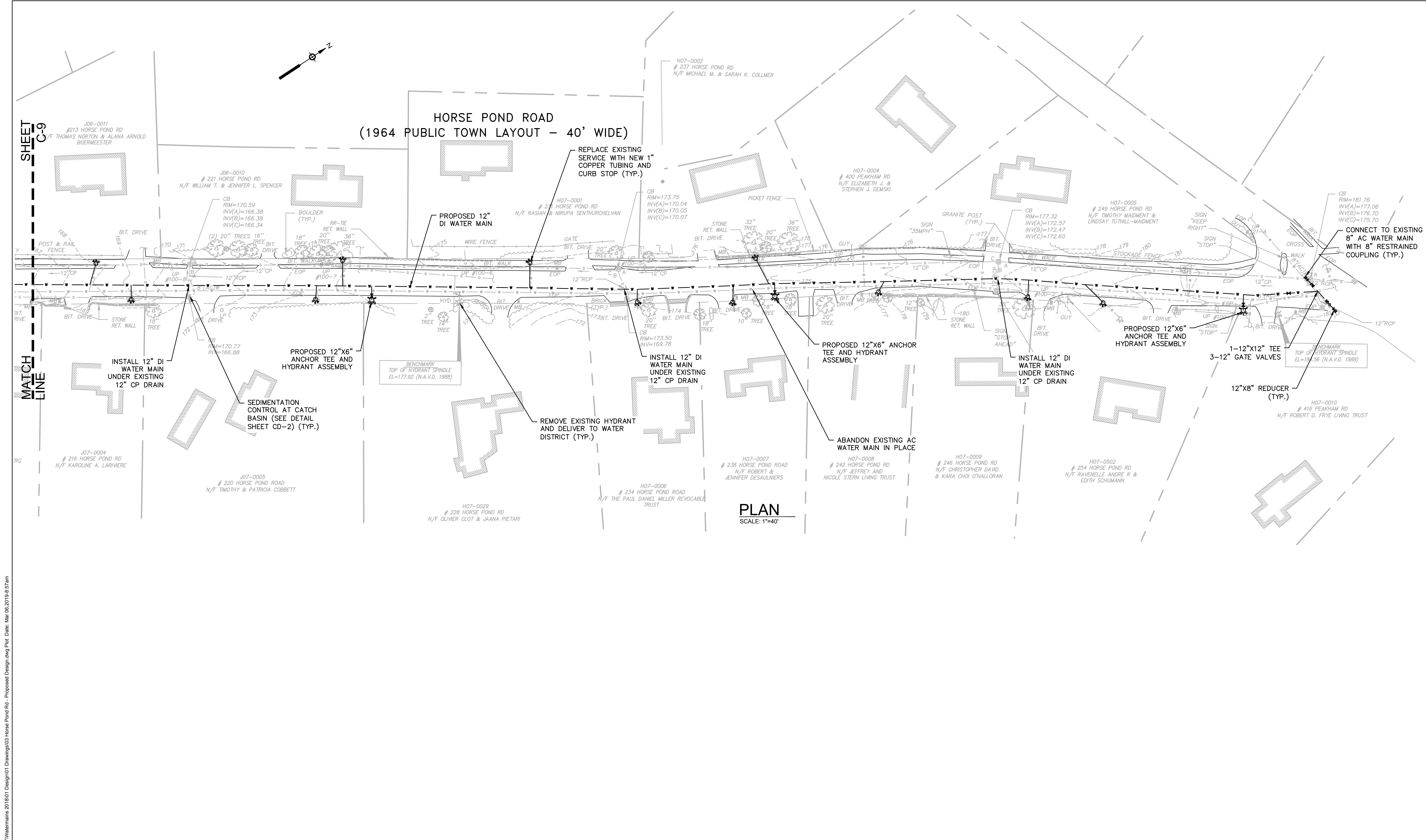
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			<table border="1"><thead><tr><th>MARK</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	MARK	DATE	DESCRIPTION																									<table border="1"><tr><td>Scale</td><td>1"=40'</td></tr><tr><td>Date</td><td>MARCH 2019</td></tr><tr><td>Job No.</td><td>387-1803</td></tr><tr><td>Designed by</td><td>PCM/SLC</td></tr><tr><td>Drawn by</td><td>SLC</td></tr><tr><td>Checked by</td><td>BJM</td></tr><tr><td>Approved by</td><td>PCM</td></tr></table>	Scale	1"=40'	Date	MARCH 2019	Job No.	387-1803	Designed by	PCM/SLC	Drawn by	SLC	Checked by	BJM	Approved by	PCM	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	<table border="1"><tr><td colspan="2">CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS</td></tr><tr><td colspan="2">HORSE POND ROAD PROPOSED WATER MAIN II</td></tr></table>	CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS		HORSE POND ROAD PROPOSED WATER MAIN II		<table border="1"><tr><td>FOR CONSTRUCTION</td></tr><tr><td>Sheet No. C-8</td></tr></table>	FOR CONSTRUCTION	Sheet No. C-8
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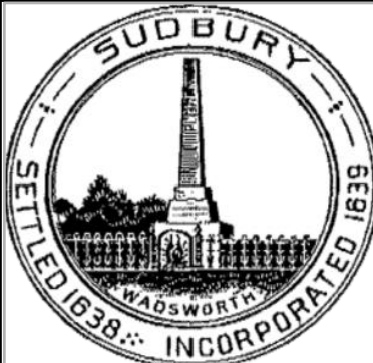
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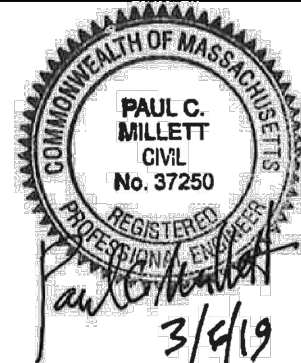
			<table border="1"><thead><tr><th>MARK</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	MARK	DATE	DESCRIPTION																												<table border="1"><thead><tr><th>Scale</th><th>1"=40'</th></tr></thead><tbody><tr><td>Date</td><td>MARCH 2019</td></tr><tr><td>Job No.</td><td>387-1803</td></tr><tr><td>Designed by</td><td>PCM/SLC</td></tr><tr><td>Drawn by</td><td>SLC</td></tr><tr><td>Checked by</td><td>BJM</td></tr><tr><td>Approved by</td><td>PCM</td></tr></tbody></table>	Scale	1"=40'	Date	MARCH 2019	Job No.	387-1803	Designed by	PCM/SLC	Drawn by	SLC	Checked by	BJM	Approved by	PCM	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS	FOR CONSTRUCTION
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HORSE POND ROAD PROPOSED WATER MAIN III	Sheet No. C-9																																																		



Drawing file: I:\Sudbury Water District\387\Watermain\2018\01 Design\01 Drawings\03 Horse Pond Rd - Proposed Design.dwg Plot Date: Mar 06, 2019 9:57am



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MARK	DATE	DESCRIPTION

Scale	1"=40'
Date	MARCH 2019
Job No.	387-1803
Designed by	PCM/SLC
Drawn by	SLC
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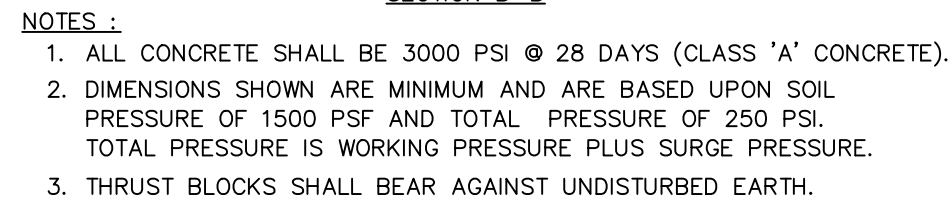
CODJER LANE AND HORSE POND ROAD
WATER MAIN IMPROVEMENTS
SUDBURY WATER DISTRICT, MASSACHUSETTS

HORSE POND ROAD
PROPOSED WATER MAIN IV

FOR CONSTRUCTION

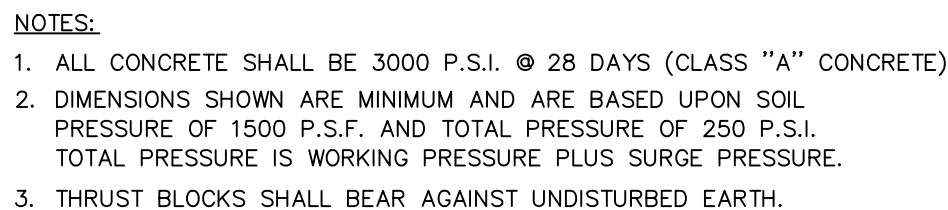
Sheet No.

C-10



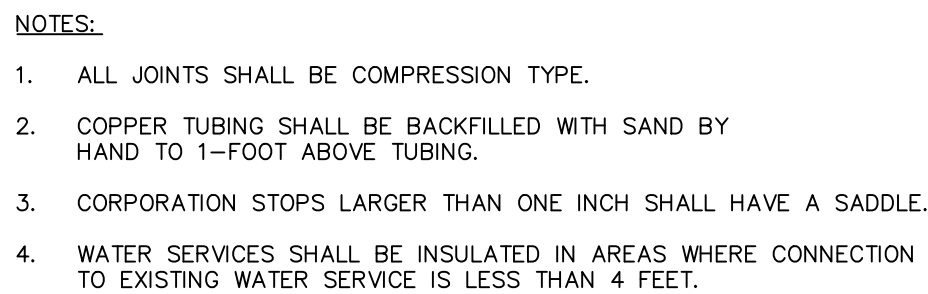
D (in)	4	6	8	10	12	14	16
J (in)	6	6	7	9	10	12	22
K (in)	16	16	20	26	32	36	64
L (in)	16	16	21	24	29	34	61
M (in)	11	11	14	16	19	22	39

SCALE: N.T.S.

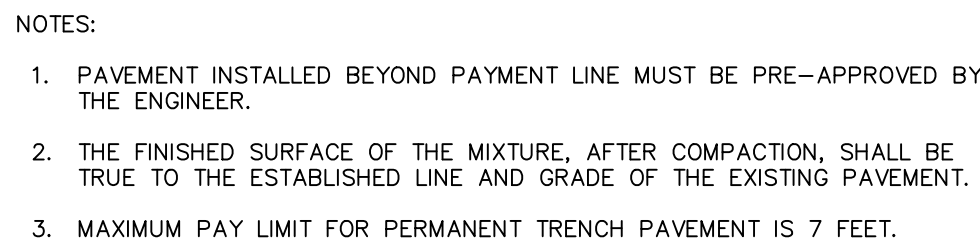


DIMENSION	90° BEND								45° BEND								22 1/2° BEND								11 1/4° BEND							
D (in.)	4	6	8	10	12	14	16	4	6	8	10	12	14	16	4	6	8	10	12	14	16	4	6	8	10	12	14	16				
X (in.)	35	35	50	56	72	80	142	24	35	45	51	60	107	28	28	30	32	37	42	74	12	19	21	27	33	58	28	39				
Y (in.)	20	20	24	32	35	40	71	16	19	21	27	33	59	13	13	13	16	19	22	39	8	8	9	12	13	16	28	39				
T (in.)	11	11	14	16	19	22	39	11	11	14	16	19	22	39	11	11	13	16	19	22	39	11	11	13	16	19	22	39				

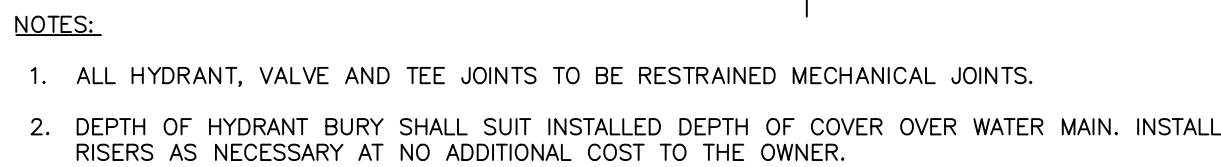
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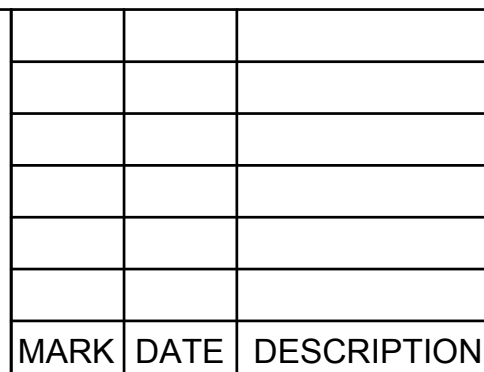
SCALE: N.T.S



SCALE: N.T.S.



SCALE: N.T.S.



Scale	AS SHOWN
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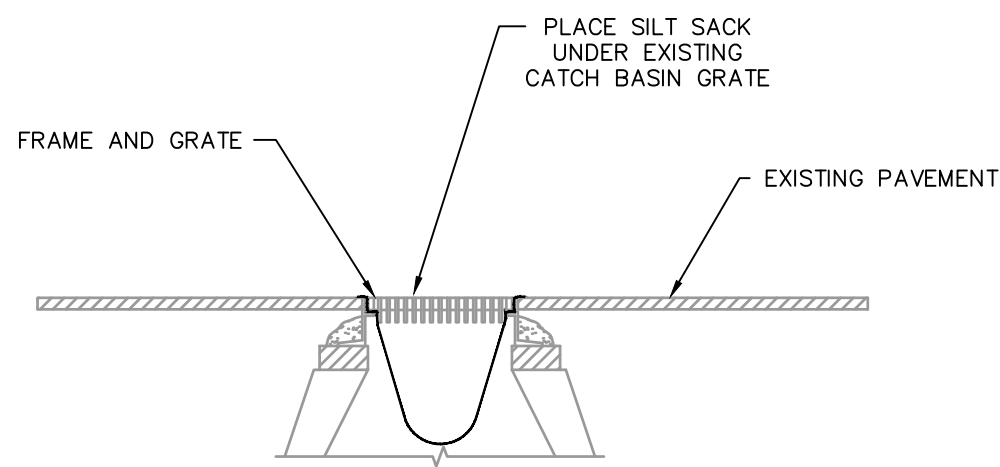
CODJER LANE AND HORSE POND ROAD
WATER MAIN IMPROVEMENTS
SUDBURY WATER DISTRICT, MASSACHUSETTS

CIVIL DETAILS I

FOR CONSTRUCTION

Sheet No

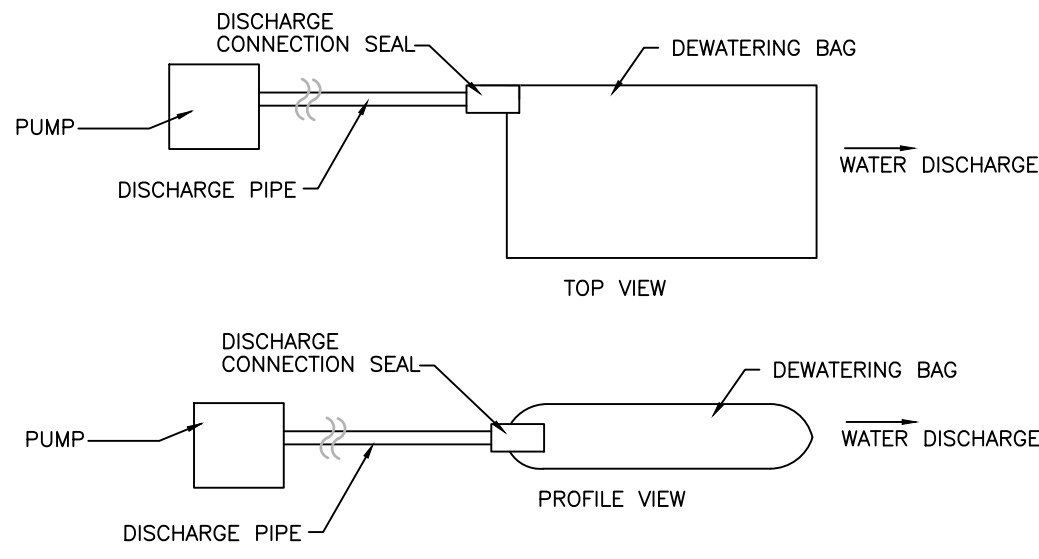
CD-1



NOTES:

1. SILT SACKS SHALL BE INSPECTED WEEKLY AND ACCUMULATED SILT REMOVED TO ALLOW CATCH BASIN TO FUNCTION PROPERLY.

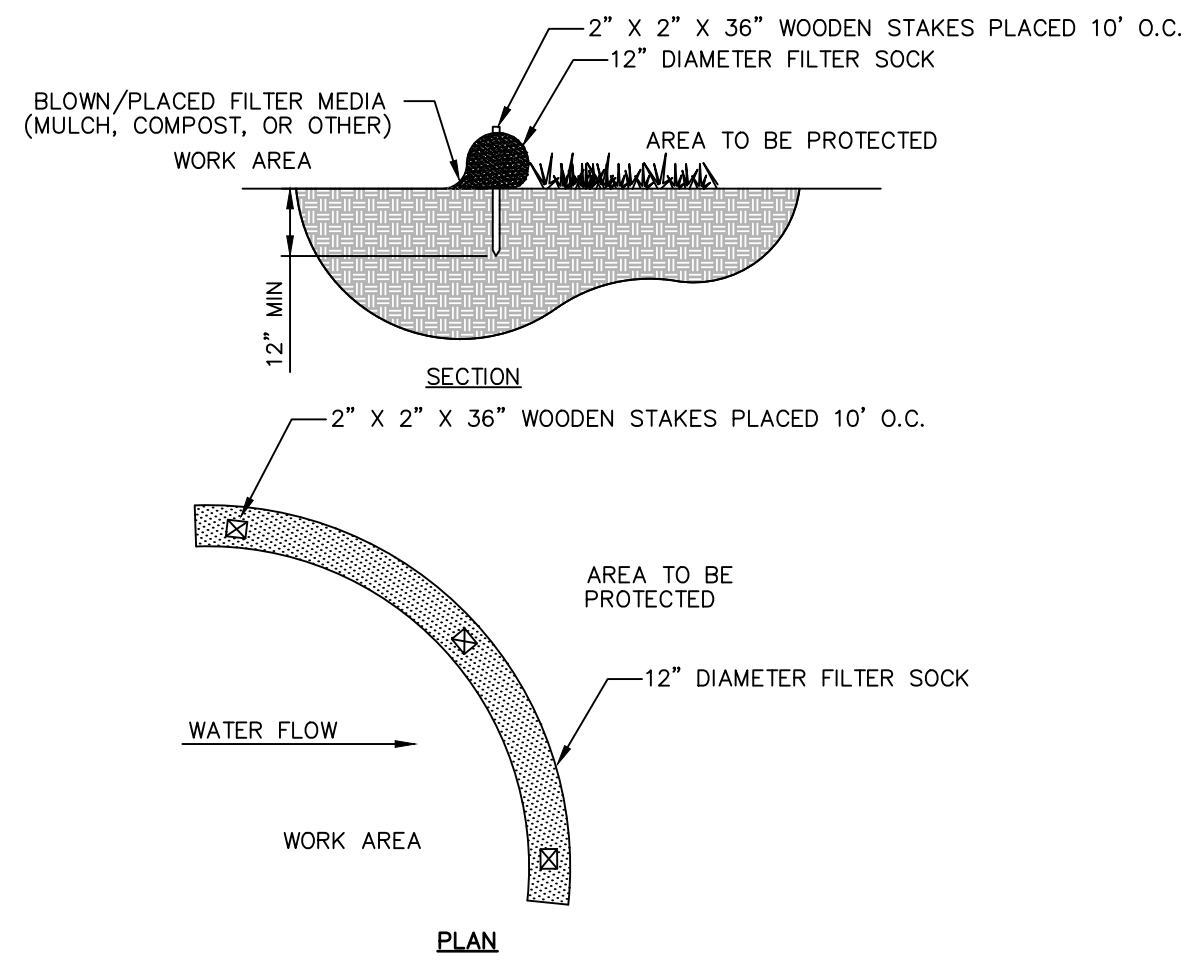
**SEDIMENTATION CONTROL
AT CATCH BASINS SILT SACKS**
SCALE: N.T.S.



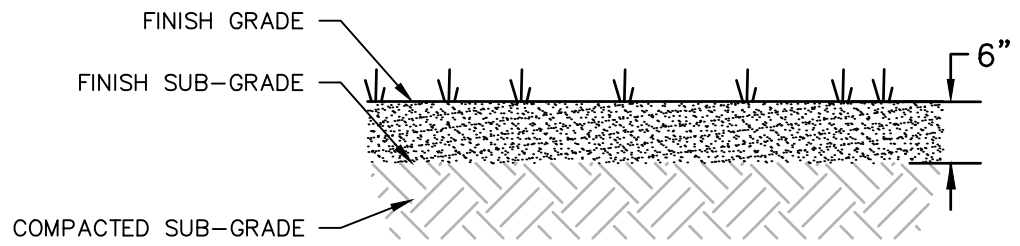
NOTES:

1. DEWATERING BAG SIZE AND QUANTITY SHALL BE AS NEEDED TO ADEQUATELY FILTER ALL PUMP EFFLUENT FROM DEWATERING ACTIVITIES. CONTRACTOR SHALL PROVIDE A REDUNDANT BAG ON SITE AT ALL TIMES.
2. EACH BAG SHALL HANDLE A 2", 3", OR 4" DISCHARGE HOSE.
3. DISCHARGE HOSES CAN BE PLACED ALONG ANY EDGE BY MAKING A SMALL INCISION INTO THE FABRIC, INSERTING THE HOSE, AND THEN CLAMPING THE FABRIC TO THE HOSE VIA WIRE, TIES, CLAMP, ROPE OR SIMILAR TO CREATE A GOOD SEAL.
4. CONTRACTOR SHALL AVOID DISCHARGING MULTIPLE PIPES INTO ONE BAG.

DEWATERING BAGS
SCALE: N.T.S.



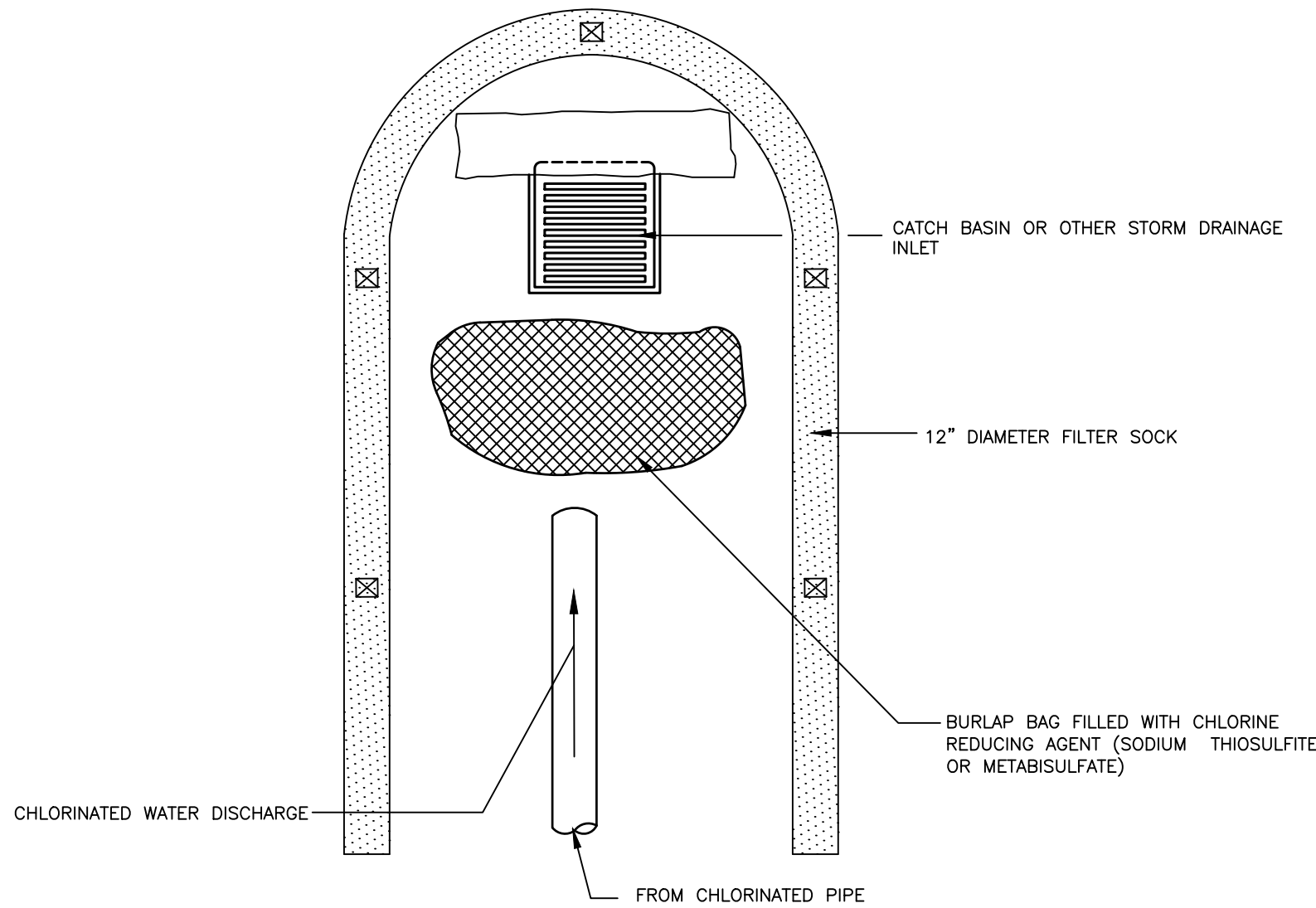
12" DIAMETER FILTER SOCK
SCALE: N.T.S.



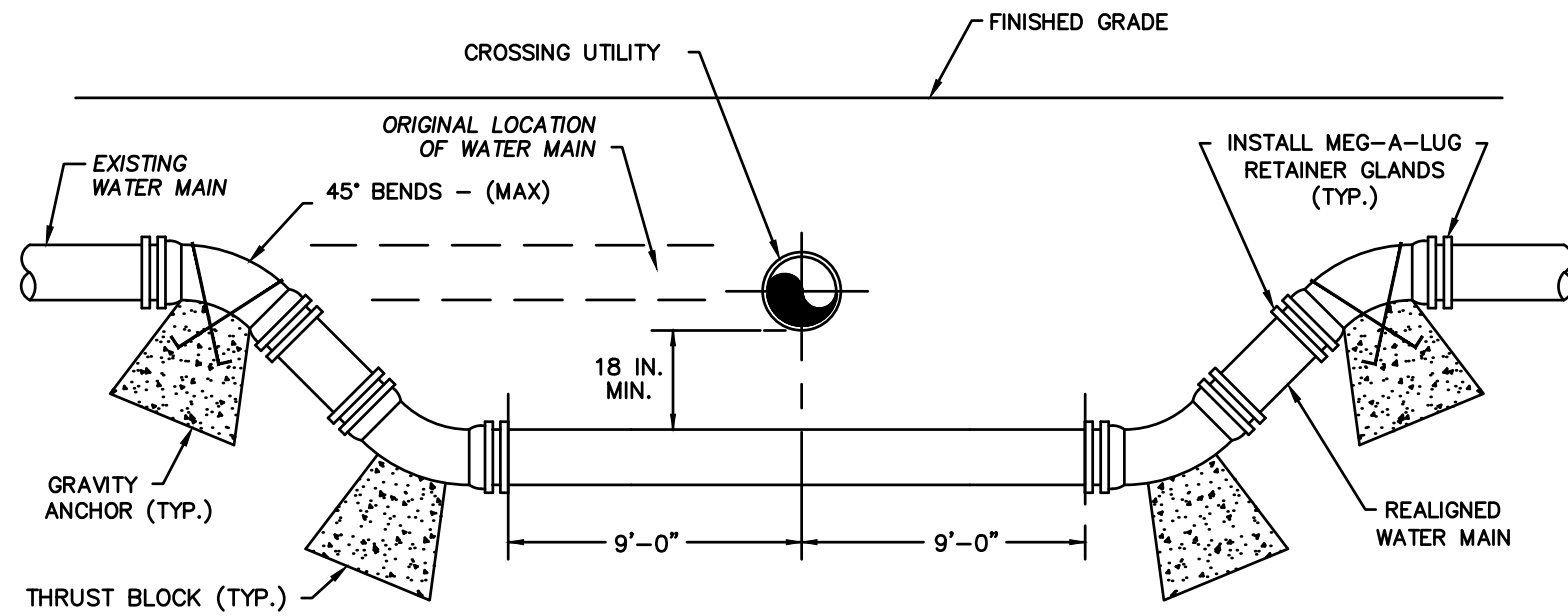
NOTES:

1. SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS.

RESTORATION OF GROWTH
SCALE: N.T.S.



DECHLORINATION DETAIL
SCALE: N.T.S.

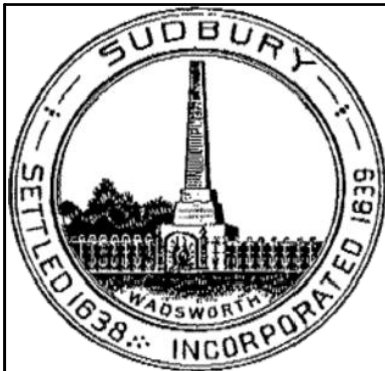


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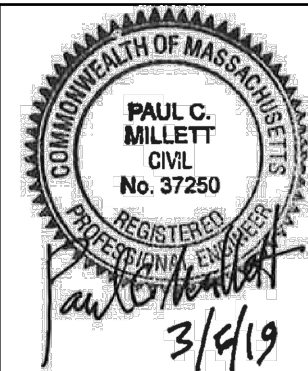
1. ALL FITTINGS AND JOINTS IN LOWERING AREA TO BE RESTRAINED.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS INDICATED IN THE DETAIL ABOVE, BOTH THE WATER AND THE UTILITY PIPE SHOULD BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.
3. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT WHEN CONTACTING CONTROL DENSITY FILL.

WATER MAIN LOWERING DETAIL
SCALE: N.T.S.

Drawing file: C:\Users\scipapp\local\temp\AcPublish_9664104_Details.dwg Plot Date: Mar 06 2019 8:57 am



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CODJER LANE AND HORSE POND ROAD WATER MAIN IMPROVEMENTS SUDBURY WATER DISTRICT, MASSACHUSETTS
CIVIL DETAILS II

FOR CONSTRUCTION
Sheet No.
CD-2