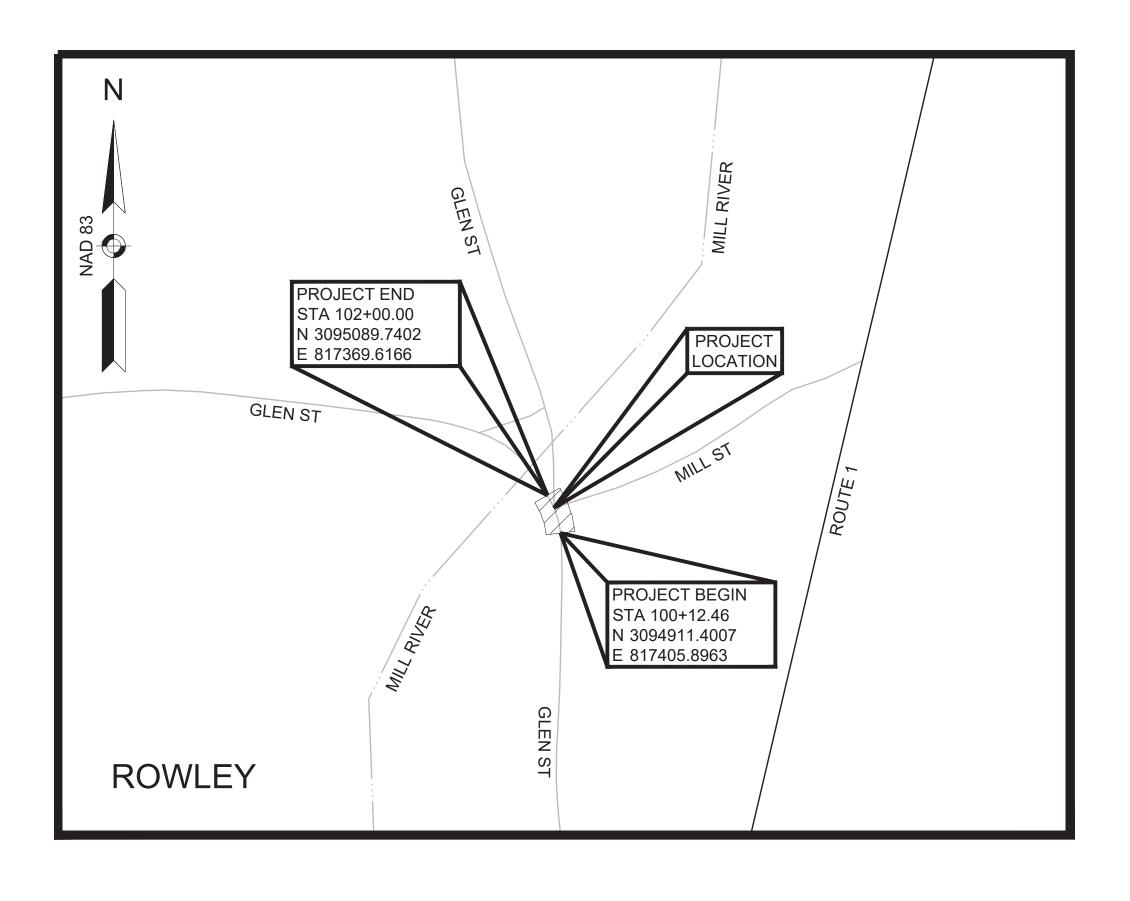
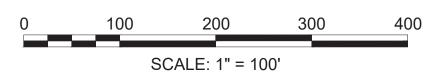
INDEX

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9	CONTROL OF WATER
10	EXISTING CONDITIONS PLAN

PLAN AND PROFILE OF GLEN STREET IN THE TOWN OF ROWLEY ESSEX COUNTY NOTICE OF INTENT





LENGTH OF PROJECT = 142.91 FEET = 0.027 MILES

ROWLEY GLEN STREET TITLE SHEET & INDEX SHEET 1 OF 10

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

DATE	DESCRIPTION	N	REV #
	Joshua D. Tr	earchis, PE 3:48:27-04'00'	
	101 Walnut St. Watertown, M 617.924.1770	n gen Brustli , PO Box 9151 A 02472 FAX 617.924.228	36
DESIGNED BY	APPROVED BY	SHEET OF	10
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CHECKED BY JDT	DATE JANUARY, 2024	JOB NO. 15884	.04
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GENERAL ABBREVIATIONS

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R&SREMOVE AND STACKRDROADRDWYROADWAYREBREBUILDREMREMOVEREMODREMODELRETRETAINRET WALLRETAINING WALLROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER	R&D	REMOVE AND DISCARD
RDROADRDWYROADWAYREBREBUILDREMREMOVEREMODREMODELRETRETAINRET WALLRETAINING WALLROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER		
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REBREBUILDREMREMOVEREMODREMODELRETRETAINRET WALLRETAINING WALLROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER		
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RETRETAINRET WALLRETAINING WALLROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER		
RET WALLRETAINING WALLROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER	REMOD	REMODEL
ROWRIGHT OF WAYRRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER		
RRRAILROADRTRIGHTSBSTONE BOUNDSHLDSHOULDER		
RTRIGHTSBSTONE BOUNDSHLDSHOULDER	-	
SBSTONE BOUNDSHLDSHOULDER		
SHLD SHOULDER		
SHLO/S.H.L.O. STATE HIGHWAY LAYOUT LINE		
	SHLO/S.H.L.O.	STATE HIGHWAY LAYOUT LINE

(CONT		GENERAL S	SYMBOLS	
ST	STREET			
STA	STATION	EXISTING	PROPOSED	DESCRIPTION
STD		□ JB	JB	JERSEY BARRIER
	STANDARD	⊞ ⊕ ∰ СВ	СВ СВ	CATCH BASIN
W	SIDEWALK			CATCH BASIN CURB INLET
EMP	TEMPORARY	Ø FP	Ø FP	FLAG POLE
С	TOP OF CURB			
OS	TOP OF SLOPE	G GP	G GP	GAS PUMP
RANS	TRANSITION	□ MB		MAIL BOX
RM	TURF REINFORCING MAT			POST SQUARE
YP	TYPICAL	\bigcirc	0	POST CIRCULAR
AR	VARIES	WELL	\oplus Well	WELL
'ERT	VERTICAL	□ EHH	□ EHH	ELECTRIC HANDHOLE
		\bigcirc	0	FENCE GATE POST
/CR		O GG	O GG	GAS GATE
/P	WORKING POINT	• BHL #	BHL #	BORING HOLE
-SECT	CROSS SECTION			
JTILIT	Y ABBREVIATIONS		↔ MW #	MONITORING WELL
B	CATCH BASIN	■ TP #	■ TP #	TEST PIT
		P	Ф	HYDRANT
BCI	CATCH BASIN WITH CURB INLET	*	*	LIGHT POLE
IP	CAST IRON PIPE	□ CO.BD.		COUNTY BOUND
IT	CHANGE IN TYPE	\bigcirc \triangle		GPS POINT
MP	CORRUGATED METAL PIPE	©	©	CABLE MANHOLE
SP	CORRUGATED STEEL PIPE	D	0	DRAINAGE MANHOLE
1	DROP INLET	E	_	ELECTRIC MANHOLE
IP	DUCTILE IRON PIPE		E	
ES	FLARED END SECTION	G	0	GAS MANHOLE
&C	FRAME AND COVER	M	M	MISC MANHOLE
		S	\$	SEWER MANHOLE
&G	FRAME AND GRATE	T	1	TELEPHONE MANHOLE
G	GAS GATE	W	W	WATER MANHOLE
3I	GUTTER INLET	MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND
SIP	GALVANIZED IRON PIPE	□ MON		MONUMENT
IDPE	HIGH DENSITY POLYETHYLENE PIPE	□ SB		STONE BOUND
DW	HEADWALL			
YD	HYDRANT	■ TB		TOWN OR CITY BOUND
١V	INVERT	\bigtriangleup		TRAVERSE OR TRIANGULATION STATION
B	LEACH BASIN	-⊙ TPL or GUY	- → TPL or GUY	TROLLEY POLE OR GUY POLE
		• HTP		TRANSMISSION POLE
P	LIGHT POLE	_&_ UFB	_&_ UFB	UTILITY POLE W/ FIREBOX
1H	MANHOLE	-{- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT
1W	MONITORING WELL	_5_ ULT	_&_ ULT	UTILITY POLE W / 1 LIGHT
ЭНW	OVERHEAD WIRE		-	
VC	POLYVINYLCHLORIDE PIPE	UPL	-~ UPL	UTILITY POLE
WW W	PAVED WATER WAY	0		BUSH
RCP	REINFORCED CONCRETE PIPE	•SIZE & TYPE		TREE
SMH	SEWER MANHOLE	0		STUMP
SV&B	TAPPING SLEEVE VALVE & BOX			SWAMP / MARSH
JP	UTILITY POLE	• WG	• WG	WATER GATE
		• PM	• PM	PARKING METER
VG	WATER GATE			- OVERHEAD CABLE/WIRE
VIP	WROUGHT IRON PIPE			= CURBING
M	WATER METER/WATER MAIN	<u> </u>		– CONTOURS (ON-THE-GROUND SURVEY DATA)
		-100 -99 $-$		– CONTOURS (PHOTOGRAMMETRIC DATA)
	MENT & GRADING	—100——— 000———		
ALIGINI	MENT & GRADING			- UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
ABBRE	EVIATIONS			- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER
C	CENTER OF CURVE			– UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
P	HIGH POINT			– UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
Γ.	INTERSECTION OF TANGENT			– UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OV
т. Р	LOW POINT			– UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		00000000000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BALANCED STONE WALL
C	POINT OF CURVATURE	<u> </u>		- GUARD RAIL - STEEL POSTS
CC	POINT OF COMPOUND CURVATURE			– GUARD RAIL - WOOD POSTS
I	POINT OF INTERSECTION	V	Y	
NT	POINT	^	^	- CHAIN LINK OR METAL FENCE
OC	POINT ON CURVE		0	
ОТ	POINT ON TANGENT		· c::::::::::::::::::::::::::::::::::::	· SEDIMENT CONTROL BARRIER
RC	POINT OF REVERSE CURVATURE			
Т	POINT OF TANGENCY			– SAWCUT LINE
PT	ANGLE POINT			- TOP OR BOTTOM OF SLOPE
				- EDGE OF PAVEMENT
				- LIMIT OF MICROMILLING AND OVERLAY
	TANGENT DISTANCE OF CURVE			
AN	TANGENT		•	BANK OF RIVER OR STREAM
5.45 `				BORDER OF WETLAND
	SPOT ELEVATION			100 FT WETLAND BUFFER
		· ·		200 FT RIVERFRONT BUFFER
				– STATE HIGHWAY LAYOUT
ULIF	ABBREVIATIONS			– TOWN OR CITY LAYOUT
	ALGEBRAIC DIFFERENCE IN RATES OF GRADE			
	HORIZONTAL SIGHT DISTANCE			
	RATE OF VERTICAL CURVATURE			
				TOWN OR CITY BOUNDARY LINE
		₽		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
	POINT OF VERTICAL CURVATURE			
	POINT OF VERTICAL COMPOUND CURVATURE			∽ CONTROL OF WATER
C	POINT OF VERTICAL INTERSECTION		~~~~~~	~ CONTROL OF WATER
c c			~~~~~	~ CONTROL OF WATER

(CONT)	GENERAL S	SYMBOLS	
ST	STREET	EXISTING	PROPOSED	DESCRIPTION
STA	STATION	□ JB	JB	JERSEY BARRIER
STD	STANDARD	Ш ⊕ ⊕ св	СВ	CATCH BASIN
SW	SIDEWALK			
TEMP	TEMPORARY			CATCH BASIN CURB INLET
TC	TOP OF CURB			FLAG POLE
TOS	TOP OF SLOPE	G GP	G GP	GAS PUMP
TRANS	TRANSITION	□ MB		MAIL BOX
TRM	TURF REINFORCING MAT			POST SQUARE
TYP	TYPICAL	\bigcirc	0	POST CIRCULAR
VAR	VARIES	WELL	WELL	WELL
VERT	VERTICAL	□ EHH	□ EHH	ELECTRIC HANDHOLE
WCR	WHEEL CHAIR RAMP	\bigcirc	0	FENCE GATE POST
WP	WORKING POINT	o GG	O GG	GAS GATE
X-SECT	CROSS SECTION	🕒 BHL #	BHL #	BORING HOLE
	Y ABBREVIATIONS	↔ MW #	- ↔ MW #	MONITORING WELL
		E TP #	TP #	TEST PIT
CB	CATCH BASIN	Ŷ	Ŷ	HYDRANT
CBCI	CATCH BASIN WITH CURB INLET	*	*	LIGHT POLE
CIP	CAST IRON PIPE	□ CO.BD.		COUNTY BOUND
CIT	CHANGE IN TYPE	\bigcirc \triangle		GPS POINT
CMP	CORRUGATED METAL PIPE	C	©	CABLE MANHOLE
CSP	CORRUGATED STEEL PIPE	D	D	DRAINAGE MANHOLE
DI	DROP INLET	E	Ē	ELECTRIC MANHOLE
DIP	DUCTILE IRON PIPE	G	©	GAS MANHOLE
FES	FLARED END SECTION	M	Ŵ	MISC MANHOLE
F&C	FRAME AND COVER	S	S	SEWER MANHOLE
F&G	FRAME AND GRATE	T	T	TELEPHONE MANHOLE
GG	GAS GATE	Ŵ	Ŵ	WATER MANHOLE
GI	GUTTER INLET	■ MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND
GIP	GALVANIZED IRON PIPE	□ MON		MONUMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	□ SB		STONE BOUND
HDW	HEADWALL	■ TB		TOWN OR CITY BOUND
HYD	HYDRANT	\triangle		TRAVERSE OR TRIANGULATION STATION
INV	INVERT	-∘ TPL or GUY	- TPL or GUY	TROLLEY POLE OR GUY POLE
LB	LEACH BASIN	• HTP		TRANSMISSION POLE
LP	LIGHT POLE	-&- UFB	_&_ UFB	UTILITY POLE W/ FIREBOX
MH	MANHOLE	-{- UPDL	-{- UPDL	UTILITY POLE WITH DOUBLE LIGHT
MW	MONITORING WELL	-&- ULT	-& ULT	UTILITY POLE W / 1 LIGHT
OHW	OVERHEAD WIRE	-0- UPL		UTILITY POLE
PVC	POLYVINYLCHLORIDE PIPE	->- UFL	UFL	BUSH
PWW	PAVED WATER WAY	•SIZE & TYPE		TREE
RCP	REINFORCED CONCRETE PIPE	0		STUMP
SMH	SEWER MANHOLE	<u></u>		SWAMP / MARSH
TSV&B	TAPPING SLEEVE VALVE & BOX	• WG	• WG	WATER GATE
UP	UTILITY POLE	• PM	• PM	PARKING METER
WG	WATER GATE			- OVERHEAD CABLE/WIRE
WIP	WROUGHT IRON PIPE			= CURBING
WM	WATER METER/WATER MAIN			– CONTOURS (ON-THE-GROUND SURVEY DATA)
		-100 -99 -100		- CONTOURS (PHOTOGRAMMETRIC DATA)
	MENT & GRADING			– UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
				- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
ABBKE	EVIATIONS			– UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
CC	CENTER OF CURVE			– UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
HP	HIGH POINT			- UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
I.T.	INTERSECTION OF TANGENT			
LP	LOW POINT			- UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
PC	POINT OF CURVATURE	000000000000		BALANCED STONE WALL
PCC	POINT OF COMPOUND CURVATURE			- GUARD RAIL - STEEL POSTS
PI	POINT OF INTERSECTION	<u> </u>	<u>u u u u u</u>	- GUARD RAIL - WOOD POSTS
PNT	POINT	X	x x	- CHAIN LINK OR METAL FENCE
POC	POINT ON CURVE	0	· · · · · · · · · · · · · · · · · · ·	
POT	POINT ON TANGENT		· c::::::::::::::::::::::::::::::::::::	SEDIMENT CONTROL BARRIER
PRC	POINT OF REVERSE CURVATURE			
PT	POINT OF TANGENCY			– SAWCUT LINE
∠PT	ANGLE POINT			- TOP OR BOTTOM OF SLOPE
R	RADIUS OF CURVATURE			- EDGE OF PAVEMENT
Т	TANGENT DISTANCE OF CURVE			– LIMIT OF MICROMILLING AND OVERLAY
TAN	TANGENT			BANK OF RIVER OR STREAM
25.45 🔵				BORDER OF WETLAND
	SPOT ELEVATION			100 FT WETLAND BUFFER
				200 FT RIVERFRONT BUFFER
PROFII F	ABBREVIATIONS			- STATE HIGHWAY LAYOUT
	ALGEBRAIC DIFFERENCE IN RATES OF GRADE			- TOWN OR CITY LAYOUT
ISD	HORIZONTAL SIGHT DISTANCE			- COUNTY LAYOUT
,	RATE OF VERTICAL CURVATURE			-RAILROAD SIDELINE
	LENGTH OF CURVE			TOWN OR CITY BOUNDARY LINE
VC	POINT OF VERTICAL CURVATURE	R		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
VCC	POINT OF VERTICAL CORVATORE	<u> </u>		- EASEMENT
VU VI	POINT OF VERTICAL COMPOUND CORVATORE		~~~~~~	~ CONTROL OF WATER
VRC	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE			
VRC VT	POINT OF VERTICAL REVERSE CORVATORE POINT OF VERTICAL TANGENCY			

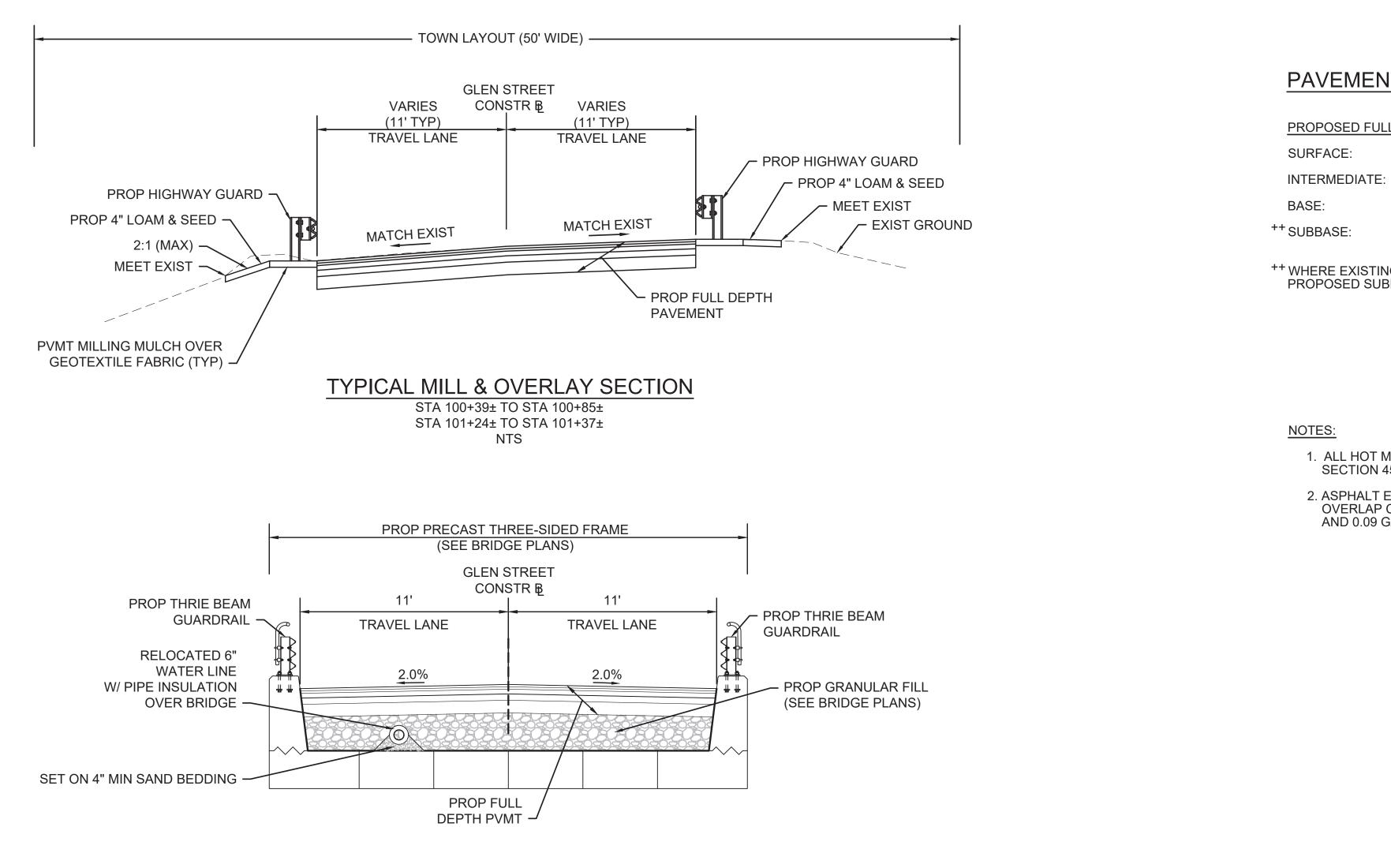
D

(CONT)		GENERAL S		
ST	STREET			
		EXISTING	PROPOSED	DESCRIPTION
STA	STATION	JB	JB	JERSEY BARRIER
STD	STANDARD	Ш 🕀 🌐 СВ	СВ СВ	CATCH BASIN
SW	SIDEWALK			CATCH BASIN CURB INLET
TEMP	TEMPORARY			
тс	TOP OF CURB	⊗ FP		FLAG POLE
TOS	TOP OF SLOPE	G GP	G GP	GAS PUMP
		□ MB	□ MB	MAIL BOX
TRANS	TRANSITION			POST SQUARE
TRM	TURF REINFORCING MAT			
TYP	TYPICAL	0	0	POST CIRCULAR
VAR	VARIES	WELL	\oplus Well	WELL
VERT	VERTICAL	□ EHH	□ EHH	ELECTRIC HANDHOLE
		0	0	FENCE GATE POST
WCR	WHEEL CHAIR RAMP	O GG	O GG	GAS GATE
WP	WORKING POINT			
X-SECT	CROSS SECTION	● BHL #	BHL #	BORING HOLE
	ABBREVIATIONS	↔ MW #	↔ MW #	MONITORING WELL
		■ TP #	🖬 TP #	TEST PIT
СВ	CATCH BASIN	Ŷ	$\mathbf{\Phi}$	HYDRANT
CBCI	CATCH BASIN WITH CURB INLET	*	*	LIGHT POLE
CIP	CAST IRON PIPE			COUNTY BOUND
	CHANGE IN TYPE	□ CO.BD.		
		\bigcirc \triangle		GPS POINT
CMP	CORRUGATED METAL PIPE	C	©	CABLE MANHOLE
CSP	CORRUGATED STEEL PIPE	D	0	DRAINAGE MANHOLE
DI	DROP INLET			
DIP	DUCTILE IRON PIPE	E	Ē	ELECTRIC MANHOLE
		G	©	GAS MANHOLE
ES	FLARED END SECTION	M	M	MISC MANHOLE
&C	FRAME AND COVER	S	S	SEWER MANHOLE
&G	FRAME AND GRATE	Ū.	Ū	TELEPHONE MANHOLE
GG	GAS GATE			
		W	W	WATER MANHOLE
))		MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
ЭР	GALVANIZED IRON PIPE	- MON		MONUMENT
IDPE	HIGH DENSITY POLYETHYLENE PIPE	□ SB		STONE BOUND
IDW	HEADWALL			
IYD	HYDRANT	■ TB		TOWN OR CITY BOUND
		\bigtriangleup		TRAVERSE OR TRIANGULATION STATION
NV	INVERT	⊸ TPL or GUY	→ TPL or GUY	TROLLEY POLE OR GUY POLE
В	LEACH BASIN			
P	LIGHT POLE	• HTP		TRANSMISSION POLE
л. ИН	MANHOLE	-6- UFB	_&_ UFB	UTILITY POLE W/ FIREBOX
		-{- UPDL	-∲- UPDL	UTILITY POLE WITH DOUBLE LIGHT
ΛW	MONITORING WELL	-5- ULT	_ _&_ ULT	UTILITY POLE W / 1 LIGHT
OHW	OVERHEAD WIRE		-	
PVC	POLYVINYLCHLORIDE PIPE	UPL	-∽ UPL	UTILITY POLE
PWW	PAVED WATER WAY	\diamond		BUSH
		•SIZE & TYPE		TREE
RCP	REINFORCED CONCRETE PIPE	0		STUMP
SMH	SEWER MANHOLE			
TSV&B	TAPPING SLEEVE VALVE & BOX			SWAMP / MARSH
JP	UTILITY POLE	• WG	• WG	WATER GATE
NG	WATER GATE	• PM	• PM	PARKING METER
				- OVERHEAD CABLE/WIRE
NIP	WROUGHT IRON PIPE			= CURBING
NM	WATER METER/WATER MAIN	<u> </u>		– CONTOURS (ON-THE-GROUND SURVEY DATA)
		-100		
		-100 - 99		 CONTOURS (PHOTOGRAMMETRIC DATA)
ALIGNN	MENT & GRADING		·	– UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
				- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVI
ABBRE	VIATIONS			– UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
CC	CENTER OF CURVE			
ΗP	HIGH POINT			 UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
	INTERSECTION OF TANGENT			– UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND C
				– UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
.P	LOW POINT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
PC	POINT OF CURVATURE	00000000000		BALANCED STONE WALL
OOO	POINT OF COMPOUND CURVATURE		<u> </u>	- GUARD RAIL - STEEL POSTS
20	POINT OF INTERSECTION		<u> </u>	– GUARD RAIL - WOOD POSTS
		×	x	- CHAIN LINK OR METAL FENCE
NT	POINT	P	- <u></u> 2	
000	POINT ON CURVE	0	U	
ТОТ	POINT ON TANGENT		· c:::::x::::x:::::x:::::	· SEDIMENT CONTROL BARRIER
RC	POINT OF REVERSE CURVATURE			→ TREE LINE
ΥC Υ	POINT OF TANGENCY			– SAWCUT LINE
				- TOP OR BOTTOM OF SLOPE
.PT	ANGLE POINT			
R	RADIUS OF CURVATURE			
-	TANGENT DISTANCE OF CURVE			- LIMIT OF MICROMILLING AND OVERLAY
AN	TANGENT			BANK OF RIVER OR STREAM
5.45				BORDER OF WETLAND
U. 10 ·	SPOT ELEVATION		-	100 FT WETLAND BUFFER
		· ·		200 FT RIVERFRONT BUFFER
	ABBREVIATIONS			– STATE HIGHWAY LAYOUT
				- TOWN OR CITY LAYOUT
	ALGEBRAIC DIFFERENCE IN RATES OF GRADE			- COUNTY LAYOUT
	HORIZONTAL SIGHT DISTANCE			
	RATE OF VERTICAL CURVATURE			-RAILROAD SIDELINE
				TOWN OR CITY BOUNDARY LINE
	LENGTH OF CURVE	₽	-	PROPERTY LINE OR APPROXIMATE PROPERTY LINE
	POINT OF VERTICAL CURVATURE	ι <u>,</u>		
	POINT OF VERTICAL COMPOUND CURVATURE			
				~ CONTROL OF WATER
C				
С	POINT OF VERTICAL INTERSECTION			
С	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL REVERSE CURVATURE			
c c				
C C	POINT OF VERTICAL REVERSE CURVATURE			

ROWLEY **GLEN STREET LEGEND & ABBREVIATIONS** SHEET 2 OF 10

GENERAL NOTES:

- 1. EXISTING CONDITIONS AND TOPOGRAPHICAL INFORMATION FROM AN ACTUAL FIELD SURVEY CONDUCTED BY VHB IN NOVEMBER OF 2022.
- 2. THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, IF REQUIRED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES FOR ALL WORK WITHIN THE VICINITY OF EXISTING OVERHEAD WIRES AND UTILITY POLES.
- 6. EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS, IF REQUIRED.
- 7. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- 8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
- 9. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- 10. JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT SEALER AND BACKSANDED.
- 11. EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 12. EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- 13. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
- 14. DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.



TYPICAL THREE-SIDED FRAME SECTION STA 100+90± TO STA 101+19± NTS

ROWLEY **GLEN STREET TYPICAL SECTIONS** SHEET 3 OF 10

PROPOSED FULL DEPTH PAVEMENT

1.5" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER

1.5" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER

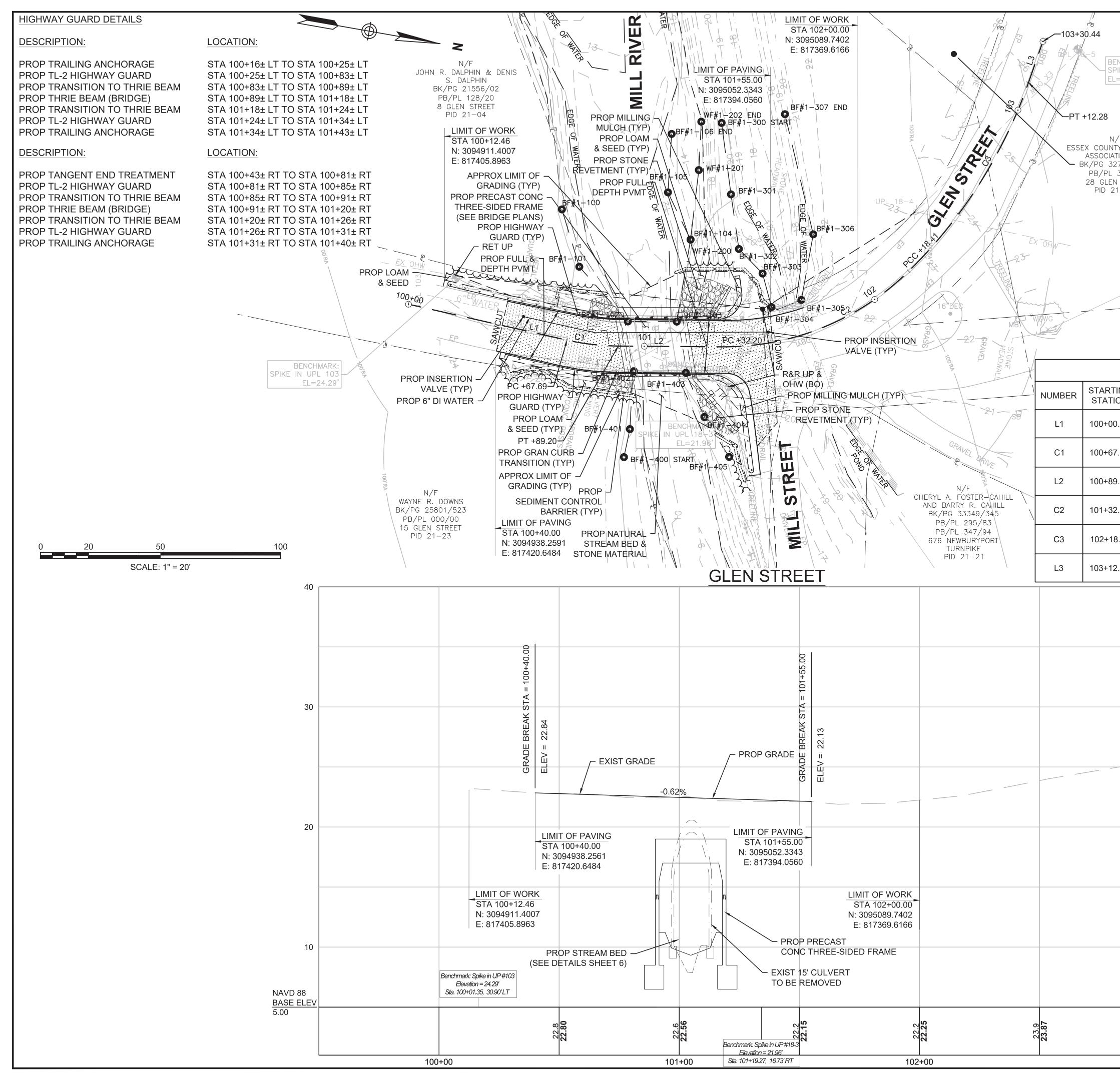
3" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER

4" DENSE GRADED CRUSHED STONE FOR SUB-BASE OVER 8" GRAVEL BORROW, TYPE b

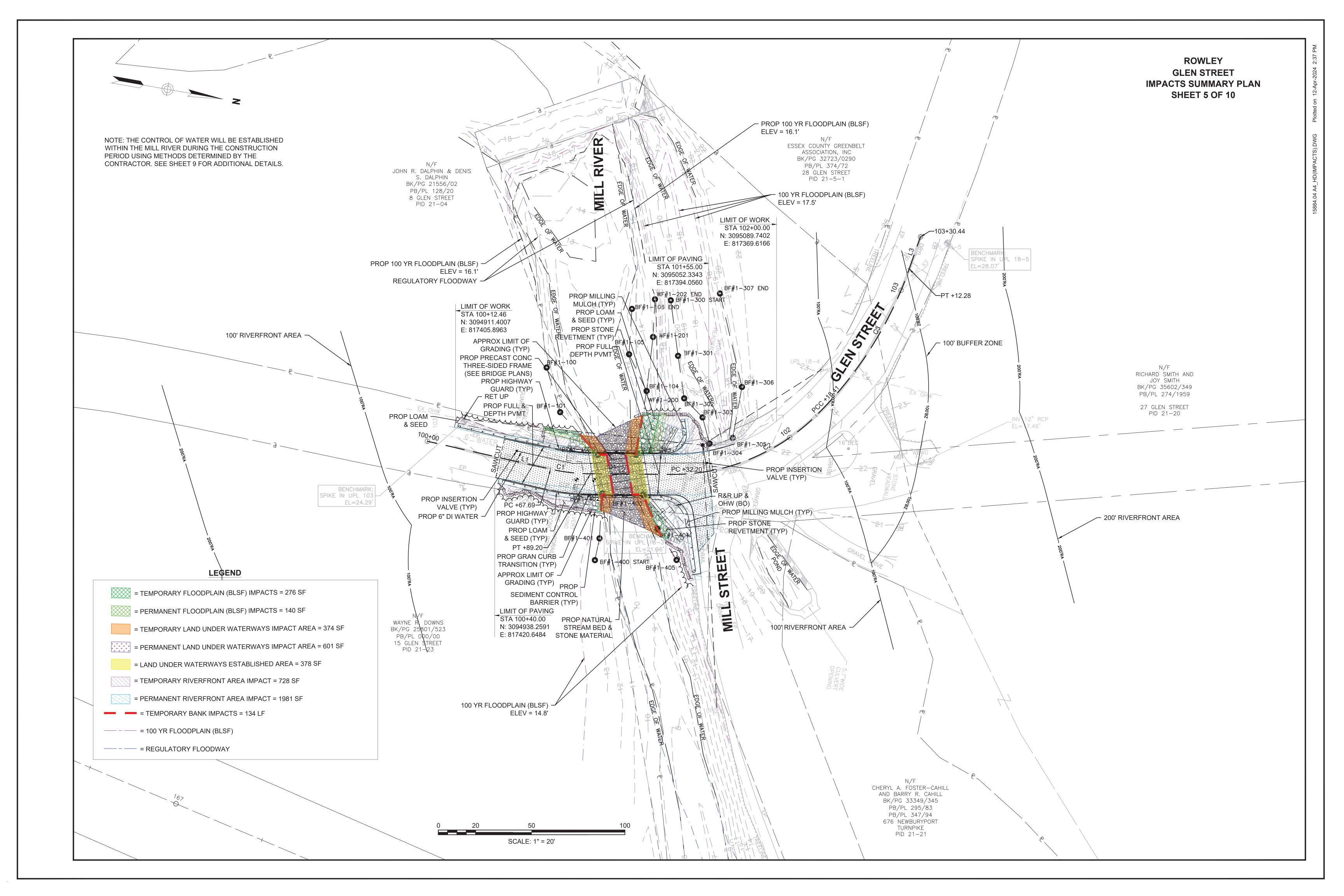
** WHERE EXISTING GRAVEL IS FOUND TO BE SUITABLE, THE EXISTING GRAVEL MAY BE USED IN PROPOSED SUBBASE, AFTER APPROVAL BY THE ENGINEER

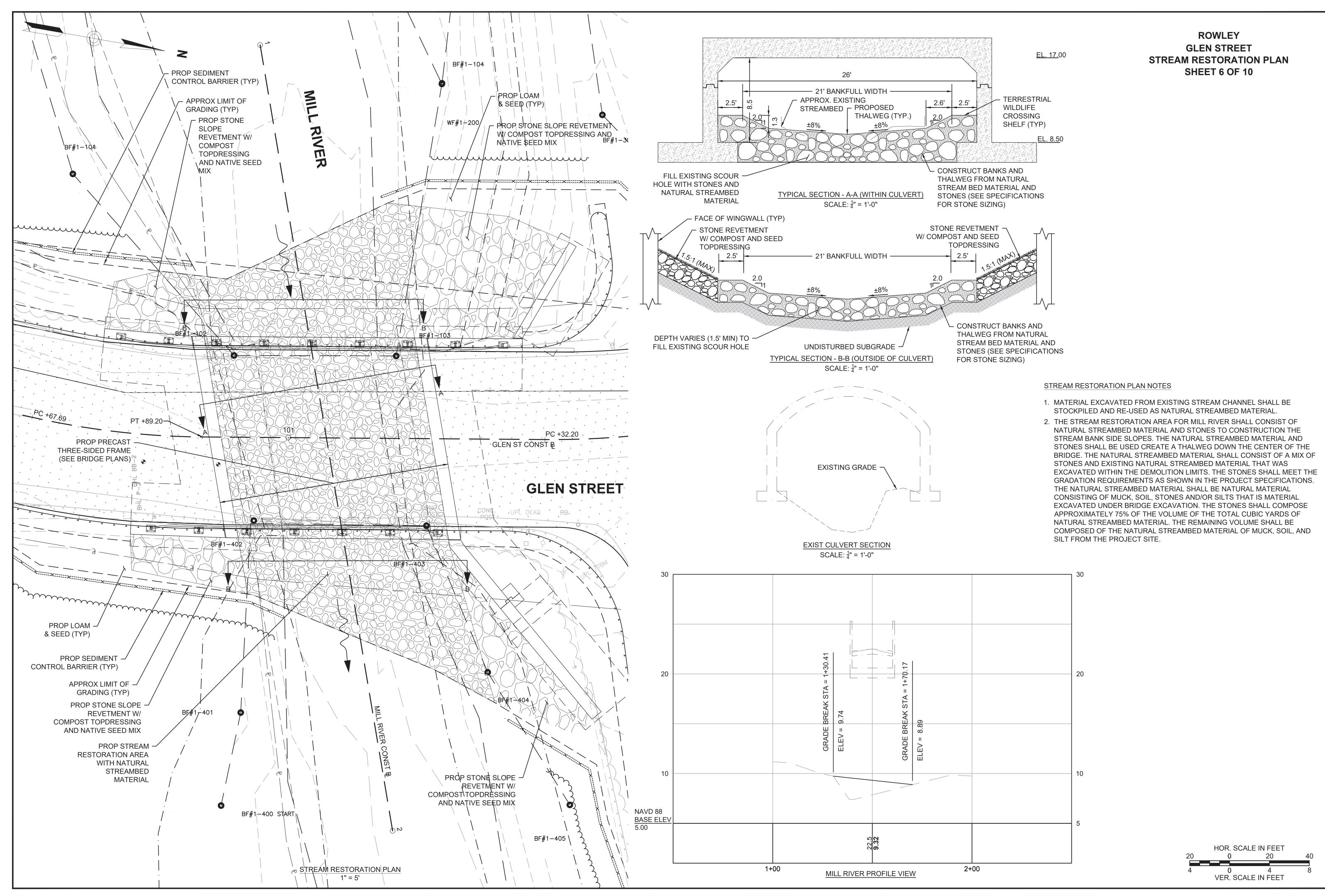
1. ALL HOT MIX ASPHALT PAVEMENTS SHALL BE CONSTRUCTUED IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE FOR HMA.

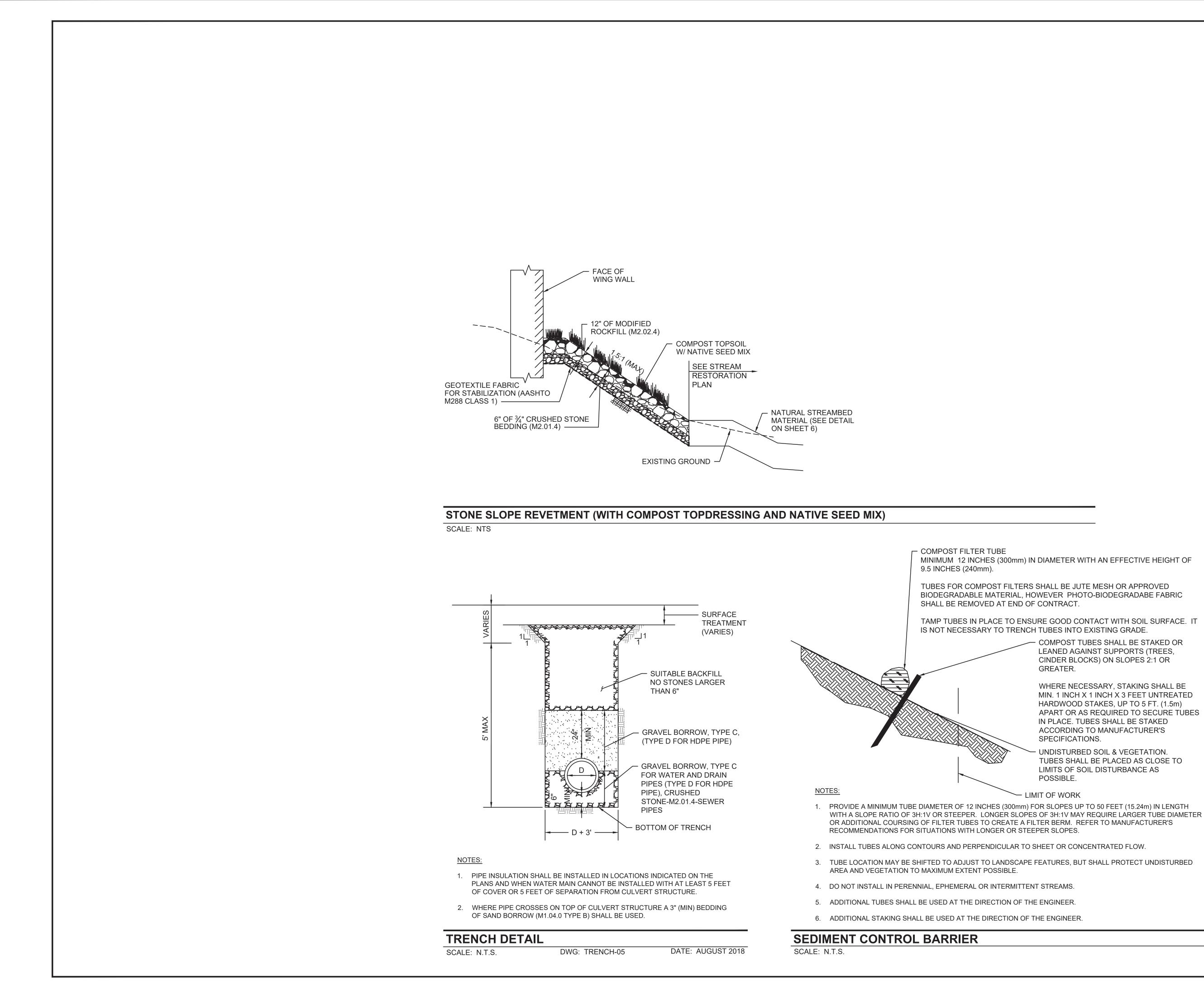
2. ASPHALT EMULSION FOR TACK COAT (ITEM 452.) SHALL BE SPRAY APPLIED FOR DOUBLE OVERLAP COVERAGE AT 0.08 GALLONS PER SQUARE YARD OVER SMOOTH SURFACES AND 0.09 GALLONS PER SQUARE YARD OVER MILLED SURFACES.



ENCHM PIKE II L=28.0	V UPL 18-5				ROWL GLEN ST STRUCTI SHEET 4	REET ON PLANS		
N/F NTY GR ATION, 32723/ 374/ N STRI 21-5-	0290 72 EET	RCP			N/F RICHARD SMITI JOY SMIT BK/PG 35602 PB/PL 274/ 27 GLEN ST PID 21–2	H 2/349 1959 REET		
	OLD GLEN	ROAD T I STRE	O NEWBURY ET)	PORT				5
		1	ET CONSTRUCTION	BASELINE DAT	A			
TING TION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING	
00.00	3094898.954	817405.296		N2°45'43"E 67.69'	100+67.69	3094966.564	817408.557	
67.69	3094966.564	817408.557	R= 100.00' Δ= 12°19'32 L=21.51' T=10.80'	2"	100+89.20	3094987.997	817407.284	
39.20	3094987.997	817407.284		N9°33'49"W 43.00'	101+32.20	3095030.401	817400.139	
32.20	3095030.401	817400.139	R= 110.00' Δ= 44°54'1 L=86.21' T=45.45'	1"	102+18.41	3095101.641	817355.598	1
18.41	3095101.641	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3"	103+12.28	3095137.123	817269.577	
2.28	3095137.123	817269.577		N80°42'08"W 18.16'	103+30.44	3095140.058	817251.654	
	mark: Spike in UP #18-5 Elevation = 28.05' 103+00.00, 15.24' RT		10 5	4	HOR. SCAL	E IN FEET 4	8	







ROWLEY **GLEN STREET CONSTRUCTION DETAILS** SHEET 7 OF 10

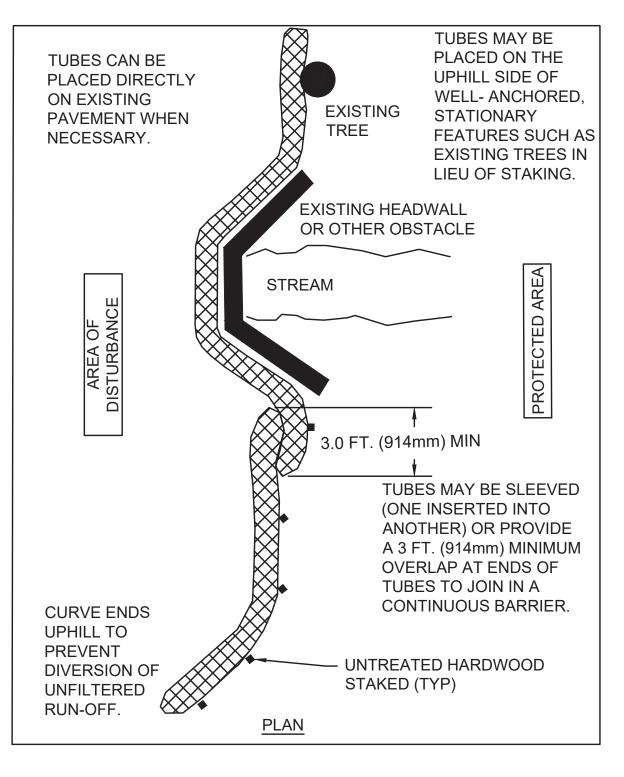
MINIMUM 12 INCHES (300mm) IN DIAMETER WITH AN EFFECTIVE HEIGHT OF

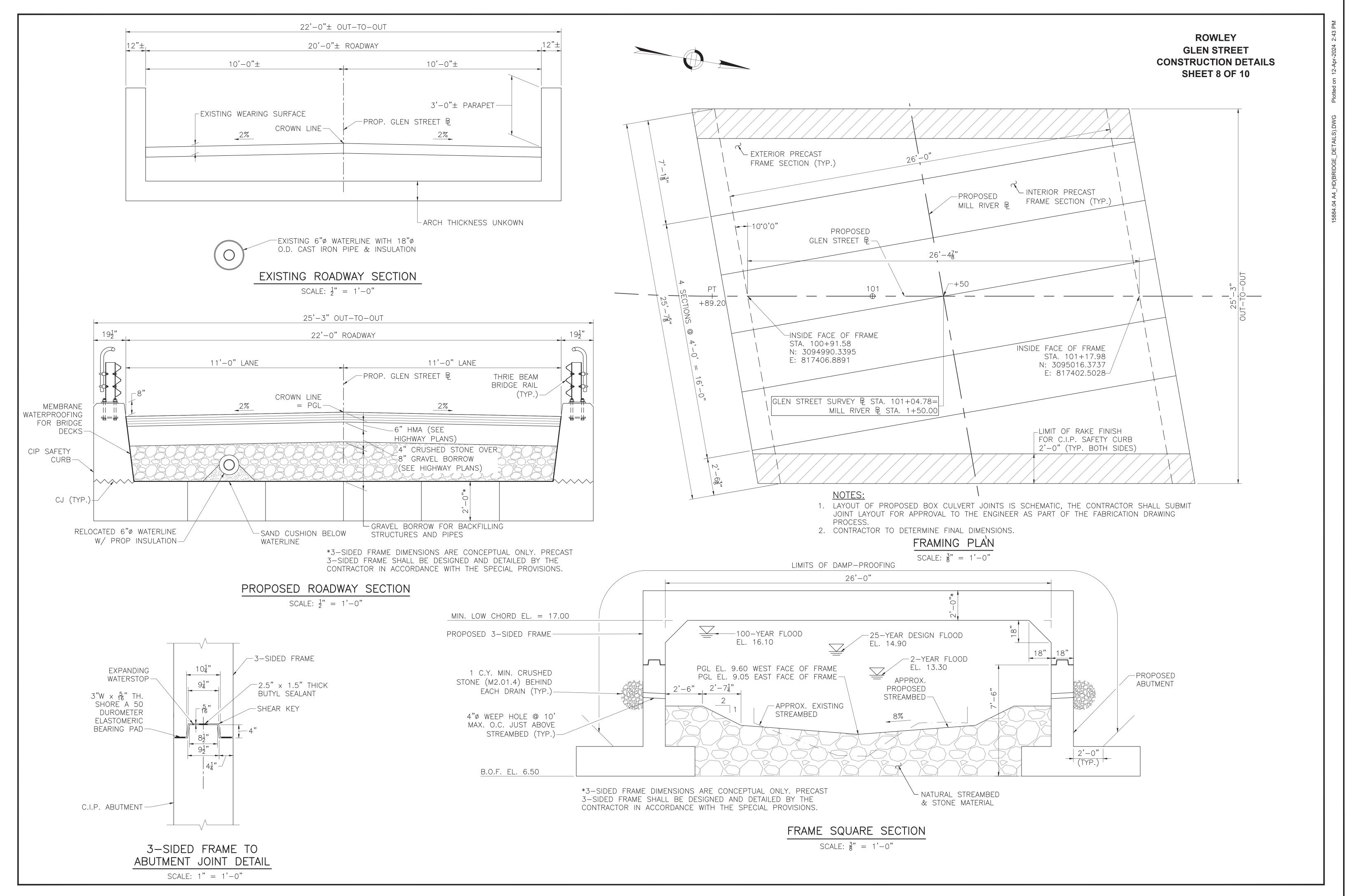
TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT

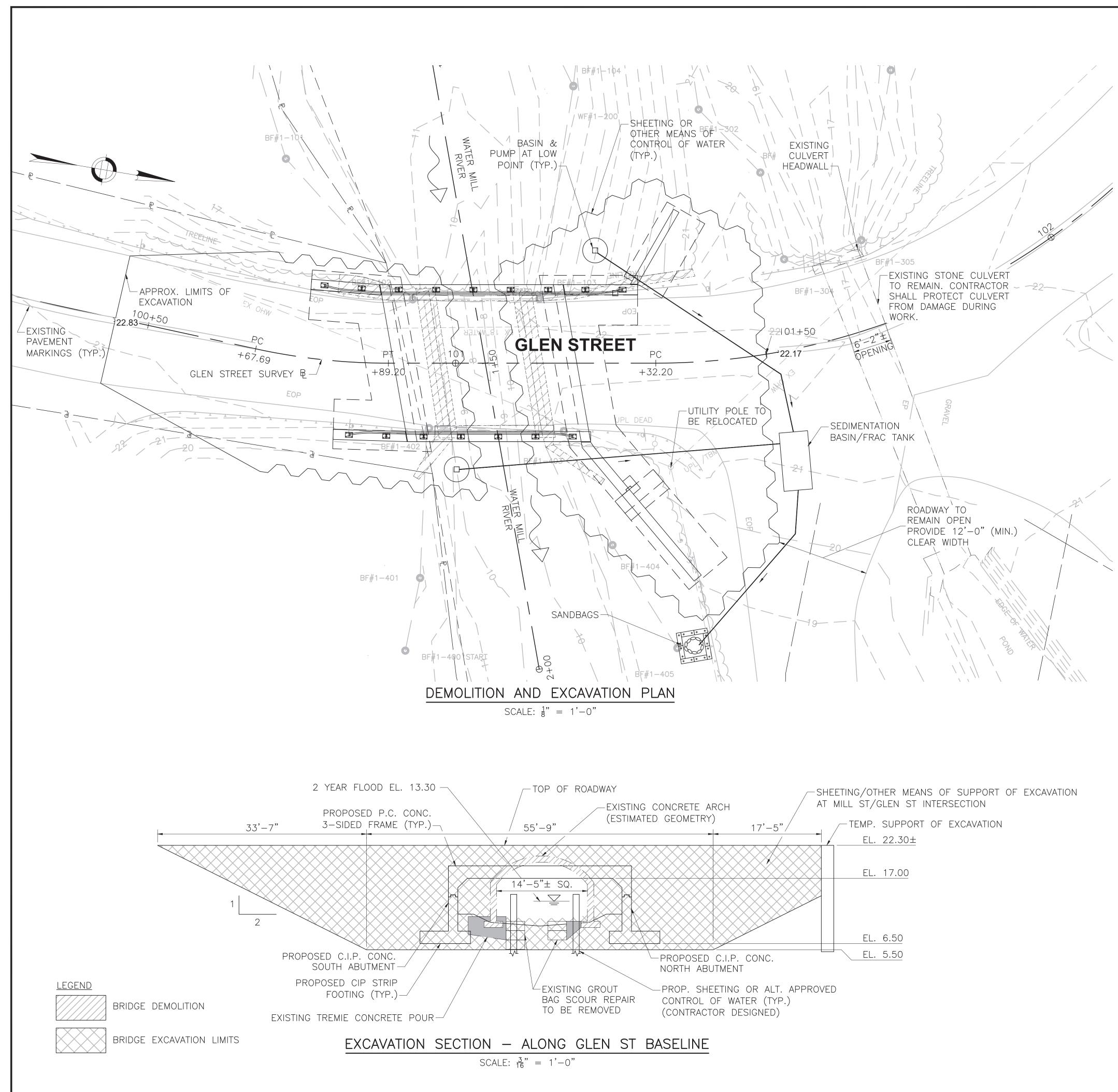
- COMPOST TUBES SHALL BE STAKED OR LEANED AGAINST SUPPORTS (TREES, CINDER BLOCKS) ON SLOPES 2:1 OR GREATER.

WHERE NECESSARY, STAKING SHALL BE MIN. 1 INCH X 1 INCH X 3 FEET UNTREATED HARDWOOD STAKES, UP TO 5 FT. (1.5m) APART OR AS REQUIRED TO SECURE TUBES IN PLACE. TUBES SHALL BE STAKED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

UNDISTURBED SOIL & VEGETATION. TUBES SHALL BE PLACED AS CLOSE TO LIMITS OF SOIL DISTURBANCE AS POSSIBLE.



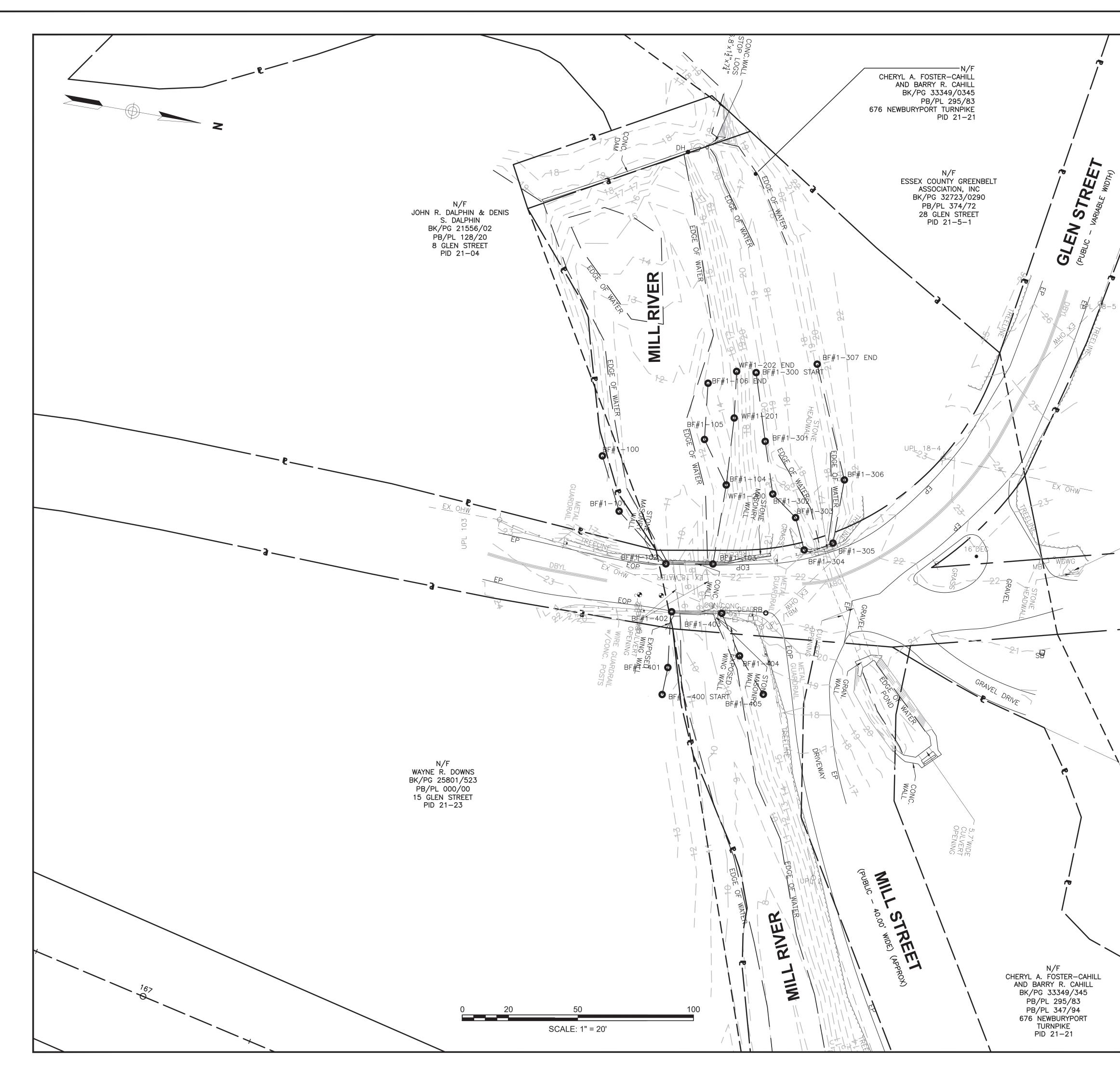




ROWLEY **GLEN STREET CONTROL OF WATER** SHEET 9 OF 10

CONSTRUCTION NOTES:

- 1. THE CONTROL OF WATER SHOWN IS CONCEPTUAL. FINAL CONTROL OF WATER METHODS WILL BE PROPOSED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER DURING CONSTRUCTION PHASE.
- 2. CONTRACTOR SHALL PERFORM ALL PROPOSED WORK IN COMPLIANCE WITH THE ORDER OF CONDITIONS ISSUED BY THE ROWLEY CONSERVATION COMMISSION.
- 3. CONTRACTOR SHALL DISPOSE OF ANY SUITABLE OR EXCESS EARTH MATERIAL. EXCAVATE FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WATER CONTROL PLAN TO THE ENGINEER FOR APPROVAL. THE WATER CONTROL PLAN SHALL DEFINE AND DETAIL THE METHODS FOR CONTROL OF WATER AND TYPE OF INSTALLATION TO BE USED.
- 5. CONSTRUCTION SHALL BE COMPLETED DURING THE DRY SEASON. SEE SPECIFICATIONS FOR CONTROL OF WATER REQUIREMENTS.



N/F RICHARD SMITH AND JOY SMITH BK/PG 35602/349 PB/PL 274/1959 27 GLEN STREET PID 21-20 __INV 12" RCP EL=17.46' OLD ROAD TO NEWBURYPORT (PUBLIC - VARIABLE WIDTH)

ROWLEY GLEN STREET EXISTING CONDITIONS PLAN SHEET 10 OF 10

