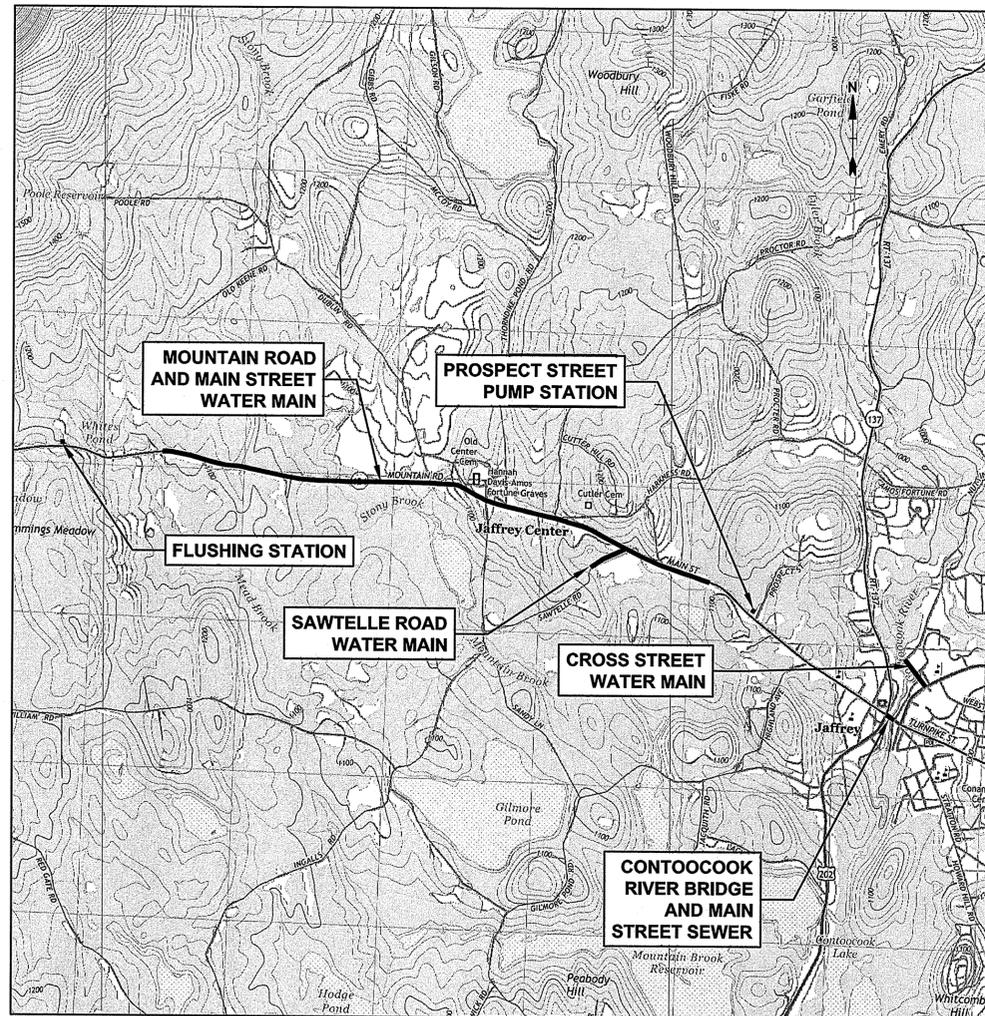


MOUNTAIN ROAD AND MAIN STREET WATER MAIN REPLACEMENT

TOWN OF JAFFREY JAFFREY, NEW HAMPSHIRE

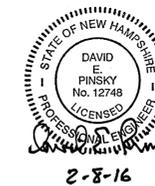
FEBRUARY 2016

SHEET INDEX	
SHEET NO.	DESCRIPTION
G-001	COVER SHEET
G-002	ABBREVIATIONS, LEGEND, AND GENERAL NOTES
C-101	PROPOSED WATER MAIN STA. 0+00 TO 20+00
C-102	PROPOSED WATER MAIN STA. 20+00 TO 40+00
C-103	PROPOSED WATER MAIN STA. 40+00 TO 60+00
C-104	PROPOSED WATER MAIN STA. 60+00 TO 80+00
C-105	PROPOSED WATER MAIN STA. 80+00 TO 100+00
C-106	PROPOSED WATER MAIN STA. 100+00 TO 120+00
C-107	PROPOSED WATER MAIN STA. 120+00 TO 124+64 AND FLUSHING STATION
C-108	CONTOOCCOOK RIVER BRIDGE, MAIN STREET SEWER, AND SAWTELLE ROAD
C-109	CROSS STREET WATER MAIN REPLACEMENT
C-501	DETAIL SHEET
C-502	DETAIL SHEET
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C-504	DETAIL SHEET
C-505	DETAIL SHEET
C-506	TRAFFIC CONTROL NOTES AND DETAILS
M-101	PROSPECT ST. PUMP STATION - PRESSURE REDUCING VALVE - PLAN
M-501	PROSPECT ST. PUMP STATION - PRESSURE REDUCING VALVE - DETAILS



LOCATION PLAN
SCALE: 1"=2000'

Tighe & Bond
www.tighebond.com



COMPLETE SET 19 SHEETS

LEGEND

IRF	IRON ROD FOUND
IPF	IRON PIPE FOUND
DHF	DRILL HOLE FOUND
CB	CATCH BASIN
CB	ROUND CATCH BASIN
C	CULVERT
SM	SEWER MANHOLE
SC	SEWER CLEANOUT
EM	ELECTRIC METER
CBDH	CONCRETE BOUND WITH DRILL HOLE
CS	CURB STOP
WGV	WATER GATE VALVE
SSC	SOLID SLEEVE COUPLING
EFH	EXISTING FIRE HYDRANT
PFH	PROPOSED FIRE HYDRANT
TFH	TEMPORARY FIRE HYDRANT
UPWR	UTILITY POLE WITH RISER
UP	UTILITY POLE
UPL	UTILITY POLE WITH LIGHT
UPLR	UTILITY POLE WITH LIGHT AND RISER
UPT	UTILITY POLE WITH TRANSFORMER
UPLRT	UTILITY WITH RISER AND TRANSFORMER
GP	GUY POLE
GW	GUY WIRE
DT	DECIDUOUS TREE
CT	CONIFEROUS TREE
SP	SIGN (SINGLE POSTED)
SDP	SIGN (DOUBLE POSTED)
P	POST
B-01	TEST BORING LOCATION
MW	MONITORING WELL LOCATION
IP	INLET PROTECTION
FS	PROPOSED FLUSHING STATION
PDW	PROPOSED DRY WELL
BP	BITUMINOUS PAVEMENT
BTTR	PROPOSED BITUMINOUS TRENCH REPAIR-TOWN ROADS
BTBR	PROPOSED BITUMINOUS PAVEMENT REPAIR-PAVER DRAG SHIM
G	GRAVEL
CLF	CHAIN LINK FENCE
GR	GUARD RAIL
SS	EXISTING SEWER MAIN
SSFM	EXISTING SEWER FORCE MAIN
DL	EXISTING DRAIN LINE
DL	PROPOSED DRAIN LINE
SS	PROPOSED SANITARY SEWER
WM	EXISTING WATER MAIN
WM	PROPOSED WATER MAIN
WMR	PROPOSED WATER MAIN WITH RESTRAINED JOINT PIPE
WM	TEMPORARY WATER MAIN
E	UNDERGROUND ELECTRIC
UC	UNDERGROUND CABLE
OE	OVERHEAD ELECTRIC
SW	STONE WALL
TL	TREE LINE
1108	INTERMEDIATE CONTOURS
1110	INDEX CONTOURS
WL	WETLAND LINE
ECB	EROSION CONTROL BARRIER

CALL-OUTS

CALL-OUT BOXES INDICATE A REFERENCE TO A DETAIL.

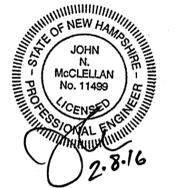
1	DETAIL NUMBER
C-501	SHEET NUMBER IN WHICH DETAIL APPEARS

ABBREVIATIONS

ASBESTOS CEMENT PIPE	AC	INVERT	INV
BITUMINOUS	BIT	IRON PIPE	IP
BITUMINOUS PAVEMENT DRIVE	BC DR	MAIL BOX	MB
BOTTOM OF EXPLORATION	BOE	MANHOLE	MH
CAST IRON	CI	MECHANICAL JOINT	MJ
CATCH BASIN	CB	NOT SERVICED	N.S.
CHAIN LINK FENCE	CLF	NOT TO SCALE	N.T.S.
CLASS OF PIPE	CL	PAVED WALK	PW
CONCRETE	CONC	POLYETHYLENE PIPE	PE
CONCRETE WALK	CW	POLY-VINYL CHLORIDE	PVC
CORRUGATED METAL PIPE	CMP	PROPERTY LINE	P L
DEBRIS	DB	PUMP STATION	PS
DIMENSION RATIO	DR	REINFORCED CONCRETE PIPE	RCP
DRAIN MANHOLE	DMH	RIGHT OF WAY	R.O.W.
DUCTILE IRON	DI	SANITARY MANHOLE	SMH
EROSION CONTROL	EC	STATION	STA
GAS GATE	GG	STONE BOUND	SB
GRANITE CURB	GC	STREET LINE	S L
GRAVEL DRIVE	GRAV DR	TEMPORARY BENCH MARK	TBM
GUY WIRE	GW	TELEPHONE POLE	TP
GRAVEL DRIVE	GP	TRAFFIC CONTROL	TC
HIGH DENSITY POLYETHYLENE	HDPE	UNDER CONSTRUCTION	UC
HOUSE	HSE	UTILITY POLE	UP
HYDRANT	HYD	UTILITY STRUCTURE	UT
IN FRONT OF	IFO	UNDELINEATED WETLAND AREA	UWA
		WATER GATE	WG
		WATER TIGHT COVER	WTC

GENERAL NOTES

- EXISTING UTILITY LOCATIONS ARE BASED ON A COMBINATION OF AERIAL MAPPING AND ON THE GROUND SURVEY CONDUCTED BY WSP BETWEEN MAY 5, 2015 AND JUNE 19, 2015. PRIOR TO CONSTRUCTION, DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT, OR OTHER METHODS WHERE REQUIRED, WHEN AUTHORIZED BY THE ENGINEER. ALIGNMENT OF PROPOSED WATER MAIN MAY HAVE TO BE ADJUSTED BASED ON LOCATIONS AND DEPTH OF EXISTING UTILITIES.
- NEW WATER MAIN CROSSINGS OF EXISTING UTILITIES ALONG PROJECT ROUTE MUST BE COMPLETED IN A MANNER THAT WILL NOT INTERRUPT UTILITY SERVICE. OBTAIN ENGINEER AND UTILITY OWNER APPROVAL BEFORE TEMPORARILY SHUTTING DOWN UTILITIES.
- TAKE NECESSARY PRECAUTIONS TO MAINTAIN EXISTING WATER, GAS AND SEWER SERVICES TO RESIDENTS ALONG THE PROJECT ROUTE. REPAIR DAMAGED SERVICES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
- IN GENERAL, PROVIDE THE WATER MAIN WITH A MINIMUM OF 6'-0" OF COVER. AT LOCATIONS WHERE CONFLICTS WITH EXISTING UNDERGROUND UTILITIES OR PIPES OCCUR, PROVIDE THE WATER MAIN DEEPER AS REQUIRED TO PROVIDE A MINIMUM OF 6" VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND THE UTILITY PIPE, EXCEPT PROVIDE THE WATER MAIN ABOVE SANITARY SEWERS AND PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE.
- LOCATE THE WATER MAIN AT LEAST 10 FEET HORIZONTALLY FROM AND 18 INCHES VERTICALLY ABOVE ANY EXISTING SANITARY SEWER, EXCEPT WHERE DIRECTED OTHERWISE BY THE ENGINEER. AT CROSSINGS, PROVIDE ONE FULL LENGTH OF PIPE SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER PIPE AS POSSIBLE.
- LOCATE BY HAND EXCAVATION ALL EXISTING UTILITIES TO BE CROSSED. REPLACE EXISTING UTILITIES BROKEN BY THE CONTRACTOR IN-KIND, AT NO ADDITIONAL COST TO OWNER.
- EXPECT TO ENCOUNTER ABANDONED SANITARY SEWER SERVICES CROSSING THE PROPOSED WATER MAIN AND SERVICE CORRIDORS. EXCEPT WHERE INDICATED OTHERWISE, PLUG ALL ABANDONED PIPELINES ON EACH END WITH A MINIMUM 1 CUBIC FOOT OF HAND MIXED CONCRETE, IN ACCORDANCE WITH SECTION 02280.
- THE LOCATION OF SERVICES SHOWN ON THE DRAWINGS IS APPROXIMATE. THE LOCATIONS OF SERVICE CONNECTIONS TO THE NEW WATER MAIN WILL BE DETERMINED IN THE FIELD TO ALIGN WITH THE LOCATION OF EXISTING SERVICES.
- ALL WATER SERVICES SHALL BE 1" DIAMETER HDPE UNLESS OTHERWISE NOTED. REPLACE EXISTING WATER SERVICE LINES FROM THE NEW WATER MAIN TO THE LOCATION OF THE EXISTING CURB STOP.
- NEW SERVICE CONNECTIONS SHALL INCLUDE A NEW CURB STOP AND CURB BOX TO BE LOCATED AT THE LOCATION OF THE EXISTING CURB STOP. NEW WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM 6'-0" COVER FROM WATER MAIN TO CURB STOP, REGARDLESS OF EXISTING SERVICE DEPTH.
- ALL DUCTILE IRON FITTINGS (AT ALL LOCATIONS) SHALL HAVE MECHANICAL JOINTS (MJ) AND RETAINER GLANDS.
- ALL BENDS, TEES, HYDRANTS, END CAPS AND PLUGS SHALL HAVE CONCRETE THRUST BLOCKS IN ADDITION TO RETAINER GLANDS. BENDS ARE NOT CALLED OUT IN DRAWINGS. PROVIDE BENDS AS REQUIRED TO PROVIDE THE INDICATED ALIGNMENT.
- REMOVE AND REPLACE FENCES, MAILBOXES, CURBING, ETC. AS NECESSARY. CONDITION OF REPLACED ITEMS SHALL BE EQUAL OR BETTER THAN ORIGINAL CONDITION PRIOR TO REMOVAL.
- BORING LOCATIONS SHOWN ARE APPROXIMATE ONLY AND BORINGS ARE NOT GUARANTEED IN ANY WAY TO REPRESENT THE EXISTING CONDITIONS.
- PROVIDE AND MAINTAIN SILT SACK SILTATION CONTROL DEVICES AT ALL CATCH BASINS WITHIN THE PROJECT AREA TO PREVENT SILTATION OF THE TOWN'S STORM DRAINAGE SYSTEM.
- REMOVE THE GATE VALVE BONNET AND BOXES ON ALL EXISTING GATE VALVES ON MAINS TO BE ABANDONED. PLUG ALL OPENINGS WITH CONCRETE.
- COVER ALL FIRE HYDRANTS TAKEN OUT OF SERVICE WITH NON-DEGRADABLE BAG, SECURELY TIED.
- PROVIDE TEMPORARY TRENCH REPAIR (STATE HIGHWAY) WHERE OTHER PAVEMENT REPAIR IS NOT INDICATED IN ACCORDANCE WITH DETAIL 6 ON SHEET C-501.
- EXISTING HYDRANTS ARE TO REMAIN IN SERVICE DURING CONSTRUCTION EXCEPT WHERE THE MAINS TO WHICH THEY ARE CONNECTED ARE INDICATED TO BE BYPASSED. AFTER NEW MAIN IS IN SERVICE, REMOVE EXISTING HYDRANTS CONNECTED TO THE ABANDONED MAINS, INCLUDING RISERS AND VALVE BOXES. SAVE HYDRANTS FOR OWNER.
- SIDE STREETS ARE NOT BACK-FED. SEQUENCE WORK AND/OR PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ALL SIDE STREETS DURING CONSTRUCTION.



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
0 1 INCH
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

0	02/2016	Issued for Construction
MARK	DATE	DESCRIPTION
PROJECT NO: J0020-44		
DATE: 02/02/2016		
FILE: J0020-44-C-SITE.dwg		
DRAWN BY:		REP, CFY
CHECKED:		JNM
APPROVED:		DEP

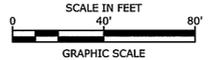
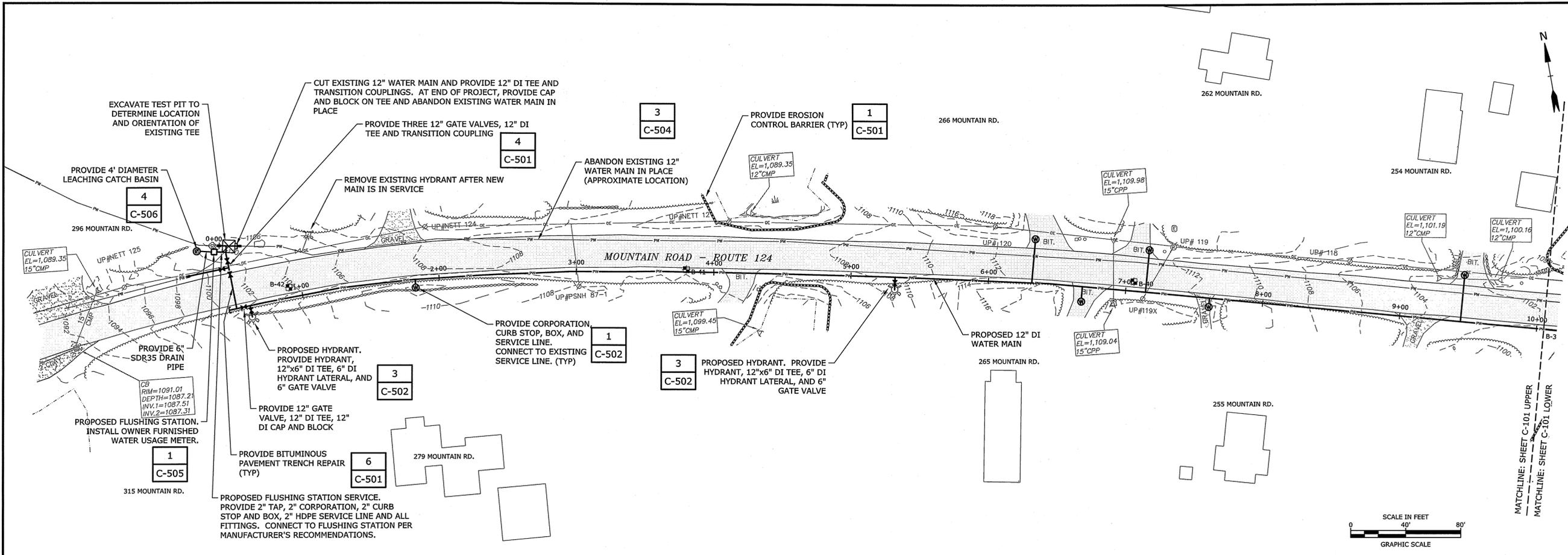
ABBREVIATIONS, LEGEND, AND GENERAL NOTES

SCALE: NO SCALE

G-002

STATE OF NEW HAMPSHIRE
DAVID E. PINSKY
No. 12748
LICENSED PROFESSIONAL ENGINEER
2-8-16

STATE OF NEW HAMPSHIRE
JOHN N. McCLELLAN
No. 11499
LICENSED PROFESSIONAL ENGINEER
2-8-16



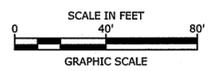
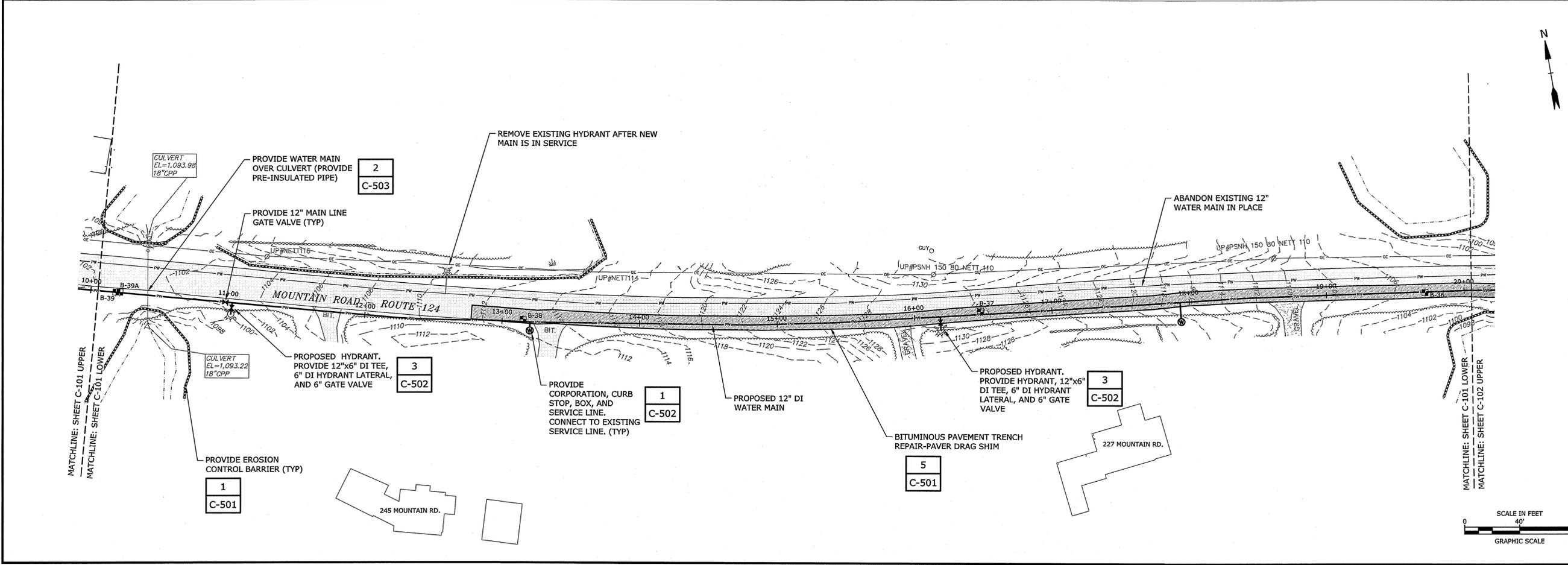
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MATCHLINE: SHEET C-101 LOWER

Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

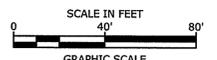
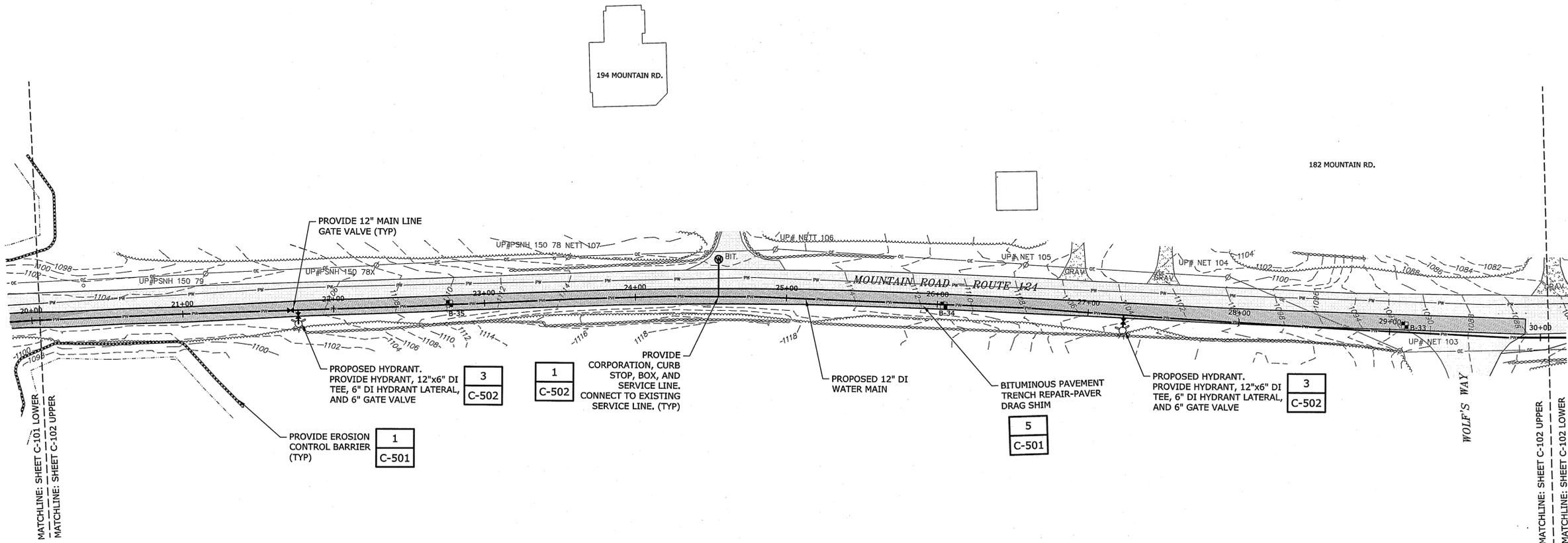
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MATCHLINE: SHEET C-102 UPPER

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PROJECT NO: J0020-44		
DATE: 02/02/2016		
FILE: J0020-44-C-SITE.dwg		
DRAWN BY:		REP, CFY
CHECKED BY:		JNM
APPROVED:		DEP
PROPOSED WATER MAIN STA. 0+00 TO 20+00		
SCALE:		1" = 40'
C-101		

Feb 09, 2016 9:31am Plotted By: CFY
Tighe & Bond, Inc. 233 Dorr Street, Portsmouth, NH 03801-4400

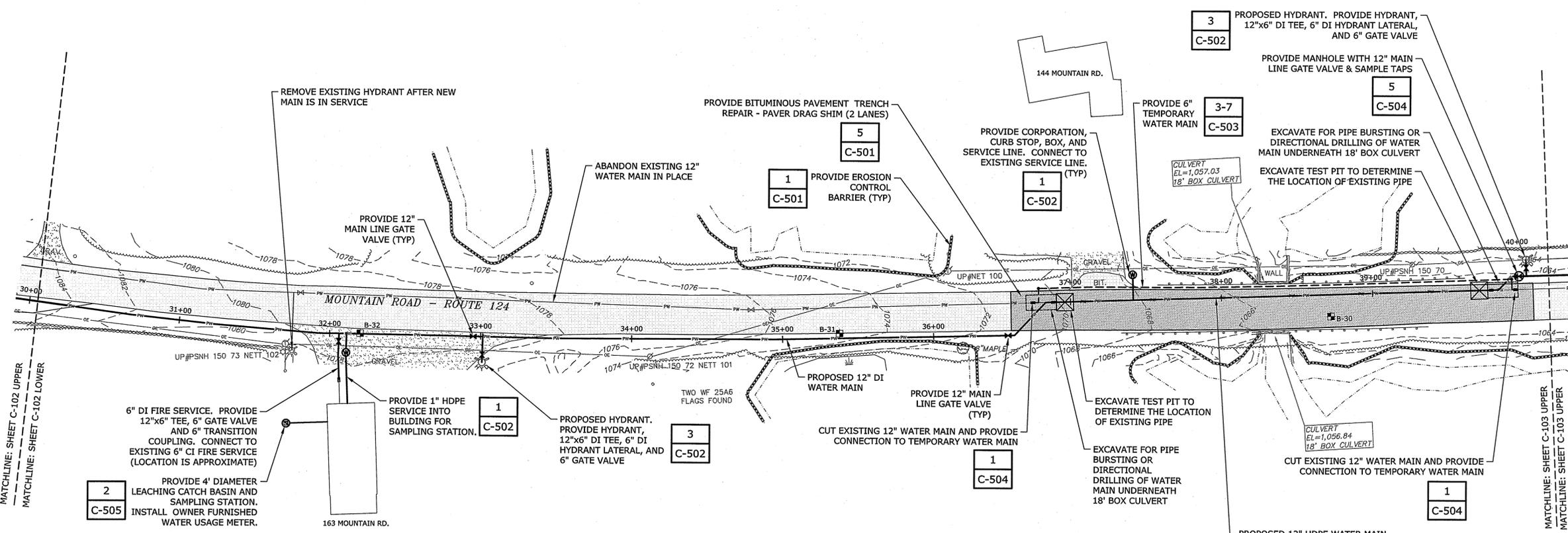


Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

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MARK	DATE	DESCRIPTION
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PROJECT NO: J0020-44		
DATE: 02/02/2016		
FILE: J0020-44-C-SITE.dwg		
DRAWN BY: REP, CFY		REP, CFY
CHECKED BY: JNM		JNM
APPROVED BY: DEP		DEP

PROPOSED WATER MAIN STA. 20+00 TO 40+00

SCALE: 1" = 40'

Feb 09, 2016 8:32am Plotted By: CFY
Tighe & Bond, Inc. P:\0020\Mountain Rd and Main Street Water Mains\Drawings & Figures\AutoCAD\J0020-44-C-SITE.dwg



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE

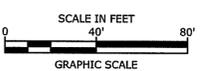
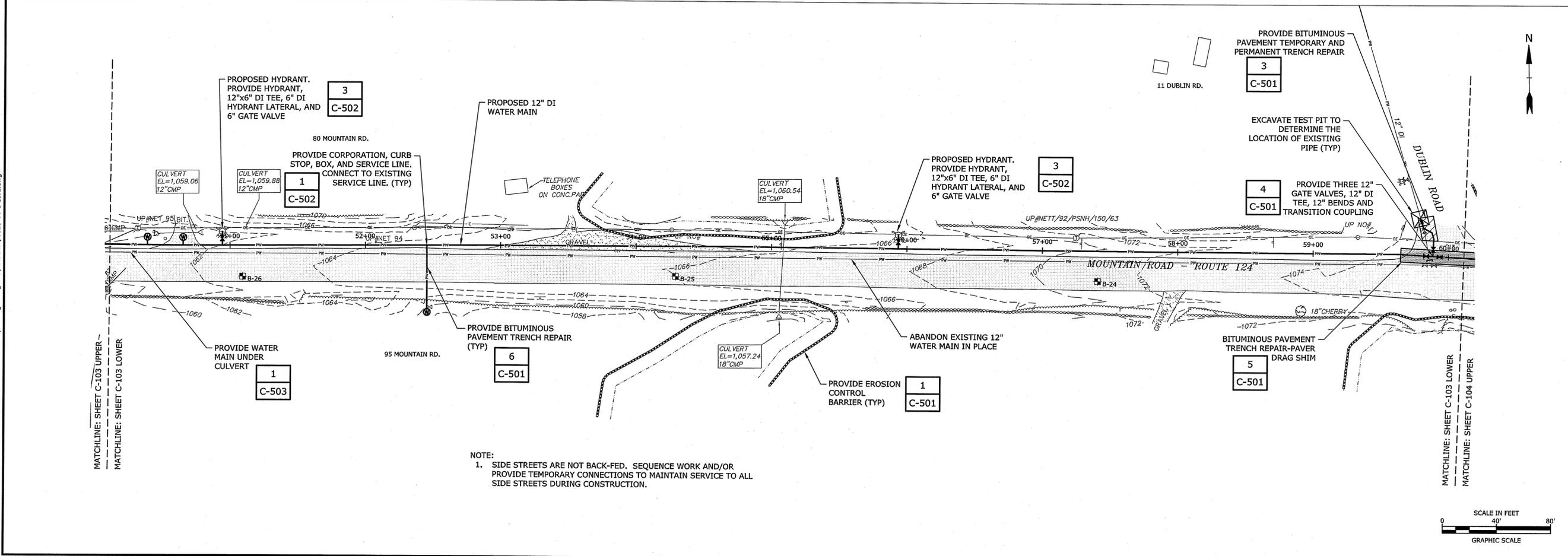
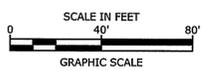
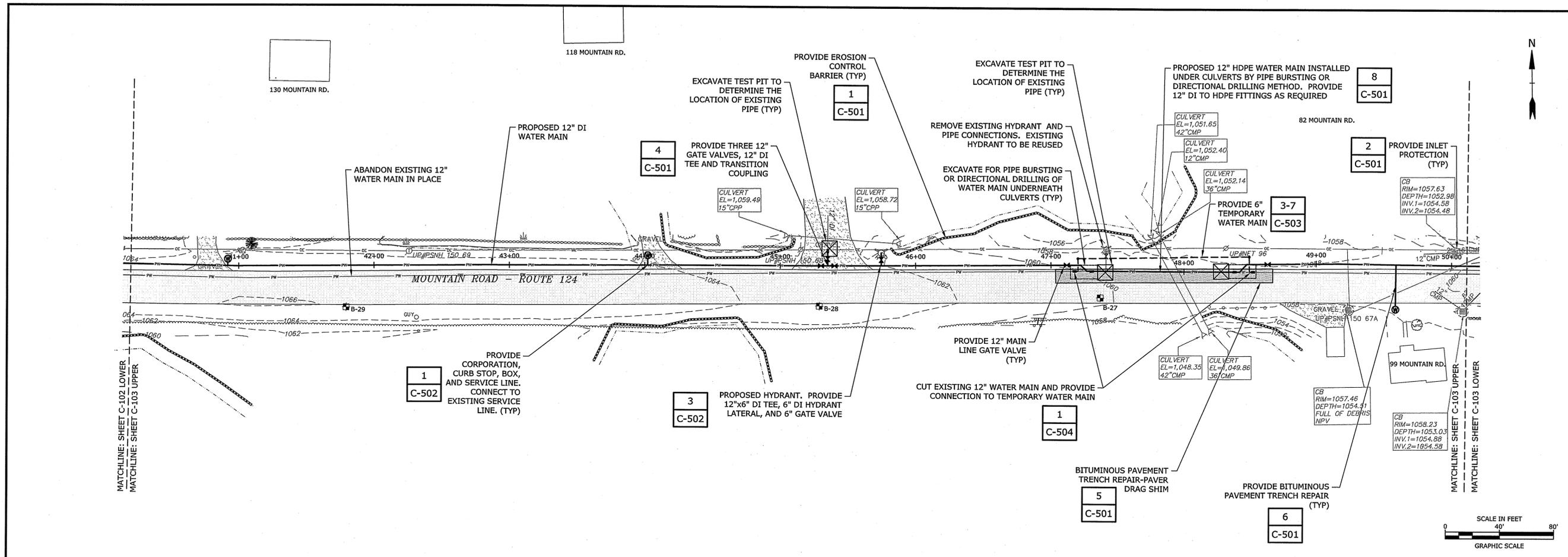
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DATE: 02/02/2016		
FILE: 0020-44-C-SITE.dwg		
DRAWN BY:		REP, CFY
CHECKED BY:		JNM
APPROVED:		DEP

**PROPOSED WATER MAIN
STA. 40+00 TO 60+00**

SCALE: 1" = 40'

C-103



NOTE:
1. SIDE STREETS ARE NOT BACK-FED. SEQUENCE WORK AND/OR PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE TO ALL SIDE STREETS DURING CONSTRUCTION.

Feb 09, 2016 8:32am Plotted By: CFY
Tighe & Bond, Inc. J:\1\0020\Mountain Rd and Main Street Water Mains\Drawings & Figures\AutoCAD\020-44-C-SITE.dwg



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

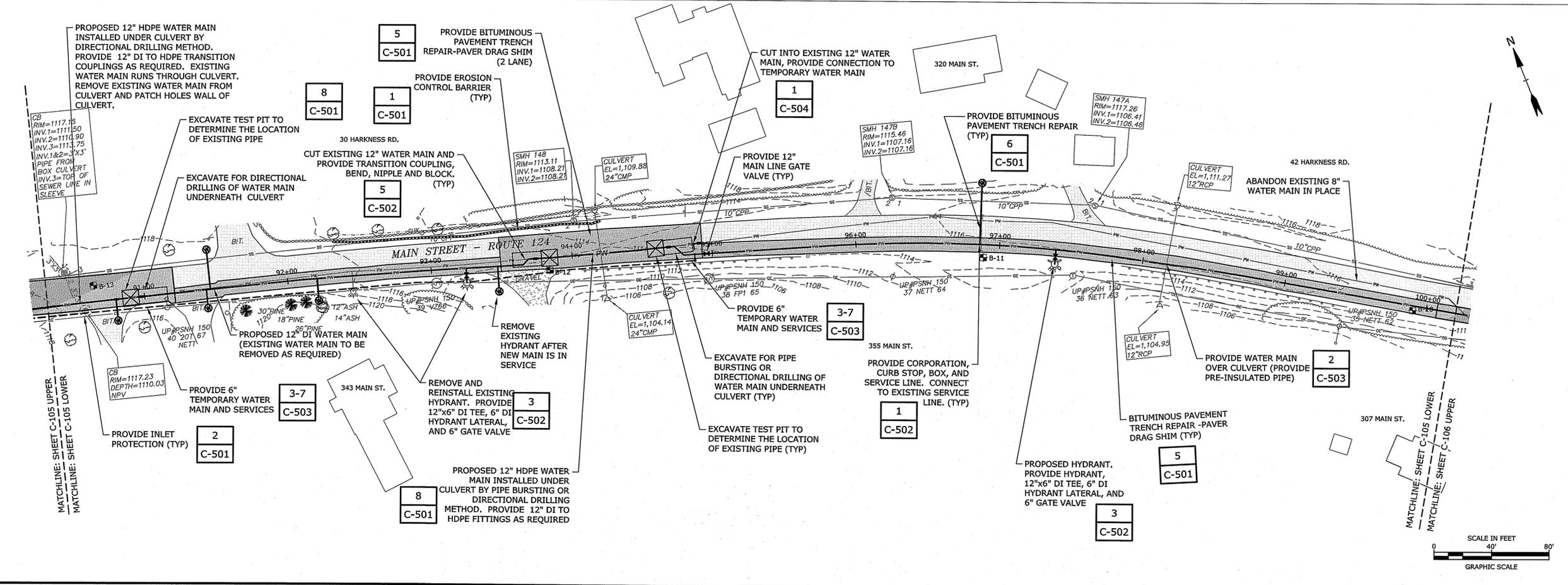
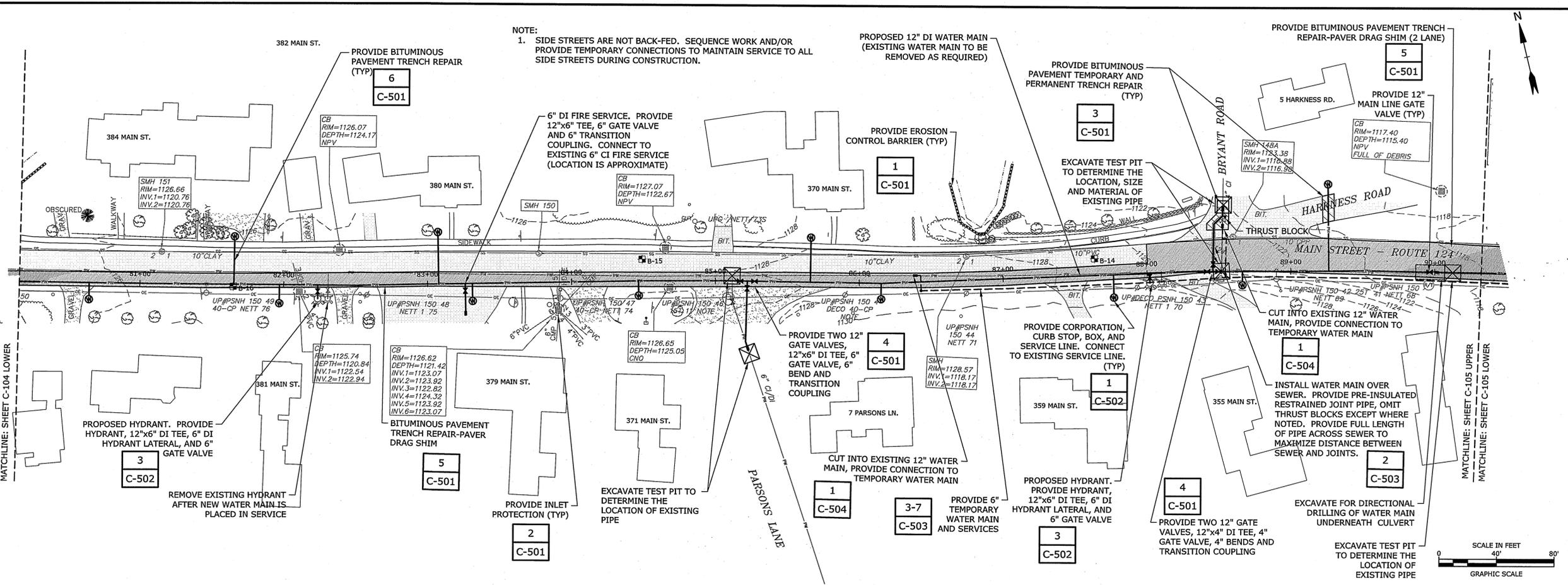
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BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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DATE:	02/02/2016	
FILE:	30020-44-C-SITE.dwg	
DRAWN BY:	REP, CFY	
CHECKED:	JNM	
APPROVED:		

PROPOSED WATER MAIN STA. 80+00 TO 100+00

SCALE: 1" = 40'

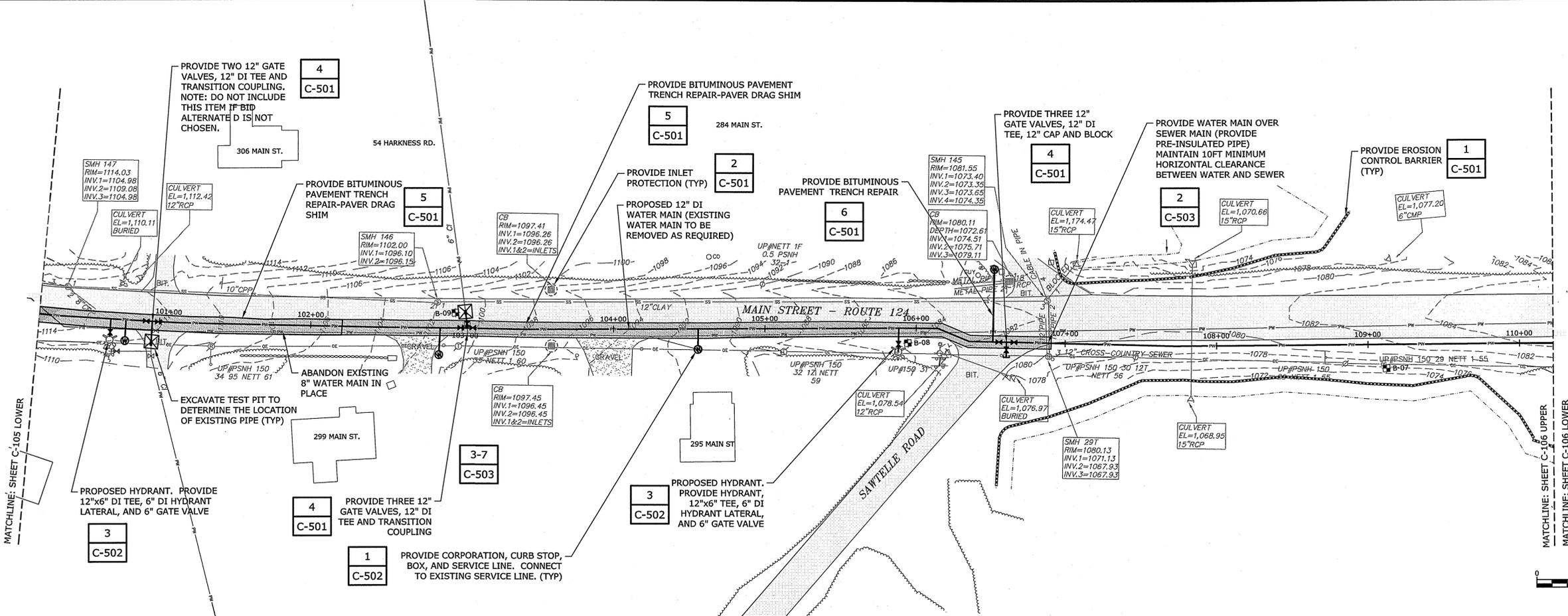
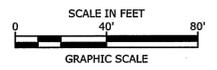
C-105



Feb 09, 2016-12:57pm Plotted By: CFY
Tighe & Bond, Inc. 3:13:0020Mountain Rd and Main Street Water Mains Drawings & Figures AutoCAD 20020-44-C-SITE.dwg

STATE OF NEW HAMPSHIRE
DAVID E. PINSKY
No. 12748
LICENSED PROFESSIONAL ENGINEER
2-8-16

STATE OF NEW HAMPSHIRE
JOHN N. McLELLAN
No. 11488
LICENSED PROFESSIONAL ENGINEER
2.8.16

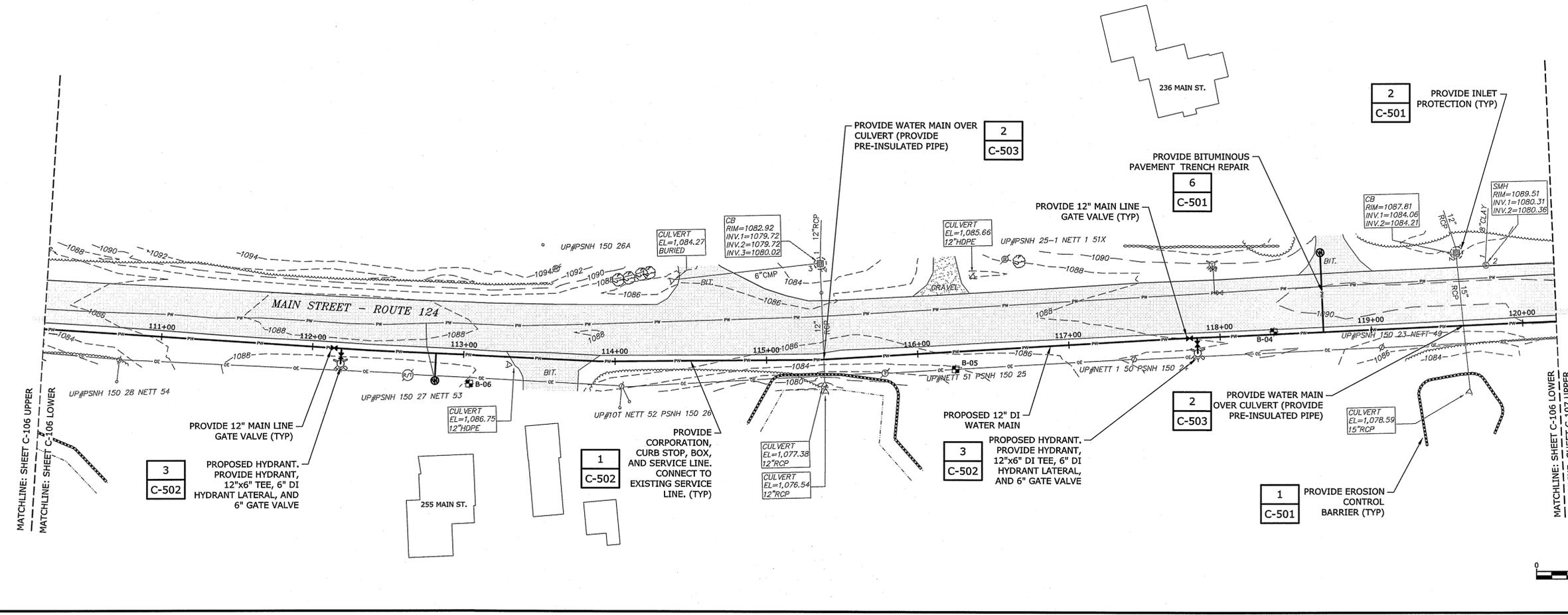
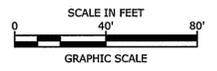


Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



Feb 09, 2016 08:23am Plotted By: CFY
Tighe & Bond, Inc. 23 D0020 Mountain Rd and Main Street Water Mains Drawings & Figures\Avec\2016\02-04-C-SITE.dwg

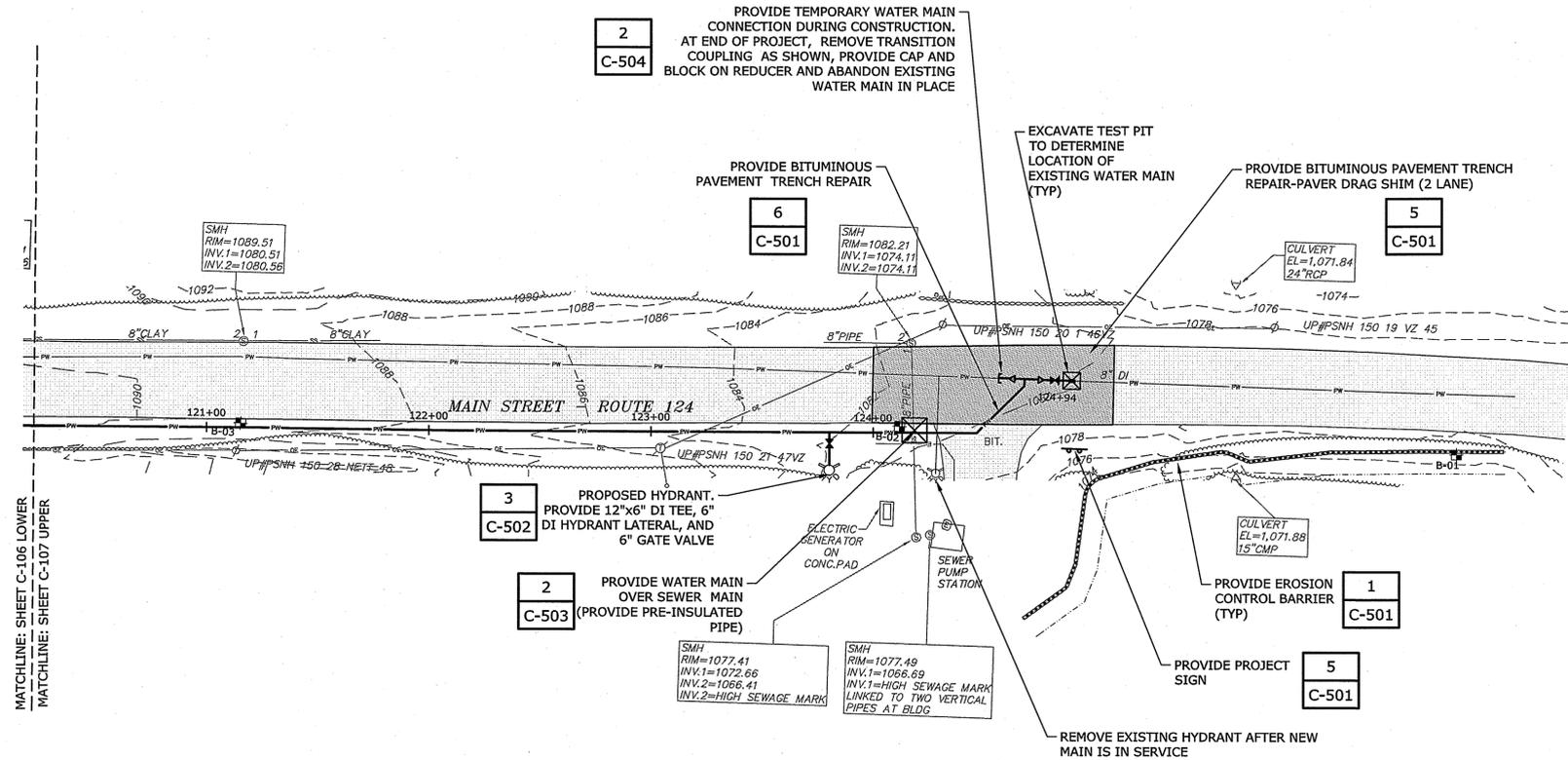
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DATE:	02/02/2016
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APPROVED:	DEP

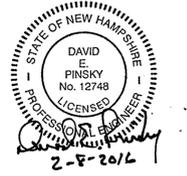
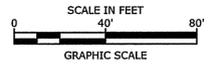
PROPOSED WATER MAIN
STA. 100+00 TO 120+00

SCALE: 1" = 40'

C-106



MATCHLINE: SHEET C-106 LOWER
MATCHLINE: SHEET C-107 UPPER

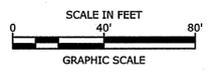
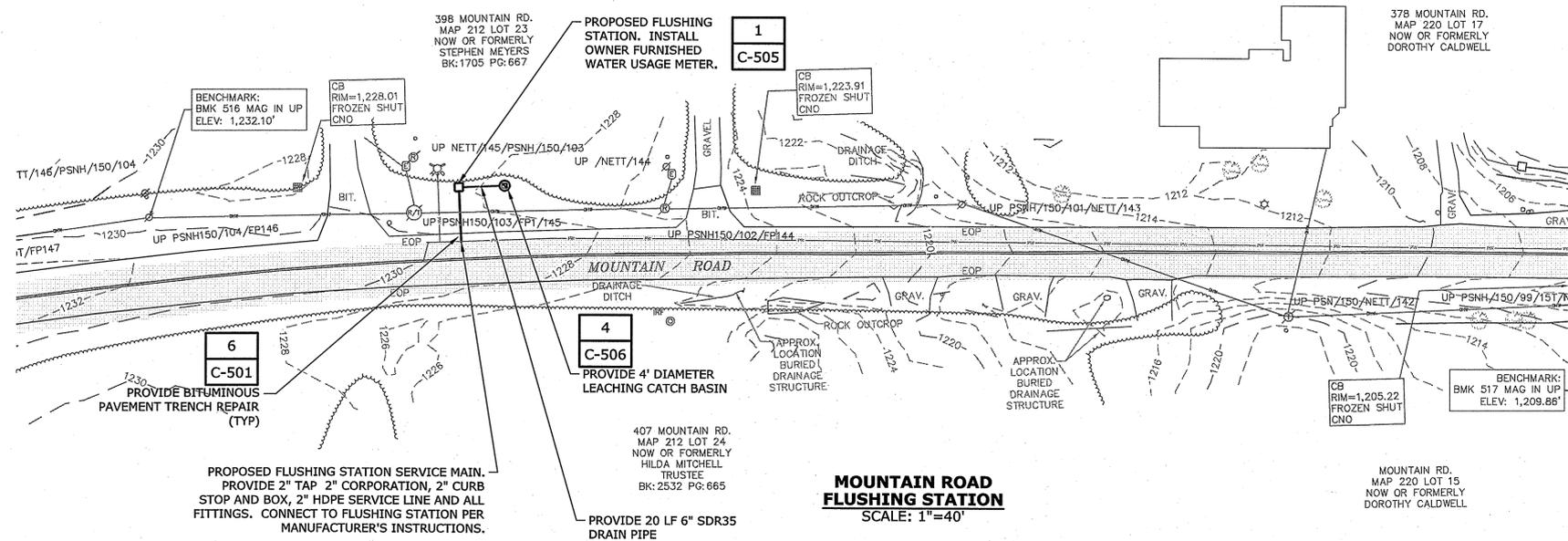


Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

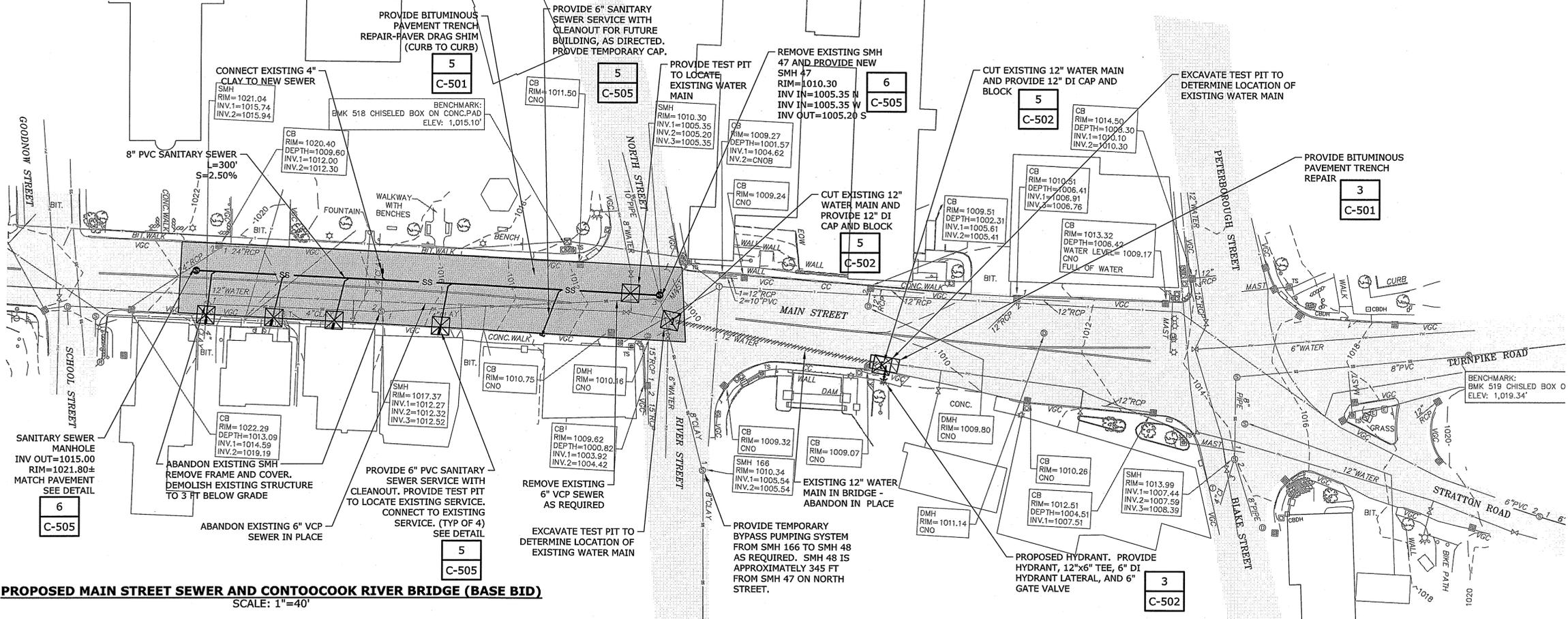
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



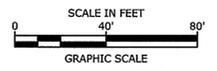
PROPOSED WATER MAIN STA. 120+00 TO 124+71 AND FLUSHING STATION

SCALE: 1" = 40'

C-107



PROPOSED MAIN STREET SEWER AND CONTOCOOK RIVER BRIDGE (BASE BID)
SCALE: 1"=40'

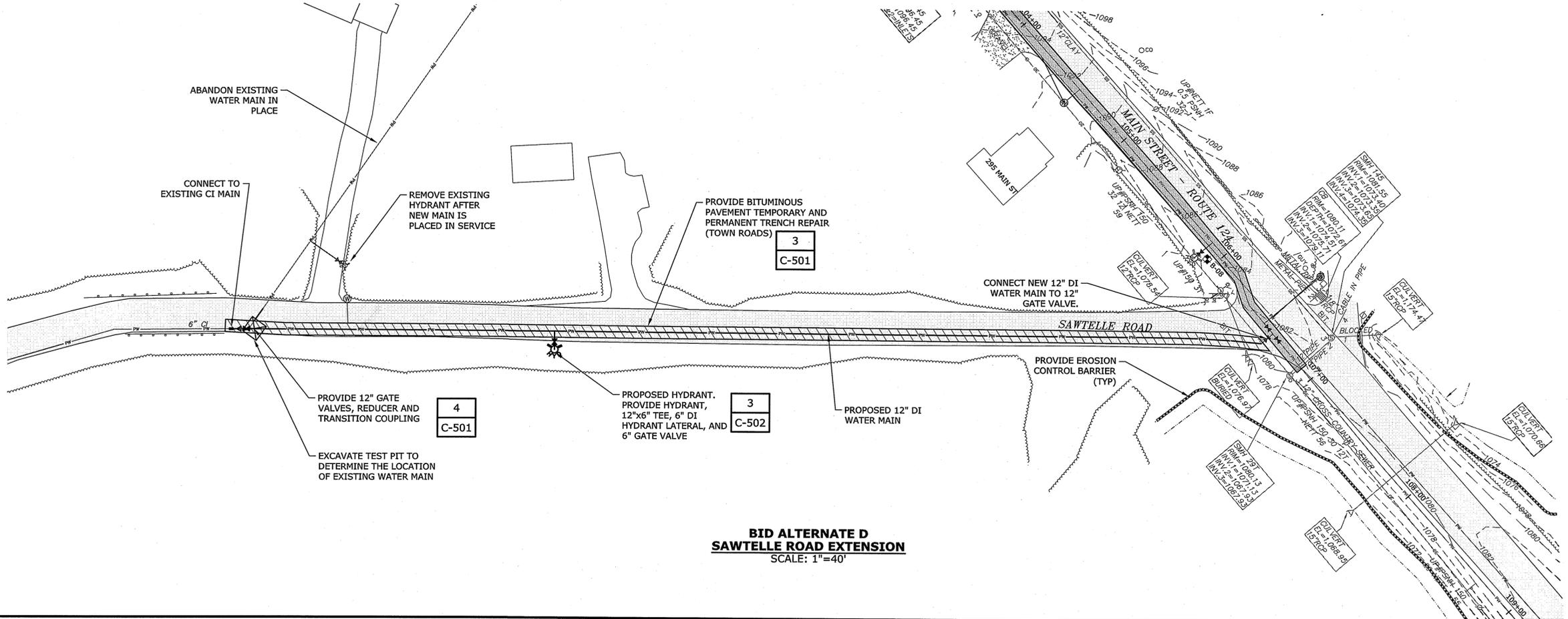


Mountain Road and Main Street Water Main Replacement

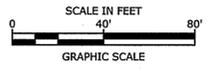
Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



**BID ALTERNATE D
SAWTELLE ROAD EXTENSION**
SCALE: 1"=40'



MARK	DATE	DESCRIPTION
0	02/2016	Issued for Construction

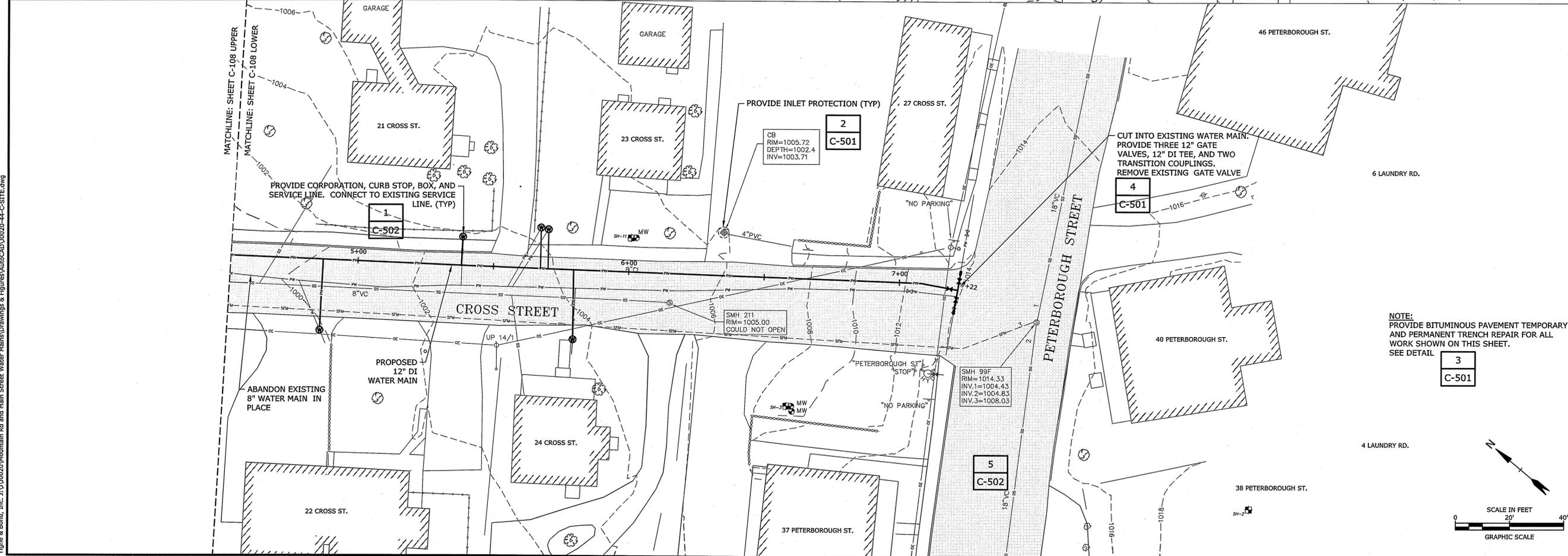
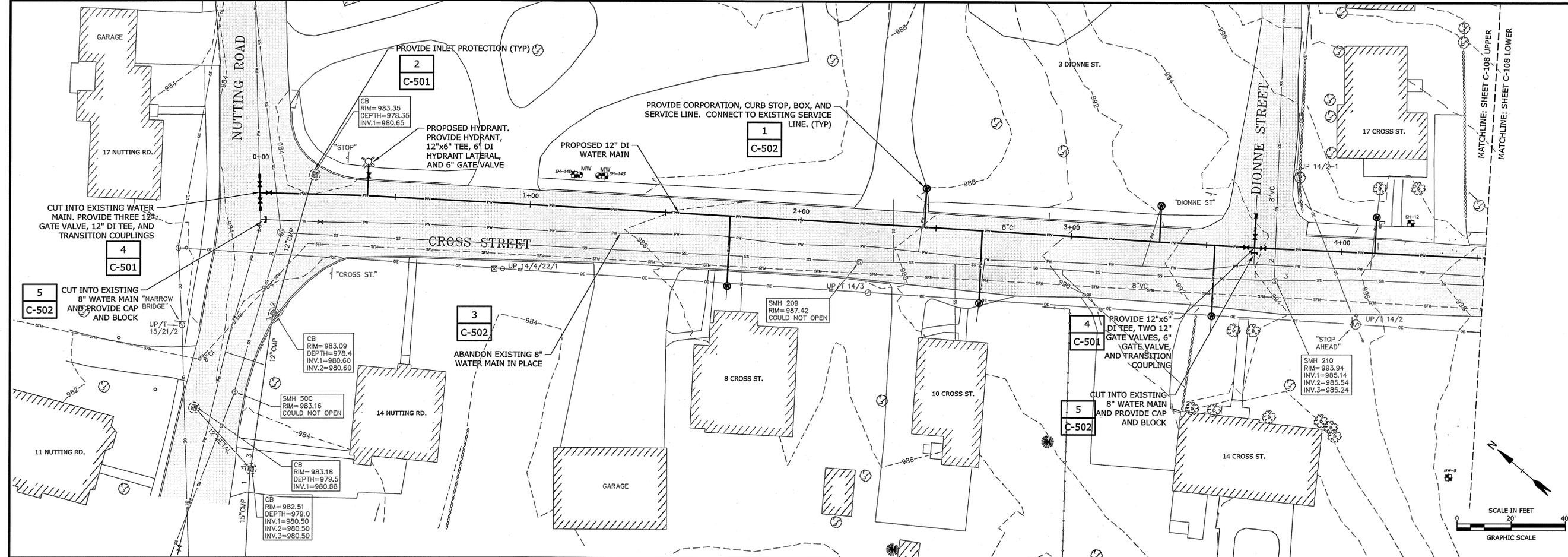
PROJECT NO: 30020-44
DATE: 02/02/2016
FILE: 30020-44-C-SITE.dwg

SCALE: 1" = 40'

Feb 09, 2016, 8:32am, Picked, Rev. CFY, Tighe & Bond, Inc. 2/1/2020 Mountain Rd and Main Street Water Mains Drawings & Figures\Aucca\02020-44-C-SITE.dwg

STATE OF NEW HAMPSHIRE
DAVID E. PINSKY
No. 12748
LICENSED PROFESSIONAL ENGINEER
2-8-16

STATE OF NEW HAMPSHIRE
JOHN McCLELLAN
No. 11499
LICENSED PROFESSIONAL ENGINEER
2-8-16



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
0 1 INCH
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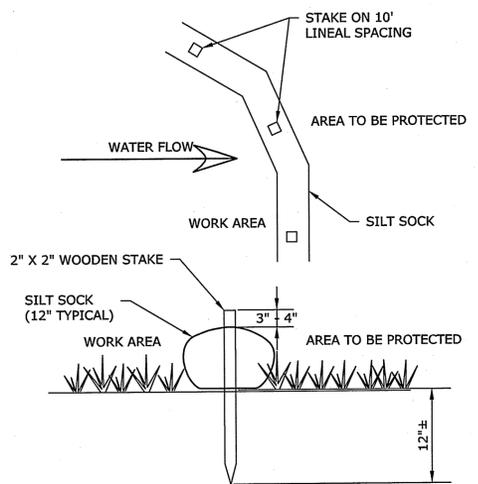
NOTE:
PROVIDE BITUMINOUS PAVEMENT TEMPORARY AND PERMANENT TRENCH REPAIR FOR ALL WORK SHOWN ON THIS SHEET. SEE DETAIL

0	02/2016	Issued for Construction
MARK	DATE	DESCRIPTION
PROJECT NO: 30020-44		
DATE: 02/02/2016		
FILE: 30020-44-C-SITE.dwg		
DRAWN BY:	REP, CFY	
CHECKED:	JNM	
APPROVED:	DEP	

CROSS STREET WATER MAIN REPLACEMENT BID ALTERNATE B

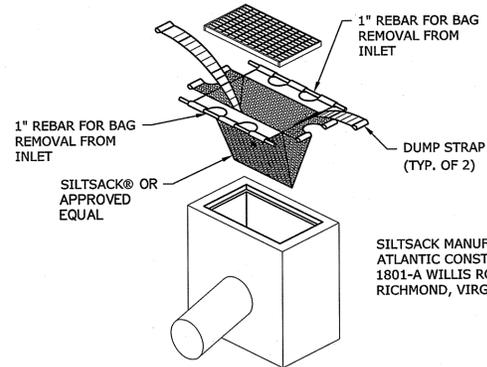
SCALE: 1" = 20'

Feb 09, 2016, 9:39am, Plotted By: CTY, Tighe & Bond, Inc. P:\10020\Mountain Rd and Main Street Water Mains\Drawings & Figures\AuscAD\30020-44-C-SITE.dwg



EROSION CONTROL BARRIER SILT SOXX

DETAIL	1
NO SCALE	-

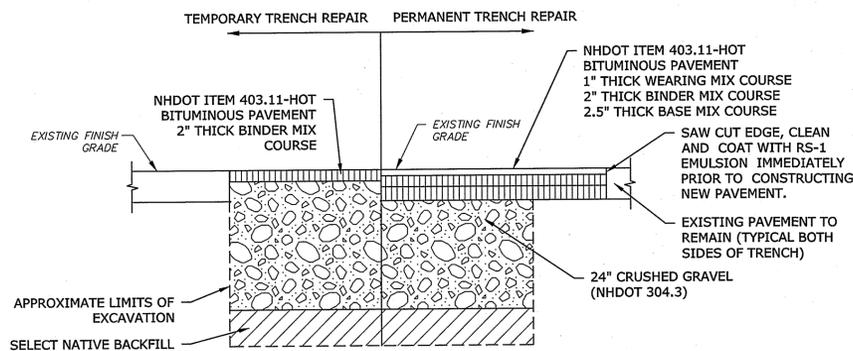


SILTSACK MANUFACTURED BY:
ATLANTIC CONSTRUCTION FABRICS, INC.
1801-A WILLIS ROAD
RICHMOND, VIRGINIA 23237

NOTE:
1. SILTSACKS FOR TRENCH GRATE WILL MATCH OPENING LENGTH AS REQUIRED.

INLET PROTECTION SILT SACK

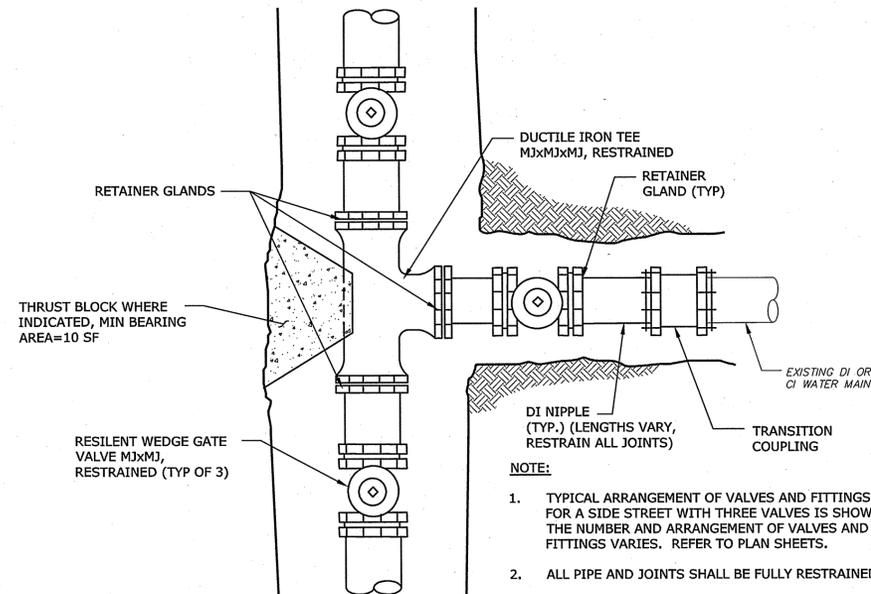
DETAIL	2
NO SCALE	-



NOTE:
1. REMOVE TEMPORARY PAVEMENT AND CRUSHED GRAVEL BASE AS NECESSARY PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
2. FINAL PAVEMENT COURSE TO BE PLACED FLUSH WITH EXISTING PAVEMENT.
3. REFER TO SPECIFICATIONS SECTION 02700 FOR COMPLETE PAVEMENT REPAIR REQUIREMENTS.

BITUMINOUS PAVEMENT TEMPORARY AND PERMANENT TRENCH REPAIR

DETAIL	3
NO SCALE	-

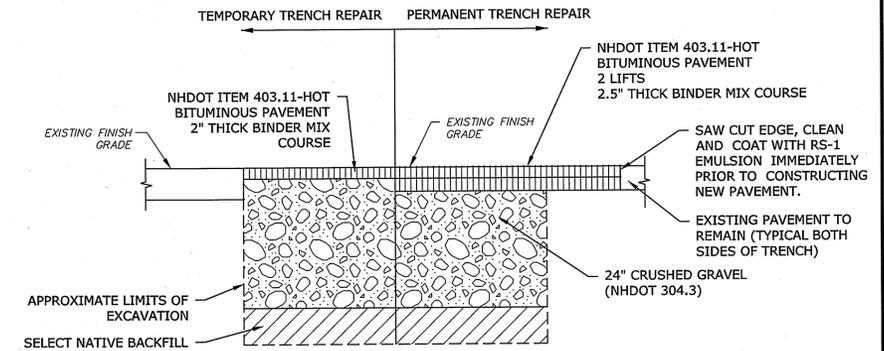


NOTE:

1. TYPICAL ARRANGEMENT OF VALVES AND FITTINGS FOR A SIDE STREET WITH THREE VALVES IS SHOWN. THE NUMBER AND ARRANGEMENT OF VALVES AND FITTINGS VARIES. REFER TO PLAN SHEETS.
2. ALL PIPE AND JOINTS SHALL BE FULLY RESTRAINED.

TYPICAL SIDE STREET CONNECTION

DETAIL	4
NO SCALE	-

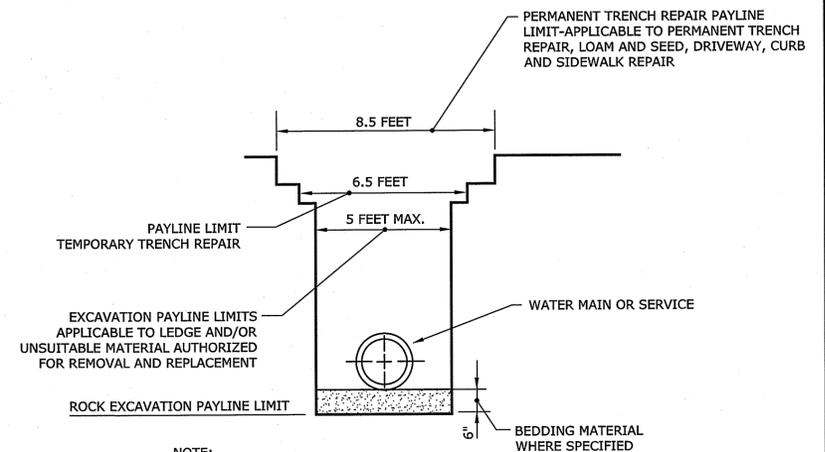


NOTES:

1. FINAL PAVEMENT COURSE TO BE PLACED FLUSH WITH EXISTING PAVEMENT.
2. REFER TO SPECIFICATIONS SECTION 02700 FOR COMPLETE PAVEMENT REPAIR REQUIREMENTS.

BITUMINOUS PAVEMENT TRENCH REPAIR STATE HIGHWAY

DETAIL	6
NO SCALE	-

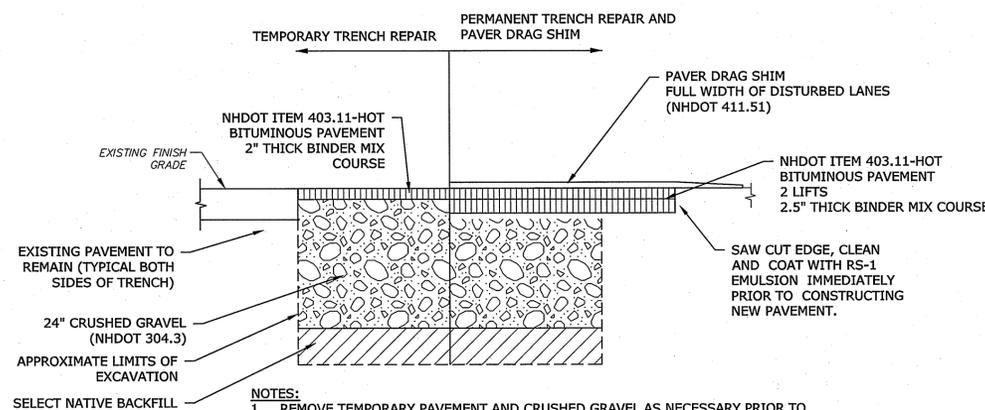


NOTE:

1. THE PAY LINE DIMENSIONS SHOWN REPRESENT THE MAXIMUM PAYLINE LIMITS TO BE PAID. WHEN THE ACTUAL SURFACE REPAIR OR TRENCH WIDTH IS LESS, THE ACTUAL WIDTH WILL BE PAID FOR AT THE APPLICABLE UNIT PRICE.

TRENCH PAY LINES DETAIL

DETAIL	7
NO SCALE	-

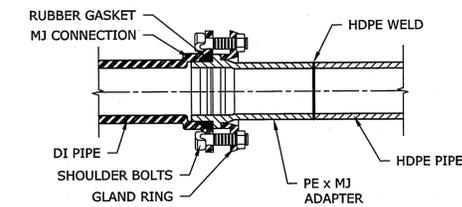


NOTE:

1. REMOVE TEMPORARY PAVEMENT AND CRUSHED GRAVEL AS NECESSARY PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
2. REFER TO SPECIFICATIONS SECTION 02700 FOR COMPLETE PAVEMENT REPAIR REQUIREMENTS.

BITUMINOUS PAVEMENT TRENCH REPAIR PAVER DRAG SHIM

DETAIL	5
NO SCALE	-



NOTE:

1. ALL FITTINGS SHALL BE THE SAME PRESSURE RATING AS THE SYSTEM PIPING.

DI TO HDPE TRANSITION COUPLING

DETAIL	8
NO SCALE	-

Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

VERIFY SCALE

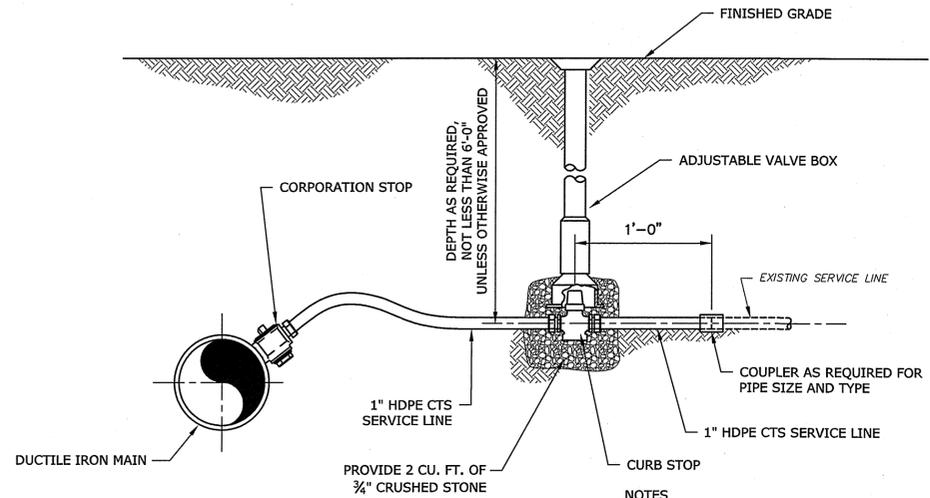
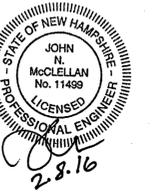
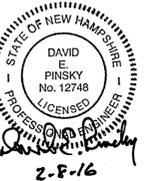
BAR IS 1 INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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		FILE: 30020-44-C-DETAILS.dwg
		DRAWN BY: JNM
		CHECKED BY: JNM
		APPROVED BY: DEP

DETAIL SHEET

SCALE: NO SCALE

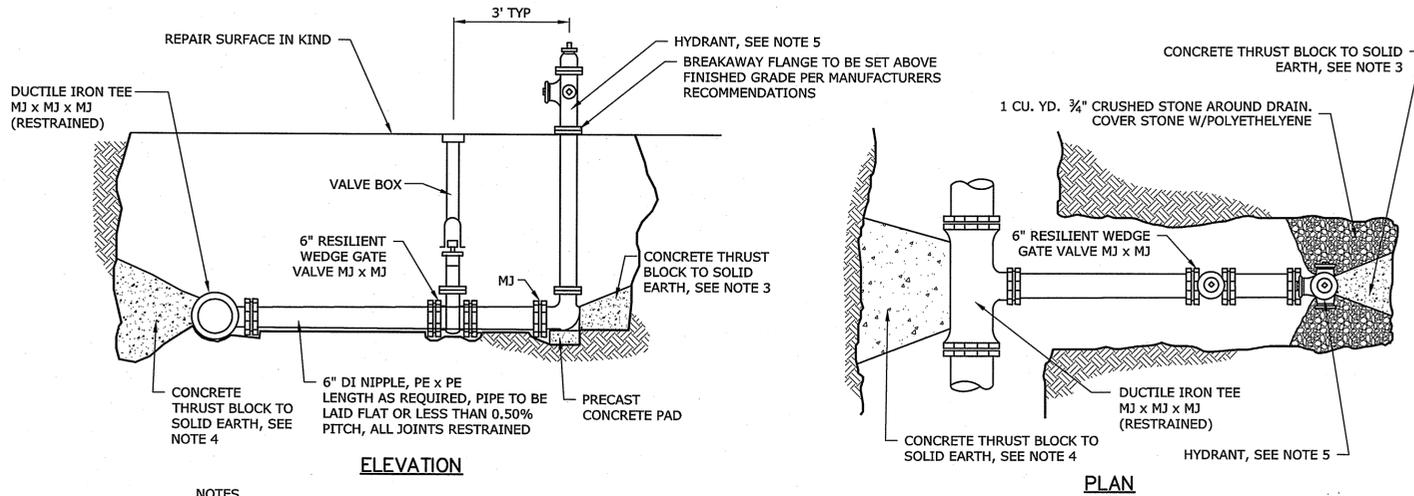
C-501



- NOTES**
1. PROVIDE TRACER WIRE FOR ALL HDPE SERVICE CONNECTIONS.
 2. DETAIL SHOWN IS FOR DUCTILE IRON PIPE.

WATER SERVICE CONNECTION TO DI PIPE

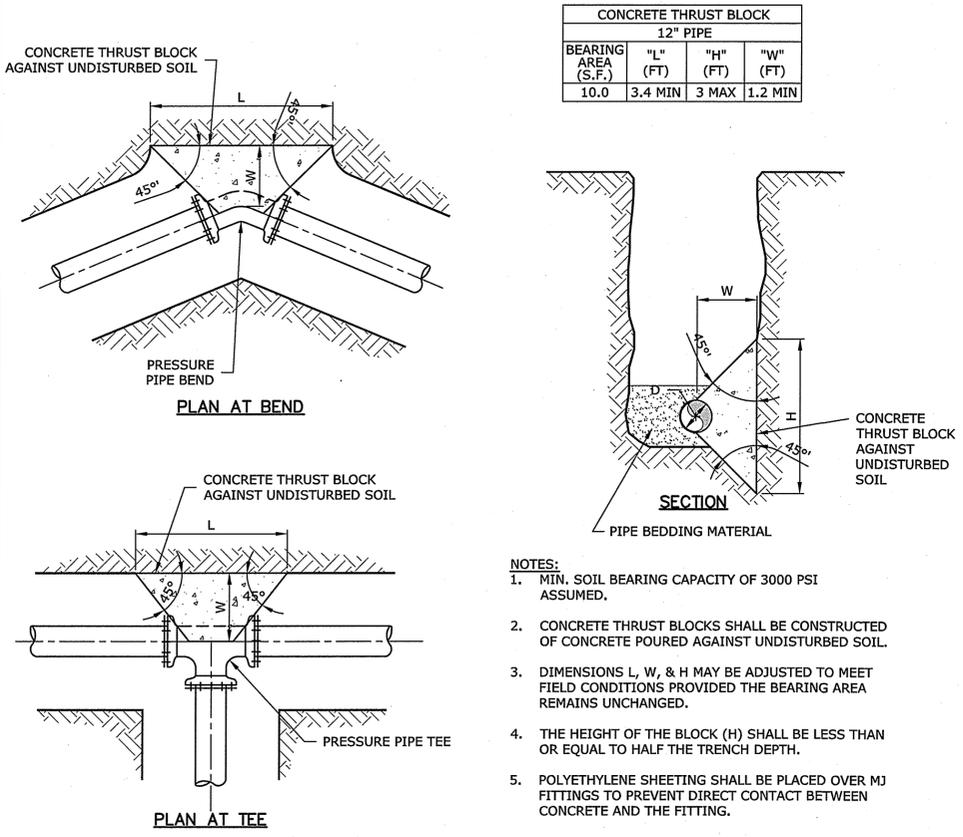
DETAIL	1
NO SCALE	-



- NOTES**
1. ALL CONCRETE TO BE CAST-IN-PLACE (3000 PSI)
 2. ALL MJ JOINTS SHALL HAVE RETAINER GLANDS. PIPE AND FITTINGS SHALL BE FULLY RESTRAINED.
 3. 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.
 4. 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.
 5. HYDRANT SHALL BE WATEROUS PACER WB-67-250. HYDRANT SHALL BE SET PLUMB. VERTICAL HYDRANT EXTENSIONS SHALL BE USED AS NECESSARY TO PROPERLY LOCATE THE BREAKAWAY FLANGE PER MANUFACTURERS RECOMMENDATIONS.
 6. POLYETHYLENE SHEETING SHALL BE PLACED OVER THE FITTING AND/OR HYDRANT BASE TO PREVENT DIRECT CONTACT OF CONCRETE WITH THE FITTING.

DUCTILE IRON WATER MAIN HYDRANT INSTALLATION

DETAIL	3
NO SCALE	-

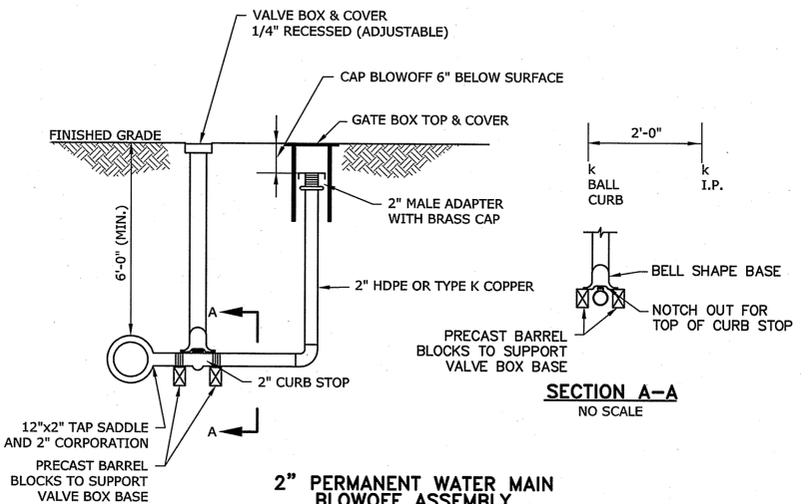


CONCRETE THRUST BLOCK 12" PIPE			
BEARING AREA (S.F.)	"L" (FT)	"H" (FT)	"W" (FT)
10.0	3.4 MIN	3 MAX	1.2 MIN

- NOTES:**
1. MIN. SOIL BEARING CAPACITY OF 3000 PSI ASSUMED.
 2. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE POURED AGAINST UNDISTURBED SOIL.
 3. DIMENSIONS L, W, & H MAY BE ADJUSTED TO MEET FIELD CONDITIONS PROVIDED THE BEARING AREA REMAINS UNCHANGED.
 4. THE HEIGHT OF THE BLOCK (H) SHALL BE LESS THAN OR EQUAL TO HALF THE TRENCH DEPTH.
 5. POLYETHYLENE SHEETING SHALL BE PLACED OVER MJ FITTINGS TO PREVENT DIRECT CONTACT BETWEEN CONCRETE AND THE FITTING.

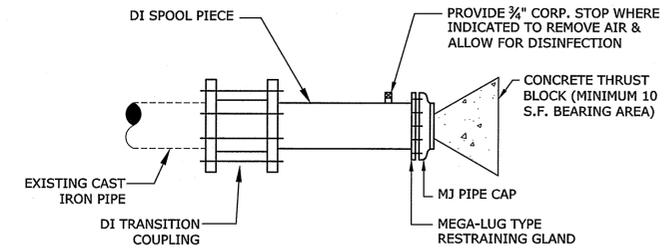
CONCRETE THRUST BLOCK FOR HORIZONTAL BENDS AND TEES

DETAIL	2
NO SCALE	-



2" PERMANENT WATER MAIN BLOWOFF ASSEMBLY

DETAIL	4
NO SCALE	-



CAST IRON PIPE CAPPING DETAIL

DETAIL	5
NO SCALE	-

Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

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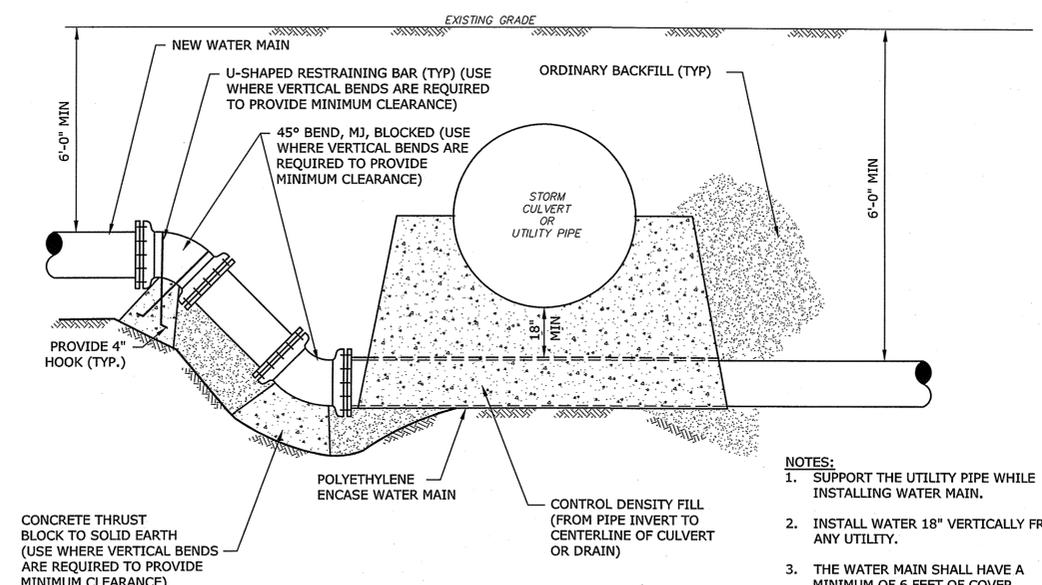
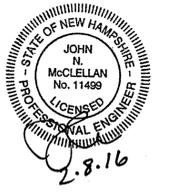
MARK	DATE	DESCRIPTION
0	02/2016	Issued for Construction

PROJECT NO: 30020-44
DATE: 02/02/2016
FILE: 30020-44-C-DETAILS.dwg
DRAWN BY: REP, CFY
CHECKED: JNM
APPROVED: DEP

DETAIL SHEET

SCALE: NO SCALE

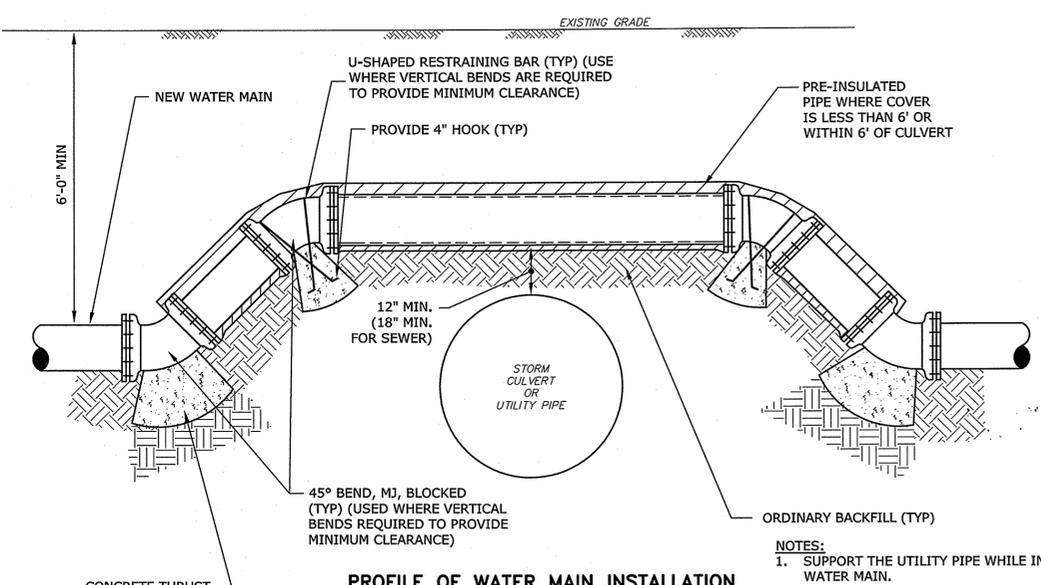
C-502



- NOTES:**
- SUPPORT THE UTILITY PIPE WHILE INSTALLING WATER MAIN.
 - INSTALL WATER 18" VERTICALLY FROM ANY UTILITY.
 - THE WATER MAIN SHALL HAVE A MINIMUM OF 6 FEET OF COVER.
 - PIPE SHALL BE FULLY RESTRAINED MINIMUM 48' EACH SIDE OF ELBOWS.

PROFILE OF WATER MAIN INSTALLATION AT UTILITY CROSSING - UNDER UTILITY

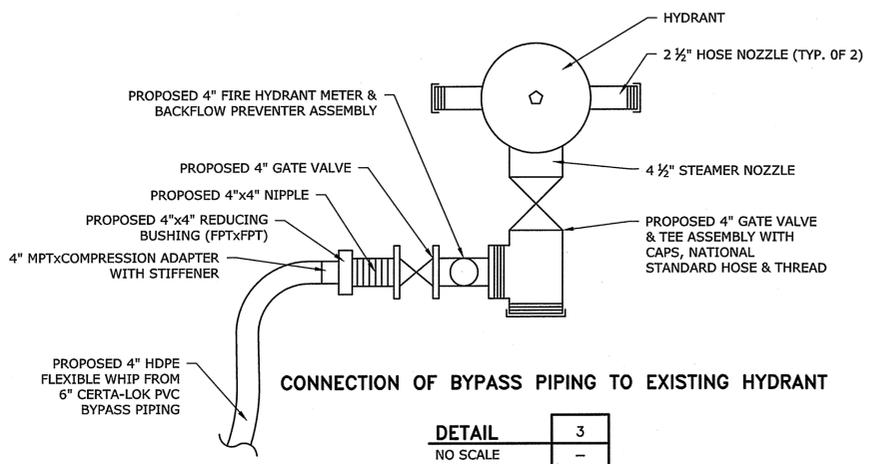
DETAIL	1
NO SCALE	-



- NOTES:**
- SUPPORT THE UTILITY PIPE WHILE INSTALLING WATER MAIN.
 - INSTALL WATER 12" VERTICALLY FROM UTILITY, 18" VERTICALLY FROM SEWER.
 - PIPE SHALL BE FULLY RESTRAINED MINIMUM 18' EACH SIDE OF ELBOWS.

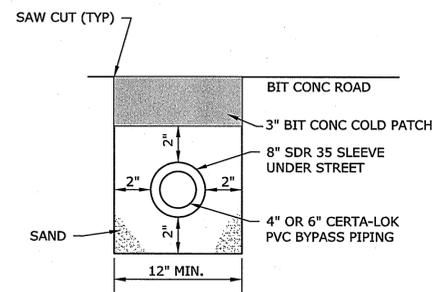
PROFILE OF WATER MAIN INSTALLATION AT UTILITY CROSSING - OVER UTILITY

DETAIL	2
NO SCALE	-



CONNECTION OF BYPASS PIPING TO EXISTING HYDRANT

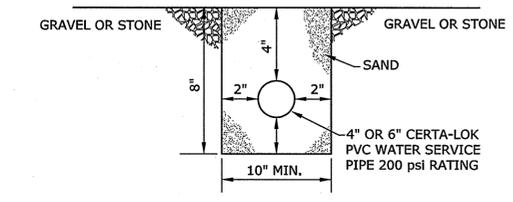
DETAIL	3
NO SCALE	-



- NOTES:**
- AFTER BYPASS PIPING IS REMOVED, REPAIR AS SHOWN IN DETAIL

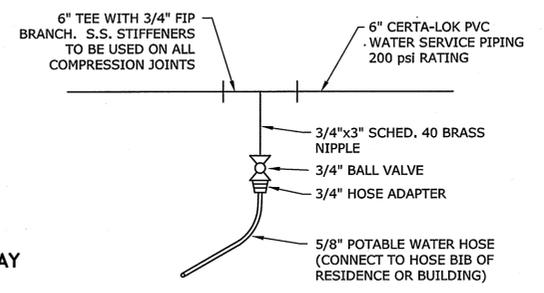
TYPICAL BYPASS PIPING - STREET CROSSING

DETAIL	4
NO SCALE	-



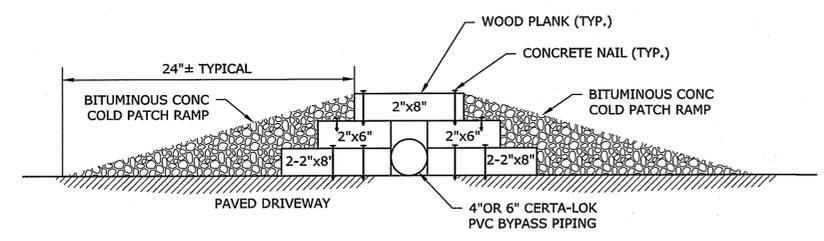
BYPASS PIPING CROSSING A STONE OR GRAVEL DRIVEWAY

DETAIL	5
NO SCALE	-



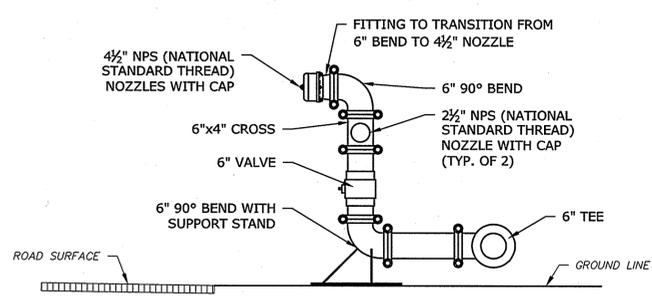
TEMPORARY WATER SERVICE CONNECTION

DETAIL	6
NO SCALE	-



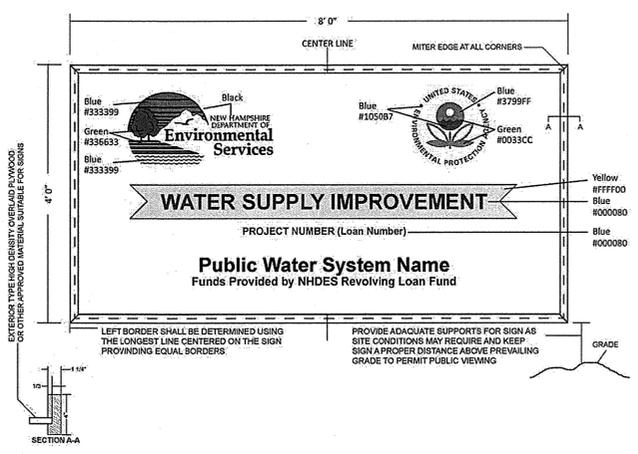
TYPICAL BYPASS PIPING - PAVED DRIVEWAY CROSSING

DETAIL	7
NO SCALE	-



TEMPORARY HYDRANT DETAIL

DETAIL	8
NO SCALE	-



- NOTES:**
- THE FOLLOWING WORDS SHALL BE PLACED IN THE AREA RESERVED FOR THE PROJECT NAME
MOUNTAIN ROAD AND MOUNTAIN ROAD
WATER MAIN REPLACEMENT
TOWN OF JAFFREY
 - THE PROJECT NUMBER IS 190020-44.

SRF PROJECT SIGN

DETAIL	5
NO SCALE	-

Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

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PROJECT NO:	J0020-44	
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FILE:	J0020-44-C-DETAILS.dwg	
DRAWN BY:	REP, CFY	
CHECKED:	JNM	
APPROVED:	DEP	

DETAIL SHEET

SCALE: NO SCALE

C-503

STATE OF NEW HAMPSHIRE
DAVID E. PINSKY
No. 12748
LICENSED PROFESSIONAL ENGINEER
2-8-16

STATE OF NEW HAMPSHIRE
JOHN N. MCLELLAN
No. 11499
LICENSED PROFESSIONAL ENGINEER
2-8-16

Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

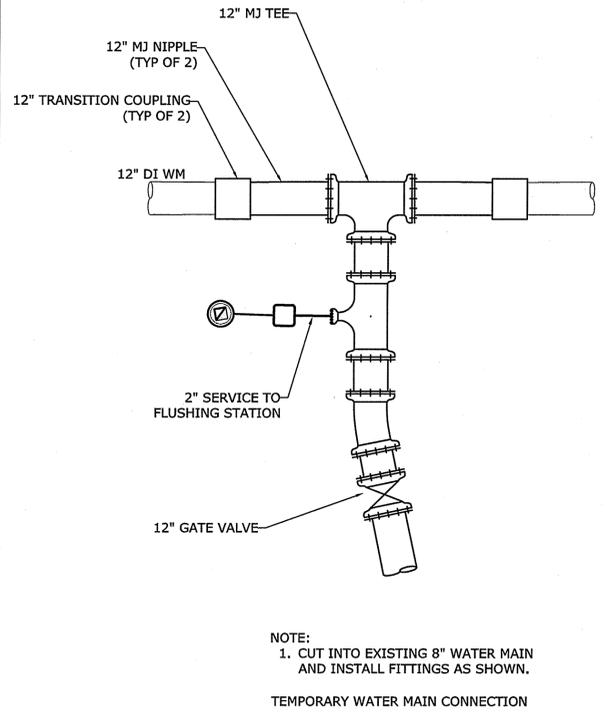
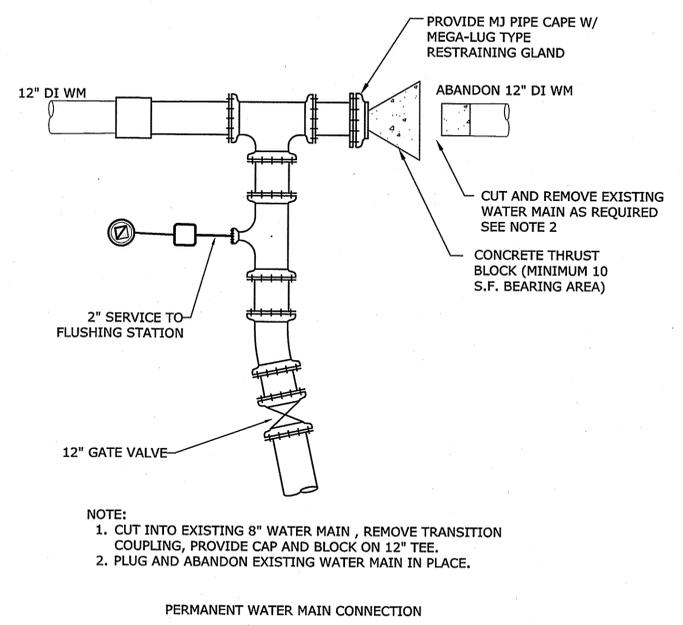
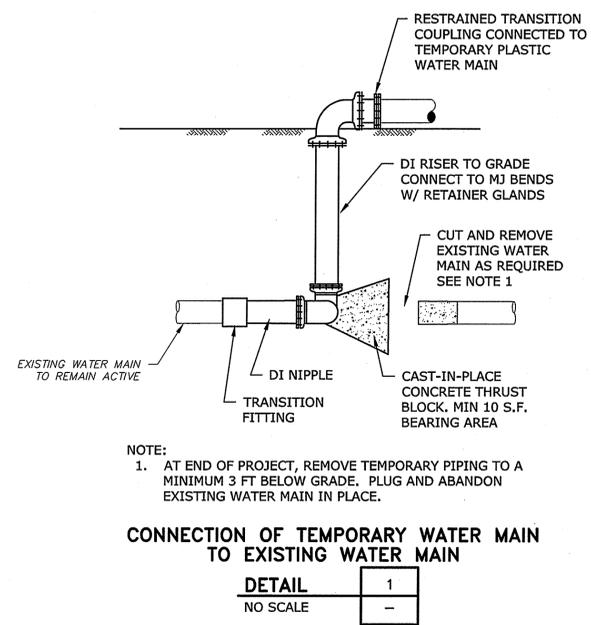
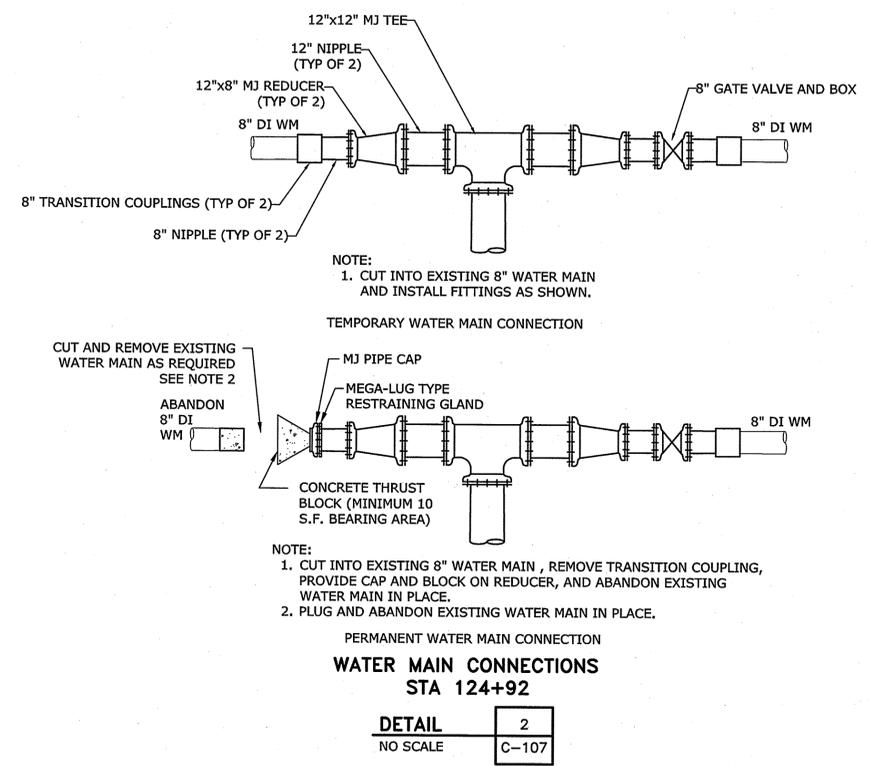
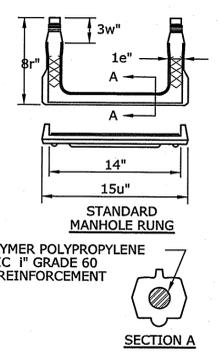
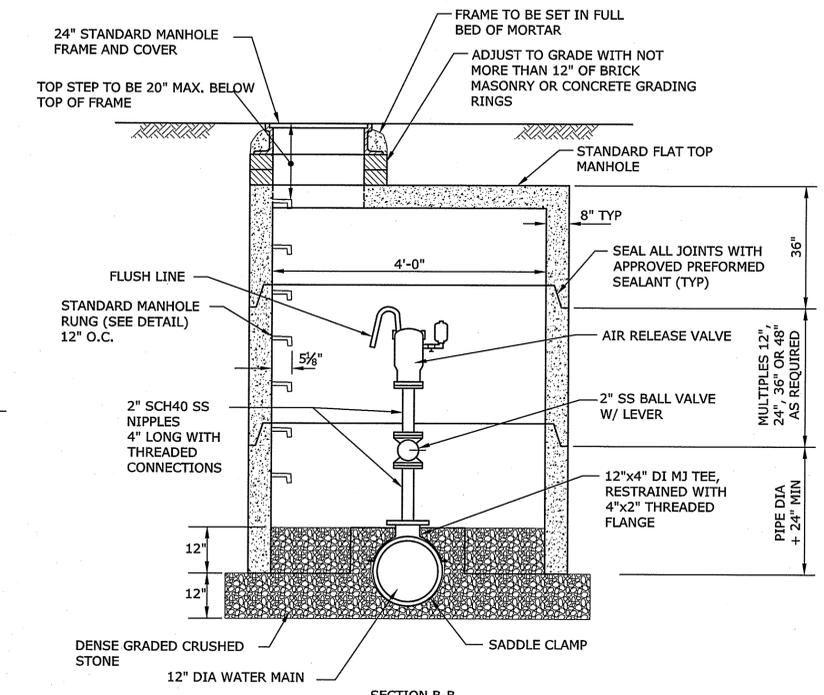
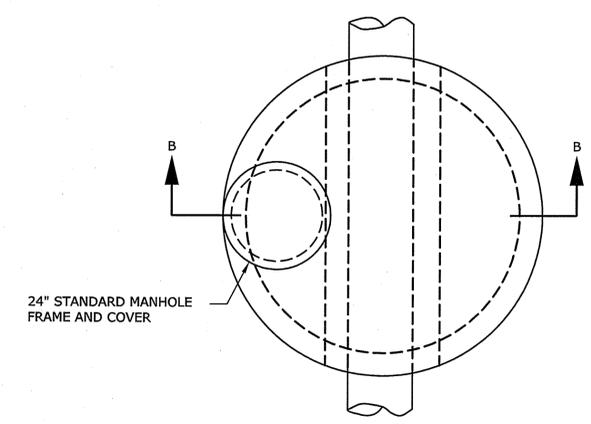
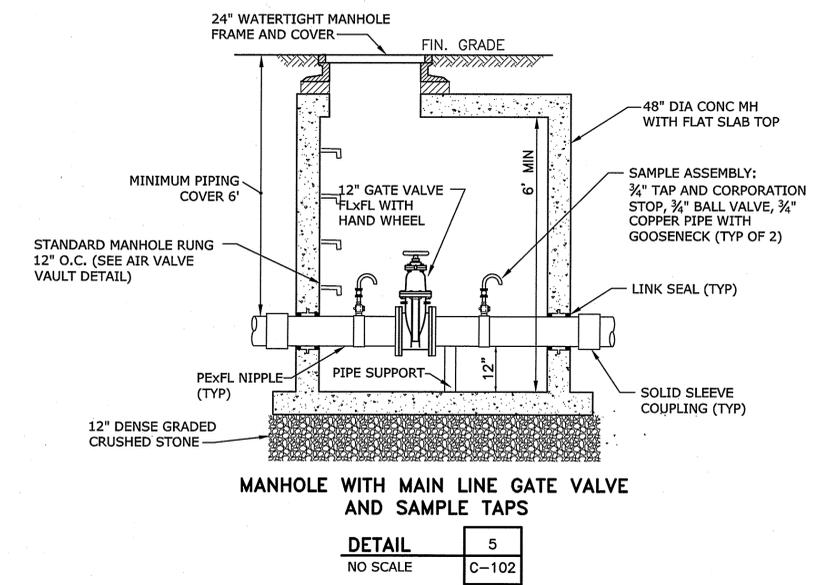
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APPROVED:	DEP	

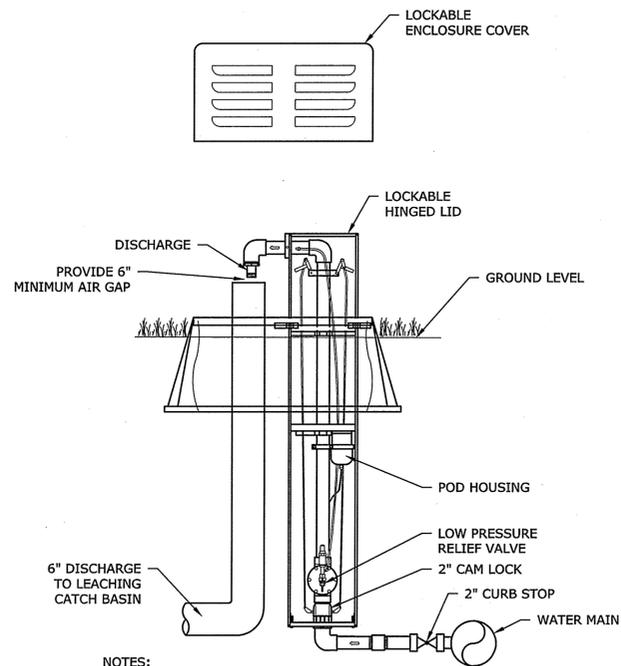
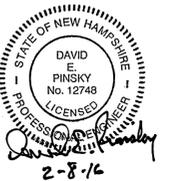
DETAIL SHEET

SCALE: NO SCALE

C-504



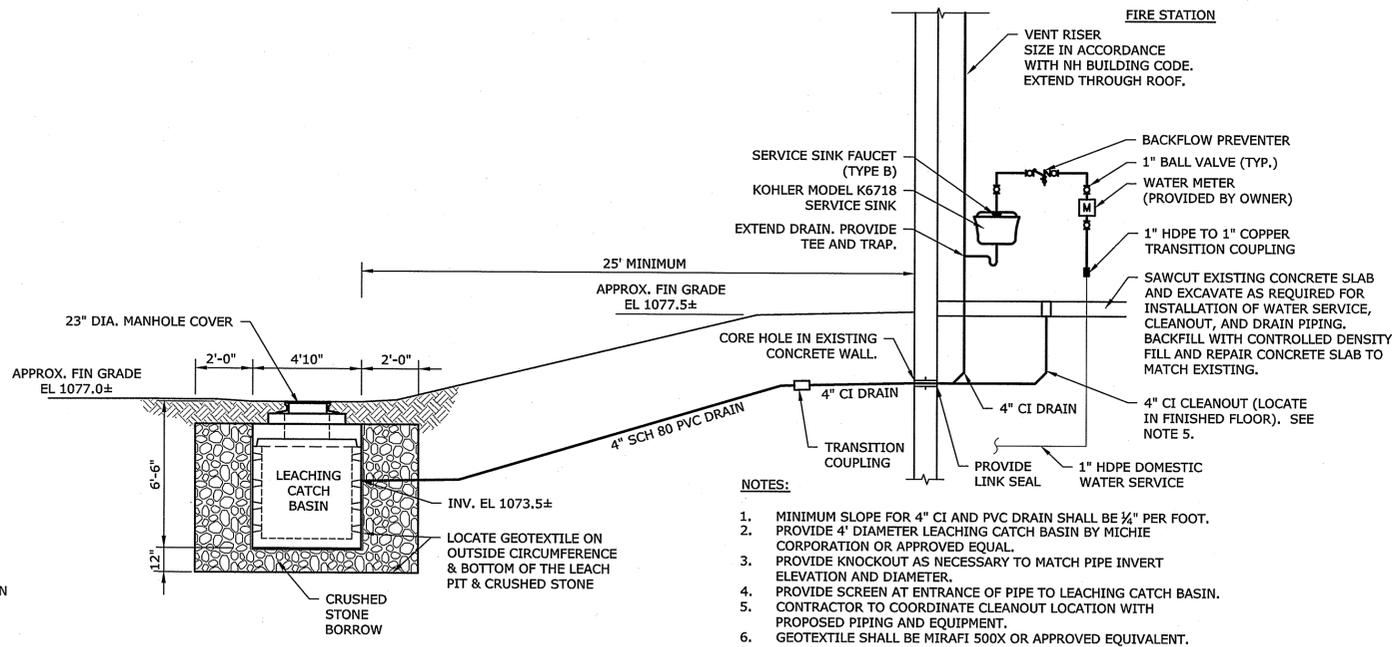
Feb 09 2016 8:24am Plotted By: CFY
Tighe & Bond, Inc. 31102020 Mountain Rd and Main Street Water Mains Drawings & Figures Autocad 2010-44-C-DETAILS.dwg



- NOTES:**
1. FLUSHING STATION SHALL BE MUELLER HYDROGUARD HG-4.
 2. REFER TO SPECIFICATION SECTION 02518 FOR FLUSHING STATION REQUIREMENTS.

**AUTOMATIC FLUSHING STATION
HYDROGUARD HG-4**

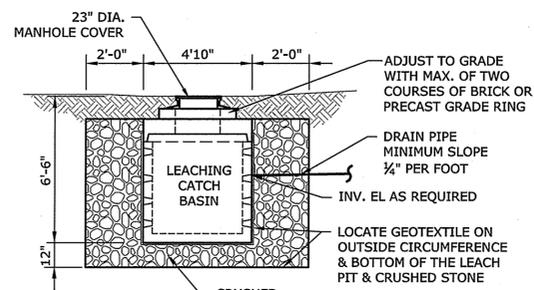
DETAIL	1
NO SCALE	-



- NOTES:**
1. MINIMUM SLOPE FOR 4" CI AND PVC DRAIN SHALL BE 1/4" PER FOOT.
 2. PROVIDE 4" DIAMETER LEACHING CATCH BASIN BY MICHIE CORPORATION OR APPROVED EQUAL.
 3. PROVIDE KNOCKOUT AS NECESSARY TO MATCH PIPE INVERT ELEVATION AND DIAMETER.
 4. PROVIDE SCREEN AT ENTRANCE OF PIPE TO LEACHING CATCH BASIN. CONTRACTOR TO COORDINATE CLEANOUT LOCATION WITH PROPOSED PIPING AND EQUIPMENT.
 5. GEOTEXTILE SHALL BE MIRAFI 500X OR APPROVED EQUIVALENT.

SAMPLING STATION AND DRYWELL

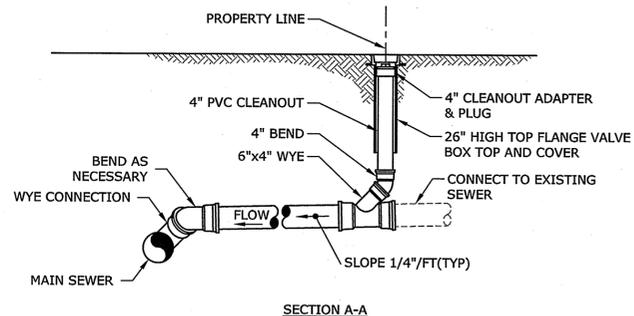
DETAIL	2
NO SCALE	-



- NOTES:**
1. PROVIDE 4" DIAMETER LEACHING CATCH BASIN BY MICHIE CORPORATION OR APPROVED EQUAL.
 2. PROVIDE SCREEN AT ENTRANCE OF PIPE TO LEACHING CATCH BASIN. GEOTEXTILE SHALL BE MIRAFI 500X OR APPROVED EQUIVALENT.
 3. MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI @ 28 DAYS PER ASTM C-478 (6.1). CEMENT SHALL BE PER ASTM C-150.
 5. DESIGN LOADING: AASHTO HS20-44.
 6. STEEL REINFORCEMENT: CIRCUMFERENTIAL REINFORCEMENT SHALL CONFORM TO ASTM A-185. TOP AND BOTTOM REINFORCEMENT SHALL CONFORM TO ASTM A-615, GRADE 60 DEFORMED BARS. REINFORCEMENT SHALL BE PLACED PER ASTM C-478.
 7. SLAB TOP REINFORCED WITH #5 REBAR.
 8. PROVIDE BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M198.
 9. PROVIDE TWO COATS OF FACTORY APPLIED BITUMINOUS ASPHALT COATING.

LEACHING CATCH BASIN

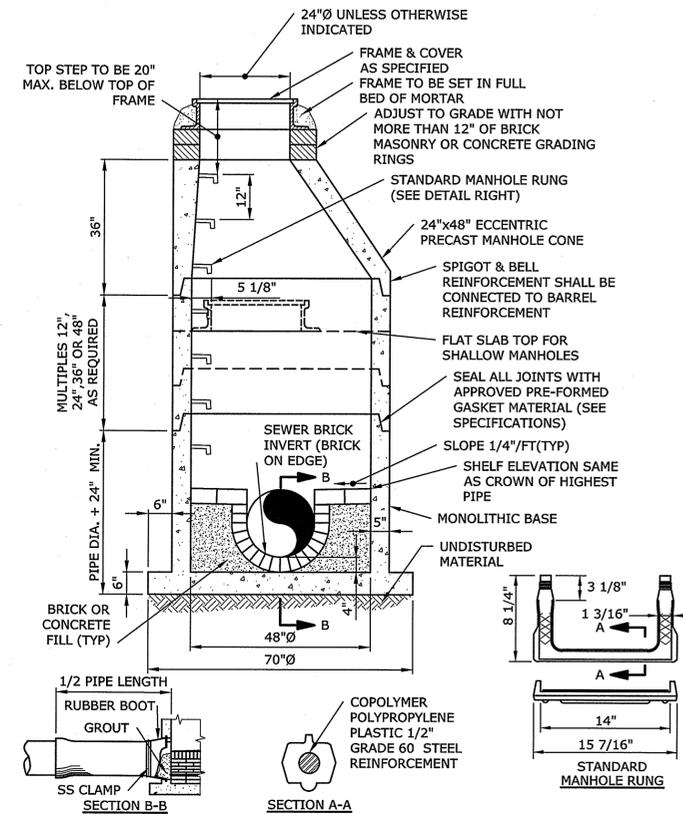
DETAIL	4
NO SCALE	-



- NOTES:**
1. MINIMUM PITCH FOR SERVICE LATERALS IS 1/4" PER FOOT.
 2. LOCATIONS OF SERVICE LATERALS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 3. THIS DETAIL IS APPLICABLE FOR SEWER MAIN PIPE DIAMETERS UP TO 27". FOR LARGER PIPE THE CONTRACTOR SHALL PROVIDE 6" CONNECTION WITH SADDLE AND TAP.

**SANITARY SERVICE
LATERAL WITH CLEANOUT**

DETAIL	5
NO SCALE	-



48" SANITARY SEWER MANHOLE

DETAIL	6
NO SCALE	-

**Mountain Road
and Main
Street Water
Main
Replacement**

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

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APPROVED:	DEP	

DETAIL SHEET

SCALE: NO SCALE

C-505

GENERAL NOTES:

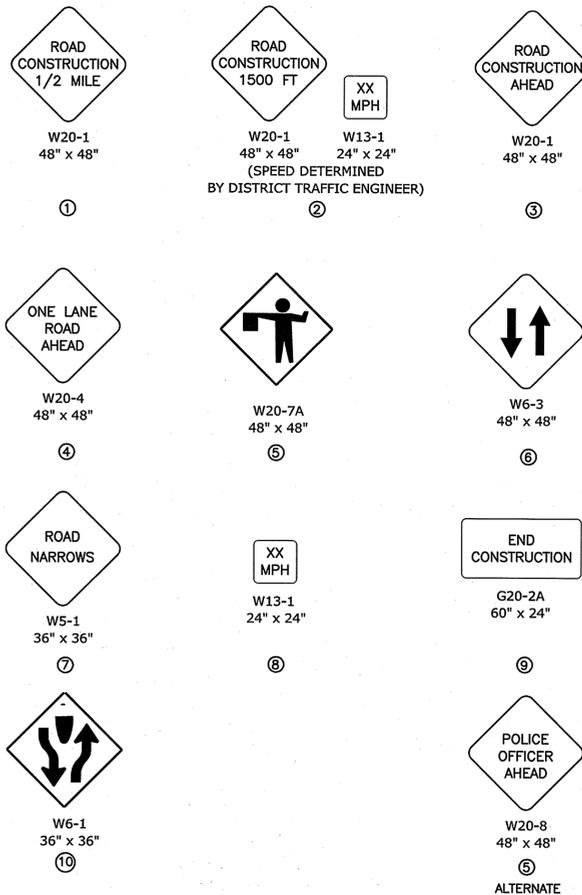
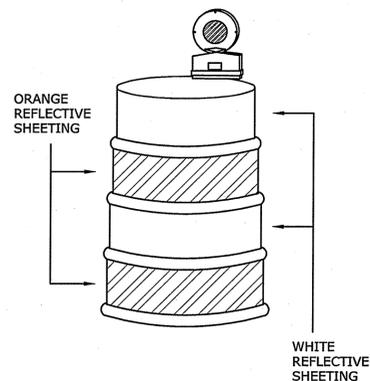
1. FLAGS SHALL BE AT LEAST 16"x16".
2. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN FIELD BY ENGINEER.
3. • = CHANNELIZING DEVICE
4. MAXIMUM SPACING OF CHANNELIZING DEVICES IS EQUAL IN FEET TO SPEED LIMIT.
5. NO TRAFFIC CONTROL DEVICES SHALL REMAIN ON THE ROADWAY AT THE END OF EACH WORK DAY.
6. SIGNS MUST BE COVERED OR REMOVED AT THE END OF EACH WORK DAY, OR WHENEVER BOTH LANES ARE OPEN TO TRAFFIC.
7. ALL WARNING SIGNS SHALL BE BLACK LEGEND ON A REFLECTIVE ORANGE BACKGROUND.
8. ADVISORY SPEED PLATES (W13-1) TO BE USED WHERE APPROPRIATE.
9. ALL TRAFFIC CONTROL DEVICES USED SHALL CONFORM TO THE LATEST EDITION OF THE "FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD) IN BOTH SPECIFICATION AND APPLICATION.
10. TYPICAL LAYOUTS:
 TYPICAL LAYOUT "A" SHALL BE USED WHEN THE TRAVEL WIDTH FROM THE CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT IS GREATER THAN 22 FEET.
 TYPICAL LAYOUT "B" SHALL BE USED WHEN THE TRAVEL WIDTH FROM THE CHANNELIZING 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.
11. FOR TYPICAL LAYOUT B & C THE CONTRACTOR SHALL MAINTAIN ONE OPEN TRAVEL LANE OF NOT LESS THAN 12 FEET AT ALL TIMES.
12. THE WORK ZONE AS SHOWN ON THESE PLANS IS REPRESENTATIVE ONLY AND MAY VARY IN BOTH LENGTH AND LOCATION AS CONSTRUCTION PROGRESSES. REGARDLESS OF THESE VARIATIONS, THE OFFSET DISTANCES TO THE TRAFFIC CONTROL DEVICES SHOWN SHALL BE MAINTAINED.
13. NO CONSTRUCTION EQUIPMENT OR MATERIALS (EXCEPT THOSE IN USE) SHALL BE STORED CLOSER THAN 8 FEET TO THE EDGE OF TRAVELLED LANES.
14. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT, OR ENDANGER THE GENERAL PUBLIC OR THE TRAFFIC FLOW.
15. THE NUMBER AND LOCATION OF ALL SIGNS AND DEVICES SHALL BE AS DEEMED NECESSARY BY THE ENGINEER 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. ALL PERSONNEL WHO ARE WORKING ON THE TRAVELLED WAY OR BREAKDOWN LANES SHALL WEAR SAFETY VESTS.
17. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. UNLESS COVERED WITH STEEL PLATES.
18. CONTRACTOR TO CONTACT FRANK LINNENBRINGER AT DISTRICT 4 OFFICE (603-352-2302) PRIOR TO BEGINNING CONSTRUCTION.
19. CONTRACTOR TO CONTACT DISTRICT 4 OFFICE (603-352-2302) WHEN TYPICAL LAYOUT "B" IS TO BE USED.

PLASTIC DRUMS

ITEM NO.	DESCRIPTION
859	REFLECTORIZED DRUM
859.1	REFLECTORIZED DRUM WITH FLASHER (TYPE A) - USED TO CONTINUALLY WARN DRIVERS THAT THEY ARE APPROACHING OR PROCEEDING IN A HAZARDOUS AREA (SEE MUTCD SECT. 6E4,6E5)

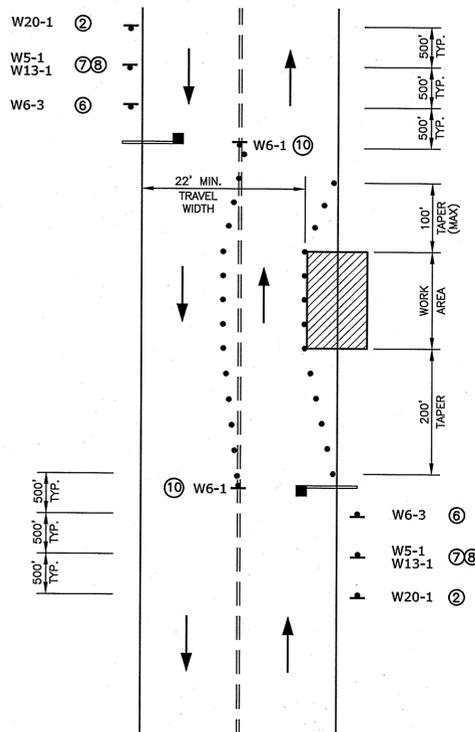
NOTES:

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 U.V. RESISTANT, LOW DENSITY, IMPACT RESISTANT, LINEAR POLYETHYLENE (OR APPROVED EQUIVALENT). METAL DRUMS ARE PROHIBITED FROM USE ON ALL STATE HIGHWAY PROJECTS.
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. WHEN A DRUM IS NO LONGER NEEDED IT SHALL BE STORED IN A DRUM STORAGE AREA, UNLESS IT IS REQUIRED FOR FUTURE USE WITHIN A FIVE DAY PERIOD, IN WHICH CASE IT MAY BE STORED ON LOCATION.

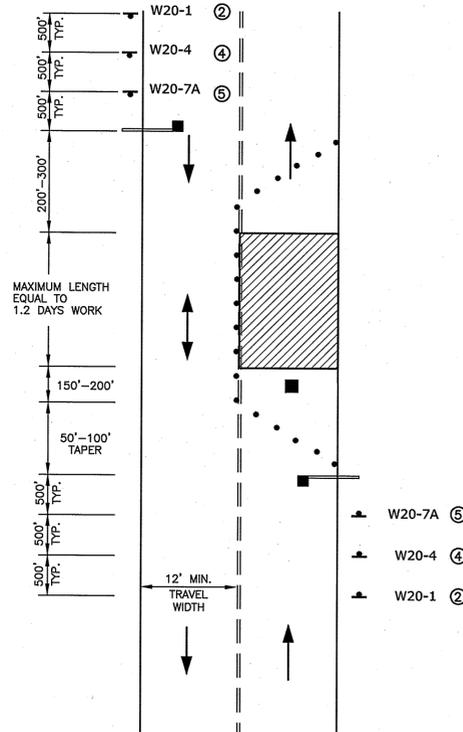


WORK AREA SIGNS

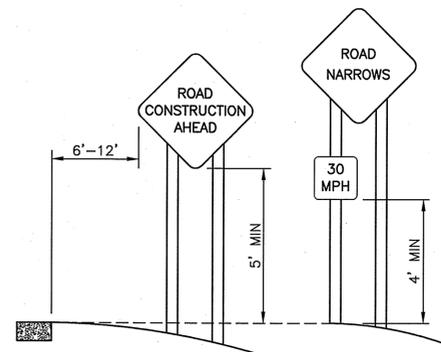
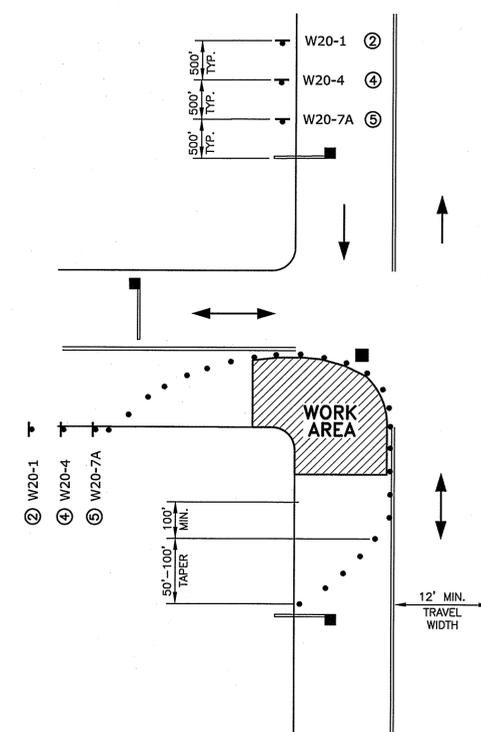
TYPICAL LAYOUT "A"
TWO OPERATING LANES



TYPICAL LAYOUT "B"
TWO LANE ROADWAY WITH ONE LANE CLOSED



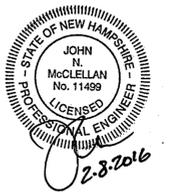
TYPICAL LAYOUT "C"
INTERSECTION LANE CLOSURE WHEN WORKING AT A CORNER WITHIN AN INTERSECTION



TYPICAL INSTALLATION OF PROJECT SIGNS

LEGEND

- • • • TRAFFIC CONES/DRUMS (CHANNELIZING DEVICE)
- FLAGGER
- BARRICADE
- SIGN
- ▨ WORK AREA
- ↔ TWO WAY TRAFFIC FLOW-SINGLE LANE WITH TRAFFIC CONTROL
- TWO WAY TRAFFIC FLOW-TWO LANES



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

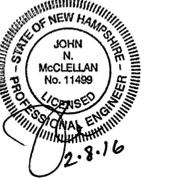
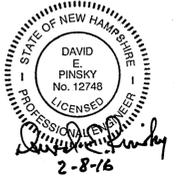
Jaffrey, New Hampshire
February 2016

VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

MARK	DATE	DESCRIPTION
0	02/2016	Issued for Construction
PROJECT NO: J0020-44		
DATE: 02/02/2016		
FILE: J0020-44-C-DETAILS.dwg		
DRAWN BY: REP, CFY		
CHECKED BY: JNM		
APPROVED: DEP		

TRAFFIC CONTROL NOTES AND DETAILS

SCALE: NO SCALE



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

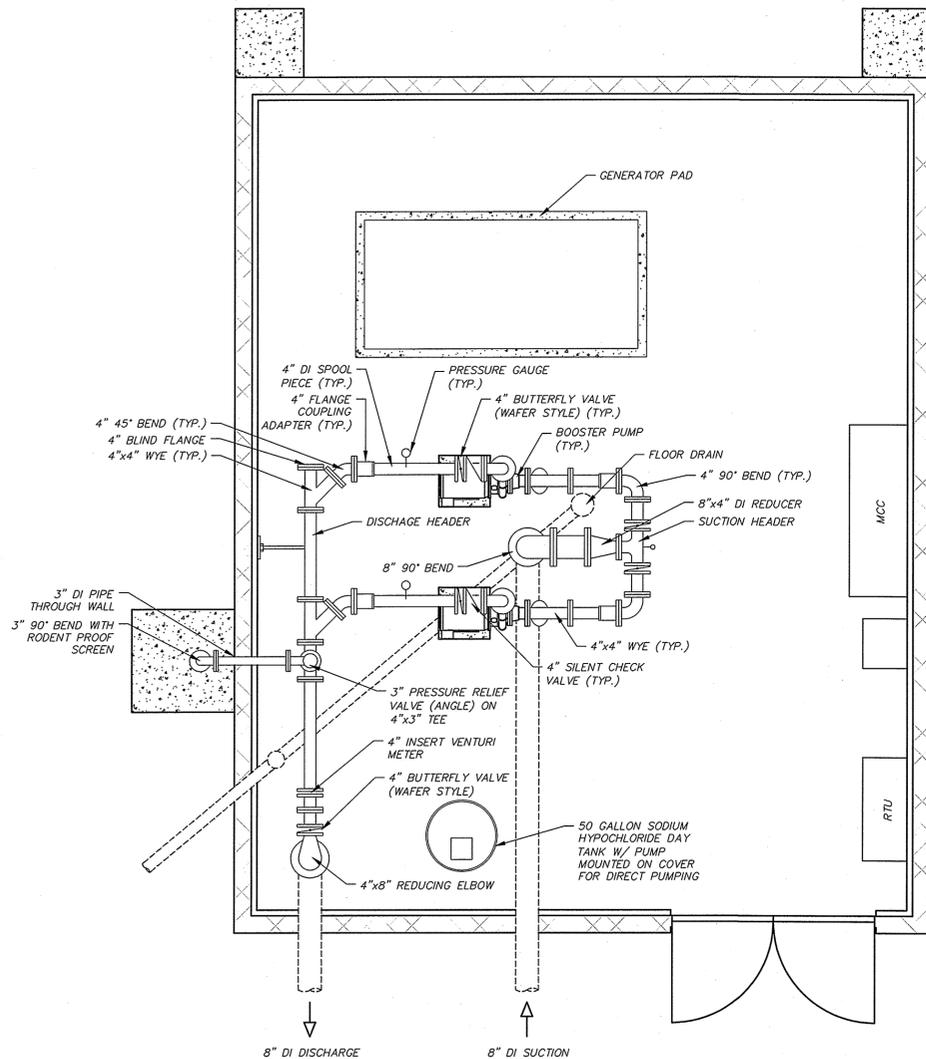
VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
0 1 INCH
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

0	02/2016	Issued for Construction
MARK	DATE	DESCRIPTION
		PROJECT NO: J0020-44
		DATE: 02/02/2016
		FILE: J0020-44-C-PROSPECT PS.dwg
		DRAWN BY: REP, CFY
		CHECKED: JNM
		APPROVED: DEP

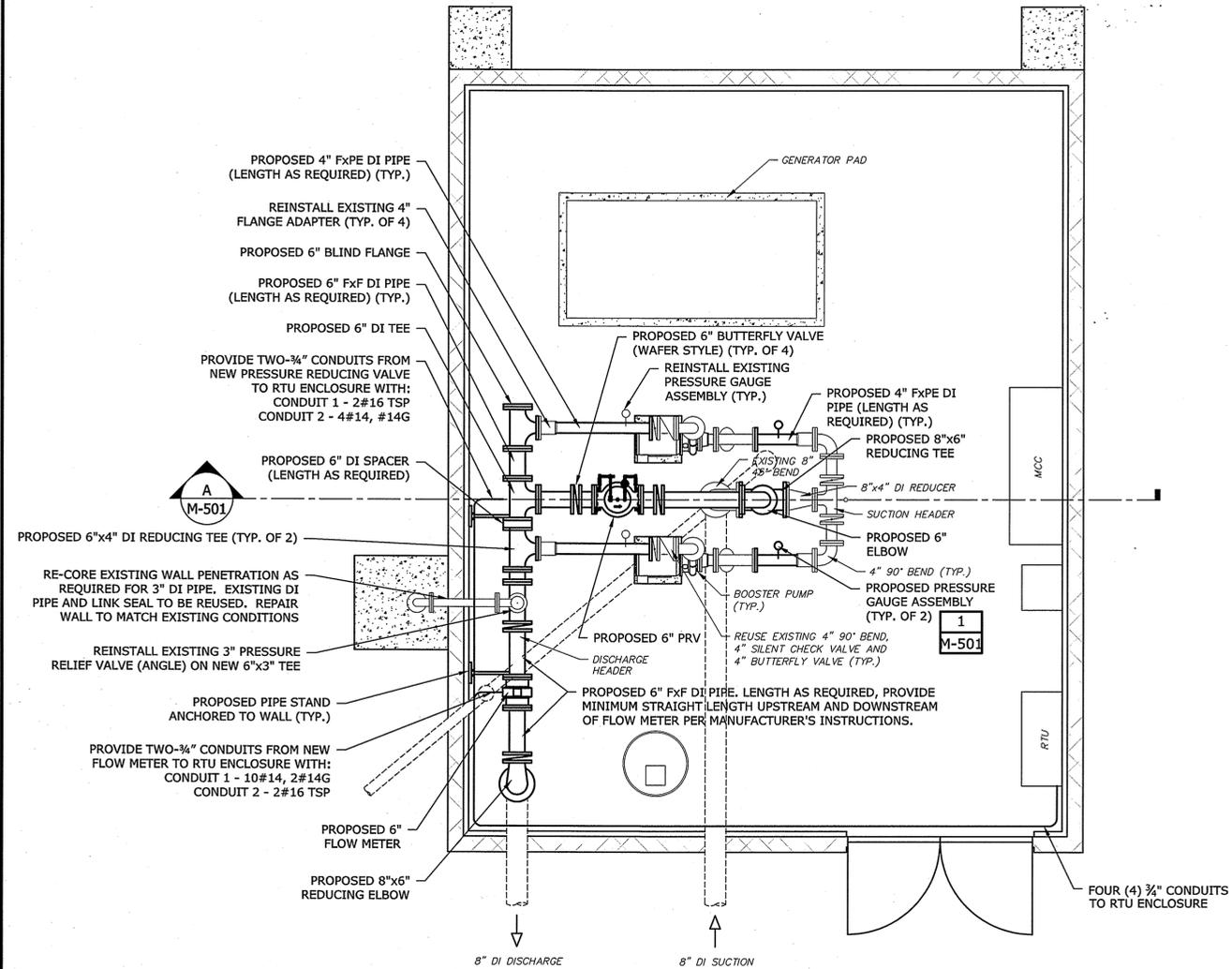
PROSPECT ST. PUMP STATION PRESSURE REDUCING VALVE PLAN

SCALE: AS SHOWN

M-101



PROSPECT STREET PUMP STATION EXISTING CONDITIONS
SCALE: 3/8" = 1'



PROSPECT STREET PUMP STATION PROPOSED CONDITIONS (BID ALTERNATE C)
SCALE: 3/8" = 1'



Mountain Road and Main Street Water Main Replacement

Town of Jaffrey

Jaffrey, New Hampshire
February 2016

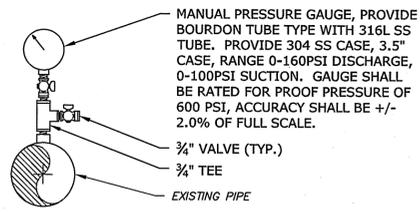
VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

0	02/2016	Issued for Construction
MARK	DATE	DESCRIPTION
PROJECT NO: J0020-44		
DATE: 02/02/2016		
FILE: J0020-44-C-PROSPECT PS.dwg		
DRAWN BY: REP, CFY		
CHECKED: JNM		
APPROVED: DEP		

PROSPECT ST. PUMP STATION PRESSURE REDUCING VALVE DETAILS

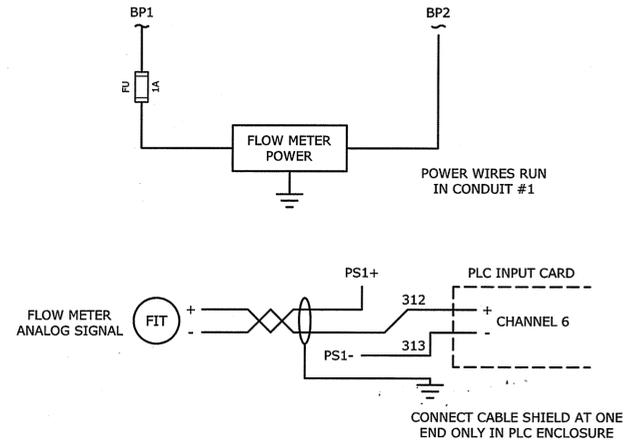
SCALE: AS SHOWN

M-501

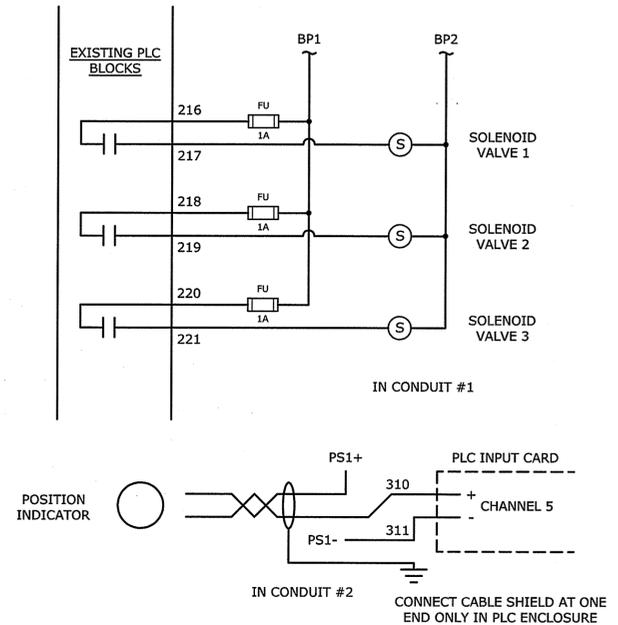


PRESSURE GAUGE ASSEMBLY

DETAIL	1
NO SCALE	M-101



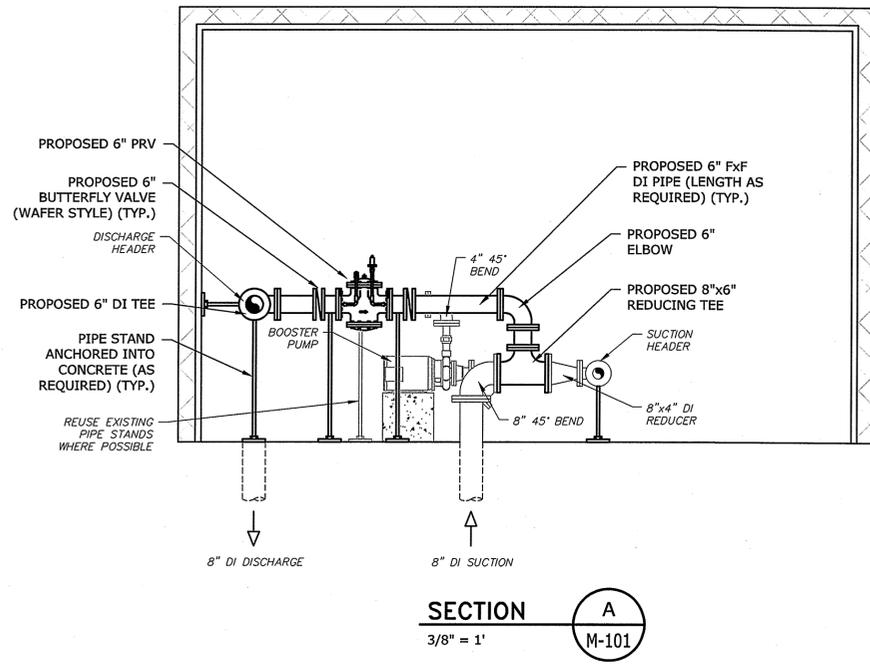
PRV WIRING DIAGRAM
SCALE: NO SCALE



FLOW METER WIRING DIAGRAM
SCALE: NO SCALE

NOTES:

- PROVIDE 2 (TWO) 3/4" CONDUITS FROM NEW PRESSURE REDUCING VALVE TO RTU ENCLOSURE.
 - PROVIDE FOUR 14 GAUGE WIRES AND ONE 14 GAUGE GROUND WIRE IN ONE CONDUIT.
 - PROVIDE TWO 16 GAUGE TSP CABLES IN ONE CONDUIT.
- PROVIDE 2 (TWO) 3/4" CONDUITS FROM NEW FLOW METER TO RTU ENCLOSURE.
 - PROVIDE TEN 14 GAUGE WIRES AND TWO 14 GAUGE GROUND WIRE IN ONE CONDUIT.
 - PROVIDE TWO 16 GAUGE TSP CABLES IN ONE CONDUIT.



SECTION A
3/8" = 1'