

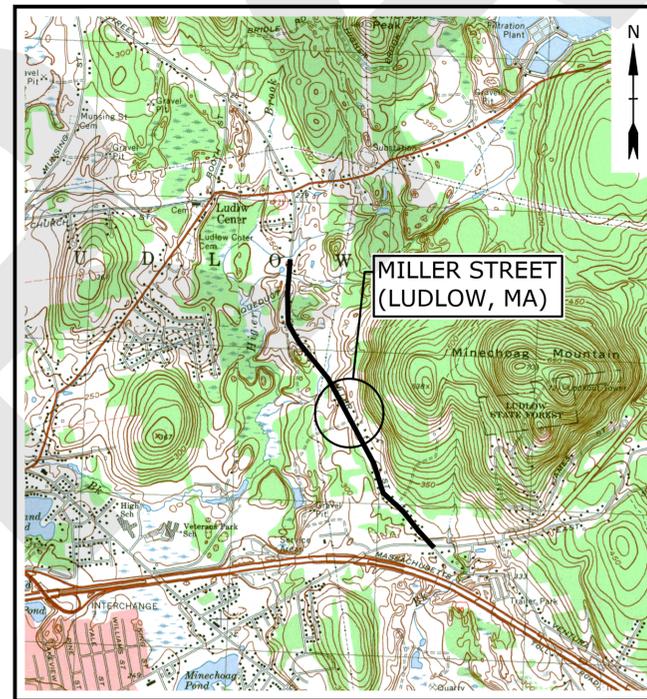
TOWN OF WILBRAHAM, MASSACHUSETTS MILLER STREET WATER MAIN REPLACEMENT PROJECT - PHASE 1

LOCATION: LUDLOW, MA
OWNER: WILBRAHAM, MA

90% DESIGN
FEBRUARY 2026

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	G-001	COVER SHEET
2	G-002	LEGEND & ABBREVIATIONS AND SHEET LAYOUT
3	G-003	GENERAL NOTES
4	C-101	CORROSION CONTROL FACILITY INTERCONNECTION
5	C-102	MILLER STREET WATER MAIN LAYOUT STA 0+00 TO STA 10+00
6	C-103	MILLER STREET WATER MAIN LAYOUT STA 10+00 TO STA 20+00
7	C-104	MILLER STREET WATER MAIN LAYOUT STA 20+00 TO STA 30+00
8	C-105	MILLER STREET WATER MAIN LAYOUT STA 30+00 TO STA 40+00
9	C-106	MILLER STREET WATER MAIN LAYOUT STA 40+00 TO STA 50+00
10	C-107	MILLER STREET WATER MAIN LAYOUT STA 50+00 TO STA 60+00
11	C-108	MILLER STREET WATER MAIN LAYOUT STA 60+00 TO STA 70+00
12	C-501	CIVIL DETAILS - 1
13	C-502	CIVIL DETAILS - 2
14	C-503	CIVIL DETAILS - 3
15	C-504	TRAFFIC MANAGEMENT PLAN
16	C-505	POTENTIAL TRAFFIC CONTROL AND DETOUR PLAN

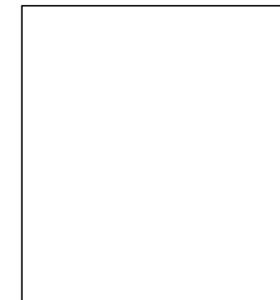
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CONSTRUCTED
IN 2026



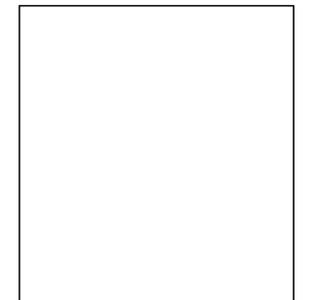
SITE LOCATION MAP
SCALE: 1" = 2000'

PREPARED BY:

Tighe & Bond



JEFFREY FAULKNER, PE



CASSANDRA LAROCHELLE, PE

PREPARED FOR:

TOWN OF WILBRAHAM

TONYA CAPPARELLO, PE, DIRECTOR OF PUBLIC WORKS
DENA GROCHMAL, ENGINEER/GIS COORDINATOR
VINNIE PAFUMI, WATER SUPERINTENDENT

BOARD OF WATER COMMISSIONERS

JAMIE DUNBAR, CHAIRMAN
RIK ALVAREZ
JOHN CALTABINO

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COMPLETE SET 16 SHEETS

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	---	---
PROPERTY LINE ADJACENT	---	---
EASEMENT LINE	---	---
LIMITS OF WORK	---	-----
INTERMEDIATE CONTOURS	---	---
INDEX CONTOURS	--- 25 ---	---
SPOT GRADE	X 141.2	---
STORM DRAIN	SD SD	---
GRAVITY SANITARY SEWER	SS SS	---
WATER MAIN	W W	---
UNDERGROUND ELECTRIC	E E	---
OVERHEAD ELECTRIC	OE OE	---
TELEPHONE SERVICE	T T	---
GAS SERVICE	G G	---
OVERHEAD UTILITY (UNSPECIFIED)	OHW OHW	---
CURB	---	---
EDGE OF PAVEMENT	---	---
DIRT ROAD	---	---
SIDEWALK	---	---
RETAINING WALL	---	---
STONE WALL	---	---
FENCE - CHAIN LINK	X X X X	---
FENCE - WOOD POST	O O O O	---
GUARDRAIL	---	---
TRAFFIC LOOP DETECTOR	---	---
STORM DRAIN STRUCTURES	MANHOLE (D) CATCH BASIN (CB)	---
SANITARY SEWER STRUCTURES	MANHOLE (S) TANK (T)	---
WATER SERVICE STRUCTURES	HYDRANT (H) MANHOLE (U) VALVE (V)	HYDRANT (H) COUPLING (C) VALVE (V) SHUT OFF (SO) AIR RELEASE VALVE (AR)
GAS SERVICE STRUCTURES	MANHOLE (G) VALVE (V)	---
ELECTRIC SERVICE STRUCTURES	UTILITY CO. POLE (P) MANHOLE (E) LIGHT (L)	---
TELECOMMUNICATIONS MANHOLE	(T)	---
TREELINE	---	---
TREE	EVERGREEN (EG) DECIDUOUS (DC) STUMP (ST)	---
RESOURCE AREAS	---	---
VEGETATED WETLAND LIMIT	---	---
TOP OF BANK	---	---
MEAN ANNUAL HIGH WATER	---	---
NHESP PRIORITY HABITAT OF RARE SPECIES	---	---
200-FOOT RIVERFRONT AREA	---	---
LOCAL RESOURCE AREA	---	---
LOCAL BUFFER ZONE - 1	---	---
LOCAL BUFFER ZONE - 2	---	---
WETLANDS WATER COURSE	---	---
WETLAND FLAG	---	---
DEMOLITION / GEOTECHNICAL	---	---
EROSION & SEDIMENT CONTROL	---	---
UTILITY TO BE ABANDONED	---	---
PROPOSED TEST PIT	---	---
GEOPROBE	---	---

ABBREVIATIONS

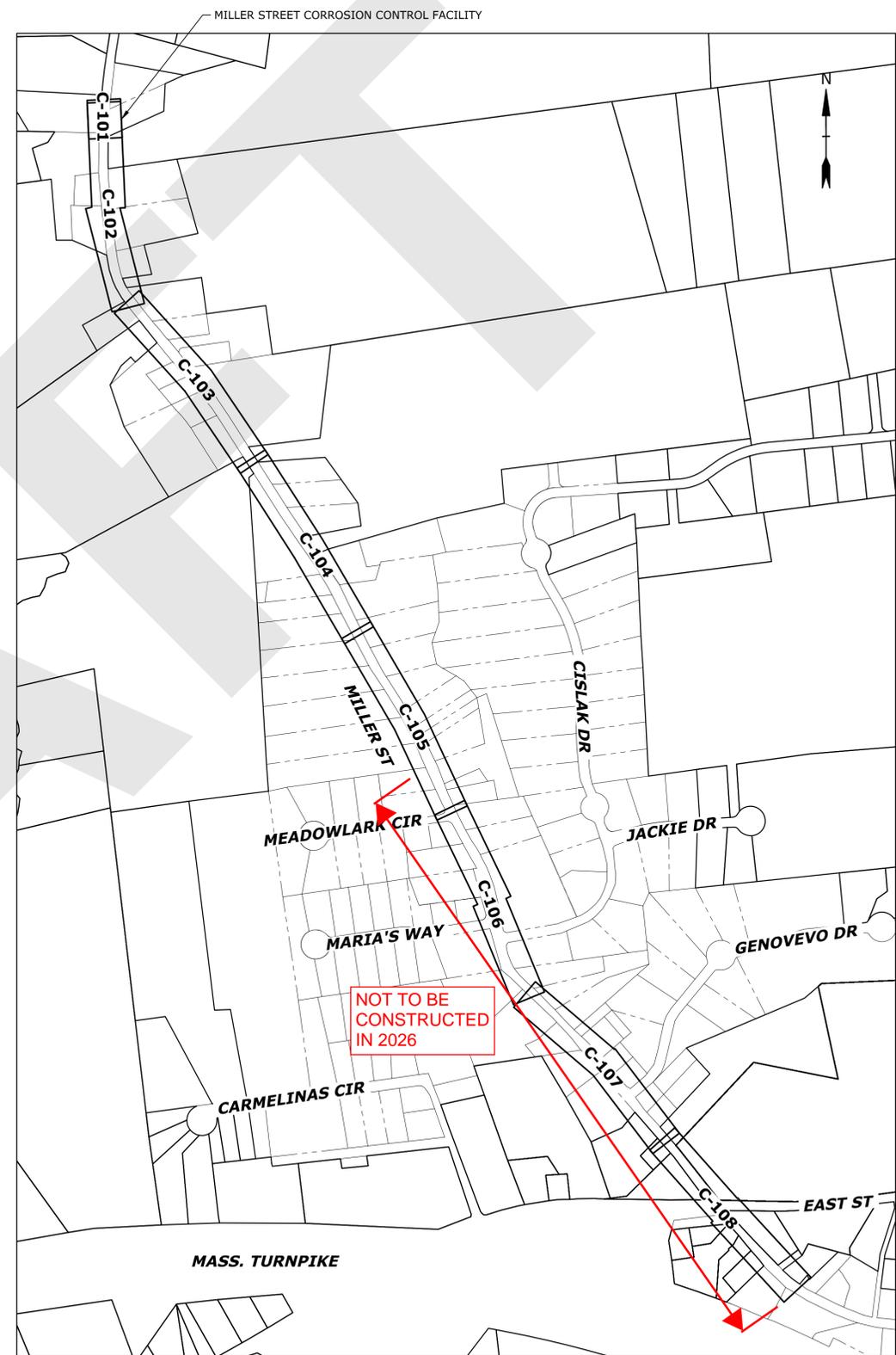
ABDN('D)	ABANDON(ED)	N	NORTH
AC	ASBESTOS CEMENT PIPE	NITC	NOT IN THIS CONTRACT
BC	BITUMINOUS CURB	NTS	NOT TO SCALE
BIT	BITUMINOUS	N/A	NOT APPLICABLE
BL	BASELINE	N/F	NOW OR FORMERLY
BLDG	BUILDING	OC	ON CENTER
CB	CATCH BASIN	OH	OVERHEAD
CEM	CEMENT	PROT	PROTECT
CI	CAST IRON PIPE	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PVMT	PAVEMENT
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	REV	REVISION
DH	DRILL HOLE	ROW	RIGHT OF WAY
DI	DUCTILE IRON PIPE	RT	RIGHT
DIA	DIAMETER	S	SOUTH
DMH	DRAIN MANHOLE	SAN	SANITARY
E	EAST	SCH	SCHEDULE
EG	EXISTING GRADE	SF	SQUARE FOOT
EL/ELEV	ELEVATION	SMH	SEWER MANHOLE
ELEC	ELECTRIC	STA	STATION
EMH	ELECTRIC MANHOLE	STL	STEEL
EOP	EDGE OF PAVEMENT	STRM	STORM
EXIST	EXISTING	T	TANGENT LENGTH
FES	FLARED END SECTION	TC	TOP OF CURB
FF	FINISH FLOOR	TP	TEST PIT
FM	FORCE MAIN	TYP	TYPICAL
G	GAS	UP	UTILITY POLE
GG	GAS GATE	W	WATER
GRAN	GRANITE	WG	WATER GATE
HDPE	HIGH DENSITY POLYETHYLENE	WV	WATER VALVE
HMA	HOT MIX ASPHALT		
HYD	HYDRANT		
IN	INCHES		
INV	INVERT		
IP	IRON PIN		
L	LENGTH OF CURB		
LT	LEFT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MJ	MECHANICAL JOINT		

ABBREVIATIONS CONT'D

N	NORTH
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
N/F	NOW OR FORMERLY
OC	ON CENTER
OH	OVERHEAD
PROT	PROTECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
REV	REVISION
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SMH	SEWER MANHOLE
STA	STATION
STL	STEEL
STRM	STORM
T	TANGENT LENGTH
TC	TOP OF CURB
TP	TEST PIT
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
WV	WATER VALVE

UTILITY CONTACTS

WILBRAHAM DPW	(413) 596-2800
LUDLOW DPW	(413) 583-5625
BUCKEYE PETROLEUM	(413) 583-4033
EVERSOURCE TRANSMISSION	(860) 665-6926
MMWEC	(413) 308-1437



SHEET LAYOUT
SCALE 1" = 400'



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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

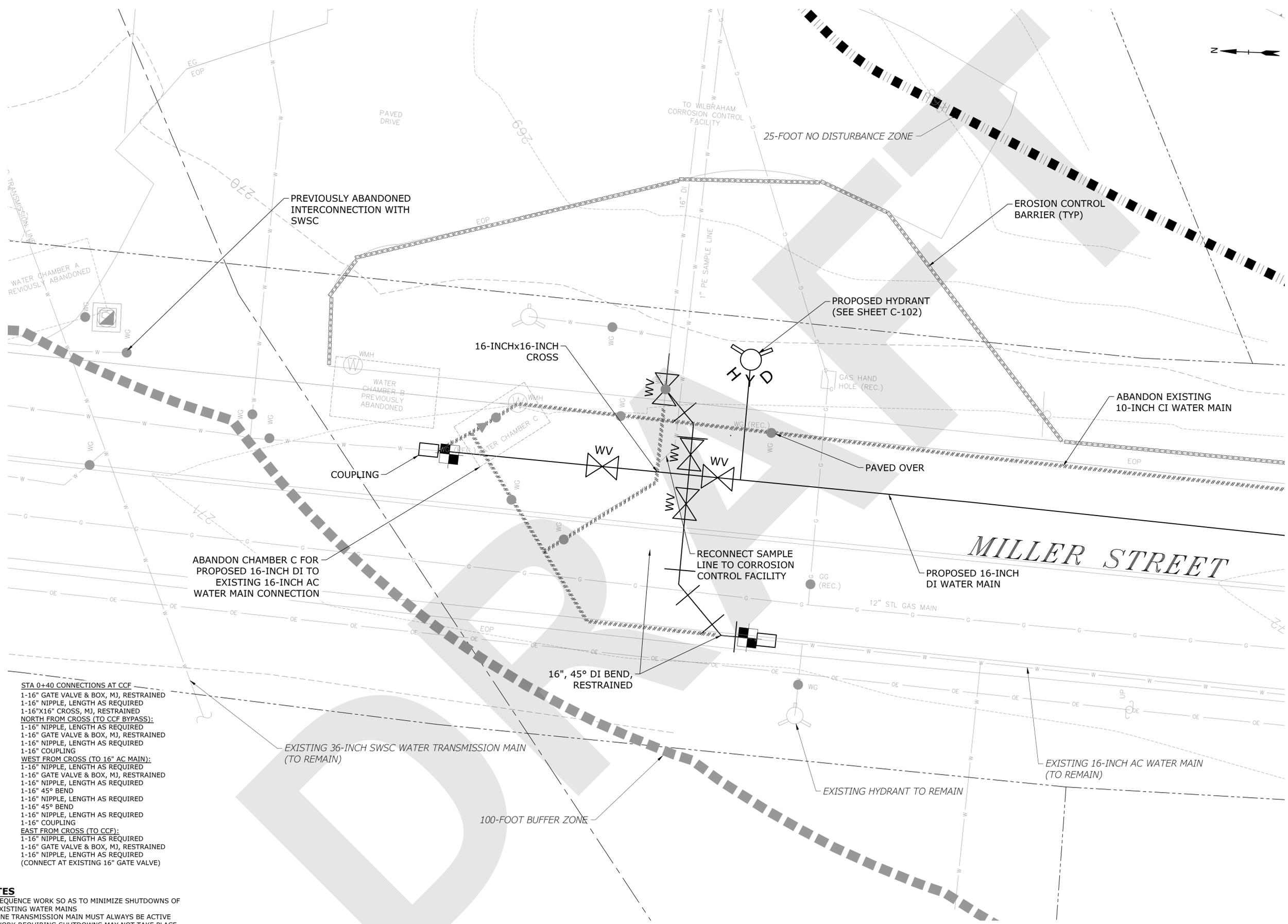
MARK	DATE	DESCRIPTION
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1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
DATE: JANUARY 2026
FILE: W1929-036_Notes.dwg
DRAWN BY: J. BOYNE, C. HESKETH
DESIGNED BY: S. NYSER, C. LAROCHELLE
CHECKED BY: M. KIRK, C. LAROCHELLE
APPROVED BY: J. FAULKNER

LEGEND & ABBREVIATIONS AND SHEET LAYOUT

SCALE: AS SHOWN

G-002
SHEET 2 OF 16



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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

MARK	DATE	DESCRIPTION
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1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets_2.dwg
 DRAWN BY: J. BOYNE, C. BRESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER JAF

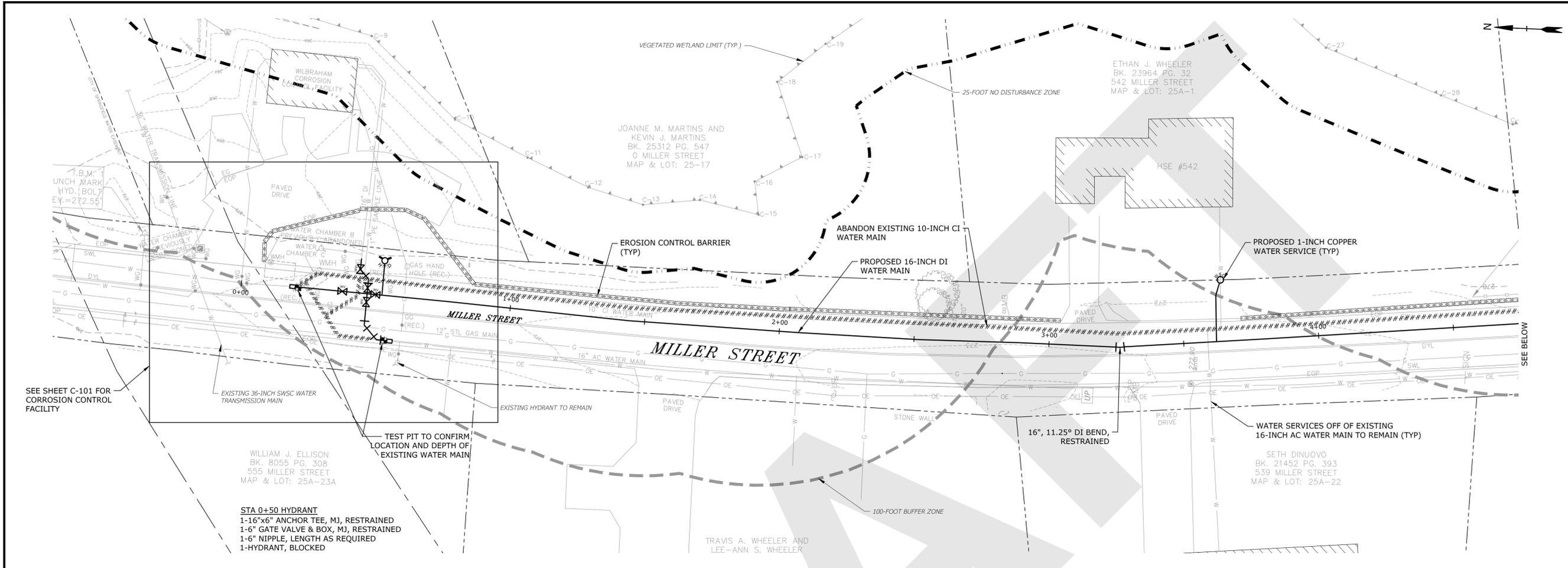
CORROSION CONTROL FACILITY INTERCONNECTION

SCALE: 1" = 5'

C-101
SHEET 4 OF 16

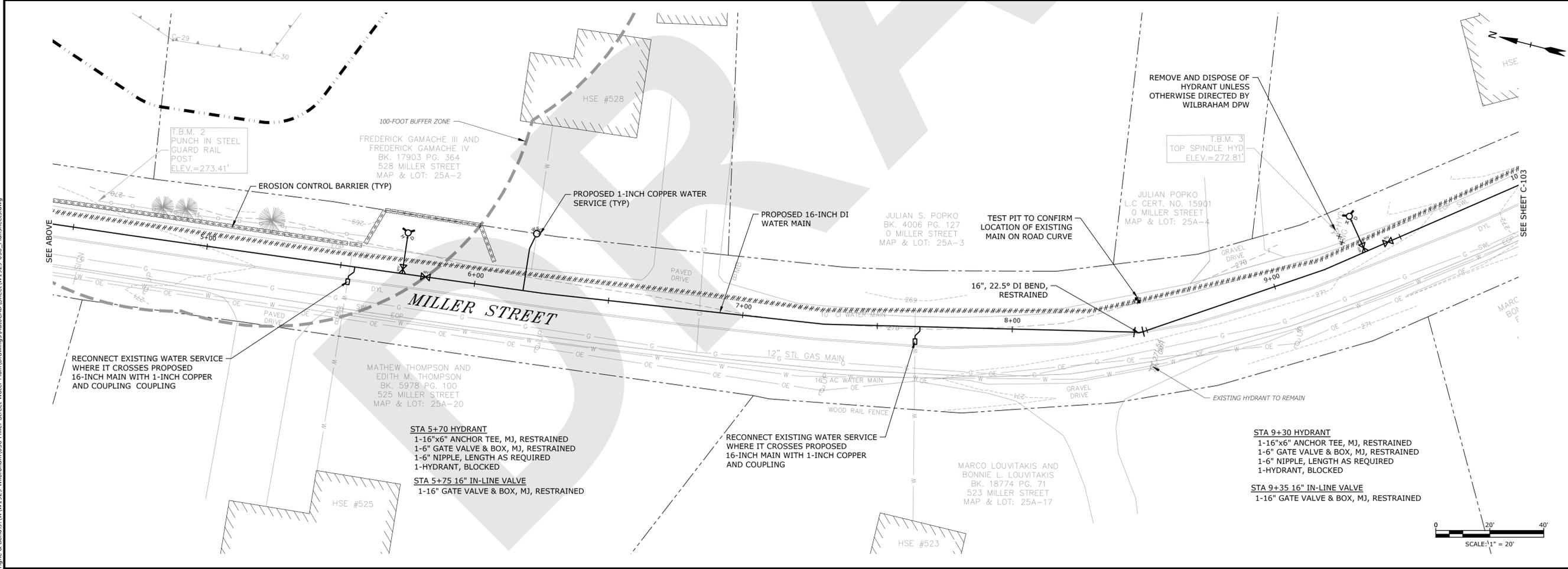
- NOTES**
- SEQUENCE WORK SO AS TO MINIMIZE SHUTDOWNS OF EXISTING WATER MAINS
 - ONE TRANSMISSION MAIN MUST ALWAYS BE ACTIVE
 - WORK REQUIRING SHUTDOWNS MAY NOT TAKE PLACE WITHOUT PRIOR AUTHORIZATION OF THE WILBRAHAM WATER DEPARTMENT
 - PROVIDE WILBRAHAM WATER DEPARTMENT MINIMUM 2 WEEKS NOTICE FOR SHUTDOWN REQUESTS
 - REFER TO SPECIFICATION SECTION 13285 FOR DETAILS REGARDING CONNECTION ACTIVITIES INVOLVING AC PIPE
- STA 0+40 CONNECTIONS AT CCF**
 1-16" GATE VALVE & BOX, MJ, RESTRAINED
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16"x16" CROSS, MJ, RESTRAINED
NORTH FROM CROSS (TO CCF BYPASS):
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" GATE VALVE & BOX, MJ, RESTRAINED
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" COUPLING
WEST FROM CROSS (TO 16" AC MAIN):
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" GATE VALVE & BOX, MJ, RESTRAINED
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" 45° BEND
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" 45° BEND
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" COUPLING
EAST FROM CROSS (TO CCF):
 1-16" NIPPLE, LENGTH AS REQUIRED
 1-16" GATE VALVE & BOX, MJ, RESTRAINED
 1-16" NIPPLE, LENGTH AS REQUIRED
 (CONNECT AT EXISTING 16" GATE VALVE)

Last Saved: 2/18/2026 9:01am By: Cheskeeth
 Plotted On: Feb 18, 2026 9:01am By: Cheskeeth
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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

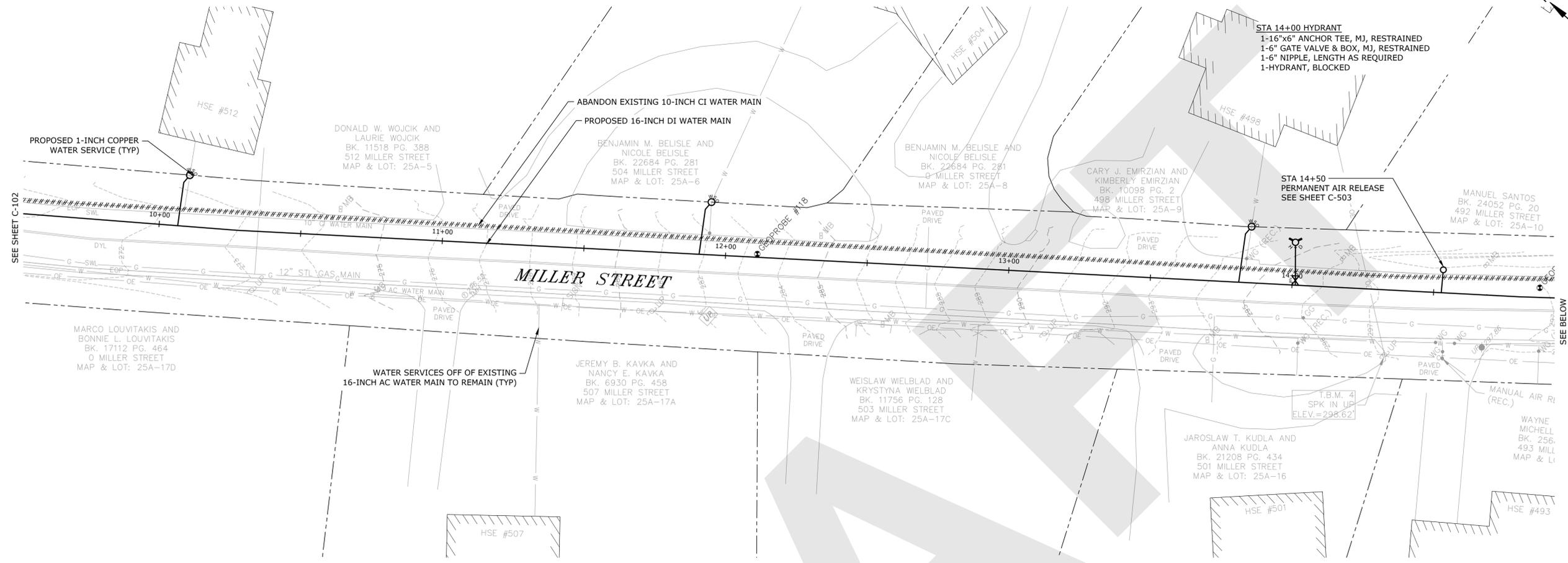
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PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 0+00 TO STA 10+00

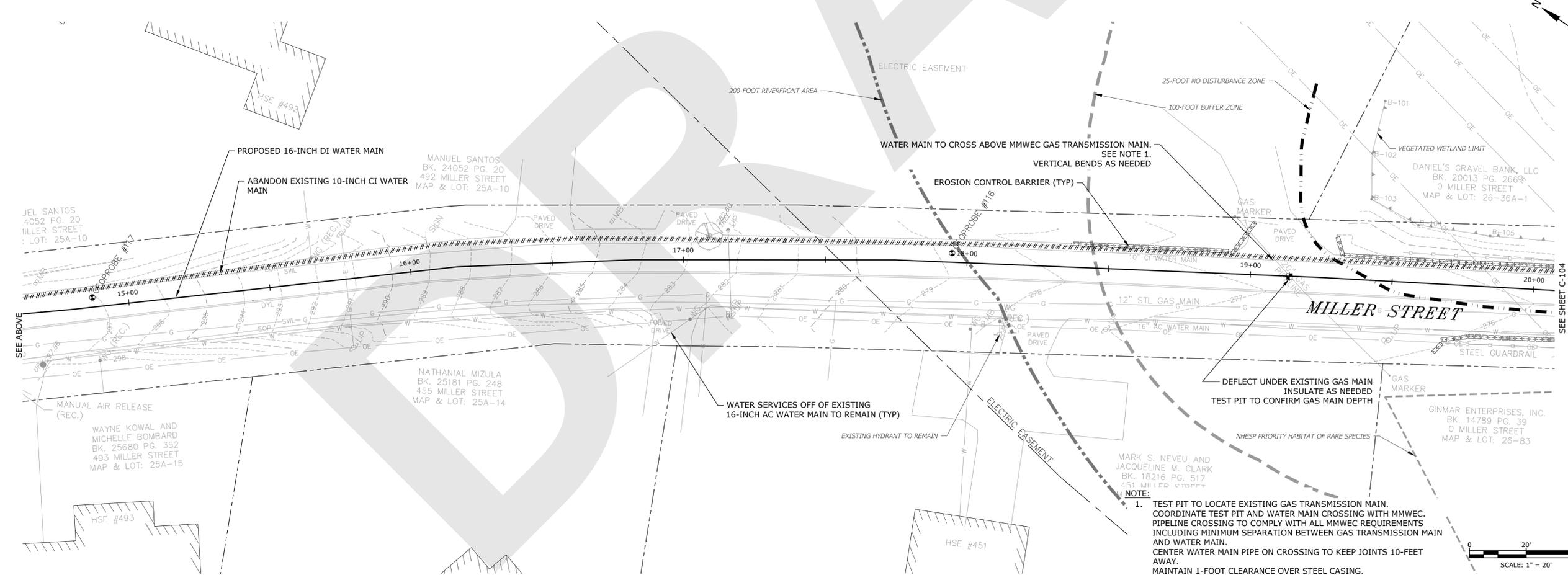
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NOTE:
 1. TEST PIT TO LOCATE EXISTING GAS TRANSMISSION MAIN. COORDINATE TEST PIT AND WATER MAIN CROSSING WITH MMWEC. PIPELINE CROSSING TO COMPLY WITH ALL MMWEC REQUIREMENTS INCLUDING MINIMUM SEPARATION BETWEEN GAS TRANSMISSION MAIN AND WATER MAIN. CENTER WATER MAIN PIPE ON CROSSING TO KEEP JOINTS 10-FEET AWAY. MAINTAIN 1-FOOT CLEARANCE OVER STEEL CASING. EXPECTED 6.7-FOOT ROAD GRADE TO TOP OF STEEL CASING.

Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

MARK	DATE	DESCRIPTION
2	2/18/2026	90% DESIGN
1	1/16/2026	75% DESIGN

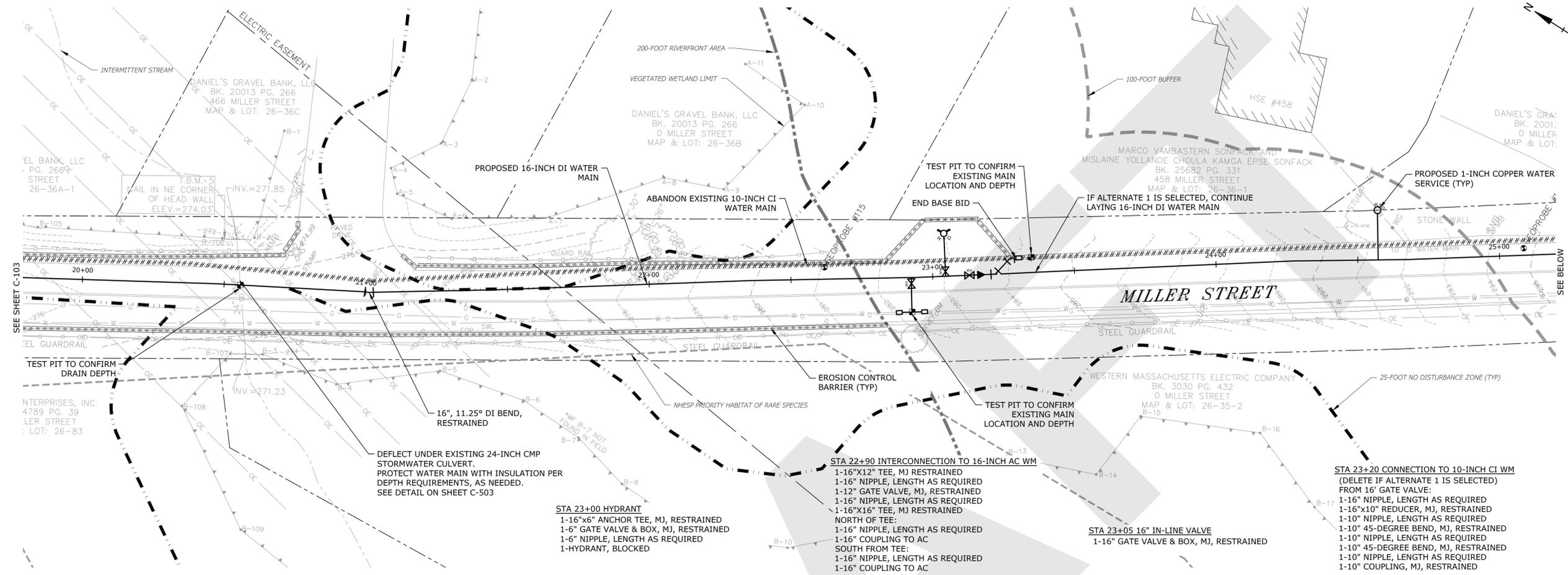
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 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 10+00 TO STA 20+00

SCALE: 1" = 20'

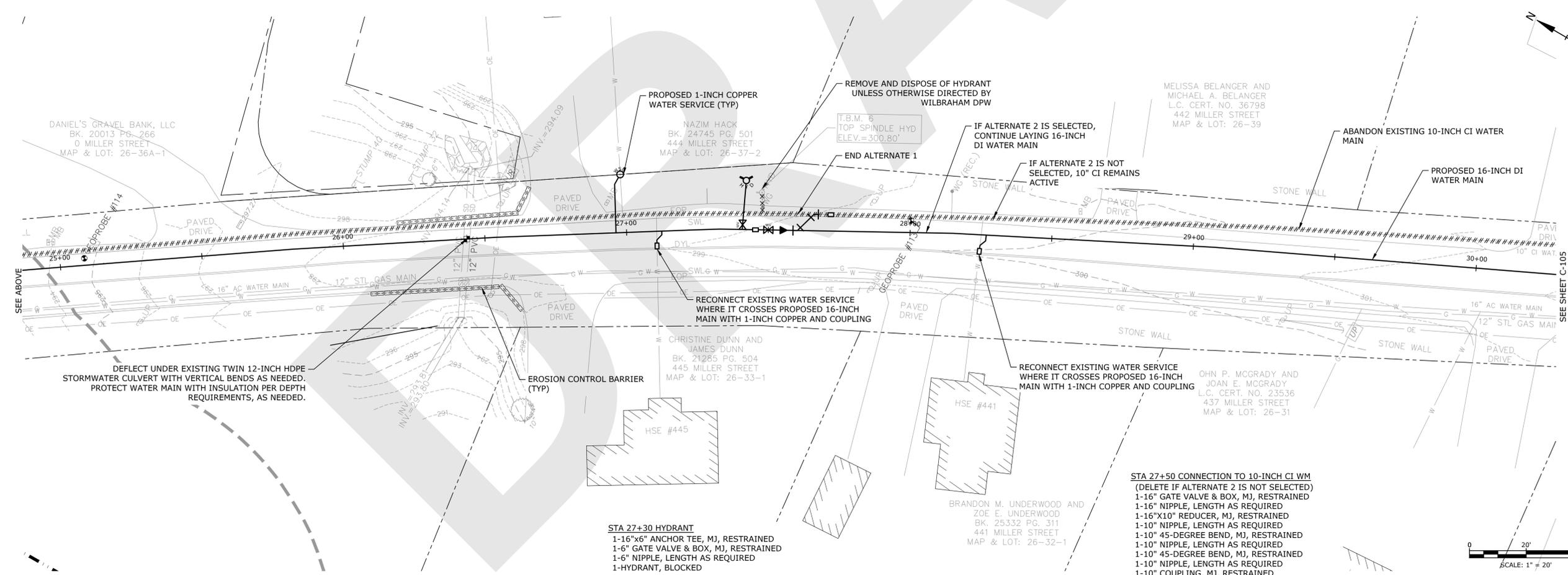
C-103
 SHEET 6 OF 16

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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

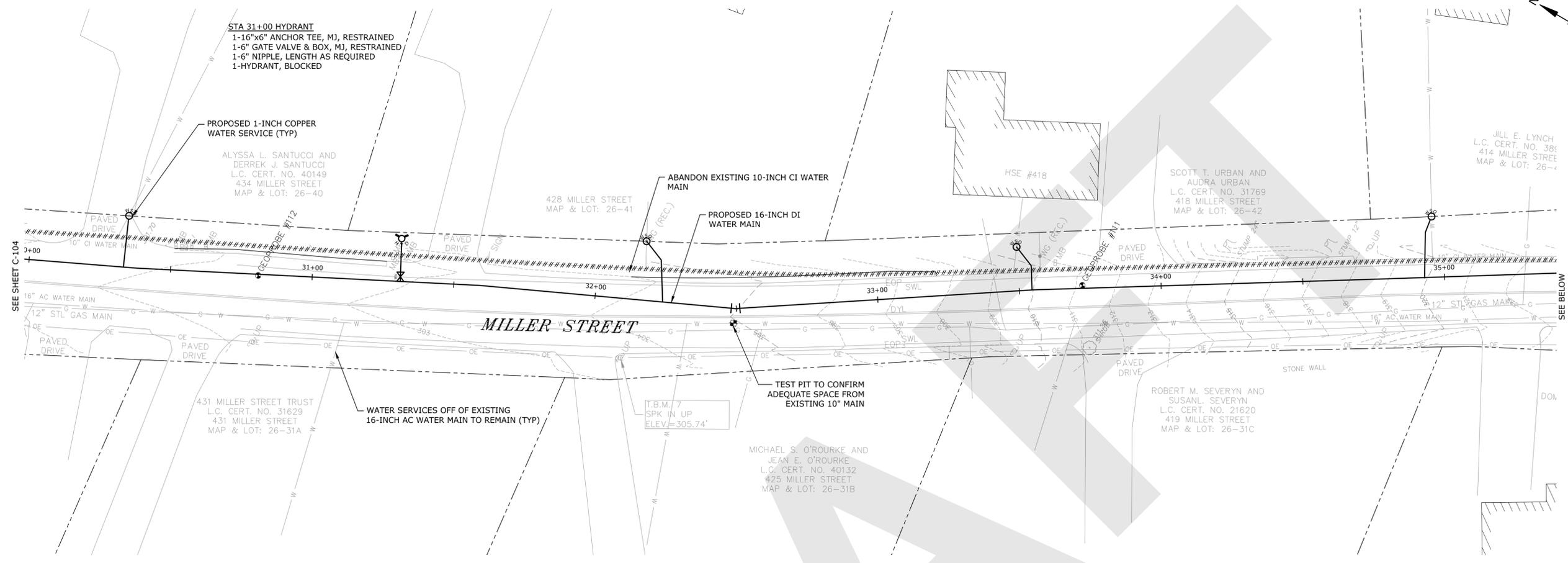
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1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 20+00 TO STA 30+00

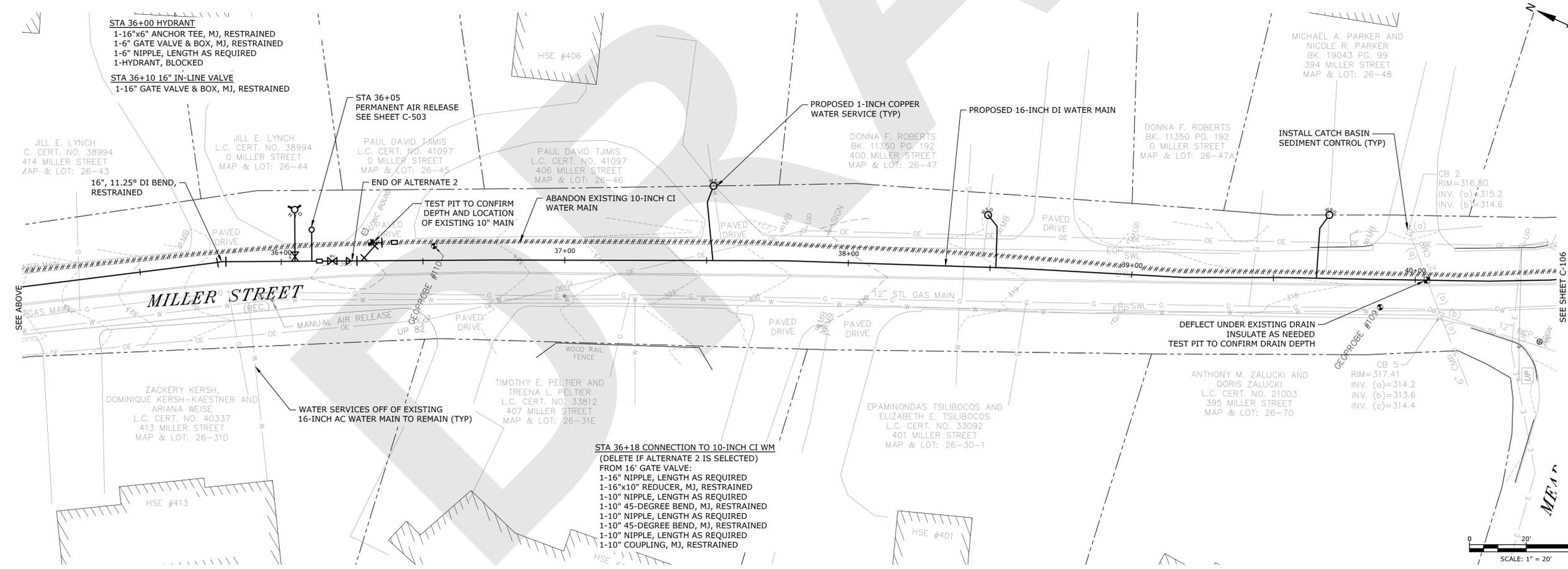
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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

MARK	DATE	DESCRIPTION
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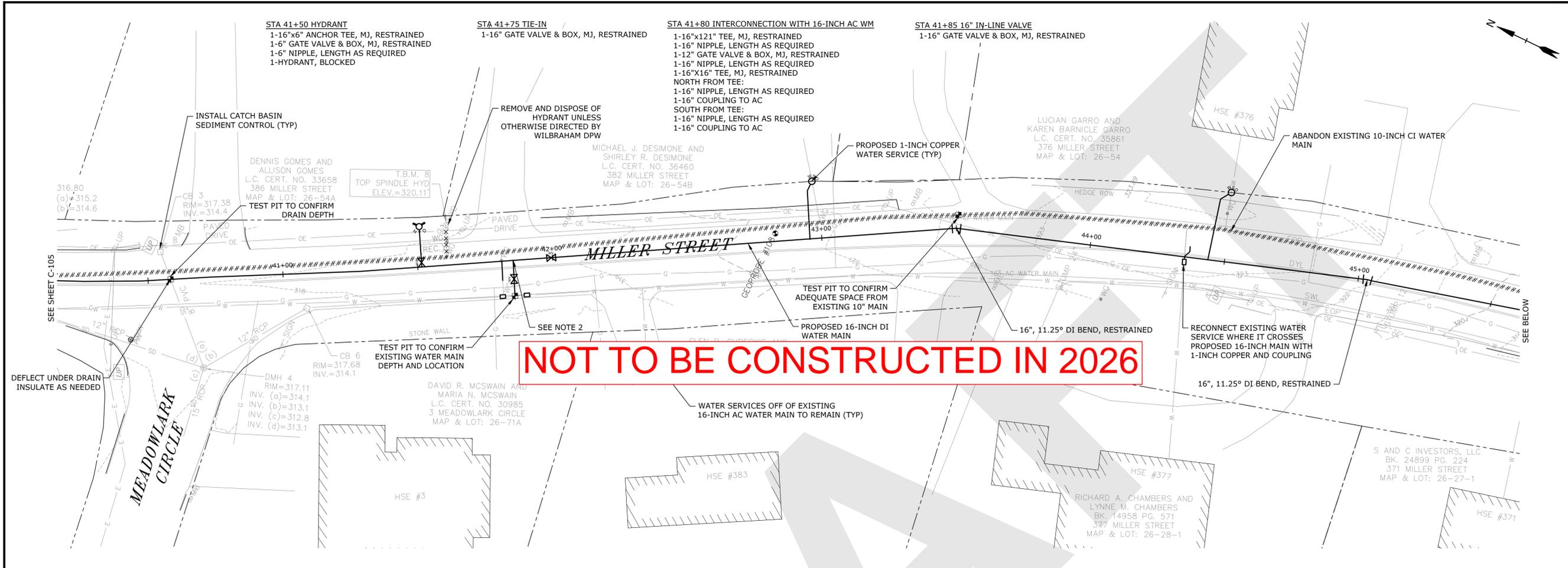
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 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 30+00 TO STA 40+00

SCALE: 1" = 20'

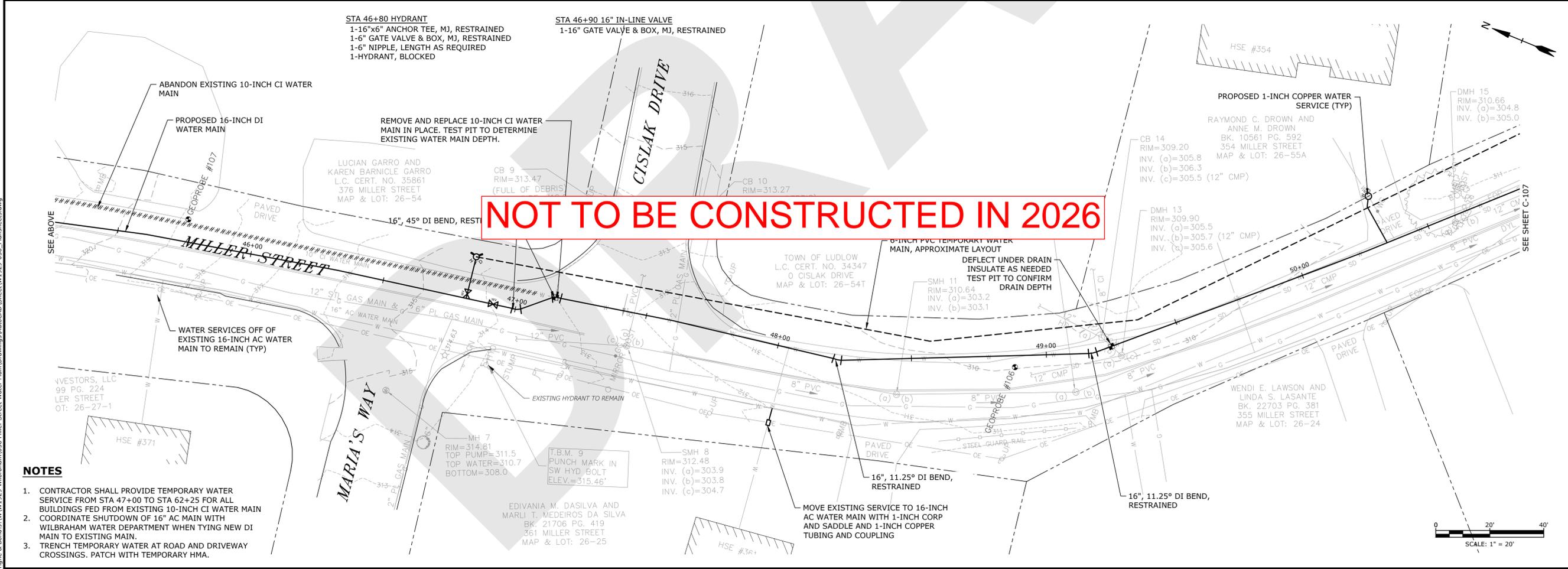
C-105
SHEET 8 OF 16

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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

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PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSEK, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

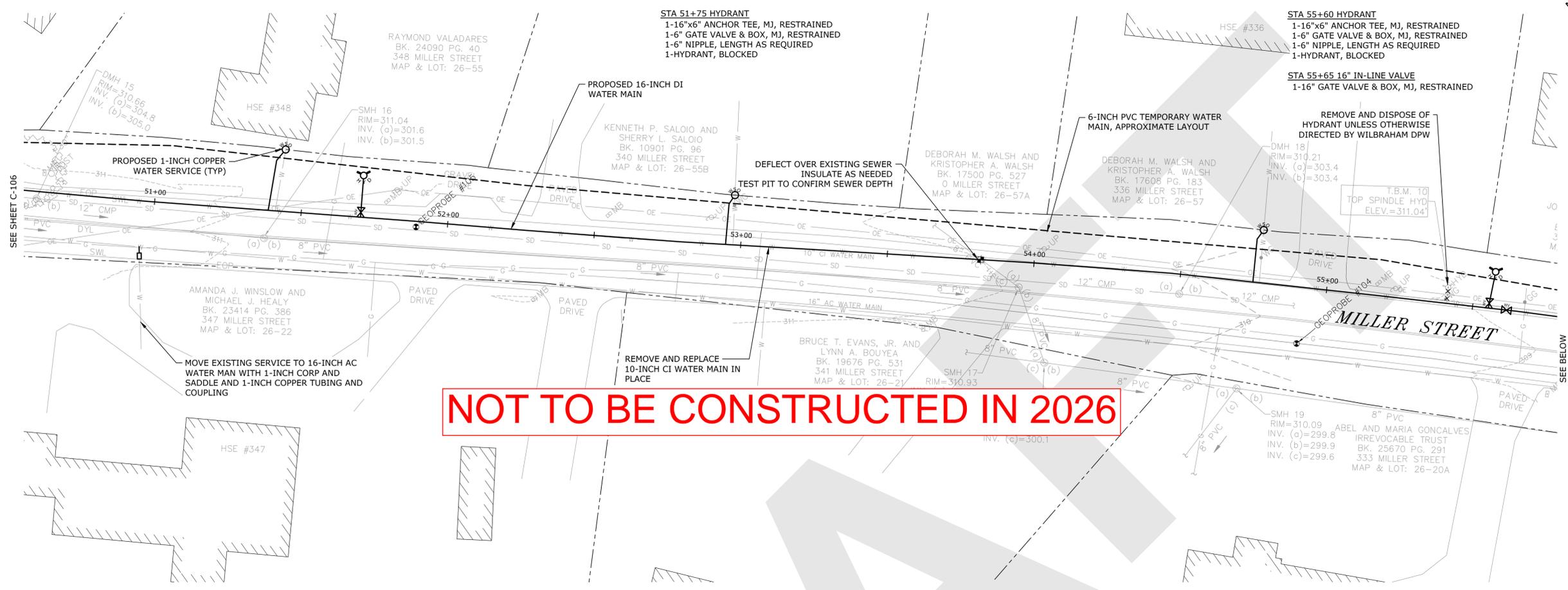
MILLER STREET WATER MAIN LAYOUT STA 40+00 TO STA 50+00

SCALE: 1" = 20'

C-106
SHEET 9 OF 16

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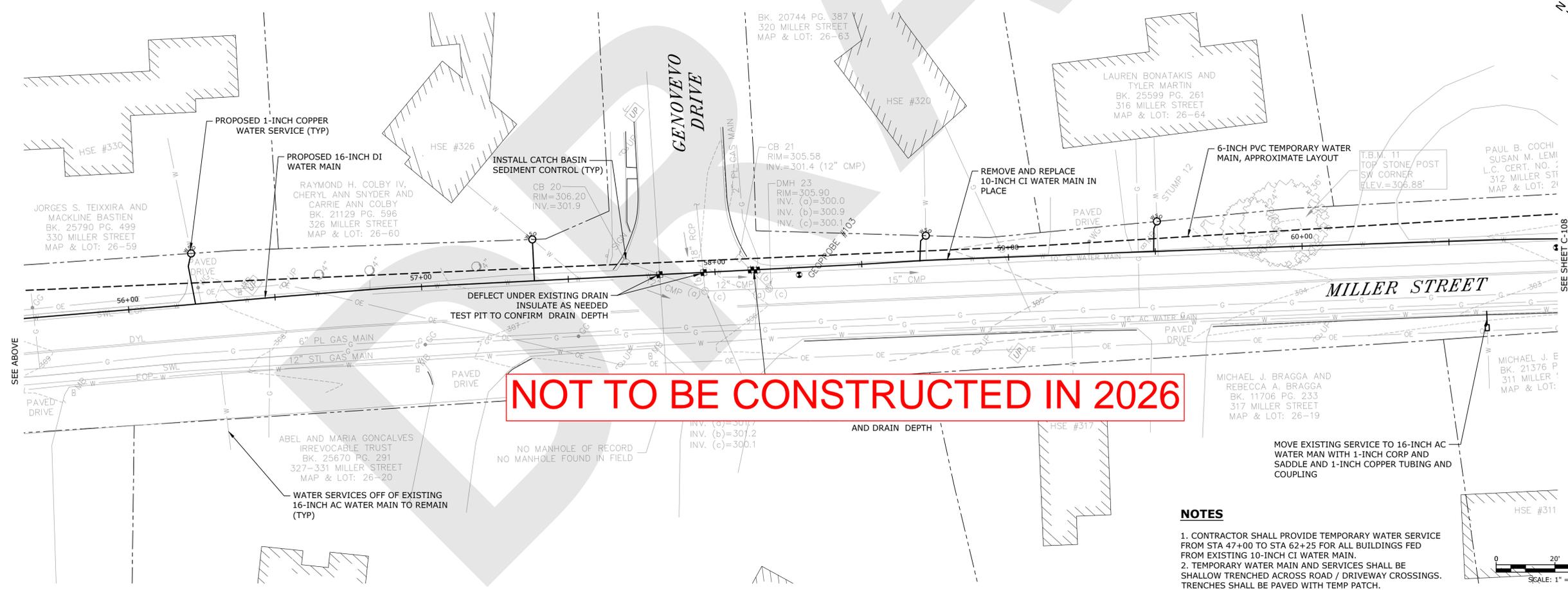
- NOTES**
- CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE FROM STA 47+00 TO STA 62+25 FOR ALL BUILDINGS FED FROM EXISTING 10-INCH CI WATER MAIN
 - COORDINATE SHUTDOWN OF 16" AC MAIN WITH WILBRAHAM WATER DEPARTMENT WHEN TYING NEW DI MAIN TO EXISTING MAIN.
 - TRENCH TEMPORARY WATER AT ROAD AND DRIVEWAY CROSSINGS. PATCH WITH TEMPORARY HMA.



NOT TO BE CONSTRUCTED IN 2026

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NOT TO BE CONSTRUCTED IN 2026

- NOTES**
- CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE FROM STA 47+00 TO STA 62+25 FOR ALL BUILDINGS FED FROM EXISTING 10-INCH CI WATER MAIN.
 - TEMPORARY WATER MAIN AND SERVICES SHALL BE SHALLOW TRENCHED ACROSS ROAD / DRIVEWAY CROSSINGS. TRENCHES SHALL BE PAVED WITH TEMP PATCH.

Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

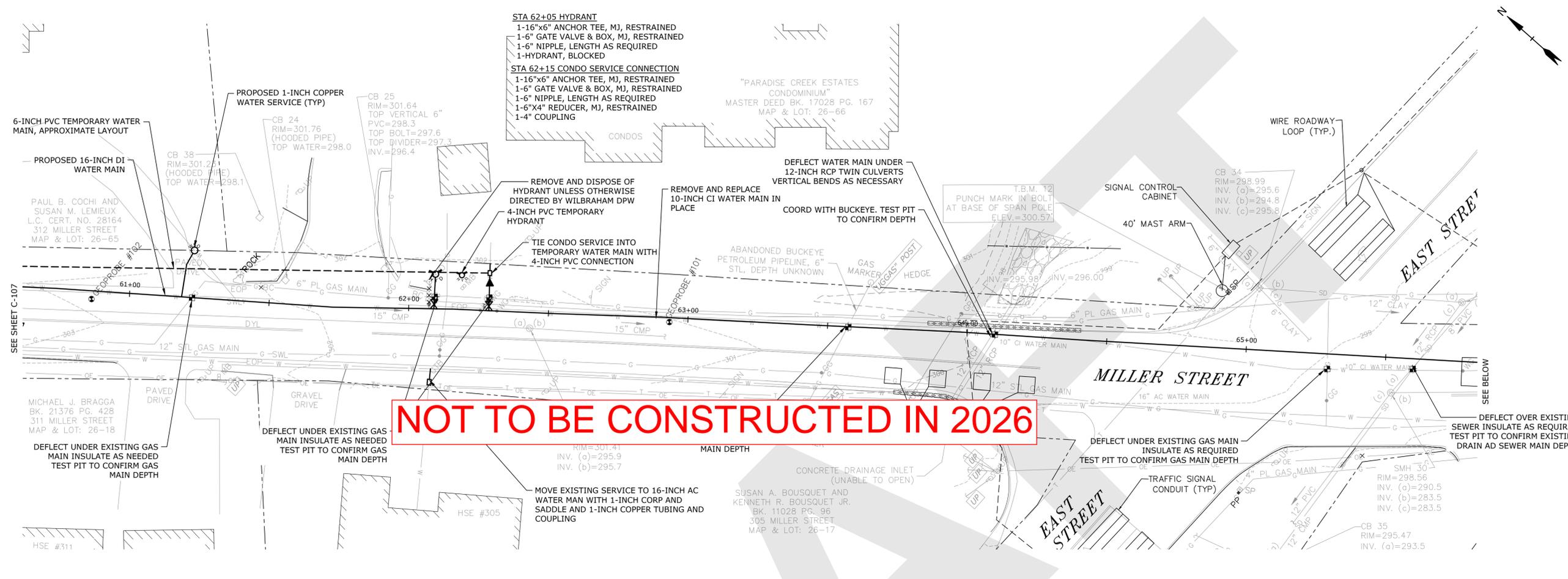
MARK	DATE	DESCRIPTION
2	2/18/2026	90% DESIGN
1	1/16/2026	75% DESIGN

PROJECT NO:	W1929-036
DATE:	JANUARY 2026
FILE:	W1929-036_Plansheets.dwg
DRAWN BY:	J. BOYNE, C. HESKETH
DESIGNED BY:	S. NYSER, C. LAROCHELLE
CHECKED BY:	M. KIRK, C. LAROCHELLE
APPROVED BY:	J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 50+00 TO STA 60+00

SCALE: 1" = 20'

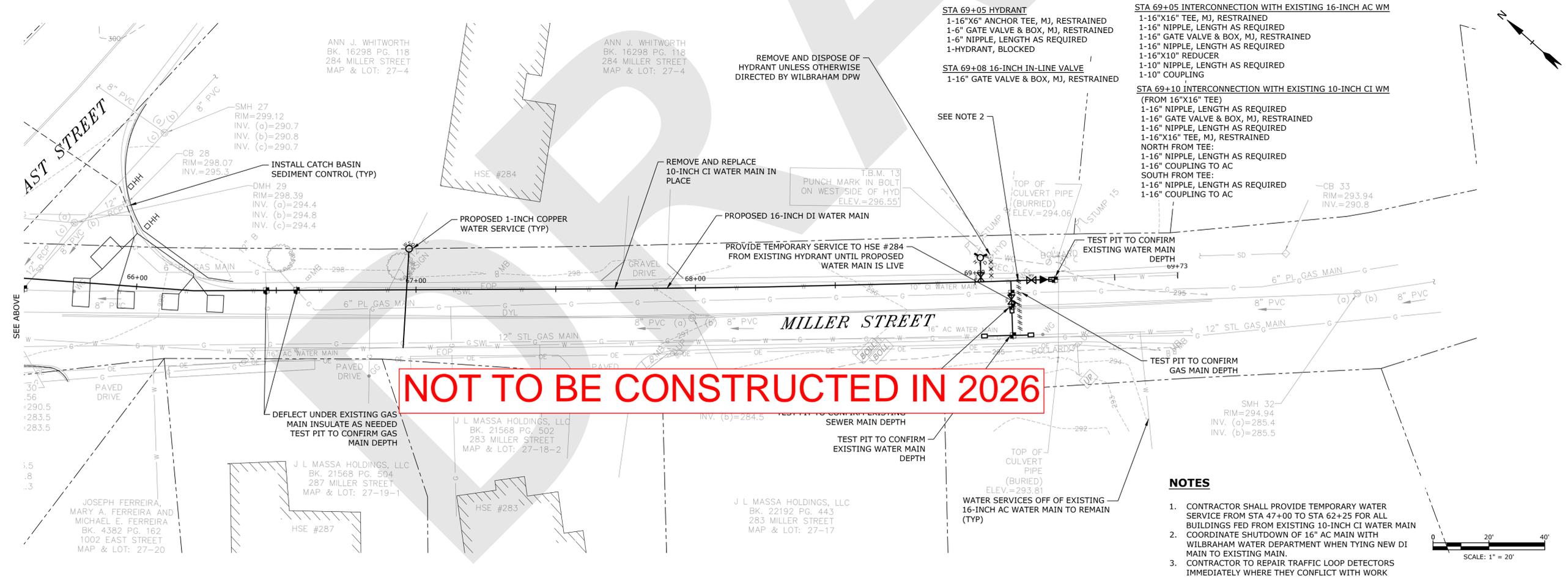
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NOT TO BE CONSTRUCTED IN 2026

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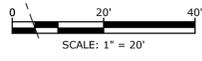
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NOT TO BE CONSTRUCTED IN 2026

NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE FROM STA 47+00 TO STA 62+25 FOR ALL BUILDINGS FED FROM EXISTING 10-INCH CI WATER MAIN COORDINATE SHUTDOWN OF 16" AC MAIN WITH WILBRAHAM WATER DEPARTMENT WHEN TYING NEW DI MAIN TO EXISTING MAIN.
2. CONTRACTOR TO REPAIR TRAFFIC LOOP DETECTORS IMMEDIATELY WHERE THEY CONFLICT WITH WORK



Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

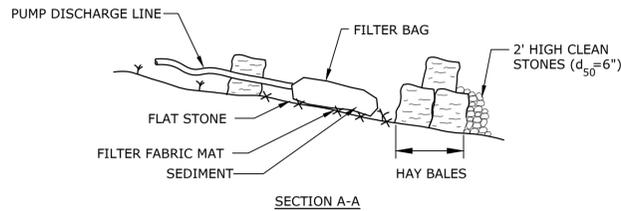
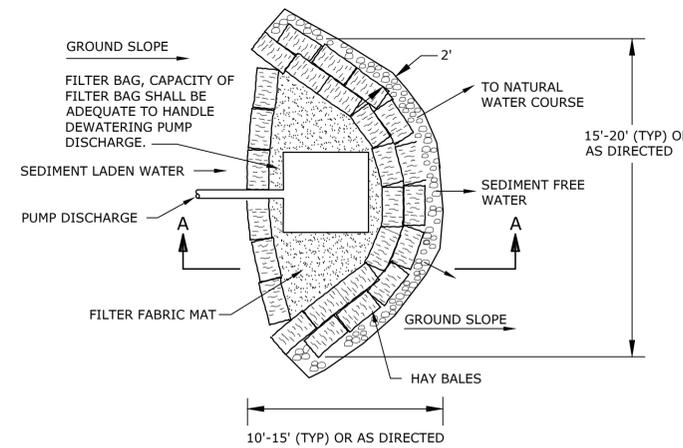
MARK	DATE	DESCRIPTION
2	2/18/2026	90% DESIGN
1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036_Plansheets.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

MILLER STREET WATER MAIN LAYOUT STA 60+00 TO STA 70+00

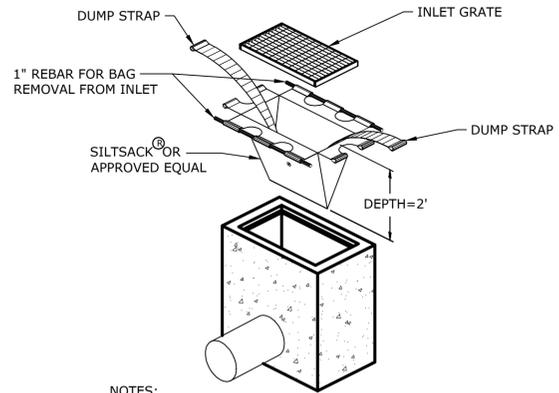
SCALE: 1" = 20'

Last Saved: 2/18/2026 9:03am By: Chesketh
 Plotted On: Feb 18, 2026 9:03am By: Chesketh
 Tighe & Bond \\CAM\W1929-Wilbraham\036 Miller Street Water Main Drawings\AutoCAD\Sheet\W1929-036 - Plansheets.dwg



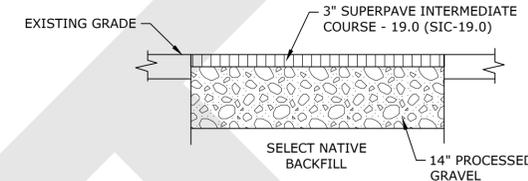
NOTE:
A FILTER BAG IS REQUIRED FOR DEWATERING ACTIVITIES LOCATED OUTSIDE OF THE REGULATED AREA. THE GROUNDWATER DISCHARGE FILTER BAG WITH HAY BALES SHALL BE INSTALLED FOR ANY DEWATERING ACTIVITY LOCATED WITHIN THE 100' WETLAND REGULATED AREA.

DEWATERING DISCHARGE FILTER
NO SCALE

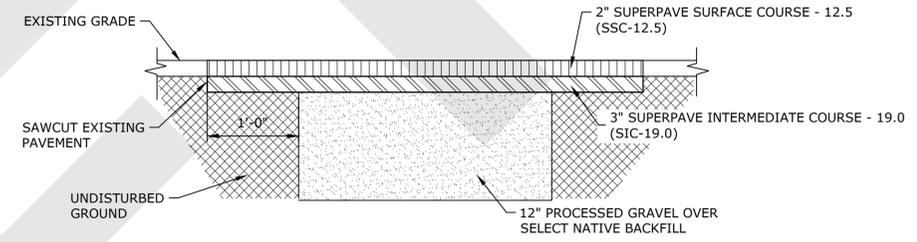


- NOTES:**
1. SILTSACKS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. OR EQUAL.
 2. SILTSACKS FOR TRENCH GRATE WILL MATCH OPENING LENGTH AS REQUIRED.
 3. SILTSACKS SHALL BE CLEANED OUT AND MAINTAINED IN GOOD WORKING ORDER PER MFR RECOMMENDATIONS.

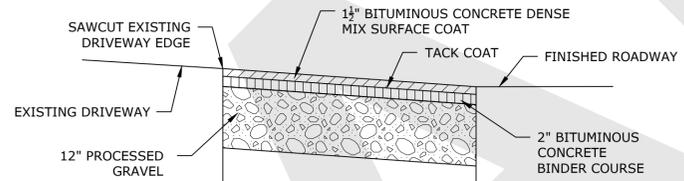
CATCH BASIN SEDIMENTATION CONTROL
NO SCALE



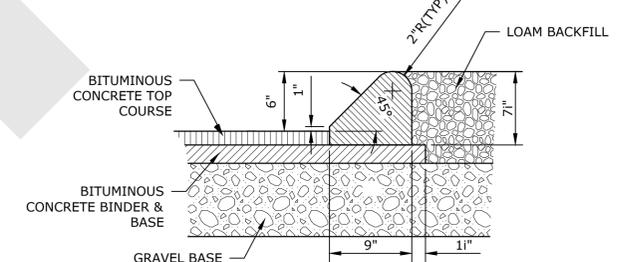
TEMPORARY TRENCH REPAIR WITHIN PAVED ROADWAY
NO SCALE



PERMANENT TRENCH REPAIR WITHIN EXISTING PAVED ROADWAYS
NO SCALE



DRIVEWAY APRON REPLACEMENT
NO SCALE



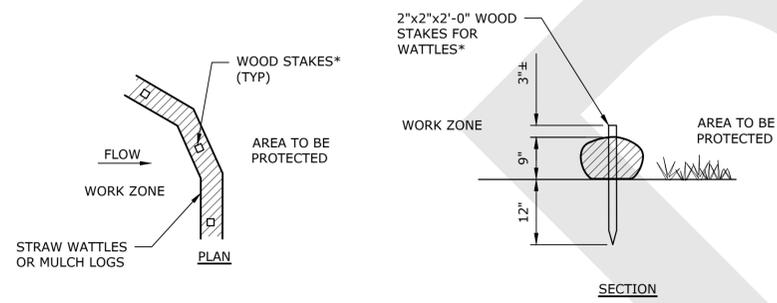
NOTE:
IF CURB ABUTS CEMENT CONCRETE OR BITUMINOUS CONCRETE SIDEWALK, SAW CUT EDGE OF EXISTING SIDEWALK PARALLEL WITH PROPOSED CURB. FILL VOID BETWEEN EXISTING SIDEWALK AND INSTALLED CURB WITH BITUMINOUS CONCRETE DENSE MIX.

BITUMINOUS CONCRETE CURB - TYPE 2
NO SCALE

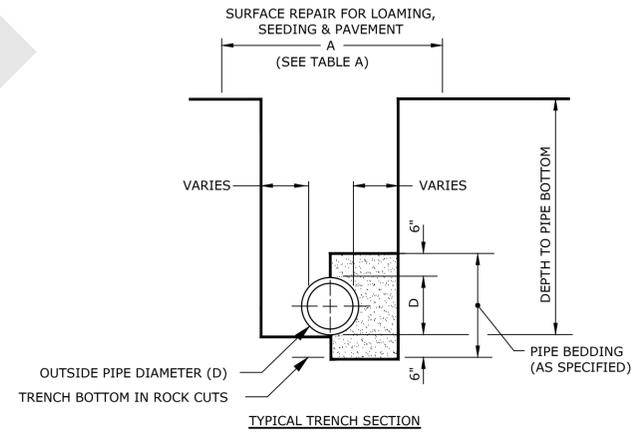
TABLE A - MAXIMUM SURFACE REPAIR PAY WIDTHS (SEE NOTE)	
OUTSIDE PIPE DIAMETER 0 - 24"	
TEMPORARY PAVEMENT 6'-6" MAX.	PERMANENT PAVEMENT & LOAMING & SEEDING 8'-6" MAX.

NOTE:
THE PAYLINE DIMENSIONS SHOWN REPRESENT THE MAXIMUM PAYLINE LIMITS TO BE PAID. WHEN THE ACTUAL SURFACE REPAIR OR TRENCH WIDTH IS LESS, THE ACTUAL WIDTH SHALL BE PAID FOR AT THE APPLICABLE UNIT PRICE.

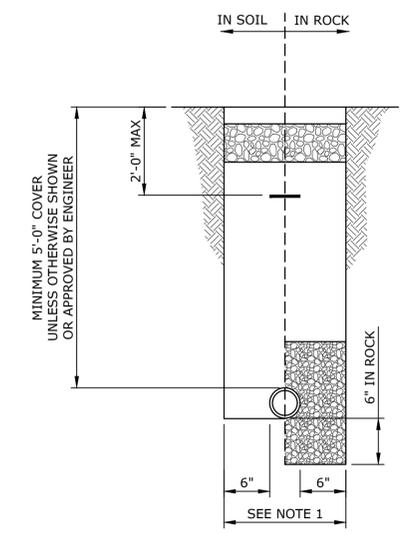
TRENCH PAYLINES
NO SCALE



EROSION CONTROL DETAIL
NO SCALE



TYPICAL TRENCH SECTION



TYPICAL WATER MAIN TRENCH
NO SCALE

NOTES:
1. SEE TRENCH EXCAVATION AND SURFACE REPAIR PAYLINES DETAIL.

90% DESIGN

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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

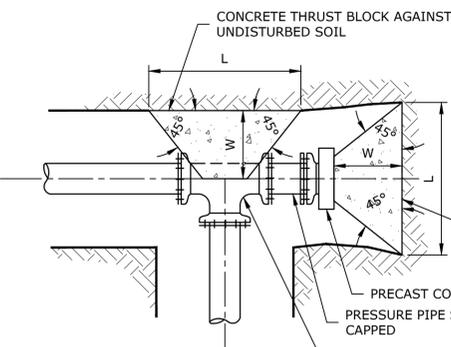
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DESIGNED BY: S. NYSER, C. LAROCHELLE
CHECKED BY: M. KIRK, C. LAROCHELLE
APPROVED BY: J. FAULKNER

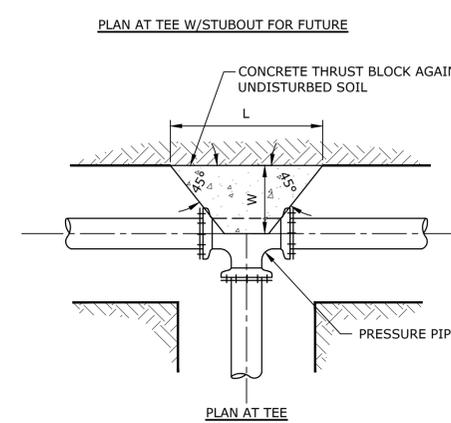
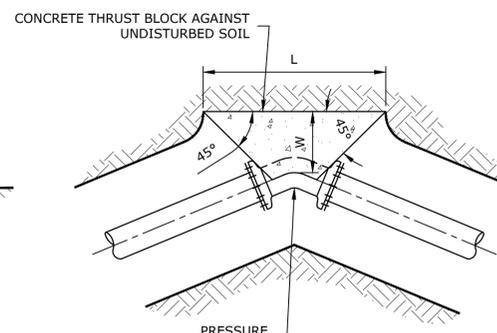
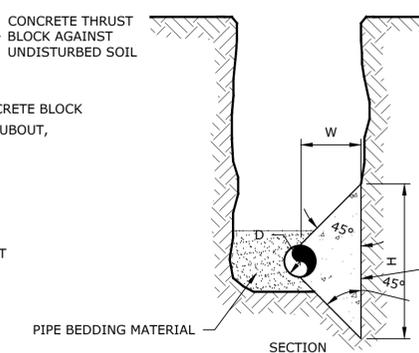
CIVIL DETAILS - 1

SCALE: NO SCALE

C-501
SHEET 12 OF 16



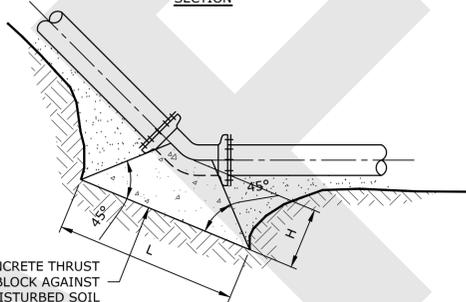
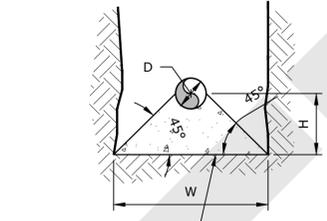
CONCRETE THRUSTBLOCK						
D	45° BEND			90° BEND		
	"L"	"H"	"W"	"L"	"H"	"W"
6	2.9	2.0	1.4	0.7	5.3	2.8
10	7.4	3.4	2.3	1.1	13.7	4.6
16	18.2	5.2	3.5	1.8	33.6	7.2



- NOTES:**
- DIMENSIONS SHOWN CALCULATED PER 200 PSI INTERNAL PIPE PRESSURE FOR SOIL BEARING LOADS OF 150 PSF.
 - CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE POURED AGAINST UNDISTURBED SOIL.
 - DIMENSIONS L, W, & H MAY BE ADJUSTED TO MEET FIELD CONDITIONS PROVIDED THE BEARING AREA REMAINS UNCHANGED.
 - THE HEIGHT OF THE BLOCK (H) SHALL BE LESS THAN OR EQUAL TO HALF THE TRENCH DEPTH.
 - POLYETHYLENE SHEETING SHALL BE PLACED OVER MJ FITTINGS TO PREVENT DIRECT CONTACT BETWEEN CONCRETE AND THE FITTING.

CONCRETE THRUST BLOCK FOR HORIZONTAL BENDS AND TEES
NO SCALE

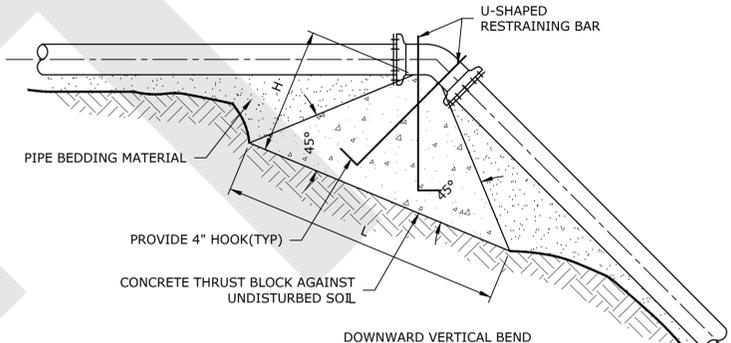
UPWARD VERTICAL BENDS				
D	BEARING AREA (S.F.)	"H"	"W"	"L"
6	2.9	1.4	0.7	2.0
10	7.4	2.2	1.1	3.4
16	18.2	3.5	1.8	5.2



CONCRETE THRUST BLOCK FOR VERTICAL BENDS
NO SCALE

DOWNWARD VERTICAL BENDS						
D	VOLUME (C.F.)	BEARING AREA (S.F.)	"H"	"L"	"W"	RESTRAINING BAR SIZE
6	52.9	0.7	2.3	4.6	5.0	#4
10	137	1.9	3.7	7.4	5.0	#4
16	336	4.6	5.8	11.6	5.0	#7

* "W" IS ASSUMED TO BE THE WIDTH OF THE TRENCH



- NOTES:**
- DIMENSIONS SHOWN CALCULATED FOR 200 PSI INTERNAL PIPE PRESSURE, SOIL BEARING LOADS OF 150 PSF, BASED ON A 45° BEND.
 - CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE MATERIAL POURED AGAINST UNDISTURBED SOIL.
 - DIMENSIONS L, W, & H MAY BE ADJUSTED TO MEET FIELD CONDITIONS, PROVIDED THE BEARING AREA AND VOLUME REMAIN UNCHANGED.
 - RESTRAINING BARS SHALL BE ASTM A615 GRADE 60 REINFORCING STEEL.
 - THE PORTION OF THE RESTRAINING BARS EXPOSED TO SOIL SHALL BE COATED WITH TWO COATS OF BITUMASTIC MATERIAL.
 - POLYETHYLENE SHEETING SHALL BE PLACED OVER MJ FITTINGS TO PREVENT DIRECT CONTACT BETWEEN CONCRETE AND THE FITTING.

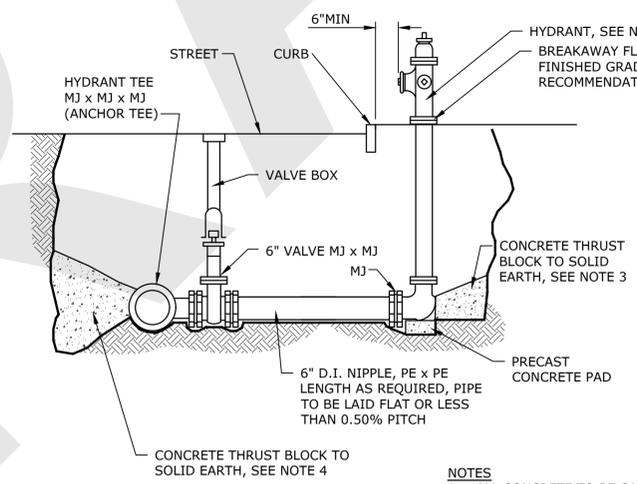
DOWNWARD VERTICAL BEND

FITTING	MINIMUM RESTRAINED LENGTH* PER PIPE SIZE		
	16"	10"	6"
GATE VALVE	119	78	50
90° BEND HORZ.	46	31	20
45° BEND (HORZ. OR VERT. UP)	19	13	9
45° BEND (VERT. DOWN)	49	32	21
22 1/2° BEND (HORZ. OR VERT. UP)	10	6	4
22 1/2° BEND (VERT. DOWN)	24	16	10
11 1/4° BEND (HORZ. OR VERT. UP)	5	3	2
11 1/4° BEND (VERT. DOWN)	12	8	5
16"x10" REDUCER	70		
16"x6" REDUCER	100		
10"x6" REDUCER		48	
DEAD END	119	78	50
16"x16" TEE	119		
10"x10" TEE		78	
6"x6" TEE			50

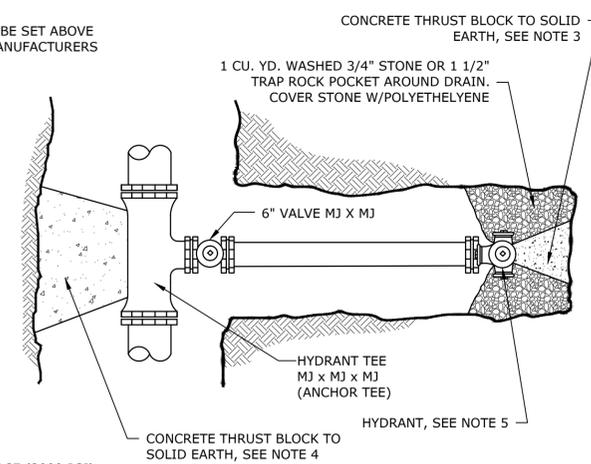
* MINIMUM RESTRAINED LENGTH BASED ON DIPRA, "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE," 3rd EDITION, 1992.

FOLLOWING CONDITIONS APPLY:
SOIL TYPE: SAND SILT
MAX. PRESSURE: 200psi
LAYING CONDITIONS: TYPE 4
BURIED DEPTH: 5'

MINIMUM RESTRAINED LENGTHS FOR DI PIPE



ELEVATION



PLAN

- NOTES:**
- ALL CONCRETE TO BE CAST-IN-PLACE (3000 PSI)
 - ALL MJ JOINTS SHALL HAVE RETAINER GLANDS
 - CARE SHALL BE TAKEN TO SHIELD HYDRANT BASE DRAIN HOLES DURING PLACEMENT OF THE CONCRETE THRUST BLOCK. DRAIN HOLES SHALL BE VERIFIED AS OPEN AND FREE OF OBSTRUCTIONS PRIOR TO BACKFILLING.
 - CARE SHALL BE TAKEN TO SHIELD ALL MECHANICAL JOINT GLANDS AND BOLTS DURING PLACEMENT OF CONCRETE THRUST BLOCK. ALL BOLTS AND GLANDS SHALL BE FREE AND UNOBSTRUCTED BEFORE BACKFILLING.
 - HYDRANT SHALL BE SET PLUMB. VERTICAL HYDRANT EXTENSIONS SHALL BE USED AS NECESSARY TO PROPERLY LOCATE THE BREAKAWAY FLANGE PER MANUFACTURERS RECOMMENDATIONS.
 - POLYETHYLENE SHEETING SHALL BE PLACED OVER THE FITTING AND/OR HYDRANT BASE TO PREVENT DIRECT CONTACT OF CONCRETE WITH THE FITTING.

HYDRANT INSTALLATION
NO SCALE

90% DESIGN

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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

Location: Ludlow, Massachusetts

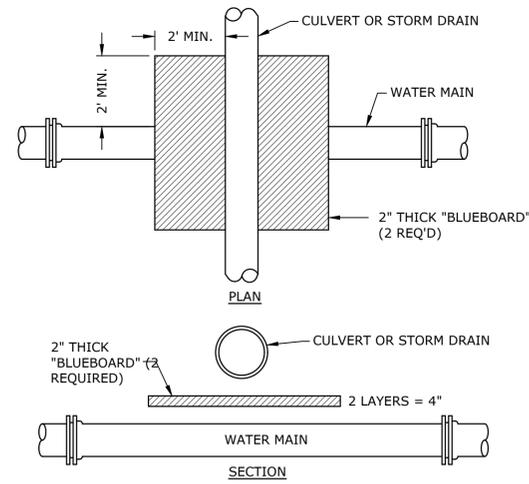
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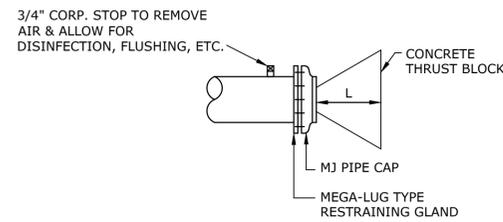
CIVIL DETAILS - 2

SCALE: NO SCALE

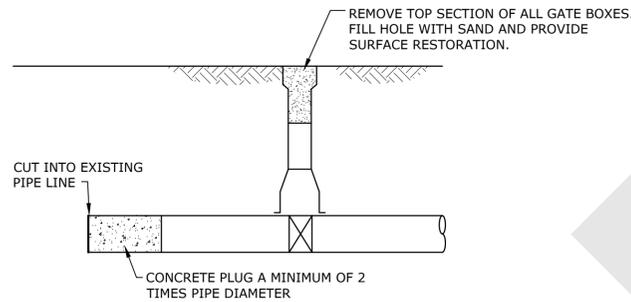
C-502
SHEET 13 OF 16



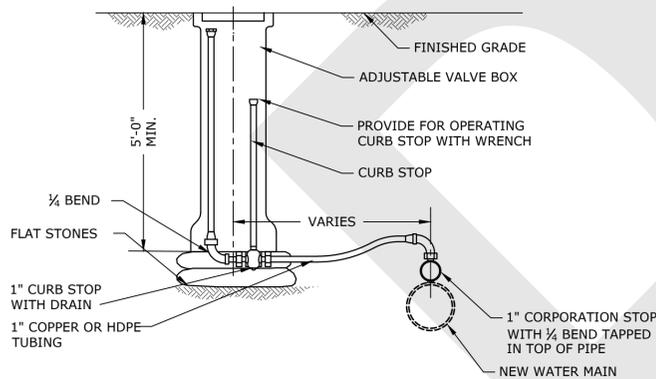
WATER MAIN INSULATION DETAIL
NO SCALE



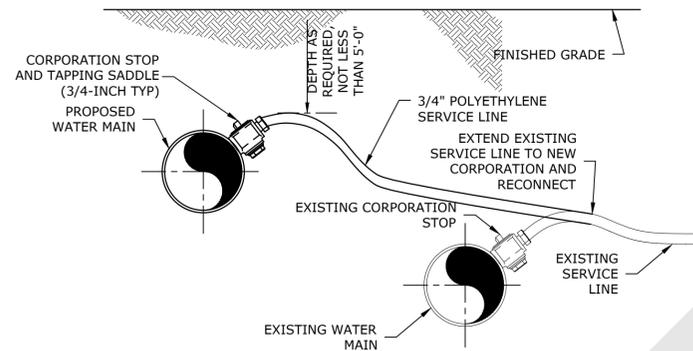
**WATER MAIN CAPPING DETAIL
(FOR PIPES SUBJECT TO PRESSURE)**
NO SCALE



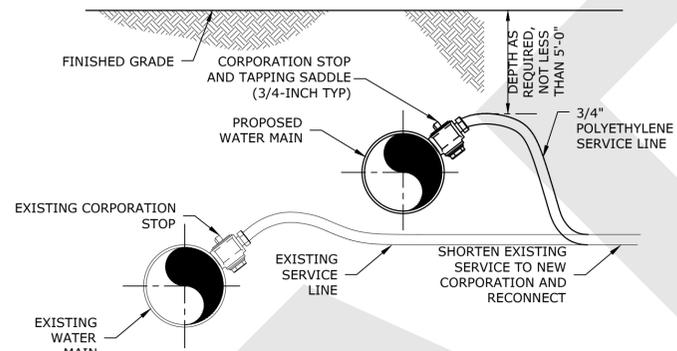
**TYPICAL WATER MAIN ABANDONMENT
DETAIL (FOR PIPES NOT SUBJECT TO PRESSURE)**
NO SCALE



**PERMANENT AIR VENT OR
TEMPORARY CHLORINATION INJECTION**
NO SCALE



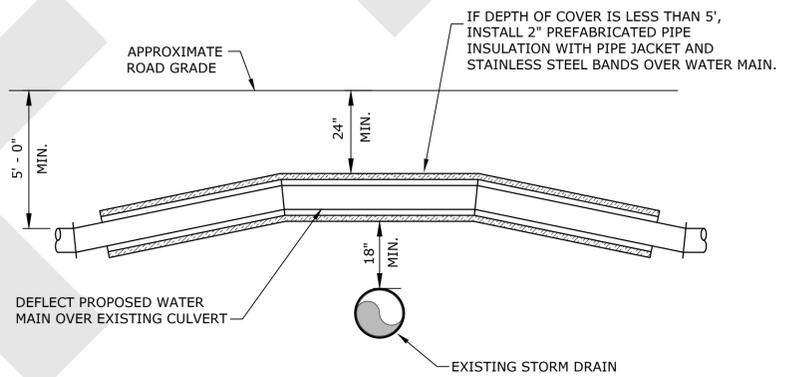
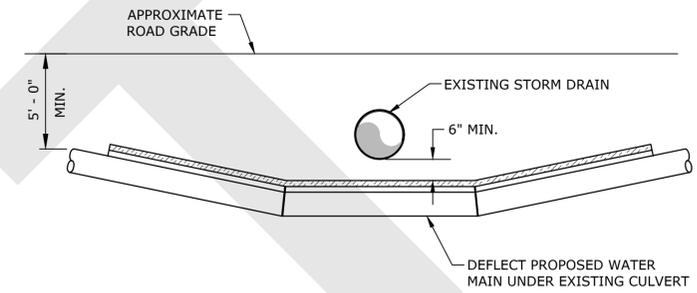
WATER SERVICE RECONNECTION (LONG)
NO SCALE



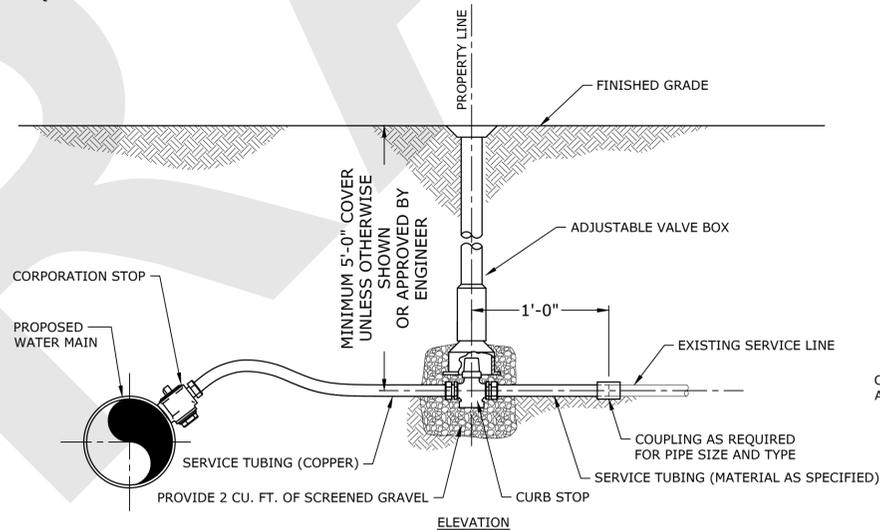
WATER SERVICE RECONNECTION (SHORT)
NO SCALE

NOTES:

1. RECONNECT SERVICES AT ALL PROPERTIES. LOCATIONS TO BE FIELD LOCATED WITH LANESBOROUGH FIRE & WATER DISTRICT.
2. EXCAVATE DOWN TO THE EXISTING SERVICE AT THE EXISTING WATER MAIN.
3. TURN OFF THE CORPORATION AND DISCONNECT THE EXISTING SERVICE.
4. EXTEND OR SHORTEN EXISTING WATER SERVICE AS REQUIRED TO CONNECT TO NEW CORPORATION ON NEW WATER MAIN.
5. PROVIDE ALL UNIONS, COUPLINGS, AND COPPER PIPE AS REQUIRED.



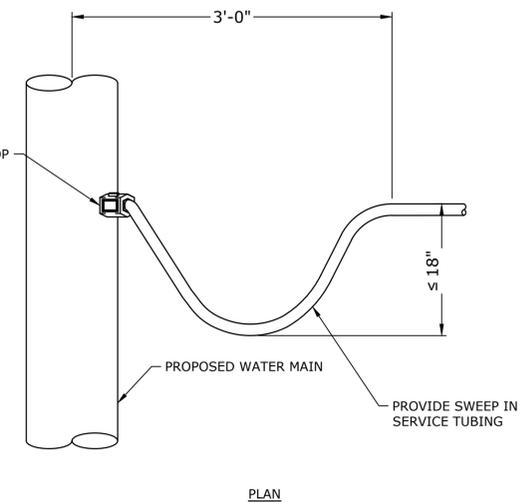
STORM DRAIN CROSSING
NOT TO SCALE



NOTES:

1. EXISTING WATER SERVICE TO BE FIELD VERIFIED.
2. PROVIDE NEW WATER SERVICES TO ALL PROPERTIES SHOWN ON THE DRAWINGS UNLESS OTHERWISE DIRECTED BY THE OWNER. LOCATIONS OF NEW WATER SERVICES AND CURB STOPS SHALL BE FIELD LOCATED PER THE OWNER'S DIRECTION.
3. WHEN WATER SERVICES ARE BEING TRANSFERRED FROM AN EXISTING WATER MAIN TO A NEW WATER MAIN, THE EXISTING WATER SERVICE SHALL BE ABANDONED AT THE EXISTING WATER MAIN PER THE OWNER'S DIRECTION.
4. SERVICE SADDLES SHALL BE REQUIRED FOR LARGER SERVICES. REFER TO SPECIFICATION SECTION 02519, WATER SERVICES.
5. POSITION CORPORATION STOP VALVE OPERATOR OPPOSITE FROM DIRECTION OF COPPER SERVICE PIPE AT MAIN.
6. INSTALL CURB STOP SO THAT IT IS OFFSET A MINIMUM OF 2' FROM ANY OBSTRUCTION PREVENTING THE USE OF CURB STOP WRENCH (E.G., FENCE, RETAINING WALL, ETC.)
7. PROVIDE NEW CURB STOP AND BOX WHERE NOTED/SHOWN ON THE DRAWINGS.

WATER SERVICE CONNECTION AT PROPERTY LINE
NO SCALE



PLAN

90% DESIGN

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**Miller Street
Water Main
Replacement
Project -
Phase 1**

Wilbraham
Department of
Public Works

Location: Ludlow,
Massachusetts

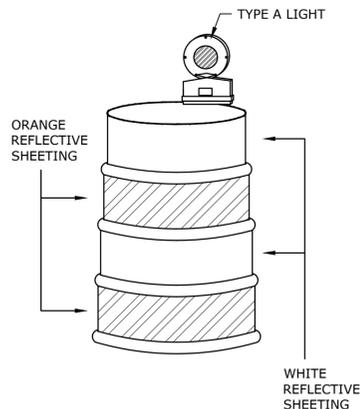
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APPROVED BY:	J. FAULKNER

CIVIL DETAILS - 3

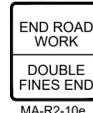
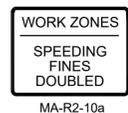
SCALE: NO SCALE

C-503
SHEET 14 OF 16



- NOTES:**
1. DRUM DESIGN AND APPLICATION SHALL BE AS PER THE CURRENT EDITION OF THE MUTCD.
 2. DRUMS SHALL BE APPROXIMATELY 36" IN HEIGHT, HAVING A MINIMUM WALL THICKNESS OF 3/32" AND A MINIMUM DIAMETER OF 18" REGARDLESS OF ORIENTATION.
 3. DRUM MATERIAL MUST BE APPROVED UV RESISTANT, LOW DENSITY, IMPACT RESISTANT, LINEAR POLYETHYLENE (OR APPROVED EQUIVALENT).
 4. SHEETING SHALL BE APPROVED ORANGE AND WHITE TYPE IV REFLECTORIZED SHEETING CONFORMING TO M.9.30.0.
 5. ALL DRUMS SHALL BE WELL MAINTAINED INCLUDING REMOVAL OF DUST OR ROAD FILM, SO AS NOT TO REDUCE REFLECTIVE EFFICIENCY. WHEN A DRUM LOSES TARGET VALUE IT SHALL BE REPLACED.
 6. STORE UNUSED DRUMS IN ONE LOCATION, AWAY FROM ALL TRAFFIC, OR REMOVE FROM SITE ENTIRELY.

PLASTIC DRUMS

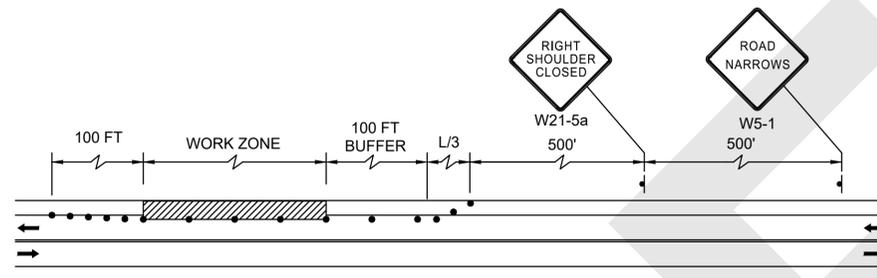


WORK ZONE LIMIT SIGNS
SEE NOTE 12

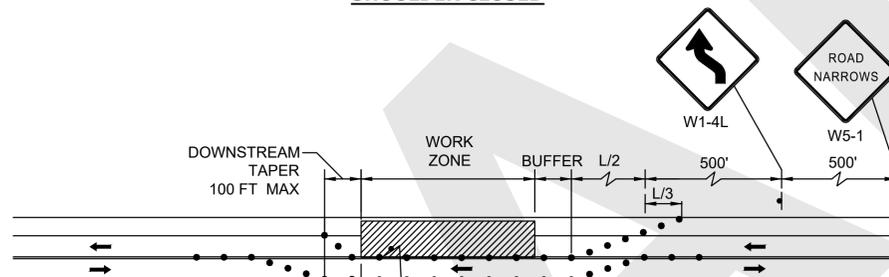
SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE:
L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

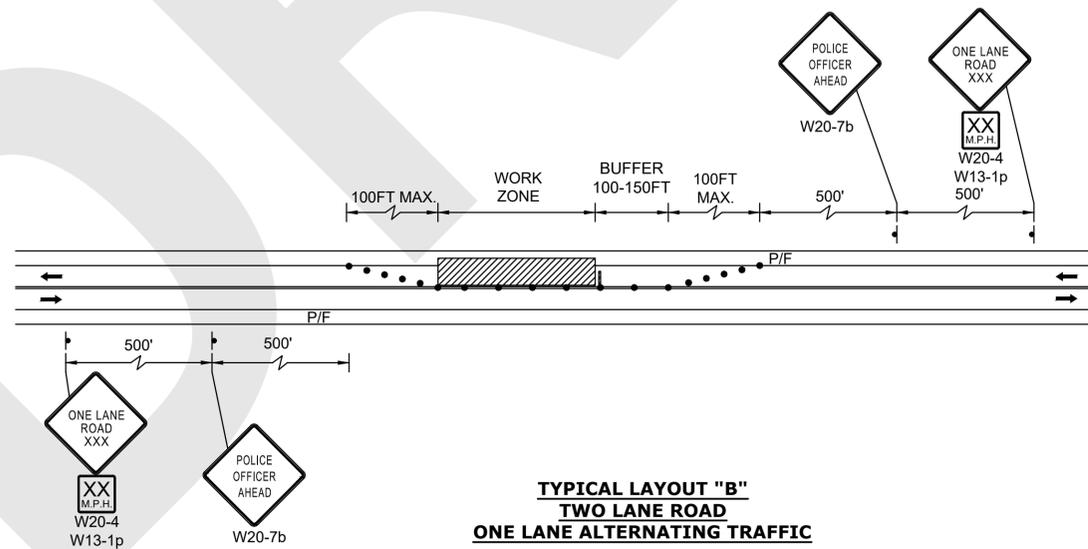
FORMULAS FOR DETERMINING TAPER LENGTHS



TWO LANE ROAD SHOULDER CLOSED



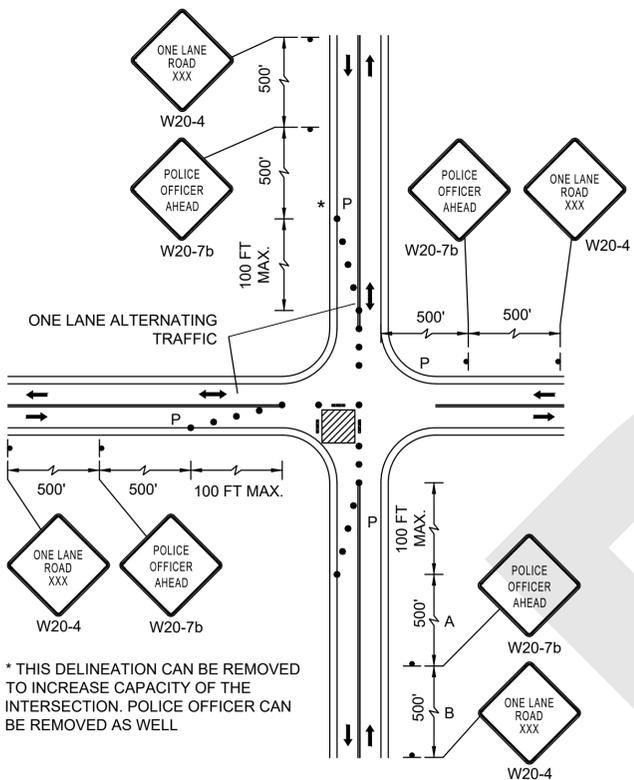
TYPICAL LAYOUT "A" TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED



TYPICAL LAYOUT "B" TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC

LEGEND

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- P/F POLICE/FLAGGER DETAIL
- ▨ TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ➔ ARROW BOARD
- ▨ WORK ZONE
- ➔ DIRECTION OF TRAFFIC
- ▨ IMPACT ATTENUATOR
- ▨ MEDIAN BARRIER
- ▨ MEDIAN BARRIER WITH WARNING LIGHTS
- ▨ WORK VEHICLE
- ▨ TRUCK MOUNTED ATTENUATOR
- ➔ TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN
- CHANNELIZING DEVICE BARREL



TYPICAL LAYOUT "C" SINGLE LANE APPROACH ONE QUADRANT CLOSURE

* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

NOTES

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
7. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
8. MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
9. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
10. SIGN MA-R2-10a AND MA-R2-10e SHALL BE LOCATED AT THE PROJECT LIMITS FOR THE DURATION OF THE WORK.
11. ALL WARNING SIGNS SHALL BE BLACK LEGEND ON A REFLECTIVE ORANGE BACKGROUND.
12. TYPICAL LAYOUTS:
"A" SHALL BE USED WHEN THE TRAVEL WIDTH FROM THE CHANNELING DEVICES TO THE EDGE OF PAVEMENT IS GREATER THAN 22 FEET.
TYPICAL LAYOUT "B" SHALL BE USED WHEN THE TRAVEL WIDTH FROM THE CHANNELING DEVICES TO THE EDGE OF PAVEMENT IS LESS THAN 22 FEET.
TYPICAL LAYOUT "C" SHALL BE USED FOR ALL INTERSECTIONS, WHETHER OR NOT THE PROPOSED WATER OR SEWER LINE CROSSES THE INTERSECTION.
13. FOR TYPICAL LAYOUT B & C THE CONTRACTOR SHALL MAINTAIN ONE OPEN TRAVEL LANE OF NOT LESS THAN 12 FEET AT ALL TIMES.
14. NO CONSTRUCTION EQUIPMENT OR MATERIALS (EXCEPT THOSE IN USE) SHALL BE STORED CLOSER THAN 8 FEET TO THE EDGE OF TRAVELED LANES.
15. THE NUMBER AND LOCATION OF ALL SIGNS AND DEVICES SHALL BE AS DEEMED NECESSARY BY THE ENGINEER AND POLICE DEPARTMENT FOR THE SAFE AND EFFICIENT PERFORMANCE OF THE WORK AND THE SAFETY OF THE TRAVELING PUBLIC. ALL WARNING DEVICES SHALL BE SUBJECT TO REMOVAL, REPLACEMENT AND/OR REPOSITIONING BY THE CONTRACTOR AS OFTEN AS DEEMED NECESSARY BY THE ENGINEER.
16. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IF IT BECOMES NECESSARY FOR SAID TRENCH TO BE LEFT OVERNIGHT, THEN IT SHALL BE COVERED WITH STEEL PLATES AT THE APPROVAL OF THE OWNER.
17. ALL SIGNS AND SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT STANDARDS.
18. REFLECTORIZED DRUMS SHALL REMAIN IN PLACE DURING CONSTRUCTION ACTIVITIES AND/OR WHEN A ROADSIDE HAZARD EXISTS. ANY REFLECTORIZED DRUMS REQUIRED TO REMAIN IN PLACE DURING DARKNESS SHALL BE EQUIPPED WITH STEADY BURN (TYPE C) PER MUTCD.
19. DAYTIME WORK ZONE SIGNAGE SHALL BE COVERED OR REMOVED AT THE END OF EACH WORK DAY.
20. DURING ALL CONSTRUCTION ACTIVITIES ON THE ROADWAYS INCLUDING EARTHWORK AND GRADING, A MINIMUM OF ONE LANE ALTERNATING TRAFFIC FLOW SHALL BE MAINTAINED.
21. FULL ROADWAY WIDTH MUST BE RETURNED AT THE END OF EACH WORK DAY.
22. ONE LANE TRAFFIC FLOW SHALL BE REQUIRED DURING ALL OPERATIONS WHICH REDUCE DRIVE LANE(S) LESS THAN 12'.
23. HALF WIDTH CONSTRUCTION METHODS SHALL BE UTILIZED FOR PAVING OPERATIONS.
24. AS CONSTRUCTION OPERATIONS CHANGE, SO SHALL WARNING SIGNS. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND ARRANGING SIGNS AS CONSTRUCTION VARIES AND PROCEEDS.

90% DESIGN

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Miller Street Water Main Replacement Project - Phase 1

Wilbraham Department of Public Works

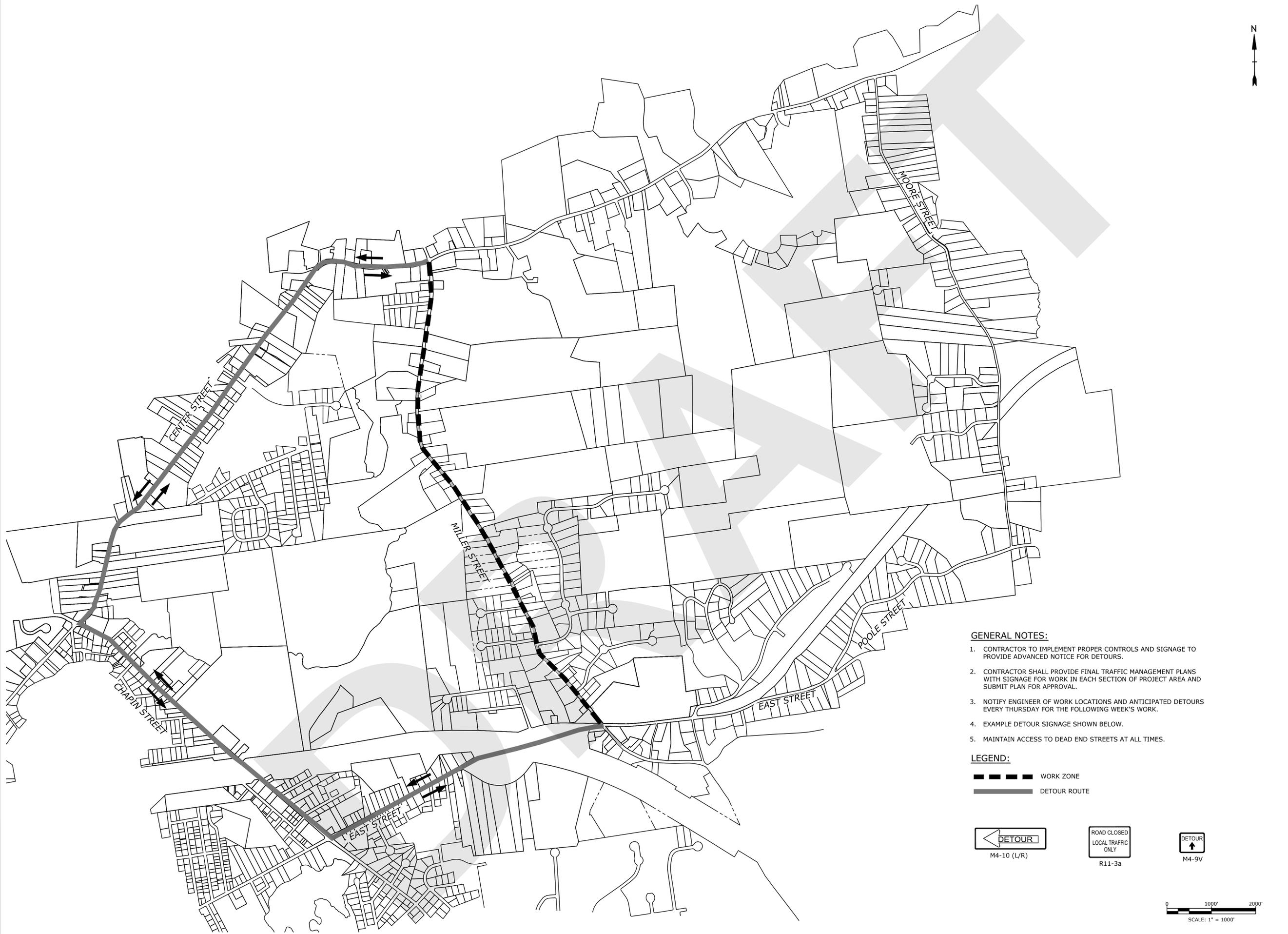
Location: Ludlow, Massachusetts

MARK	DATE	DESCRIPTION
2	2/18/2026	90% DESIGN
1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
DATE: JANUARY 2026
FILE: W1929-036_Details.dwg
DRAWN BY: J. BOYNE, C. HESKETH
DESIGNED BY: S. NYSER, C. LAROCHELLE
CHECKED BY: M. KIRK, C. LAROCHELLE
APPROVED BY: J. FAULKNER

TRAFFIC MANAGEMENT PLAN

SCALE: NO SCALE



90% DESIGN

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Miller Street Water Main Replacement Project - Phase 1

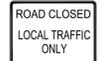
Wilbraham Department of Public Works

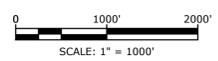
Location: Ludlow, Massachusetts

GENERAL NOTES:

1. CONTRACTOR TO IMPLEMENT PROPER CONTROLS AND SIGNAGE TO PROVIDE ADVANCED NOTICE FOR DETOURS.
2. CONTRACTOR SHALL PROVIDE FINAL TRAFFIC MANAGEMENT PLANS WITH SIGNAGE FOR WORK IN EACH SECTION OF PROJECT AREA AND SUBMIT PLAN FOR APPROVAL.
3. NOTIFY ENGINEER OF WORK LOCATIONS AND ANTICIPATED DETOURS EVERY THURSDAY FOR THE FOLLOWING WEEK'S WORK.
4. EXAMPLE DETOUR SIGNAGE SHOWN BELOW.
5. MAINTAIN ACCESS TO DEAD END STREETS AT ALL TIMES.

LEGEND:

 WORK ZONE
 DETOUR ROUTE
 M4-10 (L/R)
 R11-3a
 M4-9V



Last Saved: 2/17/2026
 Plotted On: Feb 18, 2026 9:04am By: Chesketh
 Tighe & Bond\J.M.W\1929 Wilbraham\036 Miller Street Water Main Drawings\AutoCAD\Sheet\W1929-036 Detour.dwg

MARK	DATE	DESCRIPTION
2	2/18/2026	90% DESIGN
1	1/16/2026	75% DESIGN

PROJECT NO: W1929-036
 DATE: JANUARY 2026
 FILE: W1929-036 Detour.dwg
 DRAWN BY: J. BOYNE, C. HESKETH
 DESIGNED BY: S. NYSER, C. LAROCHELLE
 CHECKED BY: M. KIRK, C. LAROCHELLE
 APPROVED BY: J. FAULKNER

POTENTIAL TRAFFIC CONTROL AND DETOUR PLAN

SCALE: 1" = 1000'