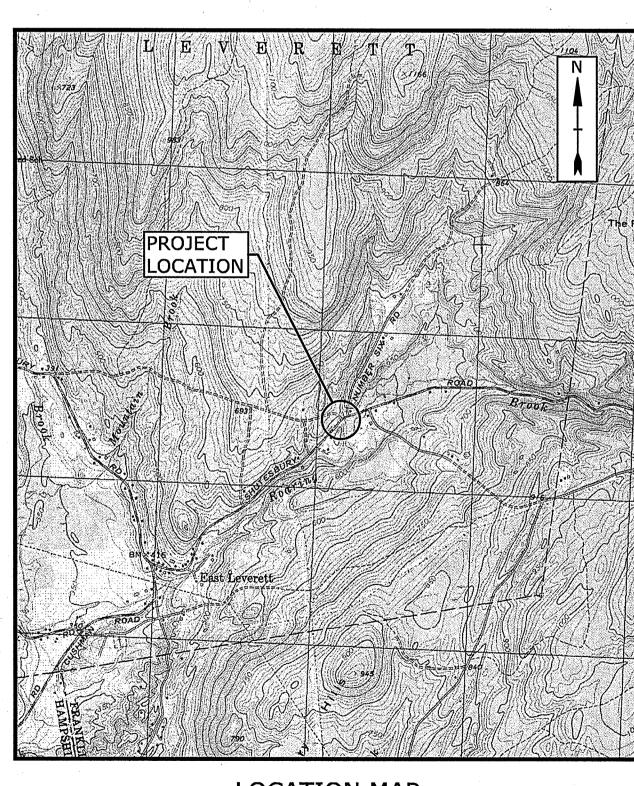
# TOWN OF LEVERETT, MASSACHUSETTS SHUTESBURY ROAD CULVERT REPLACEMENT PROJECT JUNE 2020

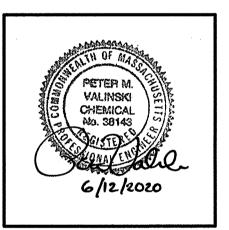
	LIST OF DRAWINGS
SHEET NO.	SHEET TITLE
G-001	COVER
G-002	LEGEND, ABBREVIATIONS AND GENERAL NOTES
C-101	EXISTING CONDITIONS PLAN
C-102	PROPOSED CONDITIONS PLAN
C-103	PROPOSED CONDITIONS PROFILE
C-104	WATER AND EROSION CONTROL DETAILS, ROADWAY AND CULVERT DETAILS
C-105	TEMPORARY TRAFFIC CONTROL



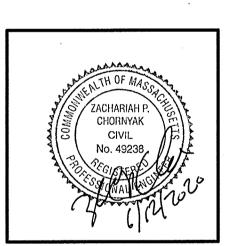
LOCATION MAP

PREPARED BY:

Tighe&Bond



PETER M. VALINSKI, PE



ZACHARIAH P. CHORNYAK, F

PREPARED FOR:
TOWN OF LEVERETT

MARJORIE McGINNIS, TOWN ADMINISTRATOR

### **GENERAL NOTES**

- 1. BASE PLAN PREPARED BY NORTHEAST SURVEY CONSULTANTS, INC. ON JANUARY 6, 2020. EXISTING PROPERTY LINES ARE BASED ON AN ASSESSORS PLAN, AND ARE APPROXIMATE AND FOR ORIENTATION PURPOSES ONLY.
- 2. THE HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83). THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BOTH WERE DERIVED FROM RTK GPS OBSERVATIONS TAKEN ON SITE.
- 3. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- 4. SOIL BORINGS WERE ADVANCED BY SEABOARD DRILLING, INC. ON 12/23/2019.
- 4. WETLAND RESOURCE AREAS WERE DELINEATED BY TIGHE & BOND ON 4/01/2020.
- 5. NOTIFY "DIGSAFE" AT 1-888-344-7233 TO ARRANGE FOR MARKING OUT EXISTING UNDERGROUND UTILITIES AT LEAST 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS) PRIOR TO BEGINNING EXCAVATION AT ANY GIVEN LOCATION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE ALLOWED TO START ANY KIND OF EXCAVATION WORK PRIOR TO OBTAINING ALL THE NECESSARY INFORMATION REGARDING THE LOCATION OF UNDERGROUND UTILITIES AT THE SITE. ACCOMPLISH ALL EXCAVATION SO THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED DURING EXCAVATION OPERATIONS. REPAIR ANY EXISTING PIPE OR UTILITY DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 6. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE LOCATION OF EXISTING UTILITIES. THE ENGINEER AND OWNER MAKE NO GUARANTEE AS TO THE UNDERGROUND CONDITIONS THAT MAY BE ENCOUNTERED.
- 7. FIELD MEASURE TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS.
- 8. TEST PITS TO LOCATE EXISTING UTILITIES ARE STRONGLY ENCOURAGED AND MAY BE ORDERED BY THE ENGINEER.
- 9. IF CHANGES TO THE DESIGN ARE PROPOSED, THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION (MAY REQUIRE PERMIT MODIFICATIONS OR NEW FORMAT(S).
- 10. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
- 11. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE FROM THE SITE TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- 12. IMMEDIATELY REPORT SPILLS OF OIL AND/OR HAZARDOUS MATERIALS (OHM) TO THE MASSDEP.
- 13. PROVIDE A SUFFICIENT SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS, SUCH AS BOOMS OR BLANKETS, AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS.
- 14. FURNISH AND INSTALL TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR TRAFFIC THROUGH THE WORK AREA OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA.
- 15. MAKE NECESSARY ARRANGEMENTS TO PERFORM ANY WORK NEAR THE OVERHEAD UTILITIES PRIOR TO THE START OF CONSTRUCTION.

# SURFACE RESTORATION NOTES

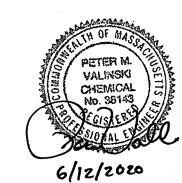
- 1. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE LIMITS OF WORK TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 2. ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. PROTECT SURFACE FEATURES (E.G., WALLS, FENCES, MAIL BOXES, SIGNS, SIDEWALKS, CURBING, STAIRS, WALKWAYS, TREES, ETC.) FROM DAMAGE DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY SUPPORTS, WHEN
- 4. IF REMOVAL OF SURFACE FEATURES IS REQUIRED IN ORDER TO PERFORM THE PROPOSED WORK, REMOVE THOSE SITE FEATURES ONLY UPON APPROVAL OF ENGINEER. REPLACE ALL REMOVED SITE FEATURES; NEW ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND CONDITION TO THE ITEMS REMOVED.
- 5. EXISTING SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN MASSACHUSETTS AT NO ADDITIONAL COST TO THE OWNER.
- 6. REPAIR DISTURBED PAVED SURFACES AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.

### LEGEND

EXISTING	NEW			
LXISTING	INCVV			APPROXIMATE
		EDGE OF PAVEMENT	BIT	BITUMINOUS
		GRAVEL DRIVE	BVW	BORDERING VEGETATIVE WETL
<del></del>		FENCE	CFS	CONCRETE
SD		STORM DRAIN	CONC CMP	CONCRETE METAL DIRE
	•	APPROXIMATE PROPERTY LINE	D	CORRUGATED METAL PIPE DIAMETER
<u> </u>			DPW	DEPARTMENT OF PUBLIC WORK
OE		OVERHEAD UTILITY LINES		ELEVATION
	•	TREELINE	EXIST	EXISTING
<del></del>		THALWEG	FIN	FINISHED
0 0		GUARDRAIL	1	FEET/FOOT
	-		ıı	INCH
	490	INDEX CONTOUR	HDPE	HIGH DENSITY POLYETHYLENE
<u> </u>	***************************************	INTERMEDIATE CONTOUR	Н	HEIGHT
				HOT MIX ASPHALT
▲		CONTROL POINT		INVERT ELEVATION
<b>₽</b> B−1		BORING	*	IRON PIN
				LENGTH
345.4	351.3	PROFILE ELEVATIONS	LF	LINEAR FEET
<b>B</b>		CATCH BASIN		MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
€ F	•	UTILITY POLE	MAX	MAXIMUM
	·		MIN	MINIMUM
<b>.</b>		GUY WIRE	MISC	MISCELLANEOUS
<u>.</u>		SIGN	N/F	NOW/FORMERLY
•	·		0.C.	ON CENTER
•		PIPE OUTLET	OE	OVERHEAD ELECTRIC
		TEMPORARY COFFEE DAM	PROP	PROPOSED
	-0000000000	TEMPORARY COFFER DAM	RD	ROAD
.000000000		STONE HEADWALL	SF	SQUARE FEET
			STA	SURVEY STATION
	• • • • • • • • • • • • • • • • • • • •	EROSION CONTROL BARRIERS	T	ТОР
		SURVEYED EDGE OF WATER (JANUARY 2020)	ТВМ	TEMPORARY BENCH MARK
-	·	MEAN ANNUAL HIGH WATER (MAHW)	TYP	TYPICAL
		TOP OF BANK/ORDINARY HIGH WATER (OHW)	UP	UTILITY POLE
1C-2	,	TOP OF BANK ORDINARY FILET WATER (OHW)	W	WIDTH
10-1		VEGETATED WETLANDS LIMIT		
		100-FOOT BUFFER ZONE		
•	4	TEMPORARY BENCH MARK		
		RIPRAP		
	1201052010520		•	
5 3 5 5 7 8 5 7		TREE		
7.1 2	•	TREE		

**ABBREVIATIONS** 

# Tighe&Bond





# Town of Leverett

Shutesbury Road Culvert Replacement Project

Leverett, Massachusetts

MARK	DATE	DESCRIPTION	
PROJEC	JECT NO: L0792/002		
DATE:	: 06/01/2020		
FILE:	l	.0792-002-G-002.dwg	
DRAWI	DRAWN BY:		
CHECKED:		DJP	

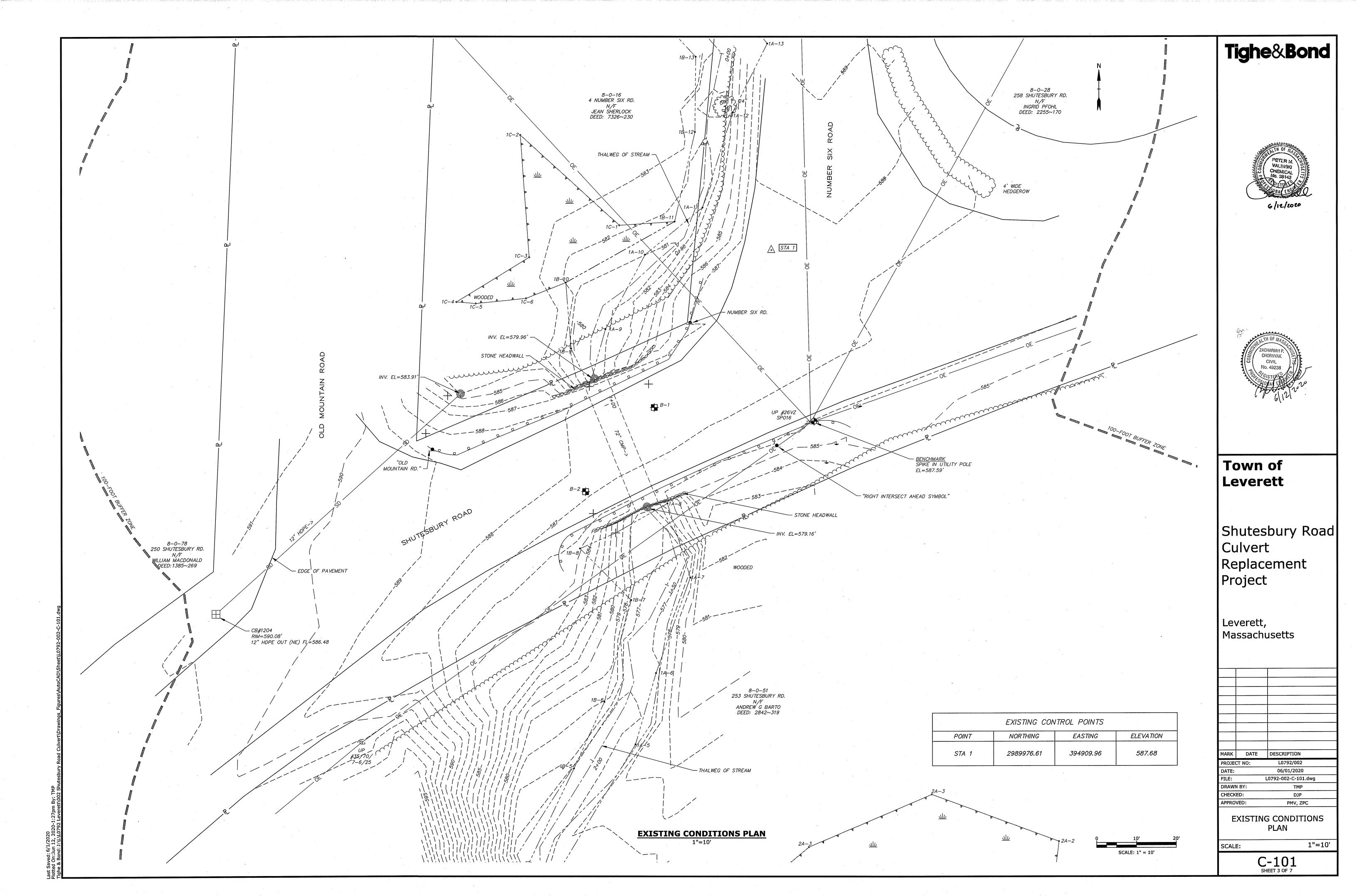
LEGEND, ABBREVIATIONS
AND GENERAL NOTES

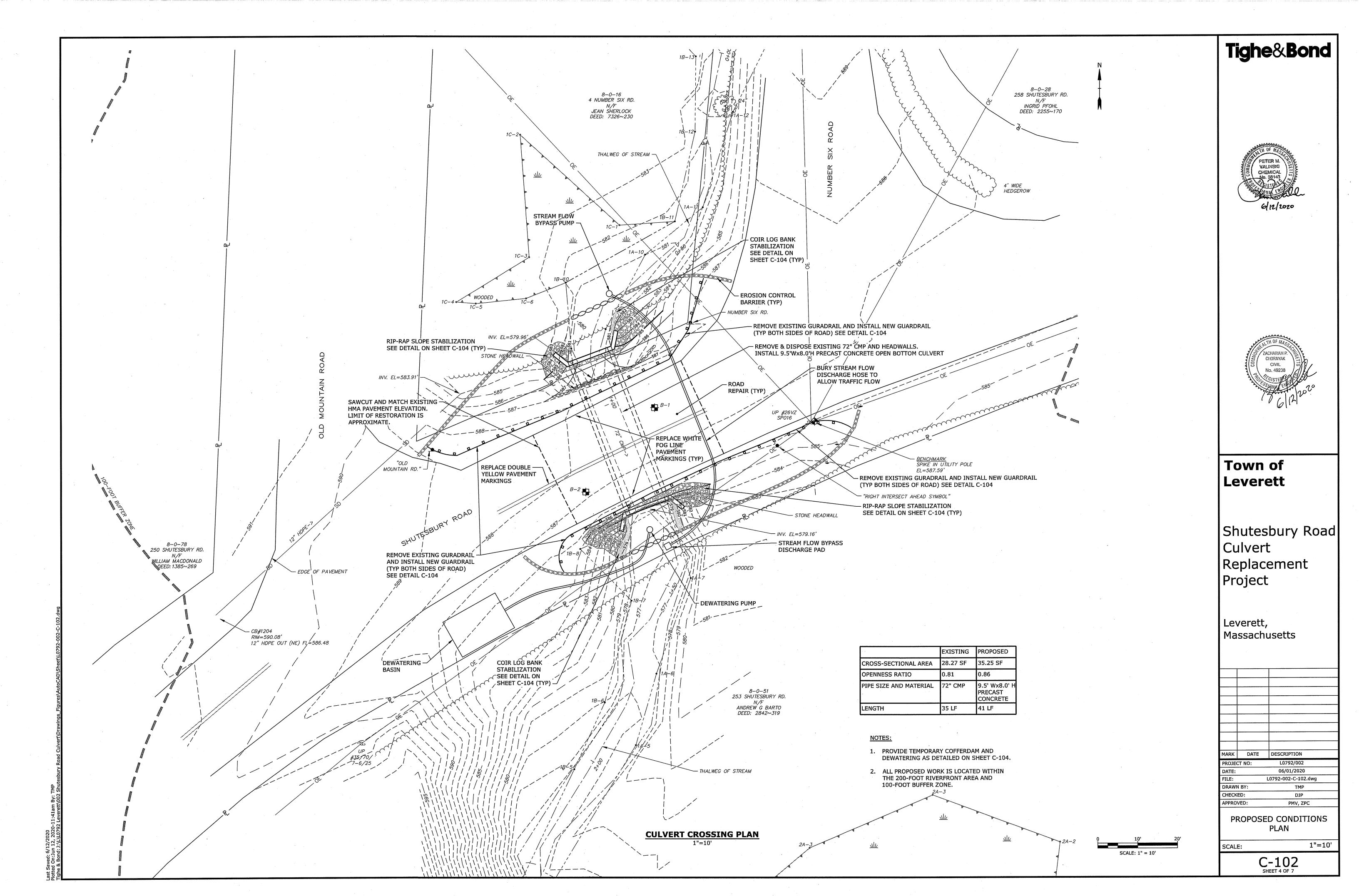
PMV, ZPC

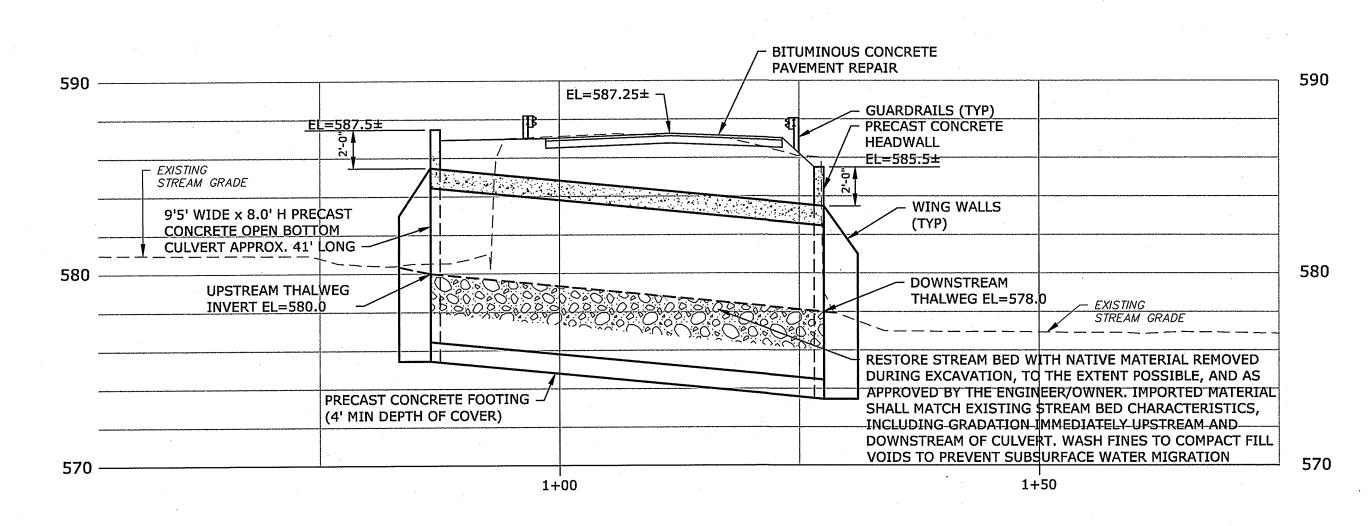
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APPROVED:

G-002 SHEET 2 OF 7

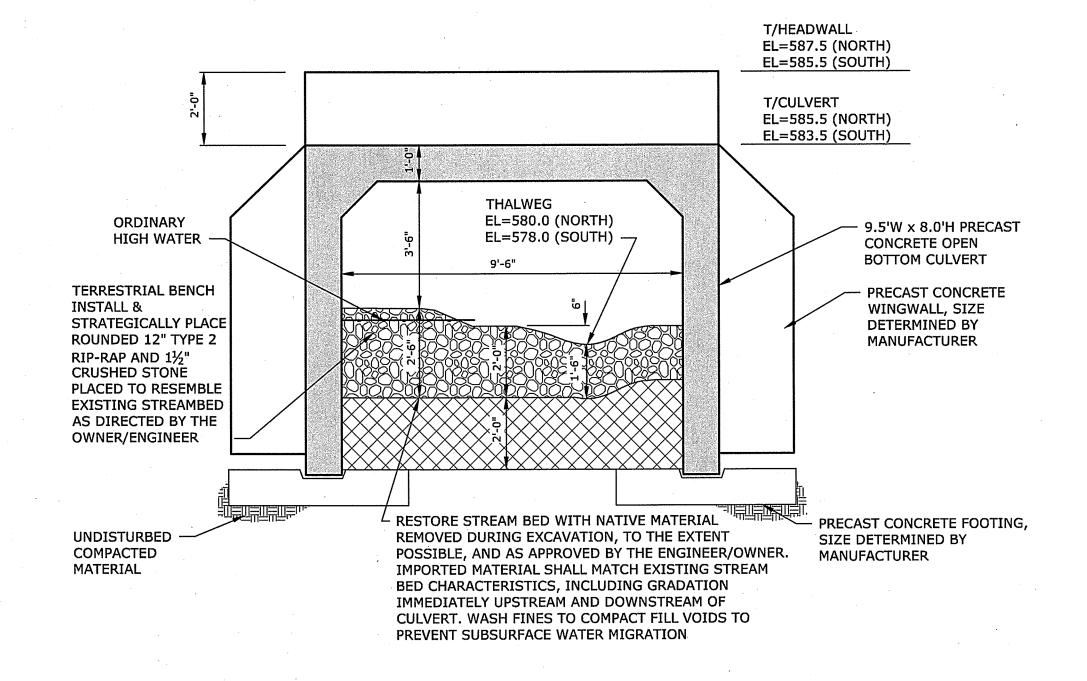






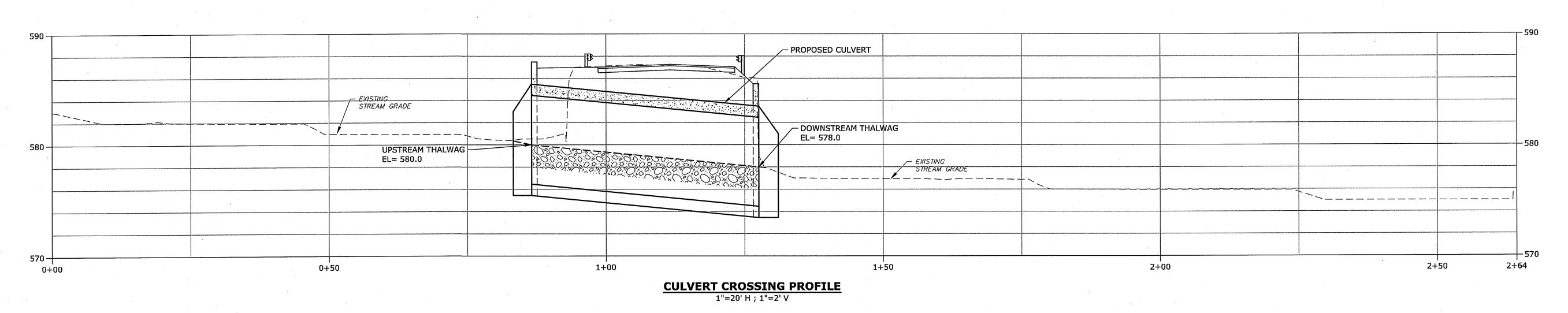
CULVERT CROSSING PROFILE

1"=10' H; 1"=2' V



ELEVATION VIEW OF CULVERT

3/8"=1'-0"



Tighe&Bond

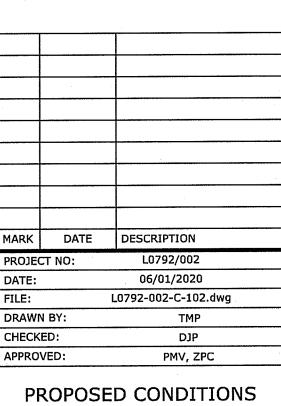




# Town of Leverett

Shutesbury Road Culvert Replacement Project

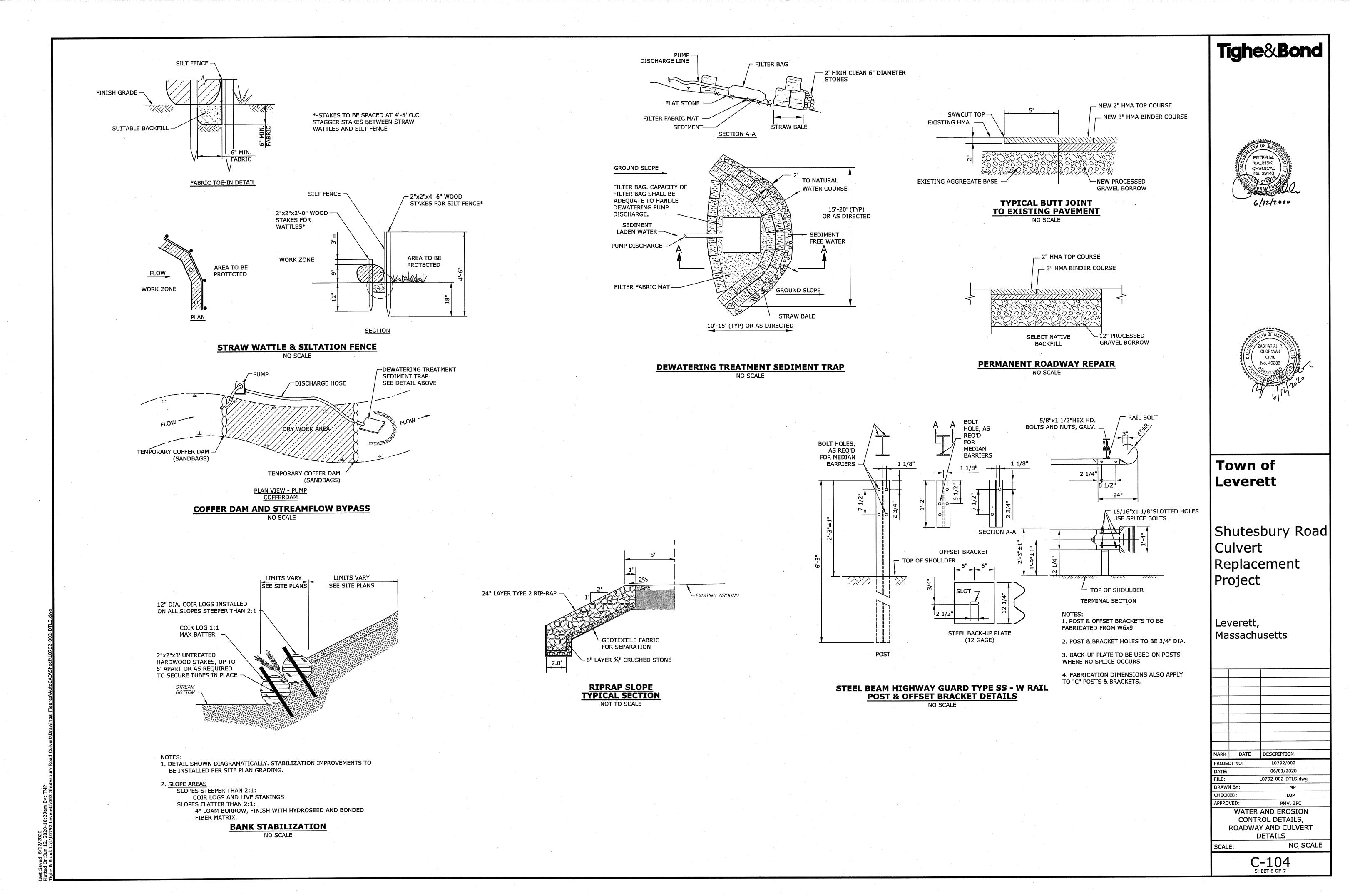
Leverett, Massachusetts

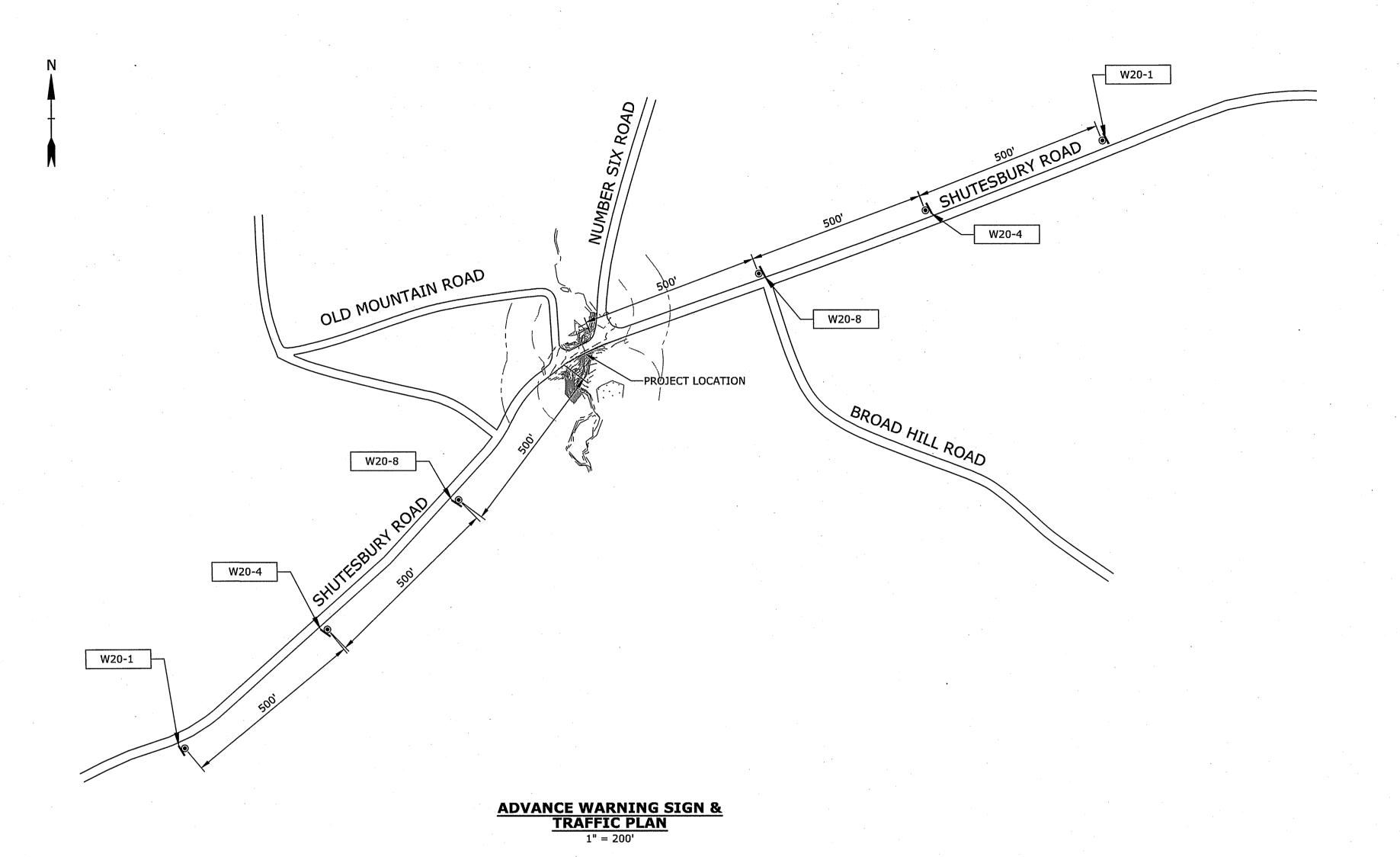


PROFILE

SCALE: AS SHOWN

C-103





IDENTIFICATION	SIZE OF SIGN (IN)		TEXT	NUMBER OF SIGNS	AREA IN SQ. FT.
NUMBER	WIDTH	HEIGHT		REQUIRED	
W20-1	48	48	ROAD CONSTRUCTION 1500 FT	2	32
W20-4	48	48	ONE LANE ROAD AHEAD	2	32
W20-8	48	48	POLICE OFFICER AHEAD	2	32
			TOTAL	= 6	96

# TEMPORARY TRAFFIC CONTROL NOTES:

- 1. TEMPORARY FENCING AND BARRIERS SHALL BE DEPLOYED ON SITE DURING THE ROADWAY CLOSURE TO PREVENT ACCESS TO THE CROSSING.
- 2. ALTERNATIVE ONE WAY TRAFFIC SHALL BE MAINTAINED DURING THE WORK.
- 3. ALL SIGNAGE SHALL BE PLACED PRIOR TO THE START OF CONSTRUCTION AND REMOVED IMMEDIATELY FOLLOWING COMPLETION OF THE WORK.
- 4. PLACEMENT OF SIGNS SHALL BE COORDINATED WITH THE ENGINEER AND THE LOCAL POLICE DEPARTMENT (LEVERETT, MASSACHUSETTS).

Tighe&Bond

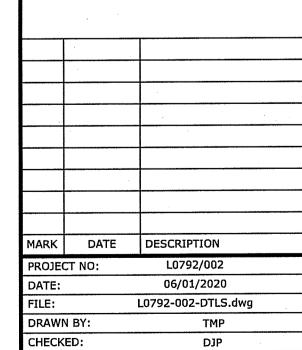




# Town of Leverett

Shutesbury Road Culvert Replacement Project

Leverett, Massachusetts



TEMPORARY TRAFFIC CONTROL

PMV, ZPC

APPROVED:

SCALE: AS SHOWN

C-105