MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF

ROUTE 44 (DEAN STREET)

IN THE CITY OF

TAUNTON

BRISTOL COUNTY

FEDERAL AID PROJECT NO.
STP/HPP/CMQ-0035(015)X

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	1	185
PROJECT FILE NO.	606024		

TITLE SHEET & INDEX

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.

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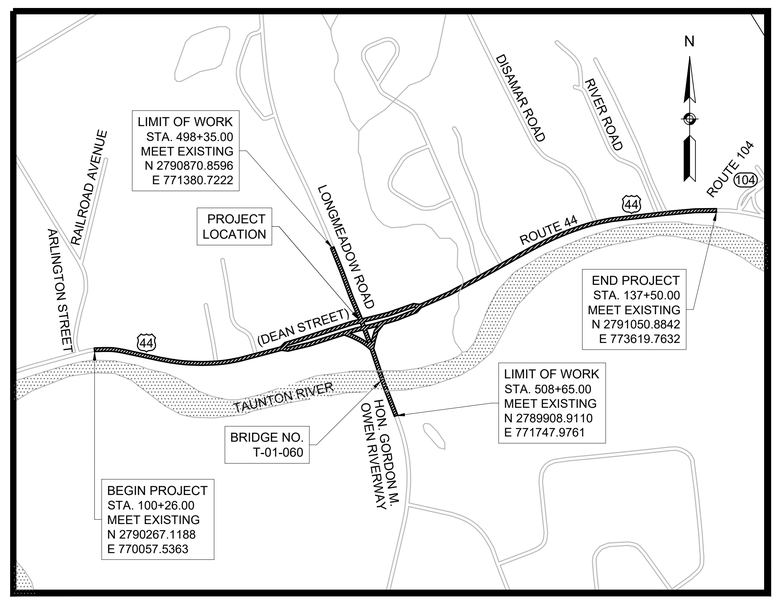


0 400 800 1200 1600

SCALE: 1" = 400'

LENGTH OF PROJECT = 4,754.00 FEET = 0.900 MILES

DESIGN DESIGNATION

STREET NAME	ROUTE 44 (DEAN STREET)	LONGMEADOW ROAD/ HON. GORDON M. OWEN RIVERWAY
DESIGN SPEED	40 MPH	40 MPH
ADT (2018)	35,700 VPD	18,500 VPD
ADT (2038)	39,400 VPD	20,450 VPD
K	7.2%	9.3%
D	54%	61%
T (PEAK HOUR)	3.0%	3.8%
T (AVERAGE DAY)	3.0%	3.8%
DHV	4,140 VPH	1,910 VPH
DDHV	2,690 VPH	1,160 VPH
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL	URBAN COLLECTOR

COMMONWEALTH OF MASSACHUSETTS
TIMOTHY LETTON
CIVIL
No. 53308
REGISTERED PROFESSIONAL ENGINEER

Digitally signed by Timothy Letton
Date: 2022.08.30 10:37:12 -04'00'

DATE	DESCRIPTION	REV #

massDOT
Massachusetts Department of Transportation
Highway Division

GPI Engineering Design Planning Construction Management
978.570.2999 GPINET.COM
Greenman-Pedersen, Inc.
181 Ballardvale Street, Suite 202
Wilmington, MA 01887

APPROVED

Carrie Lavallee, P.E.

Digitally signed by Carrie Lavallee, P.E.
Date: 2022.09.01 13:48:18 -04'00'

09/01/2022

CHIEF ENGINEER, P.E. DATE

606024_HD_(CSLE).DWG Plotted on 30-Aug-2022 9:50 AM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SILT FENCE/COMPOST FILTER TUBES
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		100 YEAR FLOOD ZONE

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE (12" WHITE)
	CW	CROSSWALK (12" OR 24")
	SWL	SOLID WHITE LINE (6" OR 12")
	SYL	SOLID YELLOW LINE (6" OR 12")
	BWL *	BROKEN WHITE LINE (6")
	BYL *	BROKEN YELLOW LINE (6")
	DWL ***	DOTTED WHITE LINE (6")
	DYL ***	DOTTED YELLOW LINE (6")
	DWLEx **	DOTTED WHITE LINE EXTENSION (6")
	DYLEx **	DOTTED YELLOW LINE EXTENSION (6")
	DBWL *	DOUBLE WHITE LINE (6")
	DBYL *	DOUBLE YELLOW LINE (6")

* BROKEN WHITE/YELLOW LINES TO BE 10' LINE SEGMENTS WITH 30' GAPS (TYP.) (BYL ON SHARED USE PATH TO BE 3' IN LENGTH WITH 9' GAP)

** DWLEx AND DYLEx LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)

*** DWL AND DYL LINES TO BE 3' IN LENGTH WITH 9' GAP (TYP.) (IF WIDE LINE IS SPECIFIED, THE WIDTH SHALL BE 12")

GENERAL NOTES

1. TOPOGRAPHICAL INFORMATION WAS PROVIDED BY CCR ASSOCIATES IN 2014 (617) 769-0111. SUPPLEMENTAL SURVEY WAS PROVIDED BY GREENMAN PEDERSEN, INC. IN MARCH AND OCTOBER, 2017. VERTICAL DATUM IS BASED ON NAVD88. HORIZONTAL DATUM IS BASED ON NAD83.
2. THE LOCATIONS AND SIZES OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
3. WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
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.
5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
6. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R&R).
7. IT IS INTENDED THAT EXISTING GRANITE CURB IS TO BE USED IN PROPOSED WORK TO THE MAXIMUM EXTENT. THE ENGINEER SHALL DETERMINE THE SUITABILITY OF THE CURB FOR RE-USE. EXISTING AND PROPOSED GRANITE CURB SHALL NOT BE INTERSPERSED. THE COST OF CURB REMOVED AND RESET SHALL INCLUDE THE TRANSPORTING OF THE CURB TO A LOCATION WITHIN THE PROJECT LIMITS.
8. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
9. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
10. ALL 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.
11. ALL TRANSVERSE JOINTS, AND ALL LONGITUDINAL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT POURED RUBBERIZED ASPHALT ADHESIVE MEETING THE REQUIREMENTS OF ITEM 453.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	2	185
PROJECT FILE NO.	606024		

LEGEND & ABBREVIATIONS

12. ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM FOR ROADSIDES PLACED AND SEEDED. THE LOAM FOR ROADSIDES SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
13. THE LIMIT OF WORK AREA SHALL BE THE STREET RIGHT OF WAY UNLESS SHOWN OTHERWISE.
14. PRIOR TO THE START OF ANY NEW UTILITY WORK, ALL ELEVATIONS OF EXISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIED. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES OCCUR.
15. THE TOPMOST SURFACE OF ALL CASTINGS SHALL BE SET FLUSH WITH FINISHED GRADE.
16. ALL PUBLICLY OWNED GATE BOXES, SERVICE BOXES, MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
17. ALL NEW SIDEWALKS AND DRIVEWAY GRADES SHALL MATCH EXISTING GRADES AT BACK OF SIDEWALK LINE UNLESS SHOWN OTHERWISE ON THE PLANS AND CROSS SECTIONS.
18. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL EXISTING TREES AND ROOTS THAT ARE NOT DESIGNATED FOR REMOVAL.
19. CONTRACTOR TO CONTACT ENGINEER PRIOR TO INSTALLATION OF BOUNDS FOR FINAL LOCATIONS.
20. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

GENERAL ABBREVIATIONS

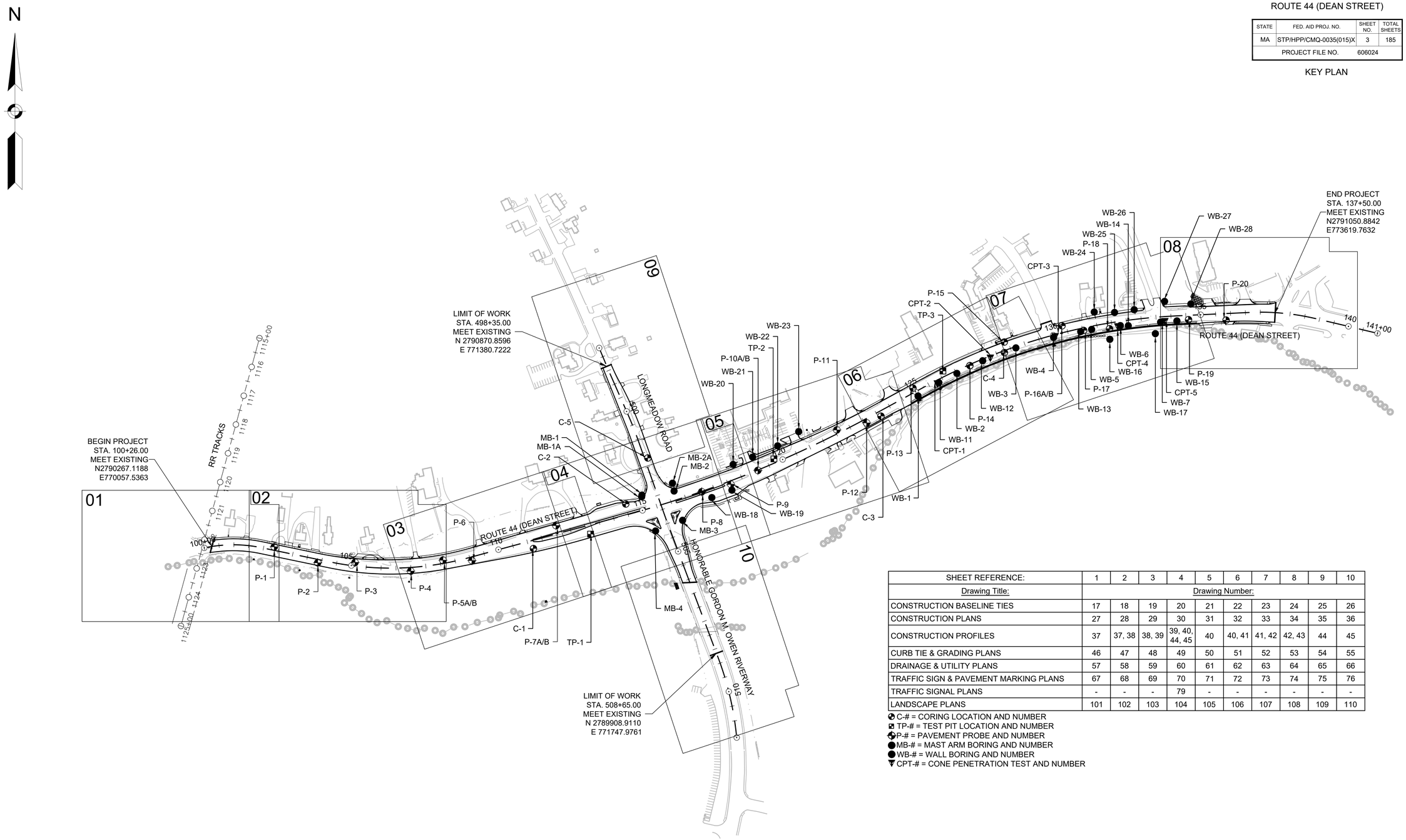
AADT	ANNUAL AVERAGE DAILY TRAFFIC	EXC	EXCAVATION	PVC	POINT OF VERTICAL CURVATURE
ABAN	ABANDON	F&C	FRAME AND COVER	PVCC	POINT OF VERTICAL COMPOUND CURVATURE
ADJ	ADJUST	F&G	FRAME AND GRATE	PVI	POINT OF VERTICAL INTERSECTION
APPROX.	APPROXIMATE	FDN.	FOUNDATION	PVRC	POINT OF VERTICAL REVERSE CURVATURE
A.C.	ASPHALT CONCRETE	FLDSTN	FIELDSTONE	PVT	POINT OF VERTICAL TANGENCY
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	GAR	GARAGE	PVMT	PAVEMENT
BIT.	BITUMINOUS	GD	GROUND	PWW	PAVED WATER WAY
BC	BOTTOM OF CURB	GG	GAS GATE	R	RADIUS OF CURVATURE
BD.	BOUND	GI	GUTTER INLET	R&D	REMOVE AND DISPOSE
BL	BASELINE	GIP	GALVANIZED IRON PIPE	RCP	REINFORCED CONCRETE PIPE
BLDG	BUILDING	GRAN	GRANITE	RD	ROAD
BM	BENCHMARK	GRAV	GRAVEL	RDWY	ROADWAY
BO	BY OTHERS	GRD	GUARD	REM	REMOVE
BOS	BOTTOM OF SLOPE	HDW	HEADWALL	RET	RETAIN
BR.	BRIDGE	HMA	HOT MIX ASPHALT	RET WALL	RETAINING WALL
BW	BOTTOM OF WALL	HOR	HORIZONTAL	ROW	RIGHT OF WAY
CB	CATCH BASIN	HYD	HYDRANT	RR	RAILROAD
CBCI	CATCH BASIN WITH CURB INLET	INV	INVERT	R&R	REMOVE AND RESET
CC	CEMENT CONCRETE	JCT	JUNCTION	R&S	REMOVE AND STACK
CCM	CEMENT CONCRETE MASONRY	L	LENGTH OF CURVE	RT	RIGHT
CEM	CEMENT	LB	LEACH BASIN	SB	STONE BOUND
CI	CURB INLET	LP	LIGHT POLE	SHLD	SHOULDER
CIP	CAST IRON PIPE	LT	LEFT	SMH	SEWER MANHOLE
CIPP	CURED IN PLACE PIPE	MAX	MAXIMUM	ST	STREET
CIT	CHANGE IN TYPE	MB	MAILBOX	STA	STATION
CLF	CHAIN LINK FENCE	MH	MANHOLE	SSD	STOPPING SIGHT DISTANCE
CL	CENTERLINE	MHB	MASSACHUSETTS HIGHWAY BOUND	SHLO	STATE HIGHWAY LAYOUT LINE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	SW	SIDEWALK
CSP	CORRUGATED STEEL PIPE	MJ	MECHANICAL JOINT	T	TANGENT DISTANCE OF CURVE/TRUCK %
CO.	COUNTY	NIC	NOT IN CONTRACT	TAN	TANGENT
CONC	CONCRETE	NO.	NUMBER	TEMP	TEMPORARY
CONT	CONTINUOUS	NTS	NOT TO SCALE	TC	TOP OF CURB
CONST	CONSTRUCTION	PC	POINT OF CURVATURE	TOS	TOP OF SLOPE
CR GR	CROWN GRADE	PCC	POINT OF COMPOUND CURVATURE	TW	TOP OF WALL
DHV	DESIGN HOURLY VOLUME	PCR	PEDESTRIAN CURB RAMP	TYP	TYPICAL
DI	DROP INLET	P.G.L.	PROFILE GRADE LINE	UP	UTILITY POLE
DIA	DIAMETER	PI	POINT OF INTERSECTION	VAR	VARIES
DIP	DUCTILE IRON PIPE	POC	POINT ON CURVE	VERT	VERTICAL
DW	STEADY DON'T WALK - PORTLAND ORANGE	POT	POINT ON TANGENT	VC	VERTICAL CURVE
DWY	DRIVEWAY	PRC	POINT OF REVERSE CURVATURE	WG	WATER GATE
ELEV (or EL.)	ELEVATION	PROJ	PROJECT	WIP	WROUGHT IRON PIPE
EMB	EMBANKMENT	PROP	PROPOSED	WM	WATER METER/WATER MAIN
EOP	EDGE OF PAVEMENT	PSB	PLANTABLE SOIL BORROW	WSO	WATER SHUT OFF
EXIST (or EX)	EXISTING	PT	POINT OF TANGENCY	X-SECT	CROSS SECTION

606024_HD_(CSLE).DWG Plotted on 26-Aug-2022 5:38 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	3	185
PROJECT FILE NO.	606024		

KEY PLAN



SHEET REFERENCE:	1	2	3	4	5	6	7	8	9	10
Drawing Title:	Drawing Number:									
CONSTRUCTION BASELINE TIES	17	18	19	20	21	22	23	24	25	26
CONSTRUCTION PLANS	27	28	29	30	31	32	33	34	35	36
CONSTRUCTION PROFILES	37	37, 38	38, 39	39, 40, 44, 45	40	40, 41	41, 42	42, 43	44	45
CURB TIE & GRADING PLANS	46	47	48	49	50	51	52	53	54	55
DRAINAGE & UTILITY PLANS	57	58	59	60	61	62	63	64	65	66
TRAFFIC SIGN & PAVEMENT MARKING PLANS	67	68	69	70	71	72	73	74	75	76
TRAFFIC SIGNAL PLANS	-	-	-	79	-	-	-	-	-	-
LANDSCAPE PLANS	101	102	103	104	105	106	107	108	109	110

C-# = CORING LOCATION AND NUMBER
TP-# = TEST PIT LOCATION AND NUMBER
P-# = PAVEMENT PROBE AND NUMBER
MB-# = MAST ARM BORING AND NUMBER
WB-# = WALL BORING AND NUMBER
CPT-# = CONE PENETRATION TEST AND NUMBER

0 150 300 450 600
SCALE: 1" = 150'

606024_HD_(KEY).DWG Plotted on 26-Aug-2022 5:38 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	4	185
PROJECT FILE NO.	606024		

BORING LOGS

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-1
Boring Location: N: 2790439, E: 771498
Checked by: K. Jelinek
Date Start: September 27, 2017
Date Finish: September 27, 2017

Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke

Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 10
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8	09/27/17	11:20	6.3 (hole collapsed)	Out	6.3	15 minutes
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	5	0.5-2	2	ASPHALT 9.5 / 0.5	6 inches of Asphalt.	1
				2		S-1: Very loose, gray-brown, fine to coarse SAND and fine to coarse Gravel, trace Silt, several asphalt particles. wet. (FILL).	
2				1			
	S-2	5	2-4	4	FILL	S-2: Loose, gray-brown, fine to coarse SAND, trace Silt, numerous asphalt particles. wet. (FILL).	
3				3			
4				3			
	S-3	10	4-6	4		S-3: Medium dense, orange-brown with black, fine to coarse SAND and Silt, little fine Gravel, organic-like odor wet. (FILL). [Laboratory Test Performed: Particle Size Analysis (Sieve Only) - Gravel = 11.1%, Sand = 50.8 %, Silt & Clay = 38.1%].	
5				8			
				3			
6				6	4.0 / 6.0		
	S-4	4	6-8	8	FINE DEPOSITS	S-4: Stiff, gray with orange mottling, Silty CLAY, trace fine Sand. wet.	
7				5			
				4			
8				4			
9							
	S-5	19	9-11	1		S-5: Soft, gray, Silty CLAY, trace fine Sand. wet.	
10				1			
				2			
11				2			
12							
13							
14							
	S-6	21	14-16	1		S-6: Very soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 1.0 %, Silt & Clay = 99.0%].	
15				WOR			
				1			
16				WOR			
17							
18							
19							
	S-7	15	19-21	2		S-7: Soft, gray, Silty CLAY, trace fine Sand. wet.	
20				2			
21				2	-11.0 / 21.0		
22						Boring terminated at 21 feet.	2
23							
24							
25							

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 1

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-1A
Boring Location: N: 2790434, E: 771497
Checked by: S. Kurtzer
Date Start: December 11, 2020
Date Finish: December 11, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway

Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 10
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8	▼ 12/11/20	12:11	10.2	34	34.6	40 minutes
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
					9.7 / 0.3 ASPHALT	3.5 inches of Asphalt.	1
1					FILL	Test boring was vacuum excavated to 6 feet below ground surface (bgs) to clear for underground utilities.	
2							
3							
4							
	S-1	7	4-6	2		S-1A (4"): Medium stiff, tan and gray with bands of orange staining, SILT & CLAY, some fine to medium Sand. Wet. (FILL).	
5				2		S-1B (3"): Loose, tan with orange staining, fine to medium SAND, some Silt. Wet. (FILL).	
				3			
6				5	3.5 / 6.5		
	S-2	13	6-8	7	ALLUVIUM 2.0 / 8.0	S-2A (6"): Medium dense, grayish brown with orange staining, fine to coarse SAND, some Silt, little fine Gravel. Wet. (FILL).	
7				8		S-2B (7"): Medium dense, grayish tan with orange staining, fine to medium SAND, some Silt. Wet.	
				12			
8				11			
	S-3	15	8-10	4	FINE DEPOSITS	S-3: Medium stiff, gray, CLAY & SILT, trace fine Sand. Wet.	
9				4			
				4			
10				4			
11							
12							
13							
14							
	S-4	22	14-16	2		S-4: Very soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
15				1			
				1			
16				1			
17							
18							
19							
	S-5	18	19-21	1		S-5: Soft, gray, CLAY & SILT. Occasional silt seams. Wet.	
20				1			
				2			
21				4			
22							
23							
24							
	S-6	14	24-26	2		S-6: Medium stiff, gray, CLAY & SILT. Wet.	
25				2			

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 2

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-1A
Boring Location: N: 2790434, E: 771497
Checked by: S. Kurtzer
Date Start: December 11, 2020
Date Finish: December 11, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway

Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 10
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8	▼ 12/11/20	12:11	10.2	34	34.6	40 minutes
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
				3	FINE DEPOSITS -18.0 / 28.0		
26				2			
27							
28							
29						Stratum change inferred from increased drilling resistance.	
	S-7	6	29-31	19	COARSE DEPOSITS	S-7: Medium dense, gray, fine to coarse SAND, some fine Gravel, little Silt. Wet.	
30				10			
				9			
31				8			
32							
33							
34							
	S-8		34-34.5	75	-24.5 / 34.5	S-8: Very dense, gray, fine to coarse GRAVEL, some fine to coarse Sand, little Silt. Wet.	
35						Boring terminated at 34.5 feet.	2
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 2 of 2

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-2
Boring Location: N: 2790453, E: 771606
Checked by: K. Jelinek
Date Start: September 27, 2017
Date Finish: September 27, 2017

Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke

Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8						
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
					ASPHALT 10.4 / 0.6	7 inches of Asphalt.	1
1	S-1	10	0.5-2	2	FILL	S-1: Dense, gray-brown, fine to coarse GRAVEL and fine to coarse Sand, little Silt, several asphalt particles. wet. (FILL).	
				18			
2				31			
	S-2	10	2-4	13		S-2: Dense, gray-brown, fine to coarse SAND, some Fine Gravel, little Silt, numerous asphalt particles. wet. (FILL).	
3				19			
				12			
4				13			
	S-3	0	4-6	4		S-3: Stiff, gray to brown and black with orange staining, Silty CLAY, some fine Sand. wet. (FILL). No recovery obtained with 1-3/8" ID split-spoon. 3" ID split-spoon advanced.	
5				6			
				6			
6							
	S-4	3	6-8	10		S-4: Very stiff, gray to brown and black with orange staining, Silty CLAY, some fine to coarse Sand, trace fine Gravel, few asphalt particles. wet. (FILL).	
7				13			
				8			
8				8	2.0 / 9.0		
9							
	S-5	24	9-11	3	FINE DEPOSITS	S-5A (12"): Soft, gray with orange mottling, Silty CLAY, trace fine Sand. wet.	
10				2			
				2		S-5B (12"): Soft, gray, Silty CLAY, trace fine Sand. wet.	
11				2			
12							
13							
14							
	S-6	24	14-16	1		S-6: Very soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Atterberg Limits - CL, MC = 38%, LL = 32, PL = 22, PI = 10, LI = 1.6].	
15				1			
				1			
16				1			
17							
18							
19							
	S-7	24	19-21	WOR		S-7: Very soft, gray, Silty CLAY, trace fine Sand. wet.	
20				1			
				1			
21				2	-10.0 / 21.0		
22						Boring terminated at 21 feet.	2
23							
24							
25							

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 1

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-2A
Boring Location: N: 2790479, E: 771601
Checked by: S. Kurtzer
Date Start: December 15, 2020
Date Finish: December 15, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway

Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 10.5
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8	▼ 12/15/20	12:12	8.2	34	35.5	45 minutes
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
					ASPHALT 9.9 / 0.6	7 inches of Asphalt.	1
1					FILL	Test boring was vacuum excavated to 4 feet below ground surface (bgs) to clear for underground utilities.	
2							
3							
4							
	S-1	18	6-8	9		S-1A (4"): Very stiff, gray with orange staining, SILT & CLAY, some fine to coarse Sand. Moist. (FILL).	
5				11		S-1B (9"): Medium dense, gray, fine to coarse SAND, some Silt, trace fine Gravel. Moist. (FILL).	
6				10		S-1C (9"): Medium dense, orange, fine to coarse SAND & SILT. Moist. (FILL).	
7				10		S-2A (12"): Loose, brownish gray, fine to coarse SAND, little Silt. Wet. (FILL).	
8				10	1.5 / 9.0		
	S-2	24	8-10	WOH	FINE DEPOSITS	S-2B (12"): Stiff, gray, CLAY & SILT. Wet.	
9				5			
				4			
10				2			
11							
12							
13							
14							
	S-3	23	14-16	1		S-3: Very soft, gray, CLAY & SILT. Wet.	
15				1			
				1			
16				1			
17							
18							
19							
	S-4	19	19-21	1		S-4: Very soft, gray, CLAY & SILT. Wet.	
20				1			
				1			
21				2			
22							
23							
24							
	S-5	17	24-26	3		S-5: Soft, gray, CLAY & SILT. Wet.	
25				2			

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 2

BORING LOG

nobis

Project: Route 44 (Dean Street) Reconstruction
MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: MB-2A
Boring Location: N: 2790479, E: 771601
Checked by: S. Kurtzer
Date Start: December 15, 2020
Date Finish: December 15, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway

Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 10.5
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: Split-Spoon	Groundwater Observations: Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4	1-3/8	▼ 12/15/20	12:12	8.2	34	35.5	45 minutes
Advancement	Drive and Wash	140-lb Hammer						

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
				2	FINE DEPOSITS -16.5 / 27.0		
26				3			
27							
28							
29						Stratum change inferred from increased drilling resistance.	
	S-6	3	29-31	14	COARSE DEPOSITS	S-6: Medium dense, gray, fine to coarse GRAVEL, some fine to coarse Sand, some Silt. Wet.	
30				13			
				9			
31				6			
32							
33							
34							
	S-7	8	34-35.5	14		S-7: Very dense, gray, fine to medium SAND, some fine Gravel, some Silt. Wet.	
35				53			
				75	-25.0 / 35.5		
36						Boring terminated at 35.5 feet.	2
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

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BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE PLAN THUS:
   - C-# = CORING LOCATION AND NUMBER
   - TP-# = TEST PIT LOCATION AND NUMBER
   - P-# = PAVEMENT PROBE AND NUMBER
   - MB-# = MAST ARM BORING AND NUMBER
   - WB-# = WALL BORING AND NUMBER
   - CPT-# = CONE PENETRATION TEST AND NUMBER
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE 1-3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL STATION AT 10 PARK PLAZA, BOSTON, MA.
6. NOBIS SUBSURFACE EXPLORATIONS WERE COMPLETED AS FOLLOWS:
   - TEST PROBES P-1 THROUGH P-20, PAVEMENT CORES C-1 THROUGH C-5, TEST PITS TP-1 THROUGH TP-3, AND TEST BORINGS MB-1 THROUGH MB-4 AND WB-1 THROUGH WB-7 WERE PERFORMED BY NORTHERN DRILL SERVICE, INC. (NDS) OF NORTHBOROUGH, MASSACHUSETTS BETWEEN SEPTEMBER 12 AND OCTOBER 3, 2017.
   - TEST BORINGS MB-1A, MB-2A, WB-11 THROUGH WB-15, AND WB-18 THROUGH WB-28 WERE PERFORMED BY NDS BETWEEN DECEMBER 7, 2020 AND FEBRUARY 5, 2021.
   - BARGE TEST BORINGS WB-16 AND WB-17 WERE PERFORMED BY NEW ENGLAND BORING CONTRACTORS (NEBC) OF DERRY, NEW HAMPSHIRE BETWEEN JULY 8 AND 12, 2021.
   - CONE PENETRATION TESTS CPT-1 THROUGH CPT-5 WERE PERFORMED BY CONETEC OF WEST BERLIN, NEW JERSEY ON OCTOBER 12, 2021.
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.

606024_HD_(KEY).DWG Plotted on 26-Aug-2022 5:38 PM

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 11/9/21 15:25 - J:\89010.00 - MASSDOT STATEWIDE DESIGN & REVIEW - GPI 77864\89010.06 - MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\EXPLORATIONS\BORING LOGS\GINT

BORING LOG — MB-3

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	MB-3
Boring Location:	N: 2790355, E: 771634
Checked by:	K. Jelinek
Date Start:	September 27, 2017
Date Finish:	September 27, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	Z. Nader
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 11
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/27/17	08:50	5.7	9	21	10 minutes
09/27/17	08:55	5.8	Out	21	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.2 / 0.8	9 inches of Asphalt.	
S-1	7	0.5-2	3, 11, 16	FILL	S-1: Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. wet. (FILL).	1
S-2	15	2-4	7, 16, 11, 14	FILL	S-2A (9"): Medium dense, gray-brown, fine to coarse SAND, trace Silt, numerous asphalt particles. wet. (FILL). S-2B (6"): Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. wet. (FILL).	
S-3	8	4-6	7, 8, 6, 4	FILL 5.0 / 6.0	S-3: Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. wet. (FILL).	
S-4	12	6-8	1, WOR, 1, 1	ALLUVIUM 4.5 / 6.5	S-4A (6"): Very loose, gray-brown, fine to coarse SAND and fine to coarse Gravel, trace Silt. wet. S-4B (6"): Very soft, gray, Silty CLAY, little fine Sand. very few organic fibers, organic-like odor. wet.	
S-5	15	9-11	7, 5, 5, 7	FINE DEPOSITS	S-5: Stiff, gray with mottling, Silty CLAY, little fine Sand. very few organic fibers wet.	
S-6	18	14-16	4, 3, 3, 4	FINE DEPOSITS	S-6: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-7	12	19-21	3, 4, 4, 5	-10.0 / 21.0	S-7: Medium stiff, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 0.3 %, Silt & Clay = 99.7%].	
					Boring terminated at 21 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 1 of 1

BORING LOG — MB-4

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	MB-4
Boring Location:	N: 2790319, E: 771544
Checked by:	K. Jelinek
Date Start:	September 26, 2017
Date Finish:	September 26, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	Z. Nader
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 11
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/26/17	10:15	4.7	10	21	25 minutes
09/26/17	10:30	5.3	Out	21	40 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.2 / 0.8	10 inches of Asphalt.	
S-1	6	1-2	11, 15	FILL	S-1: Medium dense, brown, fine to coarse SAND and fine Gravel, little Silt. moist. (FILL).	1
S-2	12	2-4	8, 16, 17, 21	FILL	S-2: Dense, brown, fine to coarse SAND, some fine Gravel, little Silt, several asphalt particles. wet. (FILL).	
S-3	10	4-6	6, 3, 3, 2	FILL	S-3A (6"): Loose, gray, fine to coarse SAND, some fine Gravel, little Silt, few wood fragments. wet. (FILL). S-3B (4"): Medium stiff, gray-brown, CLAY & SILT, some fine Sand, very few organic fibers, faint organic-like odor. wet. (FILL).	
S-4	1	6-8	1, 1, 1, 1	FILL	S-4: Very loose, gray, fine to coarse SAND and fine Gravel, trace Silt. wet. (FILL).	
S-5	18	8-10	1, 1, 3, 5	1.7 / 9.3	S-5A (16"): Soft, gray with orange and brown staining, Silty CLAY and fine Sand. few roots and wood fragments. wet. (FILL). S-5B (2"): Soft, gray with orange mottling, Silty CLAY and fine Sand. very few roots. wet.	
S-6	16	10-12	8, 6, 5, 6	FINE DEPOSITS	S-6A (7"): Stiff, gray with orange mottling, Silty CLAY and fine Sand. wet. S-6B (9"): Stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-7	19	14-16	5, 4, 4, 5	FINE DEPOSITS	S-7: Medium stiff, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Atterberg Limits - CL, MC = 34%, LL = 32, PL = 21, PI = 11, LI = 1.2].	
S-8	16	19-21	2, 3, 2, 2	-10.0 / 21.0	S-8: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
					Boring terminated at 21 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 1 of 1

BORING LOG — WB-1 (Page 1 of 2)

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	WB-1
Boring Location:	N: 2790772, E: 772423
Checked by:	K. Jelinek
Date Start:	September 26, 2017
Date Finish:	September 28, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	Z. Nader
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 11.5
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/28/17	10:15	9	9	31	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.8 / 0.7	8 inches of Asphalt.	
				CONCRETE 10.2 / 1.3	Drilling resistance observed between approximately 0.7 feet and 1.3 feet below ground surface. 7 inches of Concrete sub-base.	
S-1	11	2-4	8, 11, 11, 8	FILL	S-1: Medium dense, gray, fine to coarse GRAVEL and fine to coarse Sand, trace Silt. wet. (FILL).	1
S-2	3	4-6	4, 4, 27, 17	FILL 5.5 / 6.0	S-2: Dense, gray-brown, fine to coarse GRAVEL, little fine to coarse Sand, trace Silt. wet. (FILL).	
S-3	16	6-8	3, 3, 2, 2	ORGANIC DEPOSITS 3.5 / 8.0	S-3: Loose, gray-brown to black with red staining, Organic SILT, little fine Sand, very few root fibers and wood fragments. wet. (ORGANIC DEPOSITS). [Laboratory Test Performed: MC = 40.8%].	
S-4	4	9-11	3, 3, 2, 2	FINE DEPOSITS	S-4: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-5	15	14-16	2, 2, 2, 2	FINE DEPOSITS	S-5: Soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 0.7 %, Silt & Clay = 99.3%].	
S-6	0	19-21	2, 5, 4, 4	FINE DEPOSITS	S-6: No recovery.	
S-7	14	24-26	2, 2	-13.3 / 24.8	S-7A (10"): Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 1 of 2

BORING LOG — WB-1 (Page 2 of 2)

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	WB-1
Boring Location:	N: 2790772, E: 772423
Checked by:	K. Jelinek
Date Start:	September 26, 2017
Date Finish:	September 28, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	Z. Nader
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 11.5
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/28/17	10:15	9	9	31	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
			6, 10	COARSE DEPOSITS -16.5 / 28.0	S-7B (4"): Loose, gray, fine to coarse GRAVEL, some fine to coarse Sand, little Silt. wet.	
S-8	6	29-31	11, 9, 8, 11	DECOMPOSED BEDROCK -19.5 / 31.0	Inferred strata change at approximately 28 feet below ground surface based on increased drilling resistance. S-8: Medium dense, gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	
					Boring terminated at 31 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 2 of 2

BORING LOG — WB-2 (Page 1 of 2)

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	WB-2
Boring Location:	N: 2790847, E: 772553
Checked by:	K. Jelinek
Date Start:	September 12, 2017
Date Finish:	September 12, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	C. Bierholm
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 13
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/12/17	13:30	12.1	10	35.2	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 12.5 / 0.5	6 inches of Asphalt.	
S-1	1	0.5-0.6	50/1"	CONCRETE 11.4 / 1.6	S-1: Very dense, Concrete fragments and particles. Drilling resistance observed between approximately 0.6 feet and 1.6 feet below ground surface. 13 inches of Concrete sub-base.	
S-2	8	2-4	8, 8, 5, 3	FILL	S-2: Medium dense, brown to dark brown, fine to coarse GRAVEL and fine to coarse Sand, some Silt, few asphalt particles. wet. (FILL).	1
S-3	12	4-6	4, 2, 5, 6	FILL 8.3 / 4.7; ALLUVIUM 7.0 / 6.0	S-3A (8"): Loose, light gray-brown, fine to medium SAND and Silt. wet. (FILL). S-3B (4"): Loose, light brown, fine to coarse SAND, trace fine Gravel, trace Silt. wet.	
S-4	9	6-8	4, 2, 3, 5	FINE DEPOSITS	S-4: Medium stiff, gray with orange mottling, Silty CLAY, little fine Sand. wet.	
S-5	24	9-11	2, 2, 2, 1	FINE DEPOSITS	S-5: Soft, gray, Silty CLAY, trace fine Sand, trace fine Gravel. wet.	
S-6	24	14-16	1, 1, 2, 3	FINE DEPOSITS	S-6: Soft, gray, Silty CLAY, trace fine Sand. wet.	
S-7	24	19-21	WOR, 1, 1, 1	FINE DEPOSITS	S-7: Very soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Atterberg Limits - CL, MC = 40%, LL = 34, PL = 22, PI = 12, LI = 1.5].	
S-8	22	24-26	1, 2	FINE DEPOSITS	S-8: Soft, gray, Silty CLAY, little fine Sand. wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 1 of 2

BORING LOG — WB-2 (Page 2 of 2)

nobis

Project:	Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06
Boring No.:	WB-2
Boring Location:	N: 2790847, E: 772553
Checked by:	K. Jelinek
Date Start:	September 12, 2017
Date Finish:	September 12, 2017
Contractor:	Northern Drill Service, Inc.
Driller:	C. Bierholm
Nobis Rep.:	P. Clarke
Rig Type / Model:	Truck / B-57 Mobile
Hammer Type:	Automatic Hammer
Hammer Hoist:	Automatic
Ground Surface Elev.:	(+/-) 13
Datum:	NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
09/12/17	13:30	12.1	10	35.2	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
			2, 2	FINE DEPOSITS -13.7 / 26.7		
				INFERRED COARSE DEPOSITS -15.0 / 28.0	Inferred strata change at approximately 26.7 feet below ground surface based on increased drilling resistance.	
S-9	8	29-31	18, 18, 15, 12	DECOMPOSED BEDROCK	Inferred strata change at approximately 28 feet below ground surface based on increased drilling resistance. S-9: Dense, gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	
S-10	10	34-35.2	11, 50, 50/2"	-22.2 / 35.2	S-10: Very dense, dark gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	
					Boring terminated at 35.2 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual. Page No. 2 of 2

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	5	185
PROJECT FILE NO.		606024	

BORING LOGS

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

Plotted on 26-Aug-2022 5:39 PM
606024_HD_(KEY).DWG

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	6	185
	PROJECT FILE NO.	606024	

BORING LOGS

BORING LOG — WB-3 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-3
Boring Location: N: 2790933, E: 772751
Checked by: K. Jelinek
Date Start: September 13, 2017
Date Finish: September 13, 2017
Contractor: Northern Drill Service, Inc.
Driller: C. Bierholm
Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 14.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/13/17	13:15	8.3	Out	33	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 13.9 / 0.6	7 inches of Asphalt.	
				CONCRETE 12.6 / 1.9	Drilling resistance observed between approximately 0.6 feet and 1.9 feet below ground surface. 16 inches of Concrete sub-base.	
S-1	10	2-4	8 18 14 13	FILL	S-1A (6"): Dense, light brown to black, fine to coarse GRAVEL and fine to coarse Sand, little Silt, few asphalt particles and fragments. moist. (FILL). S-1B (4"): Dense, light brown, fine to medium SAND, little Silt. dry. (FILL).	1
S-2	10	4-6	4 6 5 7	FILL 8.5 / 6.0	S-2A (9"): Medium dense, light brown with orange and black staining, fine to medium SAND, little Silt, very few asphalt particles. wet. (FILL). S-2B (1"): Stiff, gray with orange staining, coarse GRAVEL, some Clay, trace fine Sand. wet. (FILL).	
S-3	4	6-8	4 5 4 4	ALLUVIUM 6.5 / 8.0	S-3: Loose, light gray-brown, fine to medium SAND, some Silt, trace fine Gravel, pocket of Clay. wet. [Laboratory Test Performed: Particle Size Analysis (Sieve Only) - Gravel = 0.6%, Sand = 73.2%, Silt & Clay = 26.2%].	
S-4	24	9-11	2 2 2 2	FINE DEPOSITS	S-4: Soft, gray, Silty CLAY, trace fine Sand. wet.	
U-1	24	13-15		FINE DEPOSITS	U-1: Shelby tube sample obtained between approximately 13 feet and 15 feet below ground surface. [Laboratory Test Performed: One-Dimensional Consolidation].	
S-5	24	19-21	1 1 1 2	FINE DEPOSITS	S-5: Very soft, gray, Silty CLAY, trace fine Sand. wet.	
S-6	24	24-26	WOR 1	FINE DEPOSITS	S-6: Very soft, gray, Silty CLAY, trace fine Sand. wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 2

BORING LOG — WB-3 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring Location: N: 2790933, E: 772751; Checked by: K. Jelinek; Date Start: September 13, 2017; Date Finish: September 13, 2017; Contractor: Northern Drill Service, Inc.; Driller: C. Bierholm; Nobis Rep.: P. Clarke; Rig Type / Model: Truck / B-57 Mobile; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 14.5; Datum: NAVD 88

Casing / Split-Spoon; Size ID 4 / 1-3/8; Drive and Wash / 140-lb Hammer. Groundwater: ▼ 09/13/17, 13:15, 8.3, Out, 33, 15 minutes.

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
(S-6 cont.)			1 1	FINE DEPOSITS		
S-7	24	29-31	1 1 2 1	FINE DEPOSITS	S-7: Very soft, gray, Silty CLAY, little fine Sand. wet.	
S-8	12	31-33	2 4 6 5	-17.2 / 31.7	S-8A (8"): Medium stiff, gray, Silty CLAY, little fine Sand. wet.	
				COARSE DEPOSITS -18.3 / 32.8	S-8B (2"): Medium dense, gray, fine to coarse GRAVEL, some fine to coarse Sand, little Clayey Silt. wet.	
				DECOMPOSED BEDROCK -18.5 / 33.0	S-8C (2"): Medium dense, dark gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	2
					Boring terminated at 33 feet.	

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Page No. 2 of 2

BORING LOG — WB-4 (Page No. 1 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-4
Boring Location: N: 2790967, E: 772877
Checked by: K. Jelinek
Date Start: September 13, 2017
Date Finish: September 15, 2017
Contractor: Northern Drill Service, Inc.; Driller: C. Bierholm; Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13.5; Datum: NAVD 88

Casing / Split-Spoon; Size ID 4 / 1-3/8; Drive and Wash / 140-lb Hammer.

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/15/17	13:10	4.4	Out	27	10 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
				ASPHALT 13.0 / 0.5	6 inches of Asphalt.	
				CONCRETE 11.7 / 1.8	Drilling resistance observed between approximately 0.5 feet and 1.8 feet below ground surface. 16 inches of Concrete sub-base.	
S-1	10	2-4	8 14 10 9	FILL	S-1A (3"): Medium dense, gray-brown, fine to coarse GRAVEL, some fine to coarse Sand, little Silt. wet. (FILL). S-1B (4"): Medium dense, light brown, fine to coarse SAND and fine Gravel, trace Silt. moist. (FILL). S-1C (3"): Very stiff, gray-brown, Silty CLAY, some fine to coarse Sand. moist. (FILL).	1
S-2	7	4-6	7 9 6 4	FILL	S-2: Medium dense, gray-brown, fine to coarse GRAVEL and fine to coarse Sand, some Silt, pockets of Clayey Silt. wet. (FILL).	
S-3	4	6-8	3 4 3 4	FILL	S-3: Loose, brown, fine to coarse GRAVEL and Silt, some fine to coarse Sand. wet. (FILL).	
				FILL 4.0 / 9.5	Advanced through inferred (based on drill cuttings) wood between approximately 8 and 9.5 feet below ground surface.	
S-4	4	9.5-11.5	1 1 1 2	FINE DEPOSITS	S-4: Very soft, light gray-brown, Silty CLAY, some fine to coarse Sand, trace fine Gravel. wet. Low recovery. Advanced 3-inch diameter split-spoon to obtain more sample.	
S-5	8	14-16	3 3 3 3	FINE DEPOSITS	S-5: Medium stiff, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: MC= 36.9%].	
S-6	2	19-21	2 1 2 2	FINE DEPOSITS	S-6: Soft, gray, Silty CLAY, trace fine Sand. wet.	
S-7	13	24-25.3	1 2	-11.5 / 25.0	S-7A (12"): Soft, gray, Silty CLAY, little fine Sand. wet.	

NOTES:
1) Water introduced to borehole during drive and wash process.

Page No. 1 of 2

BORING LOG — WB-4 (Page No. 2 of 2)

Boring Location: N: 2790967, E: 772877; Date Start: September 13, 2017; Date Finish: September 15, 2017; Ground Surface Elev.: (+/-) 13.5. Groundwater: ▼ 09/15/17, 13:10, 4.4, Out, 27, 10 minutes.

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
(S-7 cont.)			50/4"	DECOMPOSED BEDROCK -13.5 / 27.0	S-7B (1"): Very dense, gray, DECOMPOSED BEDROCK particles and fragments. Wet. (DECOMPOSED BEDROCK). Roller bit to approximately 27 feet below ground surface.	
					Boring terminated at 27 feet.	2

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Page No. 2 of 2

BORING LOG — WB-5 (Page No. 1 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-5
Boring Location: N: 2790995, E: 773005
Checked by: K. Jelinek
Date Start: September 15, 2017
Date Finish: September 25, 2017
Contractor: Northern Drill Service, Inc.; Driller: C. Bierholm; Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13; Datum: NAVD 88

Casing / Split-Spoon; Size ID 4 / 1-3/8; Drive and Wash / 140-lb Hammer.

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/25/17	11:00	11.5	10	36	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
				ASPHALT 12.5 / 0.5	6 inches of Asphalt.	
				CONCRETE 11.1 / 1.9	Drilling resistance observed between approximately 0.5 feet and 1.9 feet below ground surface. 16 inches of Concrete sub-base.	
S-1	10	2-4	5 10 13 15	FILL	S-1: Medium dense, gray-brown to brown, fine to coarse GRAVEL and fine to coarse Sand, trace Silt, few asphalt particles, very few brick particles. wet. (FILL).	1
S-2	18	4-6	10 24 52 17	FILL 7.0 / 6.0	S-2: Very dense, gray-brown, fine to coarse SAND, little fine Gravel, trace Silt, several asphalt particles. wet. (FILL).	
S-3	8	6-8	6 3 2 3	FINE DEPOSITS	S-3: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-4	13	8-10	3 2 3 3	FINE DEPOSITS	S-4: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-5	21	10-12	3 2 2 2	FINE DEPOSITS	S-5: Soft, gray, Silty CLAY, trace fine Sand. wet.	
S-6	21	14-16	1 1 1 1	FINE DEPOSITS	S-6: Very soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Atterberg Limits - CL, MC = 39%, LL = 35, PL = 22, PI = 13, LI = 1.3].	
S-7	19	19-21	1 1 1 1	FINE DEPOSITS	S-7: Very soft, gray, Silty CLAY, trace fine Sand. wet.	
S-8	14	24-26	4 2	FINE DEPOSITS	S-8: Medium stiff, gray, Silty CLAY, little fine Sand. wet.	

NOTES:
1) Water introduced to borehole during drive and wash process.

Page No. 1 of 2

BORING LOG — WB-5 (Page No. 2 of 2)

Boring Location: N: 2790995, E: 773005; Date Start: September 15, 2017; Date Finish: September 25, 2017; Ground Surface Elev.: (+/-) 13. Groundwater: ▼ 09/25/17, 11:00, 11.5, 10, 36, 15 minutes.

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
(S-8 cont.)			3 4	FINE DEPOSITS -16.0 / 29.0		
S-9	9	29-31	6 4 5 7	COARSE DEPOSITS -20.0 / 33.0	S-9: Loose, gray, fine to coarse SAND, some fine Gravel, some Silt. wet.	
S-10	6	34-36	14 11 10 12	DECOMPOSED BEDROCK -23.0 / 36.0	Inferred strata change at approximately 33 feet below ground surface based on increased drilling resistance. S-10: Medium dense, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	
					Boring terminated at 36 feet.	2

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Page No. 2 of 2

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 11/5/21 15:25 - J:\89010.00 - MASSDOT STATEWIDE DESIGN & REVIEW - GPI 77864\89010.06 - MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\EXPLORATIONS\BORING LOGS\GINT

Plotted on 26-Aug-2022 5:39 PM
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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	7	185
	PROJECT FILE NO.	606024	

BORING LOGS

BORING LOG – WB-6 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-6
Boring Location: N: 2791007, E: 773101
Checked by: K. Jelinek
Date Start: September 25, 2017
Date Finish: September 25, 2017
Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/25/17	13:45	9.3	9	36	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 11.5 / 0.5	6 inches of Asphalt.	
				CONCRETE 10.1 / 1.9	Drilling resistance observed between approximately 0.5 feet and 1.9 feet below ground surface. 16 inches of Concrete sub-base.	
S-1	12	2-4	9, 11, 12, 14	FILL	S-1: Medium dense, light brown, fine to coarse SAND and fine Gravel, trace Silt. wet. (FILL).	1
S-2	10	4-6	8, 7, 4, 5	6.0 / 6.0	S-2: Medium dense, gray-brown, fine to medium SAND and Silt, trace fine Gravel. moist. (FILL). [Laboratory Test Performed: Particle Size Analysis (Sieve Only) - Gravel = 1.7%, Sand = 53.7%, Silt & Clay = 44.6%].	
S-3	3	6-8	3, 2, 2, 3	ALLUVIUM 4.0 / 8.0	S-3: Very loose, brown, fine to coarse GRAVEL, some fine to coarse Sand, little Silt. wet.	
S-4	16	9-11	1, 4, 4, 4	FINE DEPOSITS	S-4: Medium stiff, gray, Silty CLAY, little fine Sand. wet.	
S-5	9	14-16	WOR, 1, 1, 1		S-5: Very soft, gray, Silty CLAY, trace fine Sand. wet.	
S-6	21	19-21	1, WOR, 1, 1		S-6: Very soft, gray, Silty CLAY, trace fine Sand. wet.	
S-7	24	24-26	1, 2		S-7: Soft, gray, Silty CLAY, trace fine Sand. wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-6 (Page No. 2 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-6
Boring Location: N: 2791007, E: 773101
Checked by: K. Jelinek
Date Start: September 25, 2017
Date Finish: September 25, 2017
Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/25/17	13:45	9.3	9	36	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
			2, 2	FINE DEPOSITS -17.0 / 29.0		
S-8	10	29-31	4, 5, 7, 5	COARSE DEPOSITS -20.0 / 32.0	S-8: Medium dense, gray, fine to coarse SAND, some Silt, some fine Gravel. wet.	
					Inferred strata change at approximately 32 feet below ground surface based on increased drilling resistance.	
S-9	6	34-36	12, 12, 11, 13	DECOMPOSED BEDROCK -24.0 / 36.0	S-9: Medium dense, gray, DECOMPOSED BEDROCK particles and fragments. Wet. (DECOMPOSED BEDROCK).	
					Boring terminated at 36 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-7 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-7
Boring Location: N: 2791019, E: 773236
Checked by: K. Jelinek
Date Start: September 28, 2017
Date Finish: September 28, 2017
Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/28/17	12:50	5.6	9	31	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.2 / 0.8	9 inches of Asphalt.	
				CONCRETE 9.8 / 1.2	Heavy drilling resistance observed between approximately 0.8 feet and 1.2 feet below ground surface. 5" of Concrete sub-base.	
S-1	10	2-4	3, 13, 14, 17	FILL	S-1: Medium dense, light brown, fine to coarse SAND, trace Silt, very few asphalt particles. moist. (FILL).	1
S-2	0	4-6	10, 6, 4, 4	5.0 / 6.0	S-2: Loose, light brown, fine to coarse SAND, trace Silt. wet. (FILL). No recovery upon advancing 1-3/8-inch split-spoon sampler. A 3-inch split-spoon subsequently advanced to obtain sample.	
S-3	2	6-8	3, 1, 1, 2	ALLUVIUM 2.0 / 9.0	S-3: Very loose, light brown, fine to coarse SAND, some fine Gravel, trace Silt. wet.	
S-4	19	9-11	1, 2, 1, 2	FINE DEPOSITS	S-4: Soft, gray, Silty CLAY, trace fine Sand. wet.	
S-5	18	14-16	1, 1, 2, 1		S-5: Soft, gray, Silty CLAY, trace fine Sand. wet. [Laboratory Test Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 1.2 %, Silt & Clay = 98.8%].	
S-6	17	19-21	WOR, 2, 4, 4	-13.0 / 24.0	S-6: Medium stiff, gray, Silty CLAY, trace fine Sand. wet.	
S-7	14	24-26	5, 7	DECOMPOSED BEDROCK	S-7: Medium dense, gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-7 (Page No. 2 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-7
Boring Location: N: 2791019, E: 773236
Checked by: K. Jelinek
Date Start: September 28, 2017
Date Finish: September 28, 2017
Contractor: Northern Drill Service, Inc.
Driller: Z. Nader
Nobis Rep.: P. Clarke
Rig Type / Model: Truck / B-57 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 09/28/17	12:50	5.6	9	31	15 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
			10, 9	DECOMPOSED BEDROCK		
S-8	6	29-31	7, 9, 21, 28	-20.0 / 31.0	S-8: Dense, gray, DECOMPOSED BEDROCK particles and fragments. wet. (DECOMPOSED BEDROCK).	
					Boring terminated at 31 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-11 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-11
Boring Location: N: 2790816, E: 772493
Checked by: S. Kurtzer
Date Start: December 9, 2020
Date Finish: December 9, 2020
Contractor: Northern Drill Service, Inc.
Driller: T. Tucker
Nobis Rep.: K. Stanway
Rig Type / Model: Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/09/20	14:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
					ASPHALT 11.8 / 0.7	8 inches of Asphalt.	1
S-1	9	2-4	14, 23, 9, 6		FILL	S-1A (8"): Dense, light brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt, Few concrete particles and fragments. Moist. (FILL). S-1B (1"): Dense, dark brown, fine to medium SAND, some Silt, little fine to coarse Gravel. Moist. (FILL).	
S-2	12	4-6	2, 6, 9, 3		7.5 / 5.0; ALLUVIUM 6.5 / 6.0	S-2A (6"): Medium dense, gray, fine SAND & SILT, little fine Gravel. Wet. (FILL). S-2B (6"): Medium dense, brown with orange staining, fine to coarse SAND, little fine Gravel, trace Silt. Wet.	
S-3	13	6-8	3, 6, 7, 7		FINE DEPOSITS	S-3: Stiff, tan-gray with banded orange staining, CLAY & SILT, trace Silt. Wet.	
S-4	10	8-10	2, 4, 4, 5			S-4: Medium stiff, tan-gray, CLAY & SILT, trace fine Gravel. Wet.	
S-5	11	10-12	5, 5, 4, 4			S-5: Medium stiff, tan-gray, CLAY & SILT, trace fine Gravel. Wet.	
S-6	18	14-16	2, 2, 2, 2			S-6: Soft, gray, CLAY & SILT. Wet.	
S-7	16	19-21	1, 1, 2, 6			S-7: Soft, gray, CLAY & SILT. Wet.	
S-8	14	24-26	3, 2			S-8: Medium stiff, gray, CLAY & SILT. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-11 (Page No. 2 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-11
Boring Location: N: 2790816, E: 772493
Checked by: S. Kurtzer
Date Start: December 9, 2020
Date Finish: December 9, 2020
Contractor: Northern Drill Service, Inc.
Driller: T. Tucker
Nobis Rep.: K. Stanway
Rig Type / Model: Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/09/20	14:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
			4, 3		FINE DEPOSITS -15.0 / 27.5		
					COARSE DEPOSITS -16.5 / 29.0	Stratum change inferred from increased drilling resistance..	
S-9		29-31	16, 14, 7, 15		DECOMPOSED BEDROCK -18.5 / 31.0	S-9: Medium dense, gray, DECOMPOSED BEDROCK particles and fragments. Wet. (DECOMPOSED BEDROCK).	
					BEDROCK	Bedrock surface inferred from increase in drilling resistance.	
C-1	57	34-39		95/82		C-1: Hard, fresh, slightly fractured, dark gray to blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, slightly weathered, shallow joints.	
C-2	60	39-44		100/82		C-2: Hard, fresh, slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, slightly weathered, shallow joints.	
C-3	63	44-49		105/97	-36.5 / 49.0	C-3: Hard, fresh, slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, slightly weathered, shallow joints.	
						Boring terminated at 49 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

606024_HD_(KEY).DWG Plotted on 26-Aug-2022 5:39 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	8	185
PROJECT FILE NO.	606024		

BORING LOGS

Plotted on 26-Aug-2022 5:39 PM
606024_HD_(KEY).DWG

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 11/9/21 15:25 - J:\89010.00 - MASSDOT STATEWIDE DESIGN & REVIEW - GPI 77864\89010.06 - MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\EXPLORATIONS\BORING LOGS\GINT

nobis

BORING LOG

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: WB-12
Boring Location: N: 2790900, E: 772640
Checked by: S. Kurtzer
Date Start: December 10, 2020
Date Finish: December 16, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 14
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations					
Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 12/16/20	09:53	9	31	40.5	5.5 days

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
					ASPHALT 13.5 / 0.5	6 inches of Asphalt.	1
					CONCRETE 13.0 / 1.0	6 inches of Concrete.	
S-1	6	2-4	16, 8, 3, 3		FILL	S-1: Medium dense, gray-tan, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet. (FILL).	
S-2	0	4-6	4, 2, 12, 42		FILL	S-2: No recovery.	
S-3	10	6-8	8, 10, 11, 15		FILL	S-3A (4"): Medium dense, brown, fine to coarse SAND and fine to coarse Gravel, little Silt. Wet. (FILL). S-3B (6"): Medium dense, gray and orange, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet. (FILL).	
S-4	14	8-10	23, 24, 28, 44		FILL	S-4: Very dense, gray-brown, fine to coarse GRAVEL and fine to coarse Sand, trace Silt. Wet. (FILL).	
S-5	4	10-10.7	57, 60/2"		FILL	S-5: Very dense, gray-brown with orange staining, fine to coarse GRAVEL and fine to coarse Sand, little Silt. Wet. (FILL).	
					FILL 0.0 / 14.0	Increase in drilling resistance from 11.5 to 14 feet on possible boulder(s).	
S-6	13	14-16	1, 2, 3, 2		FINE DEPOSITS	S-6: Medium stiff, gray, CLAY & SILT, trace fine Sand. Wet.	
S-7	18	19-21	3, 1, 2, 2		FINE DEPOSITS	S-7: Soft, gray, CLAY & SILT. Wet.	
S-8	14	24-26	3, 3, 2, 3		FINE DEPOSITS	S-8: Medium stiff, gray, CLAY & SILT.	
S-9	0	29-31	11, 13, 18, 17		FINE DEPOSITS -14.5 / 28.5; INFERRED COARSE DEPOSITS -17.5 / 31.5	Inferred strata transition based on observed increase in drilling resistances. S-9: No recovery.	
C-1	15	31.5-36.5		25/15	BEDROCK	C-1: Hard, very severely weathered, extremely fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Very close to close, very severely weathered, horizontal joints.	
C-2	45	36.5-40.5		94/40	BEDROCK	C-2: Hard, slightly weathered, extremely to moderately fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Very close to close, very severely weathered, horizontal to shallow primary joint set. Very close, vertical, slightly weathered, silt infilled, secondary joint set.	
C-3	56	40.5-45.5		93/73	BEDROCK	C-3: Hard, fresh, slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, slightly weathered, shallow primary joint set. Moderately close, slightly weathered, high angle secondary joint set.	
C-4	58	45.5-50.5		97/92	BEDROCK -36.5 / 50.5	C-4: Hard, fresh, sound, blue gray, fine-grained, SANDSTONE, Massively bedded. Moderately close, slightly weathered, shallow primary joint set. Very close, calcite infilled, partial fractures beginning at 47 feet bgs.	
						Boring terminated at 50.5 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

Page No. 1 of 3 / Page No. 2 of 3 / Page No. 3 of 3

nobis

BORING LOG

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: WB-13
Boring Location: N: 2790987, E: 772968
Checked by: S. Kurtzer
Date Start: December 22, 2020
Date Finish: December 22, 2020

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations					
Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/22/20	15:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
					ASPHALT 12.5 / 0.5	6 inches of Asphalt.	1
					CONCRETE 11.8 / 1.2	8 inches of Concrete.	
S-1	5	1-2	10, 11		FILL	S-1: Medium dense, brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Moist. (FILL).	
S-2	9	2-4	10, 13, 13, 11		FILL	S-2: Medium dense, gray brown, fine to coarse SAND, trace Silt. Wet. (FILL).	
S-3	8	4-6	7, 3, 3, 3		FILL 7.0 / 6.0	S-3A (3"): Loose, gray brown, fine to coarse SAND, little Silt, trace fine Gravel. Wet. (FILL). S-3B (5"): Loose, brown, fine to medium SAND, little Silt. Orange staining at bottom of sample. Wet. (FILL).	
S-4	8	6-8	4, 3, 5, 4		FINE DEPOSITS	S-4: Medium stiff, gray, CLAY & SILT, trace fine to medium Sand. Frequent bands of orange staining. Wet.	
S-5	18	9-11	2, 3, 5, 4		FINE DEPOSITS	S-5: Medium stiff, gray, CLAY & SILT. Frequent bands of orange staining. Varved. Wet.	
S-6	20	14-16	1, 2, 1, 2		FINE DEPOSITS	S-6: Soft, gray, CLAY & SILT. No recovery. Sample collected with 3-inch split spoon. Wet.	
S-7	18	19-21	1, 1, 3, 3		FINE DEPOSITS	S-7: Soft, gray, CLAY & SILT. Wet.	
S-8	10	24-26	3, 3, 3, 4		FINE DEPOSITS	S-8: Medium stiff, gray, CLAY & SILT. Wet.	
S-9	6	29-31	2, 8, 9, 11		FINE DEPOSITS -18.0 / 31.0	S-9: Stiff, gray, SILT & CLAY. Wet.	2
					INFERRED COARSE DEPOSITS -21.0 / 34.0		
S-10	4	34-36	24, 18, 20, 12		DECOMPOSED BEDROCK -23.0 / 36.0	S-10: Dense, gray, DECOMPOSED BEDROCK particles and fragments. Wet. (DECOMPOSED BEDROCK).	
C-1	51	36-41		85/42	BEDROCK	C-1: Hard, slightly weathered, extremely to slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Very close to close, slightly weathered, horizontal to low angle, primary joint set. Moderately close, slightly weathered, high angle, secondary joint set.	
C-2	60	41-46		100/58	BEDROCK	C-2: Hard, slightly weathered, extremely to slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Very close to close, slightly weathered, horizontal, primary fractures. Close to moderately close, slightly weathered, high angle, secondary joint set.	
C-3	60	46-51		100/58	BEDROCK -38.0 / 51.0	C-3: Hard, slightly weathered, extremely to slightly fractured, blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, slightly weathered, low angle, primary fractures. Very close, slightly weathered, high angle to vertical, partially fractured secondary joints from 46.5 to 49.5 feet bgs.	
						Boring terminated at 51 feet.	3

WELL DETAIL: Flush-mounted roadbox set in concrete (0 to 0.5'); 3-inch Schedule 40 PVC pipe set in cement-bentonite grout (0.5' to 30')

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.
2) Monitoring well consisting of 6-inch, flush-mounted roadbox and grouted 3-inch, Schedule 40 PVC installed in borehole to approximately 30 feet below existing grade.
3) Borehole backfilled with drilling spoils. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

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BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	9	185
PROJECT FILE NO.	606024		

BORING LOGS

606024_HD_(KEY).DWG Plotted on 26-Aug-2022 5:39 PM

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 11/9/21 15:25 - J:\89010.00 - MASSDOT STATEWIDE DESIGN & REVIEW - GPI 77864\89010.06 - MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\EXPLORATIONS\BORING LOGS\GINT

BORING LOG – WB-14 (Page No. 1 of 3)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-14
Boring Location: N: 2791007, E: 773128
Checked by: S. Kurtzer
Date Start: December 28, 2020
Date Finish: December 31, 2020
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky / J. Stevens
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25 + Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/31/20	12:30	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
					ASPHALT 11.5 / 0.5	6 inches of Asphalt.	1
					CONCRETE 10.8 / 1.2	8 inches of Concrete.	
S-1	0	1-3	4, 4		FILL	S-1: No recovery.	
S-2	6	2-4	5, 8, 10, 10		FILL	S-2: Medium dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. Orange staining at bottom of sample. Wet. (FILL).	
S-3	9	4-6	10, 10, 7, 8		FILL 6.0 / 6.0	S-3A (5"): Medium dense, orangish brown, fine to coarse SAND, little fine Gravel, trace Silt. Orange staining at bottom of sample. Wet. (FILL). S-3B (4"): Medium dense, gray to tan, fine to medium SAND, some Silt, trace fine Gravel. Orange staining at bottom of sample. Wet. (FILL).	
S-4	7	6-8	8, 5, 6, 3		ALLUVIUM 4.0 / 8.0	S-4A (4"): Medium dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. Wet. S-4B (3"): Medium dense, gray, fine to medium SAND, little Silt. Wet.	
S-5	15	8-10	5, 4, 5, 5		FINE DEPOSITS	S-5: Stiff, gray, CLAY & SILT, very few fine roots at top of sample. Frequent orange stained silt seams. Varved. Wet.	
S-6	21	14-16	1, 2, 1, 4		FINE DEPOSITS	S-6: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-7		19-21	1, 2, 1, 3		FINE DEPOSITS	S-7: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-8	17	24-26	3, 2		FINE DEPOSITS	S-8: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	

Well Detail: Flush-mounted roadbox set in concrete (0 to 0.5'). 3-inch Schedule 40 PVC pipe set in cement-bentonite grout (0.5' to 30').

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-14 (Page No. 2 of 3)

nobis
Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-14
Boring Location: N: 2791007, E: 773128
Checked by: S. Kurtzer
Date Start: December 28, 2020
Date Finish: December 31, 2020
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky / J. Stevens
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25 + Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12
Datum: NAVD 88
Drilling Method: Casing, 4, Drive and Wash; Sampler: Split-Spoon, 1-3/8, 140-lb Hammer
Groundwater Observations: 12/31/20, 12:30, Not Measured

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
(S-8 cont.)			3, 4		FINE DEPOSITS -17.0 / 29.0		
S-9	4	29-31	2, 5, 5, 6		COARSE DEPOSITS -22.0 / 34.0	S-9: Medium dense, gray, fine to coarse SAND and fine to coarse Gravel, some Silt. Wet.	2
S-10	4	34-36	18, 35, 42, 60		DECOMPOSED BEDROCK -24.0 / 36.0	S-10: Very dense, gray, DECOMPOSED BEDROCK particles and fragments. Pulverized rock in split spoon sample. Wet.	
					BEDROCK	Bedrock surface inferred from increase in drilling resistance.	
C-1	57	39-44		95/47	BEDROCK	C-1: Hard, slightly weathered, extremely to moderately fractured, dark gray, very fine-grained, SHALE, Massively bedded. Very close to close, shallow to moderately dipping, slightly weathered, primary joint set.	
C-2	53	44-49		88/65	BEDROCK	C-2: Hard, slightly weathered, slightly to moderately fractured, dark gray, very fine-grained, SHALE, Massively bedded. Very close to moderately close, moderately dipping to shallow, slightly to severely weathered, primary joint set.	
C-3	60	49-54		100/53	BEDROCK	C-3: Hard, slightly to moderately weathered, slightly to extremely fractured, dark gray, very fine-grained, SHALE, Massively	

Soil / Percentage / Non-Soil: trace 5 - 10 very few; little 10 - 20 few; some 20 - 35 several; and 35 - 50 numerous

NOTES:
2) Monitoring well consisting of 6-inch, flush-mounted roadbox and grouted 3-inch, Schedule 40 PVC installed in borehole to approximately 30 feet below existing grade.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-14 (Page No. 3 of 3)

nobis
Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-14
Boring Location: N: 2791007, E: 773128
Checked by: S. Kurtzer
Date Start: December 28, 2020
Date Finish: December 31, 2020
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky / J. Stevens
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25 + Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 12
Datum: NAVD 88
Drilling Method: Casing, 4, Drive and Wash; Sampler: Split-Spoon, 1-3/8, 140-lb Hammer
Groundwater Observations: 12/31/20, 12:30, Not Measured

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
(C-3 cont.)					BEDROCK -42.0 / 54.0	bedded. Close, moderately dipping, slightly weathered to severely weathered, primary joint set. Friable and flaky from 53 to 53.5 feet bgs..	
						Boring terminated at 54 feet.	3

Soil / Percentage / Non-Soil: trace 5 - 10 very few; little 10 - 20 few; some 20 - 35 several; and 35 - 50 numerous

NOTES:
3) Borehole backfilled with drilling spoils. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-15 (Page No. 1 of 3)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-15
Boring Location: N: 2791023, E: 773290
Checked by: S. Kurtzer
Date Start: January 4, 2021
Date Finish: January 5, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
01/04/21	14:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
					ASPHALT 11.0 / 0.5	6 inches of Asphalt.	1
					CONCRETE 10.3 / 1.2	8 inches of Concrete.	
S-1	2	2-4	5, 8, 7, 8		FILL	S-1: Medium dense, dark brown, fine to coarse SAND, little Silt. Wet. (FILL).	
S-2	0	4-6	6, 4, 3, 2		FILL 5.5 / 6.0	S-2: No recovery.	
S-3	5	6-8	4, 7, 3, 2		ALLUVIUM 3.5 / 8.0	S-3: Medium dense, brown, fine to coarse SAND, little fine Gravel, little Silt. Wet.	
S-4	10	8-10	3, 3, 4, 5		FINE DEPOSITS	S-4: Medium stiff, gray, CLAY & SILT, trace fine Sand. Bands of orange staining. Varved. Wet. [Laboratory Tests Performed: Moisture Content of Soil and Rock - MC = 29.5%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 2.5%, Silt & Clay = 97.5%; Atterberg Limits - LL = 32, PL = 22, PI = 10, LI = 0.8].	
S-5	1	10-12	5, 5, 4, 3		FINE DEPOSITS	S-5: Stiff, gray, CLAY & SILT. Wet.	
S-6	4	14-16	1, 1, 2, 2		FINE DEPOSITS	S-6: Soft, gray, CLAY & SILT. Wet.	
S-7	0	19-21	2, 2, 2, 2		FINE DEPOSITS	S-7: No recovery.	
S-8	13	24-26	2, 5		FINE DEPOSITS	S-8: Medium stiff, tan gray, SILT & CLAY, trace fine Sand. Wet. [Laboratory Tests Performed: Moisture Content of Soil	

Well Detail: Flush-mounted roadbox set in concrete (0 to 0.5'). 3-inch Schedule 40 PVC pipe set in cement-bentonite grout (0.5' to 30').

Soil / Percentage / Non-Soil: trace 5 - 10 very few; little 10 - 20 few; some 20 - 35 several; and 35 - 50 numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-15 (Page No. 2 of 3)

nobis
Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-15
Boring Location: N: 2791023, E: 773290
Checked by: S. Kurtzer
Date Start: January 4, 2021
Date Finish: January 5, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11.5
Datum: NAVD 88
Drilling Method: Casing, 4, Drive and Wash; Sampler: Split-Spoon, 1-3/8, 140-lb Hammer
Groundwater Observations: 01/04/21, 14:00, Not Measured

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
(S-8 cont.)			3, 4		FINE DEPOSITS -16.5 / 28.0	and Rock - MC = 31.8%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 0.7%, Silt & Clay = 99.3%; Atterberg Limits - LL = 29, PL = 23, PI = 6, LI = 1.5].	
					COARSE DEPOSITS	Stratum change inferred from increased drilling resistance.	
S-9	11	29-31	12, 18, 13, 10		COARSE DEPOSITS	S-9: Dense, brown gray, fine to coarse SAND, some Silt, little fine Gravel. Wet.	2
S-10	10	34-36	18, 15, 12, 12		COARSE DEPOSITS -27.5 / 39.0	S-10: Medium dense, tan gray, fine to coarse GRAVEL and fine to coarse Sand, little Silt. Wet. [Laboratory Tests Performed: pH of Soil - pH in Distilled Water = 6.5, pH in Calcium Chloride = 6.0; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 41.8%, Sand = 39.6%, Silt & Clay = 18.6%; Chloride = 11 ppm, Sulfates (Soluble) < 10 ppm].	
S-11	0	39-39.1	60/1"		BEDROCK	S-11: No recovery.	
C-1	58	40-45		97/58	BEDROCK	C-1: Hard, fresh, moderately fractured to sound, dark gray to blue gray, very fine-grained to fine-grained, SHALE TO SANDSTONE, Massively bedded. Close to moderately close, horizontal to shallow, slightly weathered primary joint set. Very close, steep to vertical, slightly weathered fractures from 40 to 42.5 feet bgs. [Laboratory Test Performed: Bulk Density and Compressive Strength of Rock - Bulk Density = 168 pcf, Compressive Strength = 9145 psi].	
C-2	60	45-50		100/95	BEDROCK	C-2: Hard, fresh, sound, blue gray, fine-grained, SANDSTONE, Massively bedded. Close to moderately close, moderately dipping to shallow, slightly weathered primary joint set.	

Soil / Percentage / Non-Soil: trace 5 - 10 very few; little 10 - 20 few; some 20 - 35 several; and 35 - 50 numerous

NOTES:
2) Monitoring well consisting of 6-inch, flush-mounted roadbox and grouted 3-inch, Schedule 40 PVC installed in borehole to approximately 30 feet below existing grade.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG – WB-15 (Page No. 3 of 3)

nobis
Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-15
Boring Location: N: 2791023, E: 773290
Checked by: S. Kurtzer
Date Start: January 4, 2021
Date Finish: January 5, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11.5
Datum: NAVD 88
Drilling Method: Casing, 4, Drive and Wash; Sampler: Split-Spoon, 1-3/8, 140-lb Hammer
Groundwater Observations: 01/04/21, 14:00, Not Measured

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
C-3	60	50-55		100/95	BEDROCK -43.5 / 55.0	C-3: Hard, fresh, sound, blue gray, fine-grained to medium-grained, SANDSTONE, Massively bedded. Moderately close, shallow to horizontal, slightly weathered primary joint set.	
						Boring terminated at 55 feet.	3

Soil / Percentage / Non-Soil: trace 5 - 10 very few; little 10 - 20 few; some 20 - 35 several; and 35 - 50 numerous

NOTES:
3) Borehole backfilled with drilling spoils. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	10	185
PROJECT FILE NO.	606024		

BORING LOGS

Plotted on 26-Aug-2022 5:39 PM
606024_HD_(KEY).DWG

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 11/9/21 15:25 - J:\89010.00 - MASSDOT STATEWIDE DESIGN & REVIEW - GPI 77864\89010.06 - MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\EXPLORATIONS\BORING LOGS\GINT

BORING LOG — WB-16 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-16
Boring Location: N: 2790961, E: 773066
Checked by: K. Jelinek
Date Start: July 8, 2021
Date Finish: July 8, 2021
Contractor: New England Boring Contractors
Driller: S. Cooley
Nobis Rep.: P. Clarke
Rig Type / Model: Barge / CME 45
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) -5.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4 / 3	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
07/08/21	14:00	-9	25	36	5 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Drilling Rate (min/ft)	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
S-1	1	0-2	3, 1, 3, 3			FINE DEPOSITS	S-1: Soft, gray, coarse GRAVEL, trace Clayey Silt. Wet. Tip of split-spoon sampler plugged with coarse gravel resulting in low sample recovery.	1
S-2	17	2-4	1, 1, 1, 2			FINE DEPOSITS	S-2: Very soft, gray, SILT & CLAY, trace fine Sand. Numerous clumps of varying fines content. Wet.	
S-3	22	4-6	1, 2, 2, 2				S-3: Soft, gray, SILT & CLAY, trace fine Sand. Numerous clumps of varying fines content. Wet. [Laboratory Tests Performed: Moisture Content of Soil and Rock - MC = 45.4%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 1.7%, Silt & Clay = 98.3%; Atterberg Limits - LL = 29, PL = 23, PI = 6, LI = 3.7]. Shelby tube sample, ST-1, attempted between approximately 4 feet and 6 feet below existing grade (no recovery).	
S-4	13	9-11	3, 2, 4, 3			FINE DEPOSITS -17.5 / 12.0	S-4: Medium stiff, gray, Clayey SILT, trace fine Sand. Numerous clumps of varying fines content. Wet. [Laboratory Tests Performed: Moisture Content of Soil and Rock - MC = 31.8%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 0.7%, Silt & Clay = 99.3%].	
						COARSE DEPOSITS	Inferred strata change at approximately 12 feet below ground surface based on increased drilling resistance.	
S-5	16	14-16	15, 7, 6, 7			-24.5 / 19.0	S-5: Medium dense, gray, fine to coarse SAND, and Clayey Silt. Clumps of varying fines content. Wet. No recovery upon advancing 1-3/8-inch split-spoon sampler. A 3-inch split-spoon subsequently advanced to obtain sample.	
S-6	12	19-21	9, 4, 3, 4			DECOMPOSED BEDROCK -28.3 / 22.8	S-6: Loose, gray, DECOMPOSED BEDROCK particles and fragments. Wet. (DECOMPOSED BEDROCK). [Laboratory Tests Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 41.5%, Sand = 41.1%, Silt & Clay = 17.4%].	
C-1	6	23.5-25		33/0	4.5, 2	BEDROCK	C-1: Hard, very slightly weathered, extremely to moderately fractured, gray, very fine-grained, SHALE, very close to close, horizontal to shallow joints.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Test boring performed from barge within Taunton River. Reference points maintained at barge deck-level to account for tidal influences.
2) At time of boring completion, water level within Taunton River measured approximately 2 feet below barge deck.
3) At time of boring completion, Taunton River streambed measured approximately 11 feet below barge deck.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-16 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-16
Boring Location: N: 2790961, E: 773066
Checked by: K. Jelinek
Date Start: July 8, 2021
Date Finish: July 8, 2021
Contractor: New England Boring Contractors
Driller: S. Cooley
Nobis Rep.: P. Clarke
Rig Type / Model: Barge / CME 45
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) -5.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4 / 3	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
07/08/21	14:00	-9	25	36	5 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Drilling Rate (min/ft)	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
C-2	50	25-30		83/48	3.3, 2.7, 2.5, 3.2, 3.2	BEDROCK	C-2: Hard, moderately to very slightly weathered, extremely fractured to sound, gray, very fine-grained, SHALE, very close to close, horizontal to moderately-dipping joints. [Laboratory Test Performed: Bulk Density and Compressive Strength of Rock - Bulk Density = 155 pcf, Compressive Strength = 1048 psi].	
C-3	2	30-31		17/0	5		C-3: Hard, very slightly weathered, moderately fractured, gray, very fine-grained, SHALE, very close, shallow joints.	
C-4	50	31-36		83/60	2.5, 3.3, 2.7, 3, 3.5	-41.5 / 36.0	C-4: Hard, slightly weathered to fresh, extremely fractured to sound, dark gray, very fine-grained, SHALE, very close to moderately close, horizontal to shallow joints.	
							Boring terminated at 36 feet.	4

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
4) Borehole backfilled with drilling spoils.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-17 (Page No. 1 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-17
Boring Location: N: 2790980, E: 773218
Checked by: K. Jelinek
Date Start: July 12, 2021
Date Finish: July 12, 2021
Contractor: New England Boring Contractors
Driller: S. Cooley
Nobis Rep.: P. Clarke
Rig Type / Model: Barge / CME 45
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) -5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
07/08/21	11:00	-10.8	22	32	5 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Drilling Rate (min/ft)	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
S-1	20	0-2	1, 3, 2, 2			FINE DEPOSITS	S-1: Medium stiff, gray, CLAY & SILT, trace fine Sand. Numerous clumps of varying fines content. Wet. [Laboratory Tests Performed: Moisture Content of Soil and Rock - MC = 37.0%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 2.0%, Silt & Clay = 98.0%; Atterberg Limits - LL = 36, PL = 22, PI = 14, LI = 1.1].	1
ST-1	24	2-4					ST-1: Gray, CLAY & SILT, trace fine Sand. [Laboratory Tests Performed: Moisture Content of Soil and Rock - MC = 35.7%; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 0.0%, Sand = 0.2%, Silt & Clay = 99.8%; Atterberg Limits - LL = 30, PL = 22, PI = 8, LI = 1.7].	
S-2	21	4-6	1, 1, 3, 3			FINE DEPOSITS	S-2: Soft, gray, SILT & CLAY, trace fine Sand. Numerous clumps of varying fines content. Wet.	
S-3	3	8-10	1, 2, 3, 3			FINE DEPOSITS -15.0 / 10.0	S-3: Medium stiff, gray, coarse GRAVEL, little Clayey Silt, trace fine Sand. Wet. Tip of split-spoon sampler plugged with coarse gravel resulting in low sample recovery.	
ST-2	0	10-10				COARSE DEPOSITS	ST-2: Shelby tube sample, ST-2, attempted between approximately 10 feet and 12 feet below existing grade. In-situ sampling unable to be performed (advanced) due to transition to denser, granular soil.	
S-4	16	11-13	4, 1, 1, 1				S-4: Very loose, gray, fine to coarse SAND, some Clayey Silt, little fine Gravel. Wet. [Laboratory Test Performed: Particle Size Analysis (Sieve & Hydrometer) - Gravel = 16.7%, Sand = 54.6%, Silt & Clay = 28.7%].	
S-5	9	13-15	2, WOH, 1, 2			COARSE DEPOSITS -22.0 / 17.0	S-5: Very loose, gray, fine to coarse GRAVEL and fine to coarse Sand, little Silt. Wet. [Laboratory Tests Performed: pH of Soil - pH in Distilled Water = 6.0, pH in Calcium Chloride = 5.5; Particle Size Analysis (Sieve & Hydrometer) - Gravel = 51.4%, Sand = 36.5%, Silt & Clay = 12.1%; Chloride = 11 ppm, Sulfates (Soluble) < 10 ppm].	
						DECOMPOSED BEDROCK	Inferred strata change at approximately 17 feet below ground surface based on increased drilling resistance.	
S-6	10	18-20	6, 11, 22, 11				S-6: Dense, gray, DECOMPOSED BEDROCK particles and fragments Wet. (DECOMPOSED BEDROCK).	
						INFERRED WEATHERED BEDROCK -27.0 / 22.0	Inferred strata change at approximately 20 feet below ground surface based on increased drilling resistance.	
C-1	58	22-27		97/53	2, 2.5, 1.5	BEDROCK	C-1: Hard, fresh, extremely fractured to sound, gray, fine-grained to very fine-grained, GRAYWACKE WITH SANDSTONE BEDDING, very close to close, shallow to moderately-dipping. [Laboratory Test Performed: Bulk Density and Compressive Strength of Rock - Bulk Density = 164 pcf, Compressive Strength = 6071 psi].	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Test boring performed from barge within Taunton River. Reference points maintained at barge deck-level to account for tidal influences.
2) At time of boring completion, water level within Taunton River measured approximately 2 feet below barge deck.
3) At time of boring completion, Taunton River streambed measured approximately 12.8 feet below barge deck.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-17 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-17
Boring Location: N: 2790980, E: 773218
Checked by: K. Jelinek
Date Start: July 12, 2021
Date Finish: July 12, 2021
Contractor: New England Boring Contractors
Driller: S. Cooley
Nobis Rep.: P. Clarke
Rig Type / Model: Barge / CME 45
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) -5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
07/08/21	11:00	-10.8	22	32	5 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	REC % / RQD %	Drilling Rate (min/ft)	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
C-2	60	27-32		100/70	1.5, 1.5, 1.8, 3.8, 1.5, 3, 2.8	BEDROCK -37.0 / 32.0	C-2: Hard, moderately to very slightly weathered, extremely fractured to sound, gray, fine-grained, GRAYWACKE WITH SANDSTONE BEDDING, very close to moderately close, horizontal to shallow joints.	
							Boring terminated at 32 feet.	4

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
4) Borehole backfilled with drilling spoils.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-18 (Page No. 1 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-18
Boring Location: N: 2790431, E: 771732
Checked by: S. Kurtzer
Date Start: December 7, 2020
Date Finish: December 7, 2020
Contractor: Northern Drill Service, Inc.
Driller: T. Tucker
Nobis Rep.: K. Stanway
Rig Type / Model: Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/07/20	13:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.5 / 0.5	6 inches of Asphalt.	1
S-1	3	0.5-2	18, 21, 18	FILL	S-1: Dense, brown, fine to coarse SAND, trace fine Gravel, trace Silt. Wet. (FILL).	
S-2	3	2-4	-, 7, 8, -	7.0 / 4.0	S-2: Medium dense, dark brown, fine to coarse SAND, some Silt. Wet. (FILL).	
S-3	9	4-6	3, 5, 3, 5	ALLUVIUM	S-3: Loose, tan and gray, fine to medium SAND, little fine Gravel, little Silt. Wet.	
S-4	18	6-8	12, 9, 8, 8		S-4: Medium dense, tan, fine to medium SAND, little Silt. Slight orange staining at bottom of sample Wet.	
S-5	0	8-10	8, 10, 7, 6	1.0 / 10.0	S-5: No recovery.	
S-6	24	10-12	8, 10, 7, 6	FINE DEPOSITS	S-6: Stiff, tan and gray, CLAY & SILT. Orange mottling. Wet.	
S-7	0	14-16	3, 3, 3, 3		S-7: Medium stiff, gray, Silty CLAY. No recovery upon advancing 1-3/8-inch split-spoon sampler. A 3-inch split-spoon subsequently advanced to obtain sample Wet.	
S-8	17	19-21	1, 2, 1, 1	-12.0 / 23.0	S-8: Soft, gray, CLAY. Wet.	
				COARSE DEPOSITS	Stratum change inferred from increased drilling resistance.	
S-9	11	24-26	17, 15		S-9: Dense, gray, fine to coarse GRAVEL, some fine to coarse Sand, little Silt. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-18 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-18
Boring Location: N: 2790431, E: 771732
Checked by: S. Kurtzer
Date Start: December 7, 2020
Date Finish: December 7, 2020
Contractor: Northern Drill Service, Inc.
Driller: T. Tucker
Nobis Rep.: K. Stanway
Rig Type / Model: Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/07/20	13:00	Not Measured			

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
(S-9 cont.)			17, 8	COARSE DEPOSITS		
S-10	15	29-31	18, 32, 25, 29	-22.0 / 33.0	S-10: Very dense, gray, fine to coarse GRAVEL and fine to coarse Sand, little Silt. Wet.	
S-11	0	33-33	100/0"		S-11: No penetration. No recovery. Boring terminated at 33 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	11	185
	PROJECT FILE NO.	606024	

BORING LOGS

BORING LOG — WB-19 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-19
Boring Location: N: 2790456, E: 771800
Checked by: S. Kurtzer
Date Start: December 8, 2020
Date Finish: December 8, 2020
Contractor: Northern Drill Service, Inc.
Driller: T. Tucker
Nobis Rep.: K. Stanway
Rig Type / Model: Truck / B-59 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 11
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/08/20	13:31	7.1	28	33	35 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 10.5 / 0.5	6 inches of Asphalt.	1
S-1	12	0.5-2	10, 9, 10	FILL	S-1: Medium dense, light brown, fine to coarse SAND, trace Silt. Moist. (FILL).	
S-2	3	2-4	6, 7, 10, 6	FILL	S-2: Medium dense, tan, fine to coarse SAND, some Silt. Wet. (FILL).	
S-3	5	4-6	2, 3, 3, 9	FILL 5.0 / 6.0	S-3: Loose, tan, fine to coarse SAND, little Silt, little fine Gravel. Wet.	
S-4	18	6-8	12, 5, 6, 11	ALLUVIUM	S-4: Medium dense, tan, fine to coarse SAND, little Silt, little fine Gravel. Orange staining at bottom of sample. Wet.	
S-5	9	8-10	10, 9, 9, 6	ALLUVIUM 0.6 / 10.4	S-5: Medium dense, grayish tan with orange staining, fine to coarse SAND, trace Silt. Wet.	
S-6	12	10-12	5, 6, 5, 6	FINE DEPOSITS	S-6A (5"): Medium dense, grayish tan, fine to coarse SAND, trace Silt. Orange staining at bottom of sample. Wet. S-6B (7"): Stiff, gray, CLAY & SILT. Wet.	
S-7	13	14-16	3, 2, 2, 1	FINE DEPOSITS	S-7: Soft, gray, CLAY & SILT, trace fine Gravel. Wet.	
S-8	24	16-18	2, 2, 1, 1	FINE DEPOSITS	S-8: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-9	24	18-20	WOH, WOH, 1, 1	FINE DEPOSITS	S-9: Very soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-10	24	20-22	WOH, 1, 1, 1	FINE DEPOSITS	S-10: Very soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-11	20	22-24	1, 4, 3, 3	FINE DEPOSITS	S-11: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-12	17	24-26	3, 3	FINE DEPOSITS	S-12: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during pavement coring and drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG — WB-19 (Page No. 2 of 2)

(Header information as on page 1 of WB-19.)

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
12/08/20	13:31	7.1	28	33	35 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
(S-12 cont.)			2, 3	FINE DEPOSITS		
S-13	24	26-28	2, 4, 2, 2	FINE DEPOSITS	S-13: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-14	13	28-30	2, 1, 1, 1	FINE DEPOSITS -19.3 / 30.3	S-14: Very soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-15	7	30-32	7, 9, 8, 14	COARSE DEPOSITS	S-15A (3"): Very stiff, gray, CLAY & SILT. Frequent silt seams. Wet. S-15B (4"): Medium dense, gray, fine to coarse SAND and fine to coarse Gravel, little Silt. Wet.	
S-16	8	32-33	10, 50	COARSE DEPOSITS -23.5 / 34.5	S-16: Very dense, gray, fine to coarse SAND and fine to coarse Gravel, little Silt. Wet.	
					Boring terminated at 34.5 feet.	2

NOTES:
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

BORING LOG — WB-20 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-20
Boring Location: N: 2790542, E: 771804
Checked by: S. Kurtzer
Date Start: February 1, 2021
Date Finish: February 1, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV / Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/01/21	08:45	2	3	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 13.1 / 0.4	5 inches of Asphalt.	
S-1	14	0.5-2	35, 34, 26	FILL	S-1: Brown, fine to coarse SAND, trace Silt, very few to few brick particles. Moist. (FILL).	
S-2	16	2-4	15, 11, 9, 9	FILL	S-2: Medium dense, brown, fine to coarse SAND, trace fine Gravel, trace Silt, very few brick particles. Slight orange staining at 3 feet bgs Moist. (FILL).	
S-3	11	4-6	4, 3, 2, 3	FILL 9.0 / 4.5; ALLUVIUM	S-3A (4"): Loose, brown, fine to medium SAND, some Silt, very few brick particles. Slight orange staining at 4 feet bgs. Wet. (FILL). S-3B (2"): Loose, gray, fine to coarse SAND, little Silt. Numerous black particles. Wet. (FILL). S-3C (5"): Loose, light brown, fine to medium SAND and Silt. Wet.	1
S-4	15	6-8	3, 5, 9, 7	ALLUVIUM	S-4: Medium dense, light gray, fine to coarse SAND & SILT, trace fine Gravel, trace Wood. Dark orange staining throughout sample. Wet.	
S-5	15	8-10	8, 11, 11, 10	ALLUVIUM 1.5 / 12.0	S-5A (5"): Very loose, light gray, fine to medium SAND, some Silt. Orange staining throughout sample. Wet. S-5B (10"): Medium dense, light gray, fine to medium SAND, little Silt. Slight orange staining throughout sample. Wet.	
				FINE DEPOSITS	Inferred strata transition at approximately 12 feet below ground surface based on observed change in wash material.	
S-6	18	14-16	2, 2, 1, 2	FINE DEPOSITS	S-6: Soft, gray, CLAY & SILT. Wet.	
S-7	17	19-21	1, 2, 3, 4	FINE DEPOSITS -7.5 / 21.0	S-7: Loose, gray, CLAY & SILT. Wet.	
					Boring terminated at 21 feet.	2

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

BORING LOG — WB-21 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-21
Boring Location: N: 2790567, E: 771869
Checked by: S. Kurtzer
Date Start: February 1, 2021
Date Finish: February 1, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/01/21	10:00	2	3	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 12.6 / 0.4	5 inches of Asphalt.	
S-1	15	0.5-2	52, 52, 39	FILL	S-1: Very dense, brown, fine to coarse SAND, trace Silt, few brick particles, very few coal particles. Moist. (FILL).	
S-2	18	2-4	30, 23, 23, 20	FILL	S-2A (8"): Dense, brown, fine to coarse SAND, trace Silt, few brick particles, very few coal particles. Moist. (FILL). S-2B (3"): Dense, tan to gray, fine to medium SAND, trace Silt. Moist. (FILL). S-2C (7"): Dense, brown, fine to coarse SAND, trace Silt. Moist. (FILL).	
S-3	6	4-6	3, 2, 2, 2	FILL 6.7 / 6.3	S-3: Loose, dark brown, fine to medium SAND, some Silt. Orange staining at bottom of sample. Wet. (FILL).	1
S-4	7	6-8	3, 4, 7, 10	ALLUVIUM	S-4A (3"): Medium dense, brown, fine to coarse SAND, little Silt. Wet. (FILL). S-4B (4"): Medium dense, light gray, Clayey SILT, some fine Sand. Orange staining throughout sample. Dark orange staining at bottom of sample. Wet.	
S-5	12	8-10	8, 7, 5, 7	ALLUVIUM	S-5A (7"): Medium dense, black to grayish tan, fine to coarse SAND, trace Silt. Wet. S-5B (5"): Medium dense, tan, SILT. Wet.	
S-6	24	10-12	8, 8, 8, 8	ALLUVIUM 2.2 / 10.8; FINE DEPOSITS	S-6A (9"): Medium dense, tan, fine to coarse SAND, trace Silt. Wet. S-6B (15"): Very stiff, tan and gray, CLAY & SILT, little fine Sand. Varved. Slight orange staining. Wet.	
S-7	19	14-16	2, 2, 3, 4	FINE DEPOSITS	S-7: Medium stiff, gray, CLAY & SILT. Wet.	
S-8	17	19-21	1, 2, 2, 4	FINE DEPOSITS -8.0 / 21.0	S-8: Soft, gray, CLAY & SILT. Wet.	
					Boring terminated at 21 feet.	2

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

BORING LOG — WB-22 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-22
Boring Location: N: 2790604, E: 771953
Checked by: S. Kurtzer
Date Start: February 3, 2021
Date Finish: February 3, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/03/21	09:10	2.5	3	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 13.0 / 0.5		
S-1	13	0.5-2	45, 37, 18	FILL	S-1: Very dense, brown, fine to coarse SAND, little fine Gravel, little Silt, few brick particles. Wet. (FILL).	
S-2	11	2-4	11, 8, 7, 6	FILL 11.0 / 2.5; ALLUVIUM	S-2: Medium dense, light brown, fine to coarse SAND, little Silt. Moist. (FILL).	
S-3	14	4-6	2, 3, 7, 9	ALLUVIUM	S-3: Medium dense, tan, SILT, some fine Sand. Orange staining throughout sample. Wet.	1
S-4	16	6-8	10, 8, 9, 11	ALLUVIUM	S-4A (12"): Medium dense, grayish tan, fine to medium SAND, some Silt, trace fine Gravel. Slight orange staining throughout sample. Wet. S-4B (4"): Medium dense, gray, SILT, some fine Sand. Orange staining throughout sample. Wet.	
S-5	10	8-10	8, 6, 7, 9	ALLUVIUM	S-5A (5"): Medium dense, dark orange to tan, fine to coarse SAND, little Silt. Wet. S-5B (5"): Medium dense, gray, SILT, some fine Sand. Orange staining throughout sample. Wet.	
S-6	24	10-12	11, 12, 11, 12	ALLUVIUM 1.8 / 11.7; FINE DEPOSITS	S-6A (12"): Medium dense, grayish brown, fine to coarse SAND, little Silt. Wet. S-6B (8"): Medium dense, gray, SILT, some fine to coarse Sand. Orange staining throughout sample. Wet. S-6C (3"): Very stiff, gray, CLAY & SILT. Wet.	
S-7	19	14-16	1, 2, 3, 4	FINE DEPOSITS	S-7: Medium stiff, gray, CLAY & SILT. Wet.	
S-8	10	19-21	1, 2, 2, 4	FINE DEPOSITS -7.5 / 21.0	S-8: Soft, gray, CLAY & SILT. Wet.	
					Boring terminated at 21 feet.	2

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

BORING LOG — WB-23 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06
Boring No.: WB-23
Boring Location: N: 2790652, E: 772023
Checked by: S. Kurtzer
Date Start: February 3, 2021
Date Finish: February 3, 2021
Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 13
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/03/21	10:25	2.5	3	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
				ASPHALT 12.5 / 0.5		
S-1	9	0.5-2	18, 11, 8	FILL	S-1: Medium dense, brown, fine to coarse SAND, little fine Gravel, little Silt. Wet. (FILL).	
S-2	14	2-4	5, 4, 7, 16	FILL	S-2: Medium dense, grayish brown, fine to coarse SAND, little fine Gravel, trace Silt. Orange staining throughout sample. Wet. (FILL).	
S-3	13	4-6	18, 20, 14, 12	FILL	S-3: Dense, brownish gray, fine to coarse SAND, little fine Gravel, trace Silt, very few roots. Becomes more fine with depth. Slight organic odor. Orange staining. Wet. (FILL).	1
S-4	24	6-8	12, 9, 11, 17	FILL 6.1 / 6.9; ALLUVIUM	S-4A (11"): Medium dense, grayish brown, fine to coarse SAND, little fine Gravel, trace Silt. Wet. (FILL). S-4B (13"): Medium dense, gray, fine to medium SAND & SILT. Orange staining throughout sample. Wet.	
S-5	12	8-10	5, 4, 9, 11	ALLUVIUM	S-5: Stiff, orangish gray, CLAY & SILT. Wet.	
S-6	9	10-12	11, 7, 8, 8	ALLUVIUM 0.0 / 13.0	S-6: Medium dense, orangish tan, fine to coarse SAND, little fine Gravel, trace Silt. Wet.	
S-7	24	14-16	1, 1, 2, 2	FINE DEPOSITS	Inferred strata transition at approximately 13 feet below ground surface based on observed change in wash material. S-7: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-8	10	19-21	1, 1, 2, 1	FINE DEPOSITS -8.0 / 21.0	S-8: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
					Boring terminated at 21 feet.	2

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel. Pavement restored with compacted asphalt cold patch at ground surface.

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

Plotted on 26-Aug-2022 5:39 PM
606024_HD_(KEY).DWG

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	12	185
PROJECT FILE NO.	606024		

BORING LOGS

Plotted on 26-Aug-2022 5:39 PM

606024_HD_(KEY).DWG

BORING LOG — WB-24 (Page No. 1 of 2)

nobis

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024
Location: Taunton, Massachusetts
Nobis Project No.: 89010.06

Boring No.: WB-24
Boring Location: N: 2791053, E: 773013
Checked by: S. Kurtzer
Date Start: February 4, 2021
Date Finish: February 4, 2021

Contractor: Northern Drill Service, Inc.
Driller: Z. Sinasky
Nobis Rep.: K. Stanway
Rig Type / Model: ATV/ Diedrich D-25
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 16.5
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/04/21	12:00	6	Out	33	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
S-1	9	0-2	1, 1, 1, 1	TOPSOIL 14.5 / 2.0	S-1: Very loose, brown, Organic SILT, some fine Sand, very few roots. Moist. (TOPSOIL).	
S-2	19	2-4	1, 1, 1, 2	SUBSOIL 12.5 / 4.0	S-2: Very loose, orange, fine to medium SAND, little Silt, very few roots. Moist. (SUBSOIL).	
S-3	11	4-6	7, 8, 9, 10	ALLUVIUM	S-3: Medium dense, grayish tan, fine to coarse SAND, little Silt. Wet.	1
S-4	13	6-8	5, 6, 6, 7	8.5 / 8.0	S-4A (9"): Medium dense, light gray, fine to coarse SAND, trace Silt. Wet. S-4B (4"): Medium dense, orangish tan, fine SAND, some Silt. Bright orange staining at top of layer. Wet.	
S-5	16	8-10	1, 2, 2, 2	FINE DEPOSITS	S-5: Soft, gray, CLAY & SILT. Wet.	
S-6	24	14-16	1, 1, 2, 2		S-6: Soft, gray, CLAY & SILT, trace fine Sand. Varved. Wet.	
S-7	24	19-21	1, 1, 2, 2		S-7: Soft, gray, CLAY & SILT. Wet.	
S-8	18	24-26	3, 4		S-8: Stiff, gray, CLAY & SILT. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING LOG — WB-24 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring No.: WB-24; Boring Location: N: 2791053, E: 773013; Checked by: S. Kurtzer; Date Start: February 4, 2021; Date Finish: February 4, 2021; Contractor: Northern Drill Service, Inc.; Driller: Z. Sinasky; Nobis Rep.: K. Stanway; Rig Type / Model: ATV/ Diedrich D-25; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 16.5; Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/04/21	12:00	6	Out	33	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
			8, 6	FINE DEPOSITS -12.5 / 29.0		
S-9	12	29-31	7, 24, 11, 17	COARSE DEPOSITS -16.5 / 33.0	S-9A (6"): Dense, grayish tan, fine to coarse SAND, trace Silt. Wet. S-9B (6"): Dense, dark gray, fine to coarse SAND, little fine to coarse Gravel, little Silt. Silt seam at top of layer. Wet. Bedrock surface inferred from increased drilling resistance.	
					Boring terminated at 33 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING LOG — WB-25 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring No.: WB-25; Boring Location: N: 2791051, E: 773081; Checked by: S. Kurtzer; Date Start: February 4, 2021; Date Finish: February 4, 2021; Contractor: Northern Drill Service, Inc.; Driller: Z. Sinasky; Nobis Rep.: K. Stanway; Rig Type / Model: ATV/ Diedrich D-25; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 16.5; Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/04/21	00:00	4.5	Out	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
S-1	11	0-2	1, 1, 1, 1	TOPSOIL 14.5 / 2.0	S-1: Very loose, brown, Organic SILT and fine to medium Sand. Moist. (TOPSOIL).	
S-2	16	2-4	2, 3, 4, 5	SUBSOIL 12.5 / 4.0	S-2: Loose, orange to gray, fine to medium SAND, trace Silt. Moist. (SUBSOIL).	
S-3	12	4-6	8, 13, 12, 10	ALLUVIUM	S-3: Medium dense, orange to gray, fine to coarse SAND, little Silt. Wet.	1
S-4	16	6-8	8, 6, 7, 7	9.9 / 6.6	S-4A (7"): Medium dense, orange to gray, fine to coarse SAND, little Silt. Wet. S-4B (9"): Stiff, gray, CLAY & SILT, little fine to medium Sand. Orange staining at top of sample. Wet.	
S-5	19	8-10	1, 2, 3, 4	FINE DEPOSITS	S-5: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-6	22	14-16	1, 1, 2, 2		S-6: Soft, gray, CLAY & SILT, little fine Sand. Wet.	
S-7	23	19-21	1, 1, 2, 1	-4.5 / 21.0	S-7: Soft, gray, CLAY & SILT. Frequent silt seams. Wet.	
					Boring terminated at 21 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING LOG — WB-26 (Page No. 1 of 1)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring No.: WB-26; Boring Location: N: 2791061, E: 773147; Checked by: S. Kurtzer; Date Start: February 5, 2021; Date Finish: February 5, 2021; Contractor: Northern Drill Service, Inc.; Driller: Z. Sinasky; Nobis Rep.: K. Stanway; Rig Type / Model: ATV/ Diedrich D-25; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 16; Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/05/21	08:20	4.5	Out	21	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
S-1	13	0-2	1, 1, 2, 3	TOPSOIL 13.6 / 2.4	S-1: Very loose, orangish brown, Organic SILT and fine to medium Sand. very few organic fibers. Moist. (TOPSOIL).	
S-2	9	2-4	1, 1, 2, 3	ALLUVIUM	S-2A (5"): Very loose, orangish brown, Organic SILT and fine to medium Sand. very few organic fibers. Moist. (TOPSOIL). S-2B (4"): Very loose, tan, fine to medium SAND, some Silt. Moist.	
S-3	12	4-6	5, 7, 10, 10		S-3: Medium dense, tan-gray, fine to medium SAND, little Silt. Wet.	1
S-4	15	6-8	4, 6, 8, 8	9.0 / 7.0	S-4A (12"): Medium dense, gray and tan, fine to coarse SAND, little Silt. Wet. S-4B (3"): Stiff, grayish orange, CLAY & SILT, some fine to medium Sand. Orange staining at top of layer. Wet.	
S-5	0	8-10	6, 4, 6, 7	FINE DEPOSITS	S-5: Stiff, gray, CLAY & SILT, trace fine to coarse Sand. Frequent silt seams. Wet. No recovery upon advancing 1-3/8-inch split-spoon sampler. A 3-inch split-spoon subsequently advanced to obtain sample.	
S-6	24	14-16	2, 3, 3, 4		S-6: Medium stiff, gray, CLAY & SILT. Frequent silt seams. Wet.	
S-7	20	19-21	2, 2, 3, 3	-5.0 / 21.0	S-7: Stiff, gray, CLAY & SILT, trace fine Sand. Frequent silt seams. Occasional silt layers. Wet.	
					Boring terminated at 21 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING LOG — WB-27 (Page No. 1 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring No.: WB-27; Boring Location: N: 2791089, E: 773249; Checked by: S. Kurtzer; Date Start: February 4, 2021; Date Finish: February 4, 2021; Contractor: Northern Drill Service, Inc.; Driller: Z. Sinasky; Nobis Rep.: K. Stanway; Rig Type / Model: ATV/ Diedrich D-25; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 14.5; Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/04/21	08:35	4.5	Out	36	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
S-1	15	0-2	8, 54, 16, 12	14.1 / 0.4 TOPSOIL; FILL	S-1A (5"): Loose, brown, Organic SILT, several organic fibers. Wet. (TOPSOIL). S-1B (10"): Very dense, light gray, fine to coarse SAND and fine to coarse Gravel, some Silt. Pulverized rock in split-spoon Dry. (FILL).	
S-2	5	2-4	3, 7, 7, 12		S-2: Medium dense, orangish brown, fine to coarse SAND, trace fine Gravel, trace Silt. Moist. (FILL).	
S-3	8	4-6	15, 15, 12, 7	8.5 / 6.0	S-3: Medium dense, gray, fine to coarse SAND, little fine to coarse Gravel. Wet. (FILL).	1
S-4	9	6-8	7, 5, 6, 6	FINE DEPOSITS	S-4: Stiff, gray, CLAY & SILT. Frequent orange-stained silt seams. Wet.	
S-5	0	8-10	3, 5, 5, 6		S-5: Stiff, gray, CLAY & SILT. Occasional orange-stained silt seams Wet.	
S-6	10	14-16	1, 2, 2, 3		S-6: Soft, gray, CLAY & SILT, little fine Sand. Wet.	
S-7	20	19-21	2, 2, 3, 4		S-7: Medium stiff, gray, CLAY & SILT. Wet.	
S-8	13	24-26	4, 3		S-8: Stiff, gray, CLAY & SILT. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING LOG — WB-27 (Page No. 2 of 2)

Project: Route 44 (Dean Street) Reconstruction, MassDOT No. 606024; Location: Taunton, Massachusetts; Nobis Project No.: 89010.06; Boring No.: WB-27; Boring Location: N: 2791089, E: 773249; Checked by: S. Kurtzer; Date Start: February 4, 2021; Date Finish: February 4, 2021; Contractor: Northern Drill Service, Inc.; Driller: Z. Sinasky; Nobis Rep.: K. Stanway; Rig Type / Model: ATV/ Diedrich D-25; Hammer Type: Automatic Hammer; Hammer Hoist: Automatic; Ground Surface Elev.: (+/-) 14.5; Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
02/04/21	08:35	4.5	Out	36	0 minutes

Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Stratum Elev. / Depth (ft.)	Sample Description and Remarks	Notes
			6, 7	FINE DEPOSITS -14.5 / 29.0		
S-9	4	29-31	4, 4, 5, 8	COARSE DEPOSITS	S-9: Loose, gray, fine to coarse SAND and fine to coarse Gravel, little Silt. Wet.	
S-10	3	34-36	9, 5, 11, 14	-21.5 / 36.0	S-10: Medium dense, gray, fine to coarse SAND, little Silt, trace fine Gravel. Wet.	
					Boring terminated at 36 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
2) Borehole backfilled with drilling spoils and gravel.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums, transitions may be gradual.

BORING NOTES:

FOR BORING NOTES SEE SHEET 4.

BORING LOG

nobis

Project:	Route 44 (Dean Street) Reconstruction
	MassDOT No. 606024
Location:	Taunton, Massachusetts
Nobis Project No.:	89010.06

Boring No.:	WB-28
Boring Location:	N: 2791080, E: 773337
Checked by:	S. Kurtzer
Date Start:	February 3, 2021
Date Finish:	February 3, 2021

Contractor:	Northern Drill Service, Inc.	Rig Type / Model:	ATV/ Diedrich D-25
Driller:	Z. Sinasky	Hammer Type:	Automatic Hammer
Nobis Rep.:	K. Stanway	Hammer Hoist:	Automatic

Ground Surface Elev.: (+/-) 13.5

Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	4	1-3/8
Advancement	Drive and Wash	140-lb Hammer

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 02/03/21	12:35	4.5	Out	21	0 minutes

Depth (ft)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	10	0-2	1 1 1 1			TOPSOIL 11.5 / 2.0	S-1: Very loose, brown, Organic SILT, some fine to medium Sand, several organic fibers. Moist. (TOPSOIL).	
3	S-2	17	2-4	2 4 8 7			ALLUVIUM 9.2 / 4.3	S-2: Medium dense, tan to gray, fine to medium SAND, little Silt, very few roots. Moist.	
5	S-3	10	4-6	4 5 7 7	▼		FINE DEPOSITS 7.5 / 6.0	S-3A (3"): Medium dense, grayish tan, fine to coarse SAND, trace Silt. Wet.	1
								S-3B (7"): Stiff, orangish gray, CLAY & SILT, some fine Sand. Wet.	
7	S-4	21	6-8	5 5 4 8			SAND 6.7 / 6.8	S-4A (10"): Loose, gray, fine to coarse SAND, trace Silt. Wet.	
								S-4B (11"): Stiff, orangish gray, CLAY & SILT, trace fine Sand. Frequent orange-stained silt seams. Wet.	
9	S-5	20	8-10	2 2 3 4			FINE DEPOSITS	S-5: Medium stiff, orangish gray to gray, CLAY & SILT, little fine Sand. Frequent silt seams. Wet.	
15	S-6	21	14-16	1 1 2 2				S-6: Soft, gray, CLAY & SILT, trace fine Sand. Frequent silt seams. Wet.	
20	S-7	20	19-21	2 1 2 2			-7.5 / 21.0	S-7: Soft, gray, CLAY & SILT. Wet.	
								Boring terminated at 21 feet.	2

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Water introduced to borehole during drive and wash process.
2) Borehole backfilled with drilling spoils and gravel.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.

Page No. 1 of 1

BORINGS.LOG, NOBIS GINT DATA TEMPLATE, OCT 7 2013 CDT - 11/5/21 16:25 - 1:89010.00, MASSDOT ROUTE 44 RECONSTRUCTION, TAUNTON\GEOTECHNICAL\CONTRACT\BORING LOG\DRAWINGS\606024_HD_(KEY).DWG, GPR TRIBARRED10.GDB, MASSDOT EXISTENCE DESIGN & REVIEW

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	13	185
PROJECT FILE NO.	606024		

BORING LOGS

BORING NOTES:

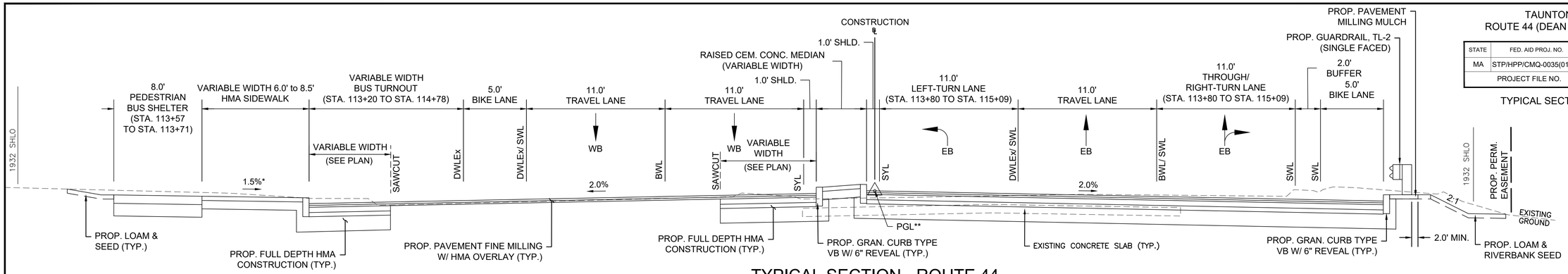
FOR BORING NOTES SEE SHEET 4.

606024_HD_(KEY).DWG Plotted on 26-Aug-2022 5:39 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	14	185
PROJECT FILE NO.	606024		

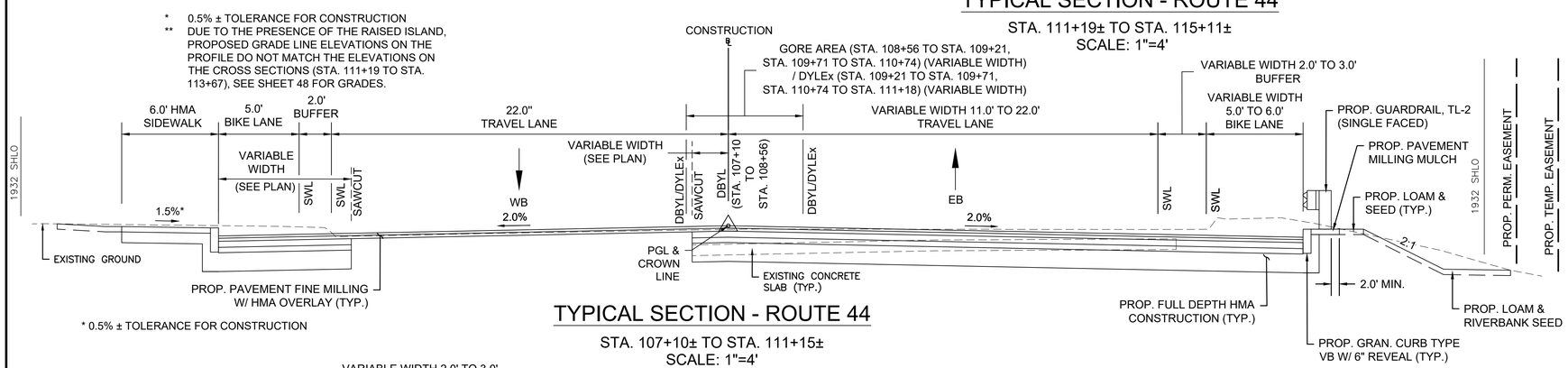
TYPICAL SECTIONS



TYPICAL SECTION - ROUTE 44

STA. 111+19± TO STA. 115+11±
SCALE: 1"=4'

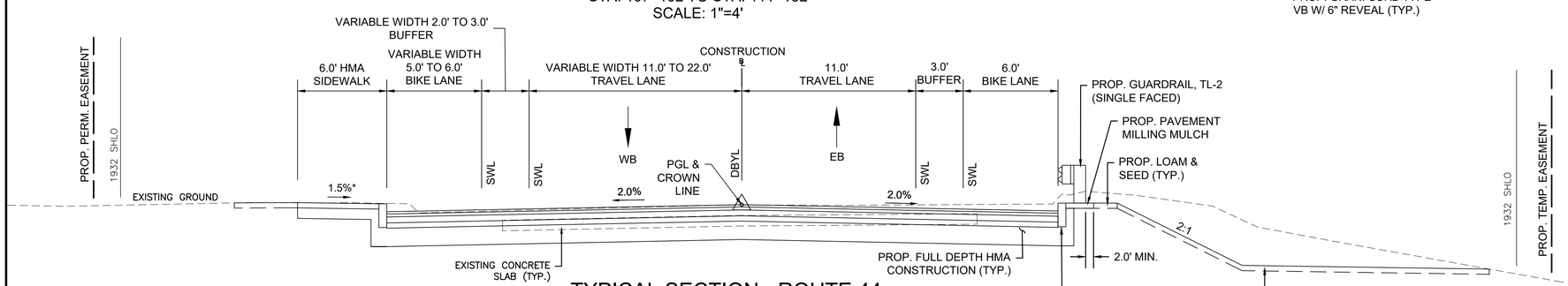
* 0.5% ± TOLERANCE FOR CONSTRUCTION
** DUE TO THE PRESENCE OF THE RAISED ISLAND, PROPOSED GRADE LINE ELEVATIONS ON THE PROFILE DO NOT MATCH THE ELEVATIONS ON THE CROSS SECTIONS (STA. 111+19 TO STA. 113+67), SEE SHEET 48 FOR GRADES.



* 0.5% ± TOLERANCE FOR CONSTRUCTION

TYPICAL SECTION - ROUTE 44

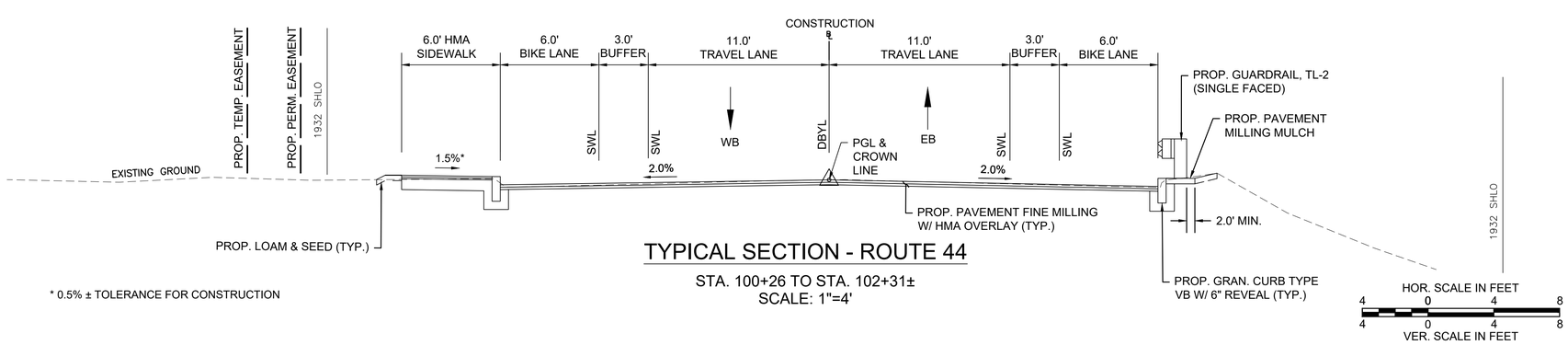
STA. 107+10± TO STA. 111+15±
SCALE: 1"=4'



TYPICAL SECTION - ROUTE 44

STA. 102+31± TO STA. 107+10±
SCALE: 1"=4'

* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - ROUTE 44

STA. 100+26 TO STA. 102+31±
SCALE: 1"=4'

* 0.5% ± TOLERANCE FOR CONSTRUCTION

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

PAVEMENT NOTES

FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

BASE COURSE: 4-1/2" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER

SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER
14" GRAVEL BORROW (M1.03.0 TYPE B) (OR SUITABLE EXISTING MATERIAL)

FULL DEPTH HMA CONSTRUCTION LESS THAN 4 FEET

SURFACE COURSE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

BASE COURSE: 6" HIGH-EARLY-STRENGTH CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 14" GRAVEL BORROW

PAVEMENT FINE MILLING W/ HMA OVERLAY

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)
2-1/4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)

SURFACE MILLING: 1 3/4" MIN. TO 4" MAX. PAVEMENT FINE MILLING TO BE USED ON THE EXISTING PAVEMENT SURFACE TO ACHIEVE DESIRED CROSS SLOPE

HOT MIX ASPHALT DRIVEWAYS

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
2-1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE "B" (OR SUITABLE EXISTING MATERIAL)

CEMENT CONCRETE ISLANDS, MEDIAN, SIDEWALKS, SIDEWALK AT DRIVEWAYS, PEDESTRIAN CURB RAMPS AND WALKWAYS

SURFACE: 4" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

SUBBASE: 8" GRAVEL BORROW TYPE "B" (OR SUITABLE EXISTING MATERIAL)

HOT MIX ASPHALT SIDEWALK

SURFACE: 1-1/4" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
1-3/4" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE "B"

HOT MIX ASPHALT SIDEWALK AT DRIVEWAYS

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
2-1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE "B" (OR SUITABLE EXISTING MATERIAL)

GENERAL NOTES

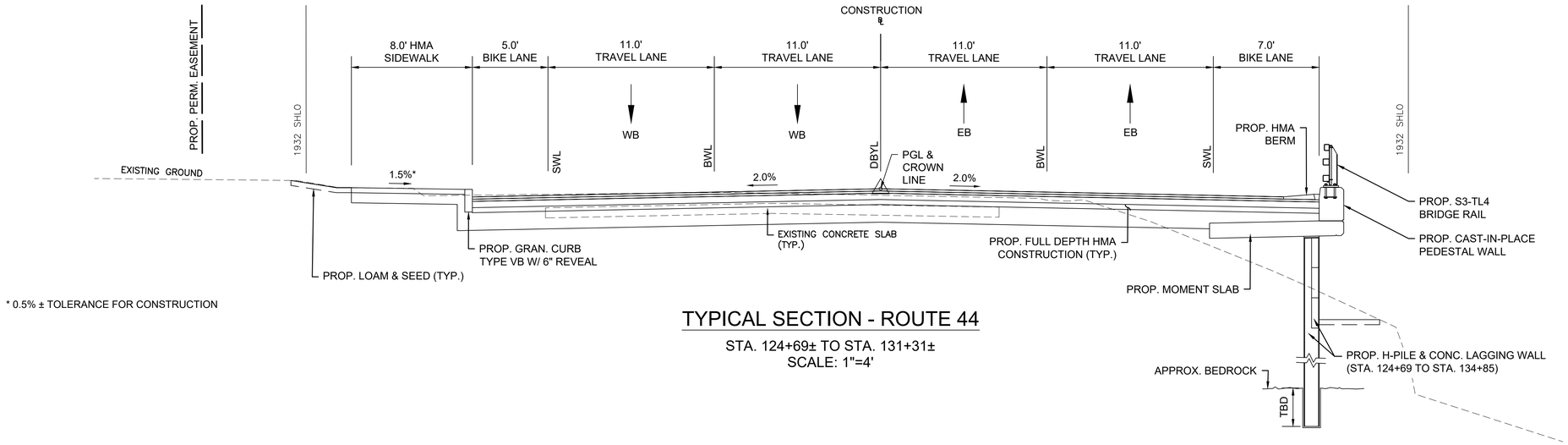
1. PREPARATION OF UNDERLYING SURFACE, ASPHALT EMULSION FOR TACK COAT, HMA FOR PATCHING, AND HMA JOINT ADHESIVE SHALL BE IN ACCORDANCE WITH SECTION 450.
2. THE SECTIONS OF ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER AT INTERSECTIONS OR ARE IN AREAS OF TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN.
3. REFER TO CONSTRUCTION STANDARD E 106.3.0 FOR METHOD OF SETTING CURB IN MILLED AREAS.
4. ASPHALT EMULSION FOR TACK COAT (RS-1H) SHALL BE APPLIED AT THE RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER NEW HMA SURFACES NOT OPENED TO TRAFFIC AS WELL AS OVER EXISTING TIGHT SMOOTH PAVEMENT. ON MILLED SURFACES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.07 TO 0.09 GALLONS PER SQUARE YARD. ON NEW HMA PATCHES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.09 GALLONS PER SQUARE YARD.

606024_HD_(TYP).DWG Plotted on 26-Aug-2022 5:39 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	15	185
PROJECT FILE NO.	606024		

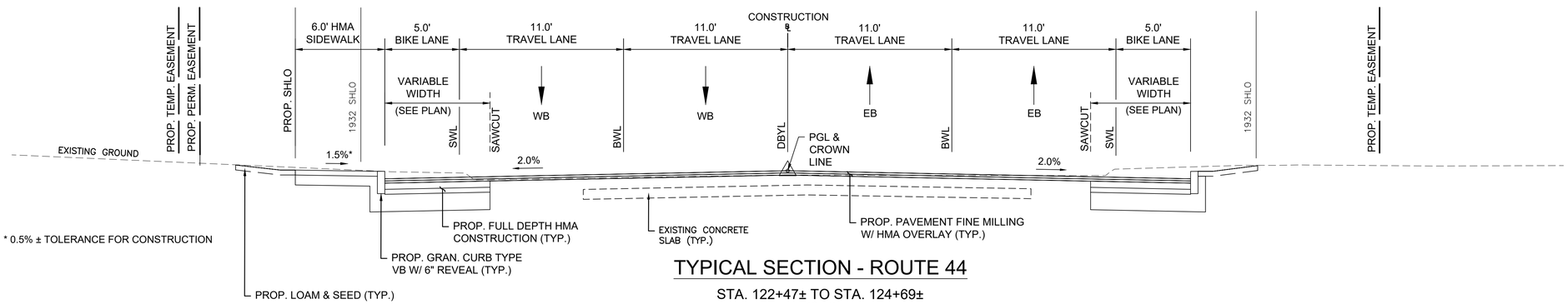
TYPICAL SECTIONS



* 0.5% ± TOLERANCE FOR CONSTRUCTION

TYPICAL SECTION - ROUTE 44

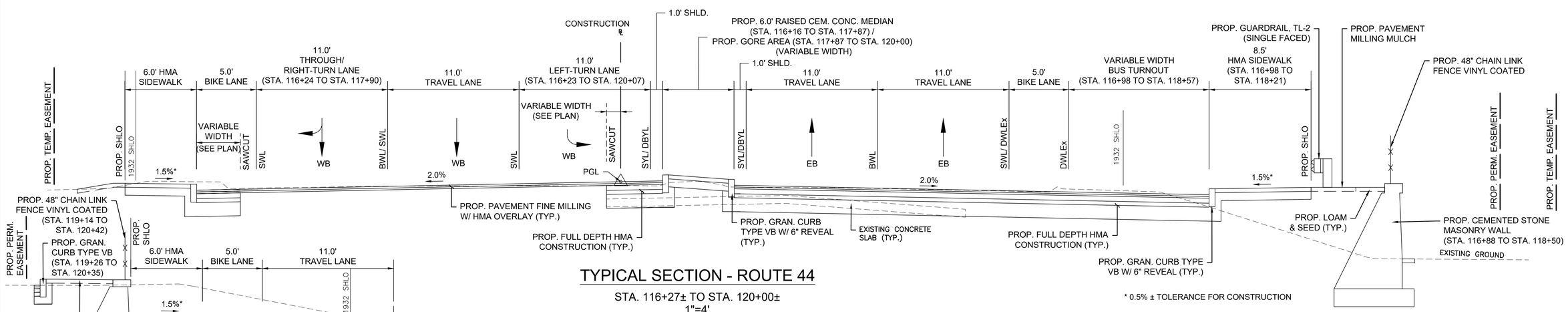
STA. 124+69± TO STA. 131+31±
SCALE: 1"=4'



* 0.5% ± TOLERANCE FOR CONSTRUCTION

TYPICAL SECTION - ROUTE 44

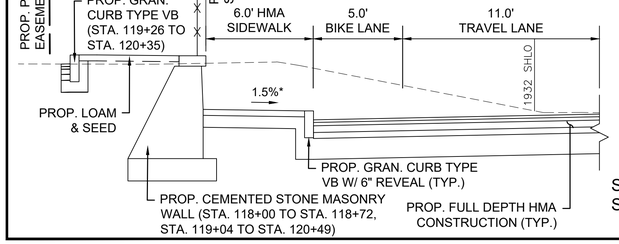
STA. 122+47± TO STA. 124+69±
1"=4'



* 0.5% ± TOLERANCE FOR CONSTRUCTION

TYPICAL SECTION - ROUTE 44

STA. 116+27± TO STA. 120+00±
1"=4'



RETAINING WALL

STA. 118+00± TO STA. 118+72±
STA. 119+04± TO STA. 120+49±
1"=4'

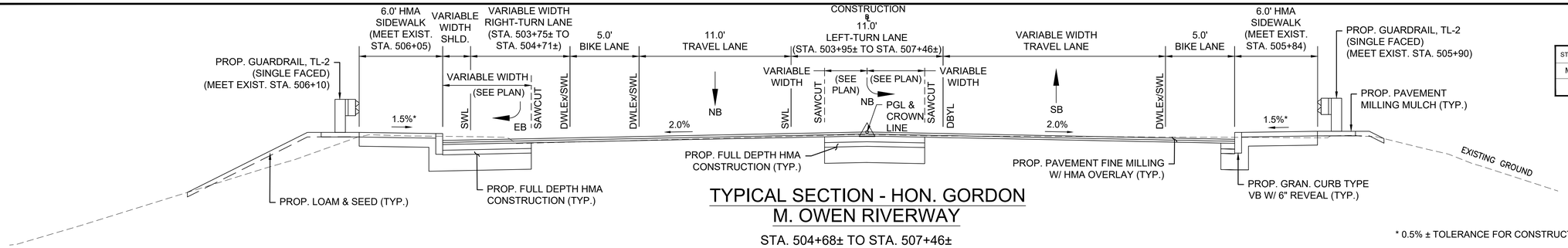
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(TYP).DWG Plotted on 26-Aug-2022 5:39 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	16	185
PROJECT FILE NO.	606024		

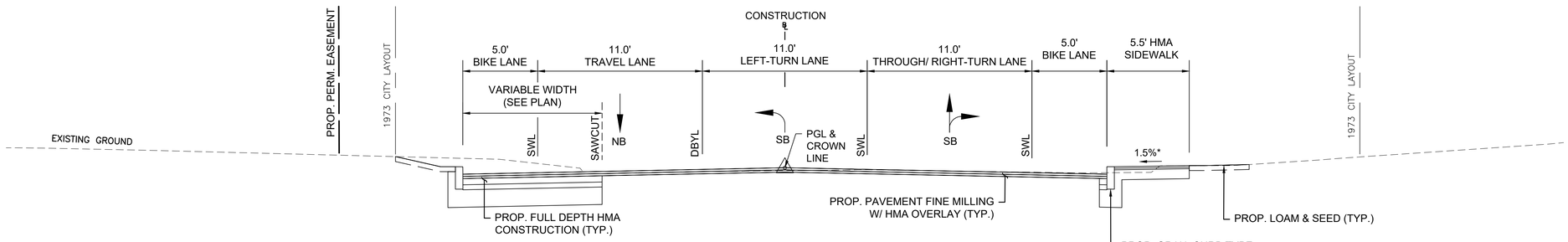
TYPICAL SECTIONS



TYPICAL SECTION - HON. GORDON M. OWEN RIVERWAY

STA. 504+68± TO STA. 507+46±
SCALE: 1"=4'

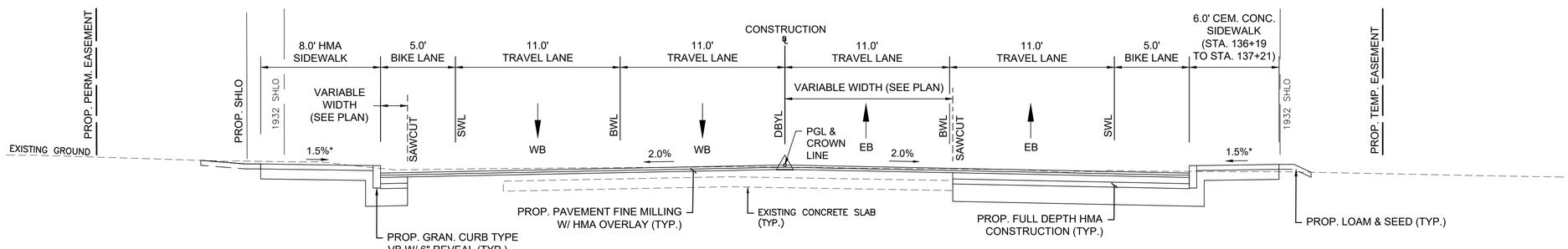
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - LONGMEADOW ROAD

STA. 500+27± TO STA. 502+63±
SCALE: 1"=4'

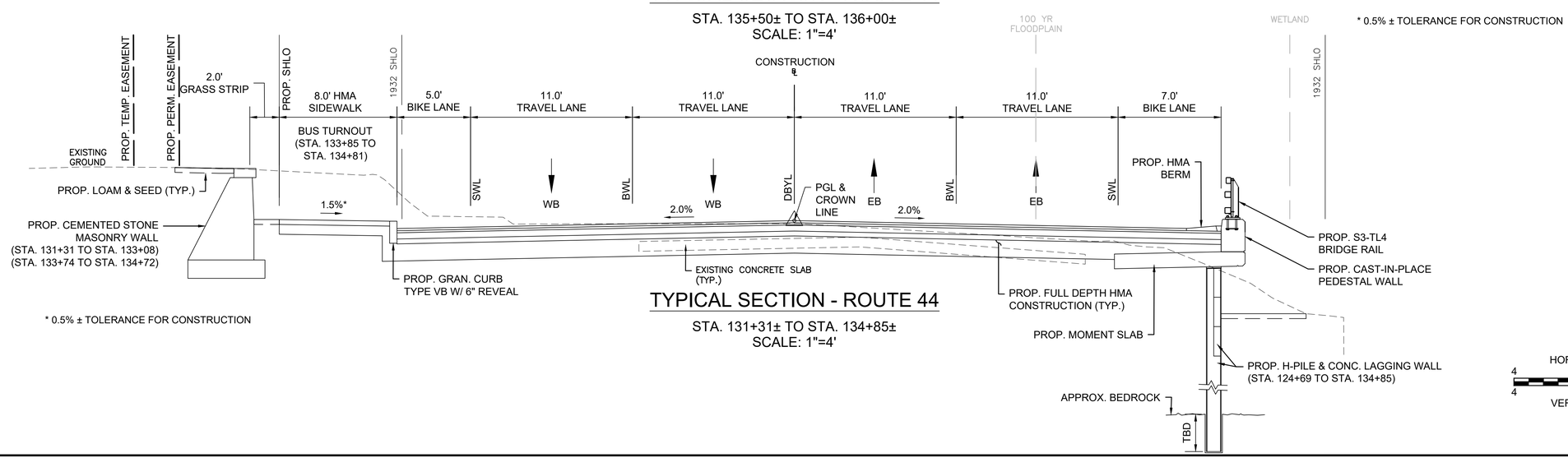
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - ROUTE 44

STA. 135+50± TO STA. 136+00±
SCALE: 1"=4'

* 0.5% ± TOLERANCE FOR CONSTRUCTION



* 0.5% ± TOLERANCE FOR CONSTRUCTION

TYPICAL SECTION - ROUTE 44

STA. 131+31± TO STA. 134+85±
SCALE: 1"=4'

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

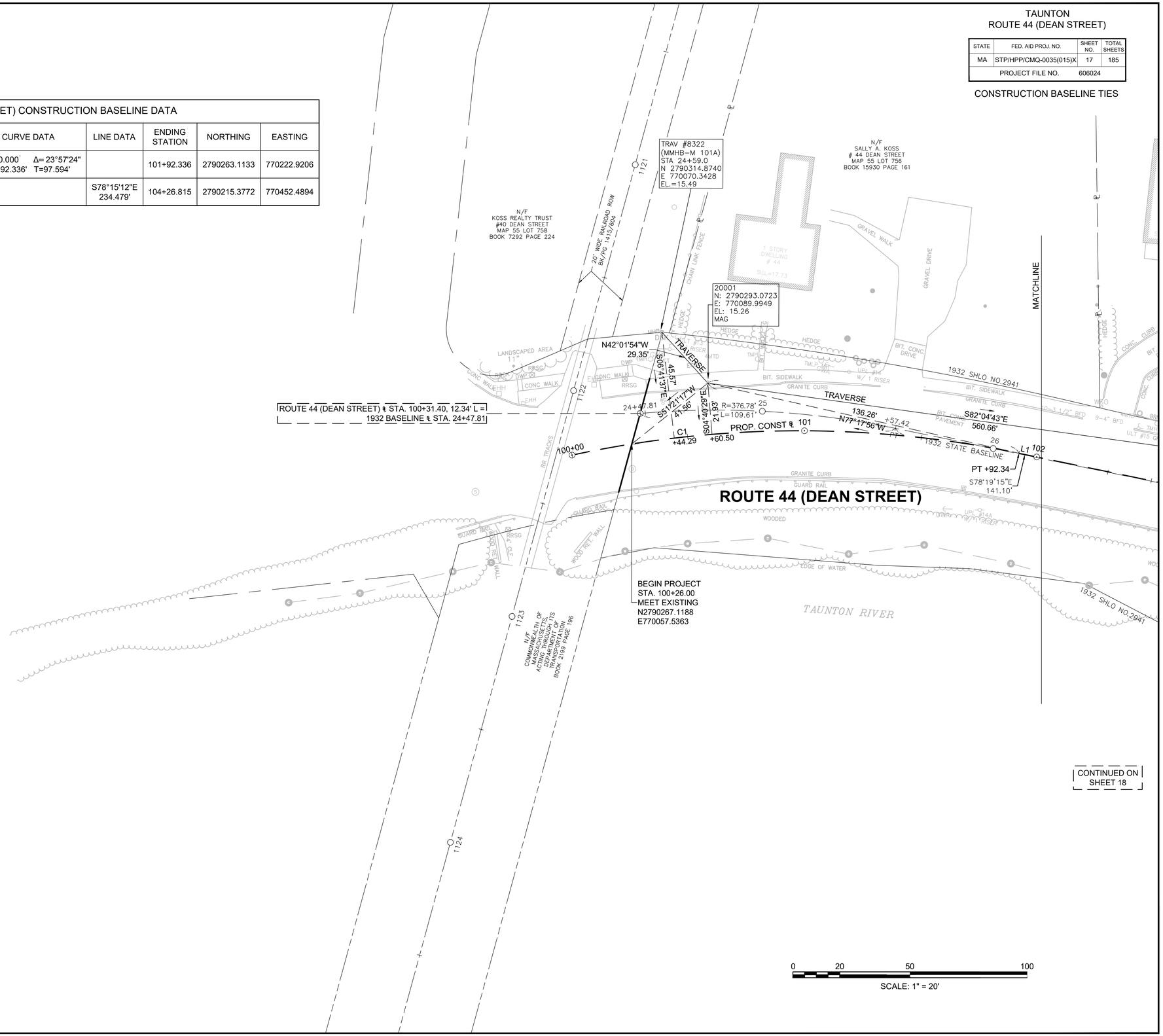
606024_HD_(TYP).DWG Plotted on 26-Aug-2022 5:39 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	17	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES

ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	100+00.000	2790262.3411	770031.9846	R=460.000' Δ=23°57'24" L=192.336' T=97.594'		101+92.336	2790263.1133	770222.9206
L1	101+92.336	2790263.1133	770222.9206		S78°15'12"E 234.479'	104+26.815	2790215.3772	770452.4894

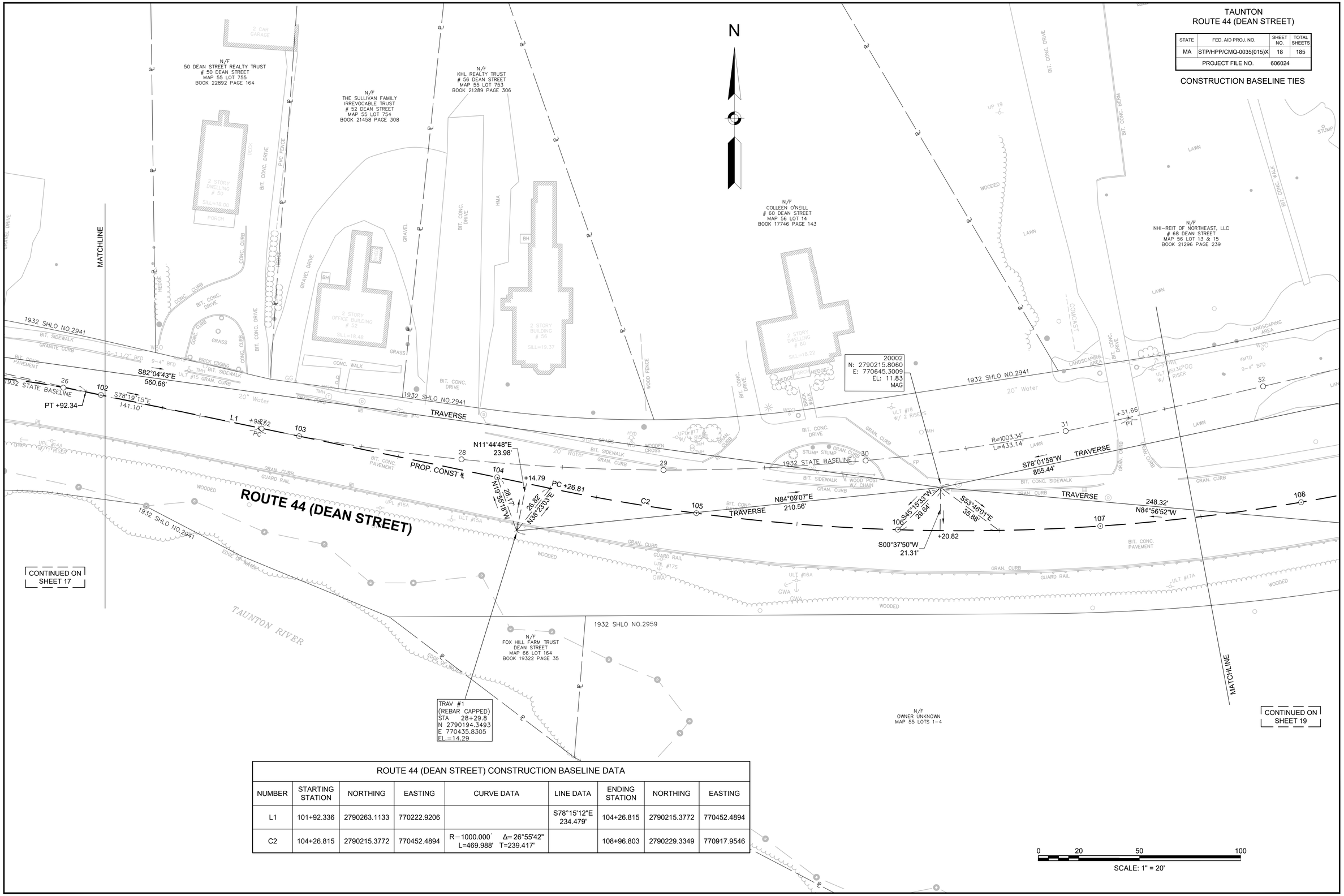


606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	18	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES



ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

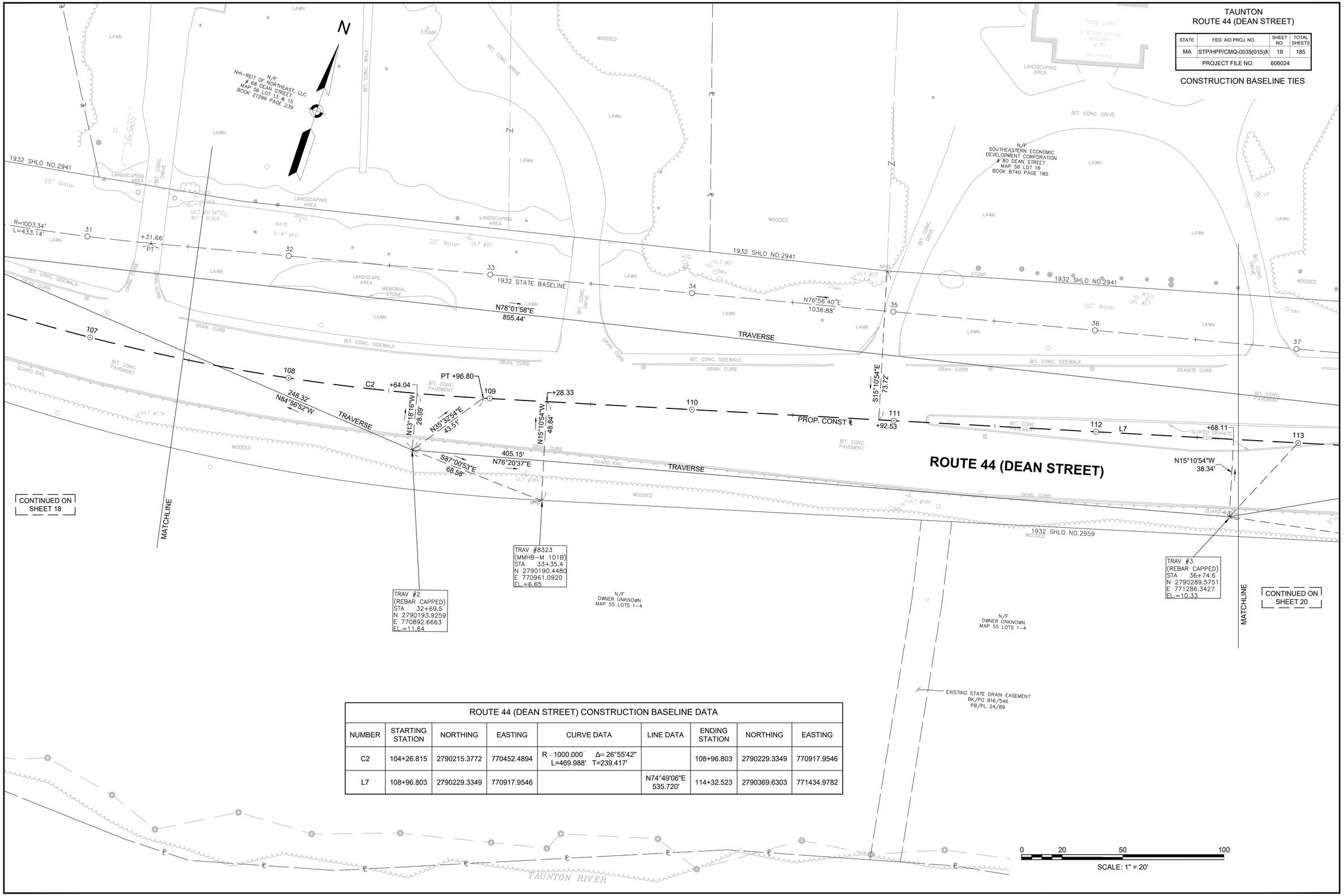
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	101+92.336	2790263.1133	770222.9206		S78°15'12"E 234.479'	104+26.815	2790215.3772	770452.4894
C2	104+26.815	2790215.3772	770452.4894	R=1000.000' Δ=26°55'42" L=469.988' T=239.417'		108+96.803	2790229.3349	770917.9546

606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	19	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES



ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

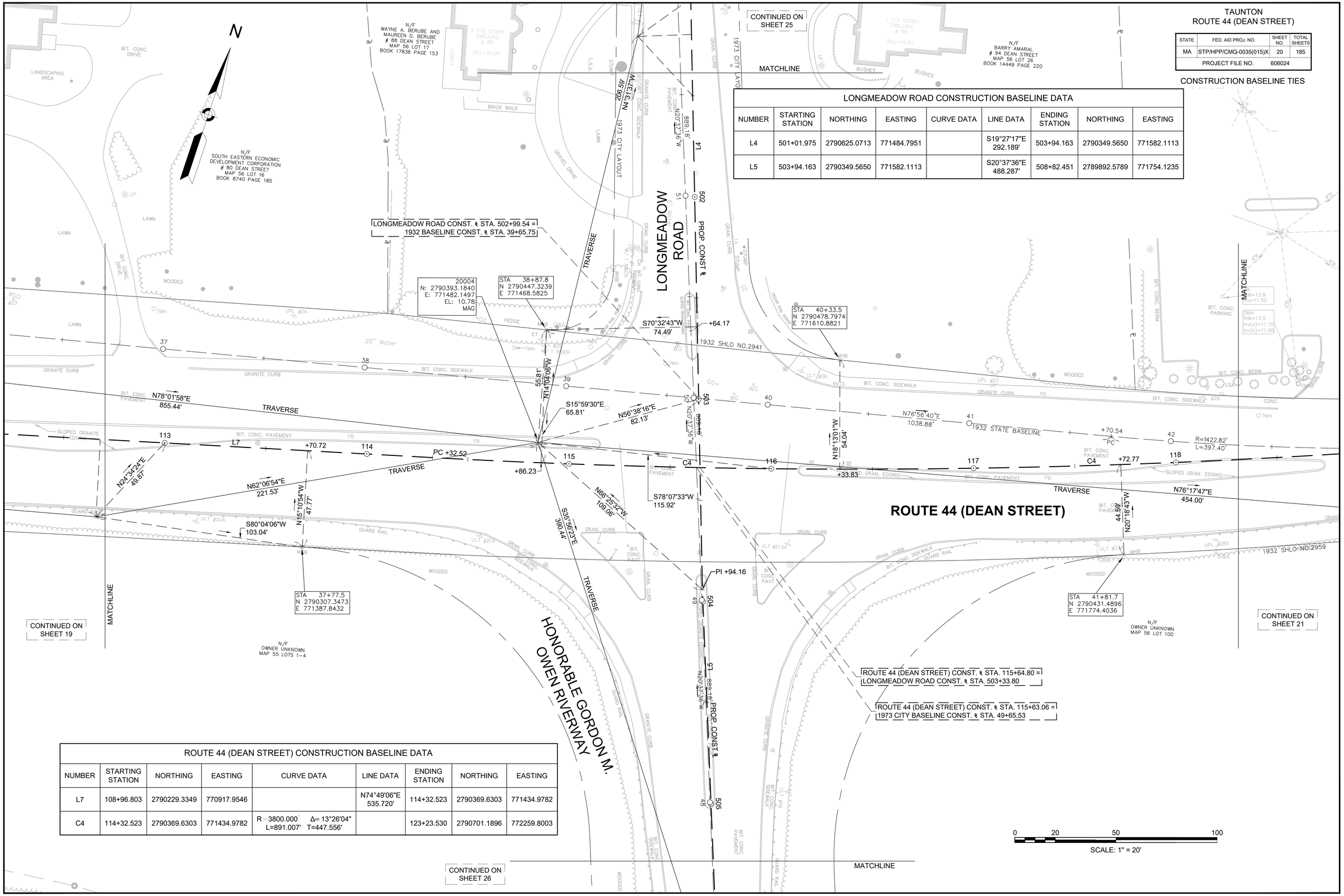
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C2	104+26.815	2790215.3772	770452.4894	R=1000.000' Δ=26°55'42" L=469.988' T=239.417'		108+96.803	2790229.3349	770917.9546
L7	108+96.803	2790229.3349	770917.9546		N74°49'06"E 535.720'	114+32.523	2790369.6303	771434.9782

606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	20	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES



LONGMEADOW ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	501+01.975	2790625.0713	771484.7951		S19°27'17"E 292.189'	503+94.163	2790349.5650	771582.1113
L5	503+94.163	2790349.5650	771582.1113		S20°37'36"E 488.287'	508+82.451	2789892.5789	771754.1235

ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

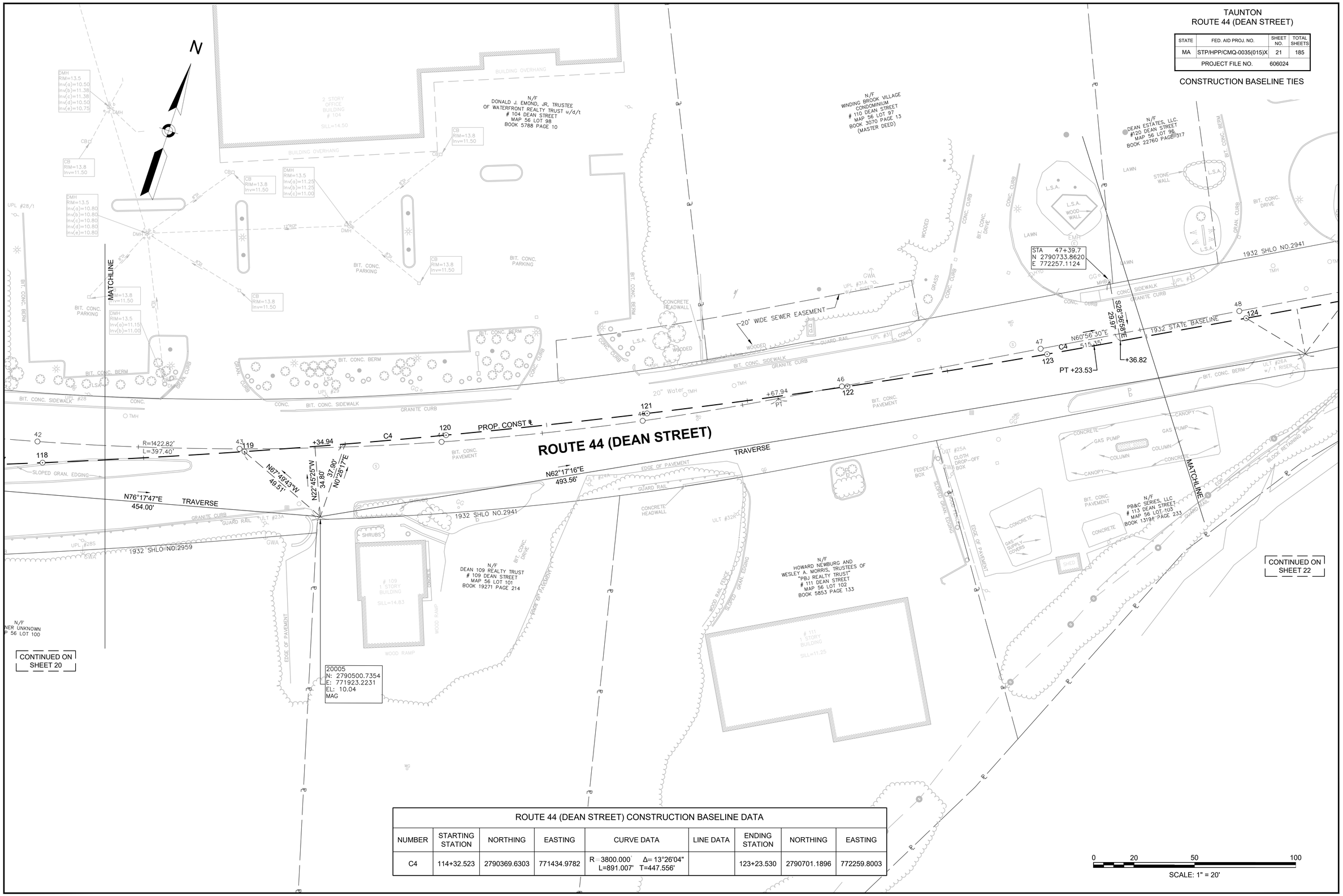
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	108+96.803	2790229.3349	770917.9546		N74°49'06"E 535.720'	114+32.523	2790369.6303	771434.9782
C4	114+32.523	2790369.6303	771434.9782	R=3800.000' Δ=13°26'04" L=891.007' T=447.556'		123+23.530	2790701.1896	772259.8003

606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	21	185
PROJECT FILE NO.	606024		

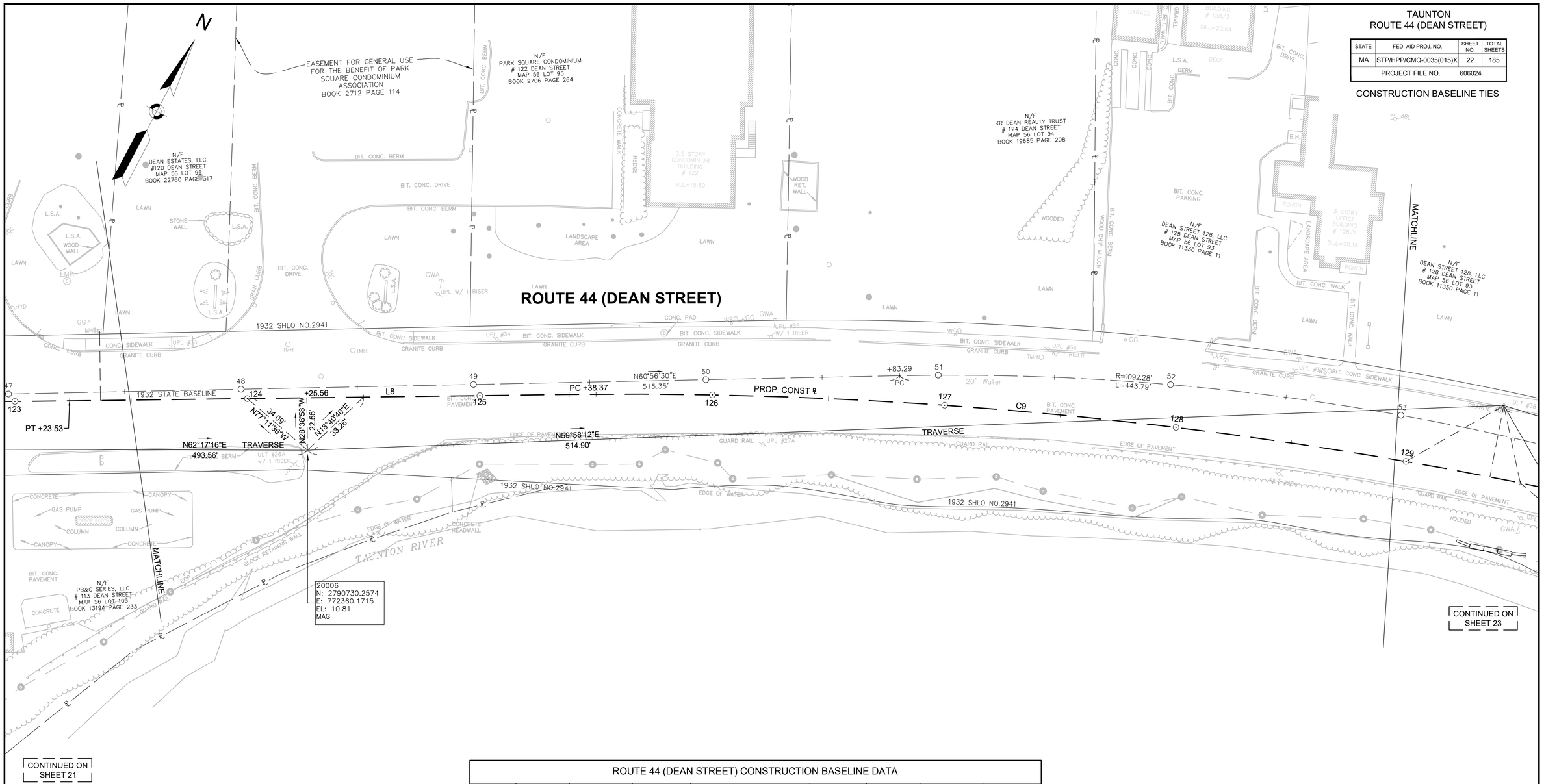
CONSTRUCTION BASELINE TIES



ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C4	114+32.523	2790369.6303	771434.9782	R=3800.000' Δ=13°26'04" L=891.007' T=447.556'		123+23.530	2790701.1896	772259.8003

606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM



TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	22	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES

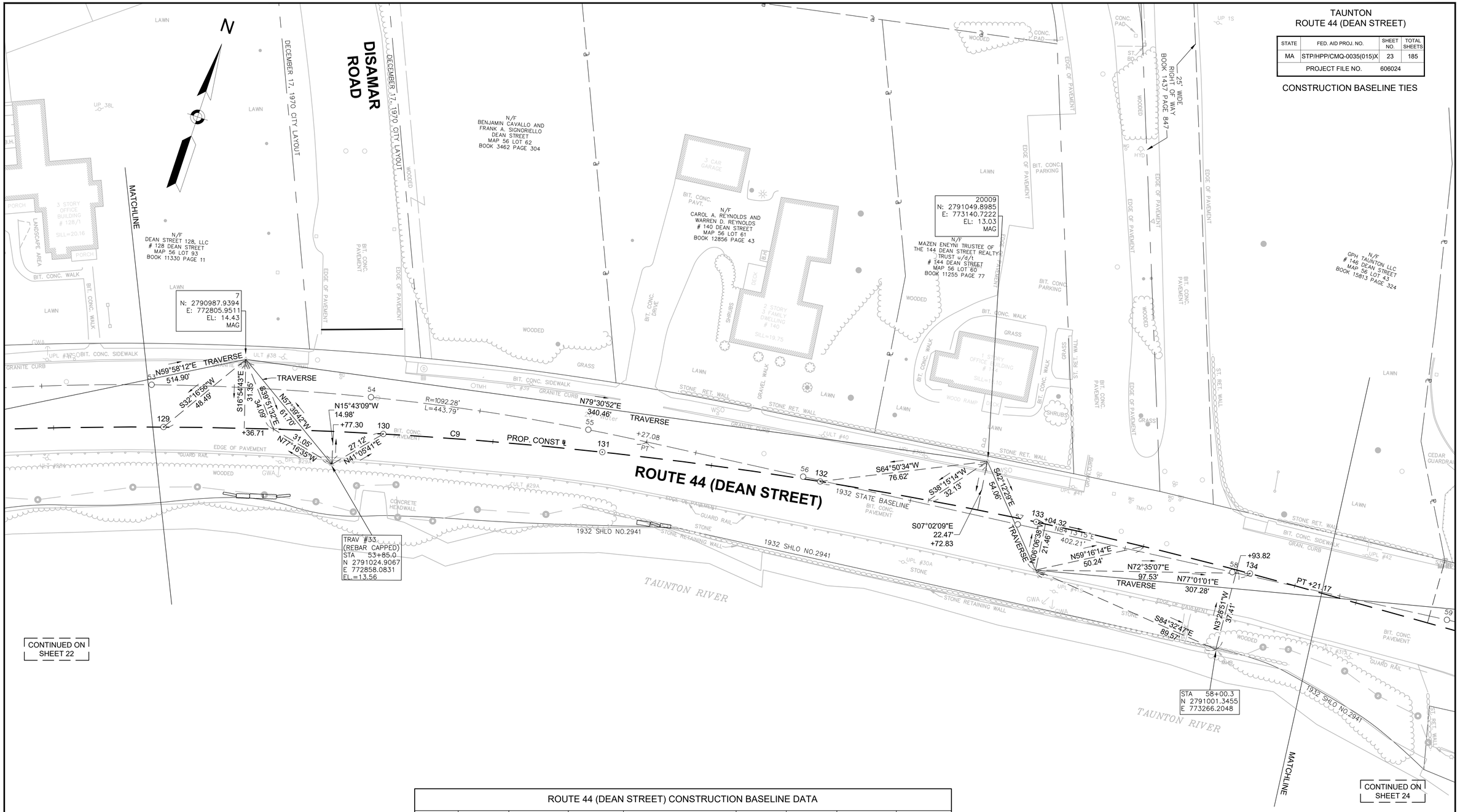
606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:40 PM

ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	123+23.530	2790701.1896	772259.8003		N61°23'02"E 214.836'	125+38.367	2790804.0834	772448.3938
C9	125+38.367	2790804.0834	772448.3938	R=1950.000' Δ=25°56'20" L=882.802' T=449.098'		134+21.168	2791040.1522	773291.2403

0 20 50 100

SCALE: 1" = 20'

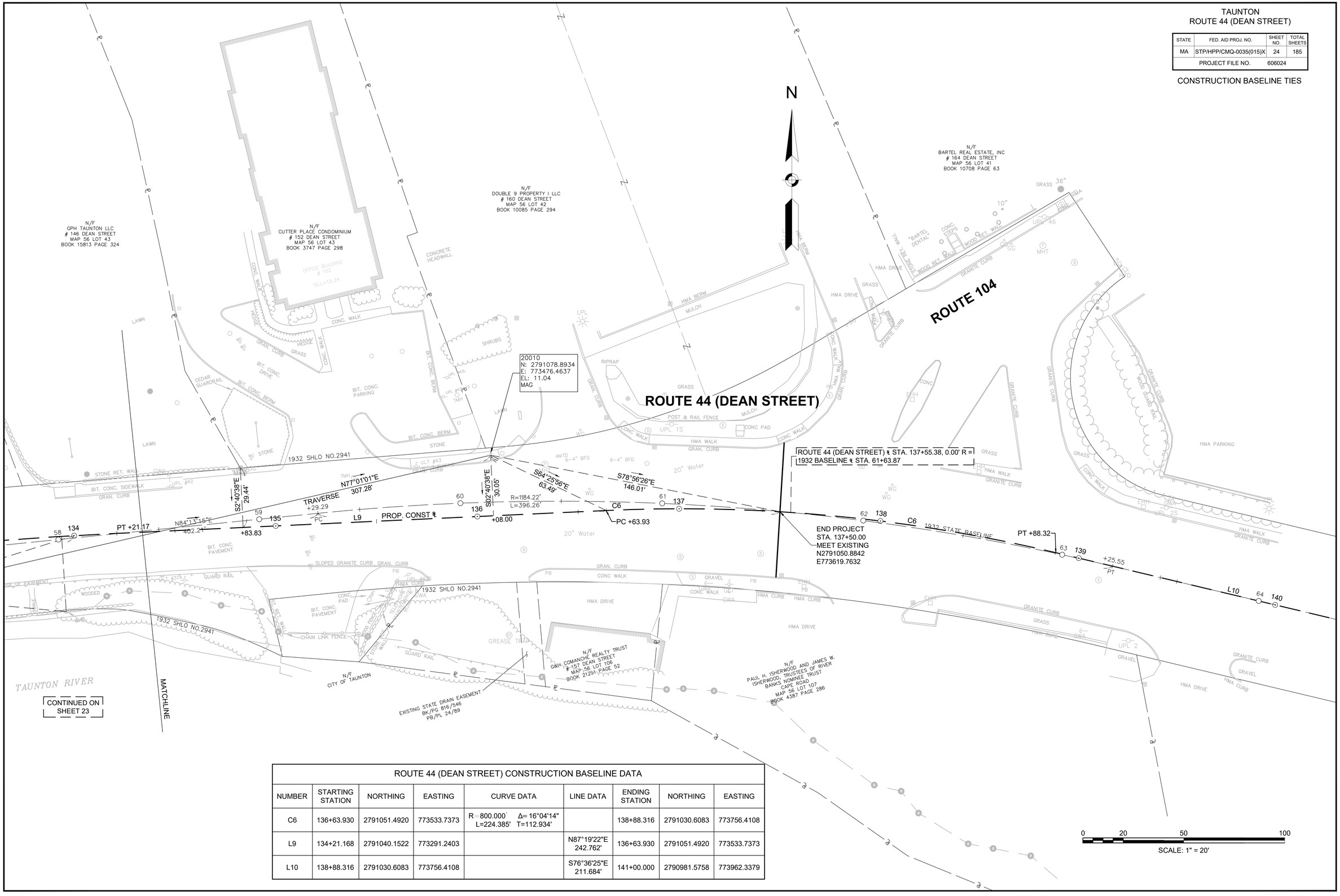


ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C9	125+38.367	2790804.0834	772448.3938	R = 1950.000' Δ= 25°56'20" L=882.802' T=449.098'		134+21.168	2791040.1522	773291.2403

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	24	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES



ROUTE 44 (DEAN STREET) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	136+63.930	2791051.4920	773533.7373	R=800.000' Δ=16°04'14" L=224.385' T=112.934'		138+88.316	2791030.6083	773756.4108
L9	134+21.168	2791040.1522	773291.2403		N87°19'22"E 242.762'	136+63.930	2791051.4920	773533.7373
L10	138+88.316	2791030.6083	773756.4108		S76°36'25"E 211.684'	141+00.000	2790981.5758	773962.3379

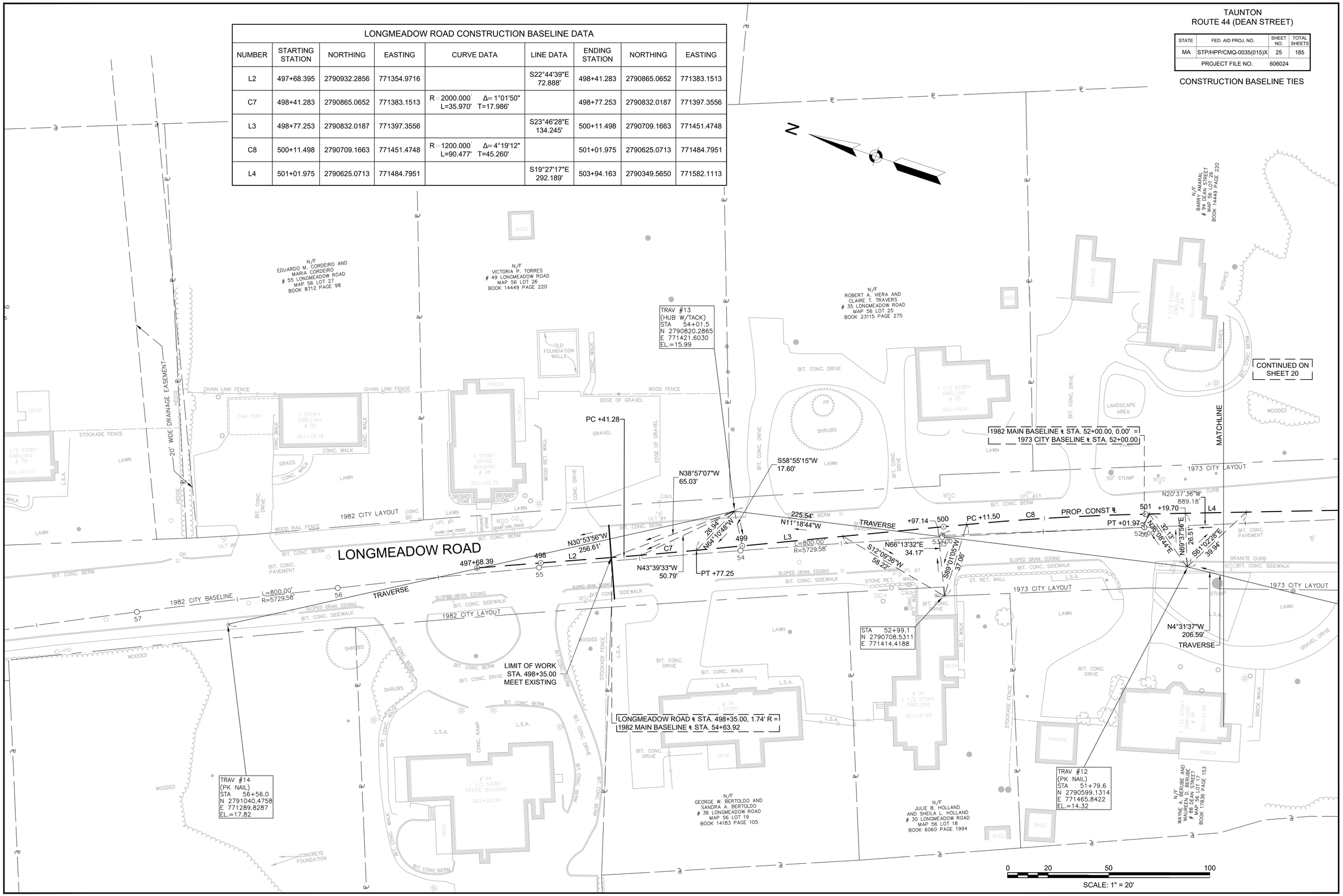
606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:41 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	25	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES

LONGMEADOW ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L2	497+68.395	2790932.2856	771354.9716		S22°44'39"E 72.888'	498+41.283	2790865.0652	771383.1513
C7	498+41.283	2790865.0652	771383.1513	R=2000.000' Δ=1°01'50" L=35.970' T=17.986'		498+77.253	2790832.0187	771397.3556
L3	498+77.253	2790832.0187	771397.3556		S23°46'28"E 134.245'	500+11.498	2790709.1663	771451.4748
C8	500+11.498	2790709.1663	771451.4748	R=1200.000' Δ=4°19'12" L=90.477' T=45.260'		501+01.975	2790625.0713	771484.7951
L4	501+01.975	2790625.0713	771484.7951		S19°27'17"E 292.189'	503+94.163	2790349.5650	771582.1113



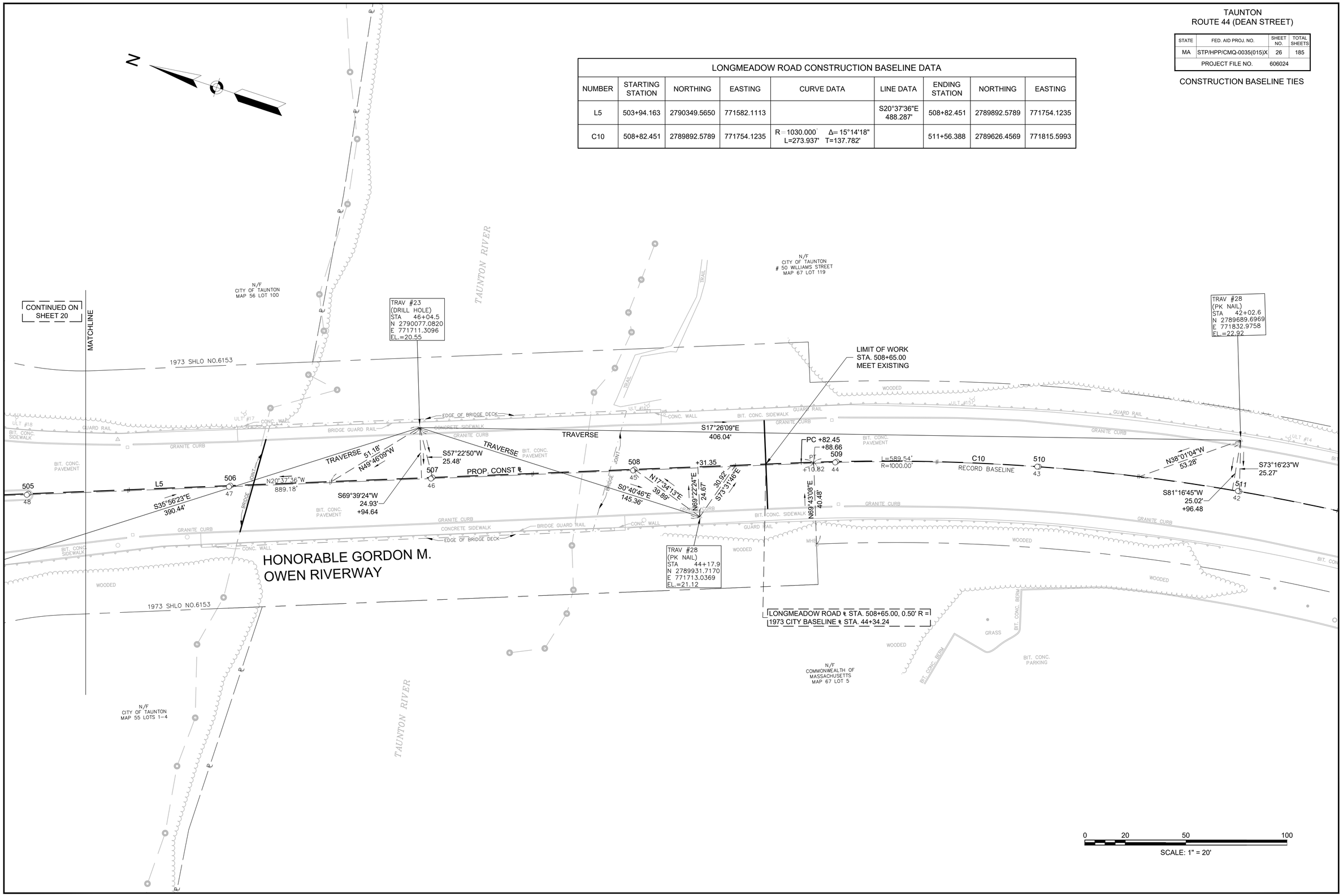
606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:41 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	26	185
PROJECT FILE NO.	606024		

CONSTRUCTION BASELINE TIES

LONGMEADOW ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	503+94.163	2790349.5650	771582.1113		S20°37'36"E 488.287'	508+82.451	2789892.5789	771754.1235
C10	508+82.451	2789892.5789	771754.1235	R=1030.000' Δ=15°14'18" L=273.937' T=137.782'		511+56.388	2789626.4569	771815.5993



606024_HD_(BLT).DWG Plotted on 26-Aug-2022 5:41 PM

HIGHWAY GUARD DETAILS
STA. 100+18 RT TO STA. 100+54 RT - ITEM 628.21
STA. 100+54 RT TO STA. 114+14 RT - ITEM 620.12

TRAFFIC SIGNAL CONDUIT
NONE

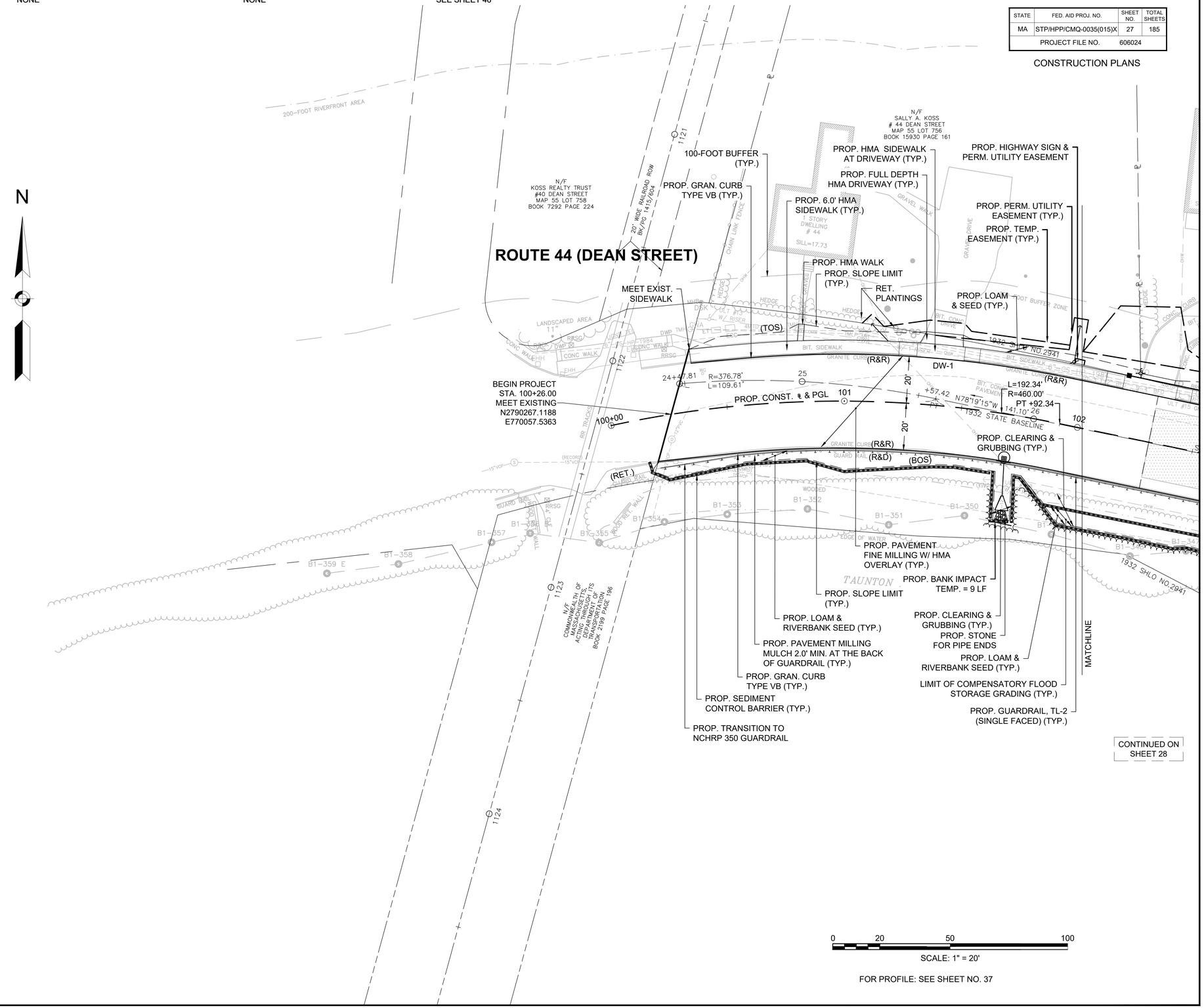
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 46

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	27	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. 37

CONTINUED ON SHEET 28

606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:41 PM

HIGHWAY GUARD DETAILS
STA. 100+54 RT TO STA. 114+14 RT - ITEM 620.12

TRAFFIC SIGNAL CONDUIT
NONE

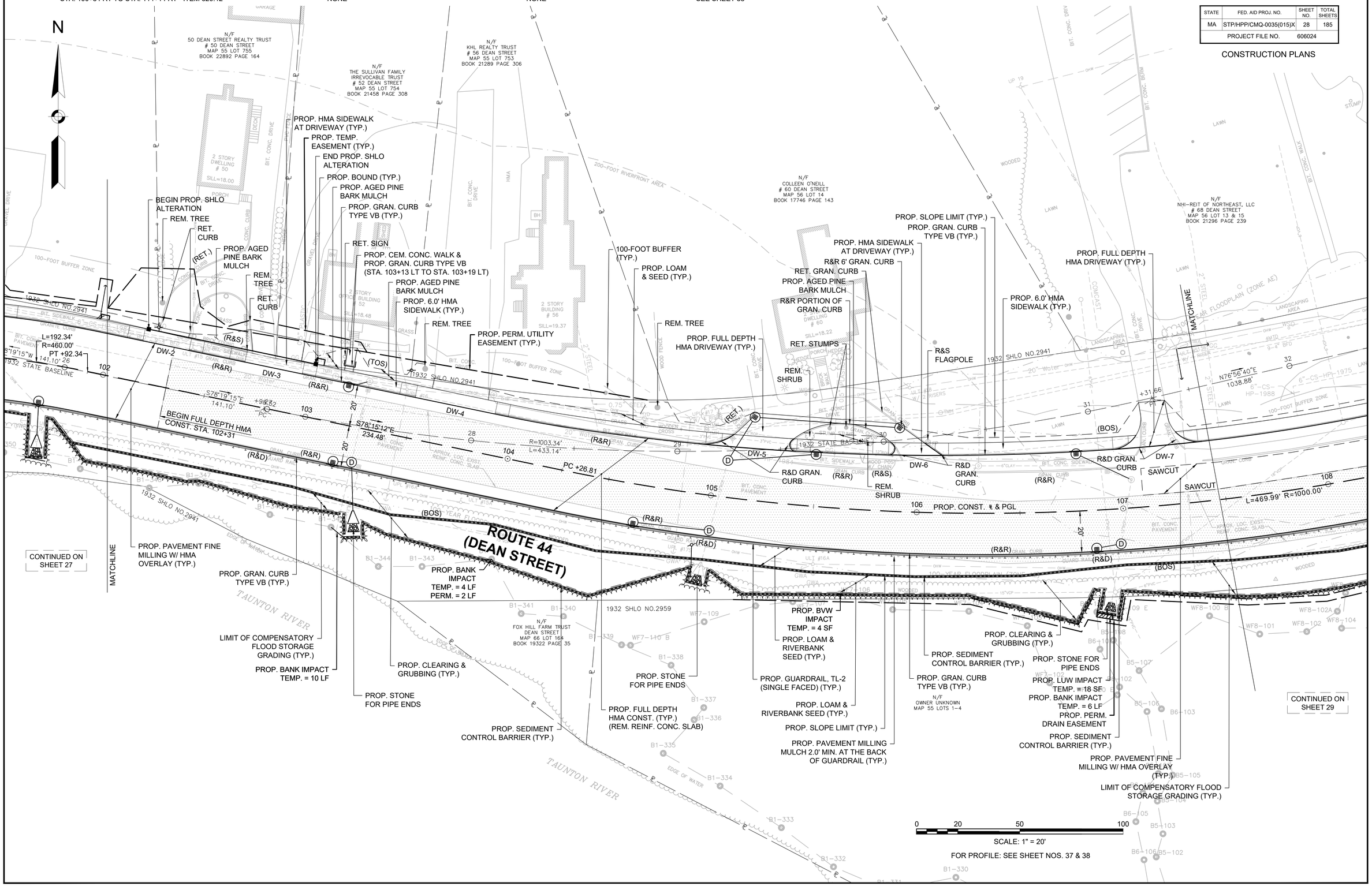
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 58

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	28	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:41 PM

HIGHWAY GUARD DETAILS
STA. 100+54 RT TO STA. 114+14 RT - ITEM 620.12

TRAFFIC SIGNAL CONDUIT
NONE

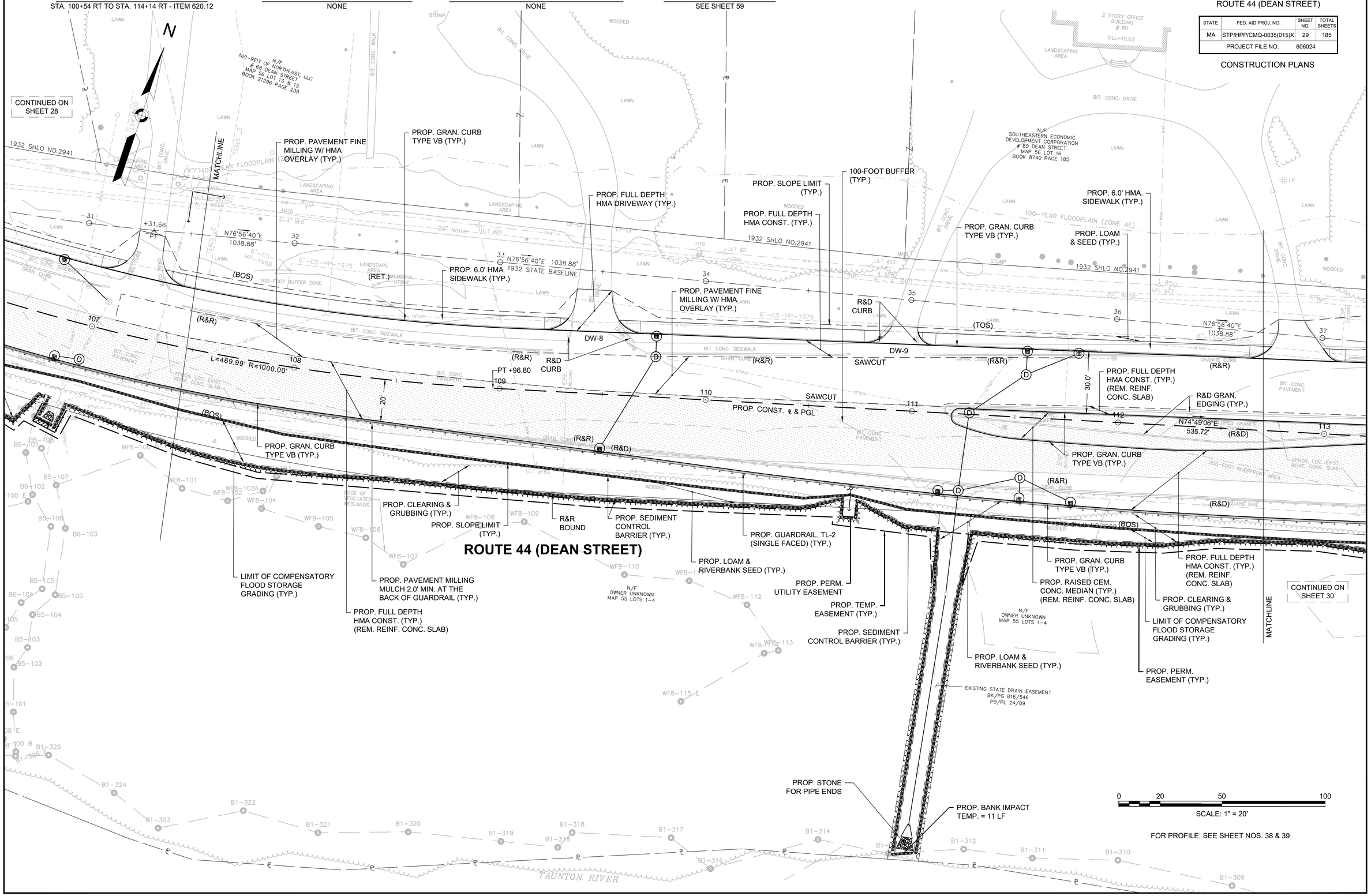
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 59

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	29	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NOS. 38 & 39

606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS

STA. 100+54 RT TO STA. 114+14 RT - ITEM 620.12
STA. 114+14 RT TO STA. 504+84 RT - ITEM 620.32
STA. 504+84 RT TO STA. 505+56 RT - ITEM 620.12
STA. 505+76 LT TO STA. 504+65 LT - ITEM 620.12
STA. 504+65 LT TO STA. 116+89 RT - ITEM 620.32
STA. 116+89 RT TO STA. 117+43 RT - ITEM 620.12
STA. 117+43 RT TO STA. 117+56 RT - ITEM 620.32
STA. 117+56 RT TO STA. 117+90 RT - ITEM 620.12
STA. 117+90 RT TO STA. 117+99 RT - ITEM 627.1

STA. 118+21 RT - ITEM 627.1
STA. 118+21 RT TO STA. 118+28 RT - ITEM 620.32
STA. 118+28 RT TO STA. 118+57 RT - ITEM 620.12

TRAFFIC SIGNAL CONDUIT

SEE SHEET 79

WATER SUPPLY ALTERATIONS

SEE SHEET 60

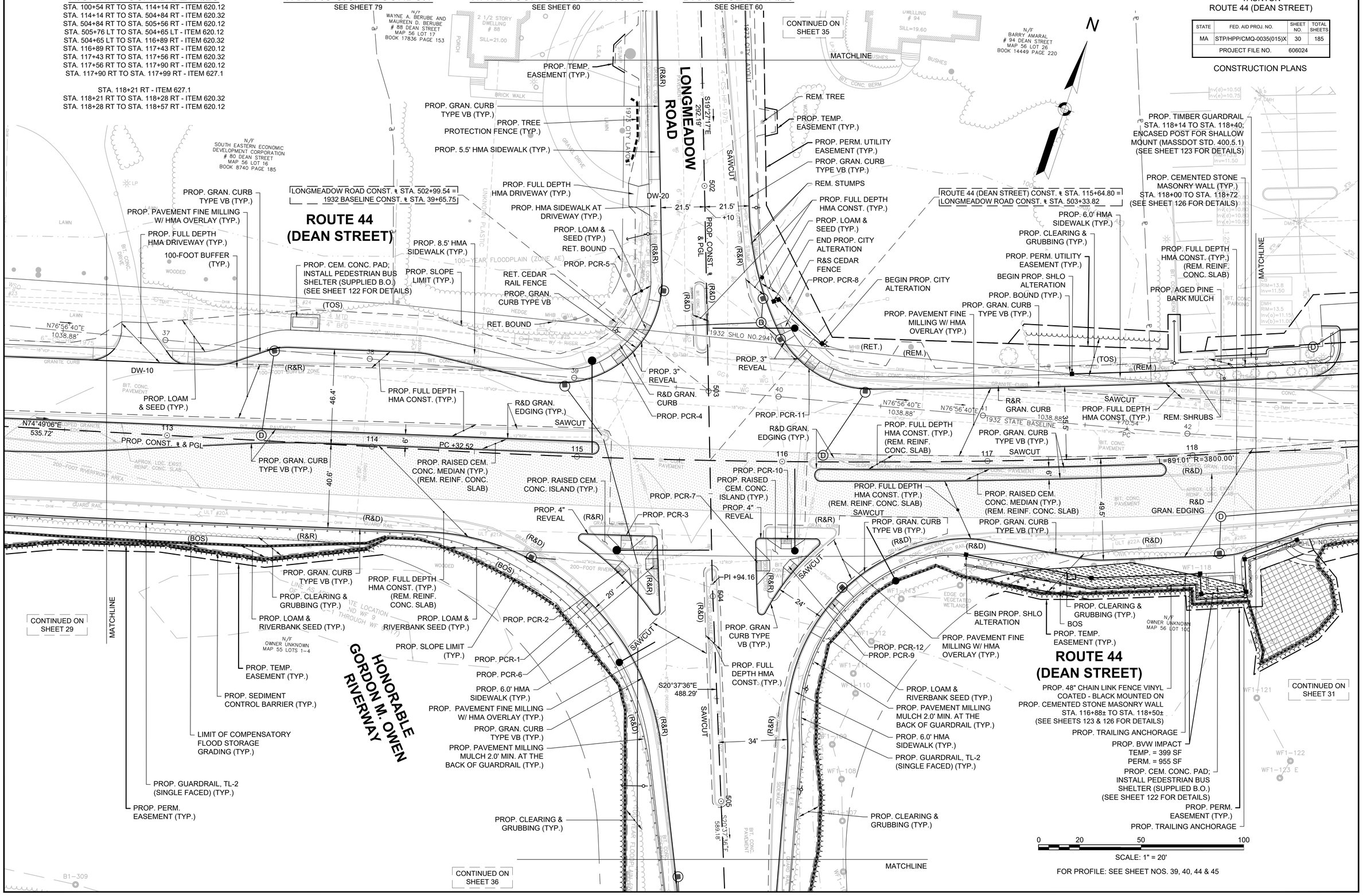
DRAINAGE DETAILS

SEE SHEET 60

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	30	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS

STA. 118+28 RT TO STA. 118+57 RT - ITEM 620.12
STA. 118+57 RT TO STA. 118+65 RT - ITEM 620.32
STA. 118+65 RT TO STA. 118+95 RT - ITEM 620.12
STA. 118+95 RT TO STA. 119+04 RT - ITEM 627.1

STA. 120+79 RT TO STA. 120+91 RT- ITEM 627.82
STA. 120+91 RT TO STA. 121+29 RT - ITEM 620.12
STA. 121+29 RT TO STA. 121+38 RT - ITEM 627.1

STA. 121+20 LT TO STA. 121+29 LT - ITEM 627.1
STA. 121+29 LT TO STA. 122+34 LT - ITEM 620.12
STA. 122+34 LT TO STA. 122+46 LT - ITEM 627.82

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 61

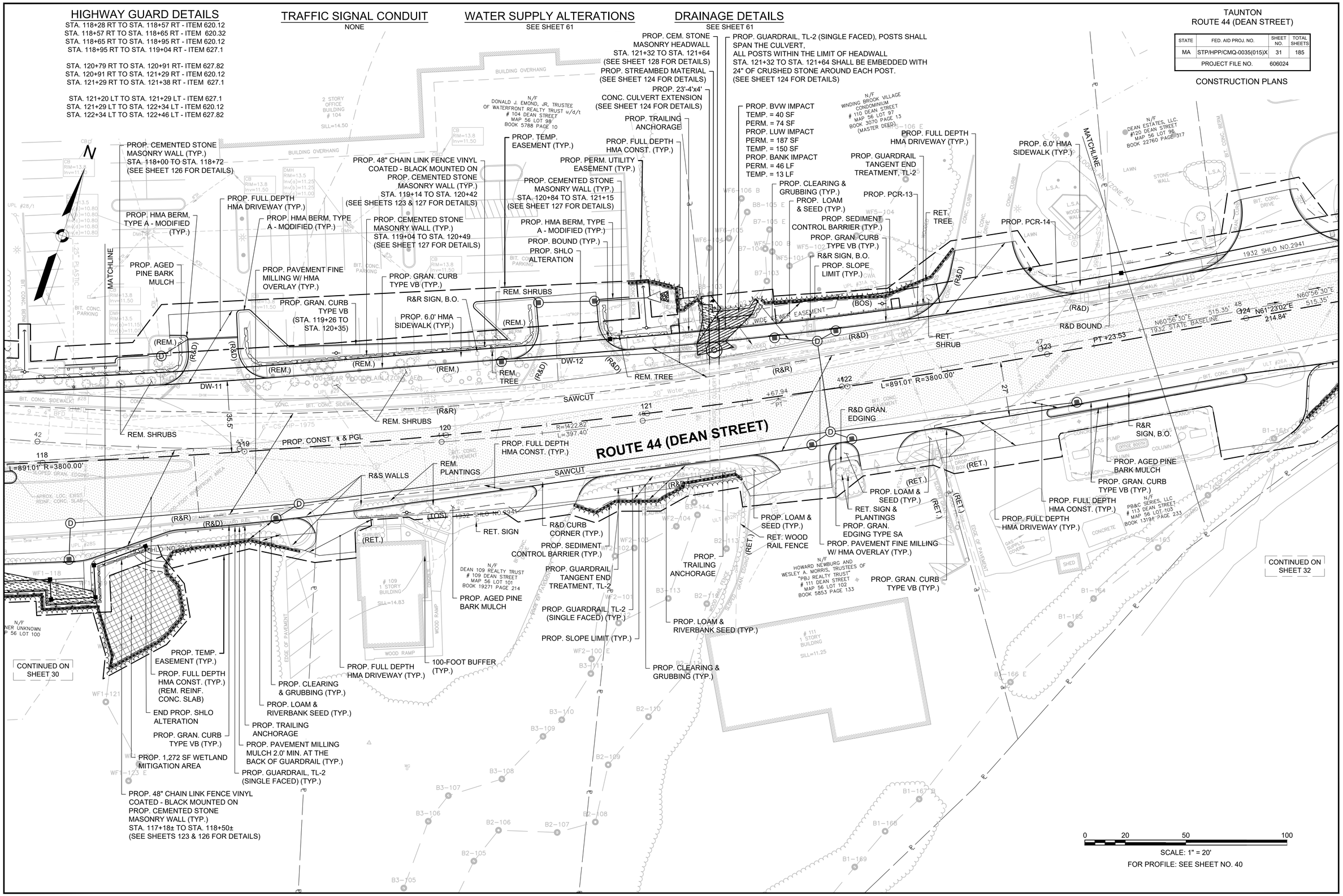
DRAINAGE DETAILS

SEE SHEET 61

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	31	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS

STA. 124+12 RT TO STA. 124+21 RT - ITEM 620.32
STA. 124+21 RT TO STA. 124+24 RT - ITEM 620.12
STA. 124+24 RT TO STA. 124+35 RT - ITEM 620.32
STA. 124+35 RT TO STA. 124+68 RT - ITEM 628.24

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

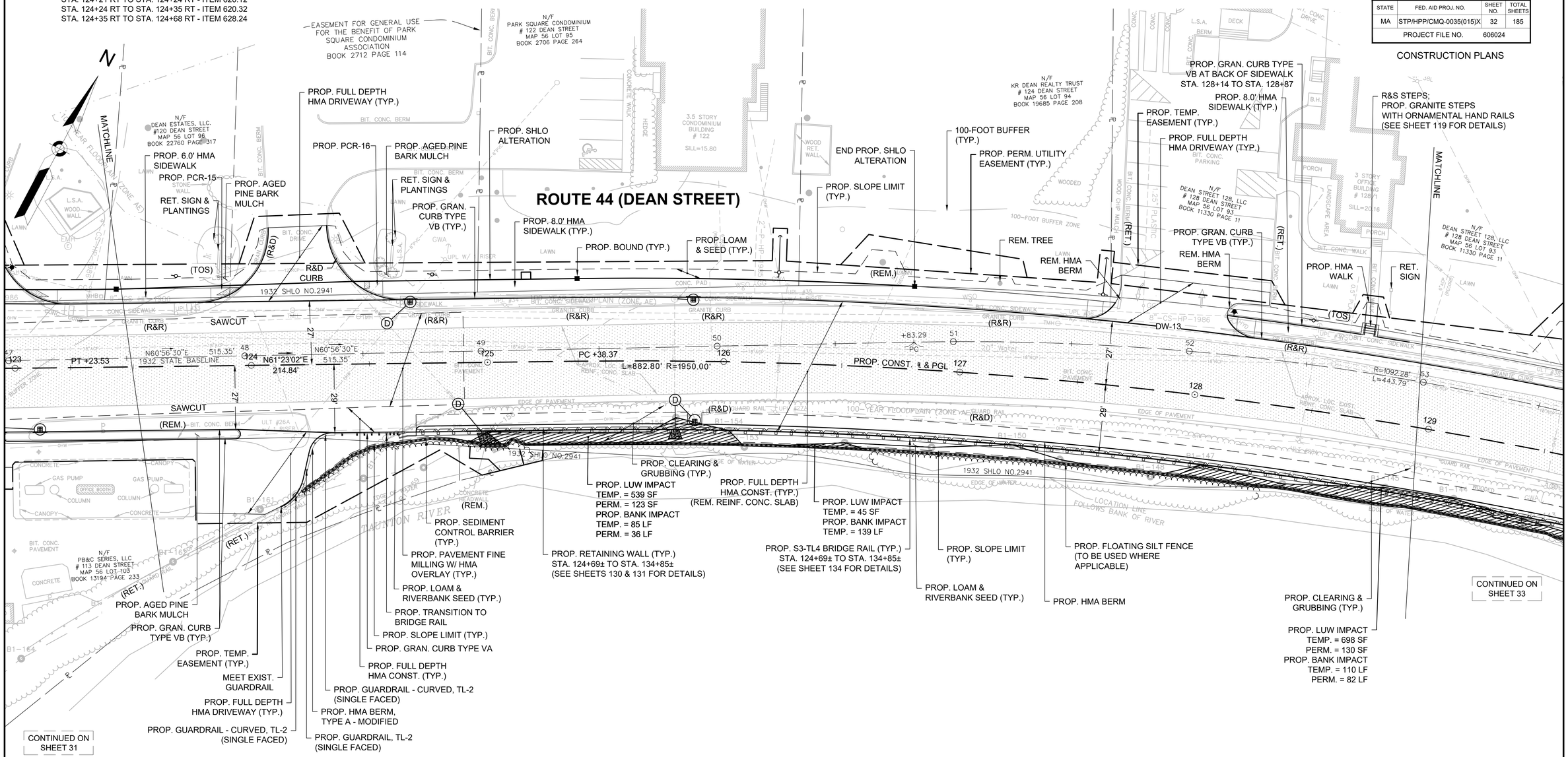
DRAINAGE DETAILS

SEE SHEET 62

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	32	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



0 20 50 100

SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NOS. 40 & 41

606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

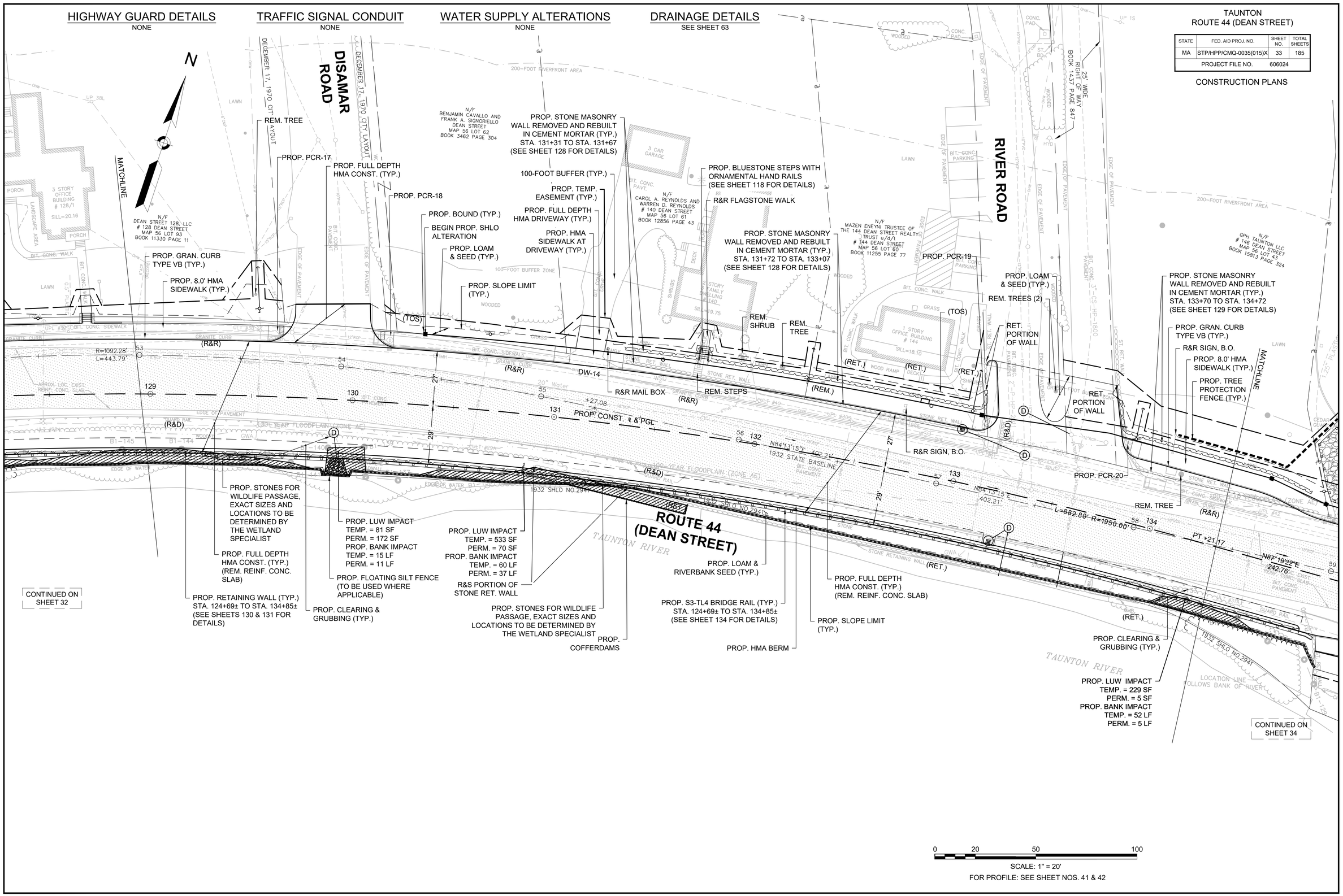
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 63

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	33	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

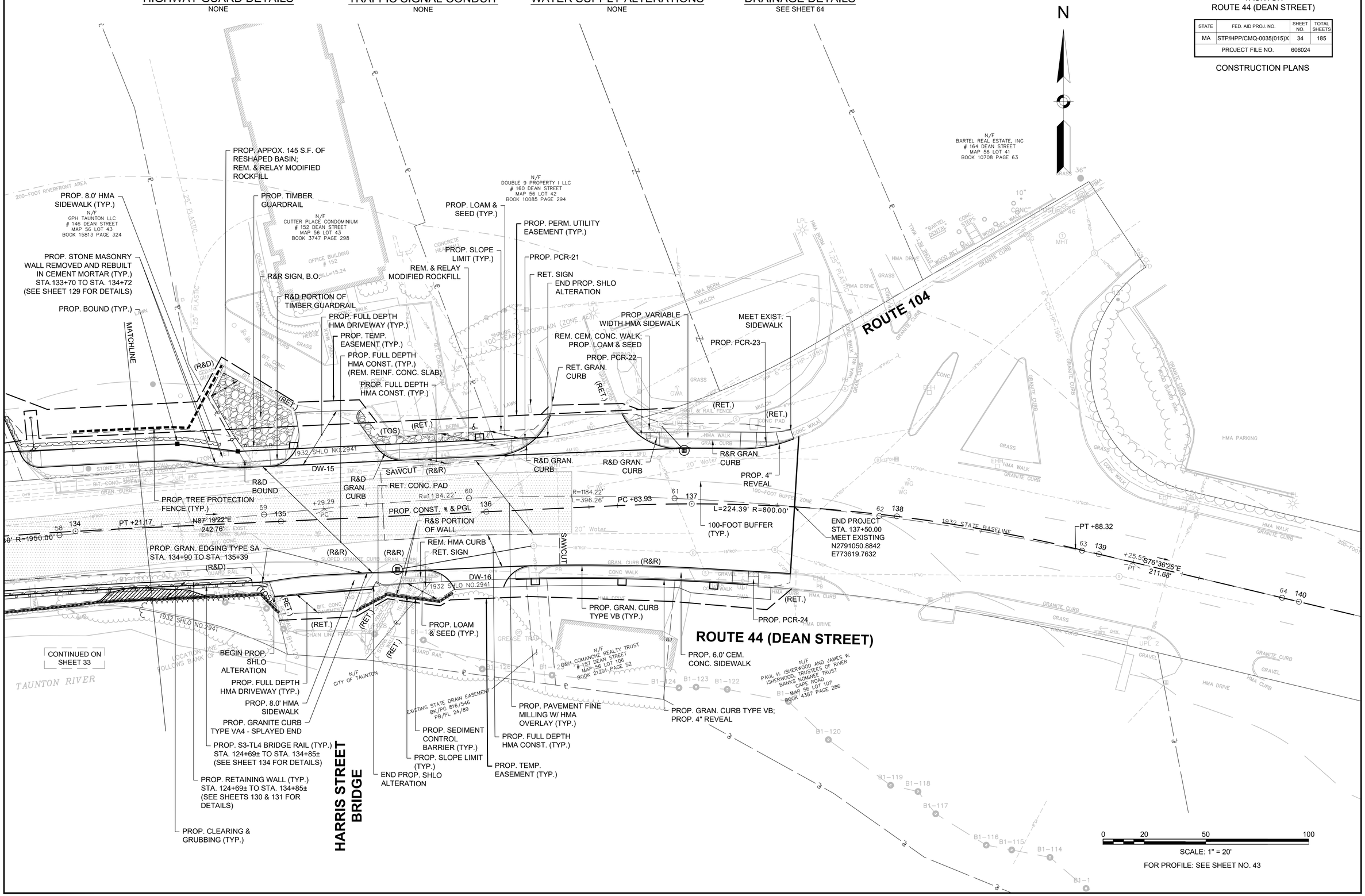
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 64

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	34	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:42 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

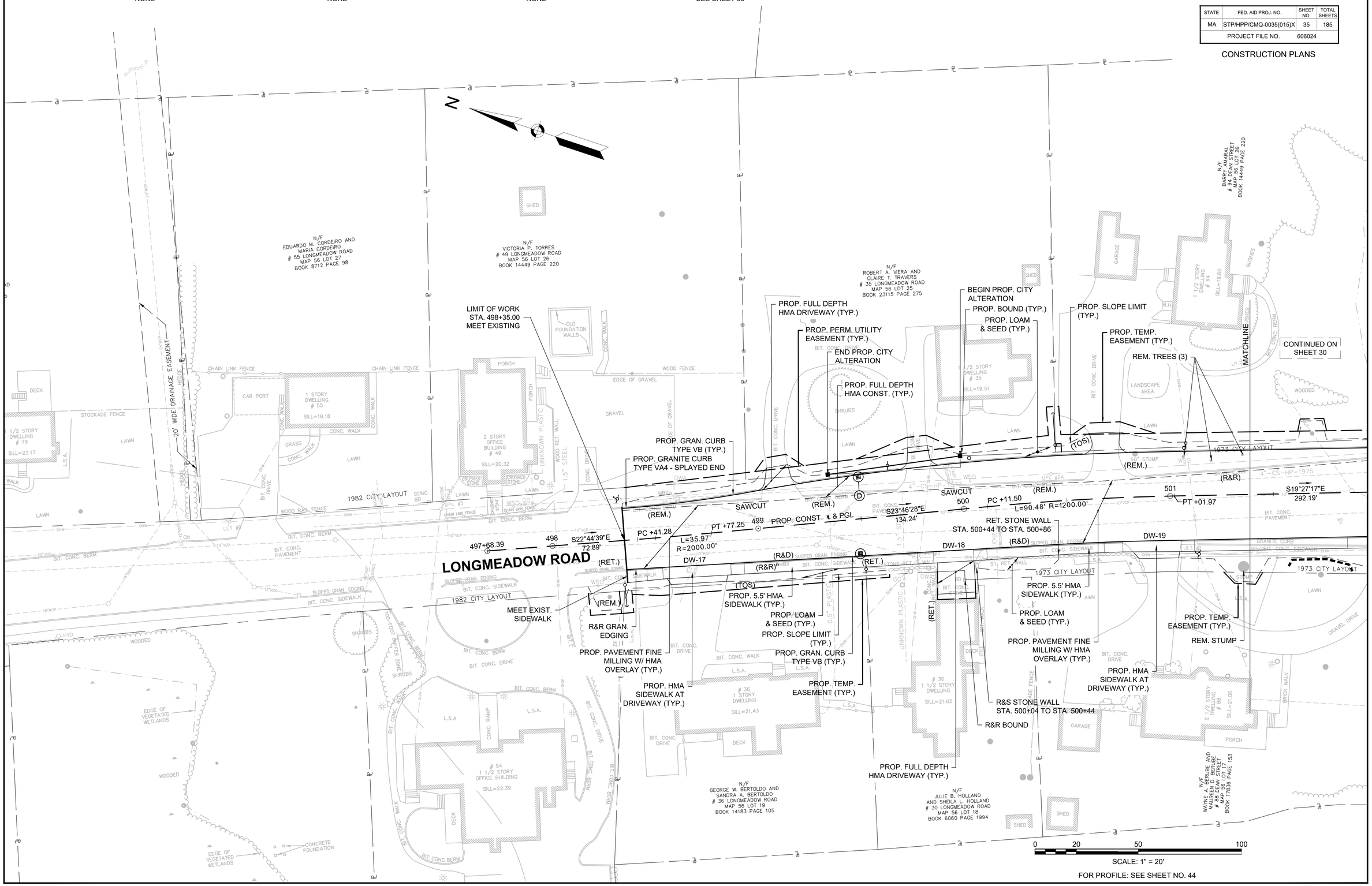
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 65

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	35	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. 44

606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:43 PM

HIGHWAY GUARD DETAILS

STA. 504+65 LT TO STA. 505+77 LT - ITEM 620.12
STA. 505+77 LT TO STA. 506+10 LT - ITEM 628.24
STA. 504+84 RT TO STA. 505+57 RT - ITEM 620.12
STA. 505+57 RT TO STA. 505+90 RT - ITEM 628.24

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

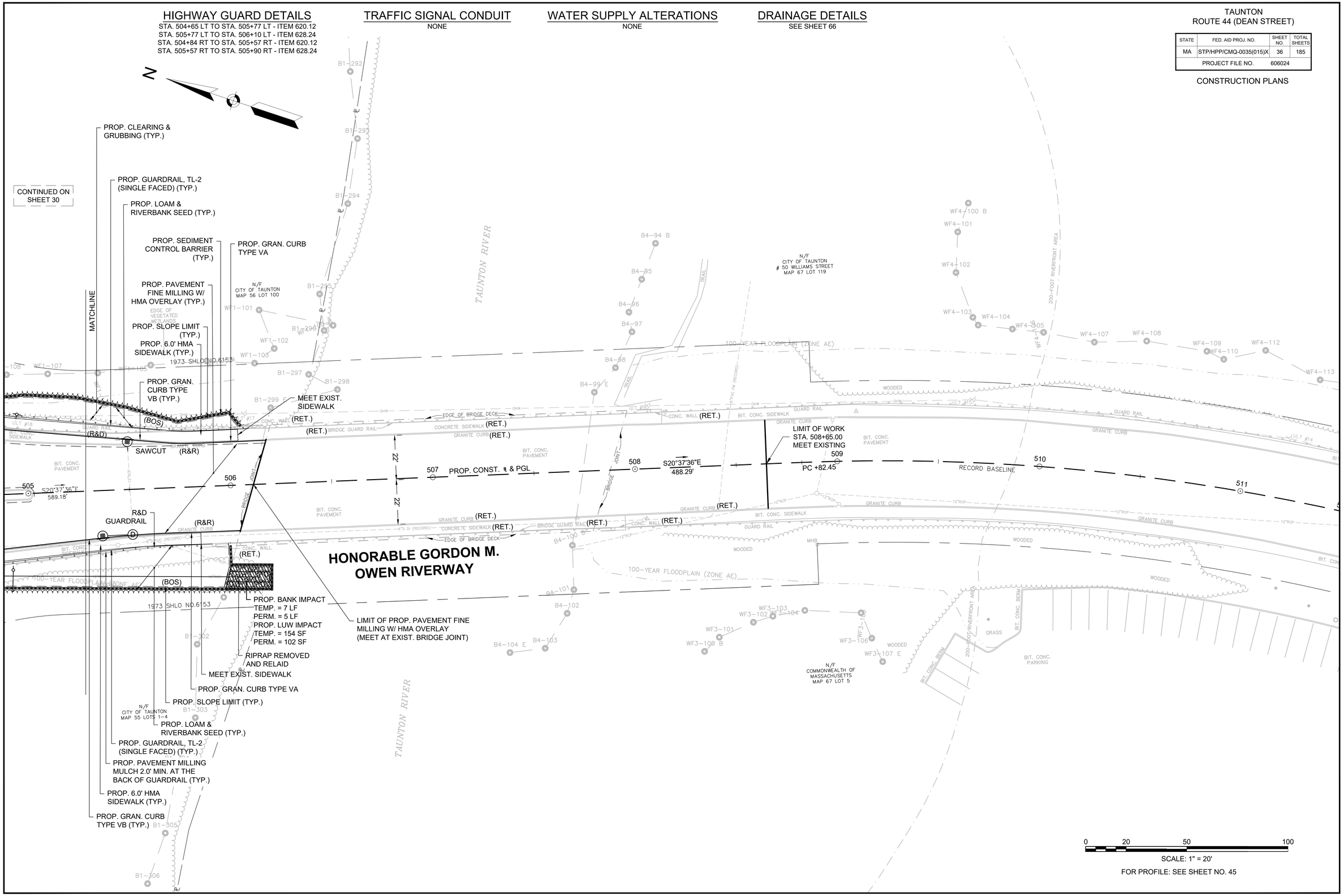
DRAINAGE DETAILS

SEE SHEET 66

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	36	185
PROJECT FILE NO.	606024		

CONSTRUCTION PLANS



FOR PROFILE: SEE SHEET NO. 45

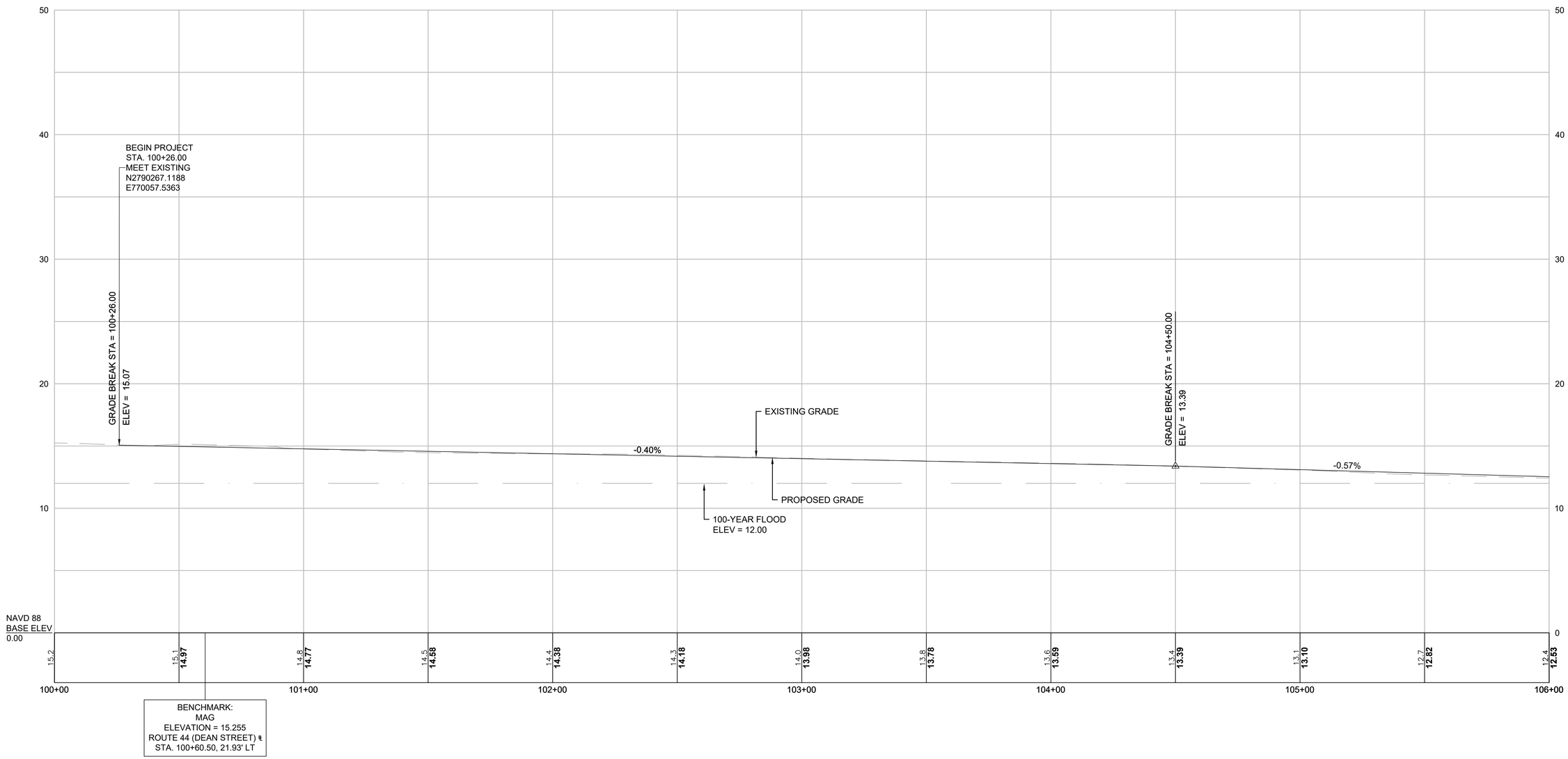
606024_HD_(CO).DWG Plotted on 26-Aug-2022 5:43 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	37	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 38



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 27 & 28

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:43 PM

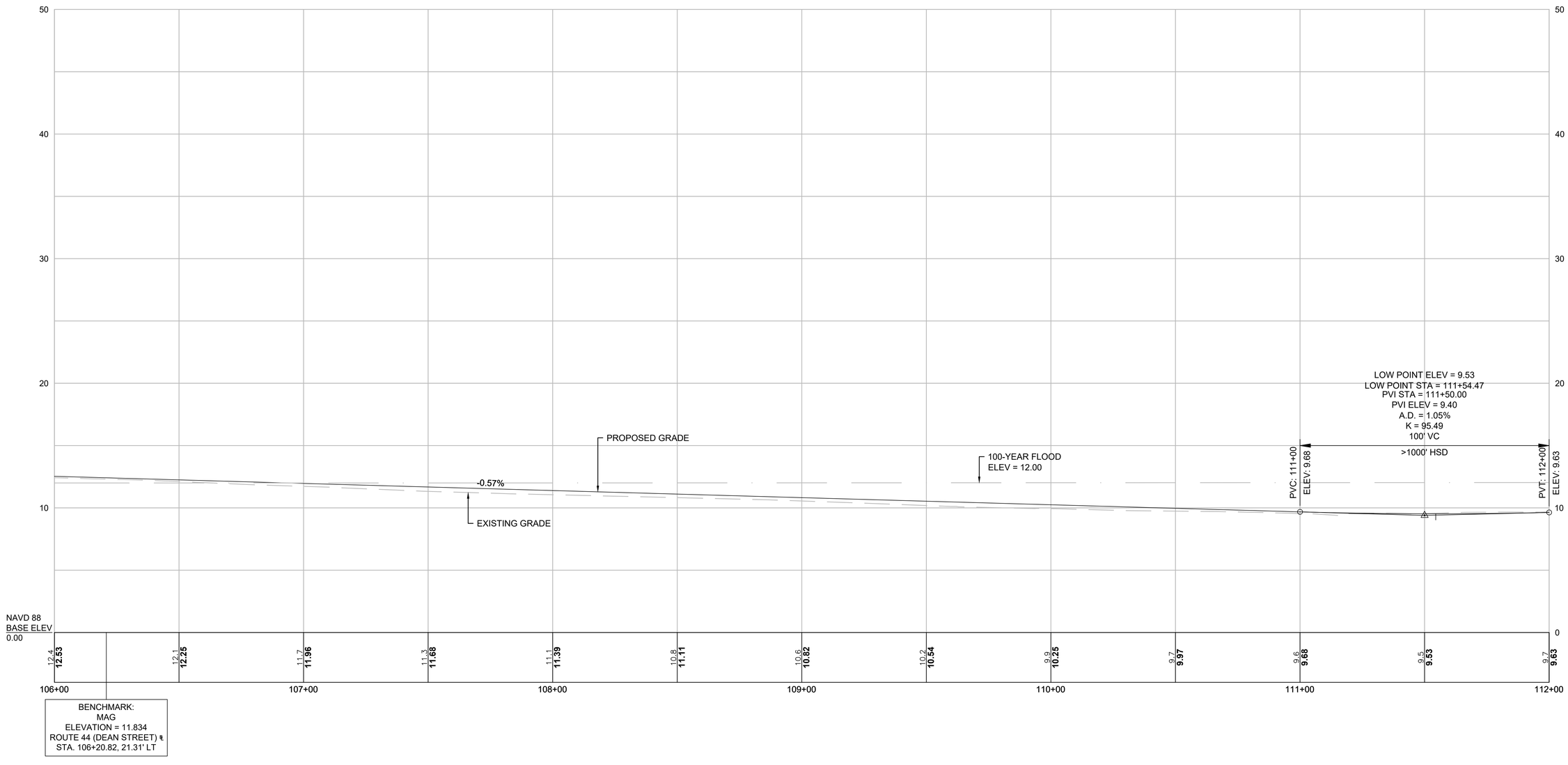
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	38	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 37

CONTINUED ON SHEET 39



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 28 & 29

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:43 PM

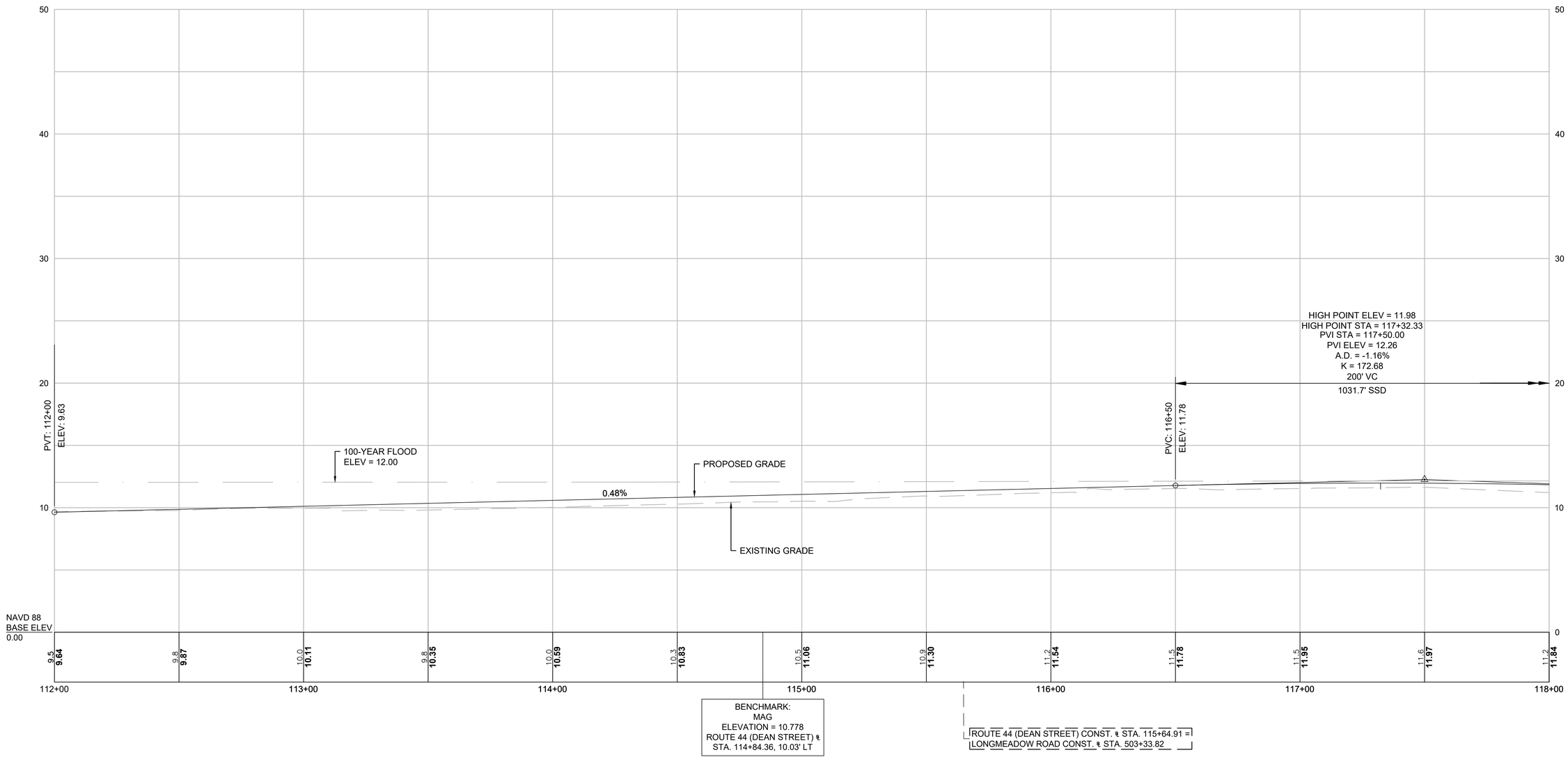
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	39	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 38

CONTINUED ON SHEET 40



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 29 & 30

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:43 PM

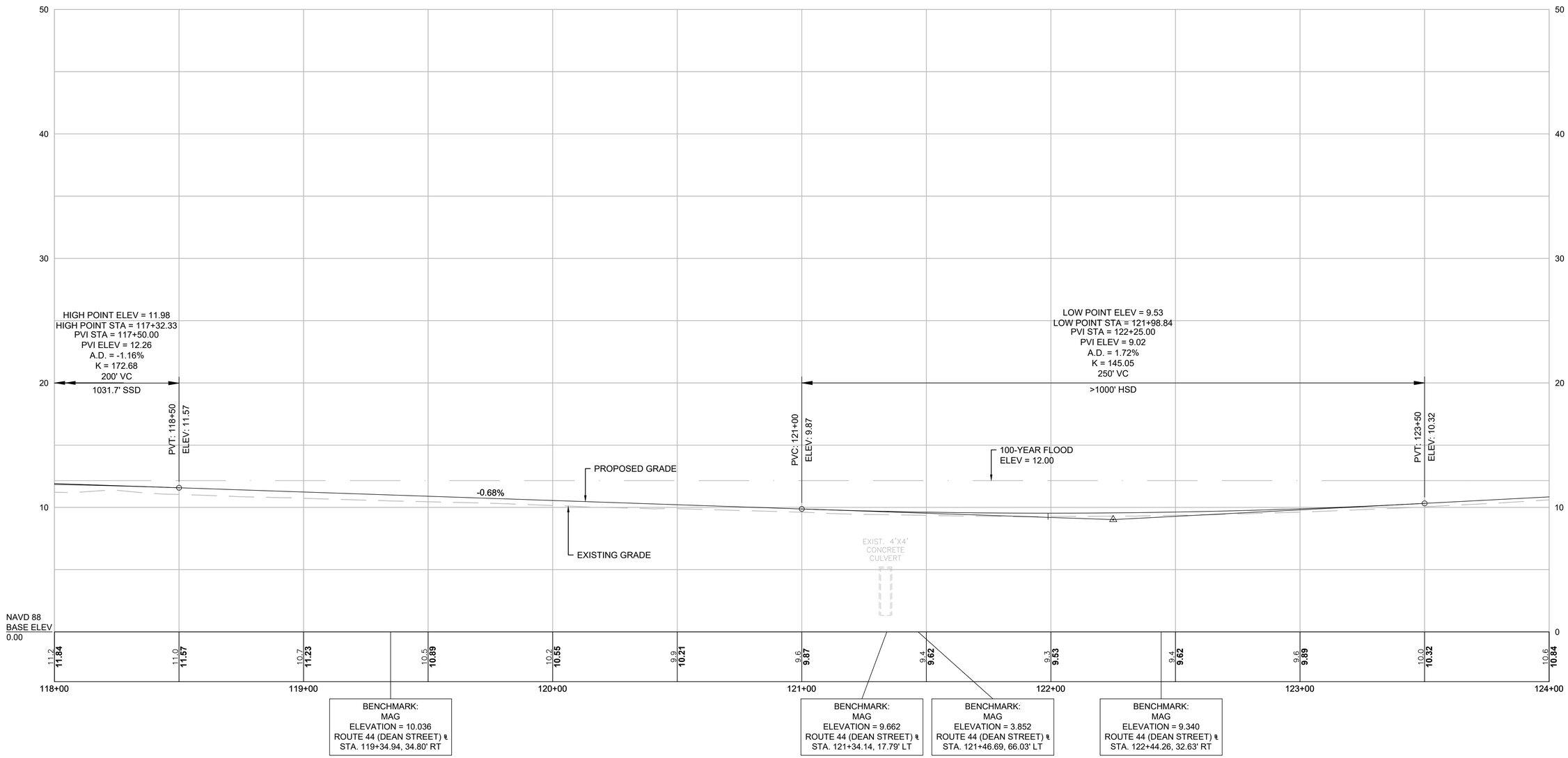
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	40	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 39

CONTINUED ON SHEET 41



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 30, 31 & 32

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:43 PM

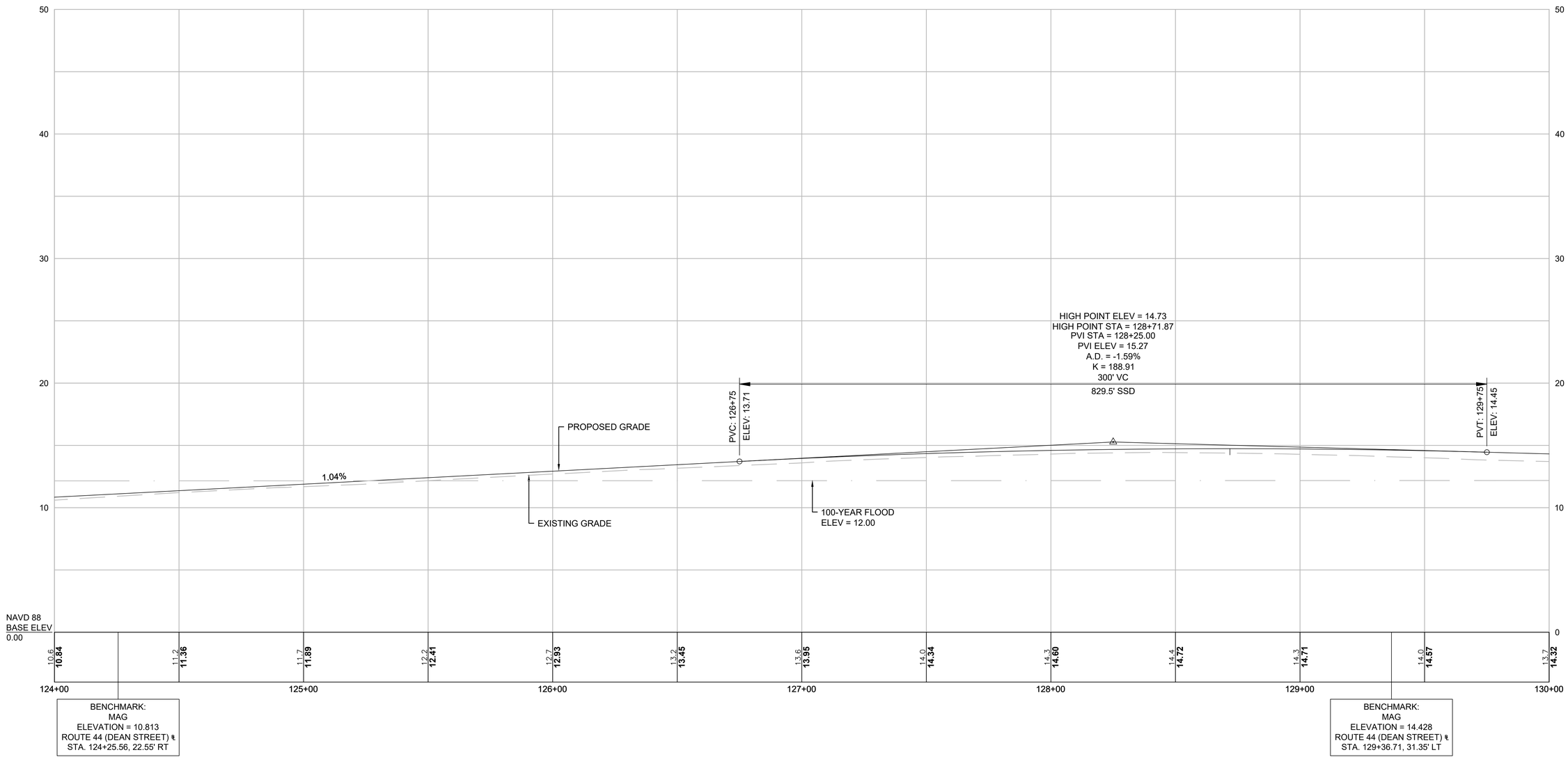
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	41	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 40

CONTINUED ON SHEET 42



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 32 & 33

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:43 PM

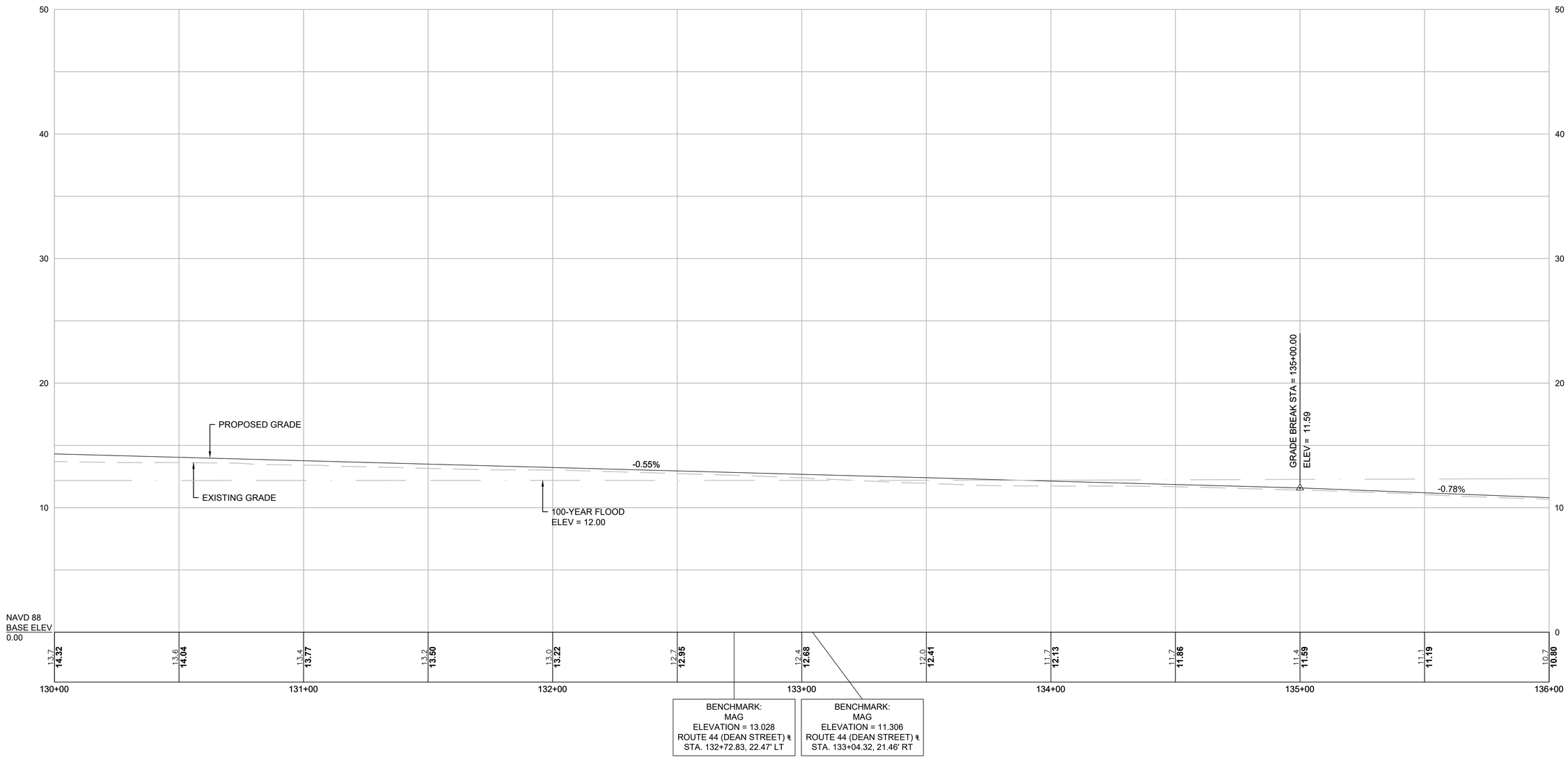
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	42	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 41

CONTINUED ON SHEET 43



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 33 & 34

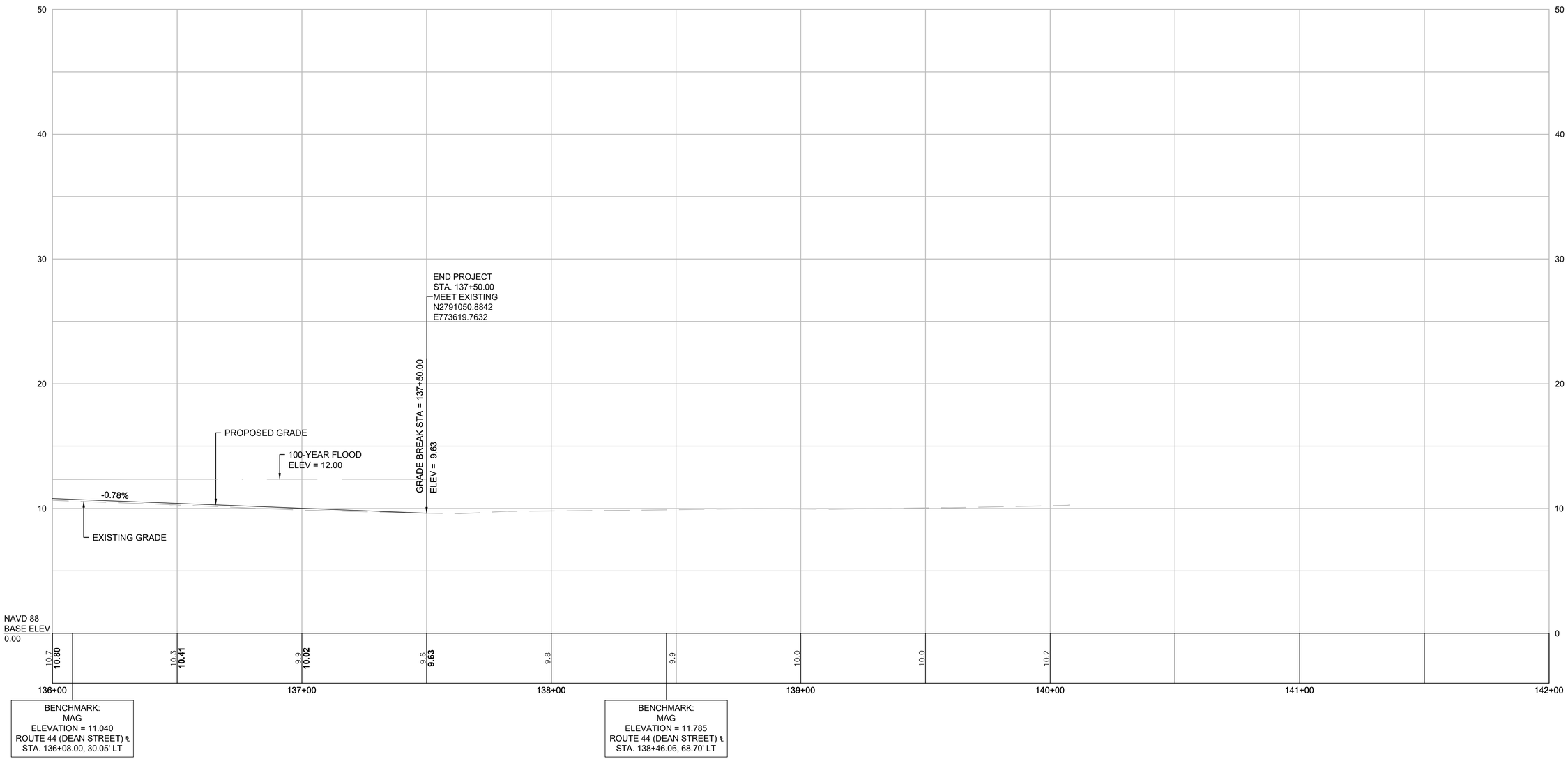
606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:44 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	43	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 42



ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 34

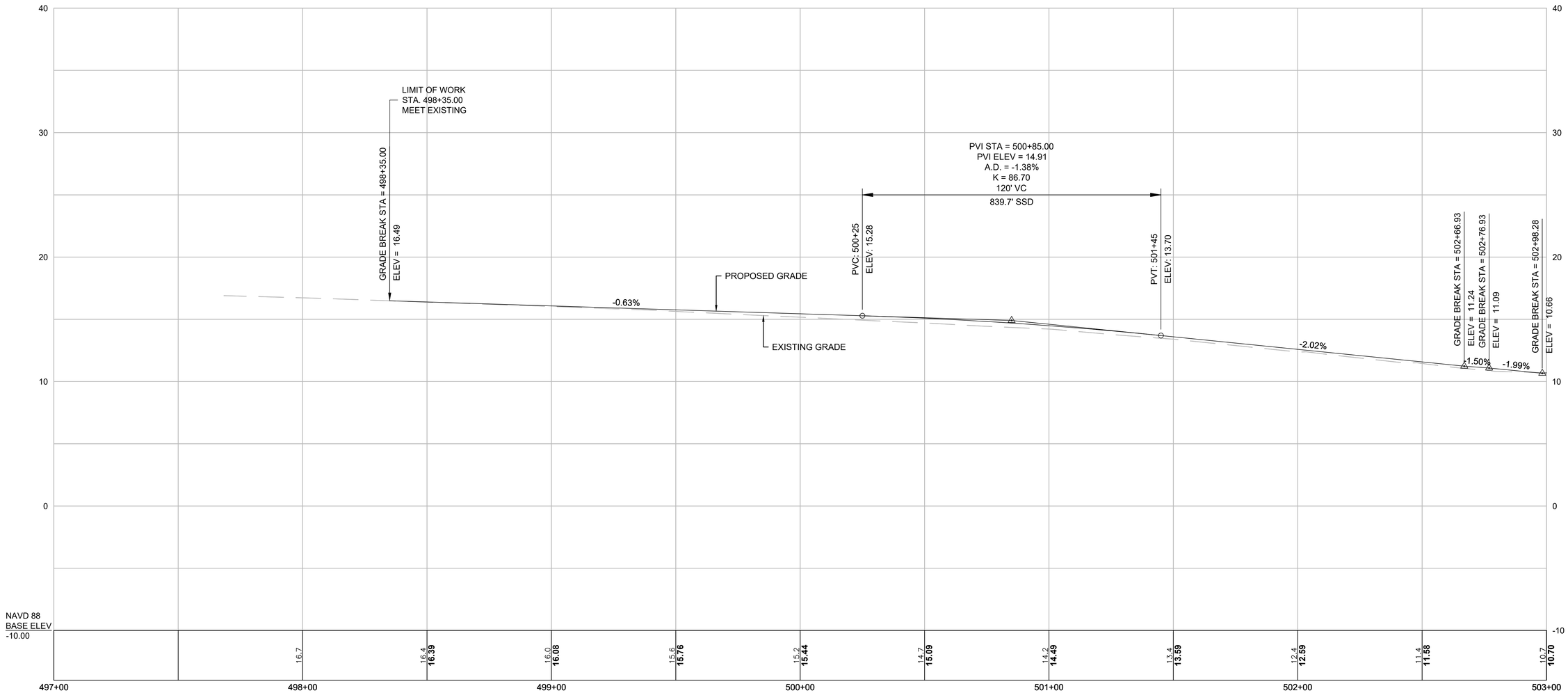
606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:44 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	44	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 45



LONGMEADOW ROAD

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 30 & 35

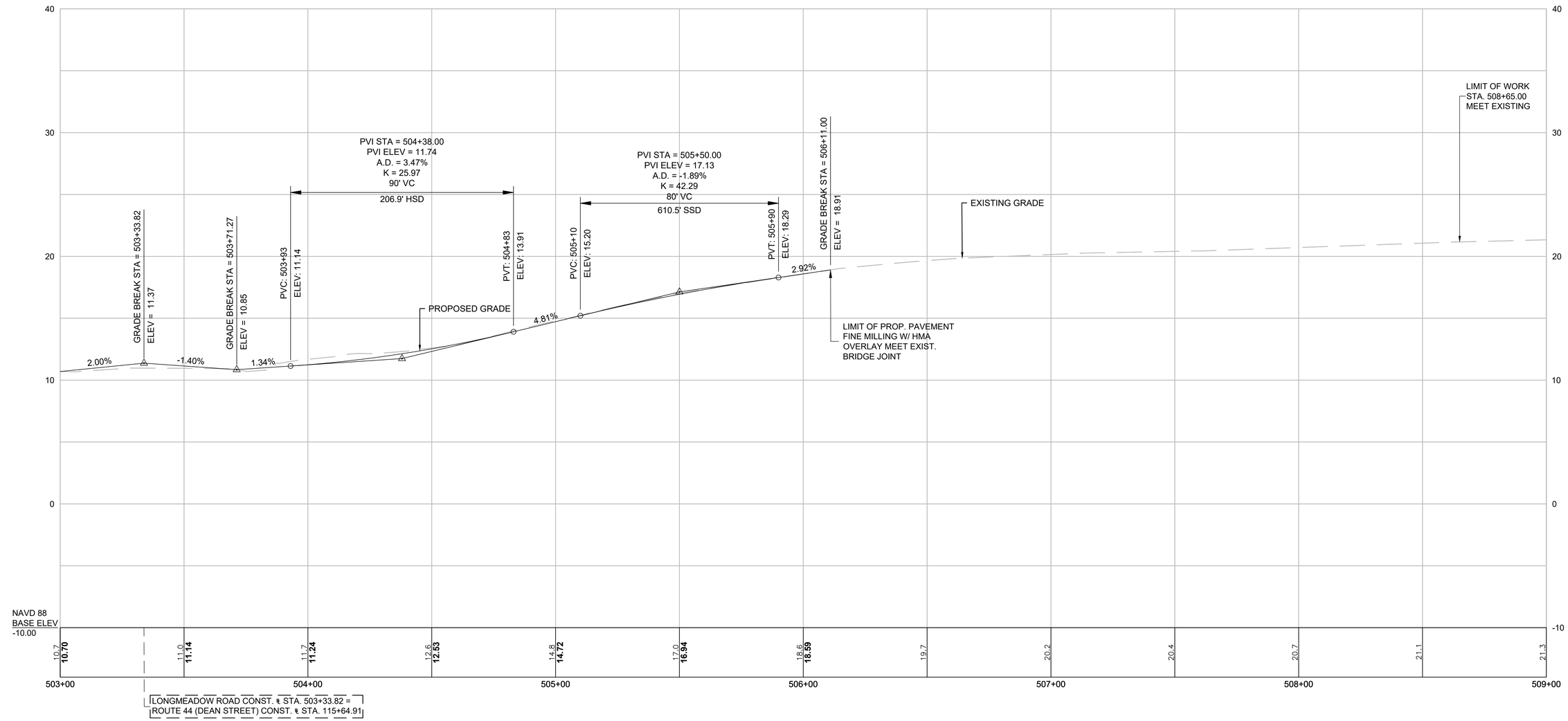
606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:44 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	45	185
PROJECT FILE NO.	606024		

CONSTRUCTION PROFILES

CONTINUED ON SHEET 44



HONORABLE GORDON M. OWEN RIVERWAY

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS: SEE SHEET NOS. 30 & 36

606024_HD_(PR).DWG Plotted on 26-Aug-2022 5:44 PM

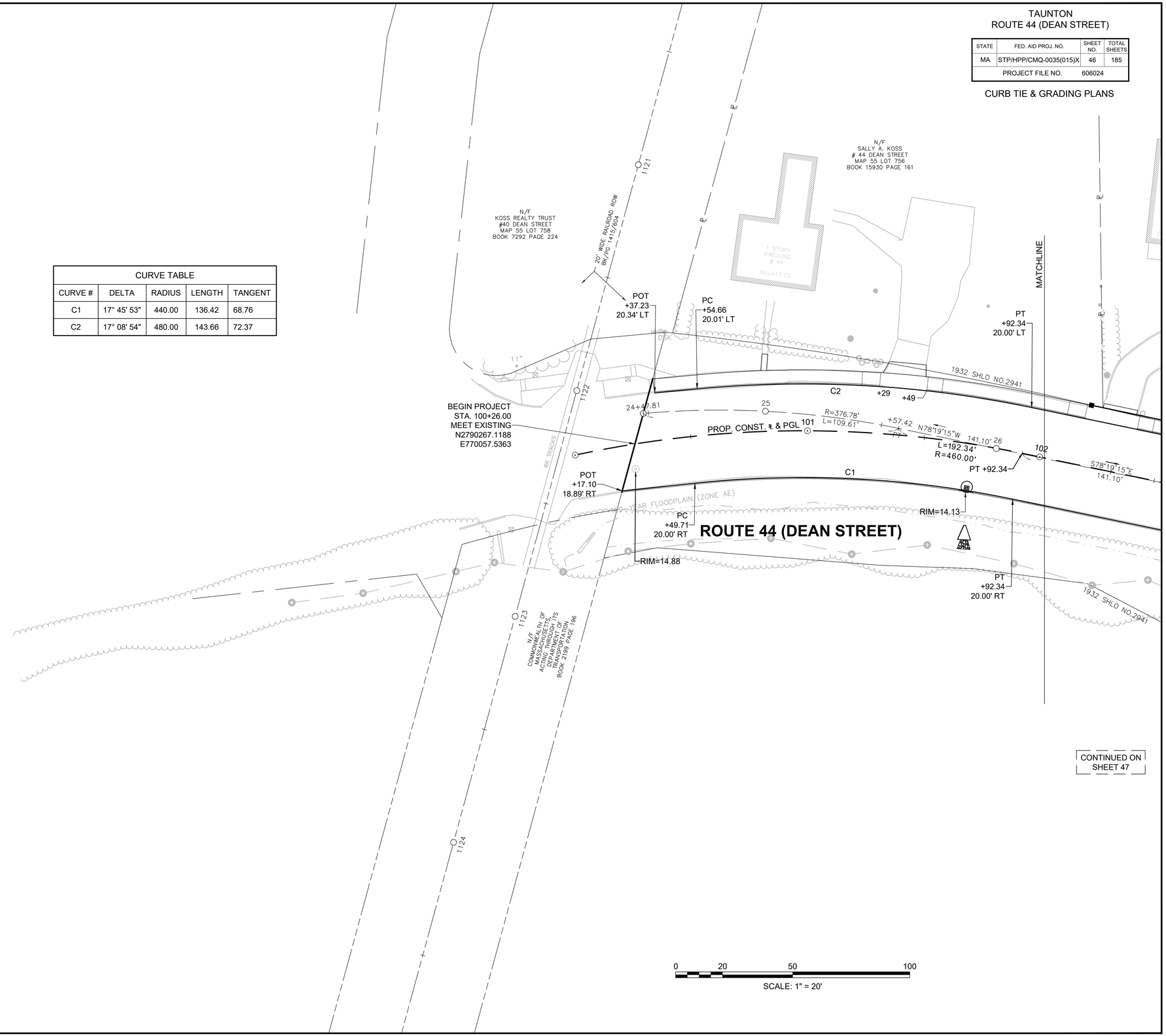
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	46	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS

N

CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C1	17° 45' 53"	440.00	136.42	68.76
C2	17° 08' 54"	480.00	143.66	72.37



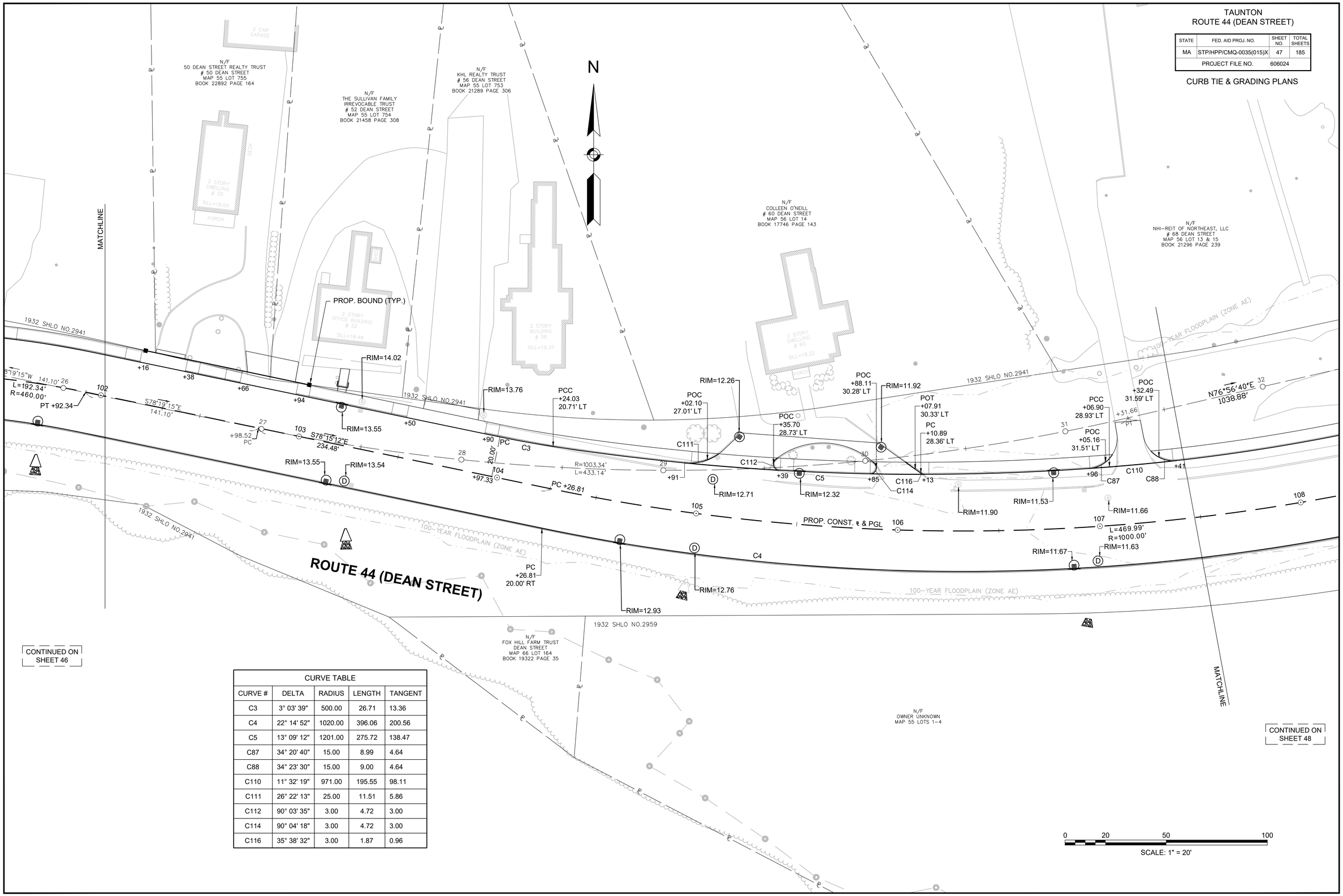
CONTINUED ON SHEET 47

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:44 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	47	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



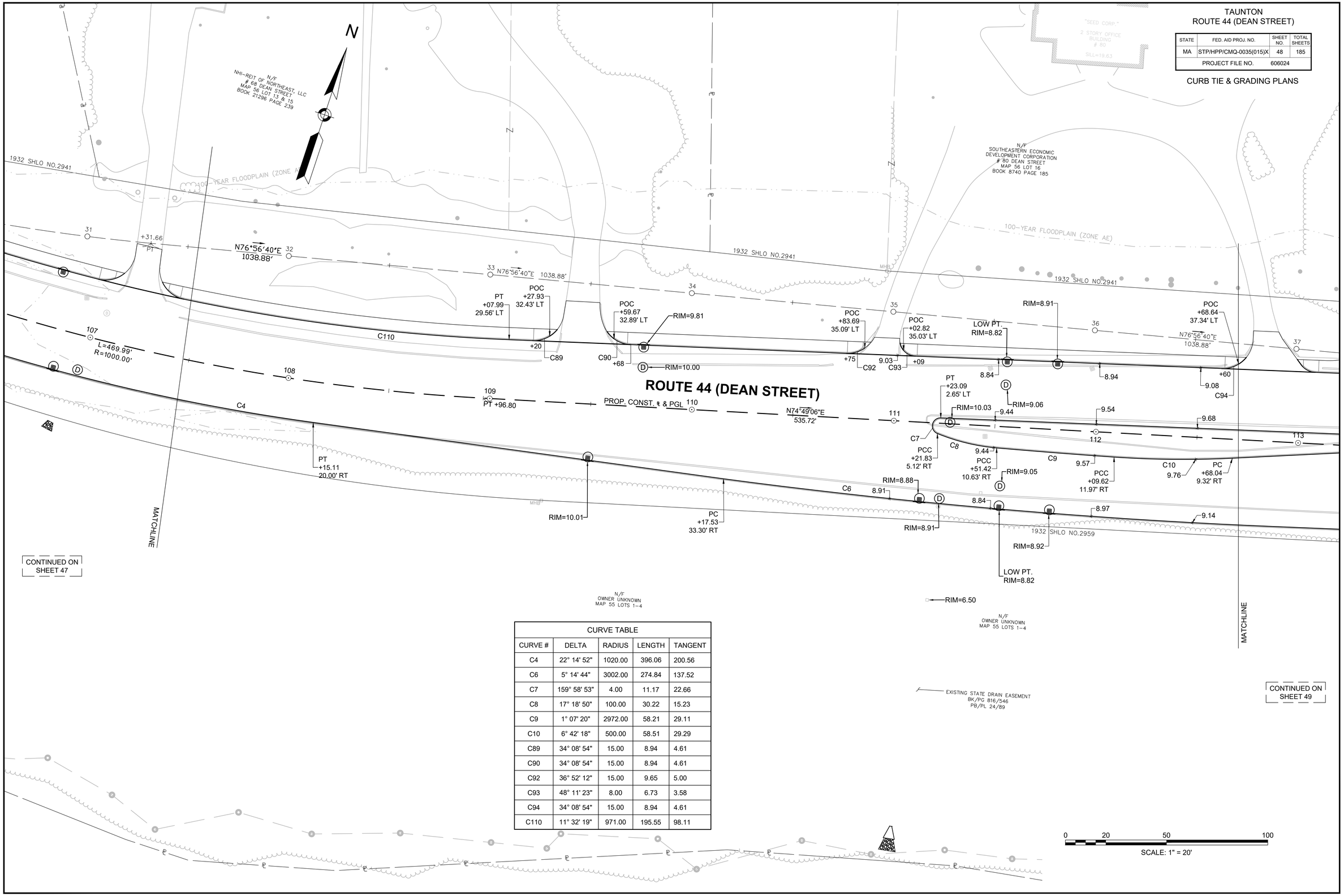
CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C3	3° 03' 39"	500.00	26.71	13.36
C4	22° 14' 52"	1020.00	396.06	200.56
C5	13° 09' 12"	1201.00	275.72	138.47
C87	34° 20' 40"	15.00	8.99	4.64
C88	34° 23' 30"	15.00	9.00	4.64
C110	11° 32' 19"	971.00	195.55	98.11
C111	26° 22' 13"	25.00	11.51	5.86
C112	90° 03' 35"	3.00	4.72	3.00
C114	90° 04' 18"	3.00	4.72	3.00
C116	35° 38' 32"	3.00	1.87	0.96

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:44 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	48	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C4	22° 14' 52"	1020.00	396.06	200.56
C6	5° 14' 44"	3002.00	274.84	137.52
C7	159° 58' 53"	4.00	11.17	22.66
C8	17° 18' 50"	100.00	30.22	15.23
C9	1° 07' 20"	2972.00	58.21	29.11
C10	6° 42' 18"	500.00	58.51	29.29
C89	34° 08' 54"	15.00	8.94	4.61
C90	34° 08' 54"	15.00	8.94	4.61
C92	36° 52' 12"	15.00	9.65	5.00
C93	48° 11' 23"	8.00	6.73	3.58
C94	34° 08' 54"	15.00	8.94	4.61
C110	11° 32' 19"	971.00	195.55	98.11

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:45 PM

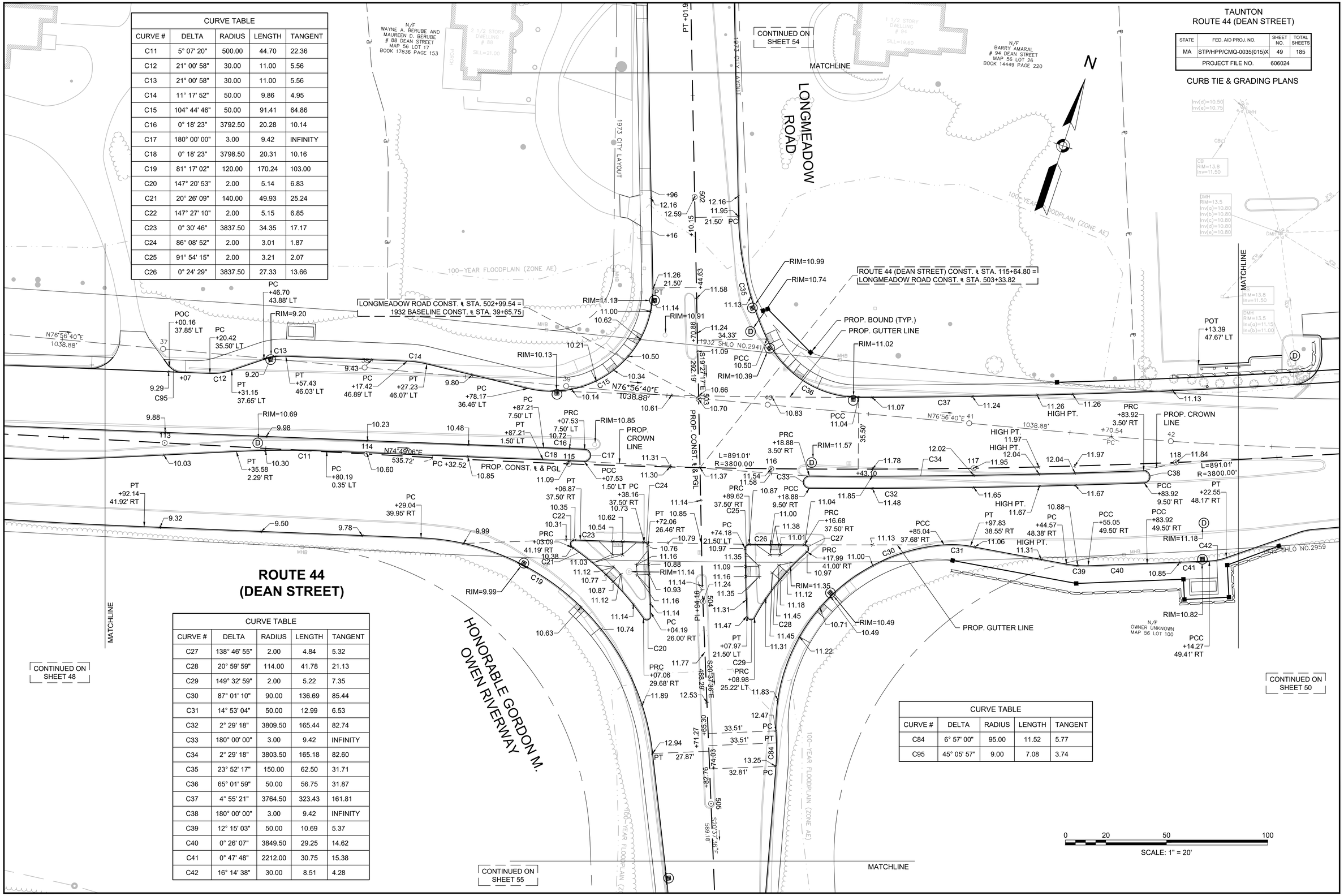
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	49	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:45 PM

CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C11	5° 07' 20"	500.00	44.70	22.36
C12	21° 00' 58"	30.00	11.00	5.56
C13	21° 00' 58"	30.00	11.00	5.56
C14	11° 17' 52"	50.00	9.86	4.95
C15	104° 44' 46"	50.00	91.41	64.86
C16	0° 18' 23"	3792.50	20.28	10.14
C17	180° 00' 00"	3.00	9.42	INFINITY
C18	0° 18' 23"	3798.50	20.31	10.16
C19	81° 17' 02"	120.00	170.24	103.00
C20	147° 20' 53"	2.00	5.14	6.83
C21	20° 26' 09"	140.00	49.93	25.24
C22	147° 27' 10"	2.00	5.15	6.85
C23	0° 30' 46"	3837.50	34.35	17.17
C24	86° 08' 52"	2.00	3.01	1.87
C25	91° 54' 15"	2.00	3.21	2.07
C26	0° 24' 29"	3837.50	27.33	13.66



ROUTE 44 (DEAN STREET)

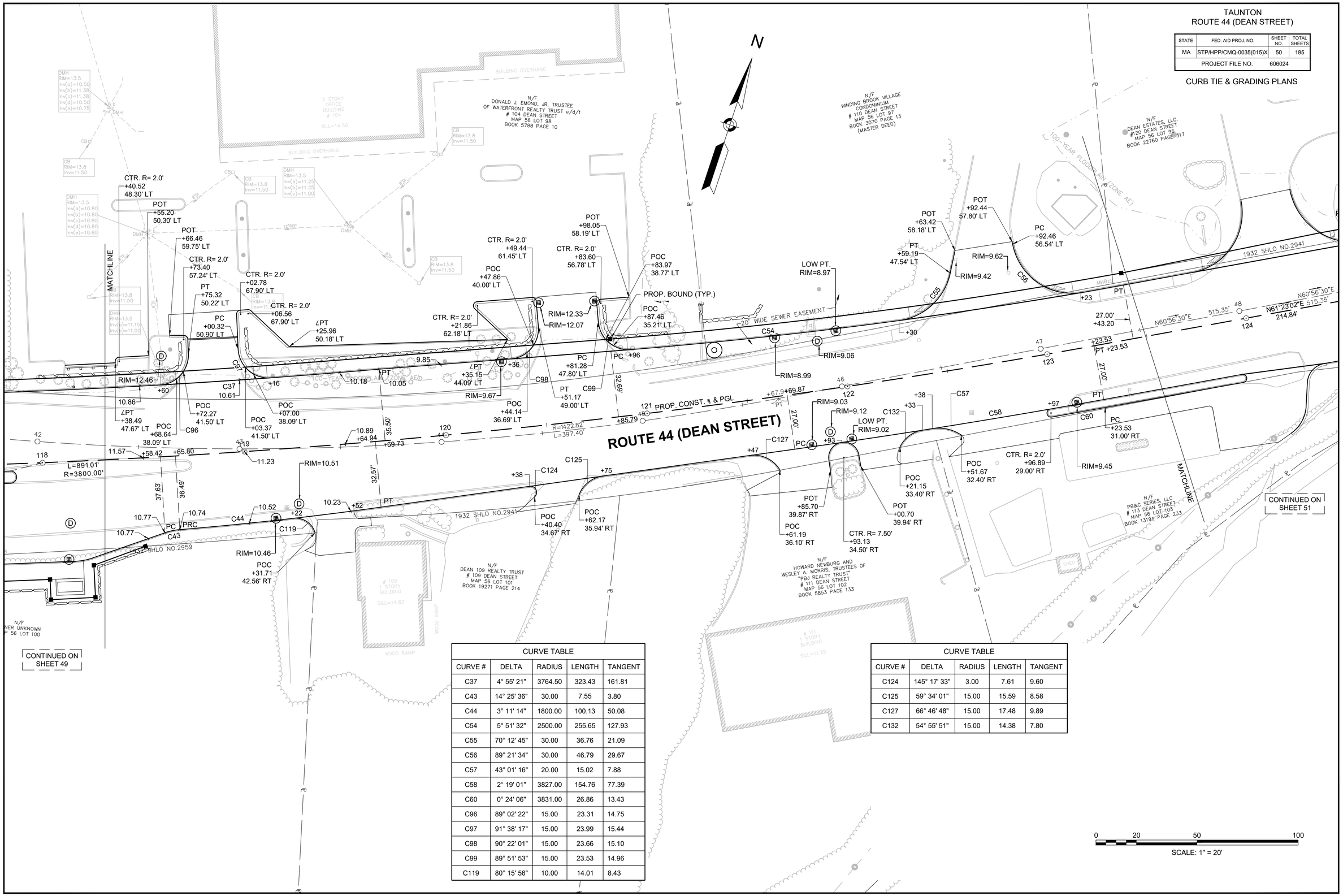
CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C27	138° 46' 55"	2.00	4.84	5.32
C28	20° 59' 59"	114.00	41.78	21.13
C29	149° 32' 59"	2.00	5.22	7.35
C30	87° 01' 10"	90.00	136.69	85.44
C31	14° 53' 04"	50.00	12.99	6.53
C32	2° 29' 18"	3809.50	165.44	82.74
C33	180° 00' 00"	3.00	9.42	INFINITY
C34	2° 29' 18"	3803.50	165.18	82.60
C35	23° 52' 17"	150.00	62.50	31.71
C36	65° 01' 59"	50.00	56.75	31.87
C37	4° 55' 21"	3764.50	323.43	161.81
C38	180° 00' 00"	3.00	9.42	INFINITY
C39	12° 15' 03"	50.00	10.69	5.37
C40	0° 26' 07"	3849.50	29.25	14.62
C41	0° 47' 48"	2212.00	30.75	15.38
C42	16° 14' 38"	30.00	8.51	4.28

CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C84	6° 57' 00"	95.00	11.52	5.77
C95	45° 05' 57"	9.00	7.08	3.74

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	50	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C37	4° 55' 21"	3764.50	323.43	161.81
C43	14° 25' 36"	30.00	7.55	3.80
C44	3° 11' 14"	1800.00	100.13	50.08
C54	5° 51' 32"	2500.00	255.65	127.93
C55	70° 12' 45"	30.00	36.76	21.09
C56	89° 21' 34"	30.00	46.79	29.67
C57	43° 01' 16"	20.00	15.02	7.88
C58	2° 19' 01"	3827.00	154.76	77.39
C60	0° 24' 06"	3831.00	26.86	13.43
C96	89° 02' 22"	15.00	23.31	14.75
C97	91° 38' 17"	15.00	23.99	15.44
C98	90° 22' 01"	15.00	23.66	15.10
C99	89° 51' 53"	15.00	23.53	14.96
C119	80° 15' 56"	10.00	14.01	8.43

CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C124	145° 17' 33"	3.00	7.61	9.60
C125	59° 34' 01"	15.00	15.59	8.58
C127	66° 46' 48"	15.00	17.48	9.89
C132	54° 55' 51"	15.00	14.38	7.80

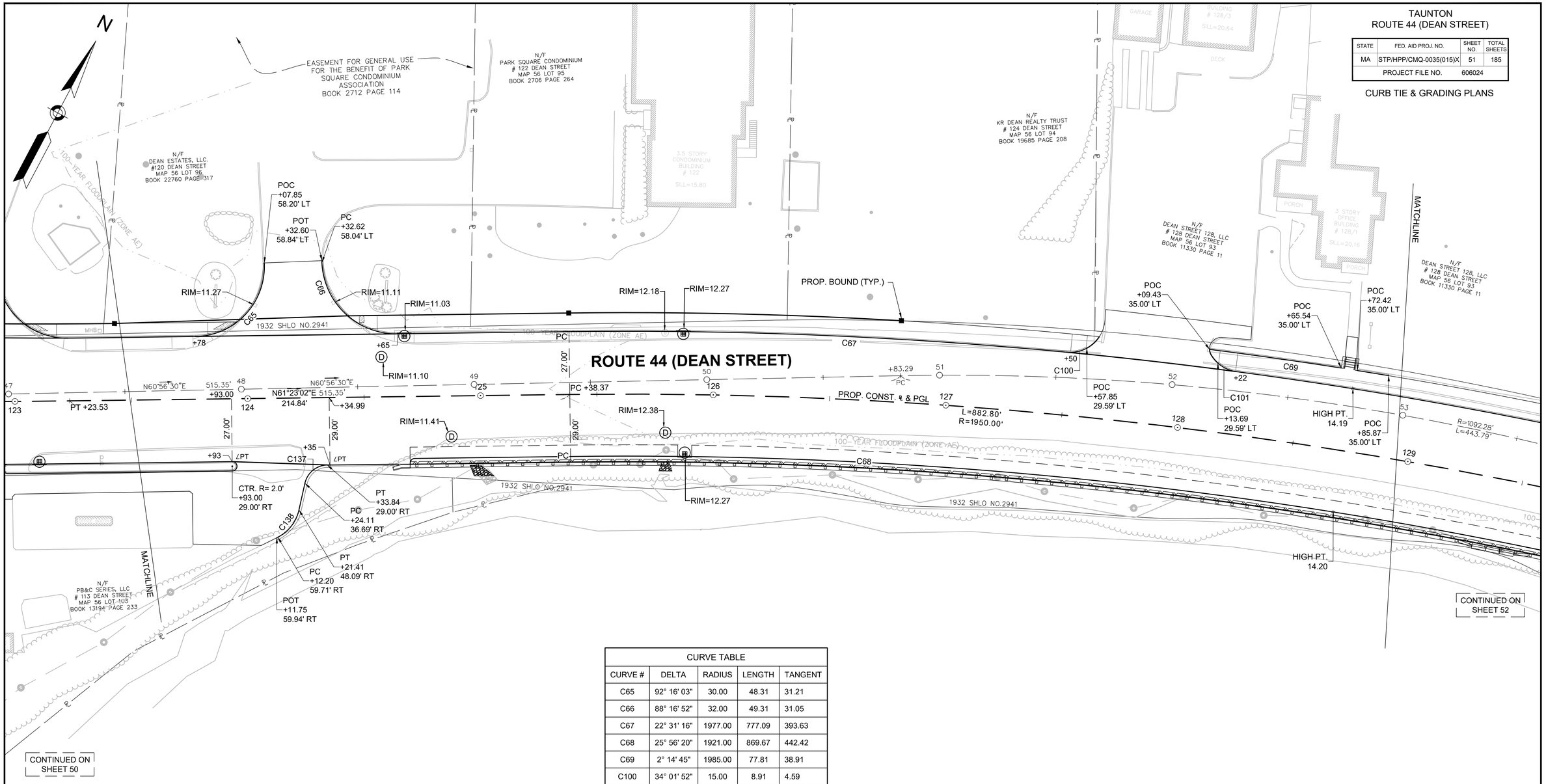
0 20 50 100
SCALE: 1" = 20'

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:45 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	51	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C65	92° 16' 03"	30.00	48.31	31.21
C66	88° 16' 52"	32.00	49.31	31.05
C67	22° 31' 16"	1977.00	777.09	393.63
C68	25° 56' 20"	1921.00	869.67	442.42
C69	2° 14' 45"	1985.00	77.81	38.91
C100	34° 01' 52"	15.00	8.91	4.59
C101	34° 01' 52"	15.00	8.91	4.59
C137	76° 39' 27"	10.00	13.38	7.91
C138	50° 06' 12"	17.50	15.30	8.18

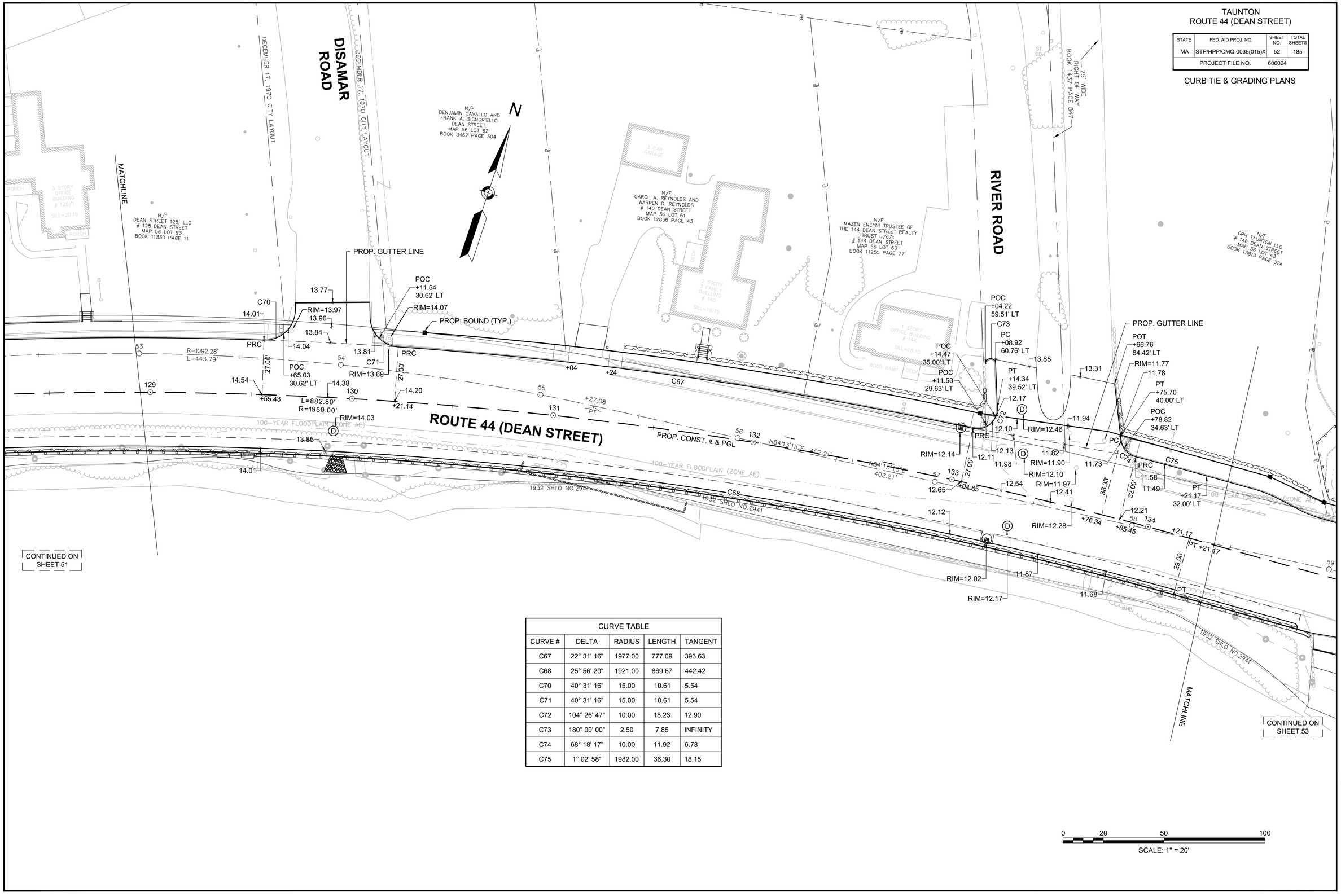
0 20 50 100
SCALE: 1" = 20'

606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:45 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	52	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C67	22° 31' 16"	1977.00	777.09	393.63
C68	25° 56' 20"	1921.00	869.67	442.42
C70	40° 31' 16"	15.00	10.61	5.54
C71	40° 31' 16"	15.00	10.61	5.54
C72	104° 26' 47"	10.00	18.23	12.90
C73	180° 00' 00"	2.50	7.85	INFINITY
C74	68° 18' 17"	10.00	11.92	6.78
C75	1° 02' 58"	1982.00	36.30	18.15

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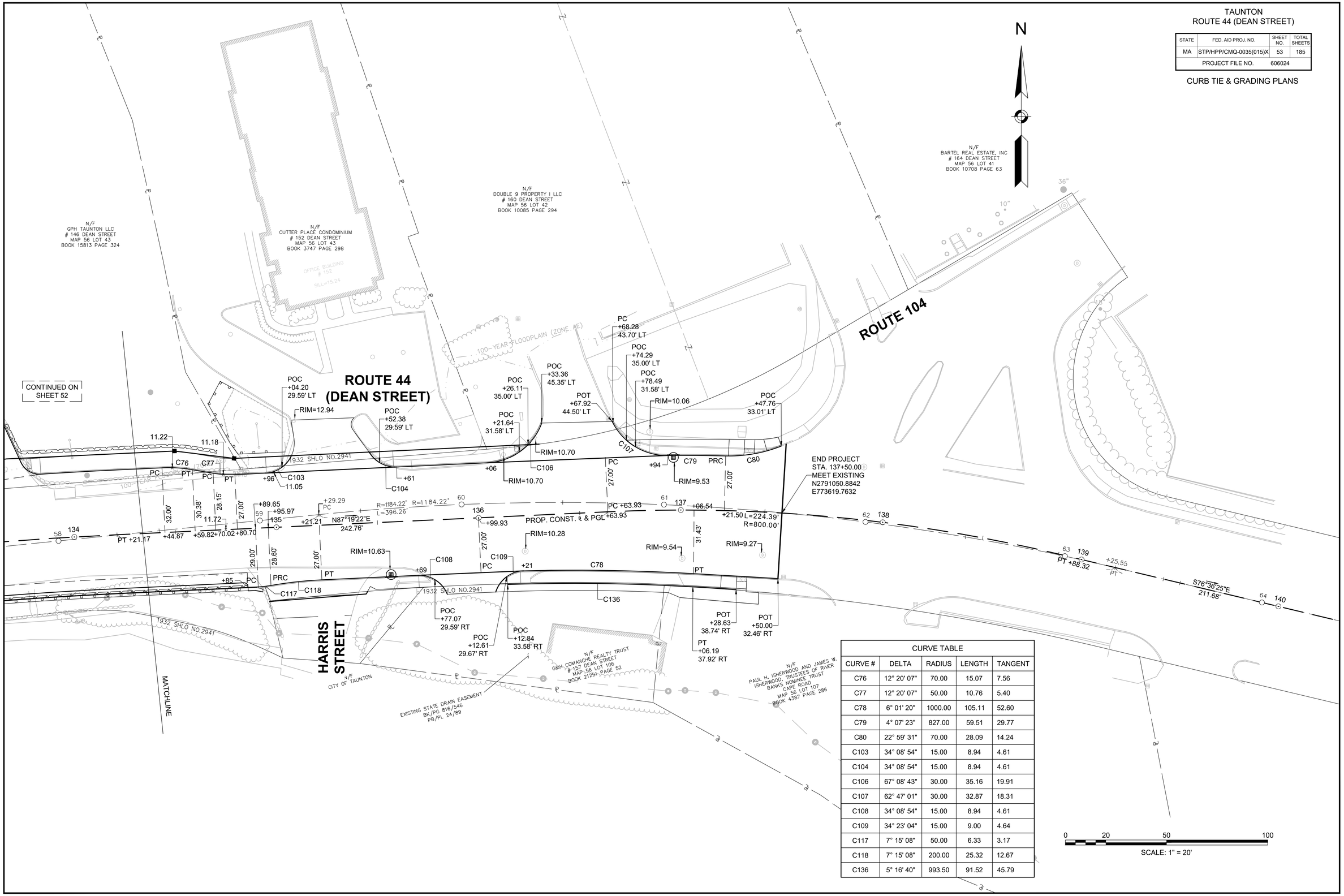
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	53	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C76	12° 20' 07"	70.00	15.07	7.56
C77	12° 20' 07"	50.00	10.76	5.40
C78	6° 01' 20"	1000.00	105.11	52.60
C79	4° 07' 23"	827.00	59.51	29.77
C80	22° 59' 31"	70.00	28.09	14.24
C103	34° 08' 54"	15.00	8.94	4.61
C104	34° 08' 54"	15.00	8.94	4.61
C106	67° 08' 43"	30.00	35.16	19.91
C107	62° 47' 01"	30.00	32.87	18.31
C108	34° 08' 54"	15.00	8.94	4.61
C109	34° 23' 04"	15.00	9.00	4.64
C117	7° 15' 08"	50.00	6.33	3.17
C118	7° 15' 08"	200.00	25.32	12.67
C136	5° 16' 40"	993.50	91.52	45.79

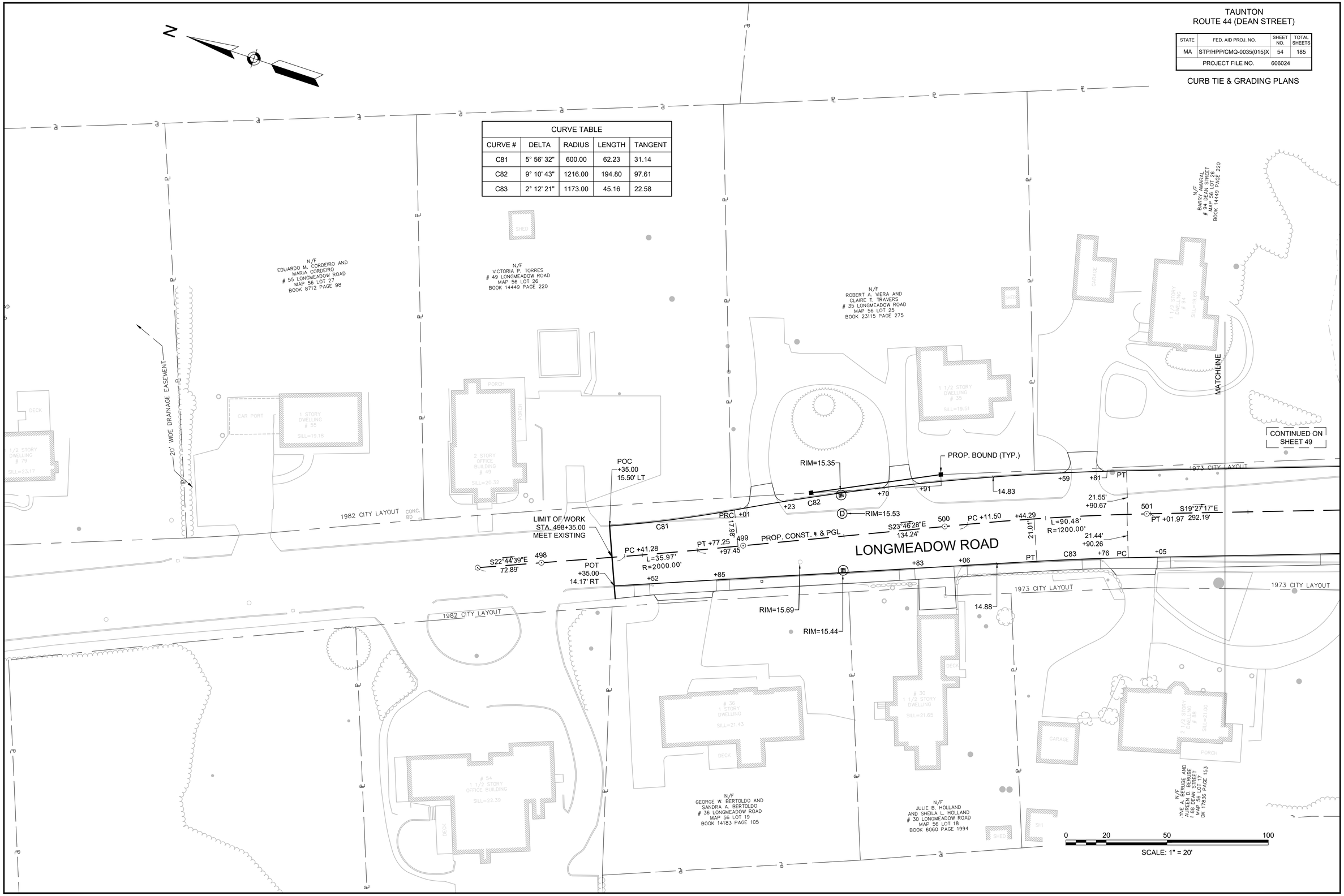
606024_HD_(CT).DWG Plotted on 26-Aug-2022 5:45 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	54	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS

CURVE TABLE				
CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C81	5° 56' 32"	600.00	62.23	31.14
C82	9° 10' 43"	1216.00	194.80	97.61
C83	2° 12' 21"	1173.00	45.16	22.58



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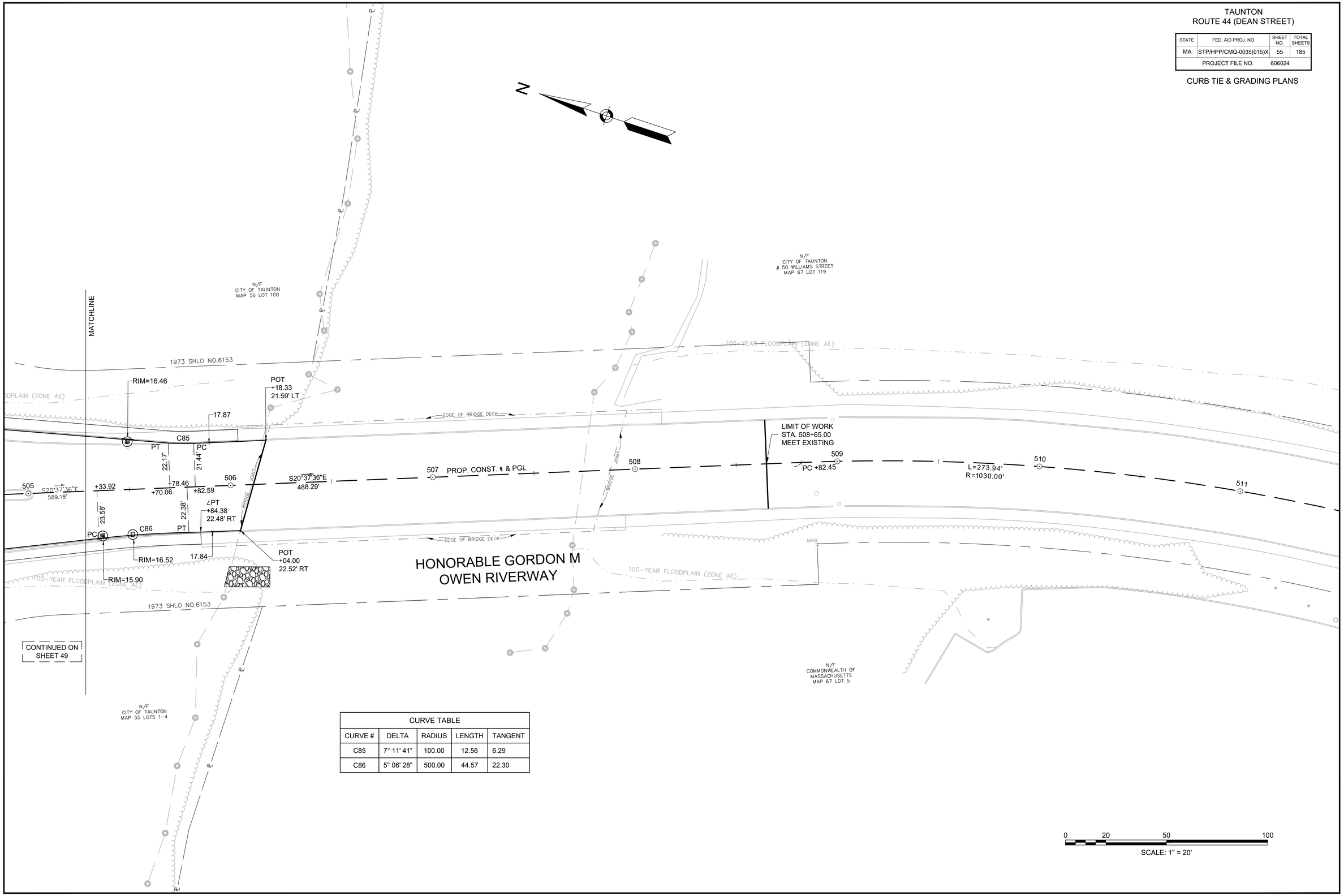
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	55	185
PROJECT FILE NO.	606024		

CURB TIE & GRADING PLANS



CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C85	7° 11' 41"	100.00	12.56	6.29
C86	5° 06' 28"	500.00	44.57	22.30

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BOUND LOCATION TABLE

TYPE	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
P-MHB	ROUTE 44 (DEAN STREET)	102+17.16	26.11' (L)	2790283.6255	770252.5457
P-MHB	ROUTE 44 (DEAN STREET)	102+99.79	26.00' (L)	2790266.6934	770333.4150
P-MHB	ROUTE 44 (DEAN STREET)	116+89.05	45.44' (R)	2790402.1581	771694.9257
P-MHB	ROUTE 44 (DEAN STREET)	117+42.32	41.61' (L)	2790501.9870	771716.1967
P-MHB	ROUTE 44 (DEAN STREET)	117+49.07	58.05' (R)	2790410.5839	771756.4846
P-MHB	ROUTE 44 (DEAN STREET)	118+01.28	57.84' (R)	2790429.2115	771806.1052
P-MHB	ROUTE 44 (DEAN STREET)	118+01.36	67.84' (R)	2790419.8906	771809.7273
P-MHB	ROUTE 44 (DEAN STREET)	118+22.92	51.79' (R)	2790442.7024	771824.4606
P-MHB	ROUTE 44 (DEAN STREET)	118+22.97	67.71' (R)	2790427.8649	771830.2312
P-MHB	ROUTE 44 (DEAN STREET)	118+48.56	43.71' (R)	2790459.6411	771845.7225
P-MHB	ROUTE 44 (DEAN STREET)	120+86.04	38.69' (L)	2790629.0836	772031.5331
P-MHB	ROUTE 44 (DEAN STREET)	123+43.20	33.00' (L)	2790739.5795	772261.2628
P-MHB	ROUTE 44 (DEAN STREET)	125+38.37	35.00' (L)	2790834.8080	772431.6309
P-MHB	ROUTE 44 (DEAN STREET)	126+78.82	35.00' (L)	2790898.7083	772559.5000
P-MHB	ROUTE 44 (DEAN STREET)	130+33.49	35.00' (L)	2791017.7447	772899.8197
P-MHB	ROUTE 44 (DEAN STREET)	133+06.85	35.00' (L)	2791066.2748	773173.5866
P-MHB	ROUTE 44 (DEAN STREET)	134+51.46	40.01' (L)	2791081.5294	773319.6343
P-MHB	ROUTE 44 (DEAN STREET)	134+80.70	35.00' (L)	2791077.8949	773349.0722

BOUND LOCATION TABLE

TYPE	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
P-MHB	LONGMEADOW ROAD	499+35.94	22.85' (L)	2790787.5271	771441.9203
P-MHB	LONGMEADOW ROAD	500+00.54	25.72' (L)	2790729.5689	771470.5962
P-MHB	LONGMEADOW ROAD	502+56.07	35.02' (L)	2790491.4372	771569.1349
P-MHB	LONGMEADOW ROAD	502+56.87	32.64' (L)	2790489.8946	771567.1640
P-MHB	LONGMEADOW ROAD	502+77.96	55.74' (L)	2790477.7038	771595.9694

NOTES:

SEE SHEETS 46-55 FOR PROPOSED BOUND LOCATIONS

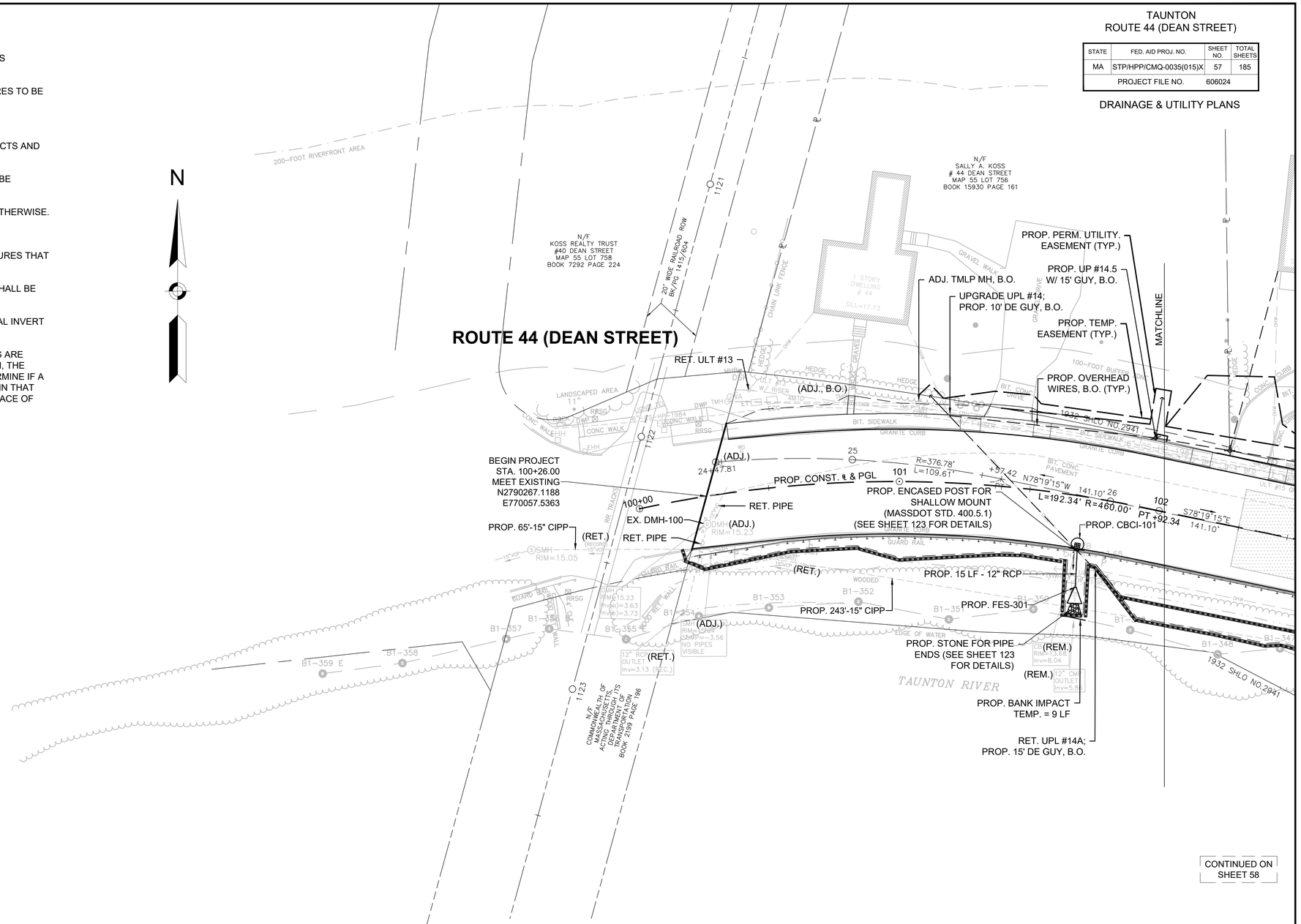
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	57	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

GENERAL NOTES:

1. ALL ABANDONED UNDERGROUND PIPE SHALL BE CAPPED WITH A MASONRY PLUG AS INDICATED AND ABANDONED IN PLACE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY NO LIVE CONNECTIONS EXIST IN DRAINAGE STRUCTURES TO BE ABANDONED OR REMOVED.
3. ALL PROPOSED CATCH BASINS SHALL HAVE DEEP SUMPS (4 FEET MIN.).
4. CONTRACTOR SHALL EXCAVATE TEST PITS IN AREAS OF POTENTIAL UTILITY CONFLICTS AND RELAY INFORMATION TO ENGINEER PRIOR TO COMMENCEMENT OF UTILITY WORK.
5. SILT SACKS SHALL BE USED AT ALL EXISTING AND PROPOSED INLETS THAT ARE TO BE RETAINED FOR THE DURATION OF THE PROJECT.
6. ALL EXISTING CURB INLETS SHALL BE REMOVED AND DISCARDED UNLESS NOTED OTHERWISE.
7. ALL GUTTER INLETS SHALL HAVE GRANITE CURB INLETS.
8. ALL EXISTING FRAME AND GRATES OR COVERS ON DRAINAGE AND SEWER STRUCTURES THAT ARE NOT SUITABLE FOR REUSE SHALL BE REMOVED AND DISCARDED.
9. THE CASTINGS OF ALL DRAINAGE STRUCTURES TO BE REMOVED OR ABANDONED SHALL BE DISCARDED.
10. PROPOSED INVERT ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. ACTUAL INVERT ELEVATIONS SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
11. THE EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN. GUTTER INLETS ARE PROPOSED WHERE IT IS BELIEVED IMPACTS MAY OCCUR. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL TEST PIT ALL PROPOSED GUTTER INLET LOCATIONS TO DETERMINE IF A GUTTER INLET IS REQUIRED. IF THERE ARE NO UTILITY CONFLICTS, THE CATCH BASIN THAT WAS TO BE CONNECTED TO THE GUTTER INLET SHALL INSTEAD BE INSTALLED IN PLACE OF THE GUTTER INLET.



CONTINUED ON SHEET 58

UTILITY LEGEND

PROPOSED	EXISTING	
"SIZE & TYPE"	"SIZE & TYPE" (DIRECTION OF FLOW)	DRAIN LINE
"SIZE & TYPE"	"SIZE & TYPE"	SEWER LINE
"SIZE & TYPE"	"SIZE & TYPE"	WATER MAIN
"SIZE & TYPE"	"SIZE & TYPE"	GAS MAIN
"NAME OF UTILITY"		TELEPHONE LINE OR DUCT
		OVERHEAD WIRES

STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-101	Route 44 (Dean Street)	101+71 18.41' (RT)	RIM = 14.13	12" RCP OUT = 8.04	ECCENTRIC CB
FES-301	Route 44 (Dean Street)	101+73 34.74' (RT)		12" RCP IN CBCI-101 = 7.05	

0 20 50 100
SCALE: 1" = 20'

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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	58	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

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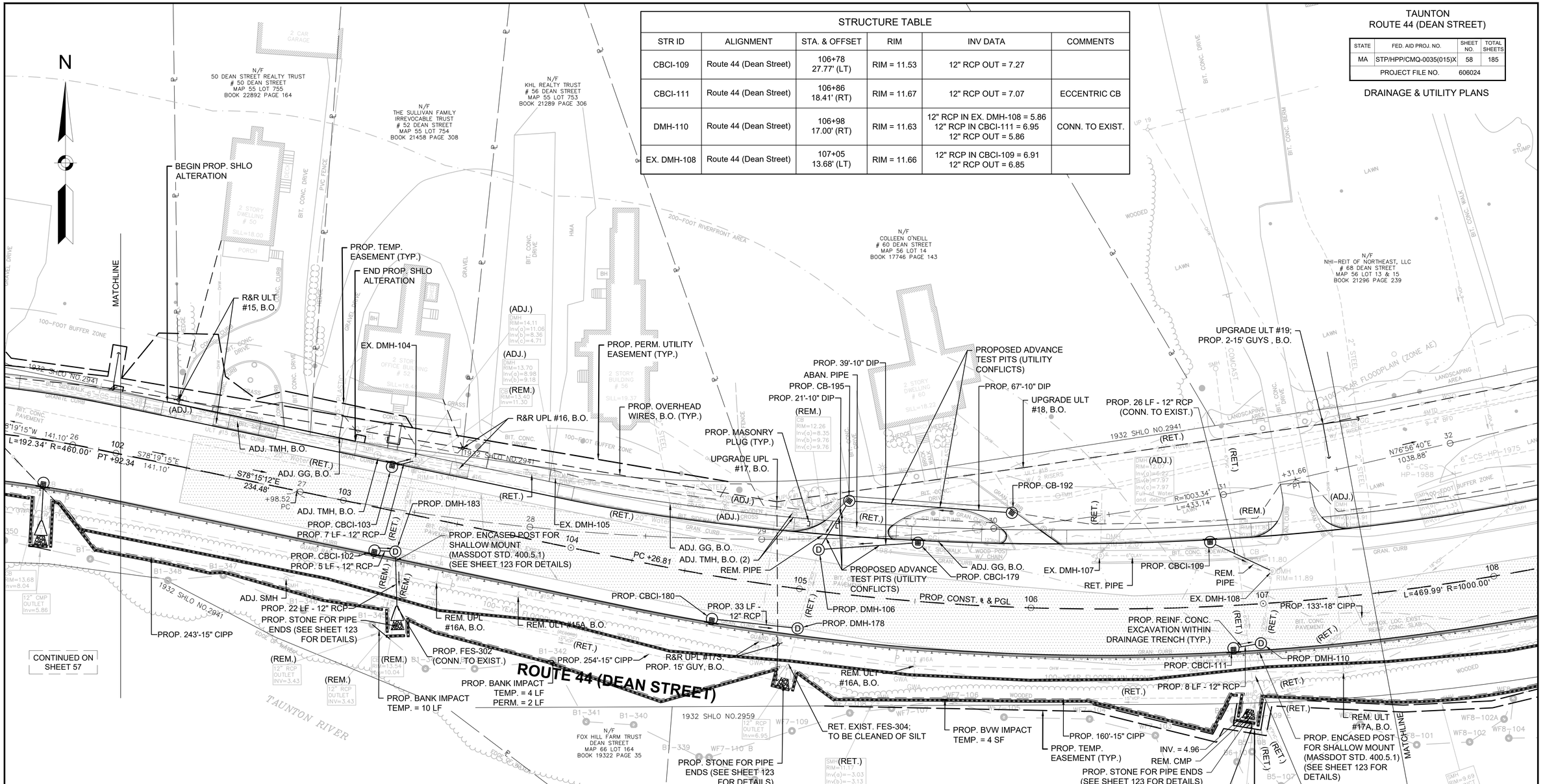


STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-109	Route 44 (Dean Street)	106+78 27.77' (LT)	RIM = 11.53	12" RCP OUT = 7.27	
CBCI-111	Route 44 (Dean Street)	106+86 18.41' (RT)	RIM = 11.67	12" RCP OUT = 7.07	ECCENTRIC CB
DMH-110	Route 44 (Dean Street)	106+98 17.00' (RT)	RIM = 11.63	12" RCP IN EX. DMH-108 = 5.86 12" RCP IN CBCI-111 = 6.95 12" RCP OUT = 5.86	CONN. TO EXIST.
EX. DMH-108	Route 44 (Dean Street)	107+05 13.68' (LT)	RIM = 11.66	12" RCP IN CBCI-109 = 6.91 12" RCP OUT = 6.85	

STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-102	Route 44 (Dean Street)	103+18 18.41' (RT)	RIM = 13.55	12" RCP OUT = 8.88	ECCENTRIC CB
CBCI-103	Route 44 (Dean Street)	103+18 18.41' (LT)	RIM = 13.55	12" RCP OUT = 9.37	ECCENTRIC CB
DMH-183	Route 44 (Dean Street)	103+26 17.00' (RT)	RIM = 13.54	12" RCP IN EX. DMH-104 = 4.04 12" RCP IN CBCI-102 = 8.83 12" RCP OUT = 4.04	CONN. TO EXIST.
EX. DMH-104	Route 44 (Dean Street)	103+27 23.16' (LT)	RIM = 14.02	12" RCP IN CBCI-103 = 9.25 12" RCP OUT = 4.71	
FES-302	Route 44 (Dean Street)	103+32 39.93' (RT)		12" RCP IN DMH-183 = 3.92	

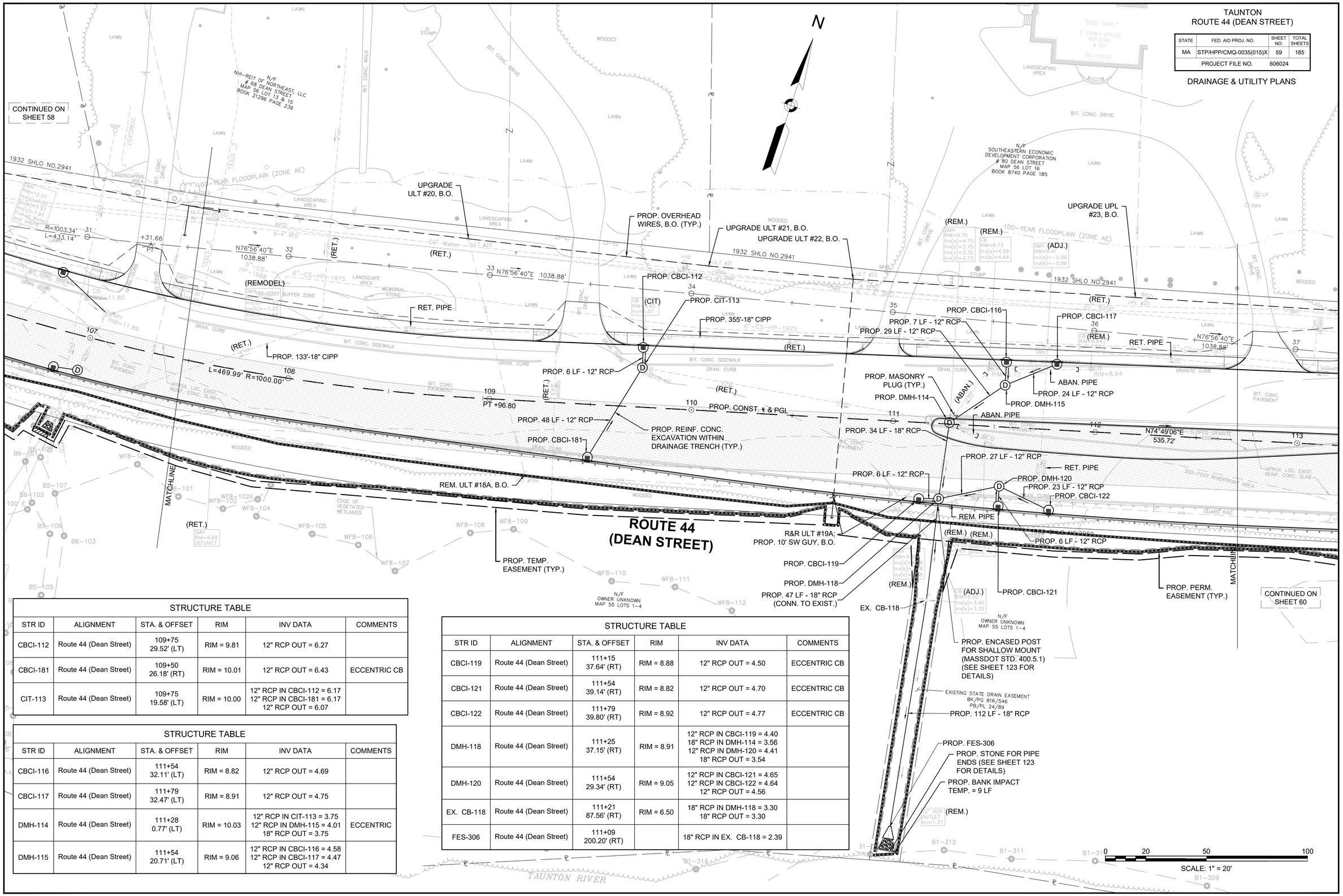
STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-192	Route 44 (Dean Street)	105+90 40.59' (LT)	RIM = 11.92	10" DIP OUT = 10.25	
CB-195	Route 44 (Dean Street)	105+17 40.23' (LT)	RIM = 12.26	10" DIP IN CB-192 = 9.90 10" DIP OUT = 8.35	
CBCI-179	Route 44 (Dean Street)	105+49 25.17' (LT)	RIM = 12.32	10" DIP OUT = 9.82	
CBCI-180	Route 44 (Dean Street)	104+65 18.41' (RT)	RIM = 12.93	12" RCP OUT = 8.26	ECCENTRIC CB
DMH-106	Route 44 (Dean Street)	105+06 17.84' (LT)	RIM = 12.71	10" DIP IN CBCI-179 = 8.96 10" DIP IN CB-195 = 8.22 12" RCP OUT = 8.12	CONN. TO EXIST.
DMH-178	Route 44 (Dean Street)	105+01 17.00' (RT)	RIM = 12.76	12" RCP IN DMH-106 = 7.40 12" RCP IN CBCI-180 = 8.04 12" RCP OUT = 7.40	CONN. TO EXIST.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	59	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS



STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-112	Route 44 (Dean Street)	109+75 29.52' (LT)	RIM = 9.81	12" RCP OUT = 6.27	
CBCI-181	Route 44 (Dean Street)	109+50 26.18' (RT)	RIM = 10.01	12" RCP OUT = 6.43	ECCENTRIC CB
CIT-113	Route 44 (Dean Street)	109+75 19.58' (LT)	RIM = 10.00	12" RCP IN CBCI-112 = 6.17 12" RCP IN CBCI-181 = 6.17 12" RCP OUT = 6.07	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-116	Route 44 (Dean Street)	111+54 32.11' (LT)	RIM = 8.82	12" RCP OUT = 4.69	
CBCI-117	Route 44 (Dean Street)	111+79 32.47' (LT)	RIM = 8.91	12" RCP OUT = 4.75	
DMH-114	Route 44 (Dean Street)	111+28 0.77' (LT)	RIM = 10.03	12" RCP IN CIT-113 = 3.75 12" RCP IN DMH-115 = 4.01 18" RCP OUT = 3.75	ECCENTRIC
DMH-115	Route 44 (Dean Street)	111+54 20.71' (LT)	RIM = 9.06	12" RCP IN CBCI-116 = 4.58 12" RCP IN CBCI-117 = 4.47 12" RCP OUT = 4.34	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-119	Route 44 (Dean Street)	111+15 37.64' (RT)	RIM = 8.88	12" RCP OUT = 4.50	ECCENTRIC CB
CBCI-121	Route 44 (Dean Street)	111+54 39.14' (RT)	RIM = 8.82	12" RCP OUT = 4.70	ECCENTRIC CB
CBCI-122	Route 44 (Dean Street)	111+79 39.80' (RT)	RIM = 8.92	12" RCP OUT = 4.77	ECCENTRIC CB
DMH-118	Route 44 (Dean Street)	111+25 37.15' (RT)	RIM = 8.91	12" RCP IN CBCI-119 = 4.40 18" RCP IN DMH-114 = 3.56 12" RCP IN DMH-120 = 4.41 18" RCP OUT = 3.54	
DMH-120	Route 44 (Dean Street)	111+54 29.34' (RT)	RIM = 9.05	12" RCP IN CBCI-121 = 4.65 12" RCP IN CBCI-122 = 4.64 12" RCP OUT = 4.56	
EX. CB-118	Route 44 (Dean Street)	111+21 87.56' (RT)	RIM = 6.50	18" RCP IN DMH-118 = 3.30 18" RCP OUT = 3.30	
FES-306	Route 44 (Dean Street)	111+09 200.20' (RT)		18" RCP IN EX. CB-118 = 2.39	

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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	60	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

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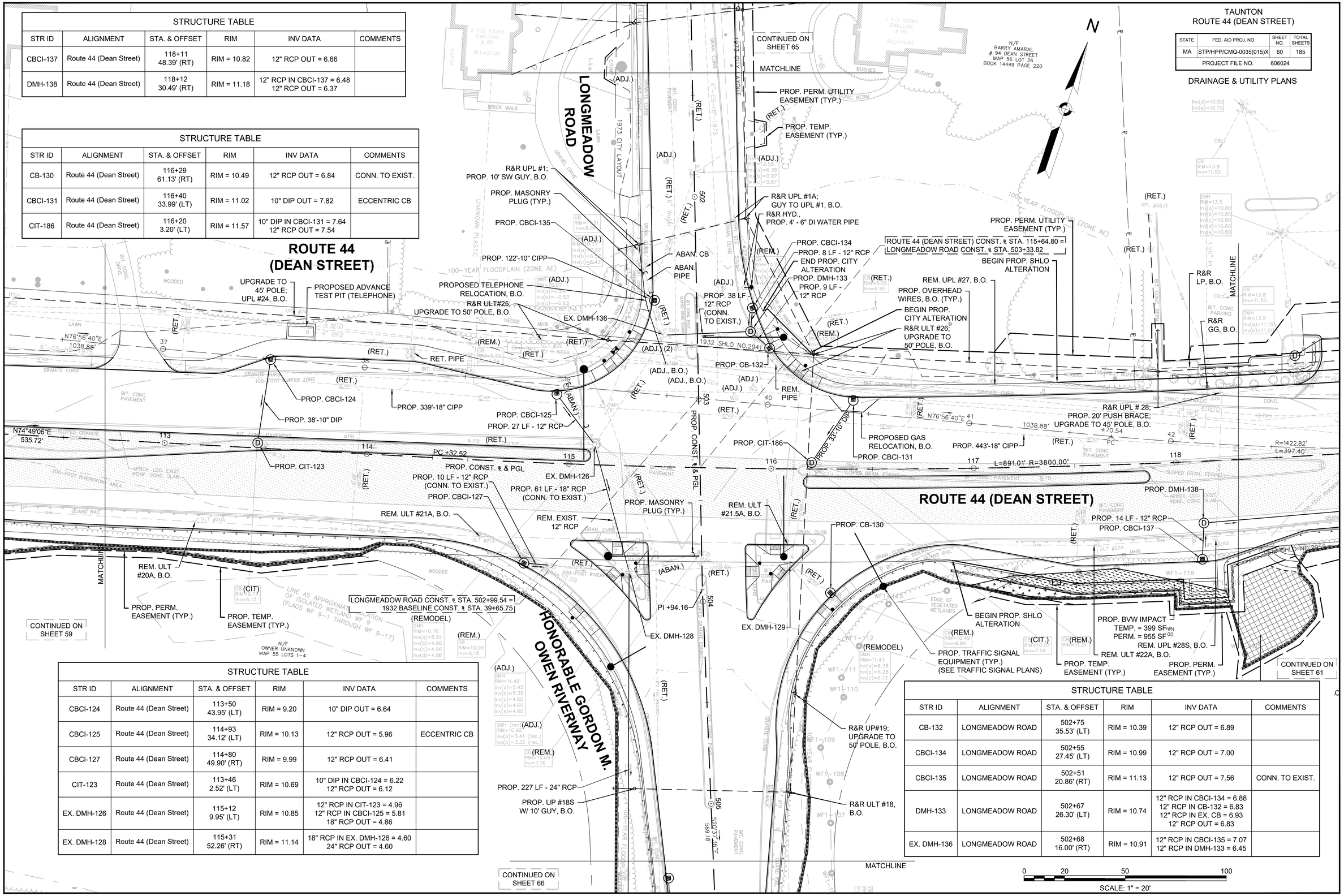


STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-137	Route 44 (Dean Street)	118+11 48.39' (RT)	RIM = 10.82	12" RCP OUT = 6.66	
DMH-138	Route 44 (Dean Street)	118+12 30.49' (RT)	RIM = 11.18	12" RCP IN CBCI-137 = 6.48 12" RCP OUT = 6.37	

STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-130	Route 44 (Dean Street)	116+29 61.13' (RT)	RIM = 10.49	12" RCP OUT = 6.84	CONN. TO EXIST.
CBCI-131	Route 44 (Dean Street)	116+40 33.99' (LT)	RIM = 11.02	10" DIP OUT = 7.82	ECCENTRIC CB
CIT-186	Route 44 (Dean Street)	116+20 3.20' (LT)	RIM = 11.57	10" DIP IN CBCI-131 = 7.64 12" RCP OUT = 7.54	

STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-124	Route 44 (Dean Street)	113+50 43.95' (LT)	RIM = 9.20	10" DIP OUT = 6.64	
CBCI-125	Route 44 (Dean Street)	114+93 34.12' (LT)	RIM = 10.13	12" RCP OUT = 5.96	ECCENTRIC CB
CBCI-127	Route 44 (Dean Street)	114+80 49.90' (RT)	RIM = 9.99	12" RCP OUT = 6.41	
CIT-123	Route 44 (Dean Street)	113+46 2.52' (LT)	RIM = 10.69	10" DIP IN CBCI-124 = 6.22 12" RCP OUT = 6.12	
EX. DMH-126	Route 44 (Dean Street)	115+12 9.95' (LT)	RIM = 10.85	12" RCP IN CIT-123 = 4.96 12" RCP IN CBCI-125 = 5.81 18" RCP OUT = 4.86	
EX. DMH-128	Route 44 (Dean Street)	115+31 52.26' (RT)	RIM = 11.14	18" RCP IN EX. DMH-126 = 4.60 24" RCP OUT = 4.60	

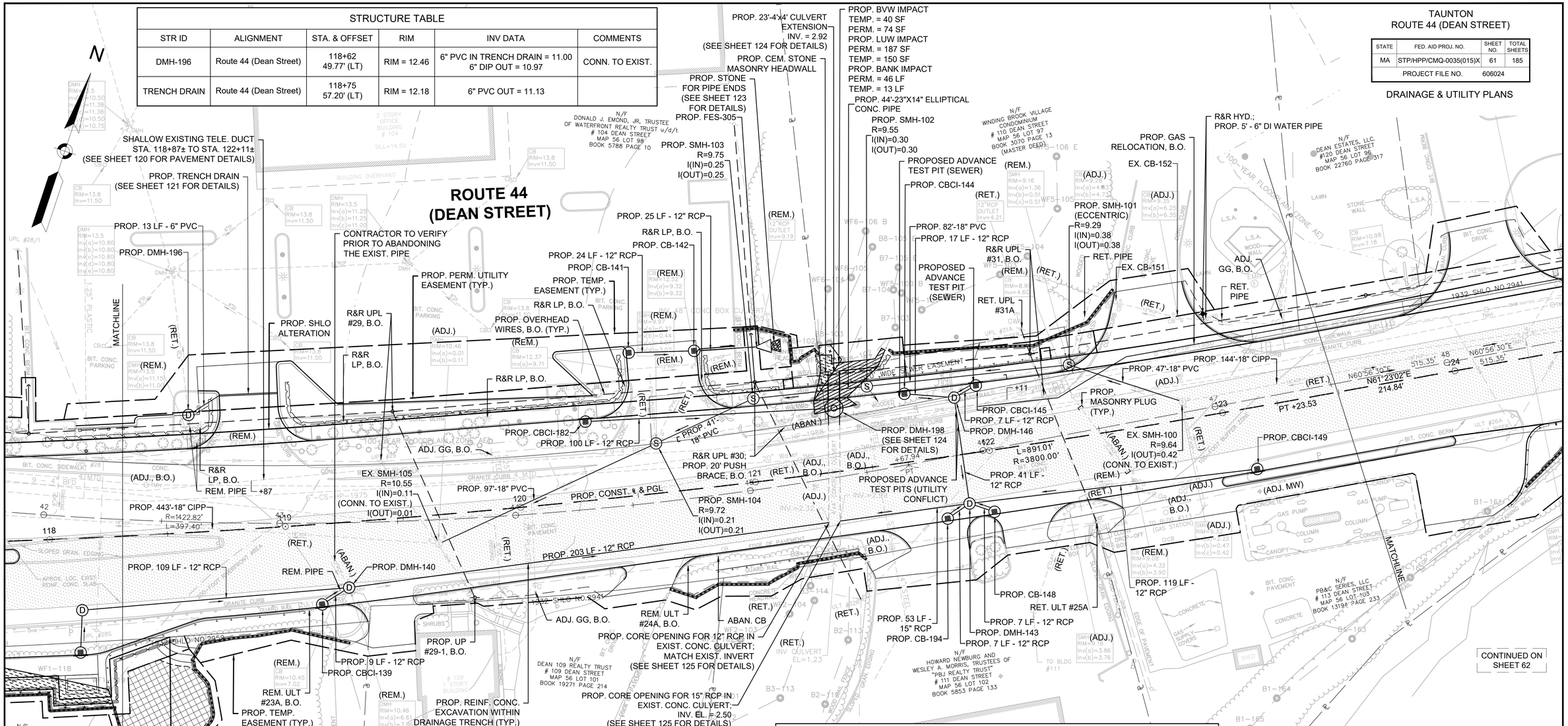
STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-132	LONGMEADOW ROAD	502+75 35.53' (LT)	RIM = 10.39	12" RCP OUT = 6.89	
CBCI-134	LONGMEADOW ROAD	502+55 27.45' (LT)	RIM = 10.99	12" RCP OUT = 7.00	
CBCI-135	LONGMEADOW ROAD	502+51 20.86' (RT)	RIM = 11.13	12" RCP OUT = 7.56	CONN. TO EXIST.
DMH-133	LONGMEADOW ROAD	502+67 26.30' (LT)	RIM = 10.74	12" RCP IN CBCI-134 = 6.88 12" RCP IN CB-132 = 6.83 12" RCP IN EX. CB = 6.93 12" RCP OUT = 6.83	
EX. DMH-136	LONGMEADOW ROAD	502+68 16.00' (RT)	RIM = 10.91	12" RCP IN CBCI-135 = 7.07 12" RCP IN DMH-133 = 6.45	

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	61	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS



STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-196	Route 44 (Dean Street)	118+62 49.77' (LT)	RIM = 12.46	6" PVC IN TRENCH DRAIN = 11.00 6" DIP OUT = 10.97	CONN. TO EXIST.
TRENCH DRAIN	Route 44 (Dean Street)	118+75 57.20' (LT)	RIM = 12.18	6" PVC OUT = 11.13	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-139	Route 44 (Dean Street)	119+13 33.99' (RT)	RIM = 10.46	12" RCP OUT = 6.28	
DMH-140	Route 44 (Dean Street)	119+25 27.69' (RT)	RIM = 10.51	12" RCP IN DMH-138 = 4.04 12" RCP IN CBCI-139 = 6.21 12" RCP OUT = 3.76	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-141	Route 44 (Dean Street)	120+53 60.54' (LT)	RIM = 12.07	12" RCP OUT = 9.56	
CB-142	Route 44 (Dean Street)	120+81 58.26' (LT)	RIM = 12.33	12" RCP IN CB-141 = 9.42 12" RCP OUT = 9.32	
CBCI-182	Route 44 (Dean Street)	120+31 33.46' (LT)	RIM = 9.67	12" RCP OUT = 5.65	
DMH-198	Route 44 (Dean Street)	121+37 26.89' (LT)	RIM = 9.13	48" X 48" CONC. BOX CULVERT IN = 2.86 12" RCP IN CBCI-182 = 4.50 48" X 48" CONC. BOX CULVERT OUT = 1.55	SPECIAL MH
FES-305	Route 44 (Dean Street)	121+07 56.78' (LT)		12" RCP IN CB-142 = 9.19	

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-148	Route 44 (Dean Street)	121+98 26.00' (RT)	RIM = 9.02	12" RCP OUT = 4.85	
CB-194	Route 44 (Dean Street)	121+78 26.00' (RT)	RIM = 9.03	12" RCP OUT = 4.86	
CBCI-144	Route 44 (Dean Street)	121+68 28.91' (LT)	RIM = 8.99	12" RCP OUT = 4.74	
CBCI-145	Route 44 (Dean Street)	121+98 28.10' (LT)	RIM = 8.97	12" RCP OUT = 4.72	
CBCI-149	Route 44 (Dean Street)	123+10 26.00' (RT)	RIM = 9.45	12" RCP OUT = 5.20	
DMH-143	Route 44 (Dean Street)	121+88 20.98' (RT)	RIM = 9.12	12" RCP IN CBCI-149 = 3.20 12" RCP IN CB-148 = 4.79 12" RCP IN CB-194 = 4.81 12" RCP IN DMH-146 = 4.27 15" RCP OUT = 3.20	5 FEET ID
DMH-146	Route 44 (Dean Street)	121+88 24.35' (LT)	RIM = 9.06	12" RCP IN CBCI-144 = 4.62 12" RCP IN CBCI-145 = 4.62 12" RCP OUT = 4.50	

0 20 50 100
SCALE: 1" = 20'

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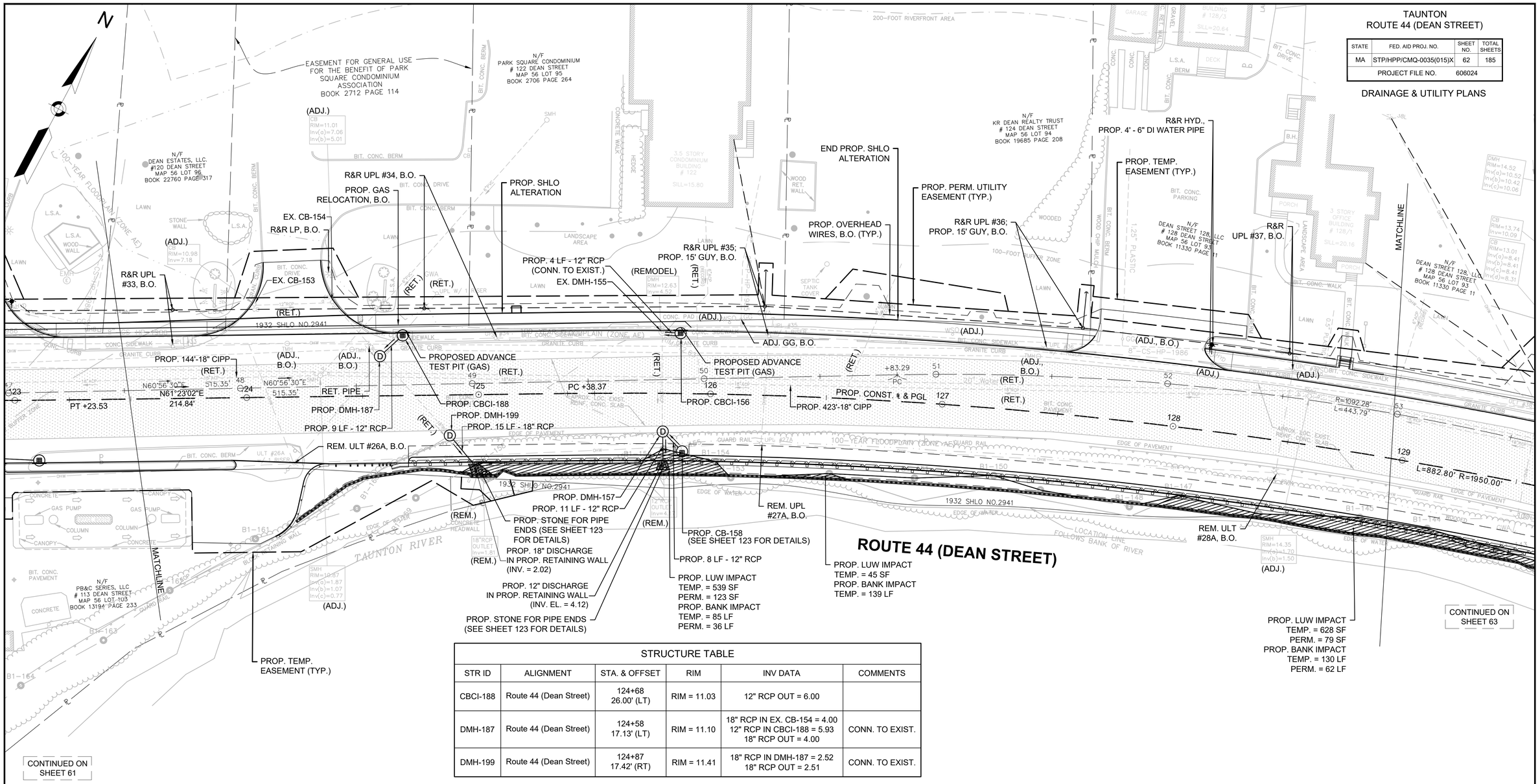
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	62	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS



STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-188	Route 44 (Dean Street)	124+68 26.00' (LT)	RIM = 11.03	12" RCP OUT = 6.00	
DMH-187	Route 44 (Dean Street)	124+58 17.13' (LT)	RIM = 11.10	18" RCP IN EX. CB-154 = 4.00 12" RCP IN CBCI-188 = 5.93 18" RCP OUT = 4.00	CONN. TO EXIST.
DMH-199	Route 44 (Dean Street)	124+87 17.42' (RT)	RIM = 11.41	18" RCP IN DMH-187 = 2.52 18" RCP OUT = 2.51	CONN. TO EXIST.

STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-158	Route 44 (Dean Street)	125+88 25.00' (RT)	RIM = 12.27	12" RCP OUT = 7.64	ECCENTRIC CB
CBCI-156	Route 44 (Dean Street)	125+87 26.00' (LT)	RIM = 12.27	12" RCP OUT = 6.60	
DMH-157	Route 44 (Dean Street)	125+80 16.50' (RT)	RIM = 12.38	12" RCP IN EX. DMH-155 = 4.25 12" RCP IN CB-158 = 7.53 12" RCP OUT = 4.25	CONN. TO EXIST.
EX. DMH-155	Route 44 (Dean Street)	125+79 26.39' (LT)	RIM = 12.18	12" RCP IN CBCI-156 = 6.44 12" RCP OUT = 4.52	

0 20 50 100
SCALE: 1" = 20'

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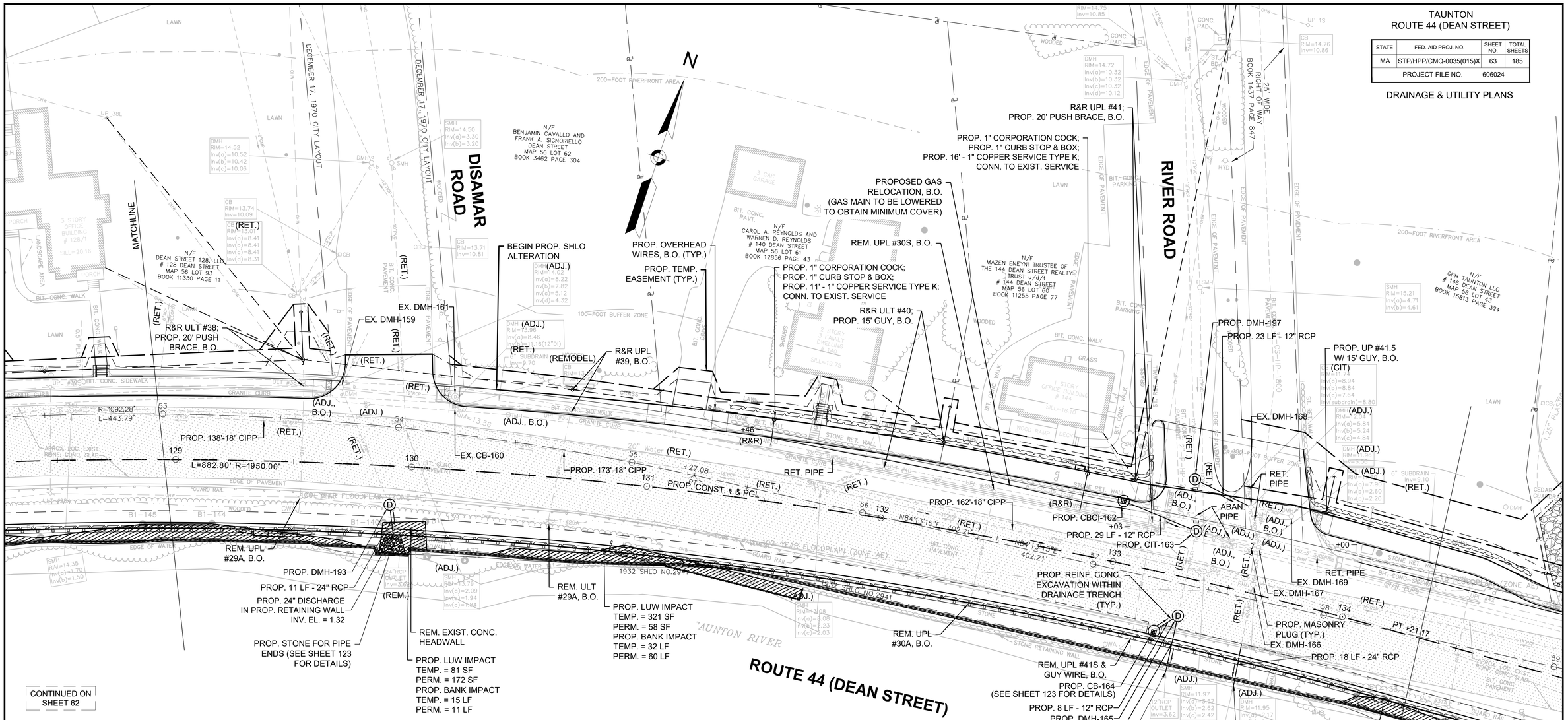
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	63	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS



STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-164	Route 44 (Dean Street)	133+23 25.00' (RT)	RIM = 12.02	12" RCP OUT = 7.39	ECCENTRIC CB
CBCI-162	Route 44 (Dean Street)	132+99 26.00' (LT)	RIM = 12.14	12" RCP OUT = 8.00	
CIT-163	Route 44 (Dean Street)	133+32 20.18' (LT)	RIM = 12.10	12" RCP IN CBCI-162 = 7.83 12" RCP OUT = 7.64	
DMH-165	Route 44 (Dean Street)	133+32 16.50' (RT)	RIM = 12.17	12" RCP IN CIT-163 = 5.22 12" RCP IN CB-164 = 7.27 12" RCP OUT = 5.22	CONN. TO EXIST.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-193	Route 44 (Dean Street)	129+92 16.50' (RT)	RIM = 14.03	24" RCP IN EX. DMH-159 = 3.75 24" RCP OUT = 1.45	CONN. TO EXIST.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-197	Route 44 (Dean Street)	133+26 41.48' (LT)	RIM = 12.46	12" RCP IN EX. DMH = 9.05 12" RCP OUT = 8.95	CONN. TO EXIST.
EX. DMH-168	Route 44 (Dean Street)	133+51 35.43' (LT)	RIM = 11.90	12" RCP IN DMH-197 = 7.81	

0 20 50 100
SCALE: 1" = 20'

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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	64	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

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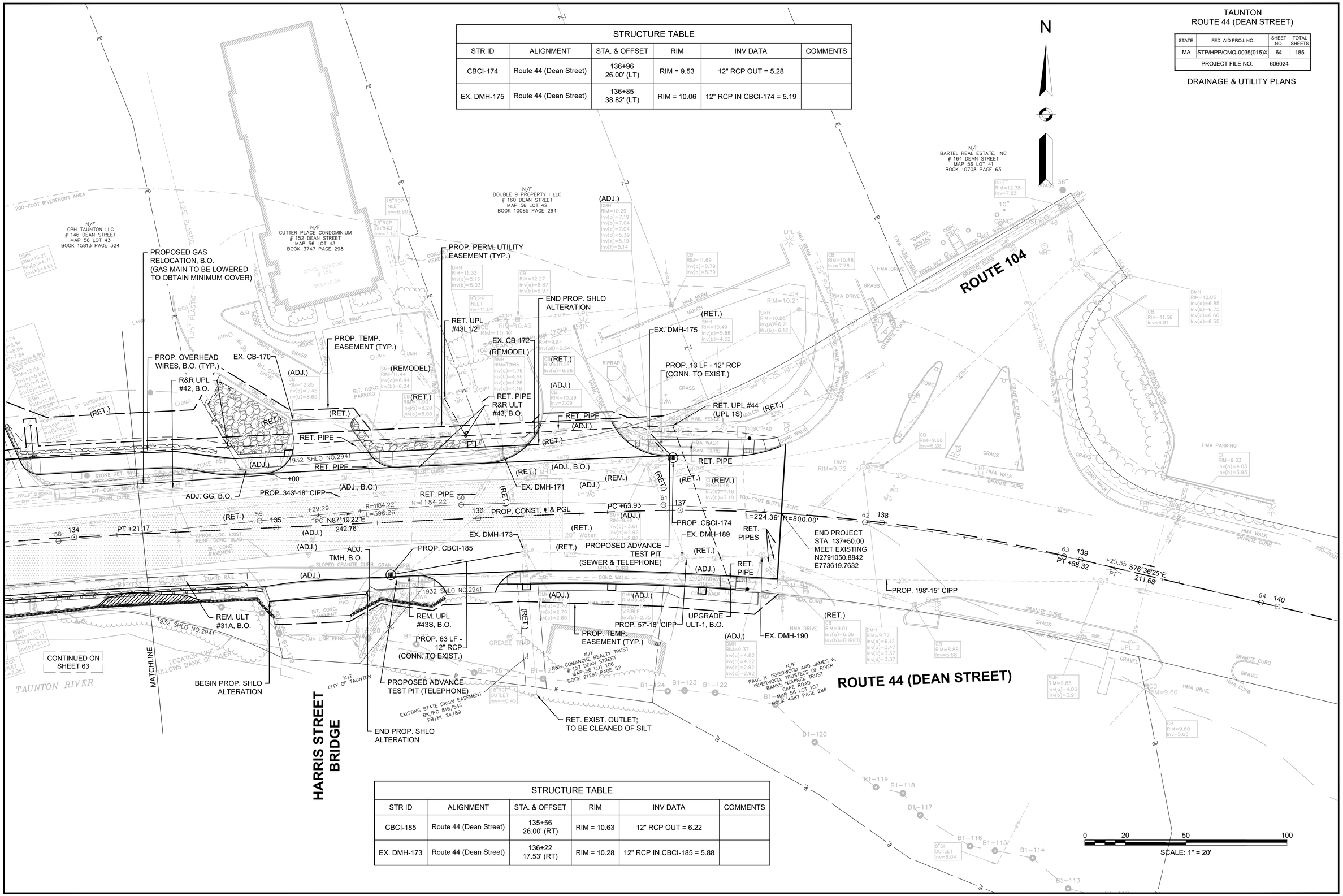


STRUCTURE TABLE

STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-174	Route 44 (Dean Street)	136+96 26.00' (LT)	RIM = 9.53	12" RCP OUT = 5.28	
EX. DMH-175	Route 44 (Dean Street)	136+85 38.82' (LT)	RIM = 10.06	12" RCP IN CBCI-174 = 5.19	

STRUCTURE TABLE

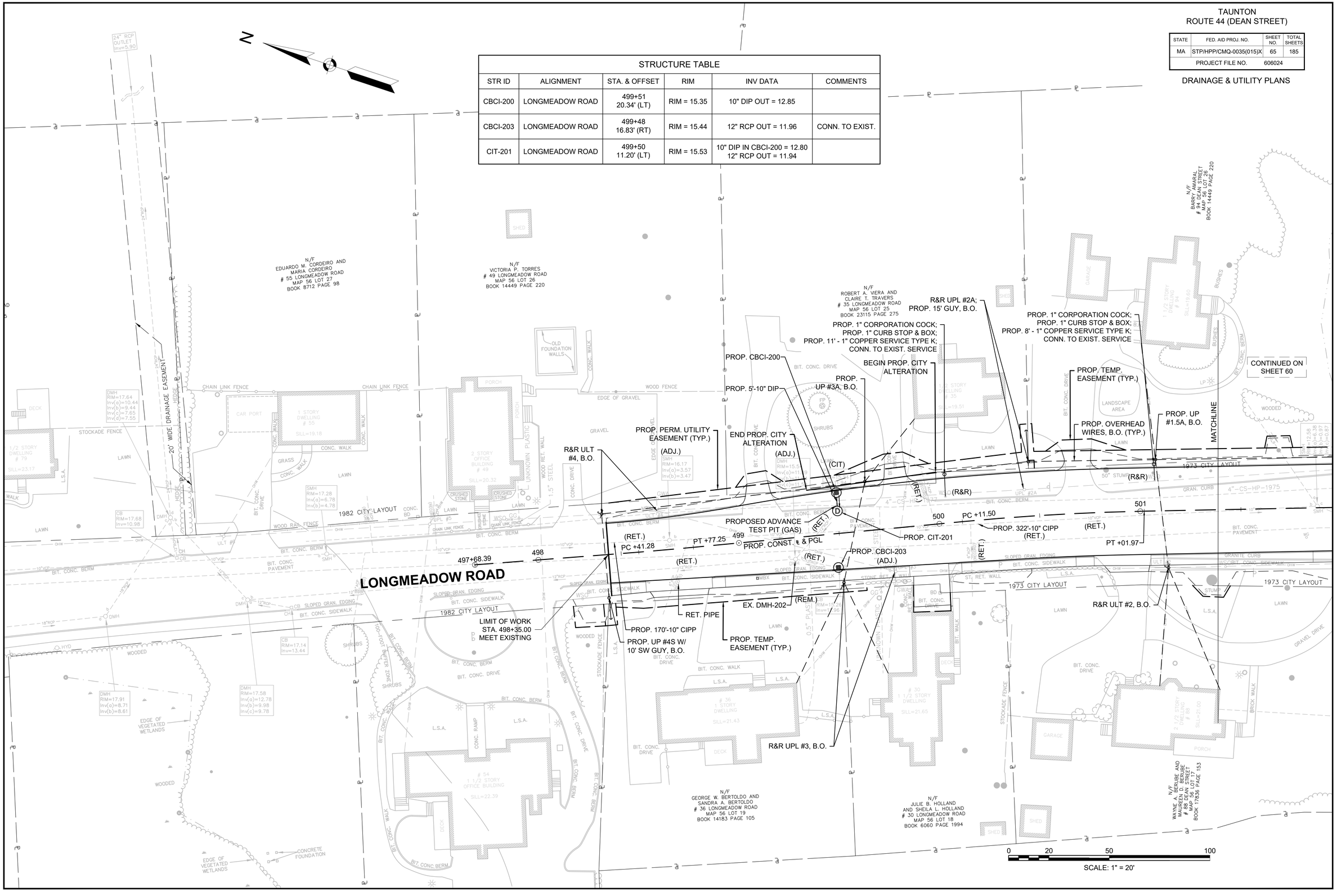
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-185	Route 44 (Dean Street)	135+56 26.00' (RT)	RIM = 10.63	12" RCP OUT = 6.22	
EX. DMH-173	Route 44 (Dean Street)	136+22 17.53' (RT)	RIM = 10.28	12" RCP IN CBCI-185 = 5.88	

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	65	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-200	LONGMEADOW ROAD	499+51 20.34' (LT)	RIM = 15.35	10" DIP OUT = 12.85	
CBCI-203	LONGMEADOW ROAD	499+48 16.83' (RT)	RIM = 15.44	12" RCP OUT = 11.96	CONN. TO EXIST.
CIT-201	LONGMEADOW ROAD	499+50 11.20' (LT)	RIM = 15.53	10" DIP IN CBCI-200 = 12.80 12" RCP OUT = 11.94	



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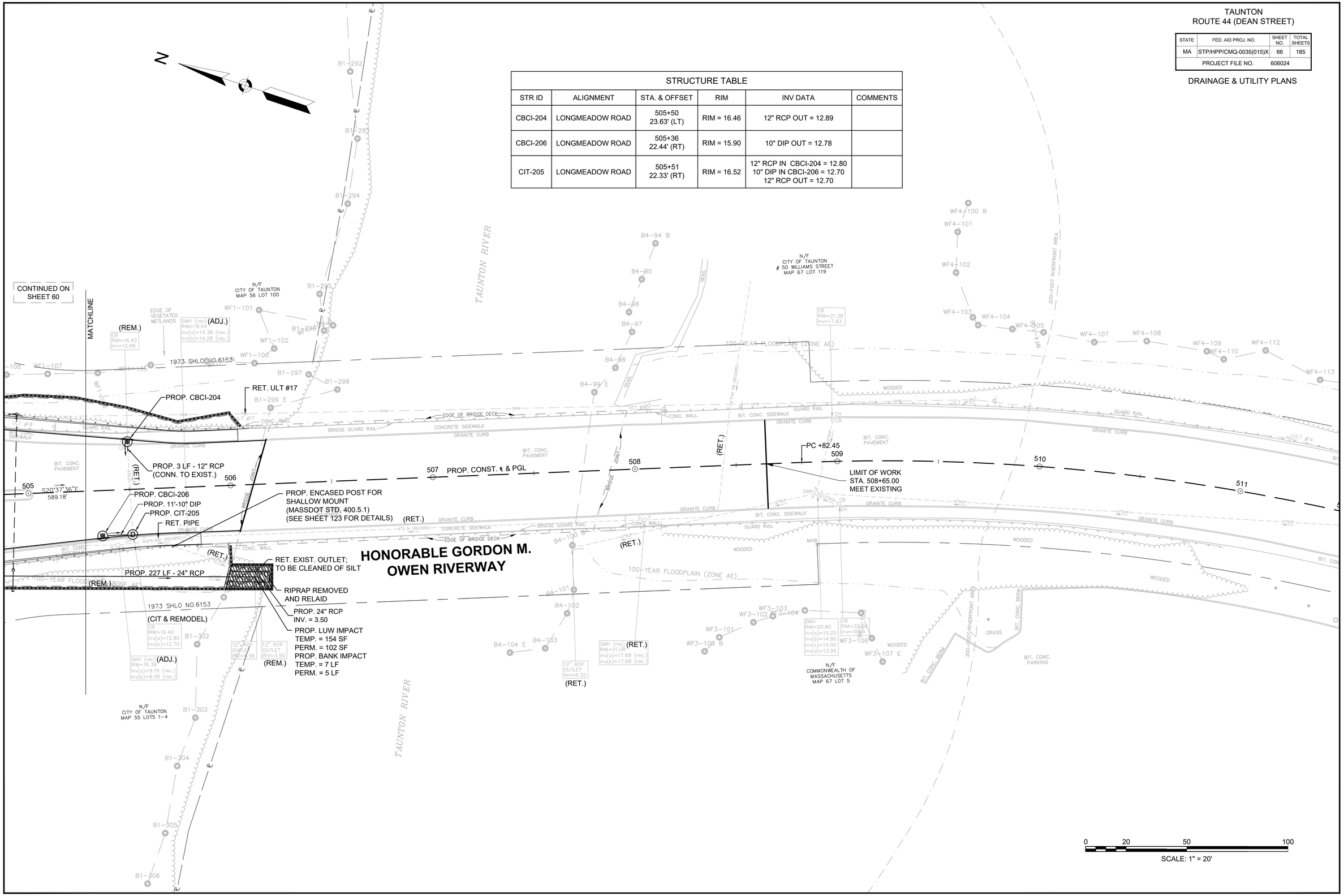
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	66	185
PROJECT FILE NO.	606024		

DRAINAGE & UTILITY PLANS

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-204	LONGMEADOW ROAD	505+50 23.63' (LT)	RIM = 16.46	12" RCP OUT = 12.89	
CBCI-206	LONGMEADOW ROAD	505+36 22.44' (RT)	RIM = 15.90	10" DIP OUT = 12.78	
CIT-205	LONGMEADOW ROAD	505+51 22.33' (RT)	RIM = 16.52	12" RCP IN CBCI-204 = 12.80 10" DIP IN CBCI-206 = 12.70 12" RCP OUT = 12.70	



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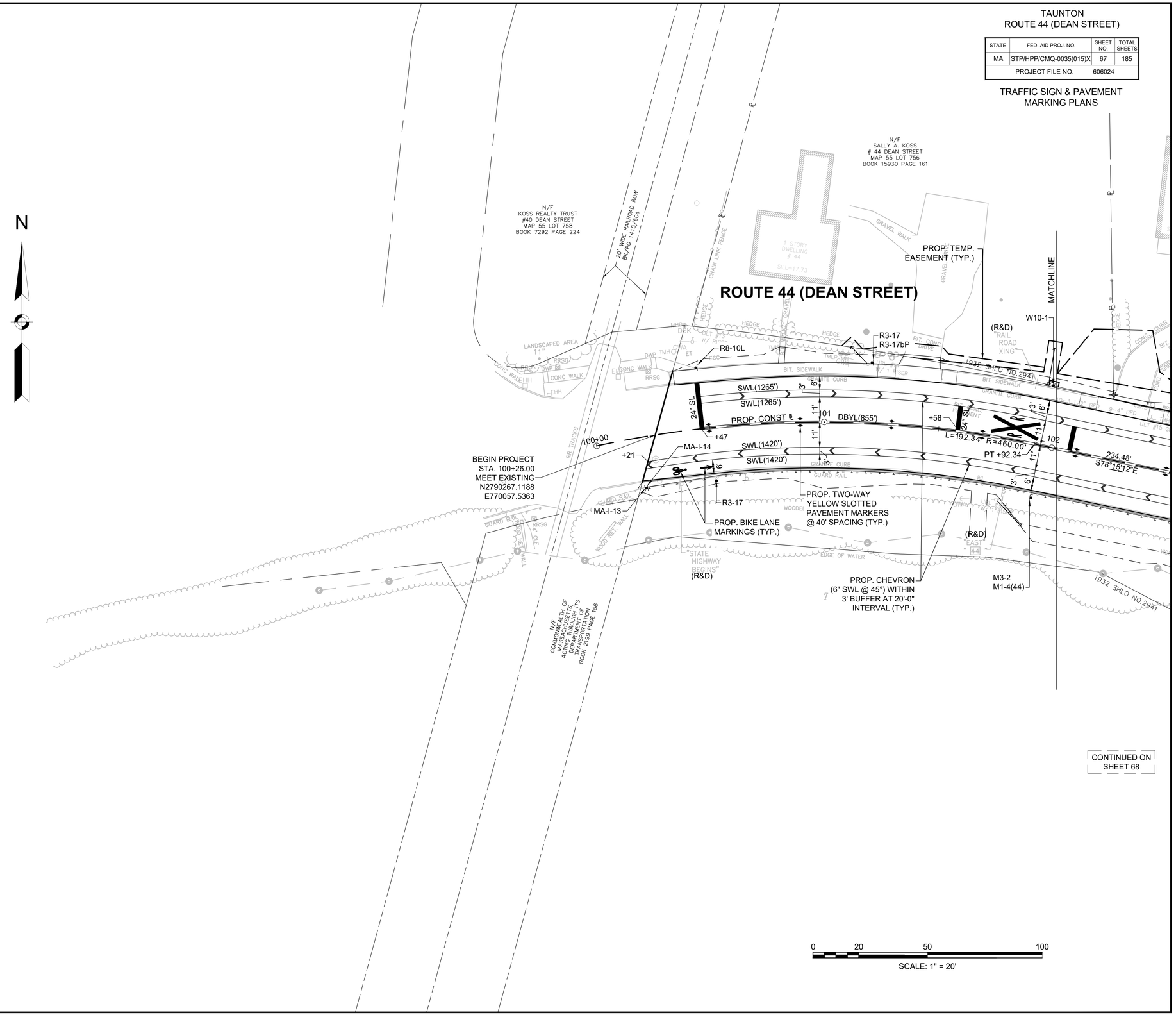
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	67	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



CONTINUED ON SHEET 68

0 20 50 100
SCALE: 1" = 20'

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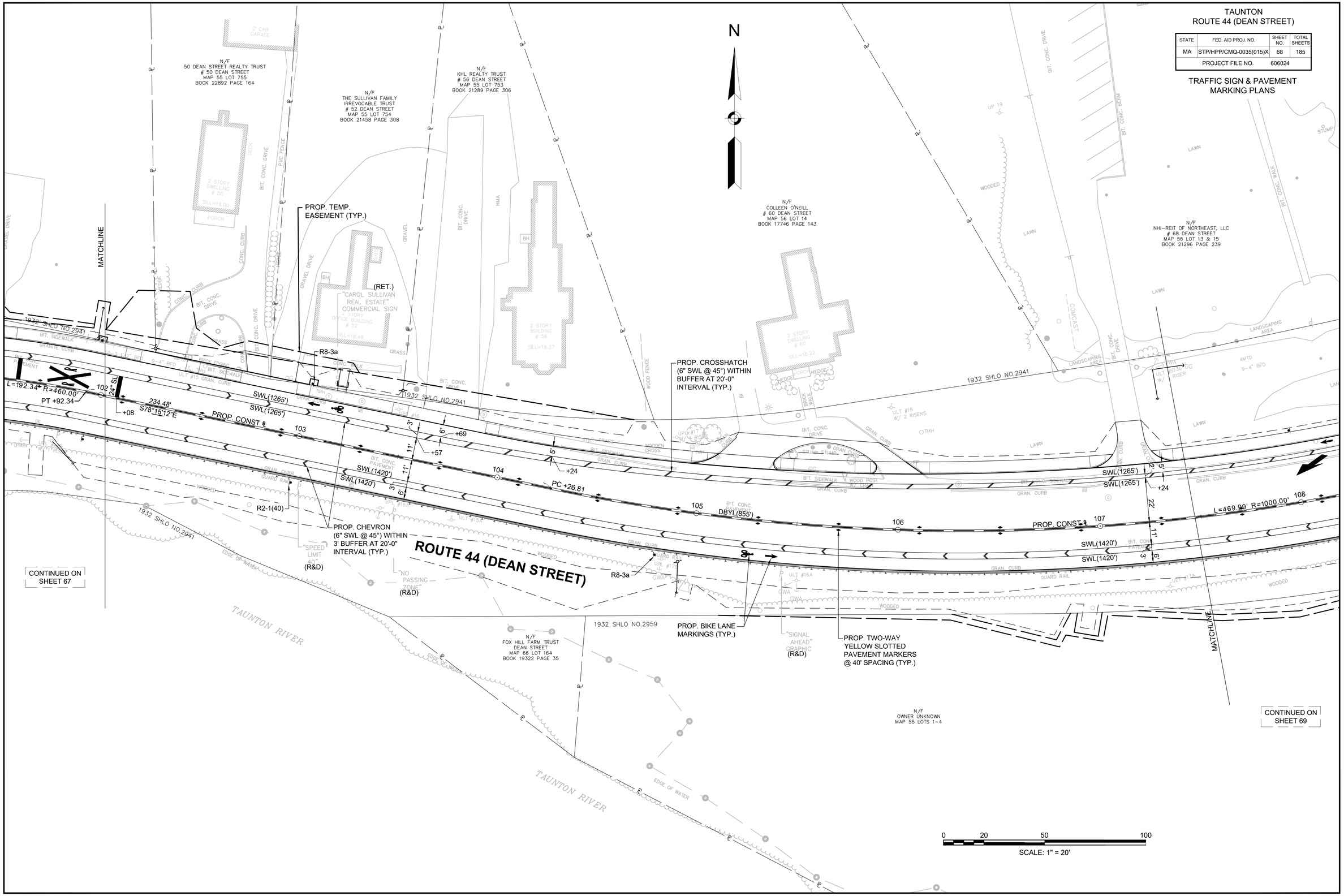
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	68	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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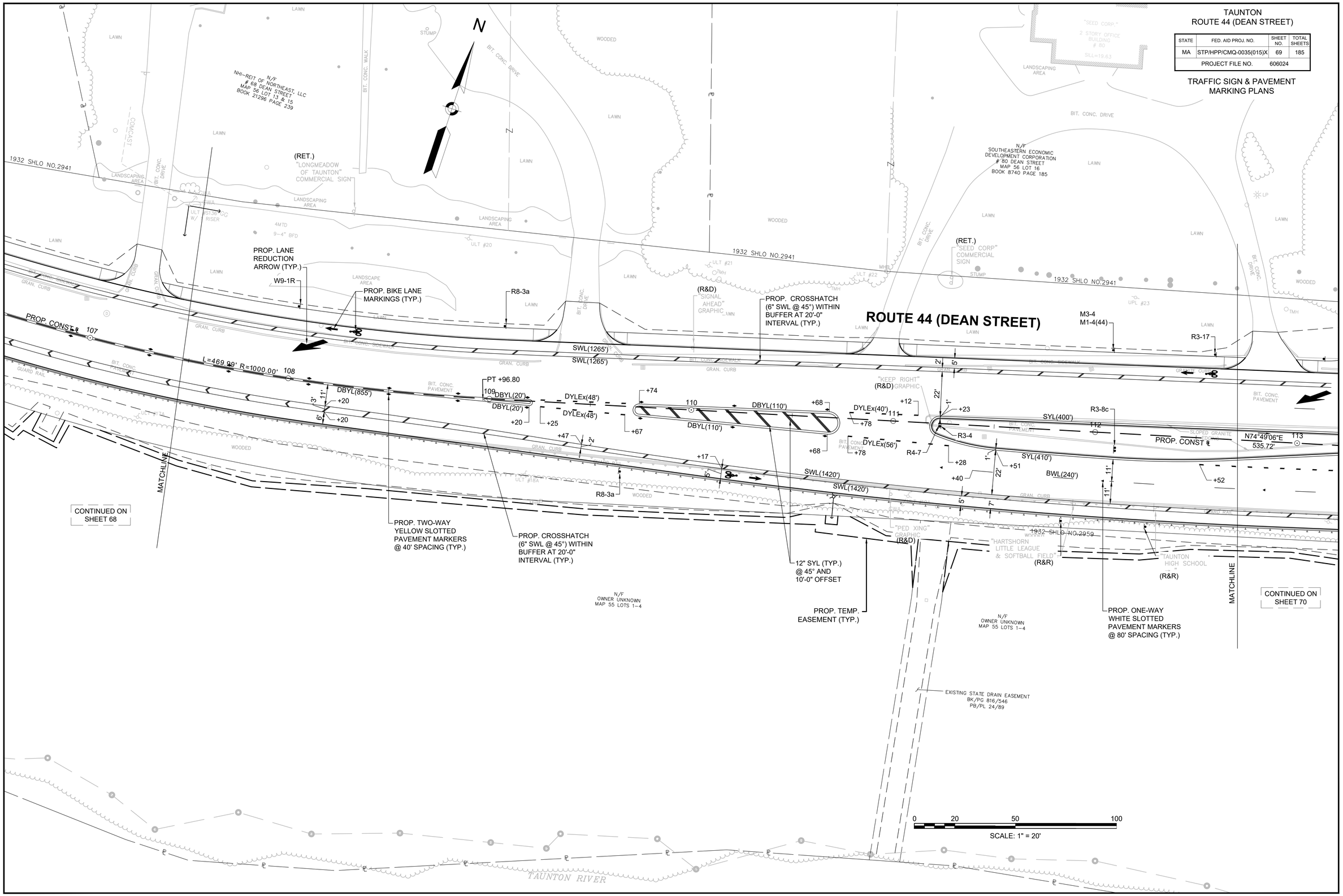
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	69	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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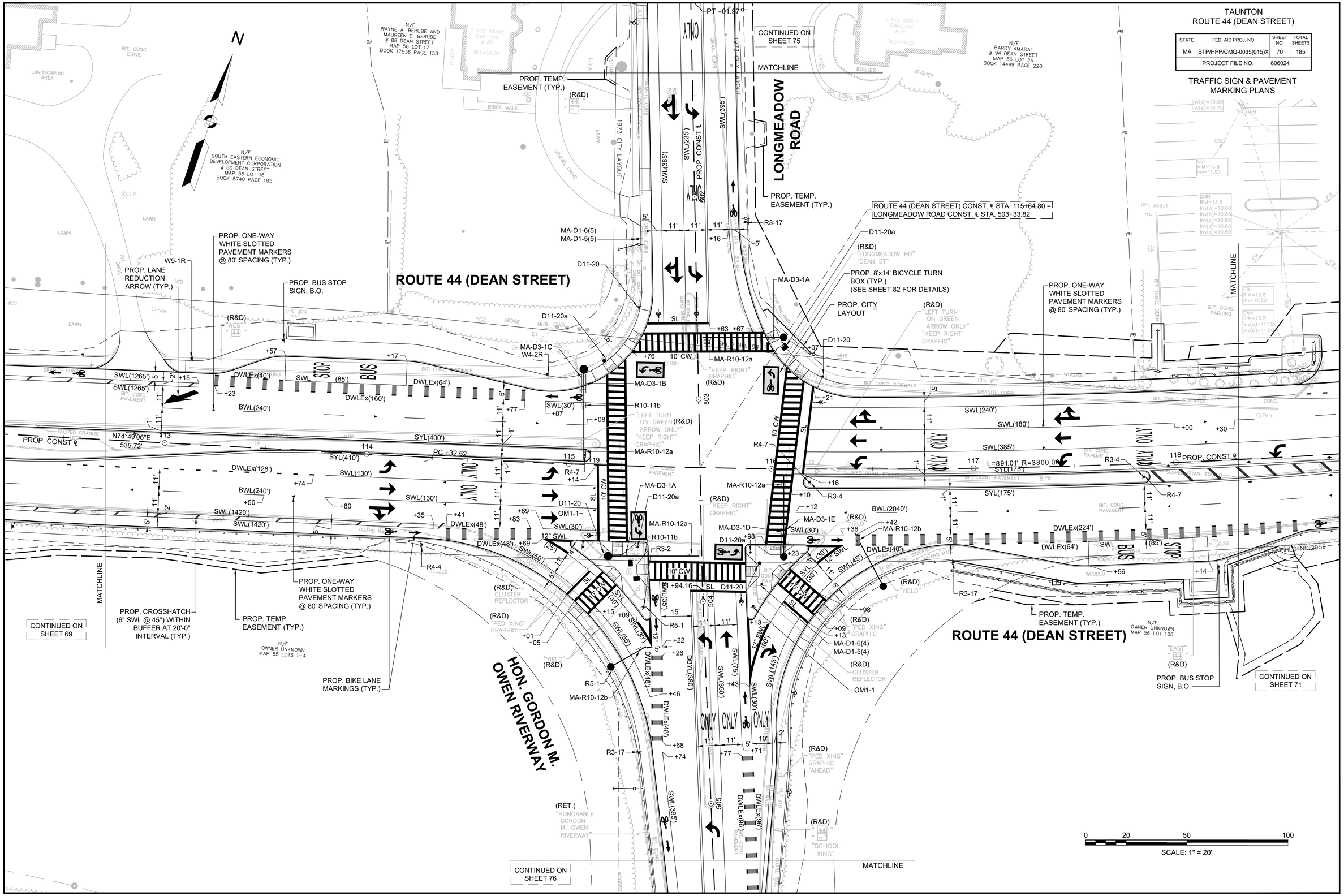
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	70	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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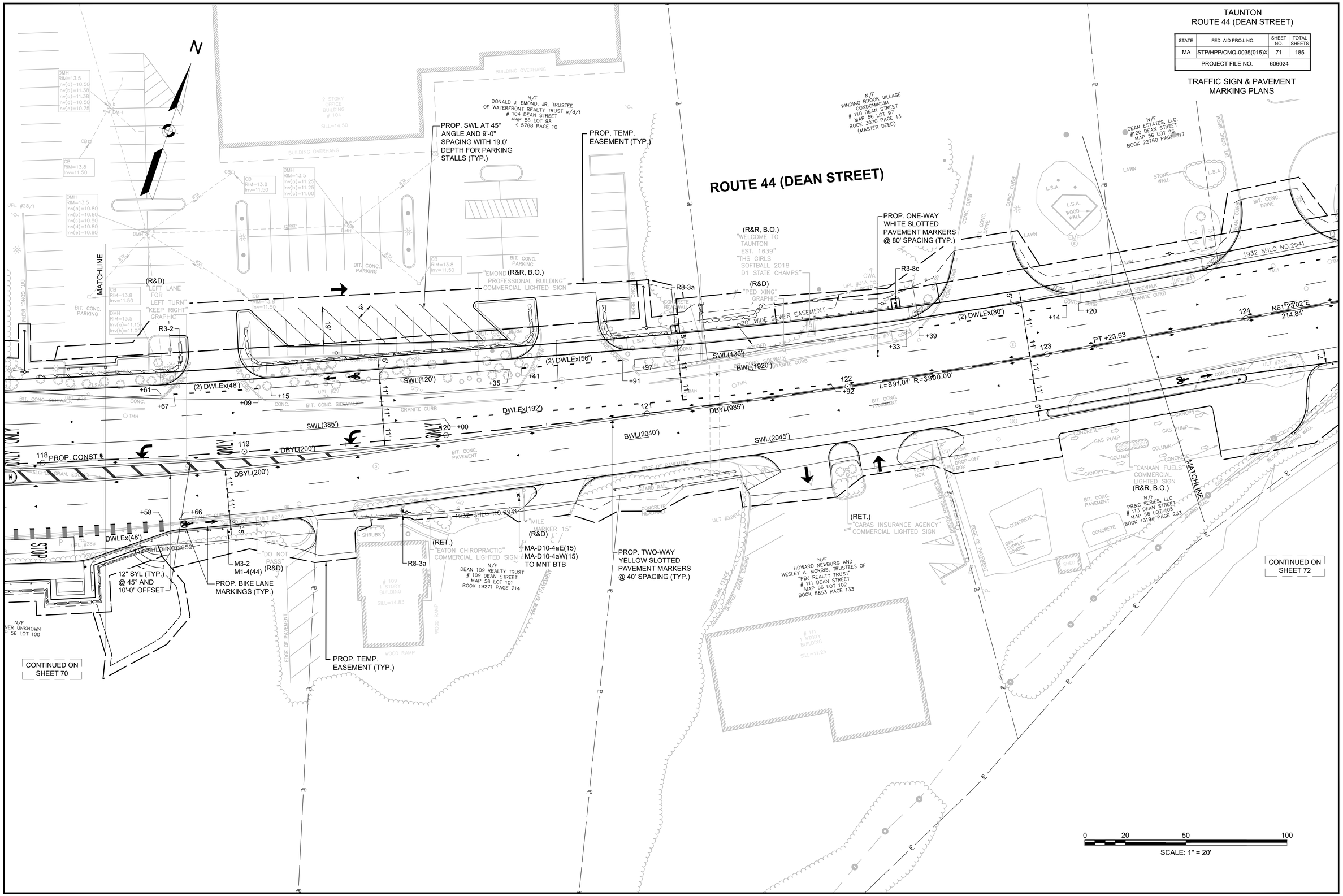
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	71	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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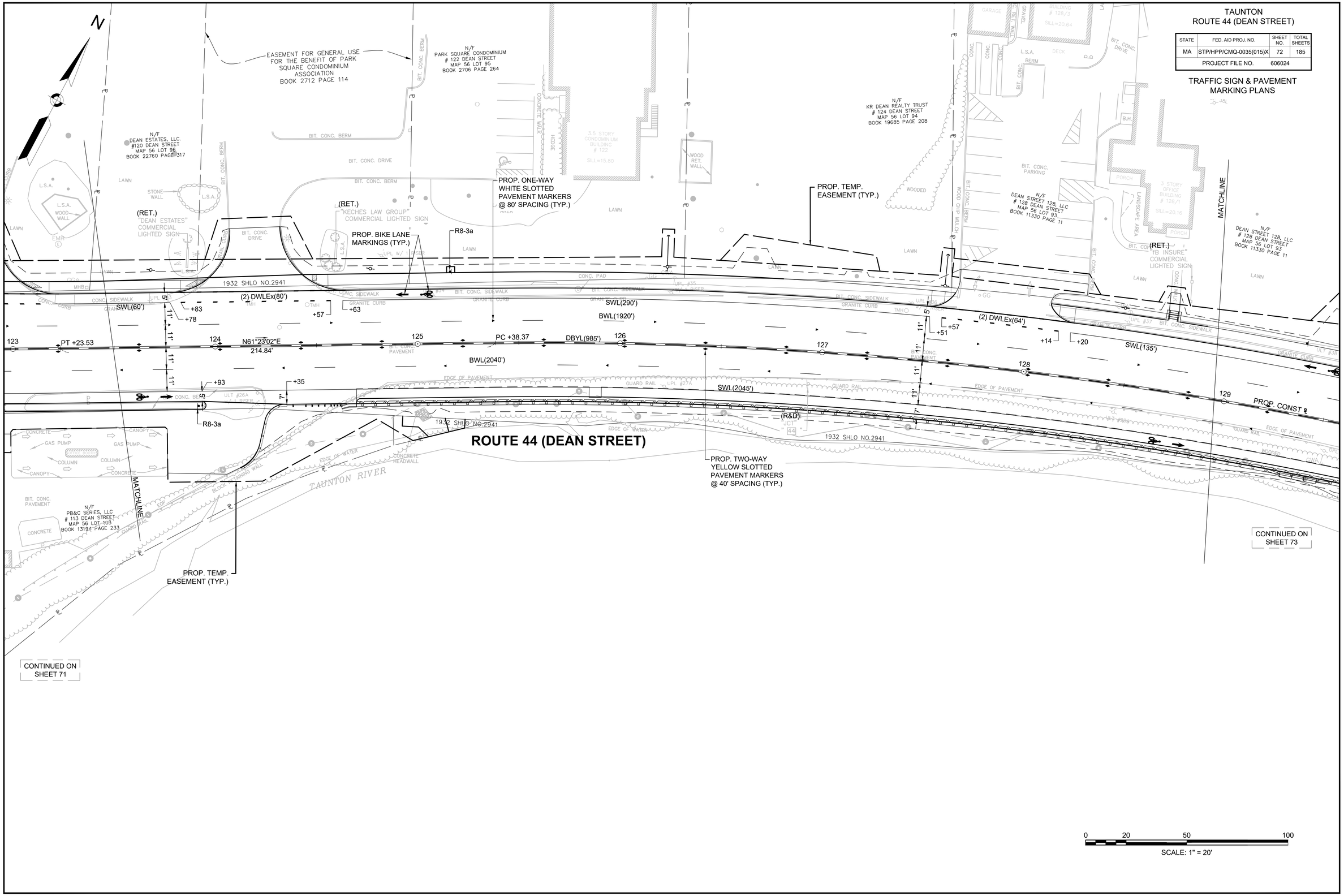
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	72	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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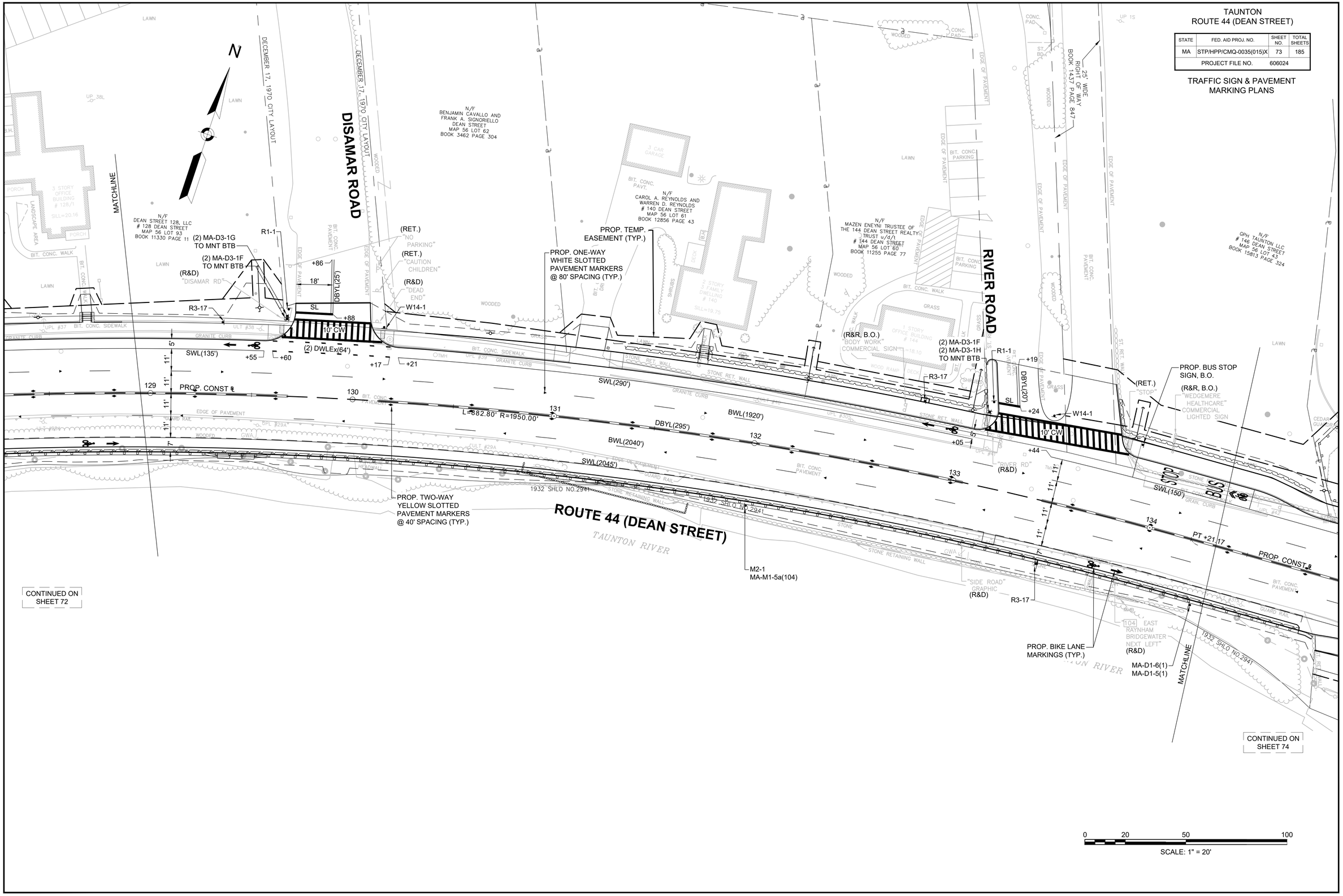
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	73	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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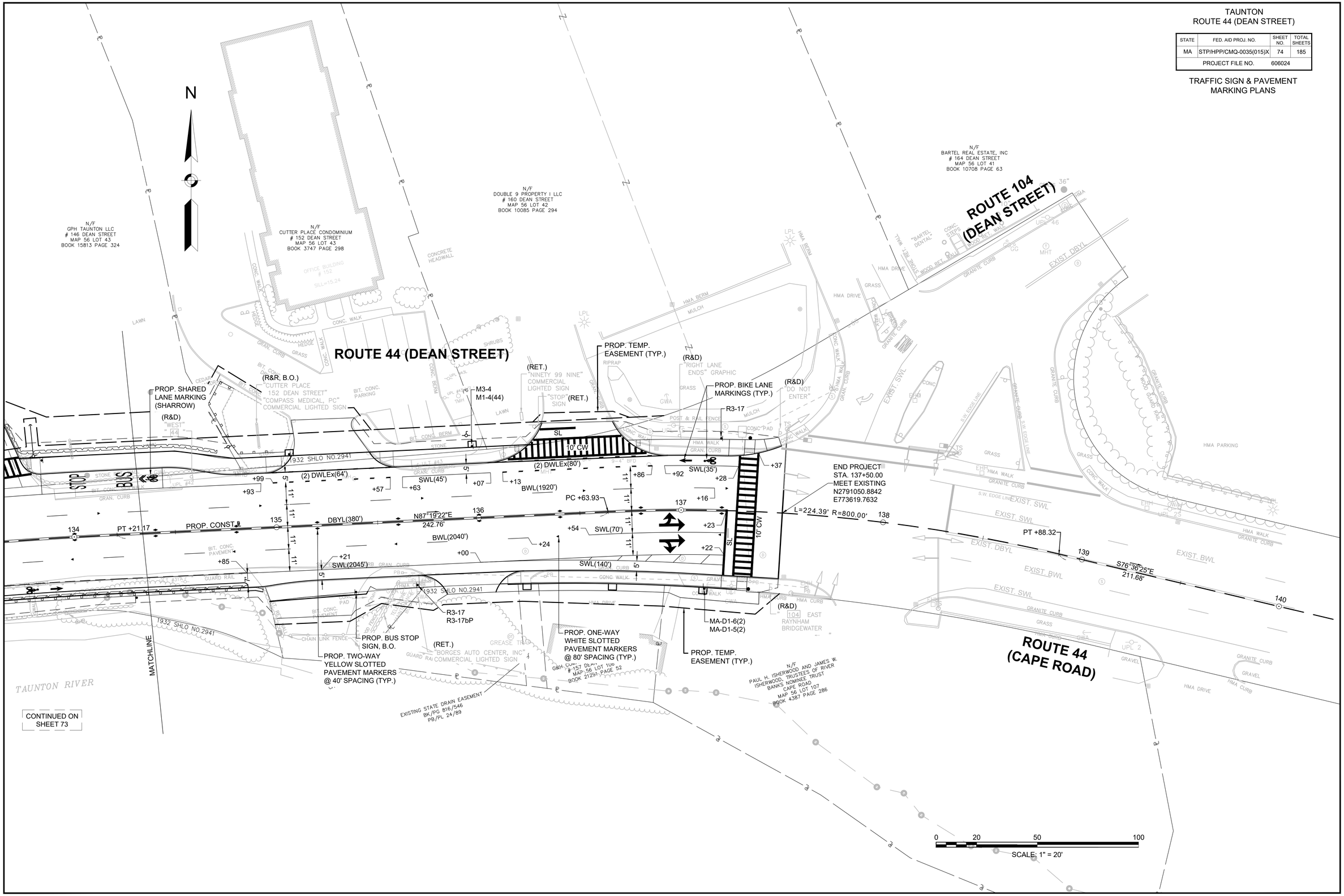
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	74	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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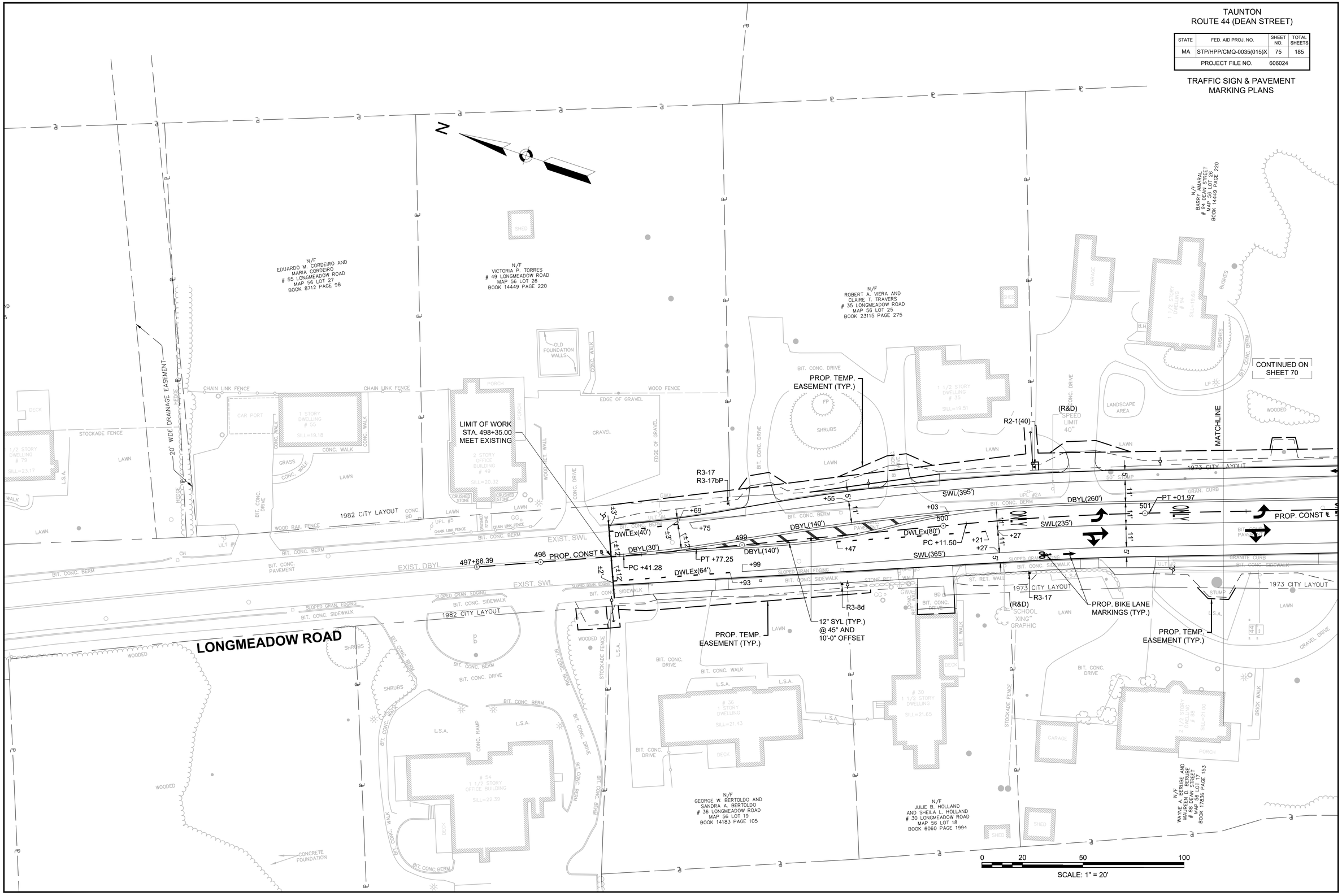
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	75	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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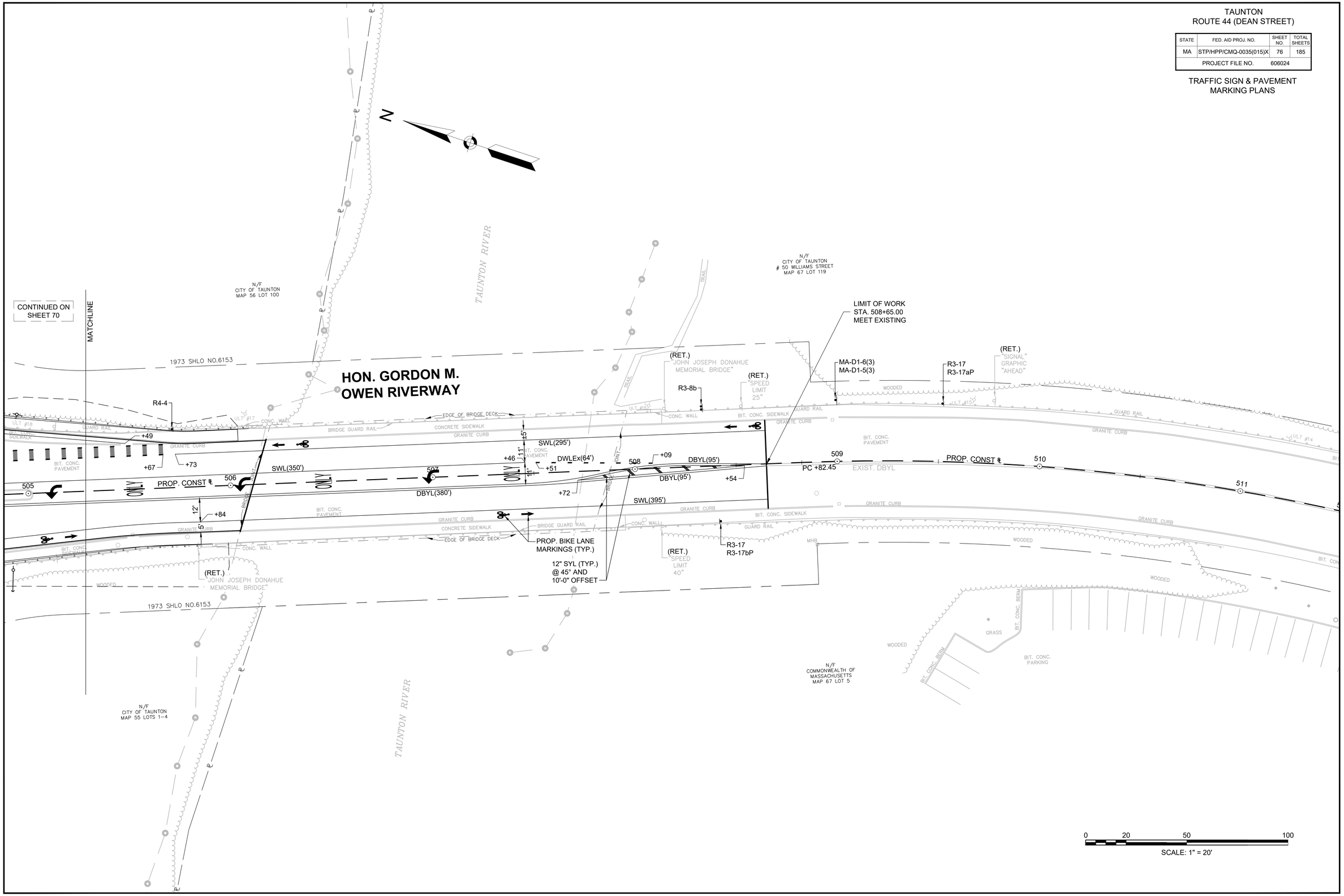
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	76	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN & PAVEMENT MARKING PLANS



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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	77	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN SUMMARY SHEETS

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
R1-1	30	30	STOP	MUTCD STANDARD	MUTCD STANDARD	2	RED	WHITE	WHITE	P5 (2 REQ'D)	6.25	12.50
R2-1(40)	24	30	SPEED LIMIT 40	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
R2-1(40)	30	36	SPEED LIMIT 40	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	7.50	7.50
R3-2	24	24		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK/ RED	BLACK	P5 (2 REQ'D)	4.00	8.00
R3-4	24	24		MUTCD STANDARD	MUTCD STANDARD	3	WHITE	BLACK/ RED	BLACK	MNT w/R4-7	4.00	12.00
R3-8b	48	30	ONLY ONLY ONLY	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	2-P5 (1 REQ'D)	10.00	10.00
R3-8c	48	30	ONLY ONLY	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	2-P5 (2 REQ'D)	10.00	20.00
R3-8d	30	30	ONLY	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
R3-17	24	18	BIKE LANE	MUTCD STANDARD	MUTCD STANDARD	15	BLACK & WHITE	BLACK TEXT/ WHITE SYMBOL	WHITE	P5 (15 REQ'D)	3.00	45.00
R3-17aP	24	8	AHEAD	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	MNT w/R3-17	1.33	1.33
R3-17bP	24	8	ENDS	MUTCD STANDARD	MUTCD STANDARD	4	WHITE	BLACK	BLACK	MNT w/R3-17	1.33	5.33
R4-4	36	30	BEGIN RIGHT TURN LANE YIELD TO BIKES	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	P5 (2 REQ'D)	7.50	15.00
R4-7	24	30		MUTCD STANDARD	MUTCD STANDARD	4	WHITE	BLACK	BLACK	P5 (4 REQ'D)	5.00	20.00
R5-1	30	30	DO NOT ENTER	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	RED	-	1 MNT ON M.A. SUPPORT; 1 MNT w/R3-2	6.25	12.50
R8-3a	24	30	NO PARKING	MUTCD STANDARD	MUTCD STANDARD	8	WHITE	RED	RED	P5 (8 REQ'D)	5.00	40.00
R8-10L	24	36	STOP HERE WHEN FLASHING	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	6.00	6.00
R10-11b	30	30	NO TURN ON RED	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	2 MNT ON M.A.	6.25	12.50
MA-R10-12a	30	36	LEFT TURN YIELD ON FLASHING	MASSDOT STANDARD	MASSDOT STANDARD	4	WHITE	BLACK/ YELLOW	BLACK	4 MNT ON M.A.	7.50	30.00

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
MA-R10-12b	30	36	RIGHT TURN YIELD ON FLASHING	MASSDOT STANDARD	MASSDOT STANDARD	2	WHITE	BLACK/ YELLOW	BLACK	2 MNT ON M.A.	7.50	15.00
W4-2R	36	36		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	9.00	9.00
W9-1R	36	36	RIGHT LANE ENDS	MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	P5 (2 REQ'D)	9.00	18.00
W10-1	36	36	R R	MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	9.00	9.00
W14-1	30	30	DEAD END	MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	P5 (2 REQ'D)	6.25	12.50
OM1-1	24	24		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	YELLOW	YELLOW	P5 (2 REQ'D)	4.00	8.00
MA-D10-4aE (15)	18	36	EAST 44 MILE 15	MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	P5 (1 REQ'D)	4.50	4.50
MA-D10-4aW (15)	18	36	WEST 44 MILE 15	MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	MNT BTB w/ MA-D10-4aE (15)	4.50	4.50
D11-20	12	18	LEFT TURN MAY USE TURN BOX	MUTCD STANDARD	MUTCD STANDARD	4	GREEN	WHITE	WHITE	2 ON P5; 1 ON M.A. SUPPORT; 1 ON SIGNAL POST	1.50	6.00
D11-20a	12	18	LEFT TURN BOX	MUTCD STANDARD	MUTCD STANDARD	4	GREEN	WHITE	WHITE	3 ON P5; 1 ON SIGNAL POST	1.50	6.00
M1-4(44)	24	24	44	MUTCD STANDARD	MUTCD STANDARD	4	BLACK	WHITE SHIELD/ BLACK NUM.	-	P5 (6 REQ'D)	4.00	16.00
MA-M1-5a (104)	30	24	104	MASSDOT STANDARD	MASSDOT STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
MA-I-13	24	30	STATE HIGHWAY BEGINS	MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	P5 (1 REQ'D)	5.00	5.00
MA-I-14	24	30	STATE HIGHWAY ENDS	MASSDOT STANDARD	MASSDOT STANDARD	1	GREEN	WHITE	WHITE	MNT BTB w/MA-I-13	5.00	5.00
M2-1	21	15	JCT	MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	MNT w/ MA-M1-5a(104)	2.19	2.19
M3-2	24	12	EAST	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	3 MNT w/ M1-4(44)	2.00	4.00
M3-4	24	12	WEST	MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	3 MNT w/ M1-4(44)	2.00	4.00

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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	78	185
PROJECT FILE NO.	606024		

TRAFFIC SIGN SUMMARY SHEETS

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
MA-D3-1A	48	18	Dean St	8"D/5.33"D	5" 5"	2	GREEN	WHITE	WHITE	2 MNT ON MAST ARMS	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1B	102	18	Longmeadow Rd →	8"D/5.33"D (12"x8" ARROW)	5" 5"	1	GREEN	WHITE	WHITE	1 MNT ON MAST ARM	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1C	102	18	← Longmeadow Rd	8"D/5.33"D (12"x8" ARROW)	5" 5"	1	GREEN	WHITE	WHITE	1 MNT ON MAST ARM	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1D	138	18	Hon Gordon Owen Rwy →	8"D/5.33"D (12"x8" ARROW)	5" 5"	1	GREEN	WHITE	WHITE	1 MNT ON MAST ARM	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1E	138	18	← Hon Gordon Owen Rwy	8"D/5.33"D (12"x8" ARROW)	5" 5"	1	GREEN	WHITE	WHITE	1 MNT ON MAST ARM	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1F	36	12	Dean St	6"D/4"D	3" 3"	4	GREEN	WHITE	WHITE	2 TO MNT BTB w/MA-D3-1G; P5 (1 REQ'D)	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1G	42	12	Disamar Rd	6"D/4"D	3" 3"	2	GREEN	WHITE	WHITE	2 TO MNT BTB 2-P5 (1 REQ'D)	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D3-1H	36	12	River Rd	6"D/4"D	3" 3"	2	GREEN	WHITE	WHITE	2 TO MNT BTB w/MA-D3-1F	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
MA-D1-5(1)	60	48	BORDER, 1" WIDE, 3" RAD. EAST ↑ 44 Plymouth	18"x8" ARROW 7"C/6"C 18"x18"/9"D 8"C	3" 4" 4" 4"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	MNT W/ MA-D1-6(1)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-5(2)	60	48	BORDER, 1" WIDE, 3" RAD. EAST ↑ 44 Plymouth	18"x8" ARROW 7"C/6"C 18"x18"/9"D 8"C	3" 4" 4" 4"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	MNT W/ MA-D1-6(2)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-5(3)	60	48	BORDER, 1" WIDE, 3" RAD. 44 WEST Providence RI NEXT LEFT	18"x18"/9"D/7"C/6"C 8"C 8"C	3" 4" 4" 3"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	MNT W/ MA-D1-6(3)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-5(4)	60	48	BORDER, 1" WIDE, 3" RAD. 44 WEST Providence RI ←	18"x18"/9"D/7"C/6"C 8"C 18"X8" ARROW	3" 4" 4" 3"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	MNT W/ MA-D1-6(4)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-5(5)	60	48	BORDER, 1" WIDE, 3" RAD. 44 WEST Providence RI →	18"x18"/9"D/7"C/6"C 8"C 18"X8" ARROW	3" 4" 4" 3"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	MNT W/ MA-D1-6(5)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-6(1)	60	66	BORDER, 1" WIDE, 3" RAD. 104 EAST Raynham Bridgewater NEXT LEFT	24"x18"/9"D/7"C/6"C 8"C 8"C 6"C	6.5" 4" 4" 5" 6.5"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	PAY UNDER ITEM 841.1 (MNT ON 5-IN TUBULAR POST)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-6(2)	60	66	BORDER, 1" WIDE, 3" RAD. 104 EAST Raynham Bridgewater ←	24"x18"/9"D/7"C/6"C 8"C 8"C 18"x8" ARROW	5.5" 4" 4" 5" 5.5"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	PAY UNDER ITEM 841.1 (MNT ON 5-IN TUBULAR POST)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-6(3)	60	66	BORDER, 1" WIDE, 3" RAD. 44 EAST Middleboro Plymouth NEXT RIGHT	18"x18"/9"D/7"C/6"C 8"C 8"C 6"C	6.5" 4" 4" 5" 6.5"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	PAY UNDER ITEM 841.01 (MNT ON 5-IN TUBULAR POST)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-6(4)	60	66	BORDER, 1" WIDE, 3" RAD. 44 EAST Middleboro Plymouth →	18"x18"/9"D/7"C/6"C 8"C 8"C 18"X8" ARROW	6.5" 4" 4" 5" 6.5"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	PAY UNDER ITEM 841.01 (MNT ON 5-IN TUBULAR POST)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.
MA-D1-6(5)	60	66	BORDER, 1" WIDE, 3" RAD. 44 EAST Middleboro Plymouth ←	18"x18"/9"D/7"C/6"C 8"C 8"C 18"X8" ARROW	6.5" 4" 4" 5" 6.5"	1	GREEN H/I	SILVER WHITE H/I	WHITE H/I	PAY UNDER ITEM 841.01 (MNT ON 5-IN TUBULAR POST)	PAY UNDER ITEM 831.	PAY UNDER ITEM 831.

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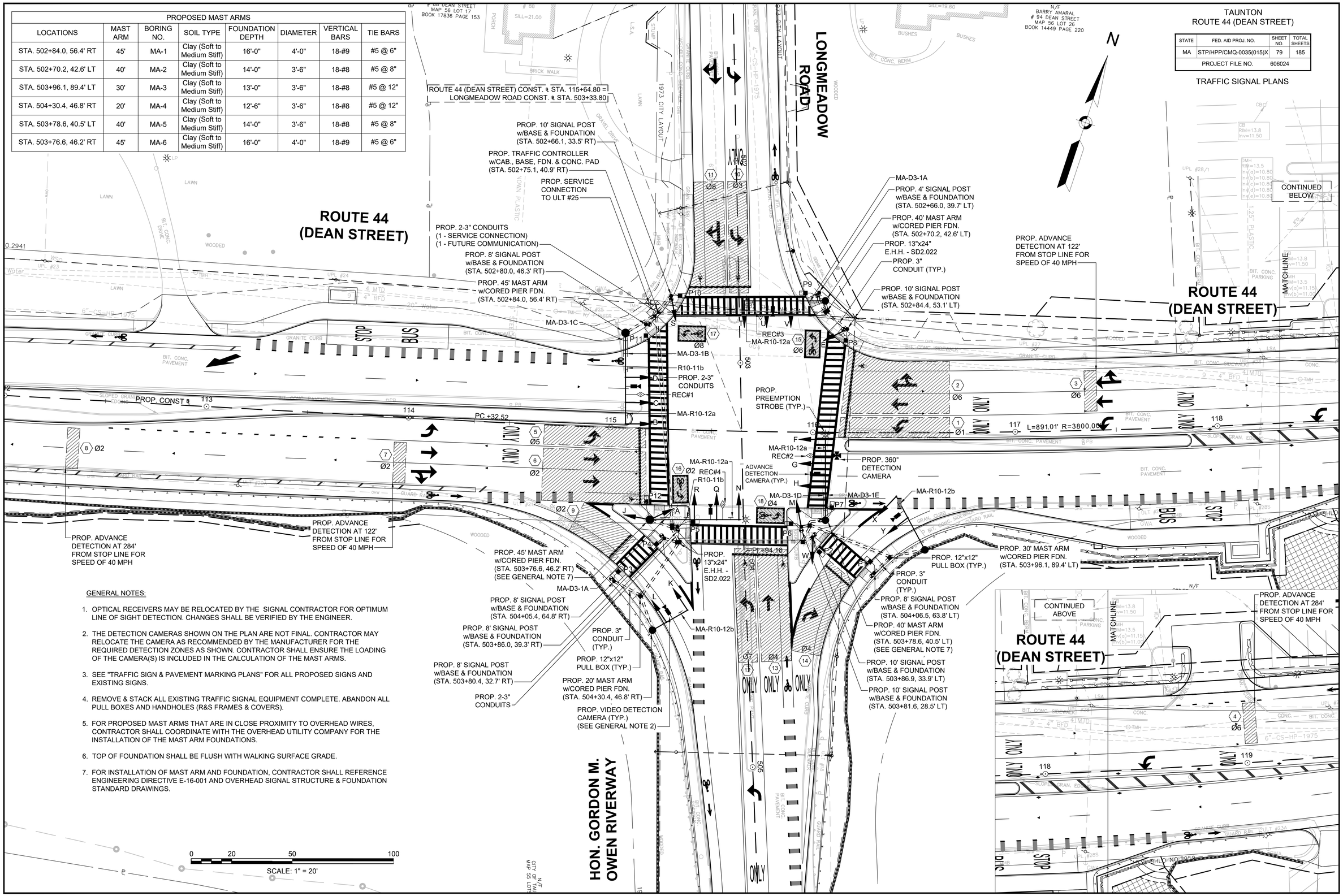
PROPOSED MAST ARMS							
LOCATIONS	MAST ARM	BORING NO.	SOIL TYPE	FOUNDATION DEPTH	DIAMETER	VERTICAL BARS	TIE BARS
STA. 502+84.0, 56.4' RT	45'	MA-1	Clay (Soft to Medium Stiff)	16'-0"	4'-0"	18-#9	#5 @ 6"
STA. 502+70.2, 42.6' LT	40'	MA-2	Clay (Soft to Medium Stiff)	14'-0"	3'-6"	18-#8	#5 @ 8"
STA. 503+96.1, 89.4' LT	30'	MA-3	Clay (Soft to Medium Stiff)	13'-0"	3'-6"	18-#8	#5 @ 12"
STA. 504+30.4, 46.8' RT	20'	MA-4	Clay (Soft to Medium Stiff)	12'-6"	3'-6"	18-#8	#5 @ 12"
STA. 503+78.6, 40.5' LT	40'	MA-5	Clay (Soft to Medium Stiff)	14'-0"	3'-6"	18-#8	#5 @ 8"
STA. 503+76.6, 46.2' RT	45'	MA-6	Clay (Soft to Medium Stiff)	16'-0"	4'-0"	18-#9	#5 @ 6"



GENERAL NOTES:

1. OPTICAL RECEIVERS MAY BE RELOCATED BY THE SIGNAL CONTRACTOR FOR OPTIMUM LINE OF SIGHT DETECTION. CHANGES SHALL BE VERIFIED BY THE ENGINEER.
2. THE DETECTION CAMERAS SHOWN ON THE PLAN ARE NOT FINAL. CONTRACTOR MAY RELOCATE THE CAMERA AS RECOMMENDED BY THE MANUFACTURER FOR THE REQUIRED DETECTION ZONES AS SHOWN. CONTRACTOR SHALL ENSURE THE LOADING OF THE CAMERA(S) IS INCLUDED IN THE CALCULATION OF THE MAST ARMS.
3. SEE "TRAFFIC SIGN & PAVEMENT MARKING PLANS" FOR ALL PROPOSED SIGNS AND EXISTING SIGNS.
4. REMOVE & STACK ALL EXISTING TRAFFIC SIGNAL EQUIPMENT COMPLETE. ABANDON ALL PULL BOXES AND HANDHOLES (R&S FRAMES & COVERS).
5. FOR PROPOSED MAST ARMS THAT ARE IN CLOSE PROXIMITY TO OVERHEAD WIRES, CONTRACTOR SHALL COORDINATE WITH THE OVERHEAD UTILITY COMPANY FOR THE INSTALLATION OF THE MAST ARM FOUNDATIONS.
6. TOP OF FOUNDATION SHALL BE FLUSH WITH WALKING SURFACE GRADE.
7. FOR INSTALLATION OF MAST ARM AND FOUNDATION, CONTRACTOR SHALL REFERENCE ENGINEERING DIRECTIVE E-16-001 AND OVERHEAD SIGNAL STRUCTURE & FOUNDATION STANDARD DRAWINGS.

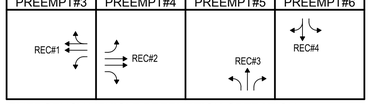
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	80	185
PROJECT FILE NO.	606024		

TRAFFIC SIGNAL PLANS

EMERGENCY VEHICLE PREEMPTION

WB	EB	NB	SB
PREEMPT#3	PREEMPT#4	PREEMPT#5	PREEMPT#6



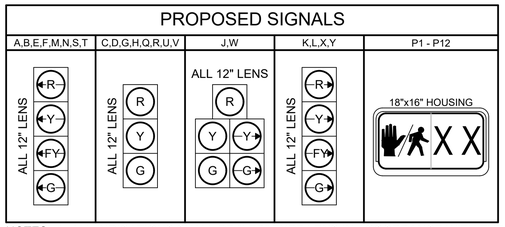
EMERGENCY VEHICLE PREEMPTION OPERATION

1. EMERGENCY VEHICLE PREEMPTION SIGNAL SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS (RECEIVERS) LOCATED AT THE INTERSECTION.
2. PREEMPTION SIGNALS SHALL BE SERVICED ON A FIRST COME FIRST SERVED BASIS. IN A CASE WHERE TWO OR MORE CALLS ARE COMING IN AT THE SAME TIME, PREEMPTION SHALL BE PRIORITIZED WITH PREEMPT #3 (ROUTE 44 WB) FIRST, THEN FOLLOWED BY PREEMPT #4 (ROUTE 44 EB), THEN PREEMPT #5 (HON. GORDON M. OWEN RIVERWAY NB) AND PREEMPT #6 (LONGMEADOW ROAD SB).
3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED BY OPTICAL DETECTOR REC#1 (OR REC#2, REC#3, REC#4), THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PREEMPTION SIGNAL #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME THE RELEVANT CLEARANCE INTERVALS AND SERVICE THE SUBSEQUENT EMERGENCY VEHICLE PREEMPTION SIGNAL IF NECESSARY. NORMAL SIGNAL OPERATION SHALL RESUME PROVIDED THAT ALL PREEMPTION SIGNALS HAVE CEASED.
4. NORMAL VEHICLE CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
5. PREEMPTION STROBE SHALL BE ILLUMINATED ONLY WHEN THE PREEMPTION PHASE IS ON GREEN.

DETECTION DATA

DETECTION ZONE NO.	LOCATION	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	U.S. ROUTE 44 WB LEFT	1	1 & 6	B	-	-
2	U.S. ROUTE 44 WB THRU/RIGHT	6	6	B	-	-
3	U.S. ROUTE 44 WB ADVANCE	6	6	A	-	2 SEC
4	U.S. ROUTE 44 WB ADVANCE	6	6	A	-	2 SEC
5	U.S. ROUTE 44 EB LEFT	5	5 & 2	B	-	-
6	U.S. ROUTE 44 EB THRU/RIGHT	2	2	B	-	-
7	U.S. ROUTE 44 EB ADVANCE	2	2	A	-	2 SEC
8	U.S. ROUTE 44 EB ADVANCE	2	2	A	-	2 SEC
9	U.S. ROUTE 44 EB RIGHT	2	2	B	-	-
10	LONGMEADOW RD SB LEFT	3	3 & 8	B	-	-
11	LONGMEADOW RD SB THRU/RIGHT	8	8	B	-	-
12	H.G.M.O RIVERWAY NB LEFT	7	7 & 4	B	-	-
13	H.G.M.O RIVERWAY NB THRU	4	4	B	-	-
14	H.G.M.O RIVERWAY NB RIGHT	4	4	B	-	-
15	U.S. ROUTE 44 WB BIKE BOX	6	6	B	-	-
16	U.S. ROUTE 44 EB BIKE BOX	2	2	B	-	-
17	LONGMEADOW RD SB BIKE BOX	8	8	B	-	-
18	H.G.M.O RIVERWAY NB BIKE BOX	4	4	B	-	-

PROPOSED SIGNALS



NOTES:
1. ALL INDICATIONS SHALL BE "LED" TYPE LENS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. ALL OVERHEAD SIGNALS SHALL BE RIGIDLY MOUNTED. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH CUT TUNNEL VISORS AND 5" SOLID BACKPLATES.
3. ALL VEHICLE SIGNAL HEAD BACKPLATES SHALL INCLUDE 3" YELLOW RETRO-REFLECTIVE BORDER IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. ALL PEDESTRIAN DISPLAY SHALL BE "FULL" DISPLAYS. NO OUTLINE SYMBOL SHALL BE PERMITTED.

MAJOR ITEMS REQUIRED

QUANTITY	DESCRIPTION
1	ADVANCE TRAFFIC CONTROLLER (ATC) IN AN AC 120V POWERED ATC CABINET WITH FOUNDATION AND CONC. PAD
1	SERVICE CONNECTION (OVERHEAD FROM UTILITY POLE#25)
1	DETECTION SYSTEM WITH 360° CAMERA, ADVANCE DETECTION CAMERAS AND PROCESSORS THAT IS CAPABLE OF STOP LINE PRESENT AND HIGH SPEED DILEMMA ZONE DETECTION AND BICYCLE DETECTION AS SHOWN ON THE PLAN.
2	45' MAST ARM ASSEMBLY w/ GALVANIZED STEEL FINISH, BASE & FDN.
2	40' MAST ARM ASSEMBLY w/ GALVANIZED STEEL FINISH, BASE & FDN.
1	30' MAST ARM ASSEMBLY w/ GALVANIZED STEEL FINISH, BASE & FDN.
1	20' MAST ARM ASSEMBLY w/ GALVANIZED STEEL FINISH, BASE & FDN.
4	10' SIGNAL POST, BASE & FDN.
5	8' SIGNAL POST, BASE & FDN.
1	4' SIGNAL POST, BASE & FDN.
8	SIGNAL HEAD, 3 SECTION
12	SIGNAL HEAD, 4 SECTION
2	SIGNAL HEAD, 5 SECTION
12	PEDESTRIAN HOUSING GRAPHIC LED WITH COUNTDOWN TIMER
12	AUDIBLE & VIBRO-TACTILE PEDESTRIAN PUSH BUTTON (APS TYPE) INTEGRATED R10-3e SIGN & SADDLE w/LED CONFIRMATION LIGHT
4	PULL BOX 12"x12" - SD2.031 (PAY SEPARATELY UNDER ITEM 811.31)
3	ELECTRIC HANDHOLE - SD2.022 (PAY SEPARATELY UNDER ITEM 811.22)
4	UNIDIRECTIONAL SINGLE CHANNEL OPTICAL DETECTOR (RECEIVER)
2	PREEMPTION CONFIRMATION STROBE (CLEAR)

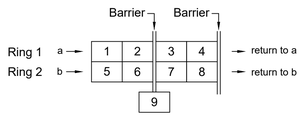
PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

APS BUTTON - AUDIBLE (SPEECH) MESSAGES

TO BE PROVIDED DURING THE WALK INTERVAL OF THE PEDESTRIAN PHASE AS FOLLOWED:

PEDESTRIAN HEAD	PHASE #	SPEECH WALK MESSAGE
P2	Ø2	"DEAN. WALK SIGN IS ON TO CROSS DEAN."
	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."
P4	Ø8	"DEAN. WALK SIGN IS ON TO CROSS DEAN."
	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."
P5	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."
P6	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."
P7	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."
P12	Ø9	"WALK SIGN IS ON FOR ALL CROSSINGS."

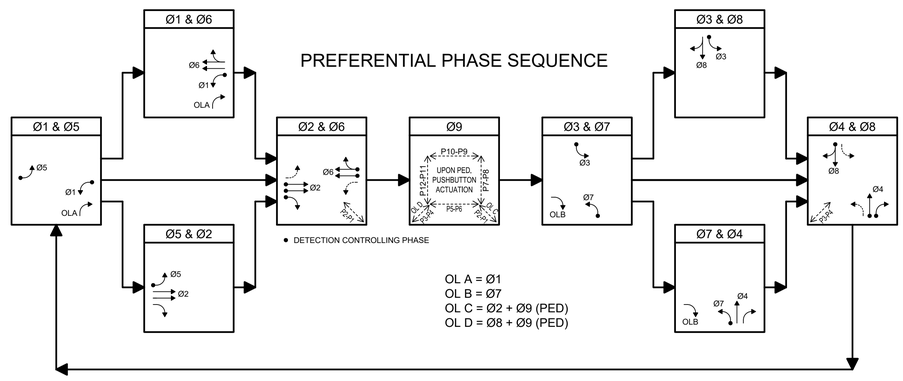
RING STRUCTURE



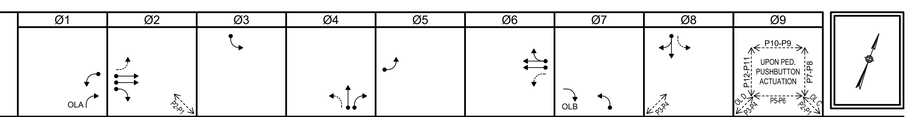
TRAFFIC CONTROLLER DATA

PARAMETER	SELECTION
PHASE ASSIGNMENTS	STD. NEMA
OVERLAPS	STD. NEMA
RINGS	DUAL
DUAL ENTRY	ON (Ø4 & Ø8)
SIMULTANEOUS GAP OUT DISABLED	YES (Ø2 & Ø6) (Ø4 & Ø8)
MINIMUM YELLOW IN SECONDS	3
MAX II BY INTERNAL CLOCK	YES
NIGHT TIME FLASH BY INTERNAL CLOCK	NOT USED

PREFERENTIAL PHASE SEQUENCE



FULLY-ACTUATED ☑ ISOLATED ☑
SEMI-ACTUATED ☐ COORDINATED ☐
PRE-TIMED ☐ SPREAD SPECTRUM RADIO ☐



SEQUENCE AND TIMING

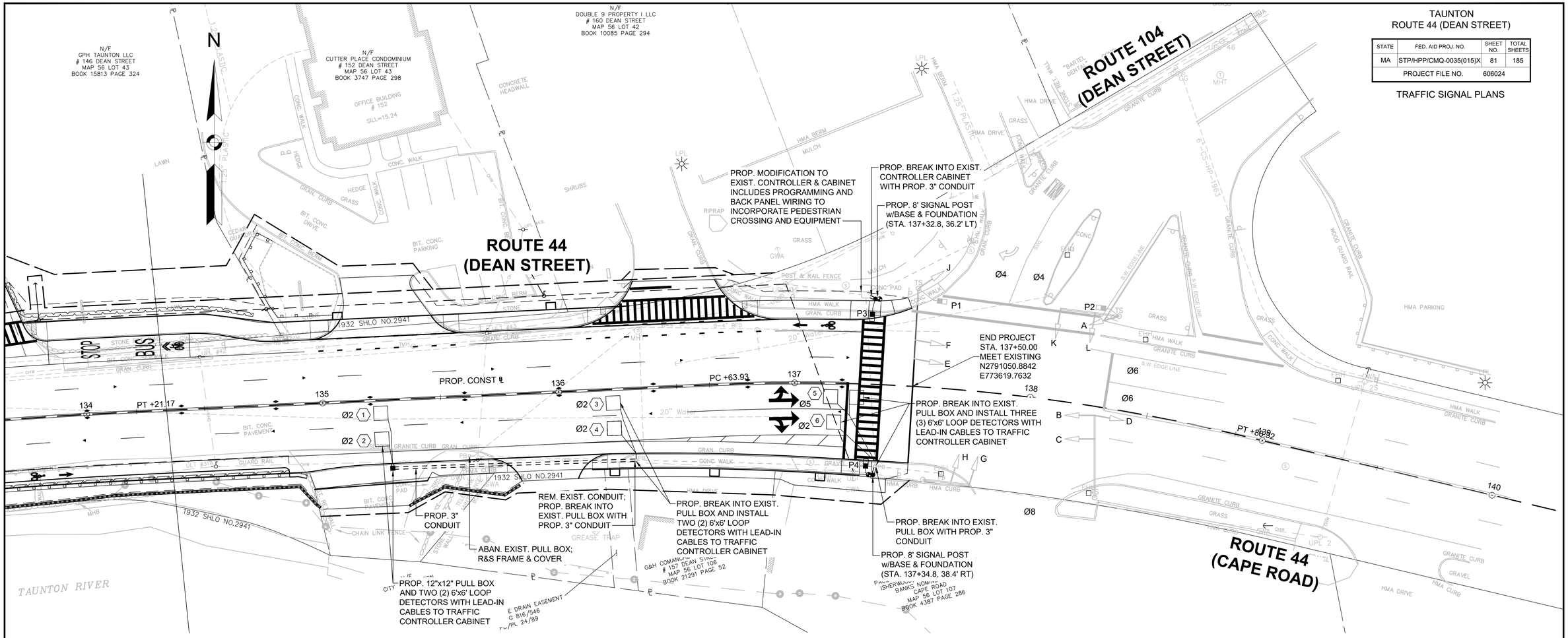
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASH OPER.
DEAN STREET (U.S. ROUTE 44)	WB	A,B	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL
DEAN STREET (U.S. ROUTE 44)	WB	C,D	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
DEAN STREET (U.S. ROUTE 44)	EB	E,F	RL	RL	RL	FYL	YL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL
DEAN STREET (U.S. ROUTE 44)	EB	G,H	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
DEAN STREET (U.S. ROUTE 44)	EB	J	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R/GR	R/YR	R	R	R	R	R	R	R	FY
DEAN STREET (U.S. ROUTE 44)	EB	K,L	RR	RR	RR	FYR	YR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	GR	YR	RR	RR	RR	RR	RR	RR	RR	FYR
LONGMEADOW ROAD	SB	M,N	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL	YL	RL	RL	RL	RL	FRL
LONGMEADOW ROAD	SB	Q,R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR
HON. GORDON M. OWEN RIVERWAY	NB	S,T	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL	YL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	FRL
HON. GORDON M. OWEN RIVERWAY	NB	U,V	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
HON. GORDON M. OWEN RIVERWAY	NB	W	R/GR	R/YR	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
HON. GORDON M. OWEN RIVERWAY	NB	X,Y	GR	YR	RR	RR	RR	RR	RR	RR	RR	FYR	YR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	FR
PEDESTRIAN		P1-P2	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
PEDESTRIAN		P3-P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
PEDESTRIAN		P5-P12	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
TIMING IN SECONDS																														
MINIMUM INITIAL			6			6			6			6			6			6			6			6						EMERGENCY
PASSAGE			2			2			2			2			2			2			2			2						
MAXIMUM 1 (ALL OTHER TIMES)			16			42			8			32			8			50			10			30						
MAXIMUM 2 (MON-FRI: 6:30am - 9:30am)			10			44			8			32			10			44			14			26						
CHANGE				4.5	1.0		4.5	1.0		4.5	1.5		4.5	1.5		4.5	1.0		4.5	1.0		4.5	1.5		4.5	1.5				
PEDESTRIAN						7/7																		7/6			7	20	4	
RECALL			OFF			SOFT			OFF			OFF			OFF			SOFT			OFF			OFF			OFF			
MEMORY			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			LOCKING			

606024_HD_(TS).DWG Plotted on 26-Aug-2022 5:49 PM

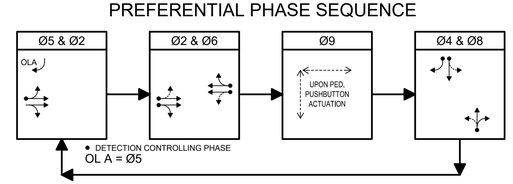
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	81	185
PROJECT FILE NO.	606024		

TRAFFIC SIGNAL PLANS



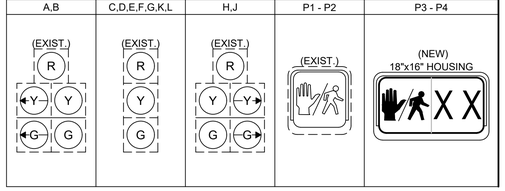
PREFERENTIAL PHASE SEQUENCE



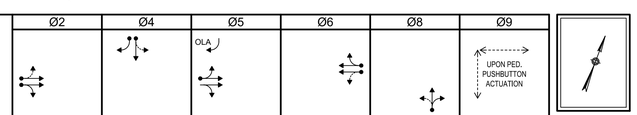
GENERAL NOTES:

1. ALL TRAFFIC SIGNAL EQUIPMENT ARE EXISTING AND SHALL BE RETAINED UNLESS OTHERWISE NOTED.
2. PROPOSED TRAFFIC SIGNAL WORK AT THIS LOCATION INCLUDES THE INSTALLATION OF TWO 8' PEDESTRIAN SIGNAL POSTS, SIGNAL HEADS AND APS PUSH BUTTONS. WORK INCLUDES INSTALLATION OF 6'x6' LOOP DETECTORS AS SHOWN INCLUDING NEW LEAD-IN CABLES AS NECESSARY.
3. THE PROPOSED LOOP DETECTORS ARE BASED ON TRAFFIC SIGNAL LAYOUT NO. 51365 FOR REPLACEMENT OF EXISTING LOOP DETECTORS.
4. WORK ALSO INCLUDES INSTALLATION OF PULL BOX AND 3" CONDUITS TO CONNECT THE PEDESTRIAN SIGNAL POSTS TO THE EXISTING TRAFFIC SIGNAL SYSTEM.

SIGNAL IDENTIFICATION



FULLY-ACTUATED	☑	ISOLATED	☑
SEMI-ACTUATED	☐	COORDINATED	☐
PRE-TIMED	☐	SPREAD SPECTRUM RADIO	☐



SEQUENCE AND TIMING

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASH OPER.
U.S. ROUTE 44	EBL	A,B	G	Y	R	R	R	R	G/GL	Y/YL	R	R	R	R	R	R	R	R	R	R	FRL
U.S. ROUTE 44	EB	C	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
U.S. ROUTE 44	WB	D,E,F	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FRL
ROUTE 104	SB	G	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
ROUTE 104	SB	H,J	R	R	R	G	Y	R	R/GR	R/YR	R	R	R	R	R	R	R	R	R	R	FY
LIQUOR STORE DRIVE	NB	K,L	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY
PEDESTRIAN		ALL	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
TIMING IN SECONDS																					
MINIMUM INITIAL			12			6			6			12			6						EMERGENCY
PASSAGE			1.5			2			1.5			1.5			2						
MAXIMUM 1			40			20			12			40			20						
MAXIMUM 2			60			25			12			60			25						
CHANGE				4	1		4	1		3	1		4	1		4	1				
PEDESTRIAN																		7	17	4	
RECALL			SOFT			OFF			OFF			SOFT			OFF			OFF			
MEMORY			LOCKING			NON-LOCKING			NON-LOCKING			LOCKING			NON-LOCKING			LOCKING			

MAJOR ITEMS REQUIRED

QUANTITY	DESCRIPTION
1	MODIFICATION TO EXIST. CONTROLLER/CABINET AND PROGRAMMING TO INCORPORATE COUNTDOWN PEDESTRIAN SIGNALS & APS PUSHBUTTONS
2	8' SIGNAL POST, BASE & FDN.
2	PEDESTRIAN HOUSING GRAPHIC LED WITH COUNTDOWN TIMER
2	AUDIBLE & VIBRO-TACTILE PEDESTRIAN PUSH BUTTON (APS TYPE) INTEGRATED R10-3e SIGN & SADDLE w/LED CONFIRMATION LIGHT
7	ROADWAY VEHICLE LOOP DETECTOR (6'x6')
1	PULL BOX 12"x12" - SD2.031 (PAY SEPARATELY UNDER ITEM 811.31)
110'	3" ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL) (SCHEDULE 80) (PAY SEPARATELY UNDER ITEM 804.3)

PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

0 20 50 100

SCALE: 1" = 20'

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TRAFFIC SIGNAL LEGEND

EXISTING | PROPOSED

- CONTROL CABINET GROUND MOUNTED (WITH & WITHOUT CONC. PAD)
- CONTROL CABINET POLE MOUNTED
- FLASHING BEACON CONTROL & METER PEDESTAL
- PULL BOX (12" x 12" OR AS NOTED)
- MAST ARM, SHAFT & BASE (ARM LENGTH AS NOTED)
- SIGNAL POST & BASE (ALPHA-NUMERIC DESIGNATION NOTED)
- VEHICULAR SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION NOTED)
- VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED (ALPHA-NUMERIC DESIGNATION NOTED)
- FLASHING BEACON (ALPHA-NUMERIC DESIGNATION NOTED)
- PEDESTRIAN SIGNAL HEAD (ALPHA-NUMERIC DESIGNATION NOTED)
- EMERGENCY PREEMPTION OPTICAL DETECTOR
- PEDESTRIAN PUSH BUTTON, SIGN & SADDLE
- WIRE LOOP DETECTOR (6' x 6' OR AS NOTED)
- HIGH MAST POLE OR TOWER
- MAGNETOMETER
- RADAR DETECTOR (RD)
- SIGNAL & LIGHTING MAST ARM
- TRAFFIC SIGN & POST
- Ø1 CONTROLLER PHASE ACTUATED
- ZONE OF DETECTION FOR SPECIAL DETECTORS
- ZONE OF VISIBILITY FOR PROGRAMMED SIGNAL
- TRAFFIC SIGNAL HEAD (12" LENSES OR AS NOTED)
- DON'T WALK / WALK / COUNTDOWN TIMER
- OHW — OVERHEAD WIRE(S)
- DIRECT BURIAL CABLE
- TRAFFIC SIGNAL CONDUIT
- CONDUIT CROSSING ROADWAY WITH CONTROLLED DENSITY FILL

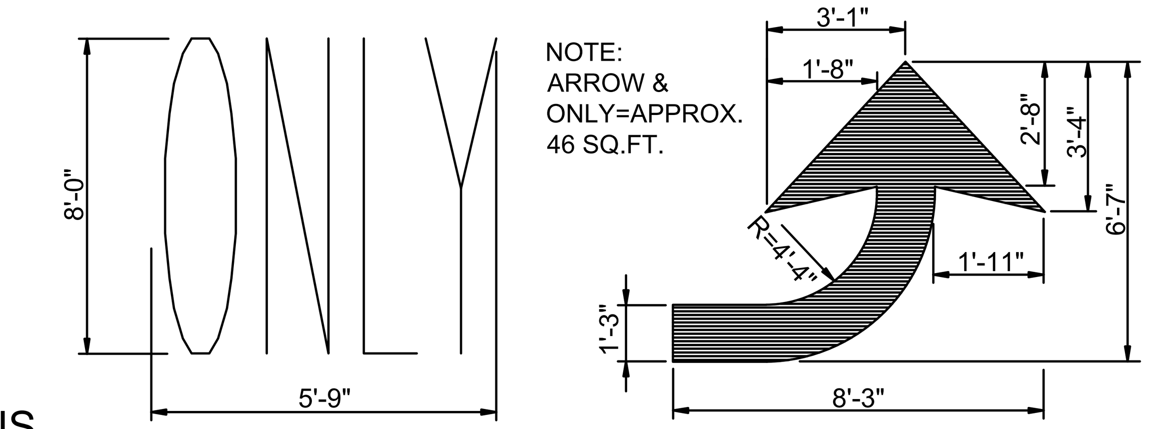
GENERAL ABBREVIATIONS

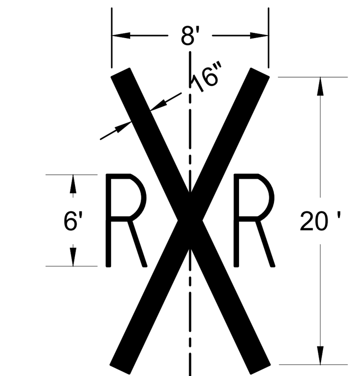
MAX	MAXIMUM
MIN	MINIMUM
BO	BY OTHERS
PROP	PROPOSED
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND RESET
R & S	REMOVE AND STACK
REM	REMOVE
RET	RETAIN

TRAFFIC SIGNAL ABBREVIATIONS

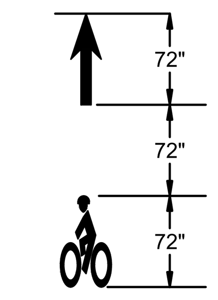
R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR AMBER
G	STEADY CIRCULAR GREEN
RL	STEADY RED LEFT ARROW
YL	STEADY AMBER LEFT ARROW
GL	STEADY GREEN LEFT ARROW
GV	STEADY GREEN VERTICAL ARROW
RR	STEADY RED RIGHT ARROW
YR	STEADY AMBER RIGHT ARROW
GR	STEADY GREEN RIGHT ARROW
FR	FLASHING CIRCULAR RED
FY	FLASHING CIRCULAR AMBER
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
W	WALK - LUNAR WHITE
DW	DON'T WALK - PORTLAND ORANGE
FDW	FLASHING DON'T WALK - PORTLAND ORANGE
L	DETECTOR - LOCK
NL	DETECTOR - NON-LOCK
→	VEHICLE MOVEMENT
↔	PEDESTRIAN MOVEMENT
	PERMISSIVE VEHICULAR MOVEMENT
	DETECTOR CONTROLLING PHASE

VEHICLE MOVEMENT, PEDESTRIAN MOVEMENT, PERMISSIVE VEHICULAR MOVEMENT, DETECTOR CONTROLLING PHASE: ONLY SHOWN ON PHASING DIAGRAMS

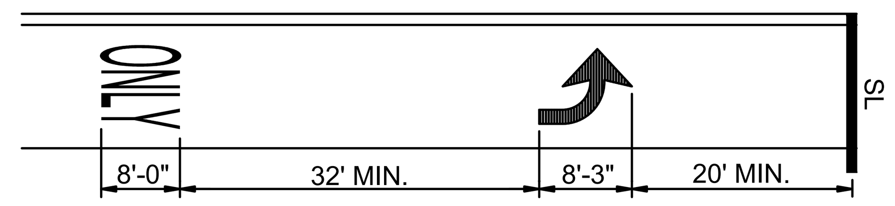




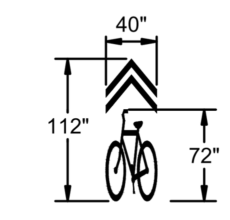
RAILROAD CROSSING PAVEMENT MARKING
NOT TO SCALE



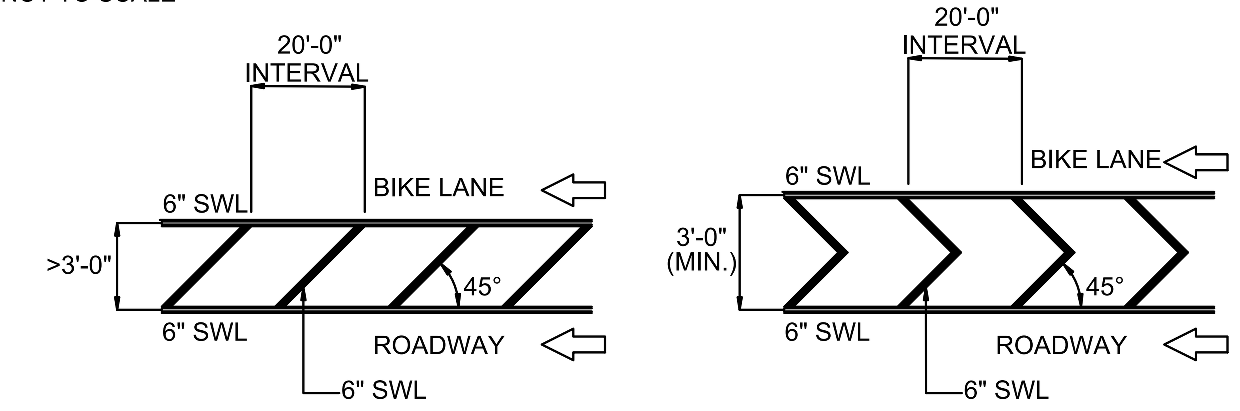
HELMETED BIKE LANE MARKING DETAIL
NOT TO SCALE



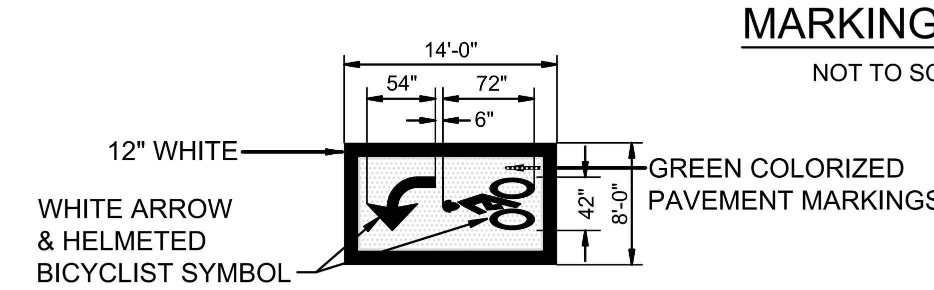
ARROW & ONLY DETAIL
NOT TO SCALE



SHARED LANE "SHARROW" MARKING DETAIL
NOT TO SCALE



BICYCLE BUFFER DETAIL
NOT TO SCALE



NOTE: SEE MUTCD INTERIM APPROVAL FOR OPTIONAL USE OF TWO-STAGE BICYCLE TURN BOX (IA-20) DATED 7/13/2017

TWO-STAGE BICYCLE TURN BOX MARKING DETAIL
NOT TO SCALE

GENERAL NOTES

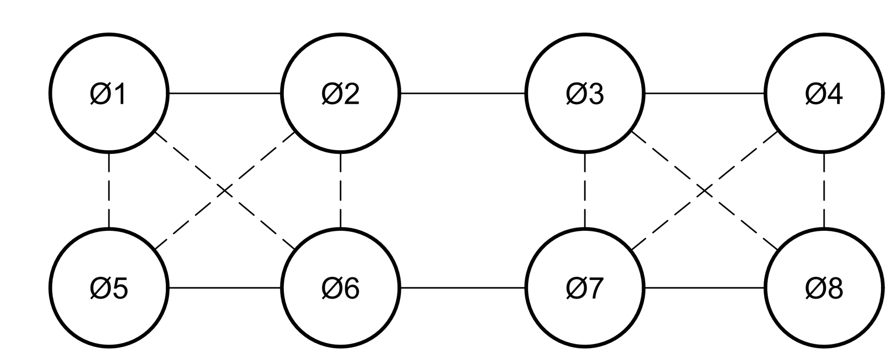
1. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
2. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

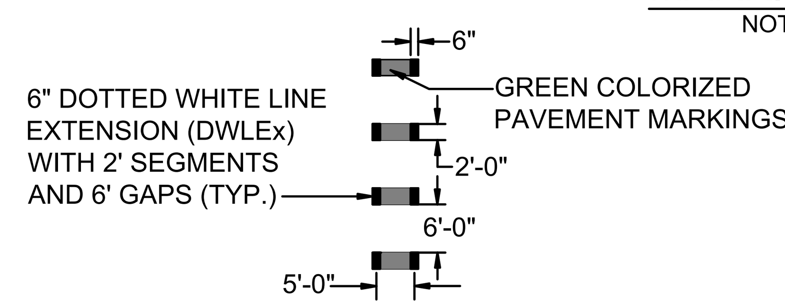
TRAFFIC SIGNAL NOTES

1. SEE CONSTRUCTION AND TRAFFIC PLANS FOR ADDITIONAL DETAILS.
2. PROPOSED CONTROLLERS SHALL BE NEMA TS2, KEYBOARD ENTRY, MENU-DRIVEN TYPE WITH INTERNAL COORDINATION CAPABILITIES, UNLESS OTHERWISE NOTED IN THE MAJOR ITEMS.
3. POLE-MOUNTED SIGNALS SHALL BE MOUNTED TO PROVIDE A 2-FOOT MINIMUM HORIZONTAL CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURBLINE AND THE SIGNAL VISOR. WHEN FEASIBLE, INSTALL AT BACK OF SIDEWALK UNLESS OTHERWISE NOTED. PROVIDE SPECIAL MOUNTING HARDWARE AS REQUIRED.
4. CONSTRUCTION OF THE TRAFFIC CONTROL SIGNAL SYSTEMS SHOWN ON THE FOLLOWING DRAWINGS SHALL CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT'S "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 2022 ED. AS AMENDED, AND THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION AS AMENDED.
5. ALL TRAFFIC CONTROL SIGNAL EQUIPMENT SHALL BE LISTED ON THE CURRENT MASSDOT'S "APPROVED LIST" AND IS SUBJECT TO THE APPROVAL OF THE DESIGN ENGINEER AND/OR MASSDOT.
6. ALL OVERHEAD CONDUCTORS FOR SIGNAL HOUSINGS SHALL BE STRANDED WIRE.
7. ALL PROPOSED WIRE LOOP DETECTORS SHALL BE CENTERED WITHIN RESPECTIVE LANES UNLESS OTHERWISE NOTED.
8. ALL PROPOSED LENSES SHALL HAVE TUNNEL VISORS.
9. ALL MAST ARM MOUNTED SIGNALS SHALL BE RIGIDLY MOUNTED.
10. FLASHING OPERATION PER 2009 M.U.T.C.D., SECTION 4D.28 - 4D.31.
11. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S).
12. ALL NEW TRAFFIC CONTROLLER CABINETS SHALL BE EQUIPPED WITH A LEVER-TYPE METER BY-PASS. SPECIFICATIONS FOR THE BY-PASS MUST BE APPROVED BY THE APPROPRIATE UTILITY COMPANY.
13. WHERE CALLED FOR ON THE PLANS, THE PROPOSED LOCATIONS OF THE OPTICAL DETECTOR UNITS AND CONFIRMATION BEACON ARE PERCEIVED BEST BUT NOT FINAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE OPTIMUM PLACEMENT IN COOPERATION WITH THE LOCAL MUNICIPALITY'S FIRE DEPARTMENT. THE OPTICAL DETECTOR UNITS SHALL HAVE AN UNOBSTRUCTED LINE-OF-SIGHT VIEW ALONG THE ROUTE OF APPROACHING PRIORITY VEHICLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND VERIFYING THAT THERE IS SUFFICIENT CLEARANCE BETWEEN ALL PROPOSED TRAFFIC SIGNAL POLES AND EXISTING AND RELOCATED OVERHEAD UTILITY LINES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH THE AFFECTED UTILITY COMPANIES RELATIVE TO THE SCOPE OF ANY REQUIRED RELOCATIONS. THIS SHALL BE PERFORMED WITHIN TEN DAYS AFTER AWARD OF THE CONTRACT.
15. THE CONTRACTOR SHALL REMOVE AND DELIVER ALL EXISTING TRAFFIC SIGNAL EQUIPMENT WITHIN THE PROJECT LIMITS TO THE APPROPRIATE OWNER'S MAINTENANCE DEPOT EXCEPT FOR LOCATIONS NOTED ON THE PLANS.
16. ALL SIGNS INSTALLED ON MAST ARM SHALL BE BOLTED THROUGH THE SIGN FACE. SIGNS SHALL NOT HANG BELOW THE MAST ARM.

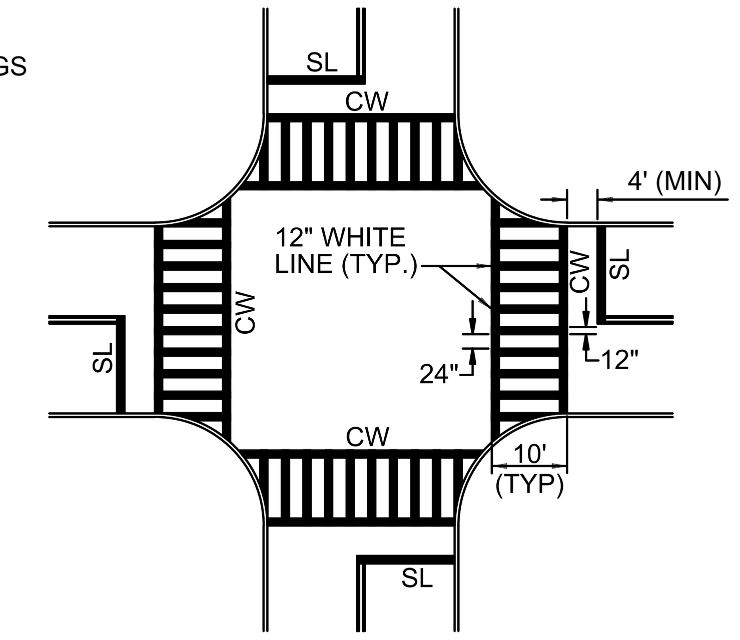
NEMA DUAL RING PHASING NOTES

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

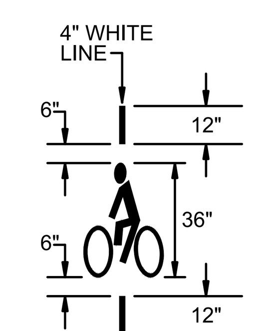




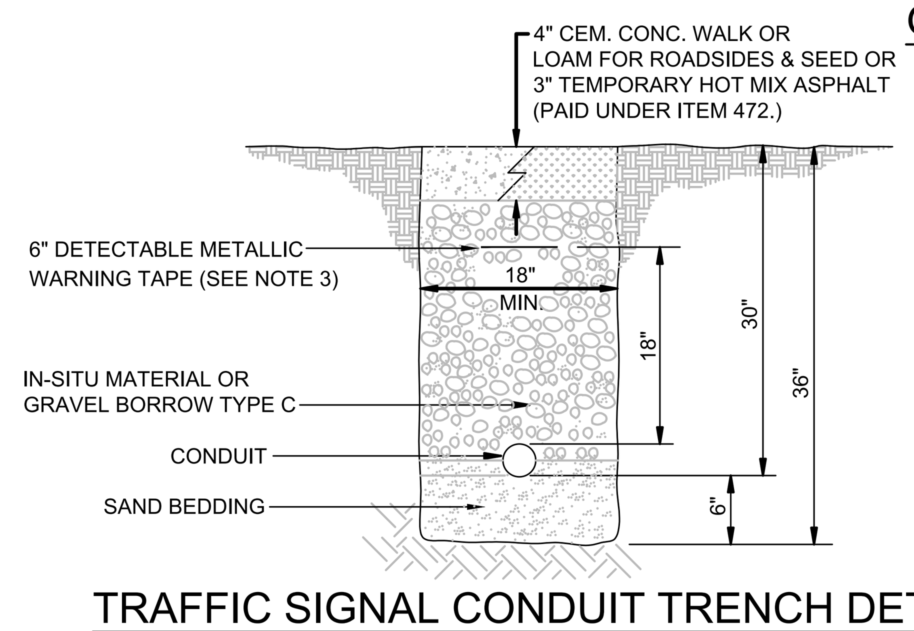
GREEN BICYCLE CROSSING @ AREAS CONFLICTING WITH VEHICLES
NOT TO SCALE



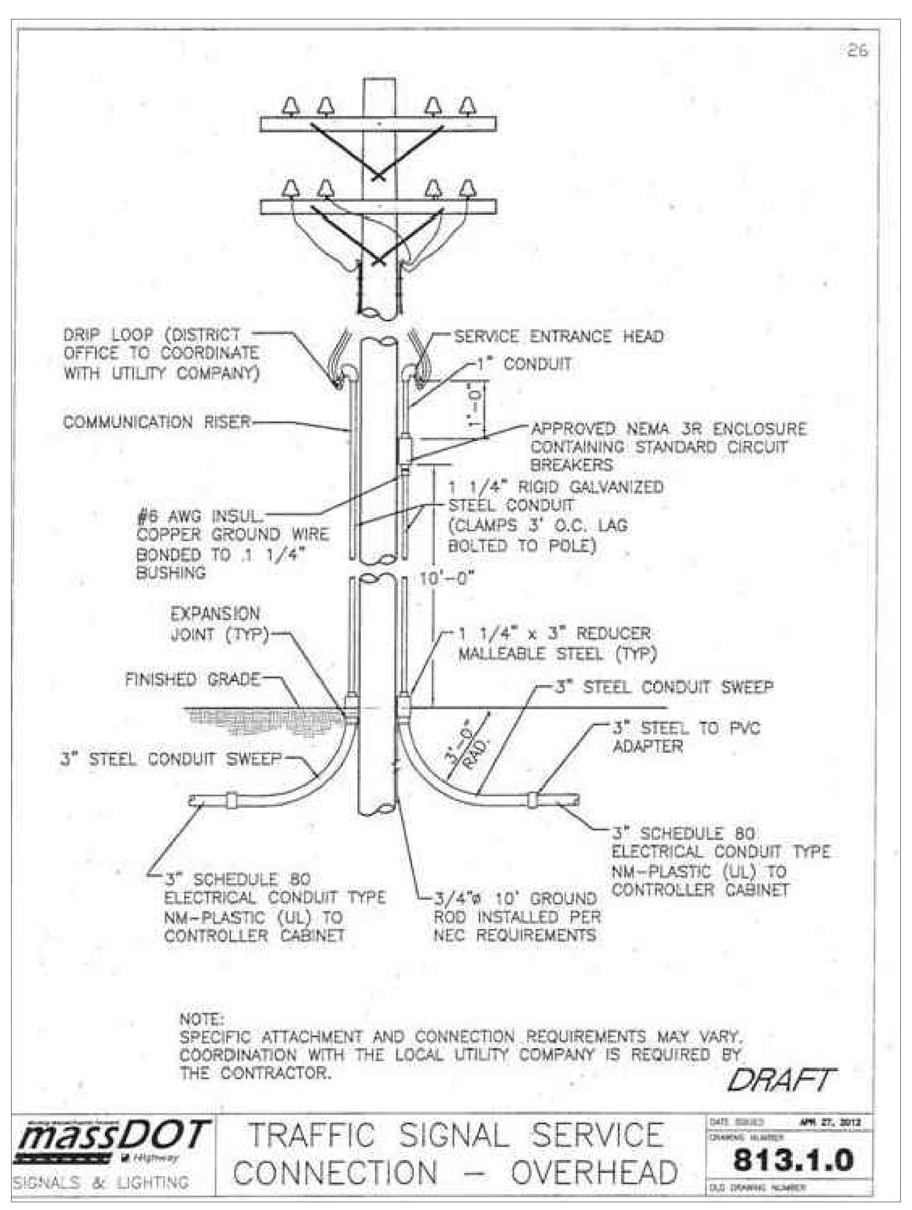
HIGH VISIBILITY CROSSING MARKINGS
NOT TO SCALE

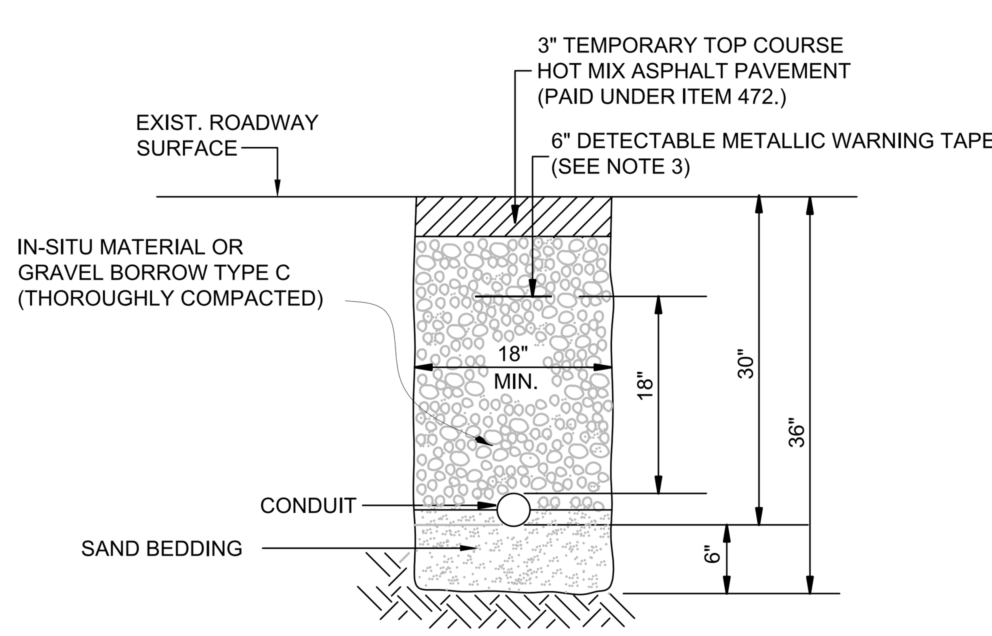


BICYCLE LEGEND MARKING DETAIL
NOT TO SCALE

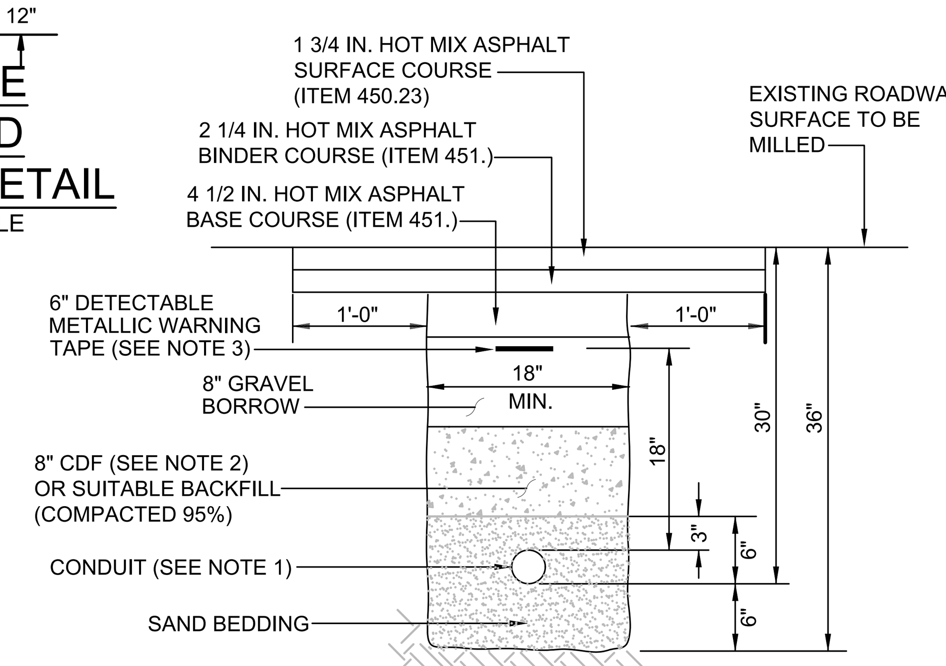


TRAFFIC SIGNAL CONDUIT TRENCH DETAIL (IN SIDEWALK OR LANDSCAPE AREA)
NOT TO SCALE



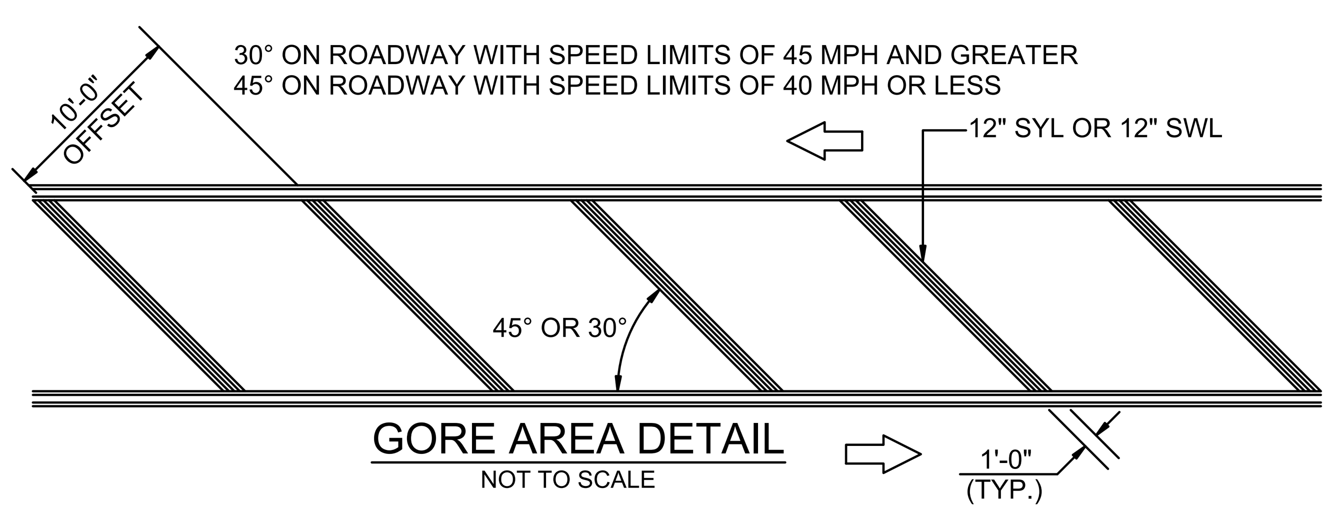


TEMPORARY PATCH TRAFFIC SIGNAL CONDUIT TRENCH DETAIL (IN ROADWAY WITHIN FULL DEPTH AREA)
NOT TO SCALE



NOTES:
1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL), WITH PULL ROPE, UNLESS OTHERWISE APPROVED BY MASSDOT.
2. EXCAVATABLE CONTROLLED DENSITY FILL TYPE 2E, IF REQUIRED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF SUBSECTION M4.08.0.
3. WARNING TAPE COLOR SHALL BE PER APWA STANDARDS.
4. HMA INTERMEDIATE AND BASE COURSE SHALL BE PAID FOR UNDER ITEM 451.
5. EXCAVATABLE CONTROLLED DENSITY FILL ONLY REQUIRED IN CONDUIT TRENCHES LOCATED WITHIN AREAS OF EXIST. ROADWAY PAVEMENT THAT DO NOT REQUIRE FULL DEPTH PAVEMENT CONSTRUCTION.

TRAFFIC SIGNAL CONDUIT TRENCH DETAIL (IN ROADWAY TO BE MILLED)
NOT TO SCALE



GORE AREA DETAIL
NOT TO SCALE

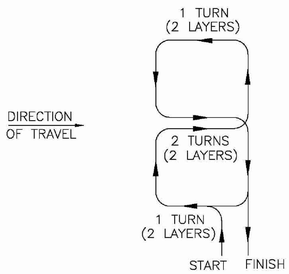
Plotted on 26-Aug-2022 5:49 PM
606024_HD_(TL).DWG

TAUNTON
ROUTE 44 (DEAN STREET)

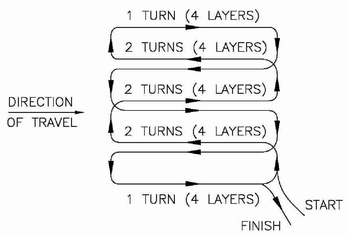
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	83	185
PROJECT FILE NO.	606024		

LOOP DETECTOR DETAILS

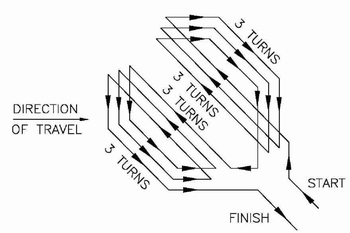
WINDING DETAILS



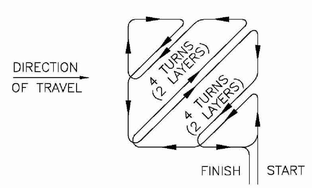
TYPE Q DETECTOR



TYPE D–Q DETECTOR

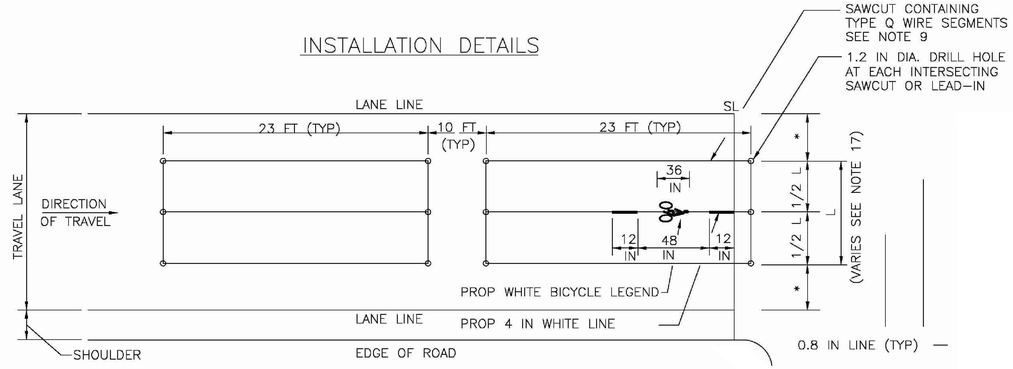


TYPE D–1 DETECTOR

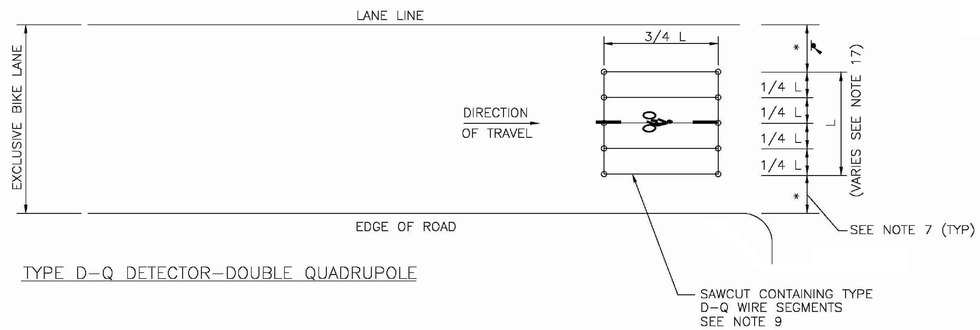


TYPE D–2 DETECTOR

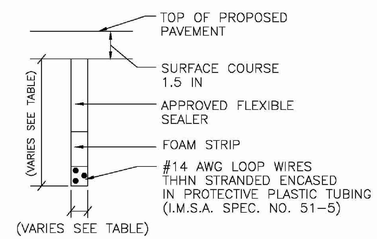
INSTALLATION DETAILS



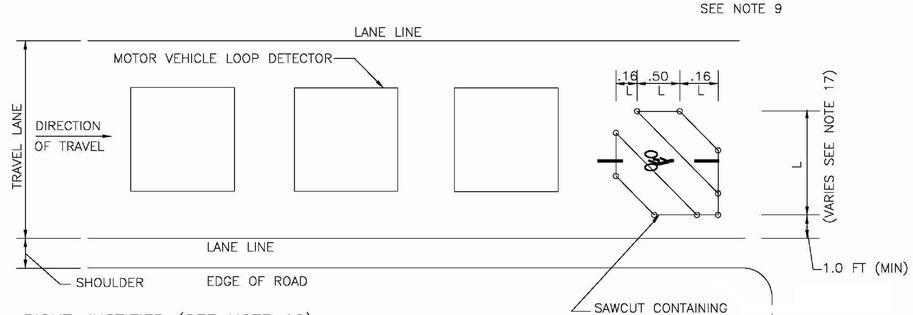
TYPE Q DETECTOR–STANDARD QUADRUPOLE
WITH STANDARD PAVEMENT MARKINGS AND SIGNING



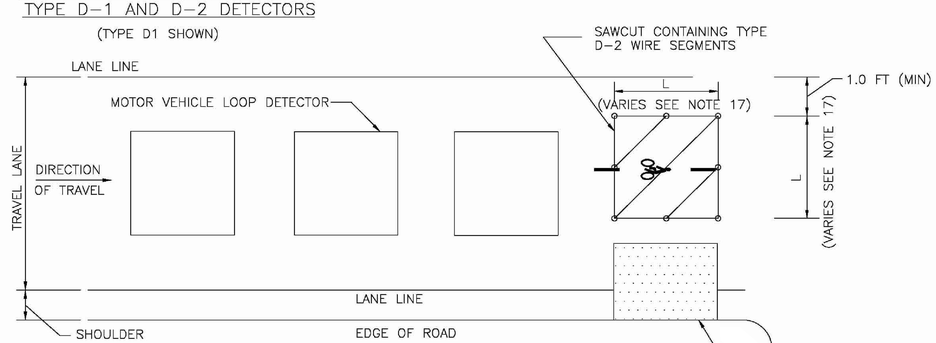
TYPE D–Q DETECTOR–DOUBLE QUADRUPOLE



SECTION THRU LOOP DETECTOR



RIGHT JUSTIFIED (SEE NOTE 12)
TYPE D–1 AND D–2 DETECTORS
(TYPE D1 SHOWN)



LEFT JUSTIFIED (SEE NOTE 13)
TYPE D–1 AND D–2 DETECTORS
(TYPE D2 SHOWN)

PROPOSED AREA OF DETECTION
A LARGER AREA OF DETECTION MAY BE REQUIRED BASED ON FIELD CONDITIONS AND SHALL BE DETERMINED BY THE DESIGNER.

SAWCUT SLOT DEPTH GUIDE		
TURNS OF WIRE	SLOT SIZE	
	DEPTH (IN)	WIDTH (IN)
1	1.5	0.5
2	1.5	0.5
3	1.5	0.5
4	2.0	0.5
5	2.0	0.5
6	2.0	0.5
7	2.0	0.5
8	2.0	0.5

NOTES:

1. REFER TO VEHICLE LOOP DETECTOR DETAIL SHEET FOR ADDITIONAL NOTES AND CONSTRUCTION DETAILS.
2. ALL DETAILS ARE GRAPHICAL WITH NO SCALE.
3. THE NUMBER, SIZE, LOCATION AND LENGTH OF DETECTION AREA VARIES AND SHALL BE DETERMINED BY THE DESIGNER REFER TO TRAFFIC SIGNAL PLAN.
4. BICYCLE LOOPS SHALL BE CONNECTED TO SEPARATE LOOP DETECTOR AMPLIFIERS CAPABLE OF HIGHER LEVELS OF SENSITIVITY.
5. BICYCLE LOOPS SHALL BE INSTALLED IN THE BASE COURSE OF EXISTING PAVEMENT. THE EXISTING PAVEMENT SHALL BE COLD PLANED TO THE BASE COURSE AND SAWCUT FOR LOOP INSTALLATION.
6. SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED FOR ALL BICYCLE DETECTORS TO INFORM CYCLISTS OF THE DETECTION AREA.
7. * OFFSETS FROM LANE LINE EQUAL UNLESS OTHERWISE NOTED. SEE PLANS.
8. TYPE Q DETECTORS SHALL BE WIRED IN A FIGURE EIGHT PATTERN WITH A DOUBLE LAYER DESIGN ("2–4–2") WITH 2 TURNS IN THE PERIMETER SLOTS AND 4 TURNS IN THE CENTER SLOT AS SHOWN IN THE WINDING DETAIL.
9. BICYCLES WILL BE DETECTED WITHIN 4 IN. OF THE INTERIOR LONGITUDINAL LOOP WIRES FOR TYPE Q AND D–Q DETECTORS.
10. PROVIDE 3 TURNS FOR TYPE D–1 DETECTORS.
11. INSTALL 2 LAYERS OF WIRE WOUND IN THE SAME DIRECTION IN BOTH LAYERS FOR TYPE D–2 DETECTORS. THE RESULT IS 4 TURNS IN EACH DIAGONAL.
12. RIGHT JUSTIFIED LOOP DETECTORS SHALL BE CONSIDERED FOR THE FOLLOWING CONDITIONS:
    a) BICYCLE STOPPING ON THE RIGHT SIDE OF A THRU TRAVEL LANE.
    b) BICYCLE STOPPING ON THE RIGHT SIDE OF AN EXCLUSIVE LEFT TURN LANE.
13. LEFT JUSTIFIED LOOP DETECTORS SHALL BE CONSIDERED FOR THE FOLLOWING CONDITIONS:
    a) BICYCLE STOPPING ON THE LEFT SIDE OF A SHARED LEFT/THRU LANE.
    b) BICYCLE STOPPING JUST TO THE RIGHT OF THE CENTERLINE WHEN TURNING LEFT ON A TWO–LANE ROADWAY.
14. RECTANGULAR LOOP DETECTORS SHALL BE CONSIDERED FOR BICYCLES STOPPING ON EITHER THE LEFT OR RIGHT SIDE OF A TWO–LANE ROADWAY. THE MINIMUM OFFSET FROM LANE LINE OR CURB LINE SHALL BE 1.0 FT.
15. PAVEMENT CORES OR TEST PITS MAY BE REQUIRED TO DETERMINE THE DEPTH OF EXISTING PAVEMENT AND CONFIRM THAT THE DETECTION OPTION CHOSEN AND CORRESPONDING WINDING PATTERN CAN BE ACCOMMODATED.
16. THESE DETAILS APPLY TO BICYCLE LOOPS INSTALLED IN ROADWAYS. PUSH BUTTON ACTUATION SHALL BE CONSIDERED FOR RECREATIONAL BIKE PATHS.
17. THE MINIMUM DIMENSION FOR L SHALL BE 6 FT MIN. FOR DETECTORS TYPE D–Q, D–1 & D–2. FINAL DIMENSIONS SHALL BE DETERMINED BY THE DESIGN ENGINEER.

NOTE: REVISED FEBRUARY 22, 2006

MASS HIGHWAY

MASSACHUSETTS HIGHWAY DEPARTMENT
TRAFFIC ENGINEERING
REVISED FEBRUARY 22, 2006

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TRAFFIC MANAGEMENT NOTES

GENERAL

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT - HIGHWAY DIVISION'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.

2. THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.

3. WITH THE EXCEPTION OF THE PERMANENT LANE CLOSURES REQUIRED FOR STAGED CONSTRUCTION, LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF MASSDOT AND THE ENGINEER, LANE RESTRICTIONS MAY REMAIN OVERNIGHT.

4. CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE RAMPS AND RAILINGS IN ACCORDANCE WITH ADA/AAB ACCESSIBILITY REQUIREMENTS FROM THE LATEST MASSDOT TTCP TEMPLATES. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.

5. PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

6. ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" MUST BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER OR FLAGGER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTH IS MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.

7. WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY (NORMALLY 9:00am TO 4:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE.

8. TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES: ENGLISH UNITS:
   L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
   L = WS² /60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
   WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.

9. ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1P PLATES SHALL BE USED WHERE APPROPRIATE.

10. FLASHING ARROW PANEL SHALL BE SET IN "ARROW MODE" WHEN USED FOR ACTUAL LANE CLOSURES ONLY. FOR SHOULDER CLOSURES, BULBS TO BE ILLUMINATED IN A NON-DIRECTIONAL CAUTION CONFIGURATION TO AVOID UNNECESSARY LANE SHIFTS.

11. DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.

12. THE FIRST TEN (10) REFLECTORIZED DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.

GRADE DIFFERENCES

13. WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND ADJACENT TRAVEL SURFACE (UNDER REPAIR OR RECONSTRUCTION), THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION. SEE DETAIL, THIS SHEET.

14. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.

15. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.

16. A MINIMUM SLOPE OF 4:1 MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELWAY (SEE DETAIL, THIS SHEET). A MAXIMUM SLOPE OF 8:1 MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A MAXIMUM SLOPE OF 12:1 MUST BE MAINTAINED ON ALL SIDEWALKS.

CONSTRUCTION SIGNING

17. ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.

18. CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL ONLY BE USED WHEN WORK IS BEING DONE WHICH RESTRICTS TRAFFIC.

19. STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON ALL ADVANCE WARNING SIGNS. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE. IF USED, THE COST FOR THE FLAGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGNS WITH NO ADDITIONAL PAYMENT.

20. EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.

21. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.

22. IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.

23. USE MA-W20-7b OR W20-7a SIGNS ONLY WHILE POLICE OR FLAGGERS ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

24. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD NCHRP 350 OR MASH CRASH TESTED SUPPORT. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

PAVEMENT MARKINGS

25. PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.

26. ON PROJECTS WHERE PAVEMENT OVERLAY IS NOT DESIGNATED, EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT TAPE, AS DIRECTED BY THE ENGINEER, FOR THE FULL DURATION OF THE PHASE IN PROGRESS. TEMPORARY PAINTED OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.

CHANNNELIZATION

27. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT.

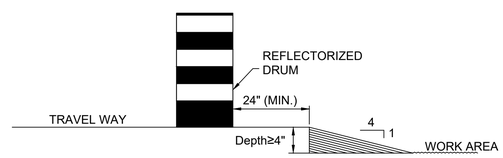
28. REFLECTORIZED CONES SHALL BE 36" HIGH.

29. PLASTIC DRUMS MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

30. TEMPORARY IMPACT ATTENUATORS MUST MEET THE PERFORMANCE STANDARDS OF MASH.

31. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

32. ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT MUST PASS THE CRITERIA SET FORTH IN MASH "MANUAL FOR ASSESSING SAFETY HARDWARE AND NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THESE CRITERIA THEY MUST BE REMOVED FROM THE PROJECT".



LATERAL DROP-OFF DETAIL

NOT TO SCALE

BUFFER SPACING	
SPEED* (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED , OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED.

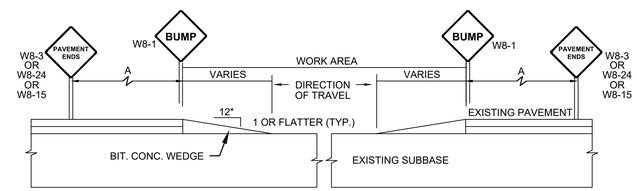
TRAFFIC MANAGEMENT LEGEND

- WORK AREA
- SIGN
- DIRECTION OF TRAVEL
- REFLECTORIZED DRUM OR CONE
- P — POLICE OFFICER
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
- TEMPORARY PRECAST CONCRETE BARRIER WITH TEMPORARY FENCE & WHITE REFLECTORS
- TEMPORARY IMPACT ATTENUATOR
- PAVEMENT MARKINGS TO COVER OR REMOVE (SEE PAVEMENT MARKINGS NOTES)
- PORTABLE CHANGEABLE MESSAGE SIGN
- MOVABLE IMPACT ATTENUATOR

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	84	185
PROJECT FILE NO.	606024		

TEMPORARY TRAFFIC CONTROL PLANS



TEMPORARY RAMP

NOT TO SCALE

SUGGESTED WORK ZONE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

Based on: Table 6C-1 MUTCD latest edition

*ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

**DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

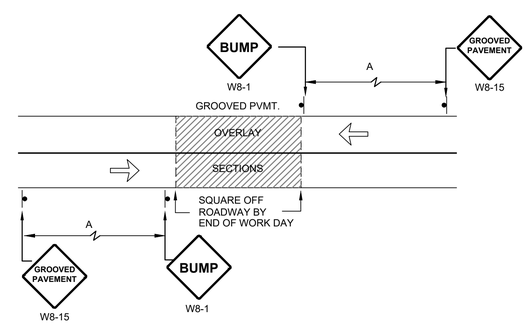
THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

SIGN SPACING MAY NEED TO BE INCREASED IF ADDITIONAL SIGNS ARE REQUIRED PER THE DETAIL/TYPICAL SETUP FIGURES.



AFTER WORK HOURS TREATMENT
FOR AREAS RECEIVING OVERLAY

NOT TO SCALE

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IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED	MASSDOT STANDARD		7	FLUORE-SCENT ORANGE /WHITE	BLACK	BLACK	12.00	84.00
MA-R2-10e	36"	48"	END ROAD WORK DOUBLE FINES END	MASSDOT STANDARD		8	FLUORE-SCENT ORANGE /WHITE	BLACK	BLACK	12.00	96.00
MA-W20-7b	36	36"	POLICE OFFICER AHEAD	MASSDOT STANDARD		4	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	36.00
M4-9bL	30"	24"	DETOUR ←	MUTCD STANDARD		6	WHITE	BLACK	BLACK	5.00	30.00
M4-9bR	30"	24"	DETOUR →			6	WHITE	BLACK	BLACK	5.00	30.00
R3-7L	30"	30"	LEFT LANE MUST TURN LEFT			2	WHITE	BLACK	BLACK	6.25	12.50
R4-7	24"	30"				8	WHITE	BLACK	BLACK	5.00	40.00
R9-9	30"	18"	SIDEWALK CLOSED			12	WHITE	BLACK	BLACK	3.75	45.00
R9-11aL	48"	24"	SIDEWALK CLOSED ← CROSS HERE			2	WHITE	BLACK	BLACK	8.00	16.00
R9-11aR	48"	24"	SIDEWALK CLOSED → CROSS HERE			2	WHITE	BLACK	BLACK	8.00	16.00
R11-2	48"	30"	ROAD CLOSED			2	FLUORE-SCENT ORANGE	BLACK	BLACK	10.00	20.00
W1-4L	36"	36"				4	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	36.00
W1-4R	36"	36"				4	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	36.00
W4-2L	36"	36"				1	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	9.00
W5-1	36"	36"	ROAD NARROWS			6	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	54.00
W8-1	36"	36"	BUMP			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-3	36"	36"	PAVEMENT ENDS			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-8	36"	36"	ROUGH ROAD			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-15	36"	36"	GROOVED PAVEMENT			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00
W8-24	36"	36"	STEEL PLATE ON PAVEMENT			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00
W11-2	30"	30"				6	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	6.25	37.50
W13-1p	24"	30"	XX M.P.H.			4	FLUORE-SCENT ORANGE	BLACK	BLACK	5.00	20.00

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER		
W16-7pL	24"	12"		MUTCD STANDARD		6	FLUORE-SCENT YELLOW GREEN	BLACK	BLACK	2.00	12.00
W16-9p	24"	12"	AHEAD			2	FLUORE-SCENT ORANGE	BLACK	BLACK	2.00	4.00
W20-1	36"	36"	ROAD WORK AHEAD			7	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	63.00
W20-4	36"	36"	ONE LANE ROAD XX FT			8	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	72.00
W20-7	36"	36"				4	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	36.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED			2	FLUORE-SCENT ORANGE	BLACK	BLACK	9.00	18.00

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	85	185
PROJECT FILE NO.	606024		

TEMPORARY TRAFFIC CONTROL PLANS

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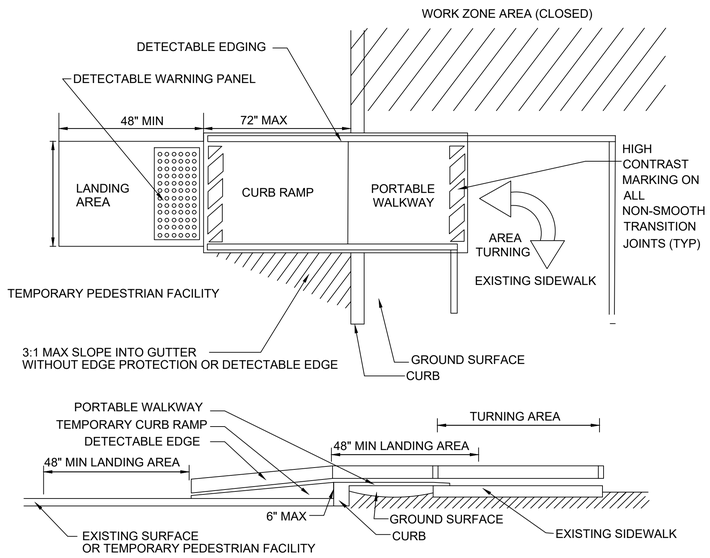
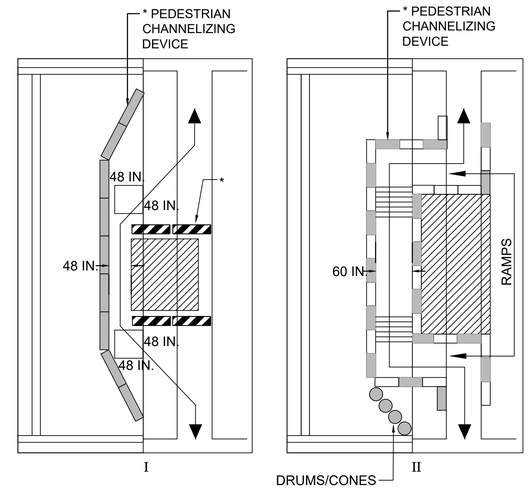
606024_HD_(TTCP).DWG Plotted on 26-Aug-2022 5:50 PM



TEMPORARY CURB RAMP-TYPE 2 (PED-2)

PEDESTRIAN DETAILS

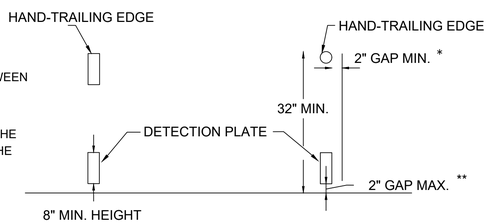
NOT TO SCALE



NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.

** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.



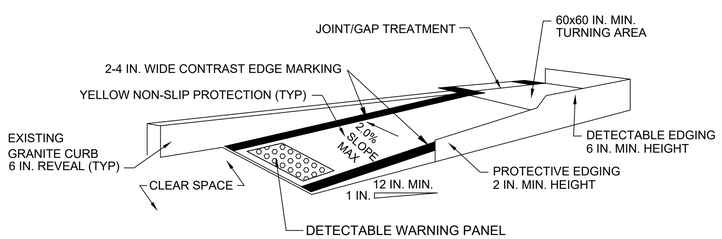
CROSS SECTION VIEW

TEMPORARY PEDESTRIAN CHANNELIZING DEVICE

- DETAIL I IS CONSIDERED AN EXAMPLE OF A SHORT TERM CLOSURE AND PEDESTRIAN ASSISTANCE (PERSONEL) TO NAVIGATE AROUND THE CLOSURE/WORK AREA COULD BE CONSIDERED AS AN OPTION IN PLACE OF PROVIDING ADA/AAB DEVICES. DETAIL II IS CONSIDERED AN EXAMPLE OF A LONG TERM CLOSURE THAT WOULD REQUIRE ADDITIONAL ADA/AAB COMPLIANT DEVICES. IF A SIDEWALK CLOSURE OR RESTRICTION LASTS FOR MORE THAN ONE (1) WORK SHIFT THEN ADA/AAB COMPLIANCE SHALL BE FOLLOWED.
- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
- A PEDESTRIAN CHANNELIZING DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ACROSS THE FULL WIDTH OF THE CLOSED SIDEWALK.
- WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (SEE FIGURES PED-1 & PED-2).
- THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
- THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THE SIDEWALK EXCEEDS 200 FEET THEN A 5 FOOT BE 5 FOOT PASSING ZONE SHALL BE PROVIDED.
- THE PROTECTIVE REQUIREMENTS OF A TTC WORK ZONE MAY HAVE AN IMPACT IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN PROVIDING PEDESTRIAN DELINEATION SHOULD BE BASED ON ENGINEERING JUDGMENT .
- CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN; VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE. THESE DETAILS ARE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DETERMINED BY THE ENGINEER.
- AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.
- EXISTING AUDIBLE DEVICES NO LONGER APPLICABLE DUE TO CONSTRUCTION SHALL BE DISABLED.

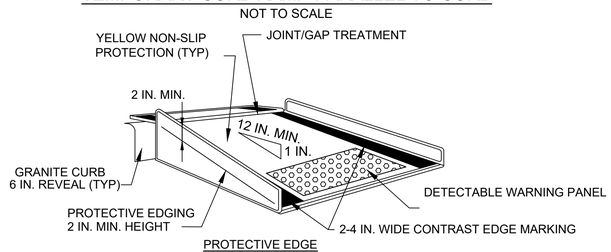
AUDIBLE DEVICES

FOR LONG TERM SIDEWALK CLOSURES (AT A MINIMUM OVERNIGHT) A FORM OF SPEECH MESSAGING FOR PEDESTRIANS WITH VISUAL DISABILITIES SHALL BE PROVIDED. AUDIBLE INFORMATION DEVICES SUCH AS DETECTABLE BARRIERS OR BARRICADES AND OTHER PASSIVE PEDESTRIAN ACTIVATION (MOTION ACTIVATED) DEVICES SHOULD BE CONSIDERED FOR THESE CASES. THESE AUDIBLE DEVICES CAN BE MOUNTABLE OR STAND ALONE.



TEMPORARY CURB RAMP-PARALLEL TO CURB

NOT TO SCALE

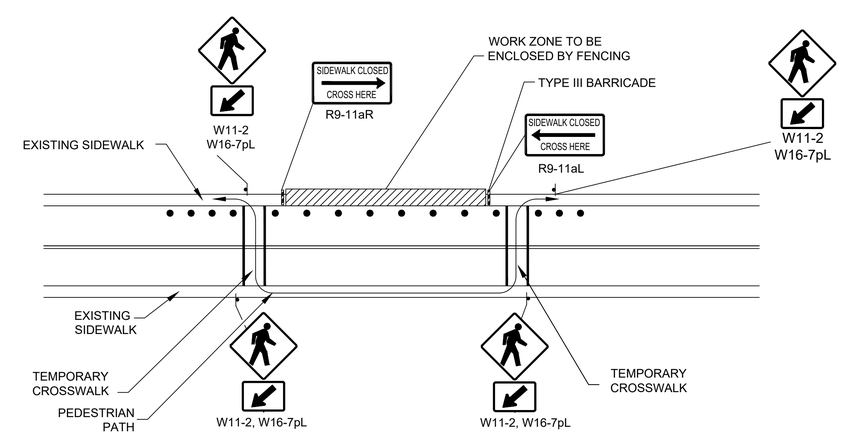


TEMPORARY CURB RAMP-PERPENDICULAR TO CURB (PED-1)

NOT TO SCALE

NOTES:

1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
6. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.



NOTES

1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. ST LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
5. THE SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE IS REQUIRED.

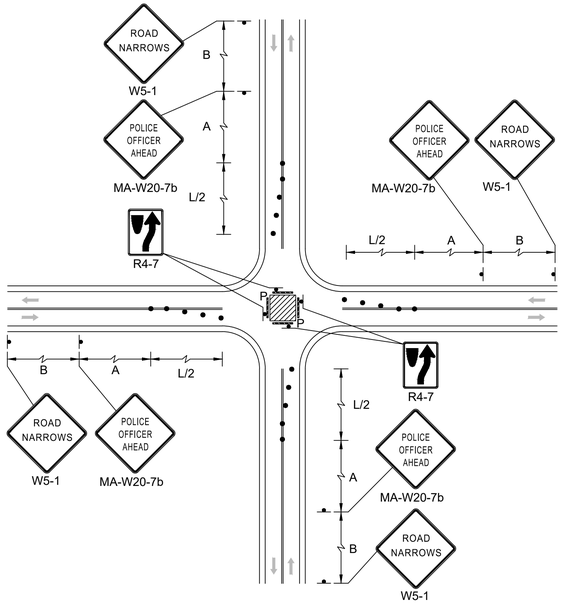
PEDESTRIAN BYPASS

NOT TO SCALE

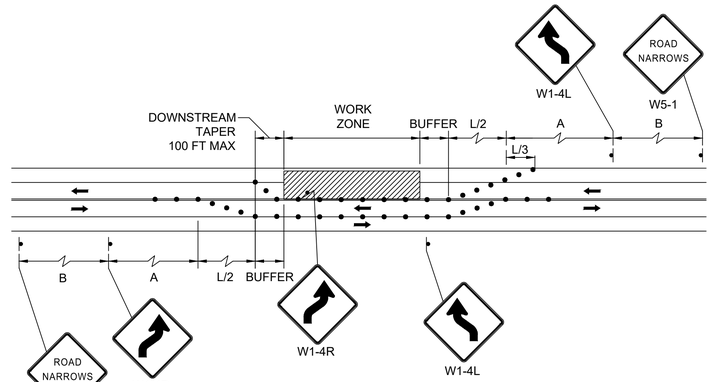
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	87	185
PROJECT FILE NO.	606024		

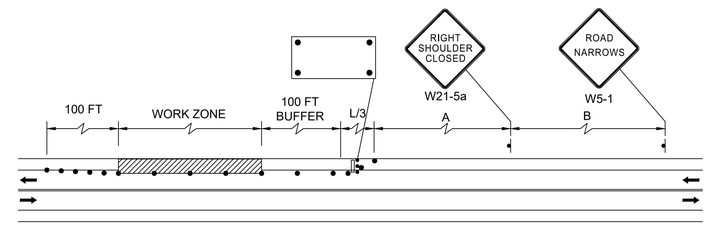
TEMPORARY TRAFFIC CONTROL PLANS



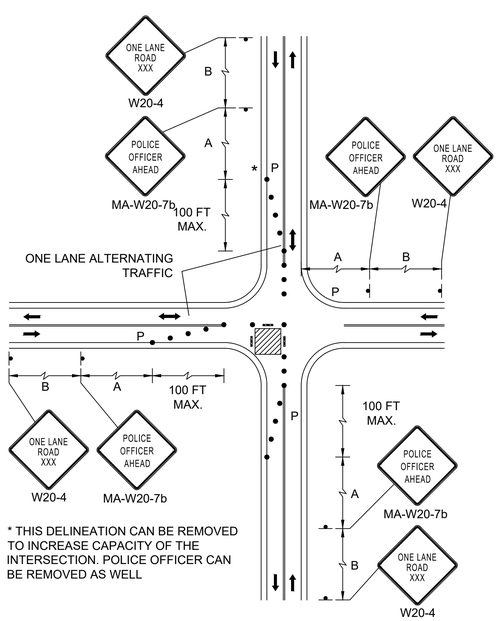
SINGLE LANE APPROACH
CENTER CLOSURE
NOT TO SCALE



TWO LANE ROAD SHOULDER
AND TRAVEL LANE CLOSED
NOT TO SCALE

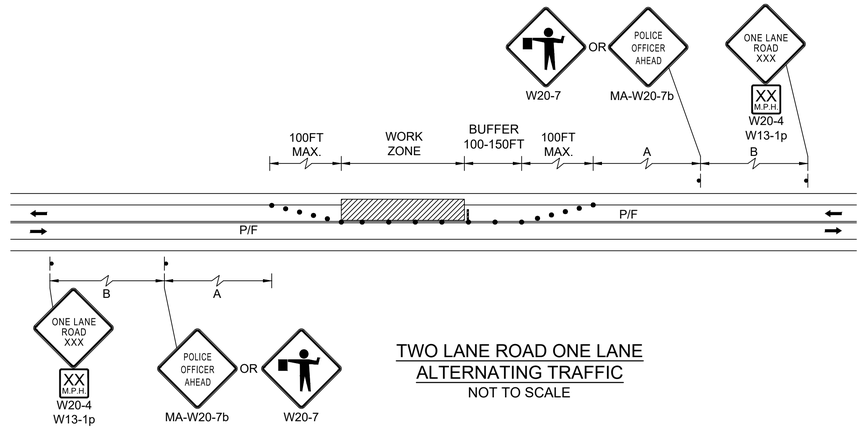


TWO LANE ROAD
SHOULDER CLOSED
NOT TO SCALE

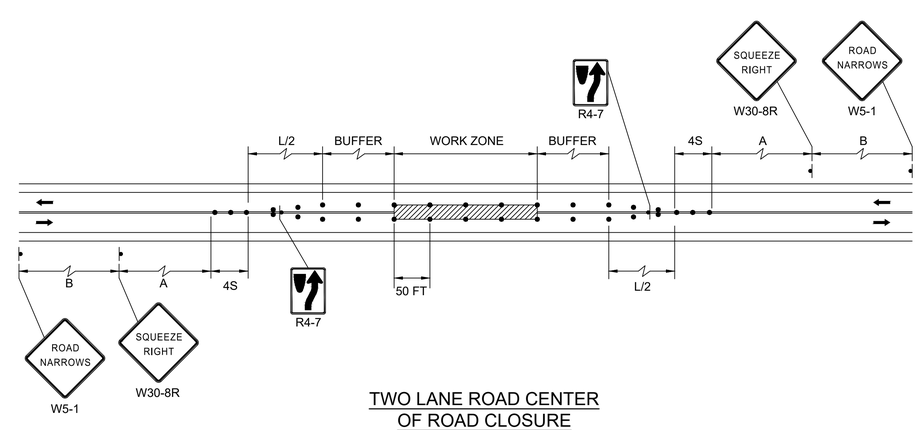


SINGLE LANE APPROACH ONE
QUADRANT CLOSURE
NOT TO SCALE

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



TWO LANE ROAD ONE LANE
ALTERNATING TRAFFIC
NOT TO SCALE



TWO LANE ROAD CENTER
OF ROAD CLOSURE
NOT TO SCALE

606024_HD_(TTCP).DWG Plotted on 26-Aug-2022 5:50 PM

PORTABLE CHANGEABLE MESSAGE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE 2009 MUTCD AS AMENDED AND SHOULD BE PLACED ON THE SHOULDER OF THE ROADWAY OR IF PRACTICAL SET WELL AWAY FROM THE TRAVEL LANE. MESSAGE SIGNS SHOULD BE PROTECTED WITH RETROREFLECTIVE TEMPORARY TRAFFIC CONTROL DEVICES WHEN PLACED WITHIN THE AVAILABLE CLEAR ZONE OR ELSE SHIELDED WITH A BARRIER OR CRASH CUSHION. THE LOCATION AND USE OF THE PCMS SHALL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. ALTERNATIVE MESSAGES MAY BE DETERMINED BY THE ENGINEER IN THE FIELD

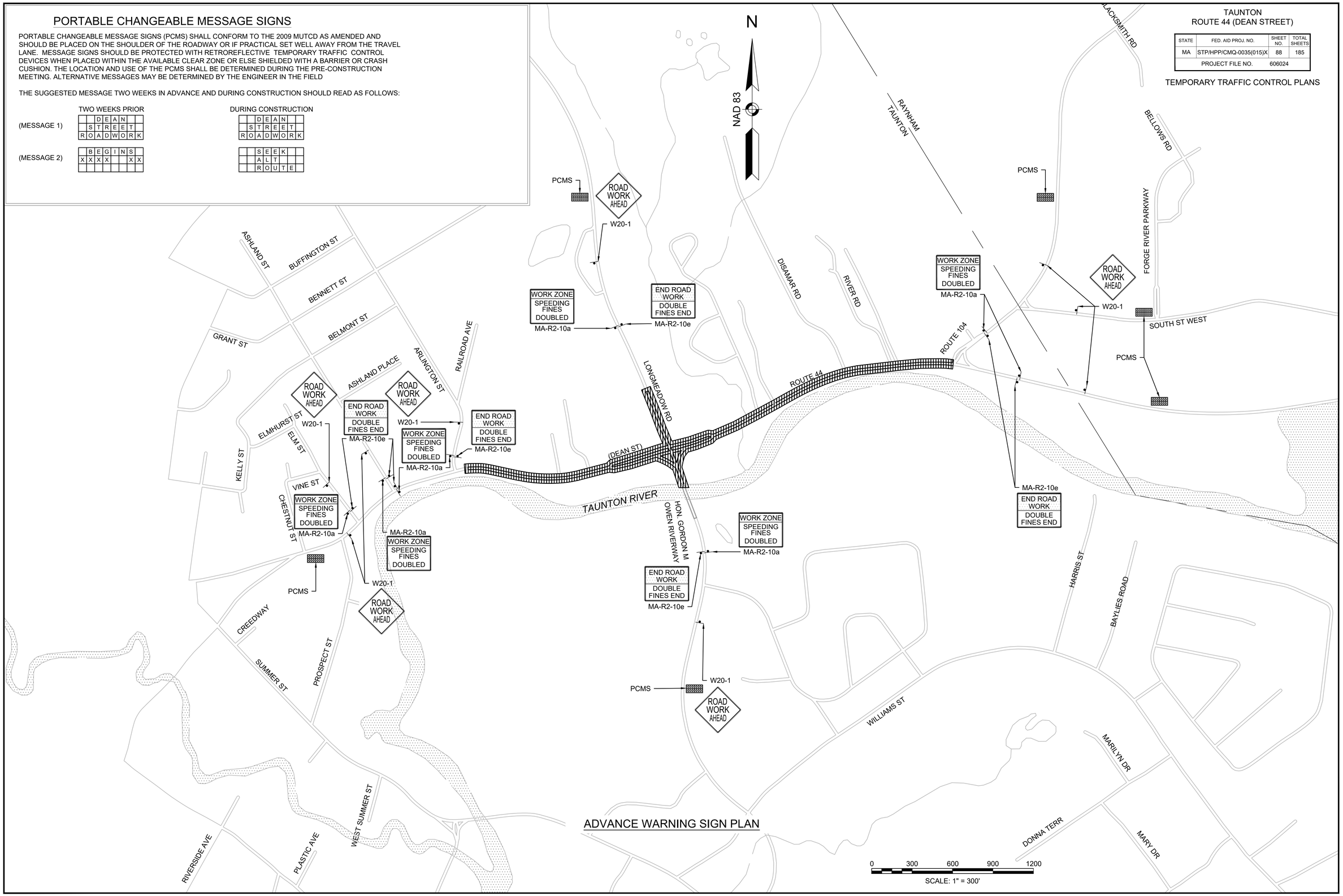
THE SUGGESTED MESSAGE TWO WEEKS IN ADVANCE AND DURING CONSTRUCTION SHOULD READ AS FOLLOWS:

	TWO WEEKS PRIOR	DURING CONSTRUCTION
(MESSAGE 1)	DEAN STREET ROADWORK	DEAN STREET ROADWORK
(MESSAGE 2)	BEGINS XXXX XX	SEEK ALT ROUTE

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	88	185
PROJECT FILE NO.	606024		

TEMPORARY TRAFFIC CONTROL PLANS



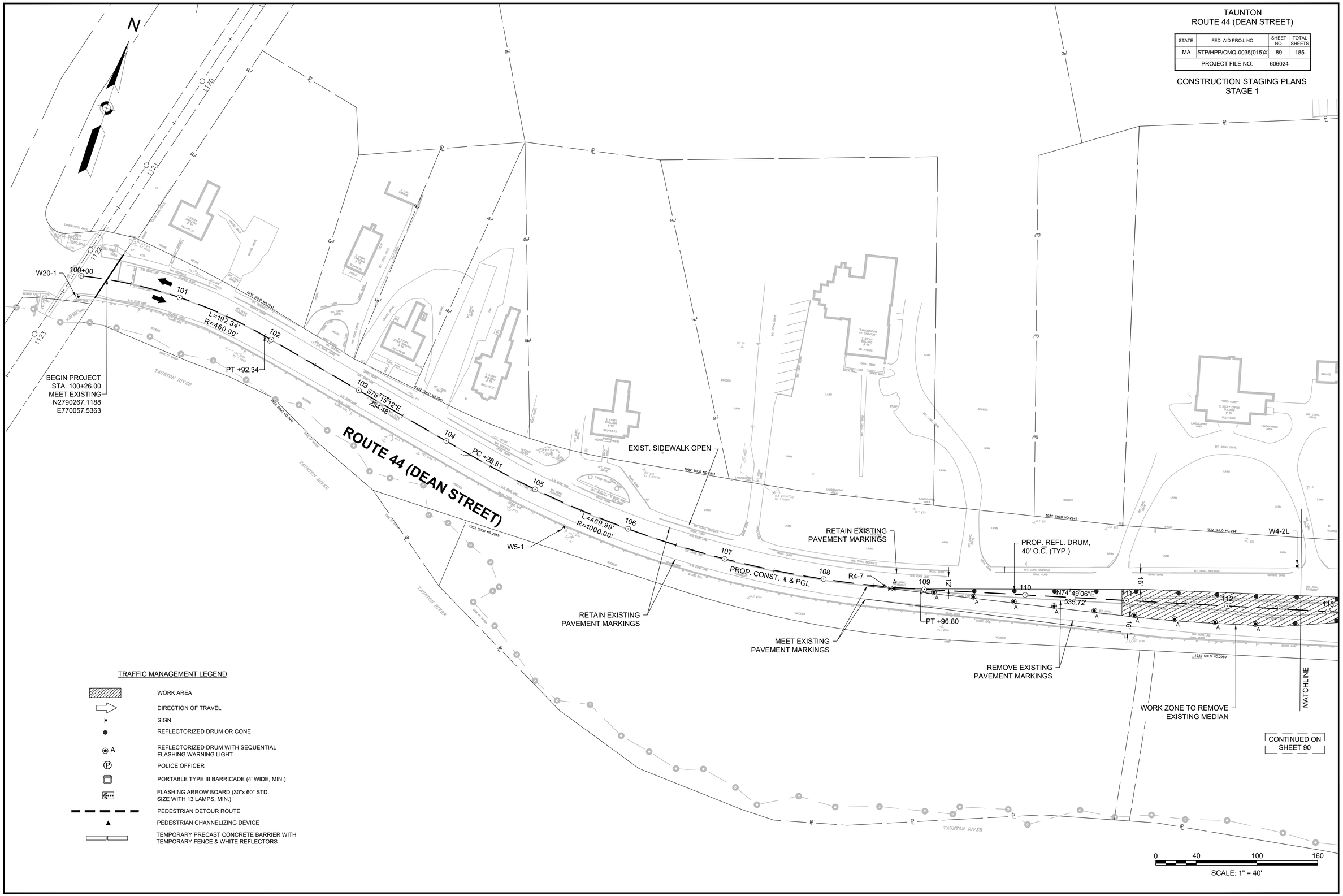
ADVANCE WARNING SIGN PLAN

606024_HD_(TTCP).DWG Plotted on 26-Aug-2022 5:50 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	89	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 1



TRAFFIC MANAGEMENT LEGEND

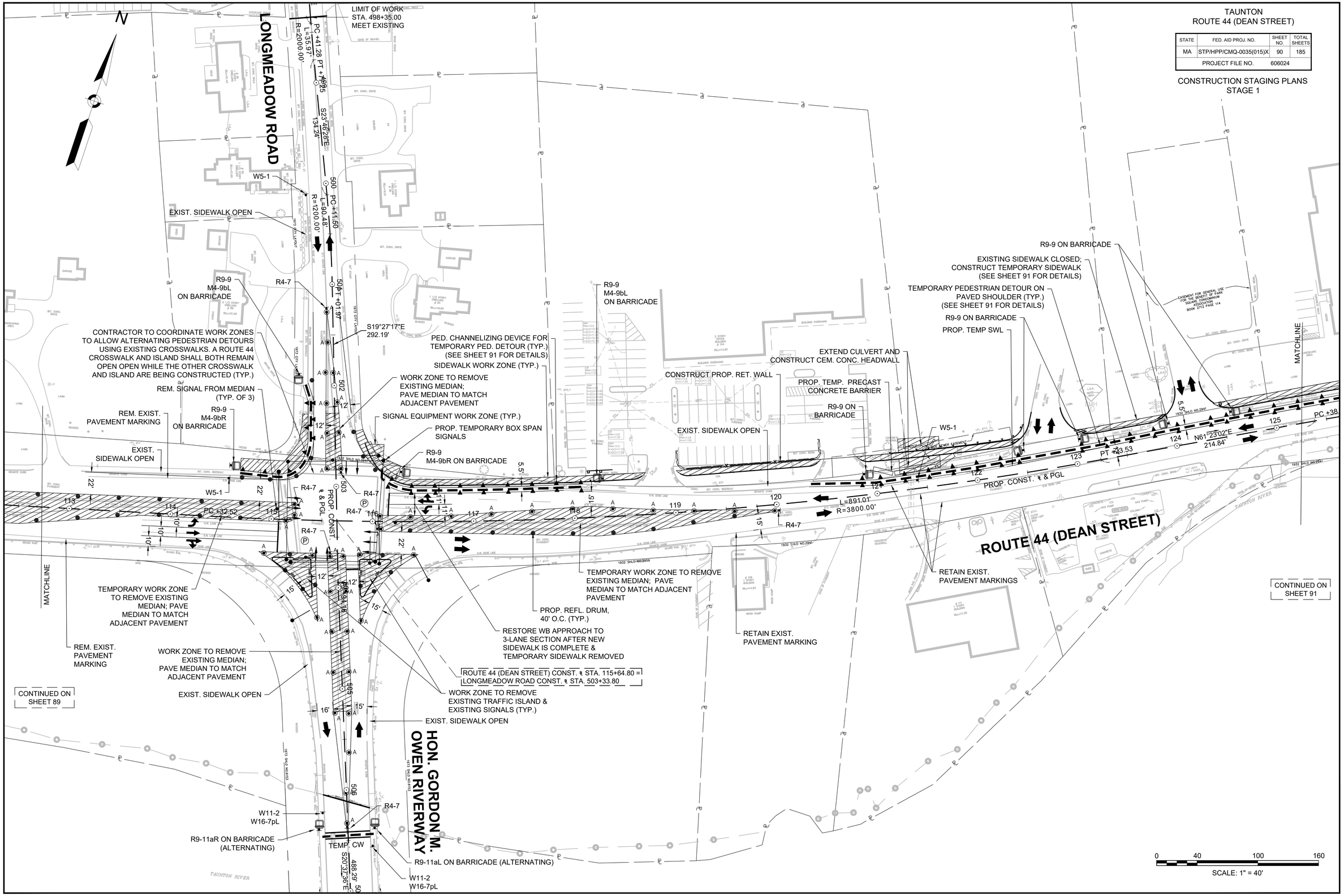
- WORK AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED DRUM OR CONE
- A — REFLECTORIZED DRUM WITH SEQUENTIAL FLASHING WARNING LIGHT
- POLICE OFFICER
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
- PEDESTRIAN DETOUR ROUTE
- PEDESTRIAN CHANNELIZING DEVICE
- TEMPORARY PRECAST CONCRETE BARRIER WITH TEMPORARY FENCE & WHITE REFLECTORS

606024_HD_(TTCP_STAGE 1).DWG Plotted on 26-Aug-2022 5:50 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	90	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 1



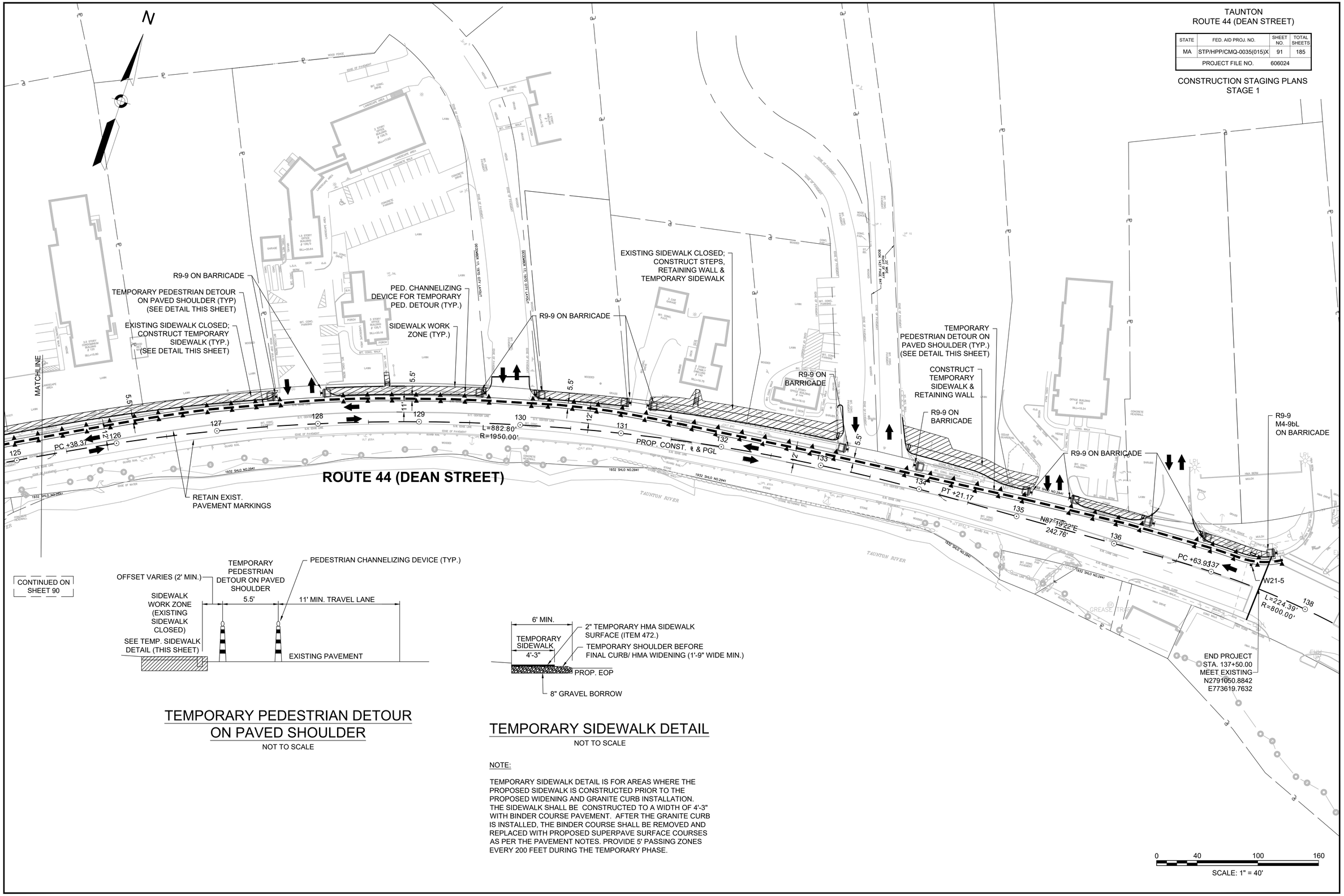
606024_HD_(TTCP_STAGE 1).DWG Plotted on 26-Aug-2022 5:51 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	91	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 1

606024_HD_(TTCP_STAGE 1).DWG Plotted on 26-Aug-2022 5:51 PM



TEMPORARY PEDESTRIAN DETOUR ON PAVED SHOULDER

NOT TO SCALE

TEMPORARY SIDEWALK DETAIL

NOT TO SCALE

NOTE:

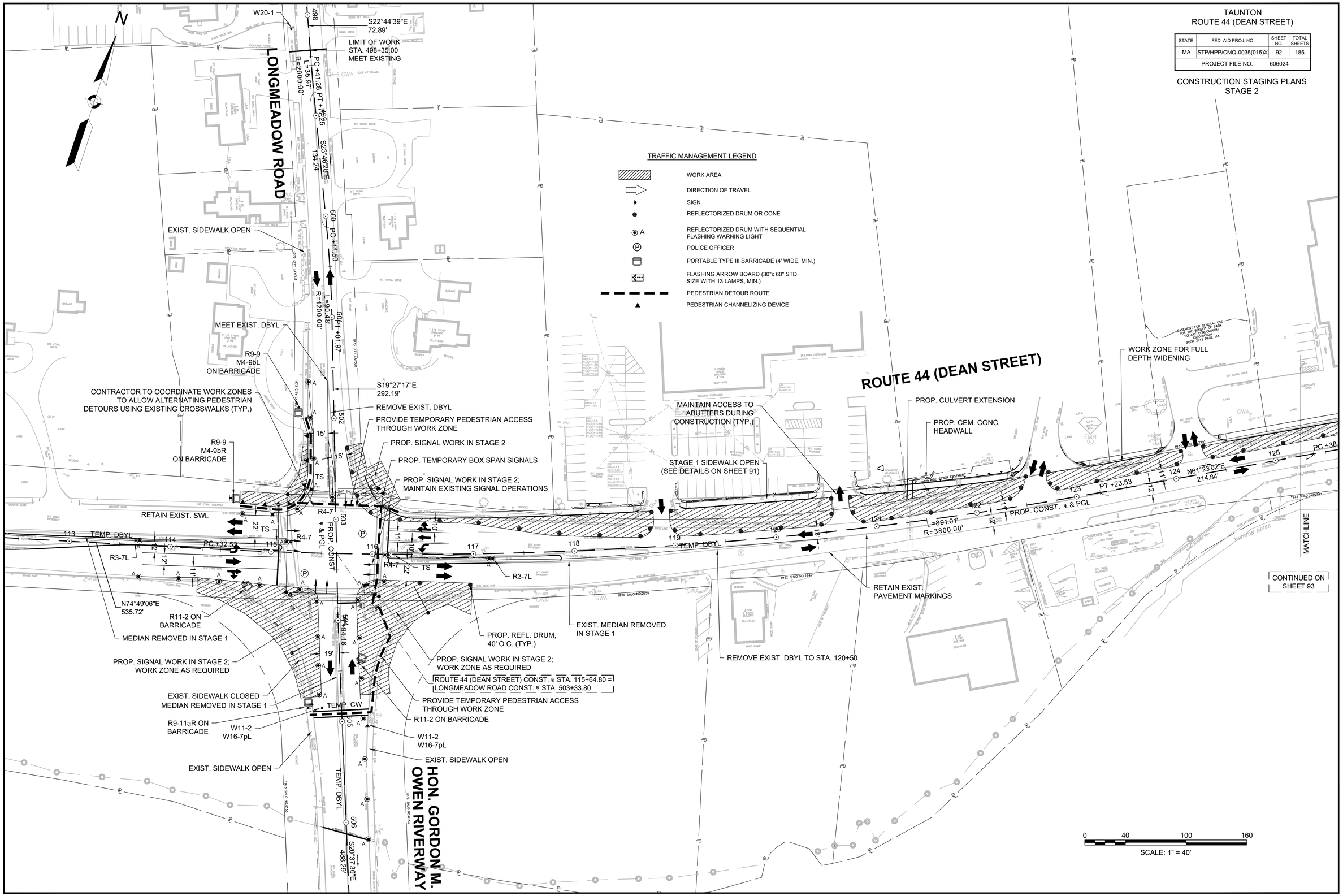
TEMPORARY SIDEWALK DETAIL IS FOR AREAS WHERE THE PROPOSED SIDEWALK IS CONSTRUCTED PRIOR TO THE PROPOSED WIDENING AND GRANITE CURB INSTALLATION. THE SIDEWALK SHALL BE CONSTRUCTED TO A WIDTH OF 4'-3" WITH BINDER COURSE PAVEMENT. AFTER THE GRANITE CURB IS INSTALLED, THE BINDER COURSE SHALL BE REMOVED AND REPLACED WITH PROPOSED SUPERPAVE SURFACE COURSES AS PER THE PAVEMENT NOTES. PROVIDE 5' PASSING ZONES EVERY 200 FEET DURING THE TEMPORARY PHASE.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	92	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 2

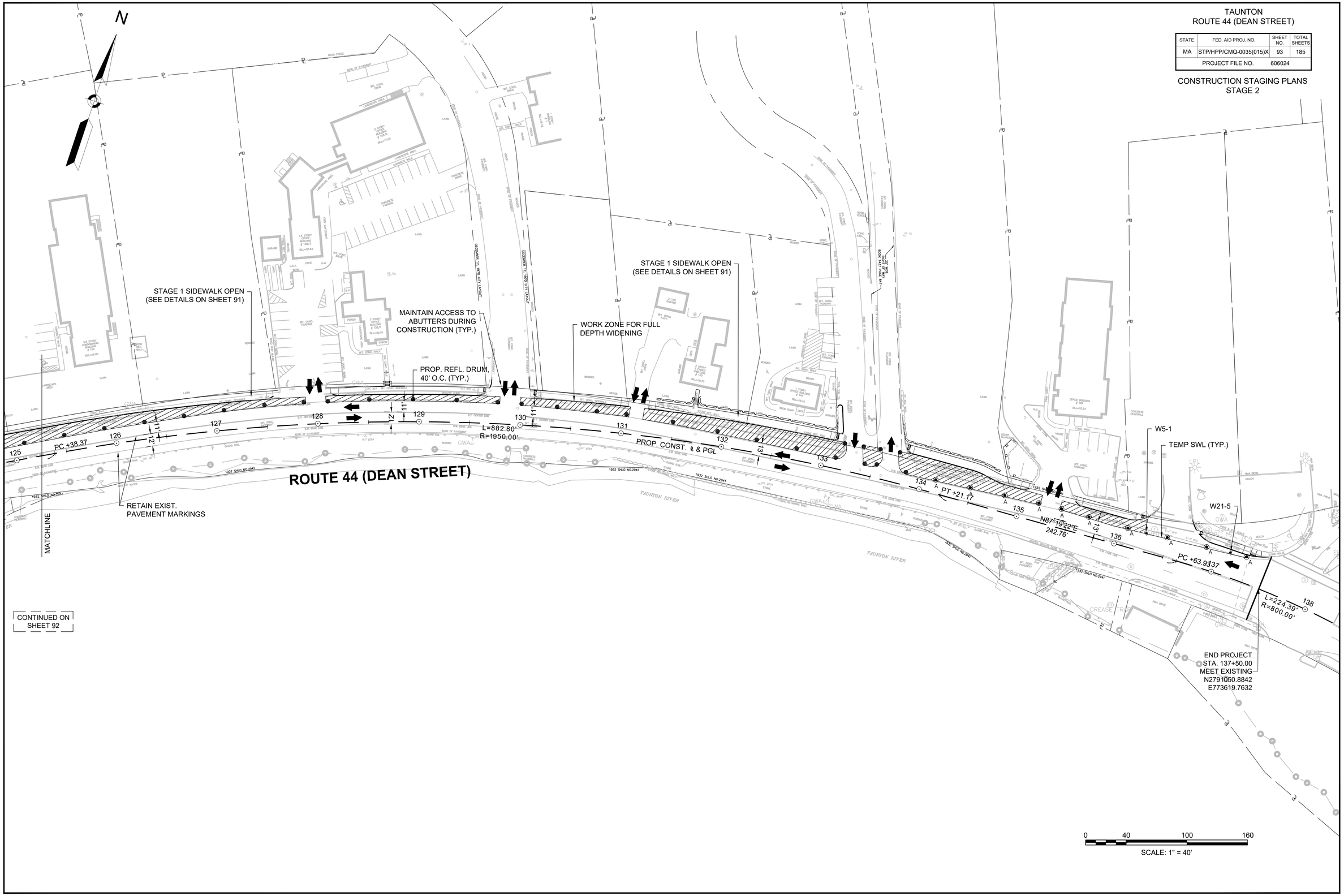
606024_HD_(TTCP_STAGE 2).DWG Plotted on 26-Aug-2022 5:51 PM



TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	93	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 2



CONTINUED ON
SHEET 92

606024_HD_(TTCP_STAGE 2).DWG Plotted on 26-Aug-2022 5:51 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	94	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 3

606024_HD_(TTCP_STAGE 3).DWG Plotted on 26-Aug-2022 5:51 PM

N

EXISTING SIDEWALK CLOSED; CONSTRUCT TEMPORARY SIDEWALK (SEE DETAILS THIS SHEET); CONSTRUCT PROP. SIDEWALK TO STA. 106+00±

R9-9
M4-9bR ON BARRICADE

BEGIN PROJECT
STA. 100+26.00
MEET EXISTING
N2790267.1188
E770057.5363

L=192.34'
R=460.00'

TEMP. DBYL

REMOVE EXIST. PAVEMENT MARKINGS

S78°15'12"E
234.48'

ROUTE 44 (DEAN ST.)

PROP. CONST. ℄ & PGL

L=469.99'
R=1000.00'

TEMP. SWL

TEMP. DBYL

PT +96.80

N74°49'06"E
535.72'

PED. CHANNELIZING DEVICE FOR TEMP. PED. DETOUR (TYP.)

WORK ZONE FOR SIDEWALK AND WIDENING

EXISTING SIDEWALK CLOSED; CONSTRUCT TEMPORARY SIDEWALK (SEE DETAILS THIS SHEET)

EXIST. SIDEWALK CLOSED

W5-1

W5-1

EXIST. SIDEWALK CLOSED

REMOVE EXIST. PAVEMENT MARKING

MAINTAIN ACCESS TO ABUTTERS DURING CONSTRUCTION OF TEMPORARY SIDEWALK (TYP.)

TEMP. PEDESTRIAN DETOUR ON PAVED SHOULDER (SEE DETAILS THIS SHEET)

EXISTING SIDEWALK CLOSED; CONSTRUCT TEMPORARY SIDEWALK

EXIST. MEDIAN REMOVED IN STAGE 1

REMOVE EXIST. PAVEMENT MARKINGS

W4-2L

WORK ZONE FOR FULL DEPTH WIDENING

BEGIN PROPOSED WIDENING EB SIDE

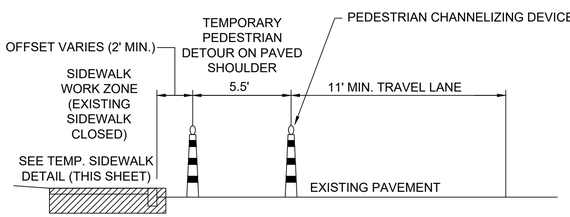
PROP. REFL. DRUM, 40' O.C. (TYP.)

R3-7L

MATCHLINE

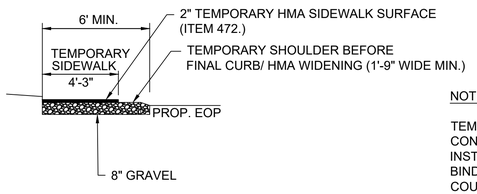
CONTINUED ON SHEET 95

TAUNTON RIVER



TEMPORARY PEDESTRIAN DETOUR ON PAVED SHOULDER

NOT TO SCALE



TEMPORARY SIDEWALK DETAIL

NOT TO SCALE

NOTE:

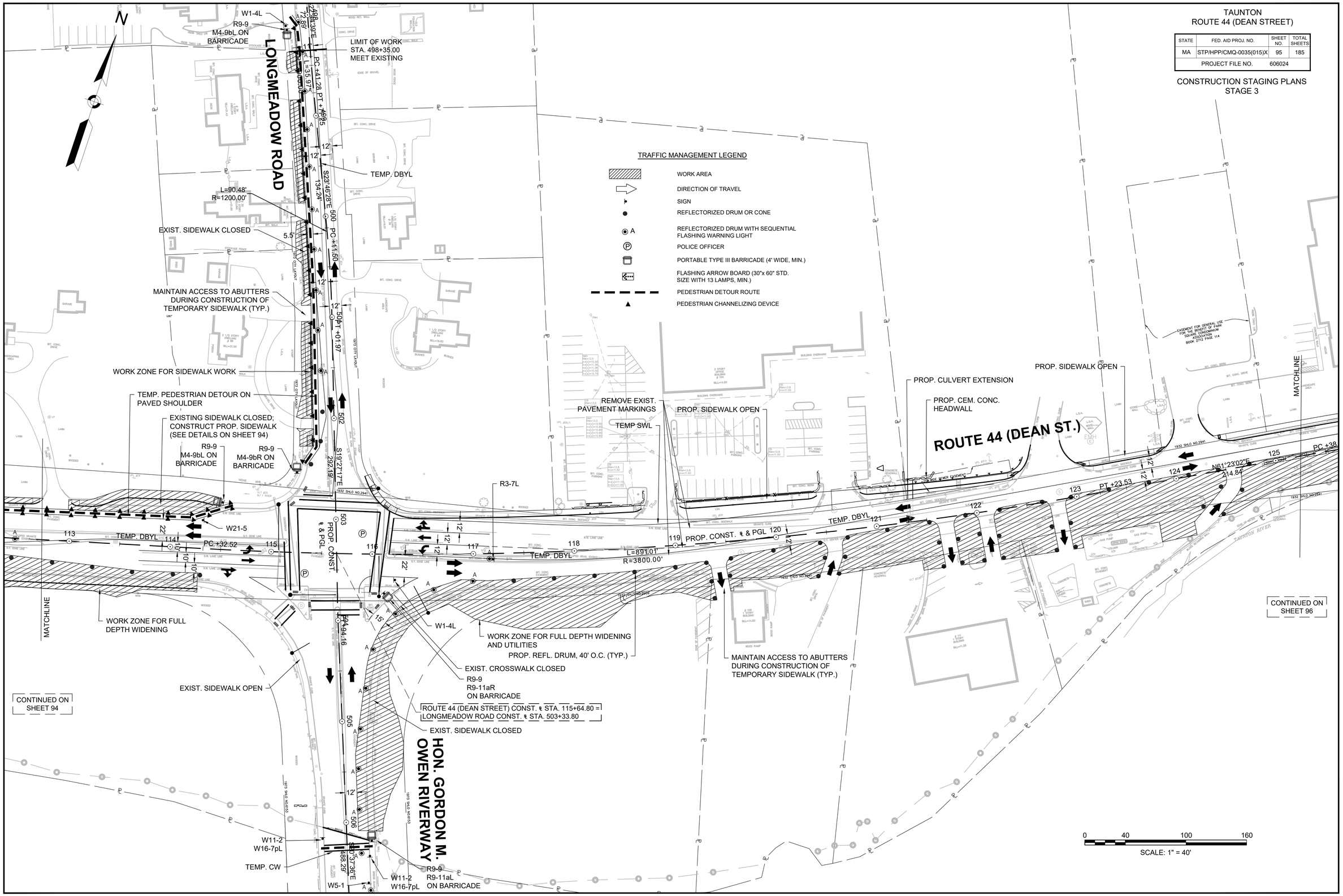
TEMPORARY SIDEWALK DETAIL IS FOR AREAS WHERE THE PROPOSED SIDEWALK IS CONSTRUCTED PRIOR TO THE PROPOSED WIDENING AND GRANITE CURB INSTALLATION. THE SIDEWALK SHALL BE CONSTRUCTED TO A WIDTH OF 4'-3" WITH BINDER COURSE PAVEMENT. AFTER THE GRANITE CURB IS INSTALLED, THE BINDER COURSE SHALL BE REMOVED AND REPLACED WITH PROPOSED SUPERPAVE SURFACE COURSES AS PER THE PAVEMENT NOTES. PROVIDE 5' PASSING ZONES EVERY 200 FEET DURING THE TEMPORARY PHASE.

0 40 100 160
SCALE: 1" = 40'

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	95	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 3

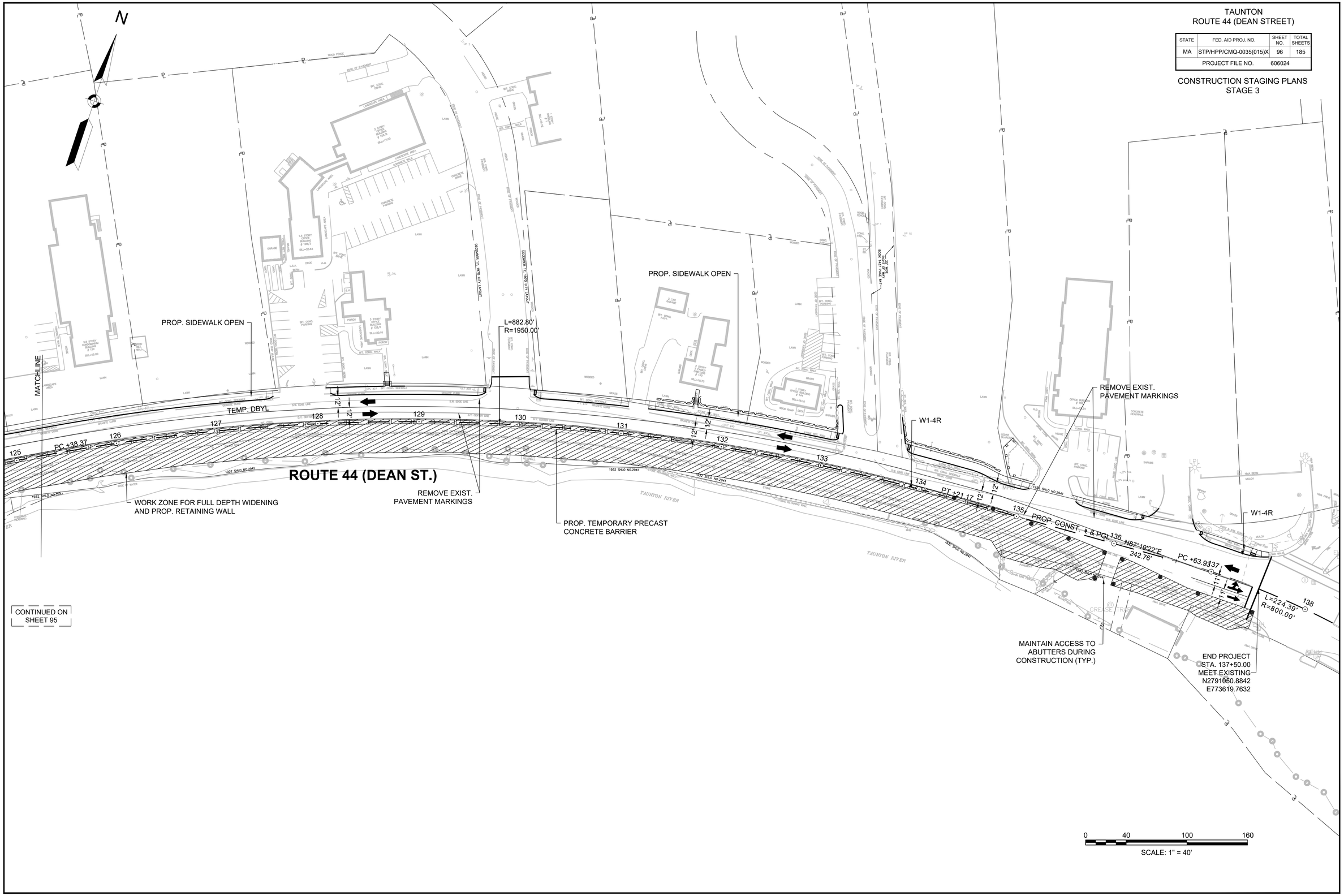


606024_HD_(TTCP_STAGE 3).DWG Plotted on 26-Aug-2022 5:52 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	96	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 3

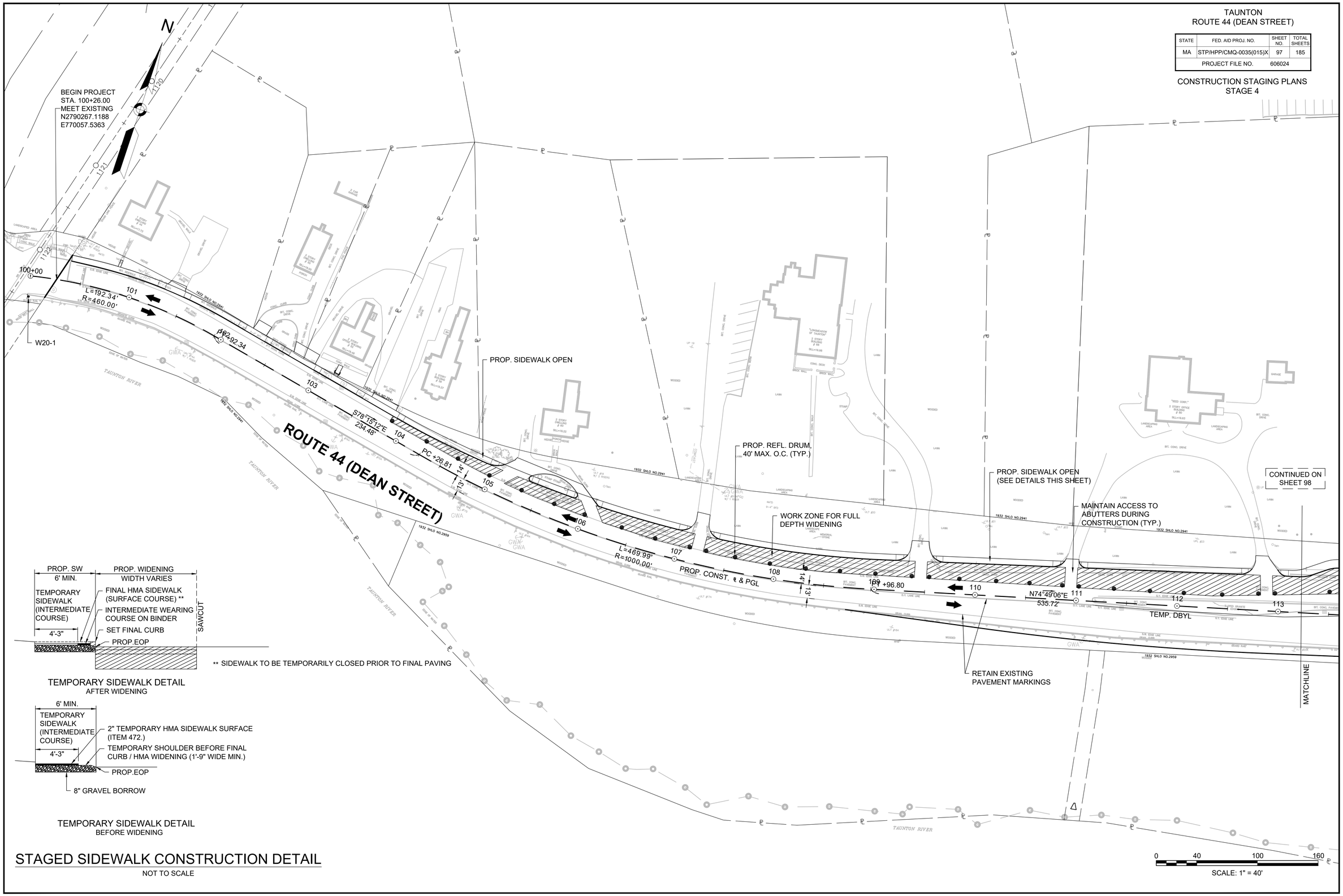


606024_HD_(TTCP_STAGE 3).DWG Plotted on 26-Aug-2022 5:52 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	97	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 4



** SIDEWALK TO BE TEMPORARILY CLOSED PRIOR TO FINAL PAVING

TEMPORARY SIDEWALK DETAIL
AFTER WIDENING

TEMPORARY SIDEWALK DETAIL
BEFORE WIDENING

STAGED SIDEWALK CONSTRUCTION DETAIL

NOT TO SCALE

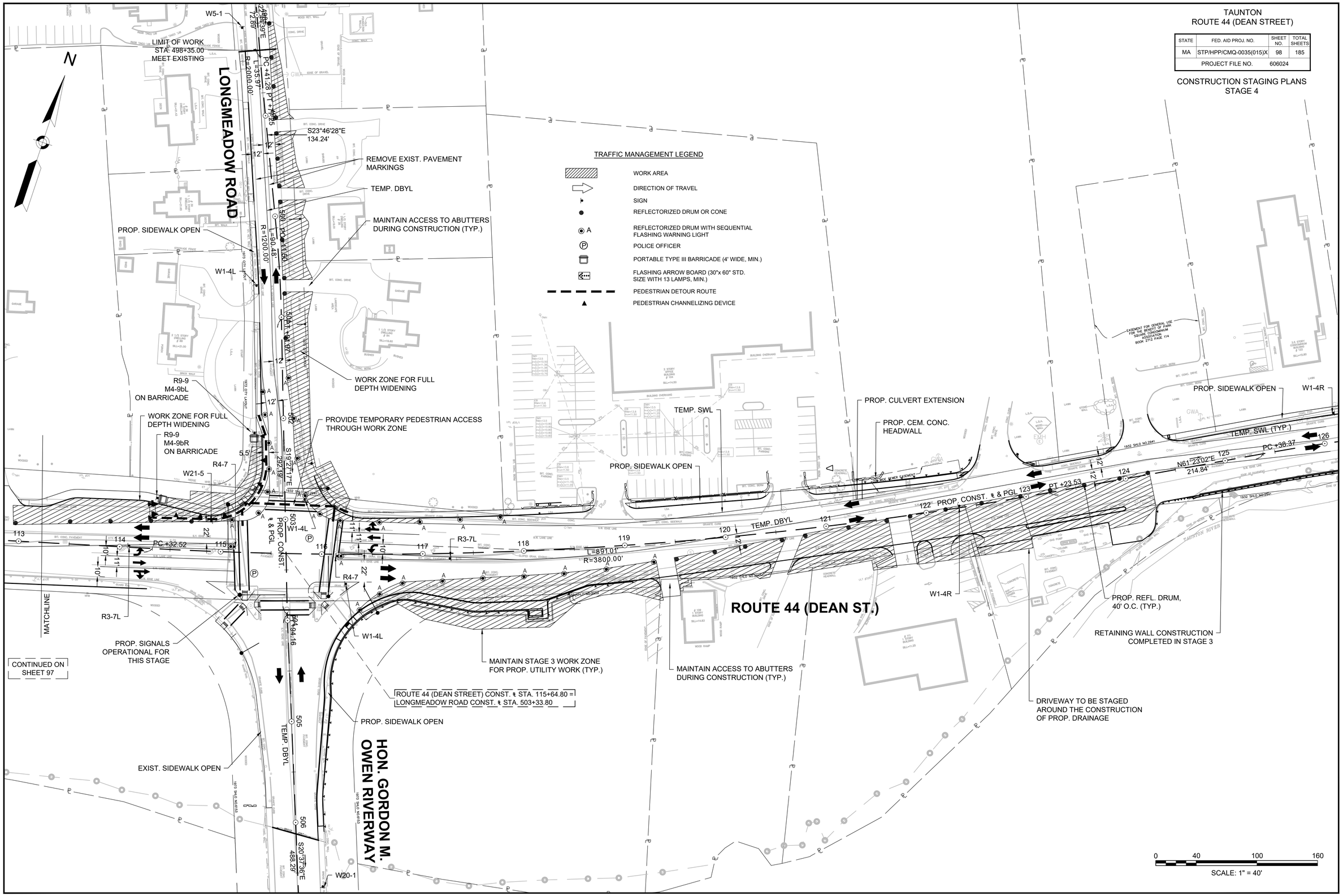
606024_HD_(TTCP_STAGE 4).DWG Plotted on 26-Aug-2022 5:52 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	98	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 4

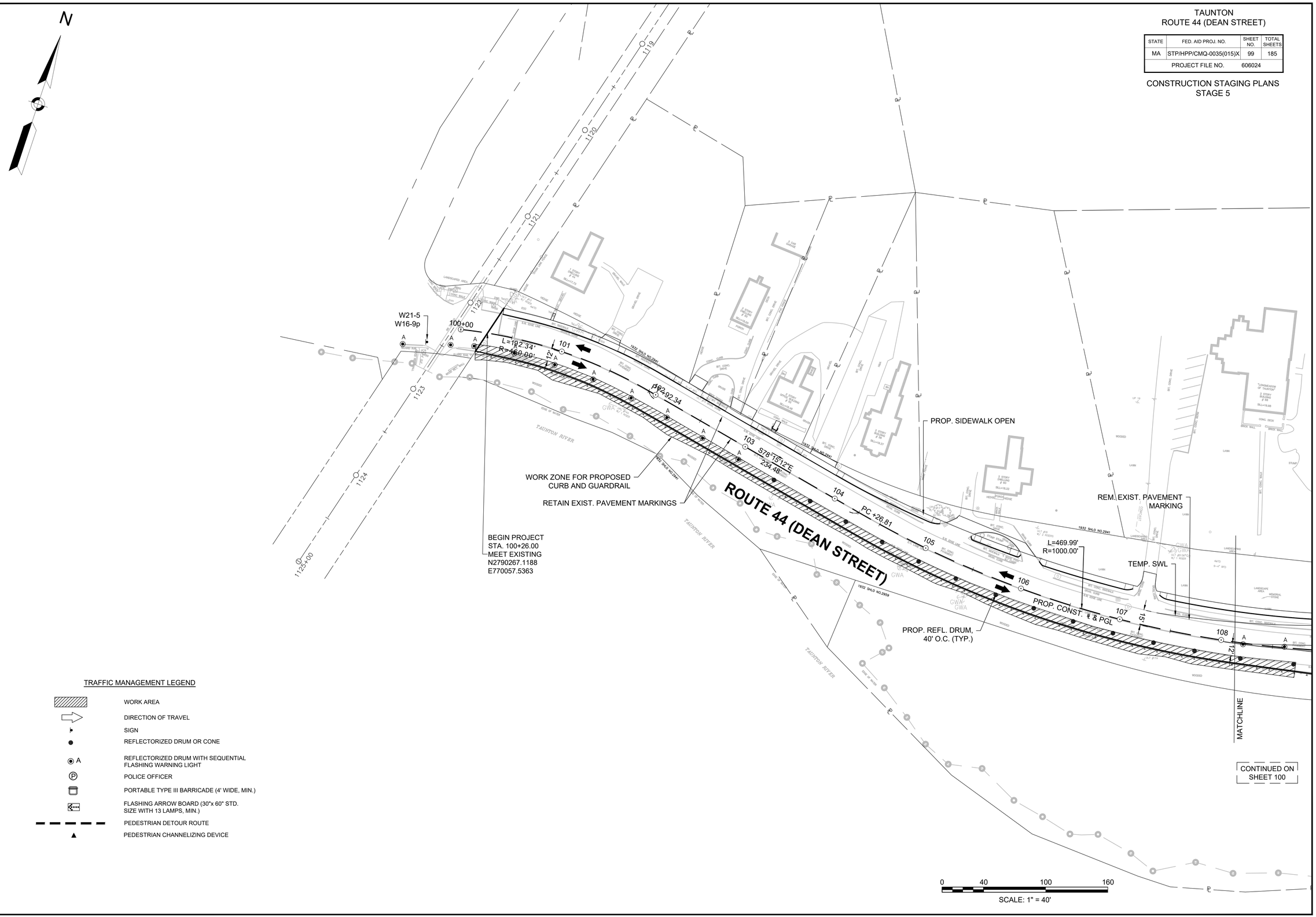
606024_HD_(TTCP_STAGE 4).DWG Plotted on 26-Aug-2022 5:52 PM



TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	99	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 5



TRAFFIC MANAGEMENT LEGEND

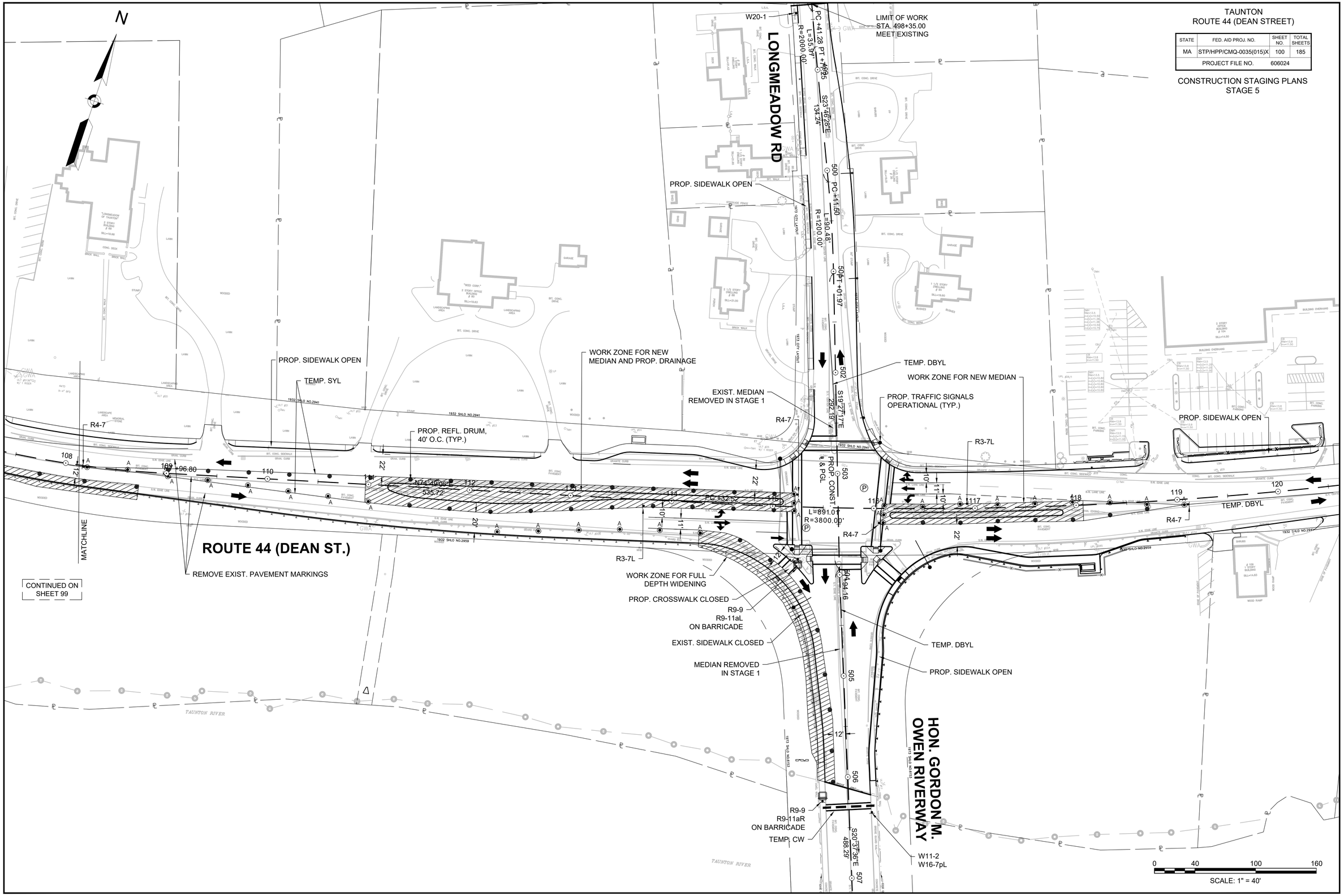
- WORK AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED DRUM OR CONE
- A — REFLECTORIZED DRUM WITH SEQUENTIAL FLASHING WARNING LIGHT
- P — POLICE OFFICER
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
- PEDESTRIAN DETOUR ROUTE
- PEDESTRIAN CHANNELIZING DEVICE

606024_HD_(TTCP_STAGE 5).DWG Plotted on 26-Aug-2022 5:52 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	100	185
PROJECT FILE NO.	606024		

CONSTRUCTION STAGING PLANS
STAGE 5



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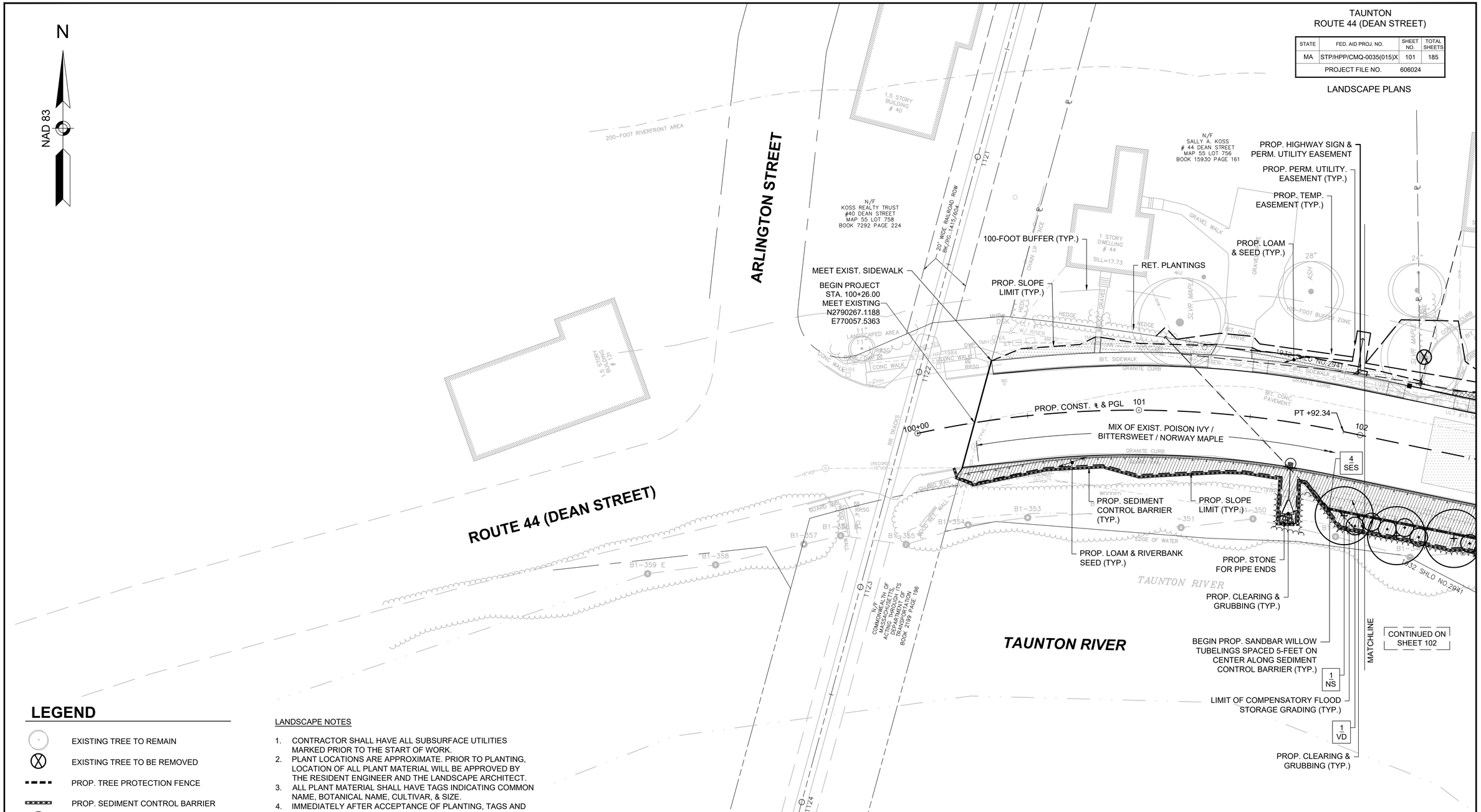
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	101	185
PROJECT FILE NO.	606024		

LANDSCAPE PLANS



LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- PROP. TREE PROTECTION FENCE
- PROP. SEDIMENT CONTROL BARRIER
- PROP. DECIDUOUS TREE
- PROP. LIMIT OF CLEARING
- PROP. LAWN SEED MIX OVER 4" LOAM FOR LAWNS
- PROP. RIVERBANK SEED MIX AND COVER CROP OVER 4" LOAM FOR ROADSIDES
- PROP. 3" AGED PINE BARK MULCH
- PROP. WETLAND RESTORATION / REPLICATION AREA

LANDSCAPE NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANT LOCATIONS ARE APPROXIMATE. PRIOR TO PLANTING, LOCATION OF ALL PLANT MATERIAL WILL BE APPROVED BY THE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT.
3. ALL PLANT MATERIAL SHALL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME, CULTIVAR, & SIZE.
4. IMMEDIATELY AFTER ACCEPTANCE OF PLANTING, TAGS AND RIBBONS SHALL BE REMOVED.
5. ALL PLANTS WILL BE MULCHED PER PLANS AND SPECIFICATIONS.
6. ALL SHRUB AND PERENNIAL BEDS WILL BE WEEDED AND OTHERWISE NEATLY MAINTAINED FOR THE DURATION OF THE CONTRACT.
7. PLANTS AND PLANTING BEDS SHALL BE THOROUGHLY WATERED AS NECESSARY AND PER THE SPECIFICATIONS.
8. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED UNLESS NOTED OTHERWISE.
9. ESTIMATED AREAS OF INVASIVE PLANTS ARE CALLED OUT ON THE LANDSCAPE SHEETS FOR REFERENCE. ACTUAL AREAS SHALL BE INVENTORIED ON SITE AT TIME OF CONSTRUCTION ACCORDING TO THE INVASIVE PLANT MANAGEMENT STRATEGY SPECIFICATION.

PLANT LIST

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
1	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
SHRUBS					
4	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
1	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.

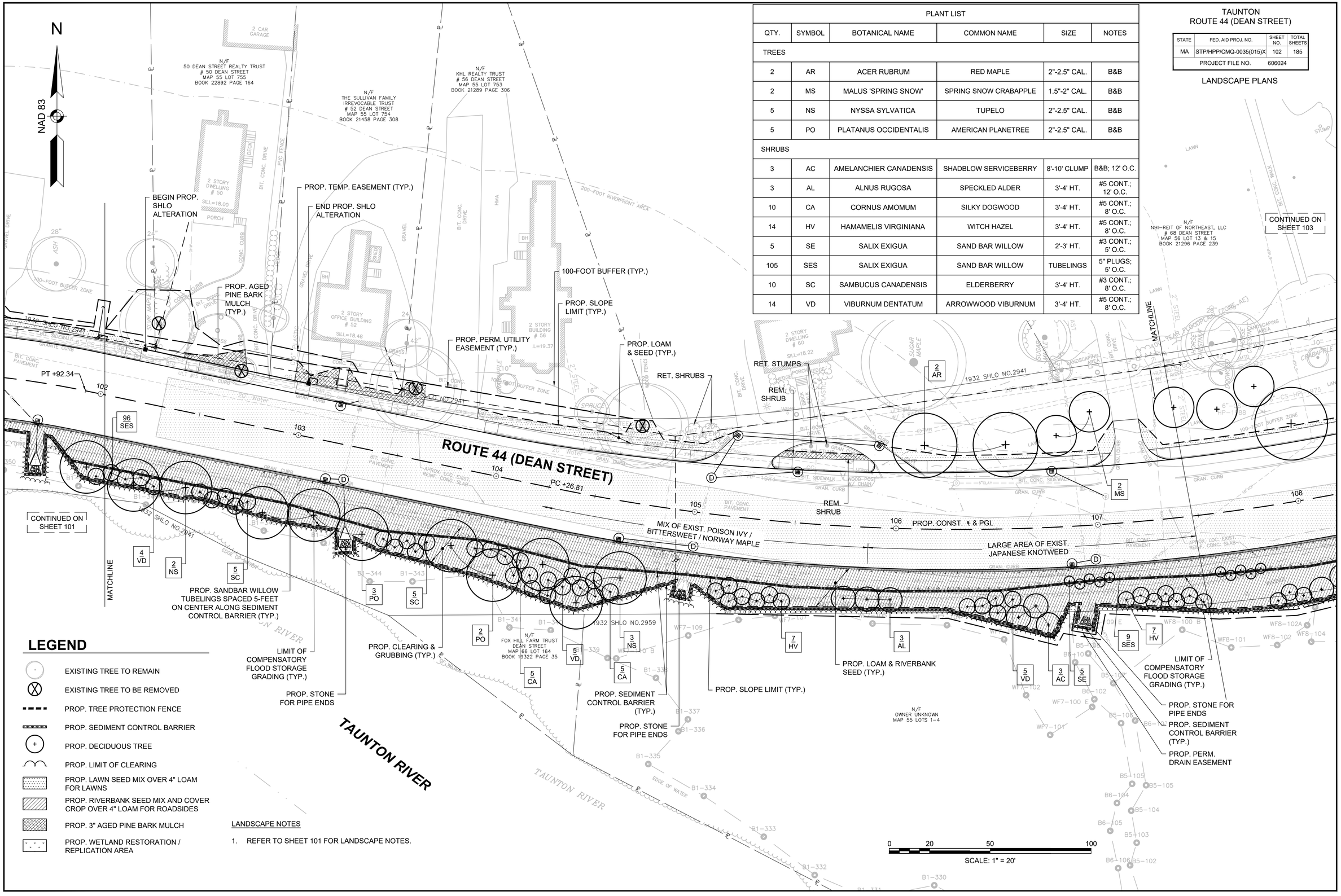
606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:53 PM

PLANT LIST					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
2	AR	ACER RUBRUM	RED MAPLE	2"-2.5" CAL.	B&B
2	MS	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	1.5"-2" CAL.	B&B
5	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
5	PO	PLATANUS OCCIDENTALIS	AMERICAN PLANETREE	2"-2.5" CAL.	B&B
SHRUBS					
3	AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8'-10' CLUMP	B&B; 12' O.C.
3	AL	ALNUS RUGOSA	SPECKLED ALDER	3'-4' HT.	#5 CONT.; 12' O.C.
10	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
14	HV	HAMAMELIS VIRGINIANA	WITCH HAZEL	3'-4' HT.	#5 CONT.; 8' O.C.
5	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
105	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
10	SC	SAMBUCUS CANADENSIS	ELDERBERRY	3'-4' HT.	#3 CONT.; 8' O.C.
14	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	102	185
PROJECT FILE NO.	606024		

LANDSCAPE PLANS



LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- PROP. TREE PROTECTION FENCE
- PROP. SEDIMENT CONTROL BARRIER
- PROP. DECIDUOUS TREE
- PROP. LIMIT OF CLEARING
- PROP. LAWN SEED MIX OVER 4" LOAM FOR LAWNS
- PROP. RIVERBANK SEED MIX AND COVER CROP OVER 4" LOAM FOR ROADSIDES
- PROP. 3" AGED PINE BARK MULCH
- PROP. WETLAND RESTORATION / REPLICATION AREA

LANDSCAPE NOTES

1. REFER TO SHEET 101 FOR LANDSCAPE NOTES.

606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:53 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	103	185
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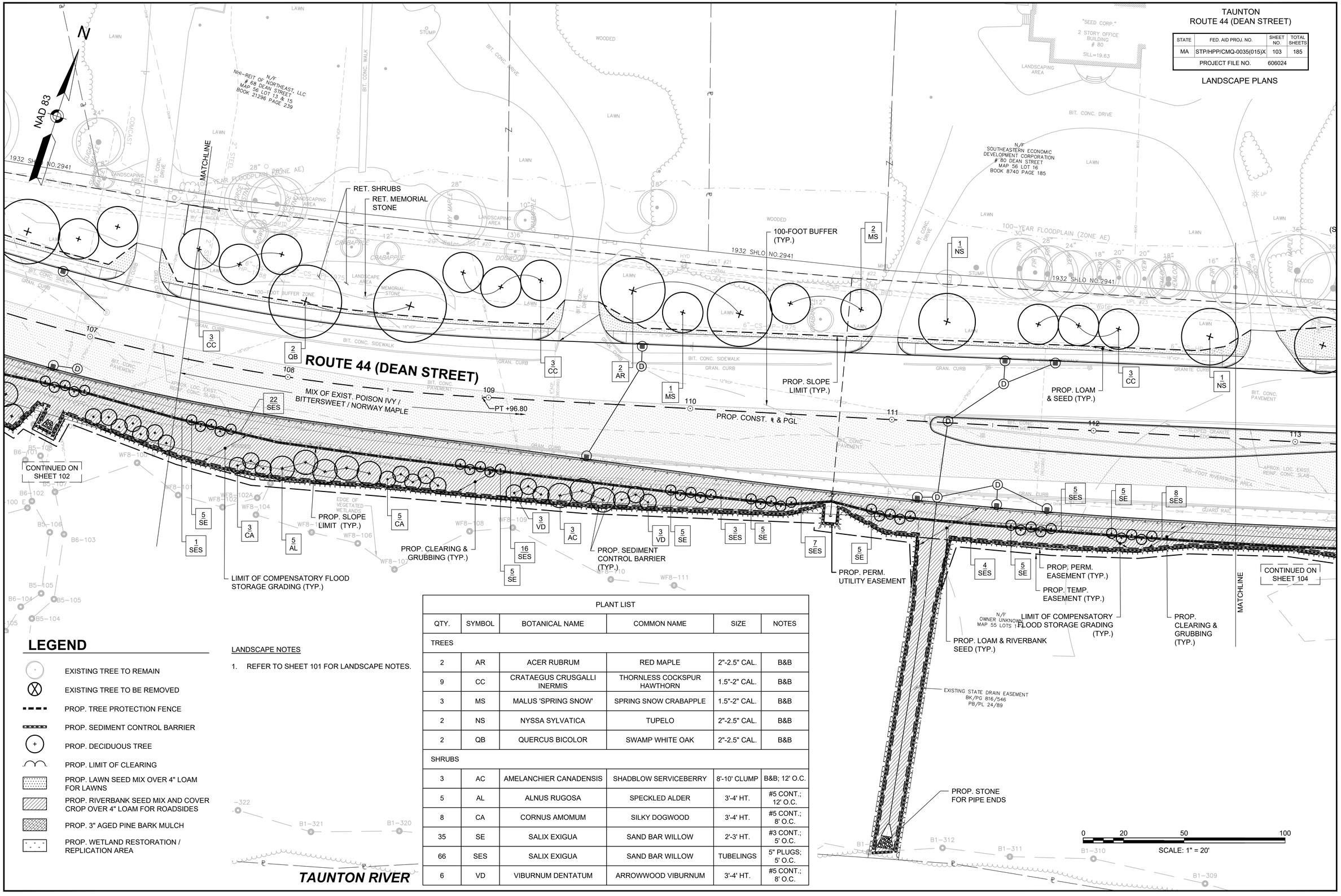
LANDSCAPE PLANS



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PLANT LIST

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
2	AR	ACER RUBRUM	RED MAPLE	2"-2.5" CAL.	B&B
9	CC	CRATAEGUS CRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN	1.5"-2" CAL.	B&B
3	MS	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	1.5"-2" CAL.	B&B
2	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
2	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2"-2.5" CAL.	B&B
SHRUBS					
3	AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8'-10' CLUMP	B&B; 12' O.C.
5	AL	ALNUS RUGOSA	SPECKLED ALDER	3'-4' HT.	#5 CONT.; 12' O.C.
8	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
35	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
66	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
6	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.

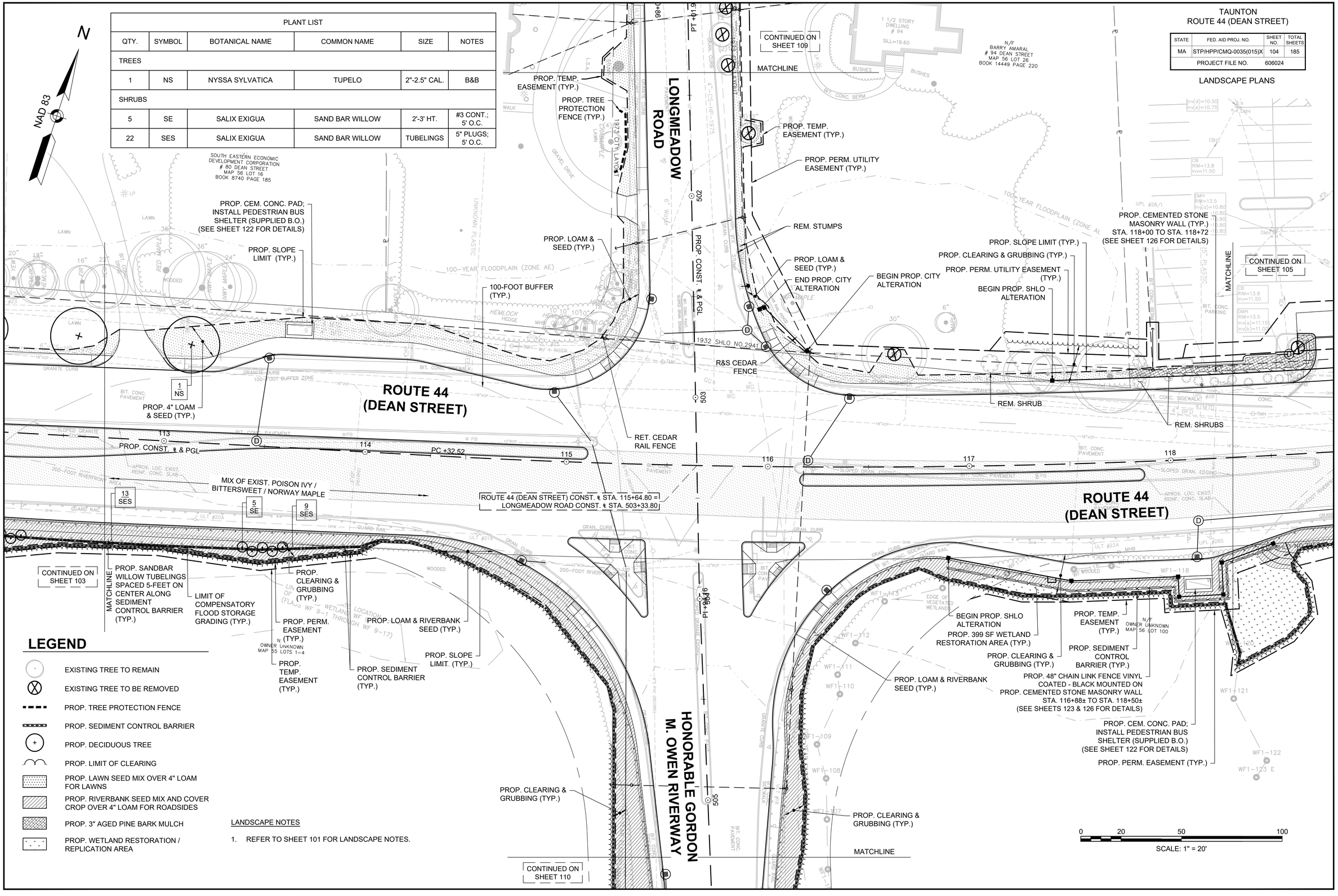
606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:53 PM

PLANT LIST					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
1	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
SHRUBS					
5	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
22	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	104	185
PROJECT FILE NO.	606024		

LANDSCAPE PLANS



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LANDSCAPE NOTES

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ROUTE 44 (DEAN STREET)

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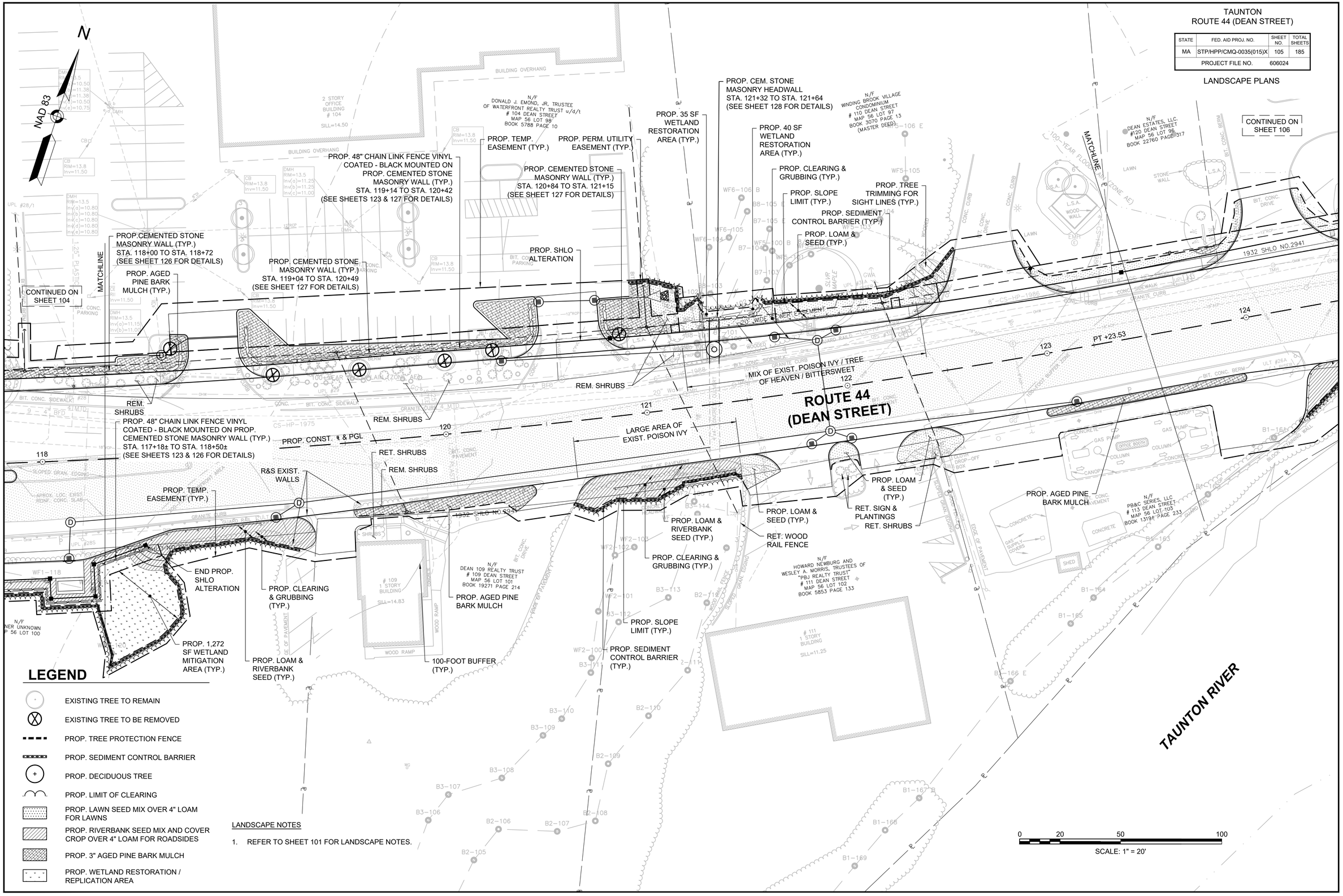
LANDSCAPE PLANS



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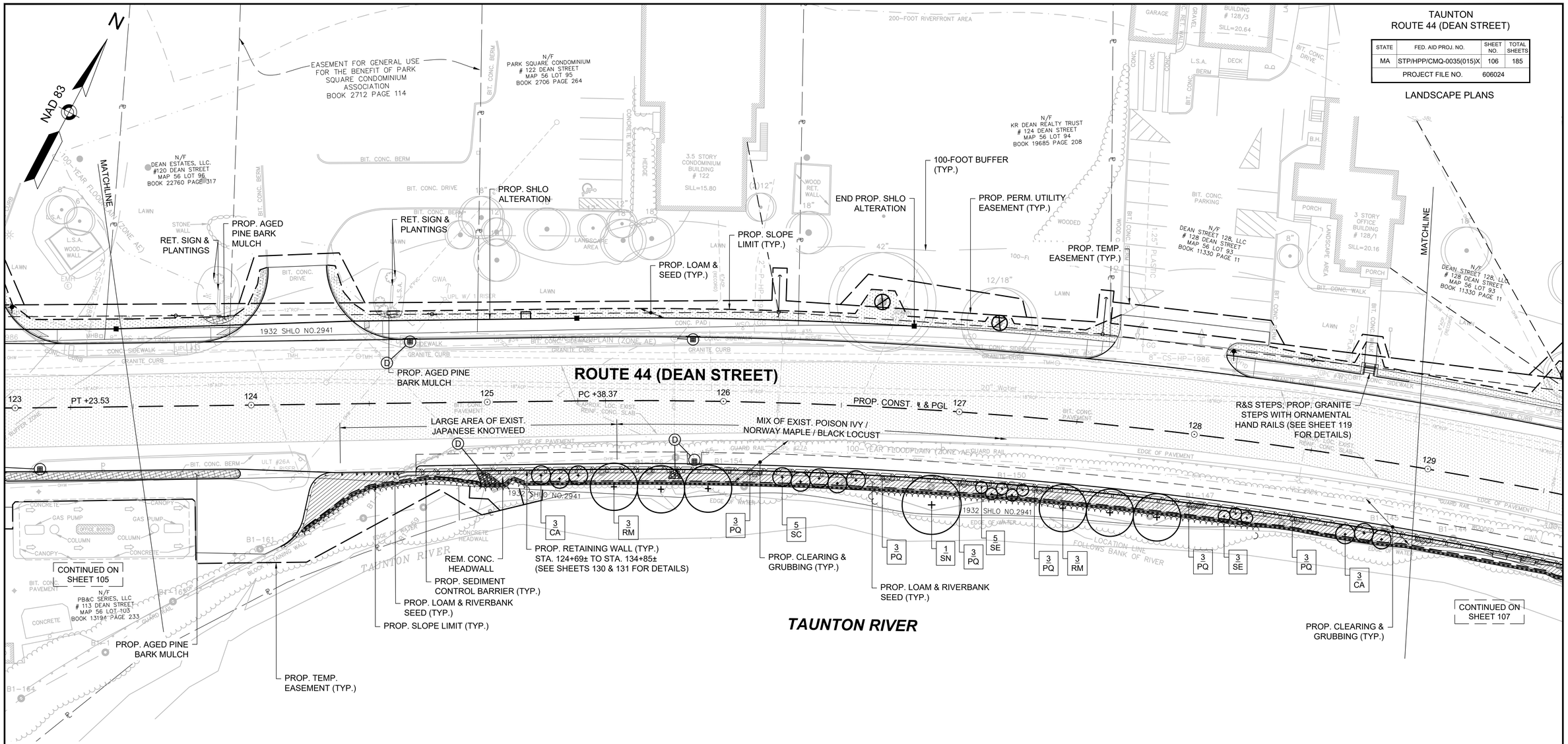

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LANDSCAPE NOTES

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PLANT LIST					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
6	RM	ACER RUBRUM	RED MAPLE	5'-7' HT.	#10 CONT.
1	SN	SALIX NIGRA	BLACK WILLOW	5'-7' HT.	#10 CONT.
SHRUBS					
6	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
8	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
5	SC	SAMBUCUS CANADENSIS	ELDERBERRY	3'-4' HT.	#3 CONT.; 8' O.C.
VINES					
18	PQ	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	#1 CONT.	AT BASE OF WALL

0 20 50 100
SCALE: 1" = 20'

606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:53 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	107	185
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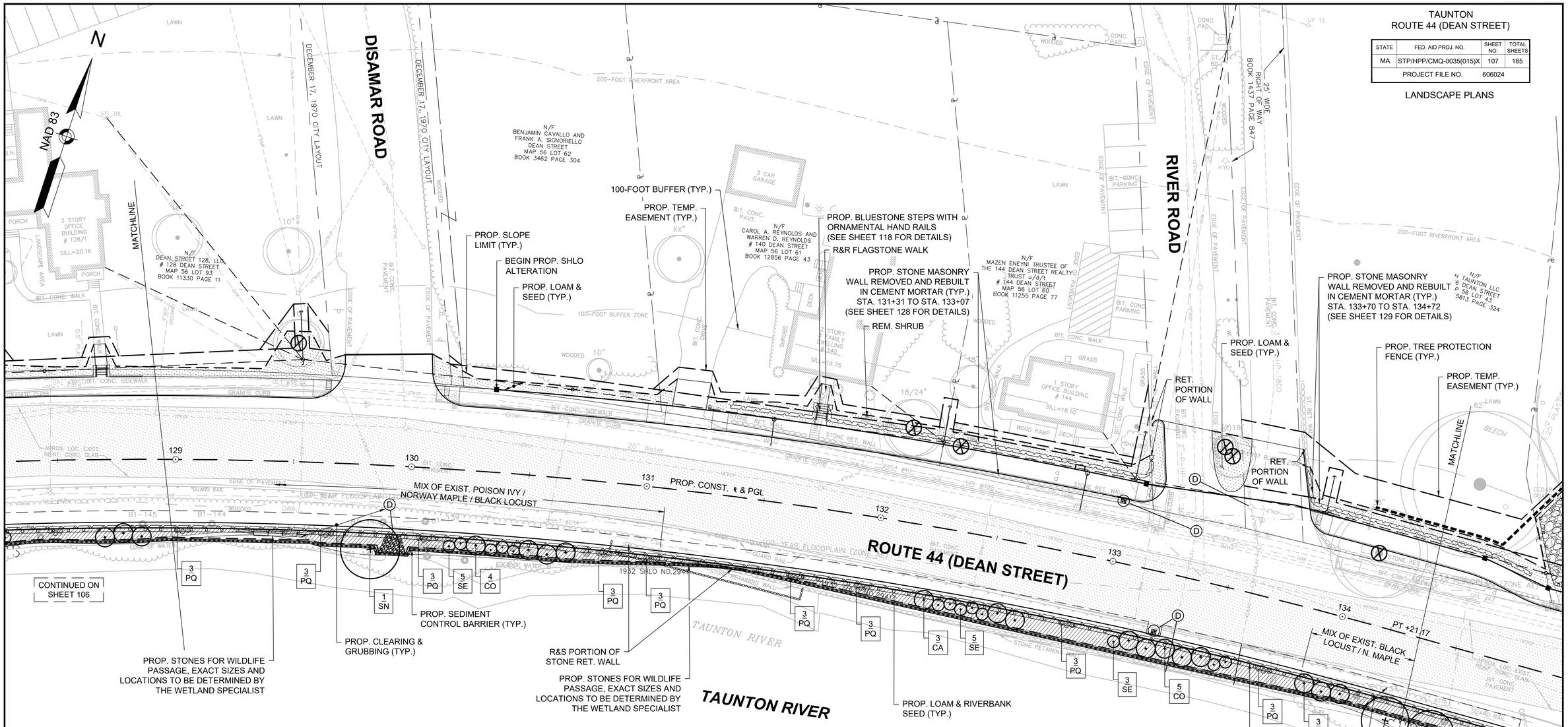
LANDSCAPE PLANS



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PLANT LIST

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
1	RM	ACER RUBRUM	RED MAPLE	5'-7' HT.	#10 CONT.
1	SN	SALIX NIGRA	BLACK WILLOW	5'-7' HT.	#10 CONT.
SHRUBS					
9	CO	CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH	3'-4' HT.	#3 CONT.; 8' O.C.
6	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
13	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
VINES					
27	PQ	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	#1 CONT.	AT BASE OF WALL

606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:54 PM

TAUNTON
ROUTE 44 (DEAN STREET)

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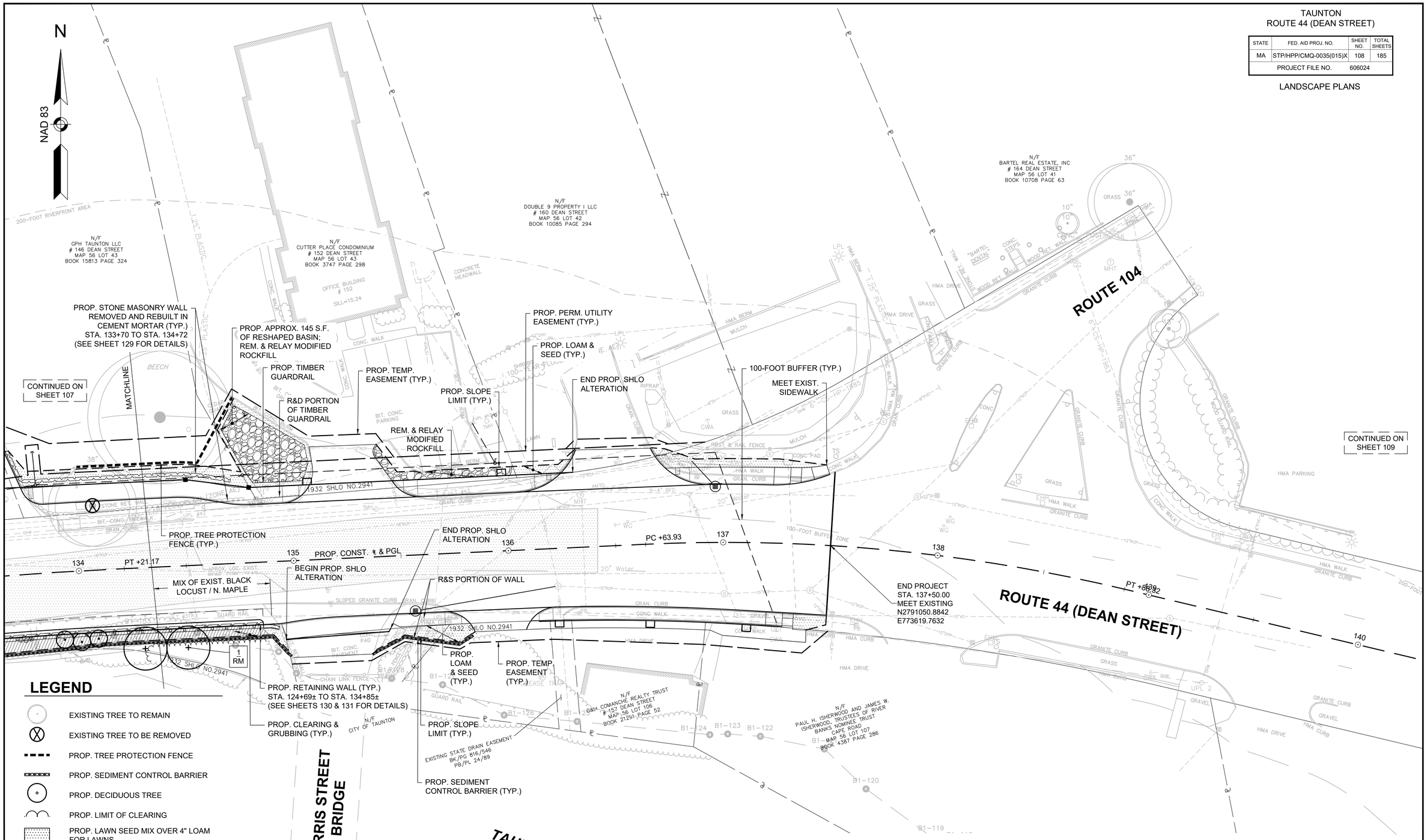
MA	STP/HPP/CMQ-0035(015)X	108	185
PROJECT FILE NO.	606024		

LANDSCAPE PLANS

606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:54 PM



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LANDSCAPE NOTES

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PLANT LIST					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
1	RM	ACER RUBRUM	RED MAPLE	5'-7' HT.	#10 CONT.

0 20 50 100
SCALE: 1" = 20'

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	109	185
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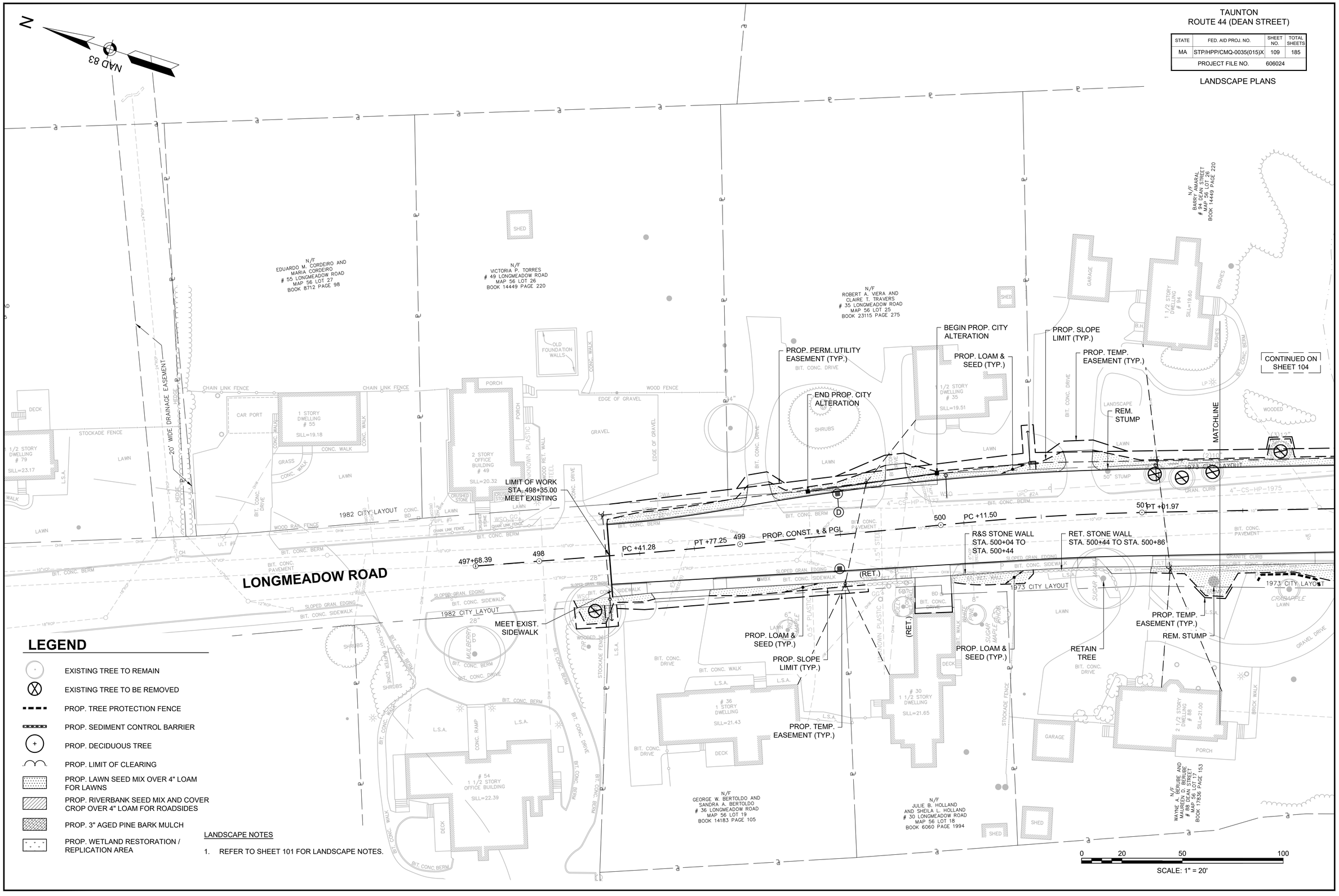
LANDSCAPE PLANS



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LANDSCAPE NOTES

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TAUNTON
ROUTE 44 (DEAN STREET)

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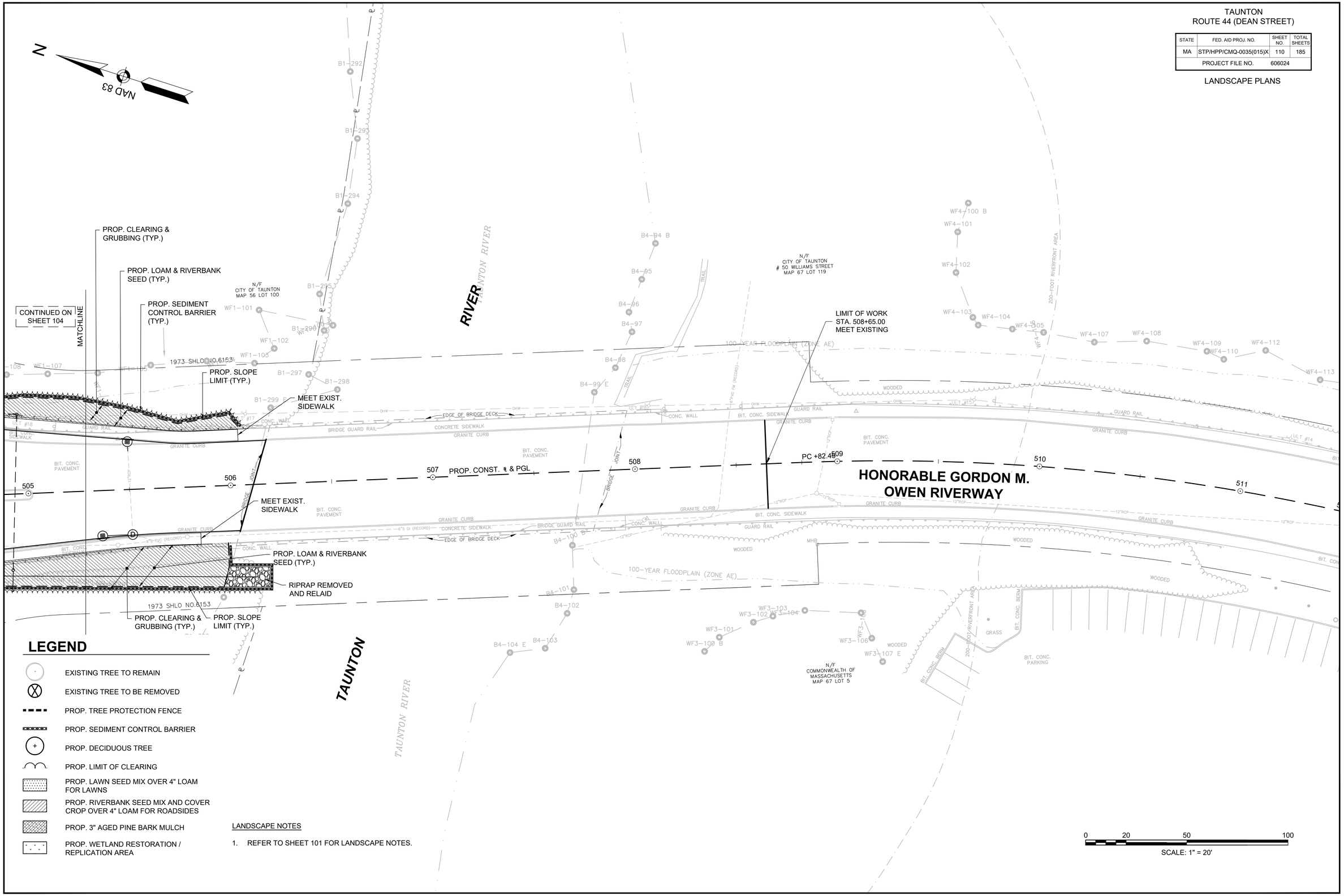
LANDSCAPE PLANS



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LANDSCAPE NOTES

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606024_HD_(LD).DWG Plotted on 26-Aug-2022 5:54 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	111	185
PROJECT FILE NO.	606024		

LANDSCAPE DETAILS

606024_HD_(LSD).DWG Plotted on 26-Aug-2022 5:54 PM

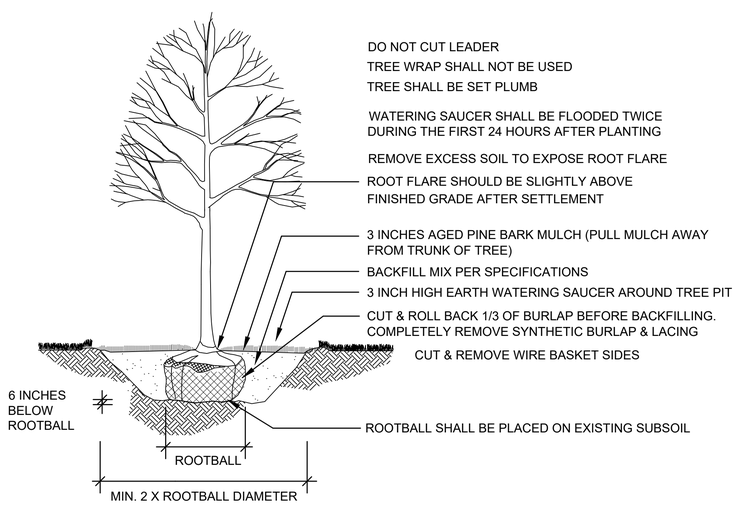
MASTER PLANT LIST

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	SHT 101	SHT 102	SHT 103	SHT 104	SHT 106	SHT 107	SHT 108
TREES												
4	AR	ACER RUBRUM	RED MAPLE	2"-2.5" CAL.	B&B	-	2	2	-	-	-	-
8	RM	ACER RUBRUM	RED MAPLE	5'-7' HT.	#10 CONT.	-	-	-	-	6	1	1
9	CC	CRATAEGUS CRUS-GALLI INERMIS	THORNLESS COCKSPUR HAWTHORN	1.5"-2" CAL.	B&B	-	-	9	-	-	-	-
5	MS	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	1.5"-2" CAL.	B&B	-	2	3	-	-	-	-
9	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B	1	5	2	1	-	-	-
5	PO	PLATANUS OCCIDENTALIS	AMERICAN PLANETREE	2"-2.5" CAL.	B&B	-	5	-	-	-	-	-
2	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2"-2.5" CAL.	B&B	-	-	2	-	-	-	-
2	SN	SALIX NIGRA	BLACK WILLOW	5'-7' HT.	#10 CONT.	-	-	-	-	1	1	-
SHRUBS												
6	AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8'-10' CLUMP	B&B; 12' O.C.	-	3	3	-	-	-	-
8	AL	ALNUS RUGOSA	SPECKLED ALDER	3'-4' HT.	#5 CONT.; 12' O.C.	-	3	5	-	-	-	-
9	CO	CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH	3'-4' HT.	#3 CONT.; 8' O.C.	-	-	-	-	-	9	-
30	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.	-	10	8	-	6	6	-
14	HV	HAMAMELIS VIRGINIANA	WITCH HAZEL	3'-4' HT.	#5 CONT.; 8' O.C.	-	14	-	-	-	-	-
66	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.	-	5	35	5	8	13	-
197	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.	4	105	66	22	-	-	-
15	SC	SAMBUCUS CANADENSIS	ELDERBERRY	3'-4' HT.	#3 CONT.; 8' O.C.	-	10	-	-	5	-	-
21	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.	1	14	6	-	-	-	-
VINES												
45	PQ	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	#1 CONT.	AT BASE OF WALL	-	-	-	-	18	27	-

SEEDING SCHEDULE

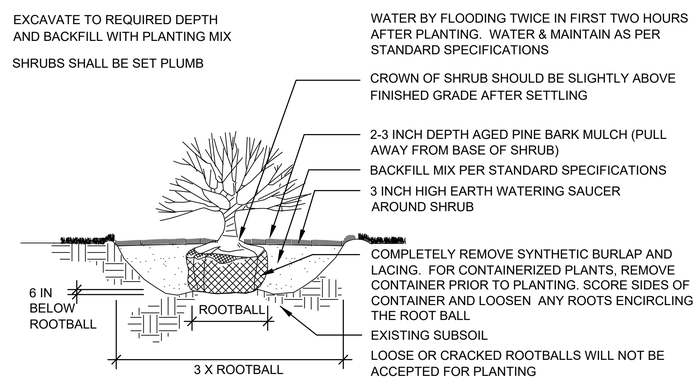
LEGEND	TYPE	SUB TYPE	NOTES
	LAWN SEED MIX	LAWNS OR SLOPES AND SHOULDERS - M6.03.0	FOR USE IN YARDS AND SHOULDERS FREQUENTLY MOWN. (SEED OVER 4" LOAM FOR LAWNS)
	RIVERBANK SEED MIX	PART SHADE	FOR USE IN NO MOW / INFREQUENTLY MOWN AREAS; RIVERBANK SEED SHALL BE BROADCAST MANUALLY. (SEED AND COVER CROP OVER 4" LOAM FOR ROADSIDES)
	* WETLAND SEED MIX	PART SHADE	FOR USE IN WETLAND RESTORATION & REPLICATION AREAS; REFER TO SPECIAL PROVISIONS.

* INCIDENTAL TO WETLAND RESTORATION & MITIGATION AREAS



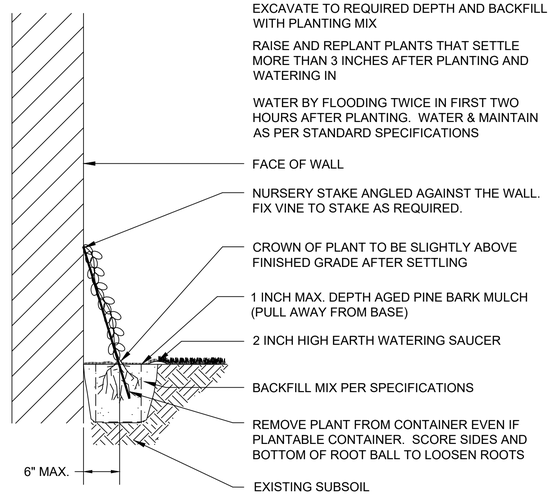
DECIDUOUS TREE PLANTING

NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE



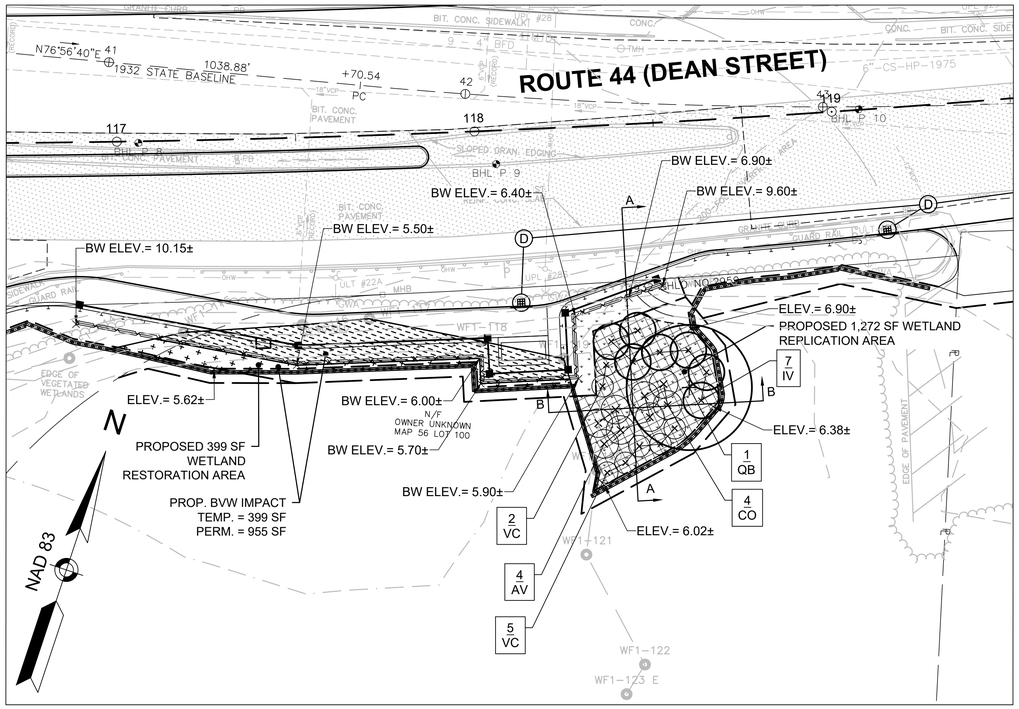
VINE PLANTING

NOT TO SCALE

TAUNTON
ROUTE 44 (DEAN STREET)

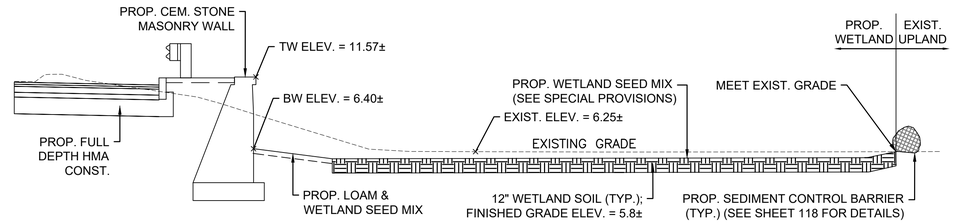
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	112	185
PROJECT FILE NO.	606024		

WETLAND REPLICATION PLAN



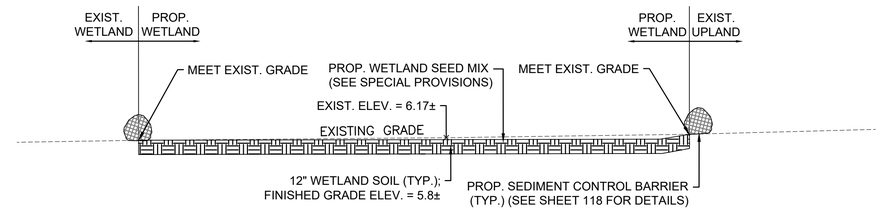
WETLAND REPLICATION & RESTORATION PLAN

SCALE: 1" = 20'-0"



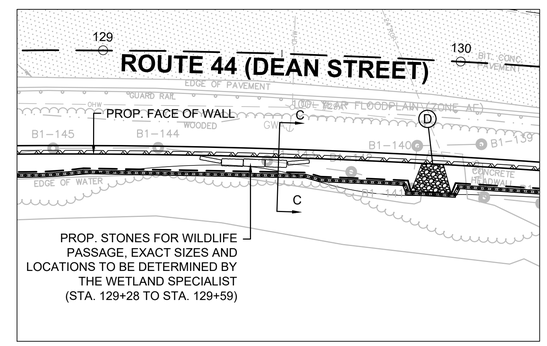
SECTION A-A

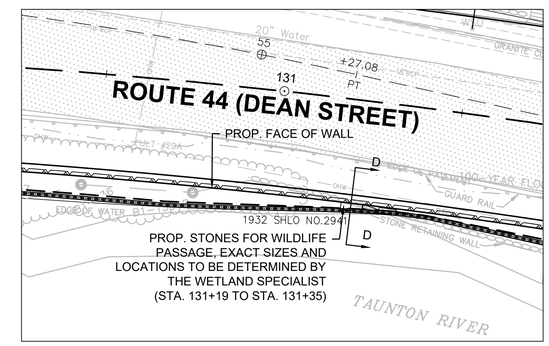
SCALE: 1" = 5'-0"



SECTION B-B

SCALE: 1" = 5'-0"





STONES FOR WILDLIFE PASSAGE - PLAN VIEW

SCALE: 1" = 20'-0"

*WETLAND REPLICATION PLANT SCHEDULE						
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	**NWI STATUS**
4	CO	CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH	3'-4' HT.	6' O.C.; #3 CONT.	OBL
6	IV	ILEX VERTICILLATA	COMMON WINTERBERRY (FEMALE)	3'-4' HT.	8' O.C.; #3 CONT.	FACW
1	IV	ILEX VERTICILLATA	COMMON WINTERBERRY (MALE)	3'-4' HT.	8' O.C.; #3 CONT.	FACW
4	AV	AZALEA VISCOSUM	SWAMP AZALEA	2'-3' HT.	6' O.C.; #3 CONT.	FACW
1	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	1"-1.5" CAL.	#15 CONT.	FACW
7	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2'-3' HT.	6' O.C.; #3 CONT.	FACW

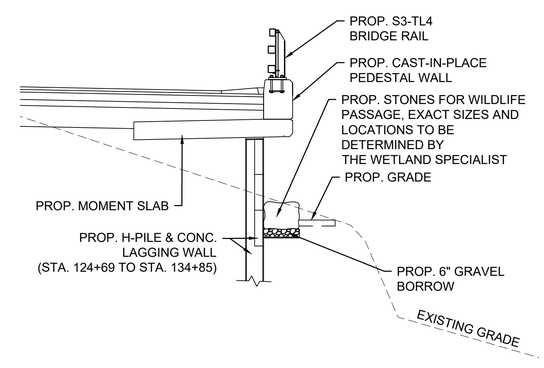
*WETLAND PLANTS ARE INCIDENTAL TO INLAND WETLAND REPLICATION AREAS

LEGEND

- PROP. SEDIMENT CONTROL BARRIER
- PROP. DECIDUOUS TREE
- PROP. SHRUB
- PROP. WETLAND SEED MIX
- TEMP. BVW IMPACT / PROP. WETLAND RESTORATION (399 SF)
- PERM. BVW IMPACT (955 SF)
- PROP. WETLAND REPLICATION (1,272 SF)

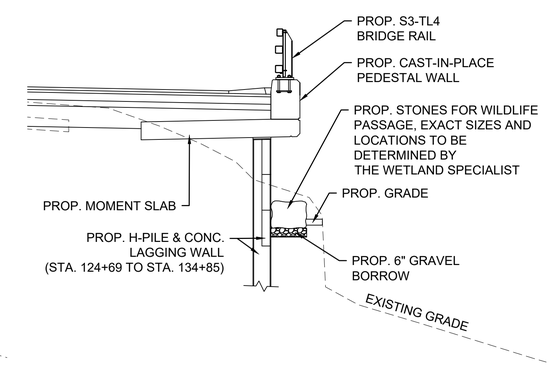
WETLAND REPLICATION & RESTORATION NOTES

1. PRIOR TO ENGAGING IN CONSTRUCTION ACTIVITIES RELATED TO THE REPLACEMENT WETLAND, THE CONTRACTOR SHALL BE REQUIRED TO MEET WITH THE WETLAND SPECIALIST TO REVIEW ANY SPECIAL CONSTRUCTION AND EROSION CONTROL REQUIREMENTS.
2. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED SUCH THAT EXCAVATED WETLAND SOIL SHALL BE RELOCATED AS QUICKLY AS POSSIBLE.
3. TO MINIMIZE COMPACTION OF THE INSTALLED HYDRIC SOILS, THE CONTRACTOR SHALL USE SMALL CONSTRUCTION EQUIPMENT (LESS THAN 9000 LBS OPERATING WEIGHT) AND HAND METHODS AS APPROVED BY THE WETLAND SPECIALIST AND AS DIRECTED BY THE ENGINEER WHEN GRADING AND PLANTING THE PROPOSED WETLAND REPLICATION AREA.
4. SOME TREES CUT FOR WETLAND REPLICATION SHALL BE RE-USED ON SITE FOR RESTORATION PURPOSES. CUT TREES SHALL BE RE-LAID WITHIN THE WETLAND / DISTURBED AREA PER THE DIRECTION OF THE WETLAND SPECIALIST.
5. WETLAND SPECIALIST SHALL LOCATE PLANTS IN WETLAND REPLICATION AND RESTORATION AREAS AS APPROPRIATE TO BEST PROTECT AND RESTORE DISTURBED AREA. COMPOST TOPSOIL SHALL BE USED IN LIEU OF MULCH AROUND PLANTS.
6. APPLY WETLAND SEED MIX TO WETLAND REPLICATION AREA AS WELL AS WETLAND RESTORATION AREAS AS PER THE SPECIAL PROVISIONS.
7. COMPOST FILTER TUBES SHALL BE 100% BIODEGRADABLE AND LEFT IN PLACE AT THE CONCLUSION OF WETLAND REPLICATION CONSTRUCTION. ANY NON-BIODEGRADABLE MATERIAL, IF USED, SHALL BE REMOVED AND DISPOSED OF OFF SITE AT CONTRACTOR'S EXPENSE. FILTER TUBE COMPOST SHALL BE SPREAD / RAKED AROUND TO ELIMINATE BERM.



SECTION C-C

SCALE: 1" = 5'-0"



SECTION D-D

SCALE: 1" = 5'-0"

606024_HD_(EV).DWG Plotted on 26-Aug-2022 5:55 PM

PLANT SCHEDULE
OFFSITE RIVERFRONT MITIGATION - (LOCATION TO BE DETERMINED)

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
DECIDUOUS TREES					
8	AR	AER RUBRUM	RED MAPLE	4'-5' HT.	20' O.C.; #7 CONT.
8	BL	BETULA LENATA	BLACK BIRCH	4'-5' HT.	20' O.C.; #7 CONT.
8	QA	QUERCUS ALBA	WHITE OAK	4'-5' HT.	20' O.C.; #7 CONT.
EVERGREEN TREES					
6	JV	JUNIPERUS VIRGINIANA	RED CEDAR	4'-5' HT.	20' O.C.; #7 CONT.
6	PS	PINUS STROBUS	WHITE PINE	4'-5' HT.	20' O.C.; #7 CONT.
SHRUBS					
36	AA	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	3'-4' HT.	3' O.C.; #3 CONT.
36	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	3'-4' HT.	3' O.C.; #3 CONT.
30	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	3'-4' HT.	4' O.C.; #3 CONT.
20	CR	CORNUS RACEMOSA	GRAYTWIG DOGWOOD	3'-4' HT.	4' O.C.; #3 CONT.
30	CS	CORNUS SERICEA	REDOISER DOGWOOD	3'-4' HT.	4' O.C.; #3 CONT.
30	IG	ILEX GLABRA	INKBERRY	2'-3' HT.	4' O.C.; #3 CONT.
30	MP	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	2'-3' HT.	4' O.C.; #3 CONT.
30	RG	RHUS GLABRA	SMOOTH SUMAC	2'-3' HT.	4' O.C.; #1 CONT.
30	SC	SAMBUCUS CANADENSIS	ELDERBERRY	2'-3' HT.	4' O.C.; #1 CONT.
36	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	3'-4' HT.	3' O.C.; #3 CONT.
20	VP	VIBURNUM PRUNIFOLIUM	BLACKHAW VIBURNUM	3'-4' HT.	4' O.C.; #3 CONT.
20	VT	VIBURNUM TRILOBUM	CRANBERRYBUSH	3'-4' HT.	4' O.C.; #3 CONT.

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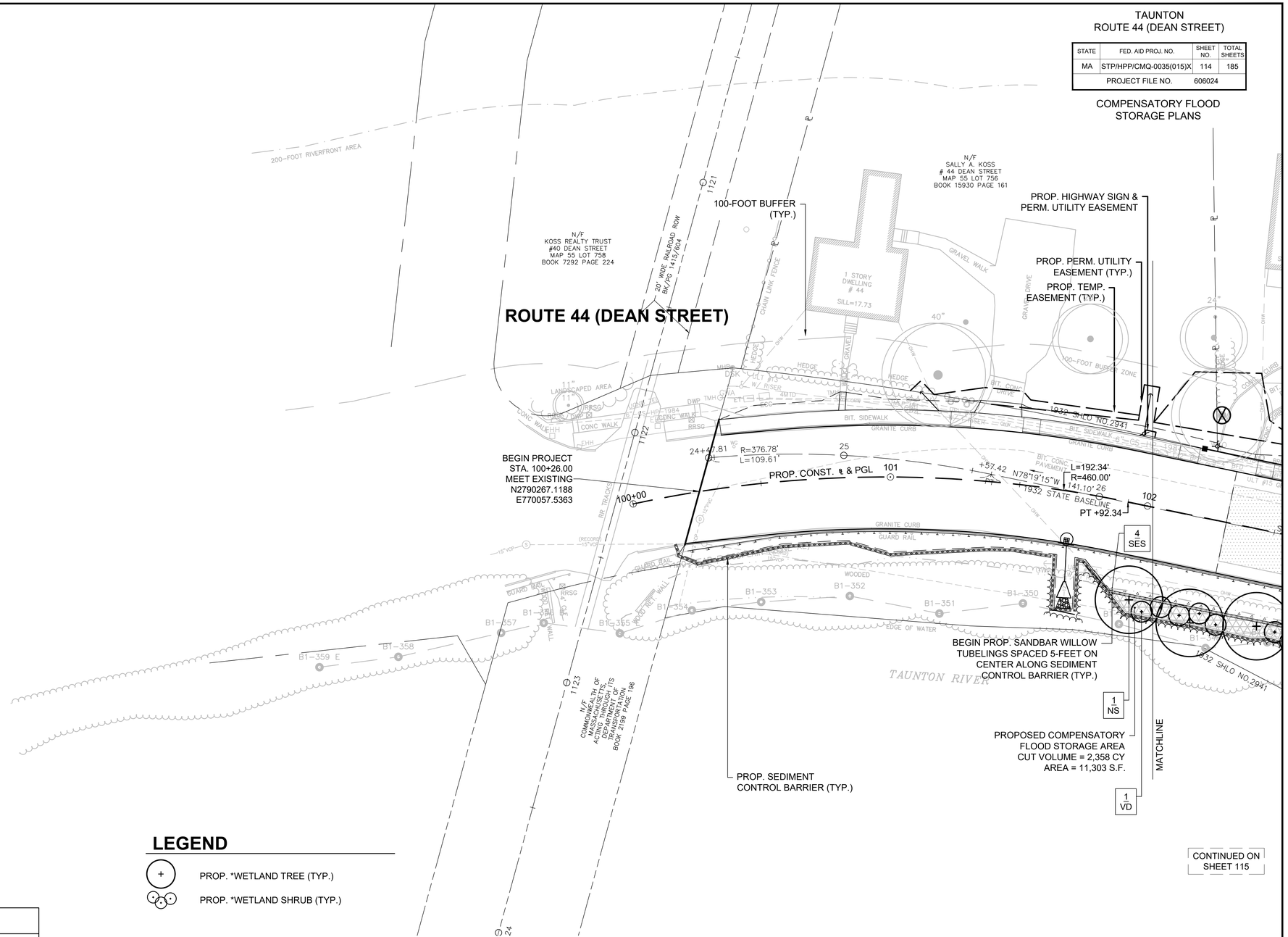
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	114	185
PROJECT FILE NO.	606024		

COMPENSATORY FLOOD STORAGE PLANS



COMPENSATORY FLOOD STORAGE NOTES:

1. COMPENSATORY FLOOD STORAGE AREA SEED MIX SHALL BE AS SPECIFIED IN ITEM 765.442 OF THE SPECIAL PROVISIONS. THIS SEED MIX SHALL BE USED IN THE DESIGNATED LIMITS OF THE COMPENSATORY FLOOD STORAGE AREA.
2. SEE LANDSCAPE PLANS FOR SEEDING IN UPLAND AREAS.
3. PLANT SPACING AND ALL LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS OF BUFFER AND WETLAND PLANTINGS SHALL BE APPROVED IN THE FIELD BY THE WETLAND SPECIALIST AND LANDSCAPE ARCHITECT.
4. WETLAND SPECIALIST SHALL MAKE FINAL DECISION OF PLANT LOCATIONS BASED ON BUILT CONDITIONS. IF SOIL IS TOO WET, WETLAND SPECIALIST SHALL WORK WITH CONTRACTOR TO EITHER MODIFY SOIL GRADE OR TYPE OR DETERMINE NEW LOCATIONS FOR PLANT MATERIAL.
5. WETLAND SPECIALIST SHALL COORDINATE WITH THE CONTRACTOR TO PRESERVE LOGS FOR RE-USE IN THE WETLAND AREAS AND COMPENSATORY FLOOD STORAGE AREA PRIOR TO CLEARING. PLACEMENT OF LOGS IN THE WETLAND SHALL BE AS DIRECTED BY THE SPECIALIST.
6. IF FEASIBLE, 5-7 TREES SHALL BE LEFT AS SNAGS IN THE WETLAND REPLICATION AREA AND COMPENSATORY FLOOD STORAGE AREA. TREES SHALL BE SELECTED BY THE WETLAND SPECIALIST AND SHALL BE THOSE WITH AS LARGE A CALIPER AS POSSIBLE.

LEGEND

PROP. *WETLAND TREE (TYP.)

PROP. *WETLAND SHRUB (TYP.)

WETLAND RESOURCE AREA LEGEND	
WF# B#	LIMIT OF BANK / BORDERING VEGETATED WETLAND (BVW)
	LIMIT OF 100-FT BUFFER ZONE
	LIMIT OF BORDERING LAND SUBJECT TO FLOODING (ZONE A)
	PROPOSED AREA OF COMPENSATORY FLOOD STORAGE

* COMPENSATORY FLOOD STORAGE PLANTING SCHEDULE					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
1	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
SHRUBS					
4	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
1	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.

NOTES:

1. REFER TO SHEET 115 FOR COMPENSATORY FLOOD STORAGE AREA SECTION.

0 20 50 100
SCALE: 1" = 20'

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TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	115	185
PROJECT FILE NO.	606024		

COMPENSATORY FLOOD STORAGE PLANS

LEGEND

PROP. *WETLAND TREE (TYP.)

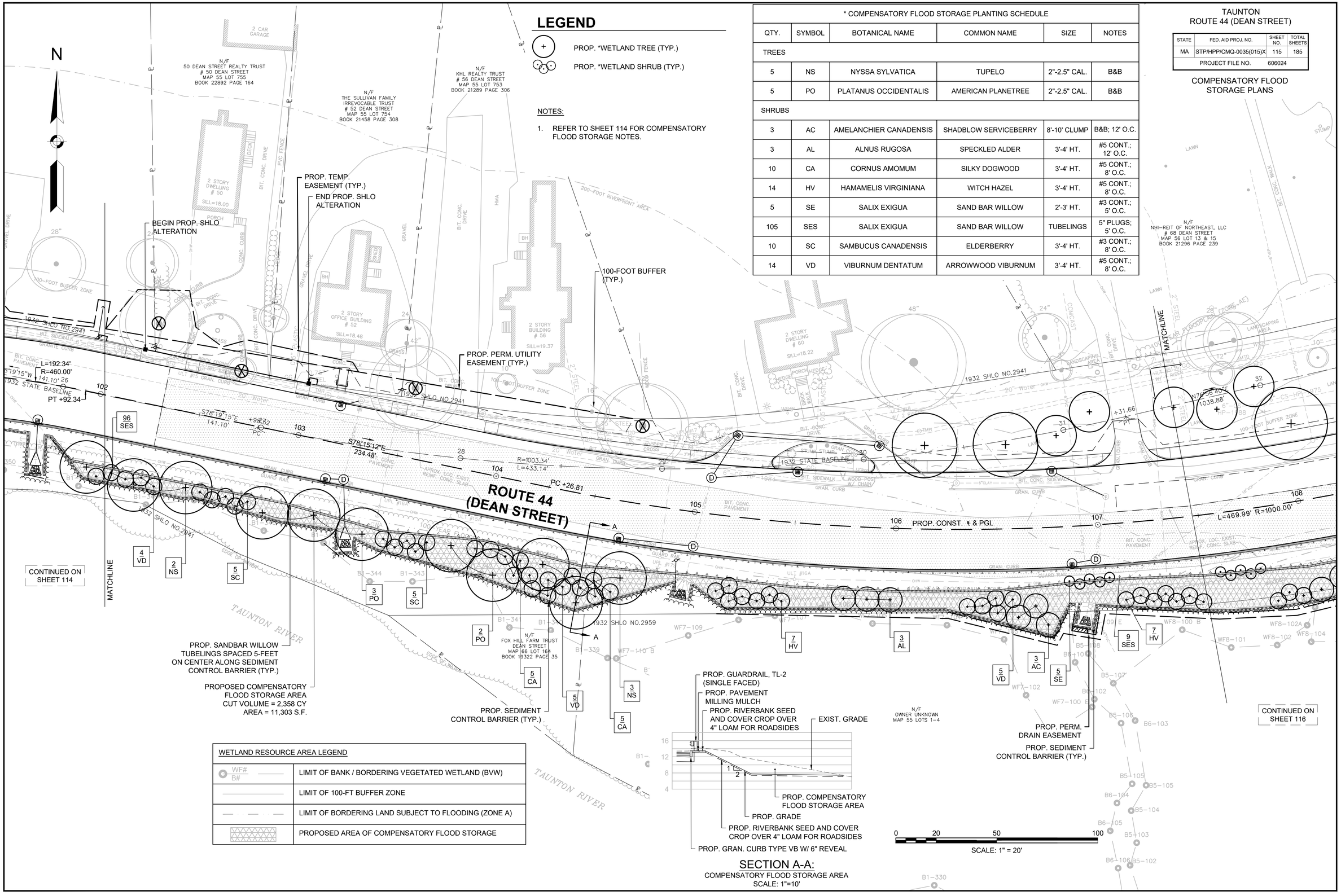
PROP. *WETLAND SHRUB (TYP.)

NOTES:

1. REFER TO SHEET 114 FOR COMPENSATORY FLOOD STORAGE NOTES.

* COMPENSATORY FLOOD STORAGE PLANTING SCHEDULE

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
5	NS	NYSSA SYLVATICA	TUPELO	2"-2.5" CAL.	B&B
5	PO	PLATANUS OCCIDENTALIS	AMERICAN PLANETREE	2"-2.5" CAL.	B&B
SHRUBS					
3	AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8'-10' CLUMP	B&B; 12' O.C.
3	AL	ALNUS RUGOSA	SPECKLED ALDER	3'-4' HT.	#5 CONT.; 12' O.C.
10	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
14	HV	HAMAMELIS VIRGINIANA	WITCH HAZEL	3'-4' HT.	#5 CONT.; 8' O.C.
5	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
105	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
10	SC	SAMBUCUS CANADENSIS	ELDERBERRY	3'-4' HT.	#3 CONT.; 8' O.C.
14	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.



WETLAND RESOURCE AREA LEGEND	
WF# B#	LIMIT OF BANK / BORDERING VEGETATED WETLAND (BVW)
	LIMIT OF 100-FT BUFFER ZONE
	LIMIT OF BORDERING LAND SUBJECT TO FLOODING (ZONE A)
	PROPOSED AREA OF COMPENSATORY FLOOD STORAGE

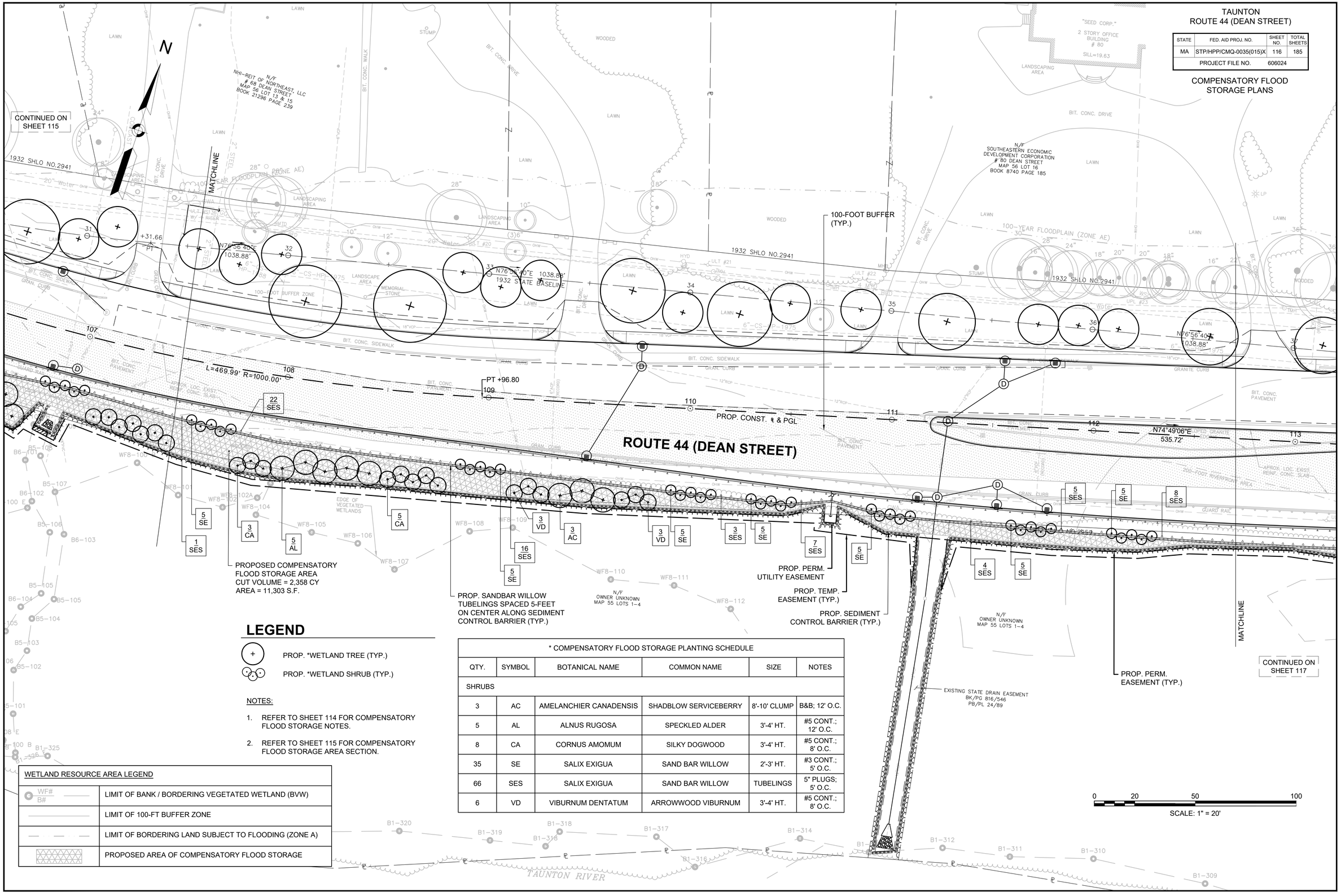
SECTION A-A:
COMPENSATORY FLOOD STORAGE AREA
SCALE: 1"=10'

606024_HD_(FP).DWG Plotted on 26-Aug-2022 5:55 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	116	185
PROJECT FILE NO.	606024		

COMPENSATORY FLOOD STORAGE PLANS



LEGEND

PROP. *WETLAND TREE (TYP.)

PROP. *WETLAND SHRUB (TYP.)

NOTES:

1. REFER TO SHEET 114 FOR COMPENSATORY FLOOD STORAGE NOTES.
2. REFER TO SHEET 115 FOR COMPENSATORY FLOOD STORAGE AREA SECTION.

WETLAND RESOURCE AREA LEGEND	
WF# B#	LIMIT OF BANK / BORDERING VEGETATED WETLAND (BVW)
	LIMIT OF 100-FT BUFFER ZONE
	LIMIT OF BORDERING LAND SUBJECT TO FLOODING (ZONE A)
	PROPOSED AREA OF COMPENSATORY FLOOD STORAGE

* COMPENSATORY FLOOD STORAGE PLANTING SCHEDULE

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHRUBS					
3	AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8'-10' CLUMP	B&B; 12' O.C.
5	AL	ALNUS RUGOSA	SPECKLED ALDER	3'-4' HT.	#5 CONT.; 12' O.C.
8	CA	CORNUS AMOMUM	SILKY DOGWOOD	3'-4' HT.	#5 CONT.; 8' O.C.
35	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
66	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.
6	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4' HT.	#5 CONT.; 8' O.C.

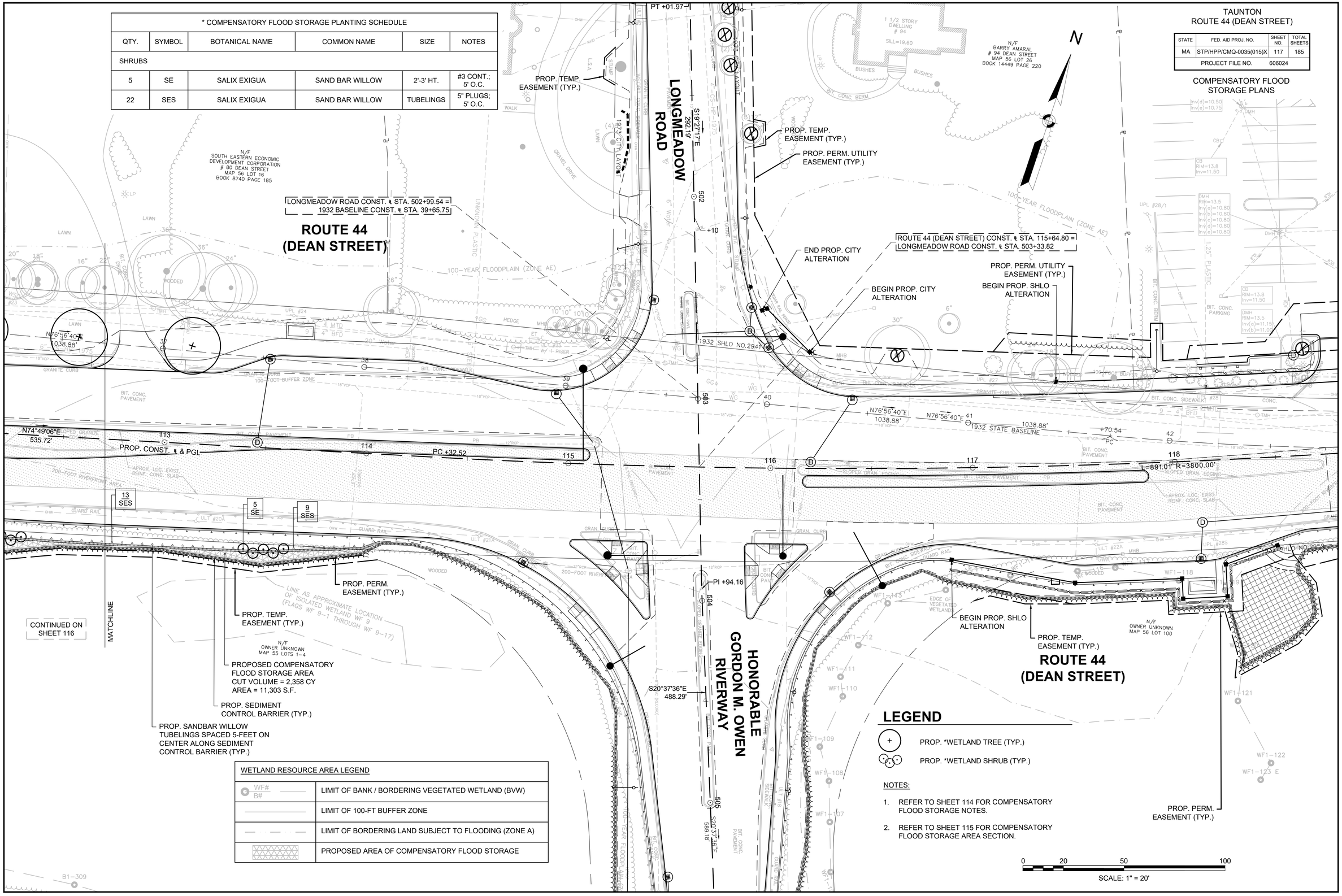
606024_HD_(FP).DWG Plotted on 26-Aug-2022 5:55 PM

* COMPENSATORY FLOOD STORAGE PLANTING SCHEDULE					
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHRUBS					
5	SE	SALIX EXIGUA	SAND BAR WILLOW	2'-3' HT.	#3 CONT.; 5' O.C.
22	SES	SALIX EXIGUA	SAND BAR WILLOW	TUBELINGS	5" PLUGS; 5' O.C.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	117	185
PROJECT FILE NO.	606024		

COMPENSATORY FLOOD STORAGE PLANS



WETLAND RESOURCE AREA LEGEND	
WF# / B#	LIMIT OF BANK / BORDERING VEGETATED WETLAND (BVW)
	LIMIT OF 100-FT BUFFER ZONE
	LIMIT OF BORDERING LAND SUBJECT TO FLOODING (ZONE A)
	PROPOSED AREA OF COMPENSATORY FLOOD STORAGE

LEGEND

PROP. *WETLAND TREE (TYP.)

PROP. *WETLAND SHRUB (TYP.)

NOTES:

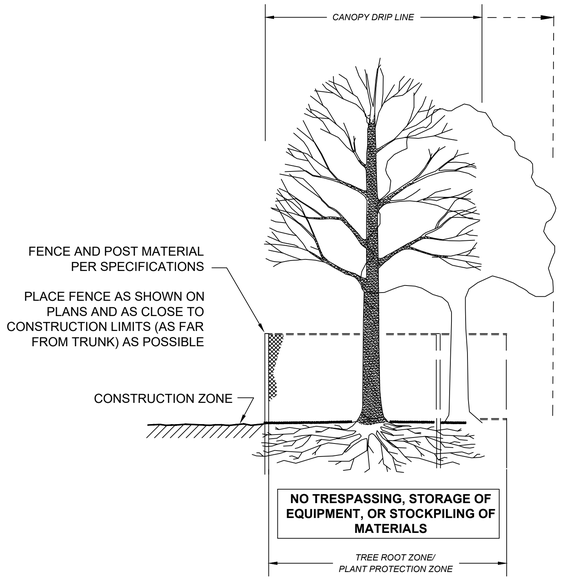
1. REFER TO SHEET 114 FOR COMPENSATORY FLOOD STORAGE NOTES.
2. REFER TO SHEET 115 FOR COMPENSATORY FLOOD STORAGE AREA SECTION.

606024_HD_(FP).DWG Plotted on 26-Aug-2022 5:56 PM

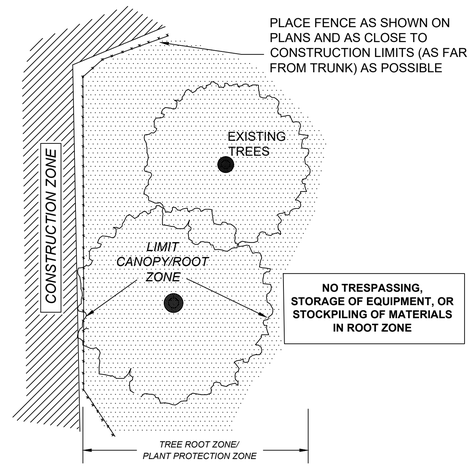
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	118	185
PROJECT FILE NO.	606024		

CONSTRUCTION DETAILS



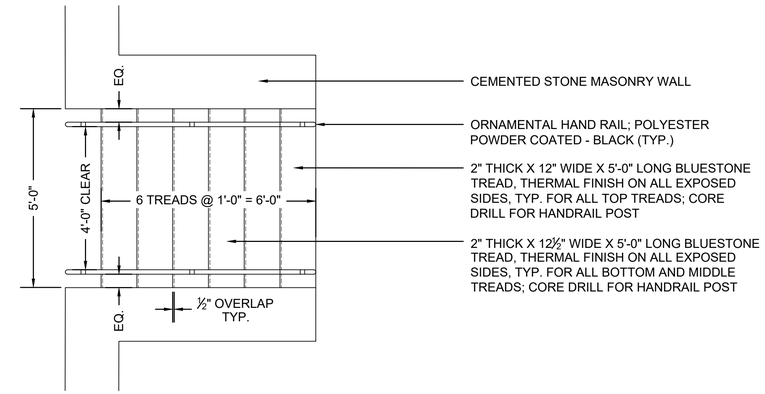
SECTION - FENCE PROTECTION OF ROOT ZONE



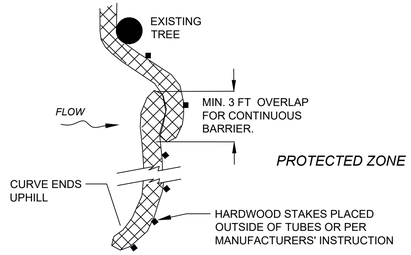
PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

TREE PROTECTION - ROOT ZONE

NOT TO SCALE



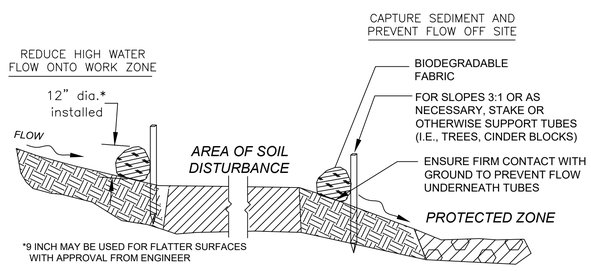
PLAN



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLAN VIEW

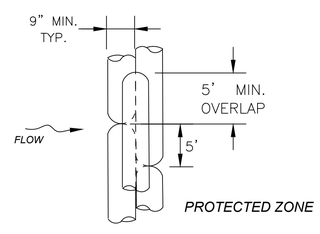


SECTION

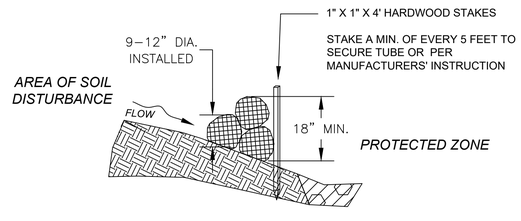
SEDIMENT BARRIER - COMPOST FILTER TUBE

NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED



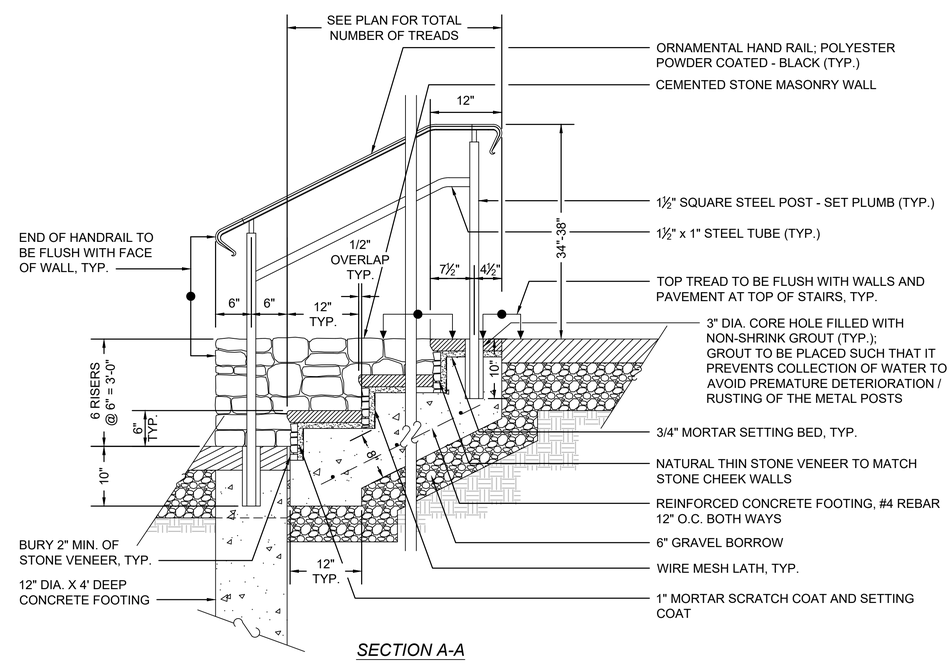
PLAN VIEW



SECTION

COMPOST FILTER TUBES STACKED

NOT TO SCALE



SECTION A-A

BLUESTONE STEPS WITH ORNAMENTAL HAND RAILS

NOT TO SCALE

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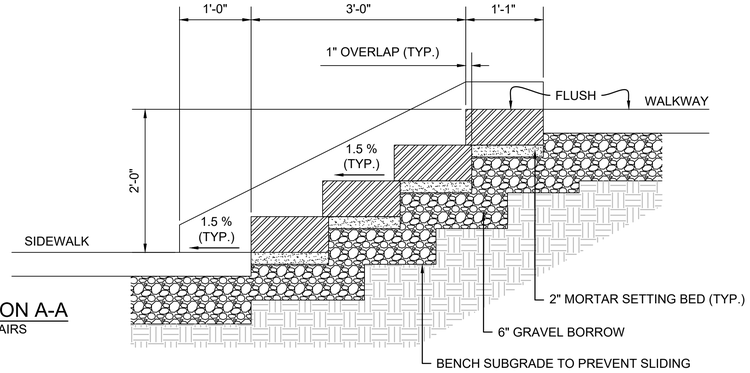
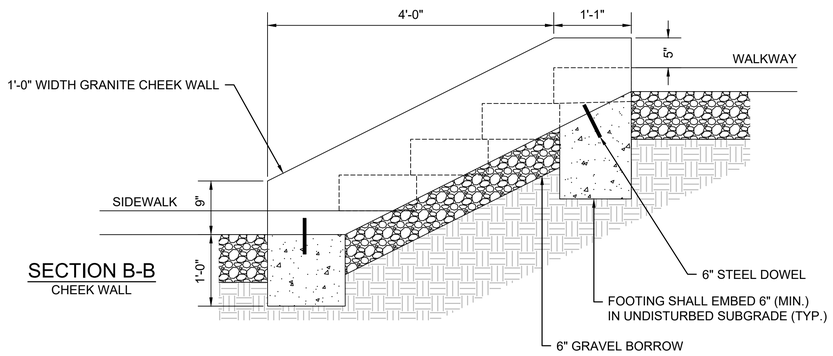
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	119	185
PROJECT FILE NO.	606024		

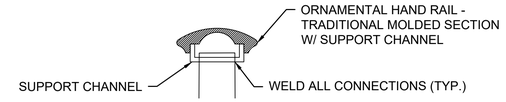
CONSTRUCTION DETAILS



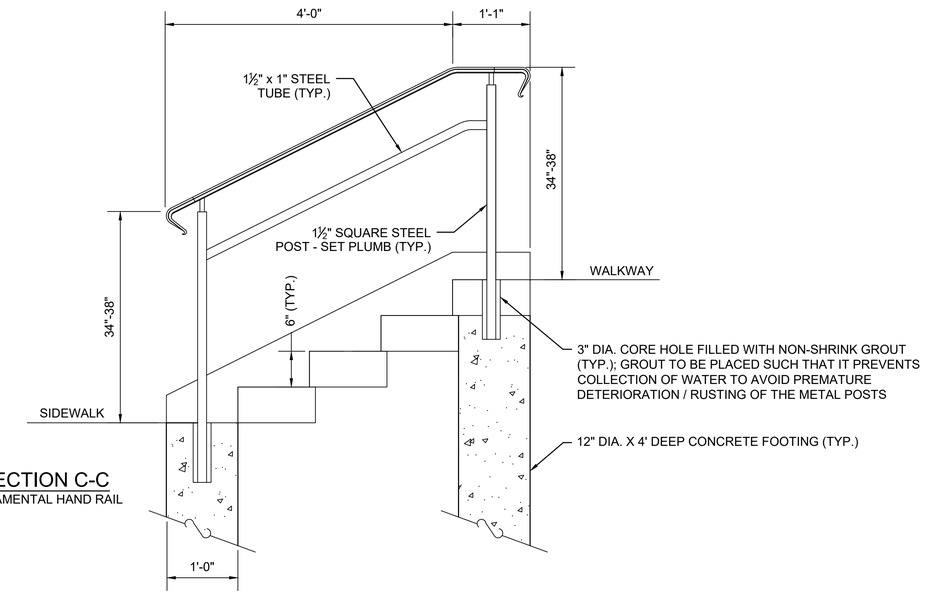
SECTION A-A
STAIRS



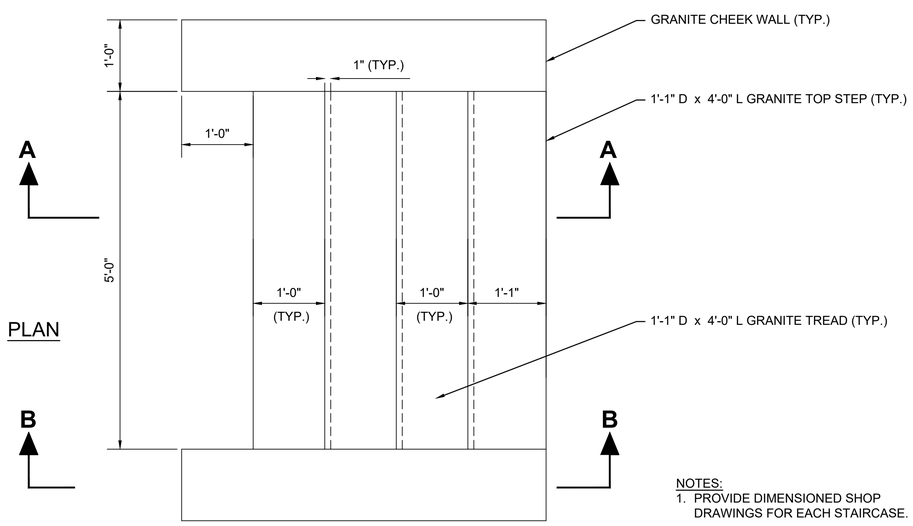
SECTION B-B
CHEEK WALL



DETAIL 1
NOT TO SCALE



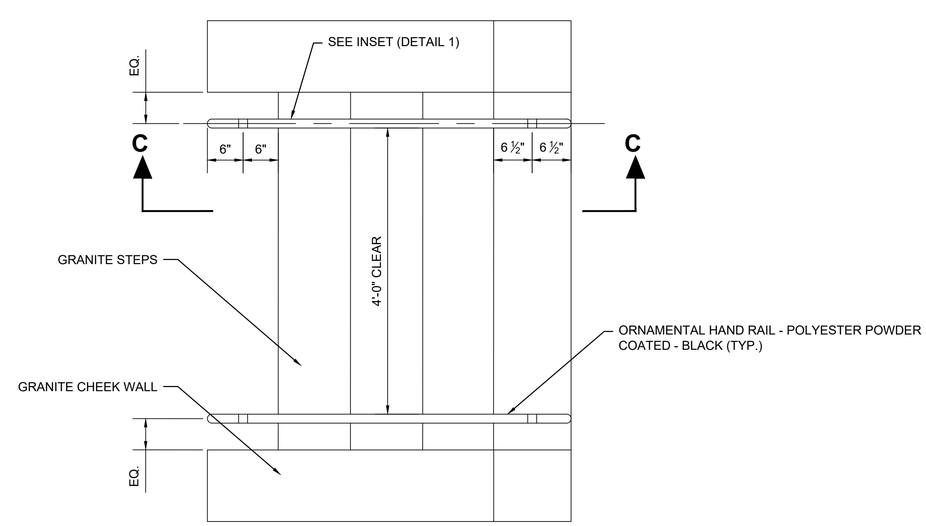
SECTION C-C
ORNAMENTAL HAND RAIL



PLAN

NOTES:
1. PROVIDE DIMENSIONED SHOP DRAWINGS FOR EACH STAIRCASE.

GRANITE STEPS
SCALE: 1"=1'-0"



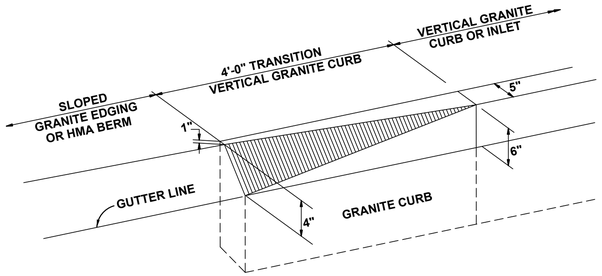
ORNAMENTAL HAND RAILS
SCALE: 1"=1'-0"

606024_HD_(CD).DWG Plotted on 26-Aug-2022 5:56 PM

TAUNTON
ROUTE 44 (DEAN STREET)

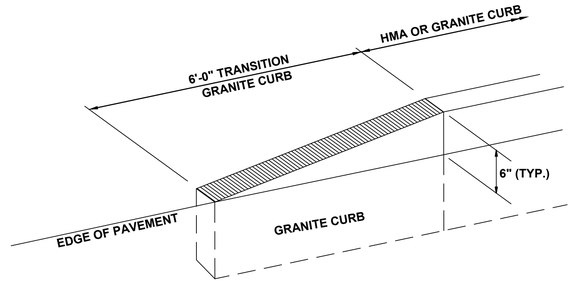
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	120	185
PROJECT FILE NO.	606024		

CONSTRUCTION DETAILS



GRANITE CURB TYPE VA4- SPLAYED END DETAIL

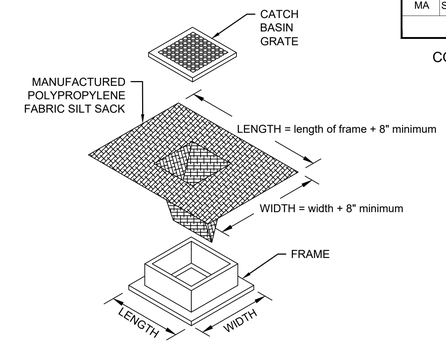
NOT TO SCALE



CURB TRANSITION DETAIL

NOT TO SCALE

TO BE USED FOR TRANSITION FROM HMA CURB OR GRANITE CURB TO EDGE OF PAVEMENT

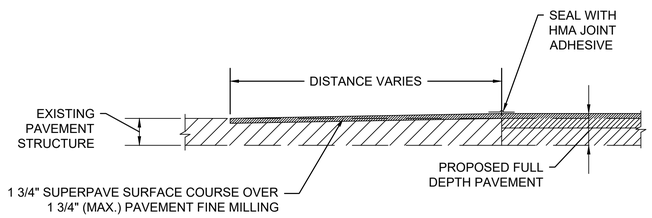


NOTES

1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
3. FOR USE ON ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND PROPOSED CATCH BASINS THAT ARE IN OPERATION DURING CONSTRUCTION.
4. INLET SEDIMENT CONTROL DEVICE SHALL BE FABRICATED WITH OVERFLOW SLOTS.

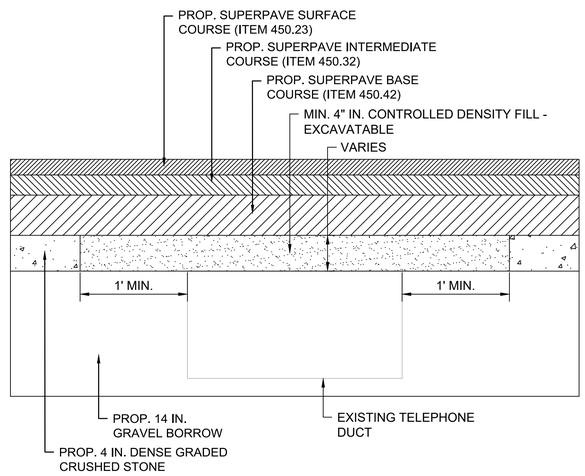
INLET SEDIMENT CONTROL DEVICE

NOT TO SCALE



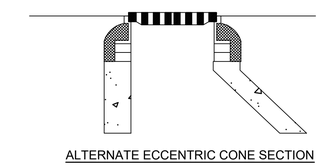
PAVEMENT TRANSITION DETAIL

NOT TO SCALE

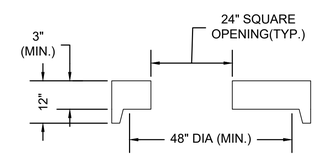


PAVEMENT DETAIL IN LOCATIONS WITH SHALLOW TELEPHONE DUCT

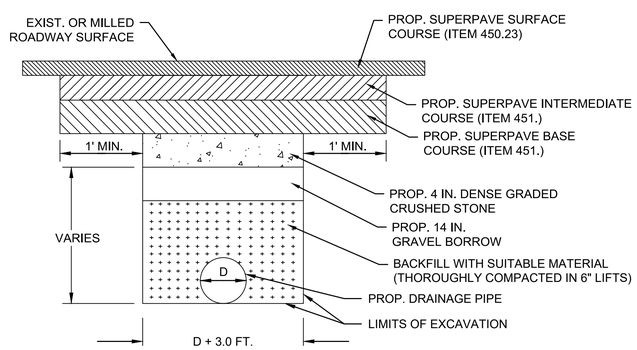
NOT TO SCALE



ALTERNATE ECCENTRIC CONE SECTION

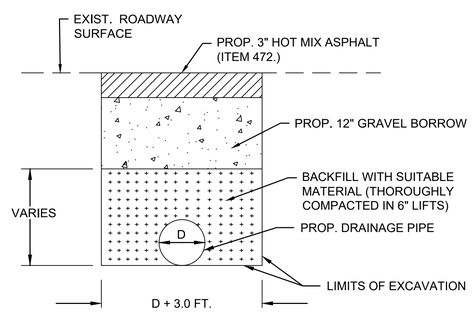


ALTERNATE TOP SLAB



PERMANENT PATCH

(IN AREAS OF MILLING AND PAVEMENT OVERLAY)



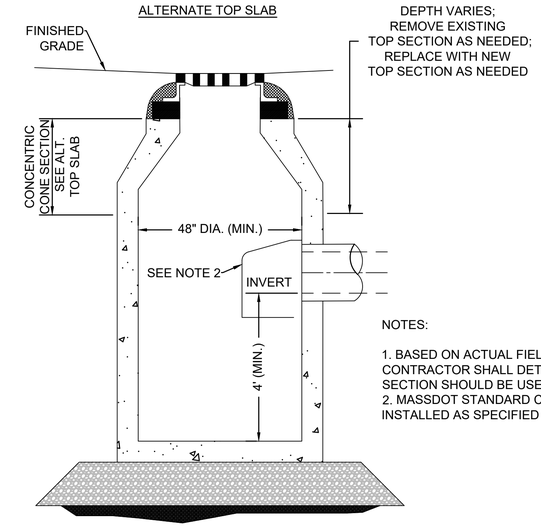
TEMPORARY PATCH

(IN AREAS OF FULL DEPTH PAVEMENT RECONSTRUCTION)

1. PLACE TACK COAT BETWEEN ALL HMA COURSES AND SAWCUT SURFACES PRIOR TO PLACING HMA. SEE PAVEMENT NOTES-FULL DEPTH HMA CONSTRUCTION FOR DEPTH OF HMA.
2. IF UNSUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY THE ENGINEER, ADDITIONAL BEDDING SHALL BE PAID FOR UNDER ITEM 156.
3. WHERE BACKFILLING MATERIAL CANNOT BE THOROUGHLY COMPACTED DUE TO OTHER UTILITY CONDUIT OR PIPES IN THE TRENCH, OR OTHER REASONS AS DETERMINED BY THE ENGINEER, CONTROLLED DENSITY FILL MAY BE ORDERED.

DRAINAGE TRENCH DETAIL

NOT TO SCALE



NOTES:

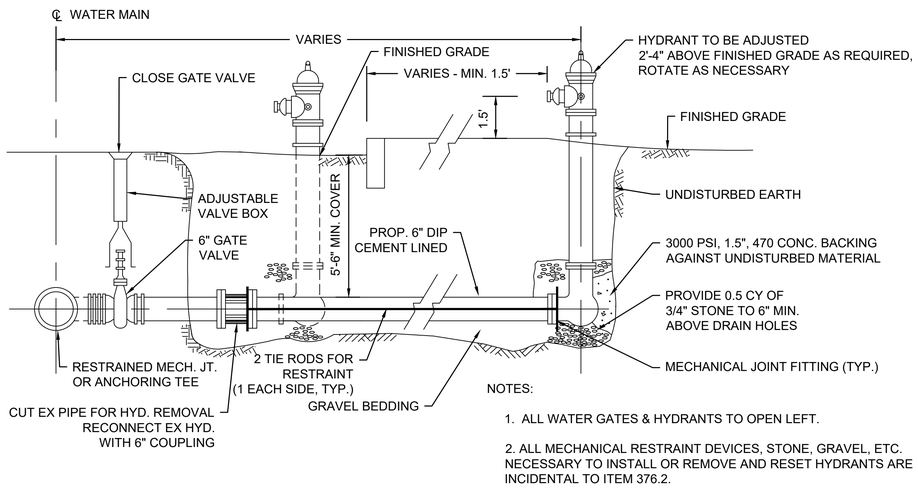
1. BASED ON ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL DETERMINE WHICH STYLE OF TOP SECTION SHOULD BE USED.
2. MASSDOT STANDARD CATCH BASIN HOOD TO BE INSTALLED AS SPECIFIED IN THE ORDER OF CONDITIONS.

CATCH BASIN

NOT TO SCALE

606024_HD_(CD).DWG Plotted on 26-Aug-2022 5:56 PM

606024_HD_(CD).DWG Plotted on 26-Aug-2022 5:56 PM



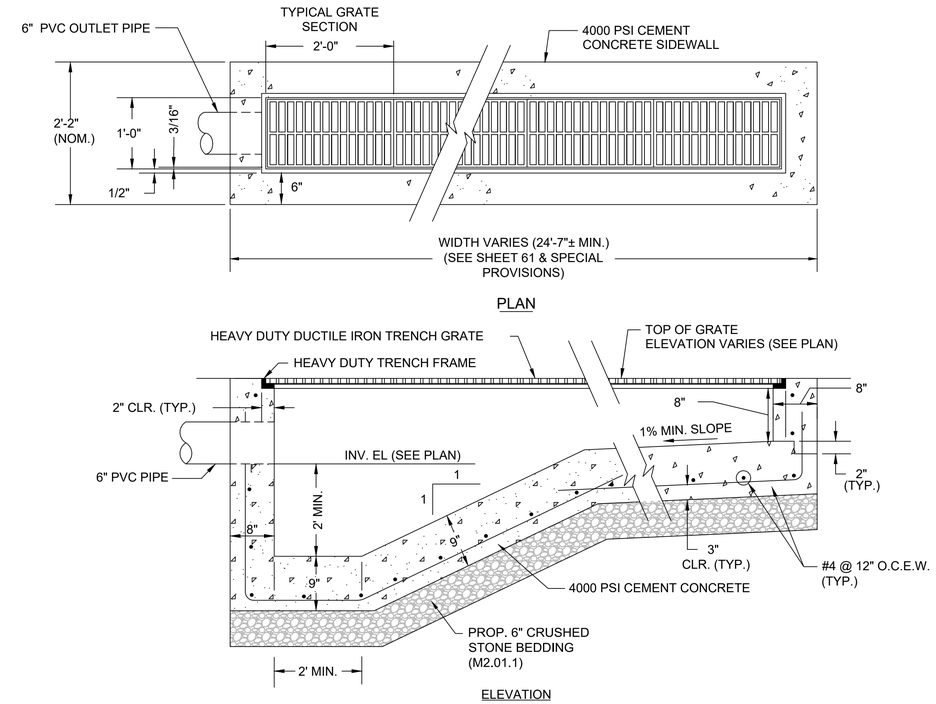
NOTES:

1. ALL WATER GATES & HYDRANTS TO OPEN LEFT.

2. ALL MECHANICAL RESTRAINT DEVICES, STONE, GRAVEL, ETC. NECESSARY TO INSTALL OR REMOVE AND RESET HYDRANTS ARE INCIDENTAL TO ITEM 376.2.

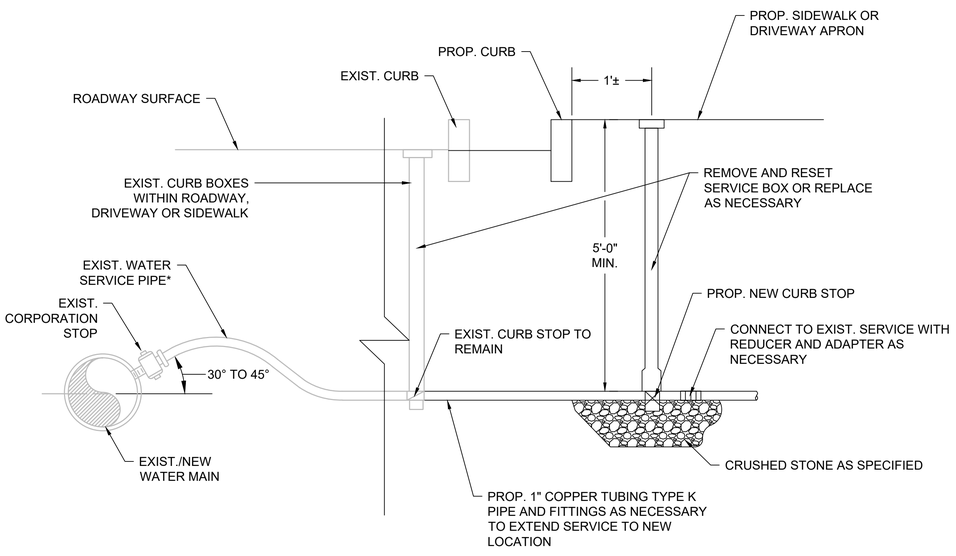
HYDRANT REMOVED AND RESET

NOT TO SCALE



TRENCH DRAIN

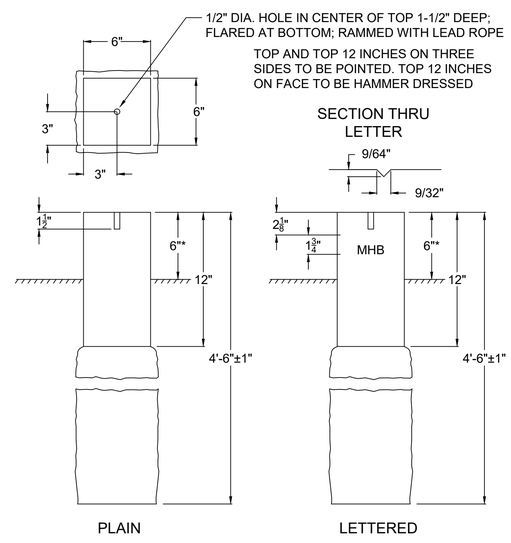
NOT TO SCALE



* IF EXISTING WATER SERVICE LINE IS NOT COPPER, CONTRACTOR SHALL INFORM TAUNTON WATER DEPARTMENT. NO CONNECTION SHALL BE MADE UNTIL THE TAUNTON WATER DEPARTMENT DETERMINES IF THE EXISTING LINE IS SUITABLE TO BE EXTENDED OR MUST BE REPLACED TO THE MAIN.

CURB STOP RELOCATION DETAIL

NOT TO SCALE



NOTES:

1. FOR DESCRIPTIONS, MATERIALS AND CONSTRUCTION METHODS, SEE STANDARD SPECIFICATIONS.

2. ALL BOUNDS UTILIZED TO MARK THE STATE HIGHWAY LAYOUT SHALL BE SET AT THE DIRECTION OF THE DISTRICT SURVEY ENGINEER. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL NOTIFY THE DISTRICT SURVEY ENGINEER TO SCHEDULE THE WORK.

* BOUNDS TO BE LOCATED IN LAWNS SHALL BE SET WITH TOP OF BOUND 2" BELOW GROUND LINE. BOUNDS LOCATED IN SIDEWALKS OR DRIVES SHALL BE SET WITH TOP OF BOUND FLUSH WITH THE SURFACE.

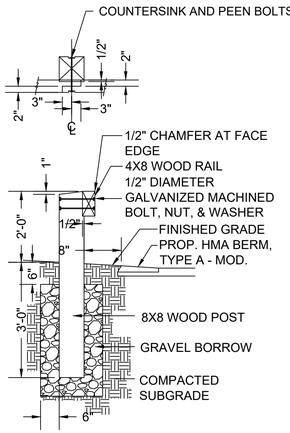
GRANITE BOUNDS

NOT TO SCALE

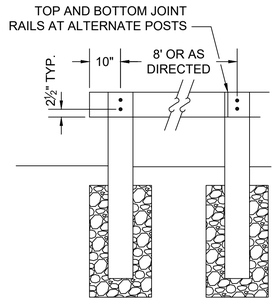
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	122	185
PROJECT FILE NO.	606024		

CONSTRUCTION DETAILS



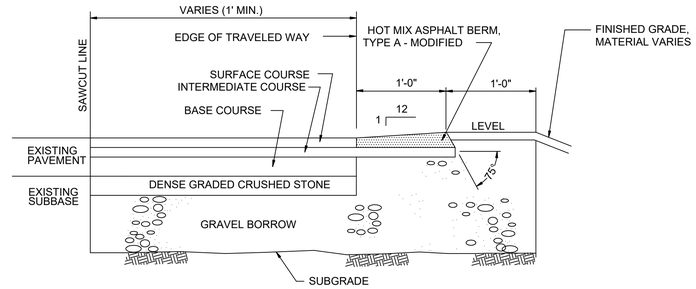
SECTION



FRONT ELEVATION

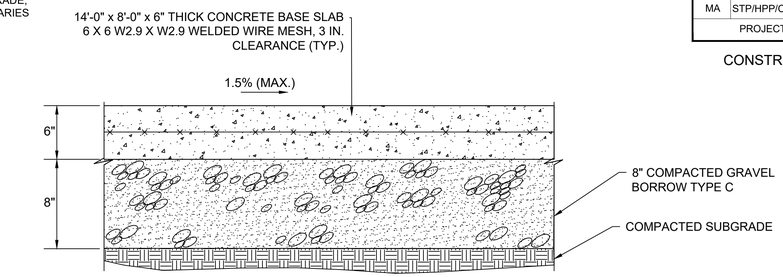
PROP. TIMBER GUARDRAIL

N.T.S.



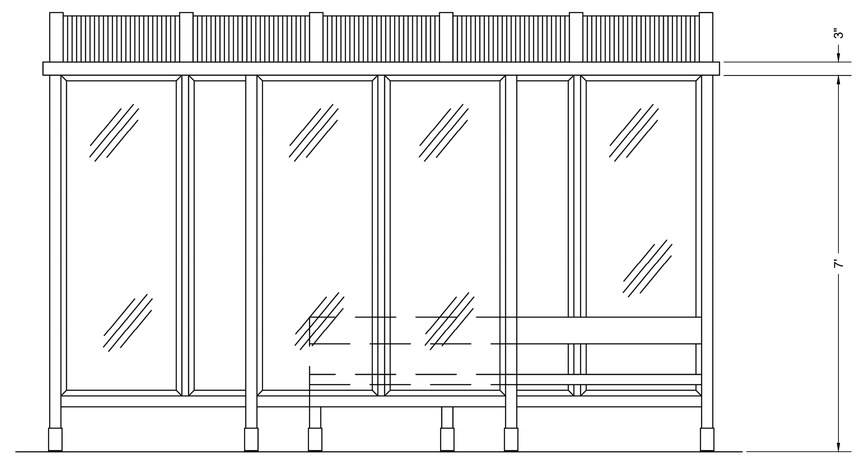
HOT MIX ASPHALT BERM, TYPE A - MODIFIED

NOT TO SCALE

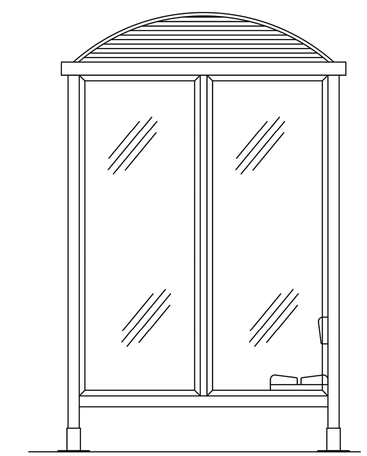


CEMENT CONCRETE PAD FOR BUS SHELTERS

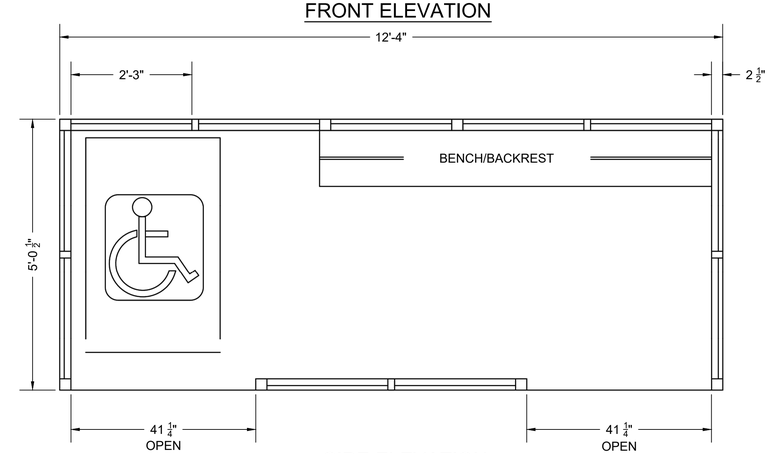
NOT TO SCALE



FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION

NOTES

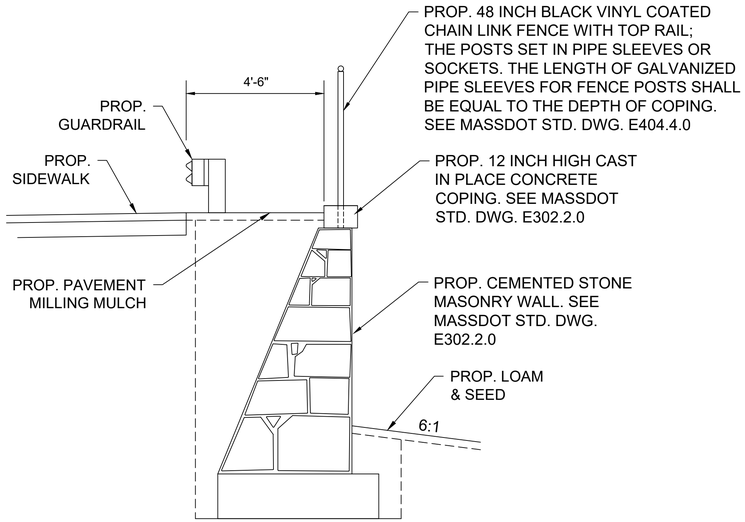
1. 12'-4" x 5'-0" BARREL ROOF PEDESTRIAN BUS SHELTER WITH LEFT & RIGHT FRONT OPENINGS.
2. PROVIDE 14'-0" x 8'-0" x 6" THICK REINFORCED CEM. CONC. PAD FOR EACH PEDESTRIAN BUS SHELTER.

PEDESTRIAN BUS SHELTER (SUPPLIED B.O.)

NOT TO SCALE

606024_HD_(CD).DWG Plotted on 26-Aug-2022 5:56 PM

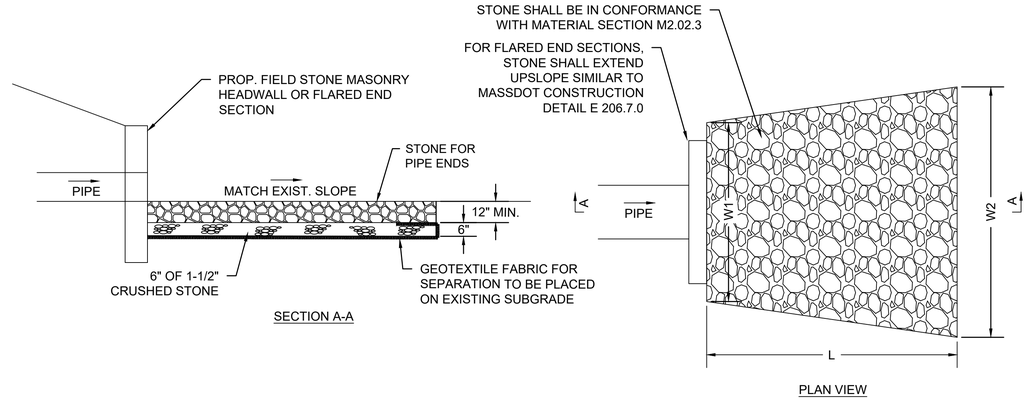
606024_HD_(CD).DWG Plotted on 26-Aug-2022 5:56 PM



CHAIN LINK FENCE ATTACHMENT TO RETAINING WALL

N.T.S.

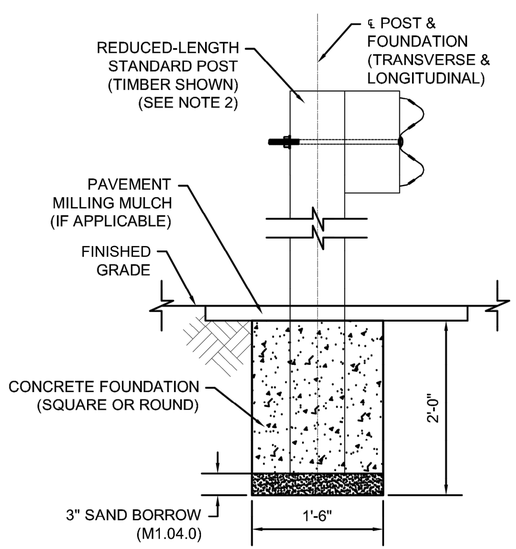
STA. 116+88± RT TO STA. 118+50± RT



STONE FOR PIPE ENDS SIZE TABLE			
	OUTFALL		
	L	W1	W2
FES-301	4.00'	3.00'	5.67'
FES-302	4.00'	3.00'	5.67'
FES-304	4.00'	3.00'	5.67'
OUTLET STA. 106+92 RT	4.00'	3.00'	5.67'
FES-306	6.00'	4.50'	8.50'
FES-305	4.00'	3.00'	5.67'
OUTLET STA. 124+98 RT	6.00'	4.50'	8.50'
OUTLET STA. 125+80 RT	4.00'	3.00'	5.67'
OUTLET STA. 129+94 RT	8.00'	6.00'	11.33'

STONE FOR PIPE ENDS

NOT TO SCALE

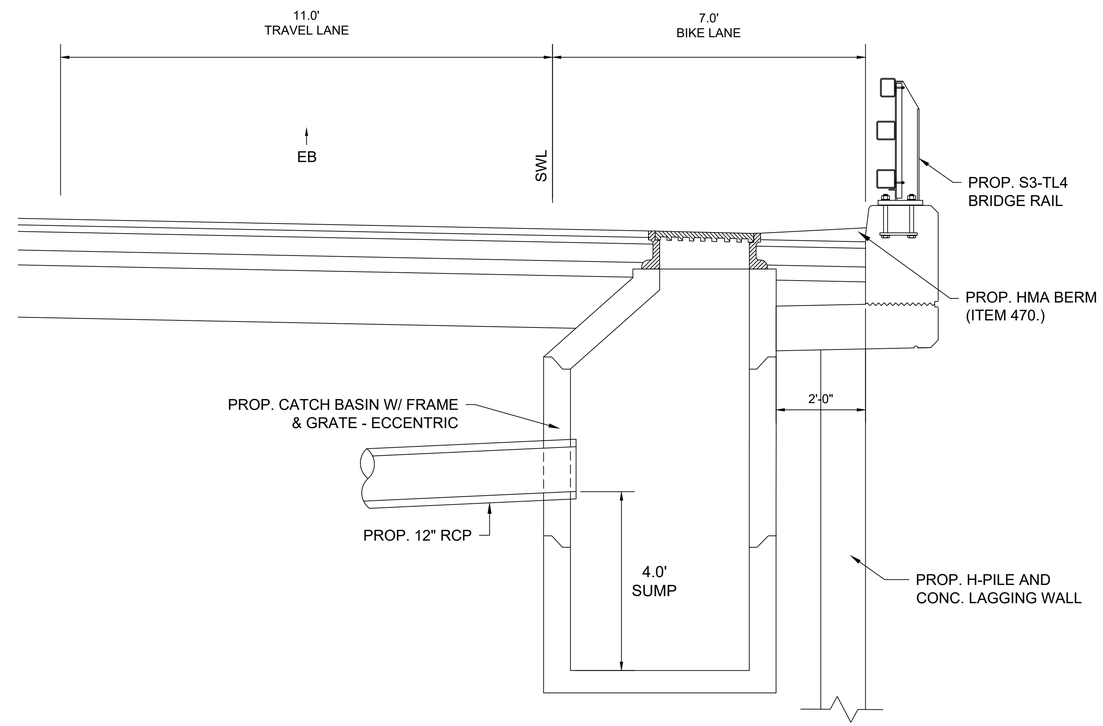


SECTION

NOTES:

1. WHEN THE CONSTRUCTION OF GUARDRAIL AT THE REQUIRED POST SPACING RESULTS IN POST(S) CONFLICTING WITH UNDERGROUND UTILITIES OR OTHER UNDERGROUND OBSTRUCTIONS, AN ENCASED POST MAY BE USED WHERE A 2'-0" DEPTH WILL AVOID THE CONFLICT. INSTALL WHERE SHOWN IN THE PLANS AND/OR AS-NEEDED.
2. USE A STANDARD POST WITH REDUCED LENGTH SUCH THAT THE PANEL HEIGHT IS MAINTAINED WHILE THE POST BOTTOM TERMINATES AT THE BOTTOM OF THE CONCRETE FOUNDATION AT THE TOP OF THE 3" (MIN) SAND BORROW.
3. CONCRETE FOUNDATION SHALL BE 3500 PSI, CEMENT CONCRETE (M4.02.00). AFTER CASTING THE CONCRETE, ENSURE THE SURROUNDING SOIL MATERIAL IS COMPLETELY BACKFILLED AND TAMPED TO PROVIDE FULL PASSIVE RESISTANCE.
4. ENCASED POSTS ARE NOT PERMITTED FOR CONSECUTIVE POSTS UNLESS OTHERWISE SHOWN IN THE PLANS.

ENCASED POST FOR SHALLOW MOUNT



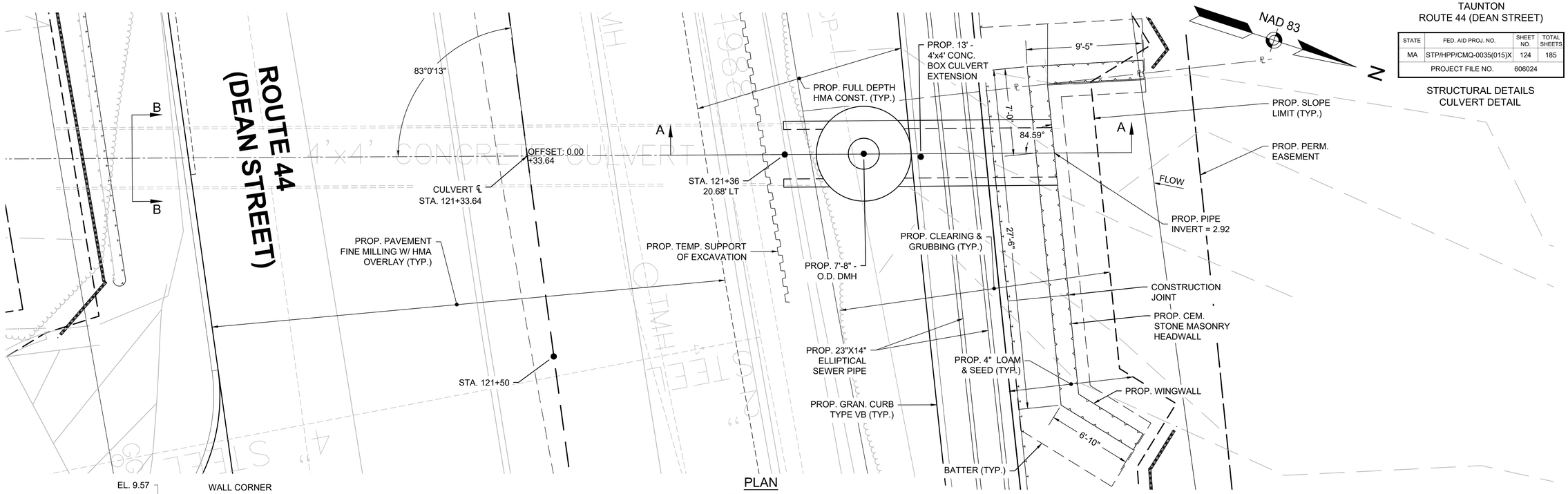
CATCH BASIN AT RETAINING WALL

N.T.S.

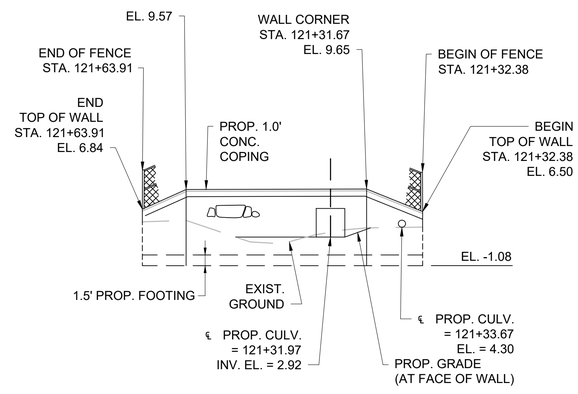
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	124	185
PROJECT FILE NO.	606024		

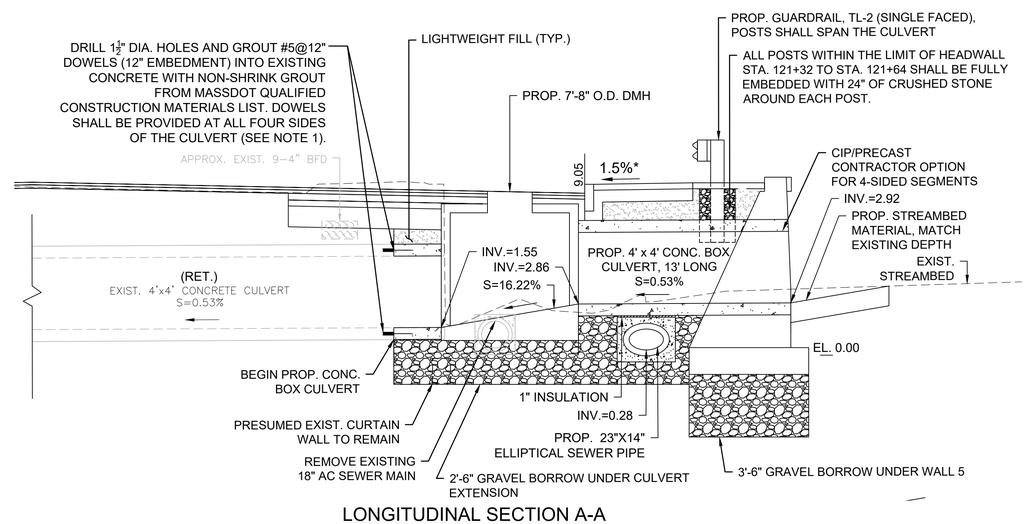
STRUCTURAL DETAILS
CULVERT DETAIL



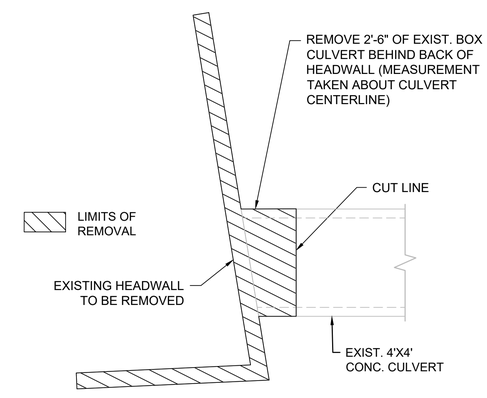
PLAN
SCALE: 1/4" = 1'-0"



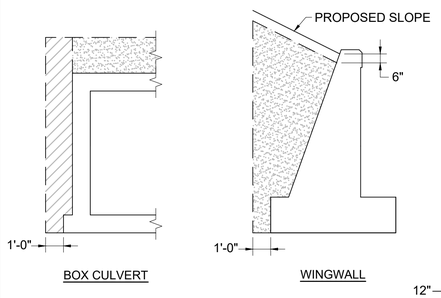
DEVELOPED ELEVATION
SCALE: 1:10



LONGITUDINAL SECTION A-A
STA. 121+35±
SCALE: 1/4" = 1'-0"

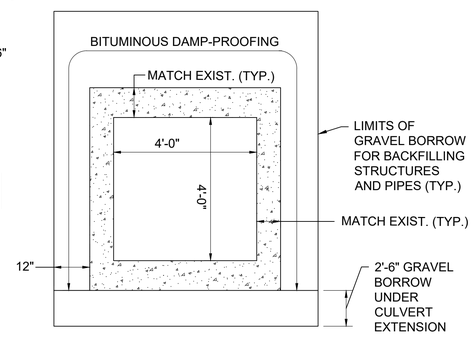


EXISTING CULVERT REMOVAL DETAIL
NOT TO SCALE



= LIMITS OF LIGHTWEIGHT FILL
= LIMITS OF GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES

LIMITS OF FILL
SCALE: 1/4" = 1'-0"



CONCRETE BOX CULVERT EXTENSION
TYPICAL SECTION
SCALE: 1/2" = 1'-0"

PROP. CONC. BOX CULVERT NOTES:

1. THE PROPOSED CULVERT SHALL BE CONTRACTOR DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS.

2. THE CULVERT END HEADWALL AND WINGWALLS SHALL BE IN ACCORDANCE WITH DRAWING E 302.2.0 OF THE MASSDOT CONSTRUCTION STANDARDS AND SHALL BE CEMENTED STONE MASONRY.

3. THE PROPOSED CULVERT EXTENSION CENTERLINE SHALL ALIGN WITH THE EXISTING CULVERT CENTERLINE.

4. AN EXISTING SEWER PIPE INTERSECTS THE PROPOSED BOX CULVERT EXTENSION. THE CONTRACTOR SHALL LOCATE THE EXISTING SEWER PIPE CONCRETE ENCASEMENT PRIOR TO THE SUBMISSION OF THE CULVERT SHOP DRAWINGS.

5. THE CULVERT EXTENSION MAY BE A CAST-IN-PLACE THREE SIDED CULVERT AT THE SEWER LINE. THE CULVERT BEYOND THE SEWER LINE MAY BE PRECAST OR CAST-IN-PLACE.

6. SUPPORT ALL UTILITIES IN PLACE, EXCEPT WHERE NOTED. INCLUDE UTILITY SUPPORT IN COST OF THE CULVERT.

7. REFER TO SPECIAL PROVISIONS FOR PRECAST CULVERT JOINT AND JOINT SEALING REQUIREMENTS.

8. CONTRACTOR SHALL VERIFY CULVERT INVERT ELEVATION.

9. PROPOSED CULVERT DIMENSIONS SHALL MATCH EXISTING CULVERT DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS.

10. APPLY BITUMINOUS DAMP-PROOFING TO TOP AND SIDES OF CULVERT EXTENSION AND 2 FEET OF EXISTING CULVERT FROM CUT LINE.

EXISTING BOX CULVERT REMOVAL NOTES:

1. REMOVE EXISTING HEADWALL AND BOX CULVERT AS SHOWN ON THE PLANS.

2. EXIST. REINFORCING SHALL BE RETAINED IN REMOVAL AREA WITHIN 10 INCHES OF CUT LINE. WHERE REINFORCING IS DAMAGED, REPLACEMENT REINFORCING SHALL BE DRILLED AND GROUTED INTO EXIST. CULVERT.

3. EXIST. REINFORCING AND/OR DOWELS SHALL BE CUT AND LOCATED TO PROVIDE 2" CLEAR COVER OF CONCRETE.

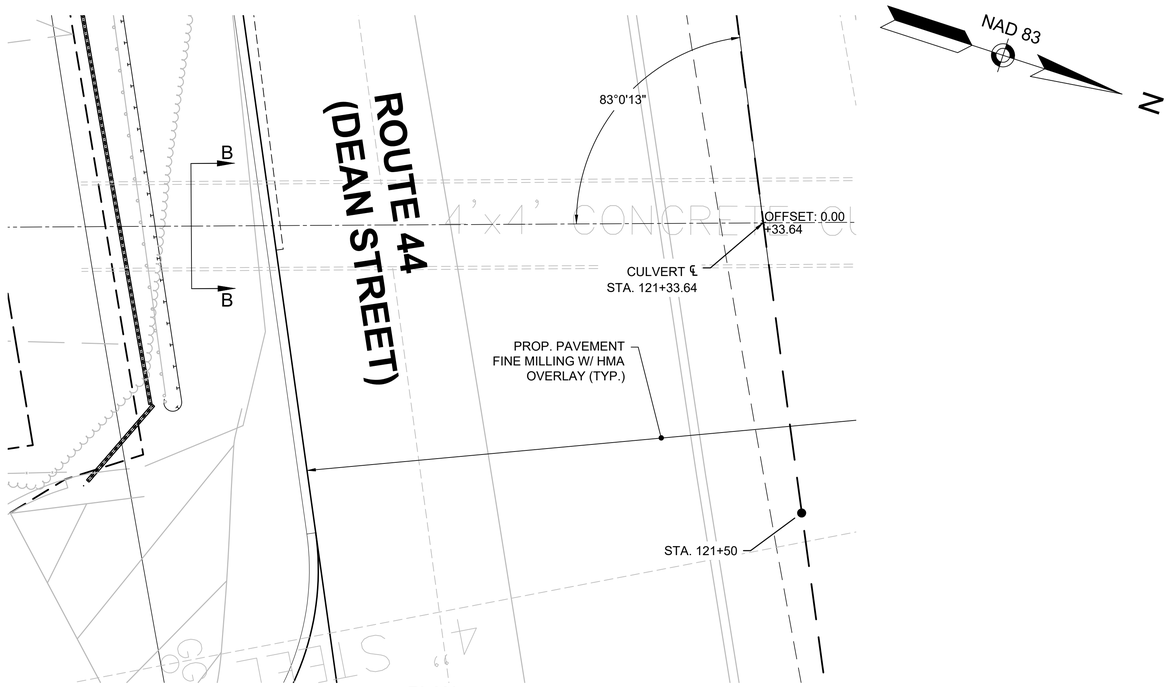
4. EXISTING FOOTINGS MAY BE LEFT IN PLACE.

606024_HD_(CULV DET).DWG Plotted on 26-Aug-2022 5:57 PM

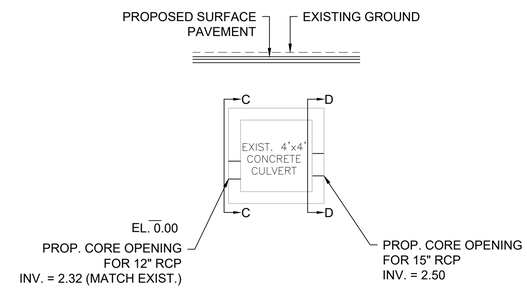
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	125	185
PROJECT FILE NO.	606024		

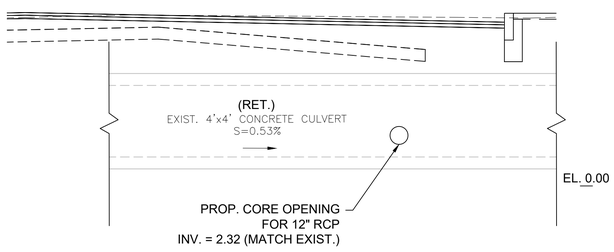
STRUCTURAL DETAILS
CULVERT DETAIL



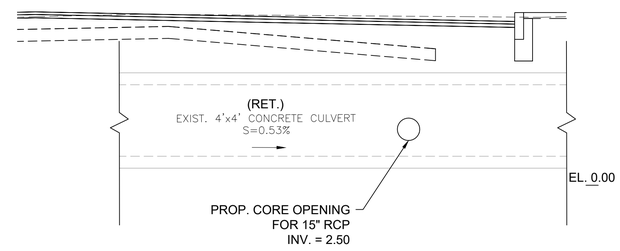
PLAN
SCALE: 1/4" = 1'



LONGITUDINAL SECTION B-B
(SOUTH ELEVATION)
STA. 121+31±
SCALE: 1/4" = 1'



LONGITUDINAL SECTION C-C
(EAST ELEVATION)
STA. 121+31±
SCALE: 1/4" = 1'



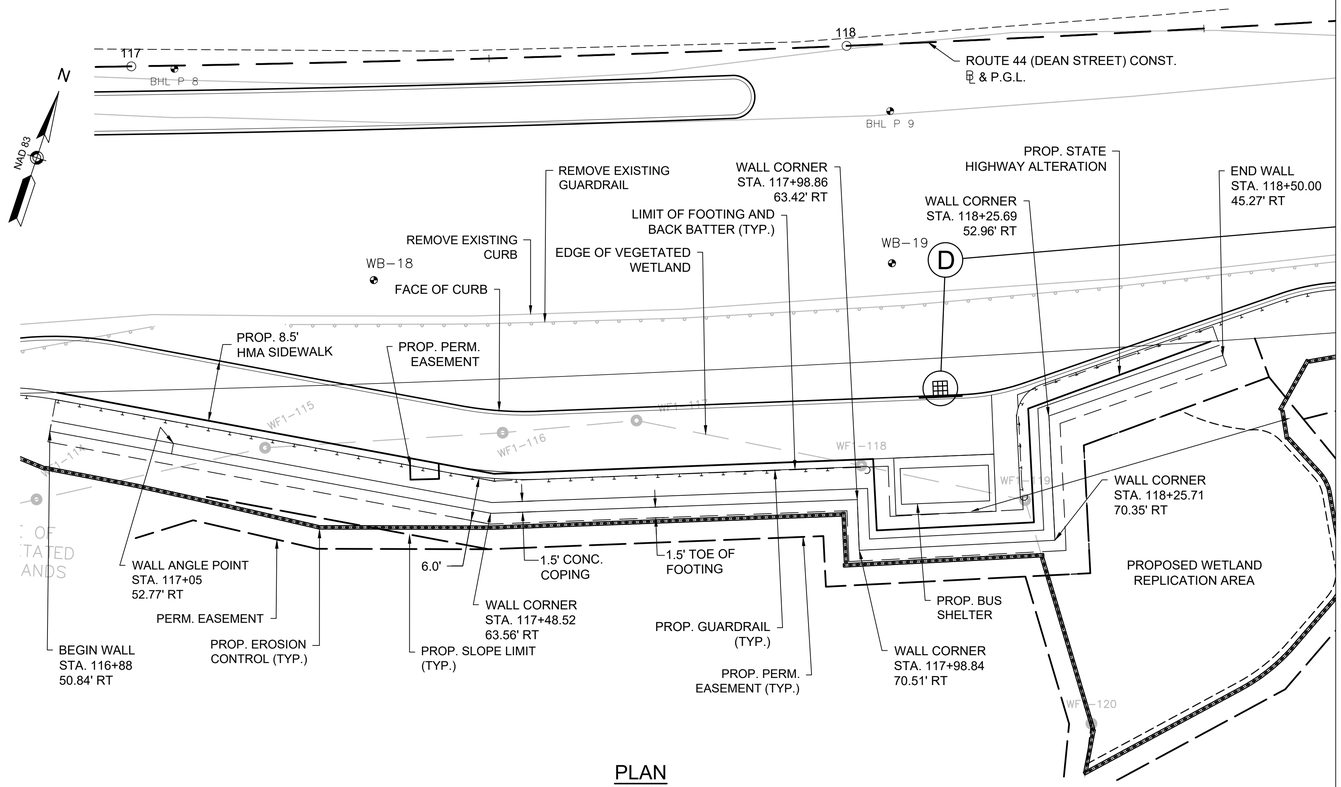
LONGITUDINAL SECTION D-D
(WEST ELEVATION)
STA. 121+31±
SCALE: 1/4" = 1'

606024_HD_(CULV DET).DWG Plotted on 26-Aug-2022 5:58 PM

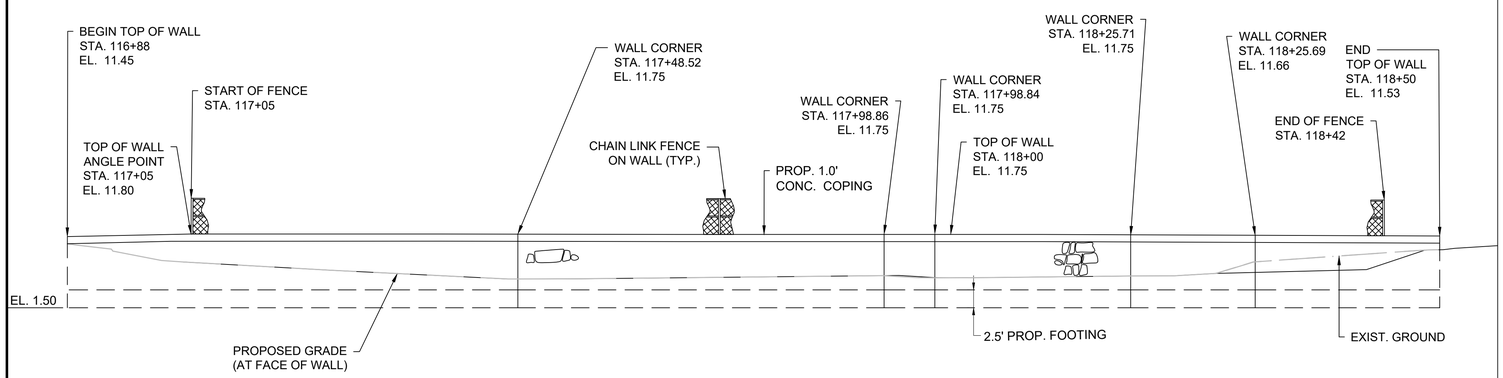
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	126	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
RETAINING WALL DETAILS



PLAN
SCALE: 1:10

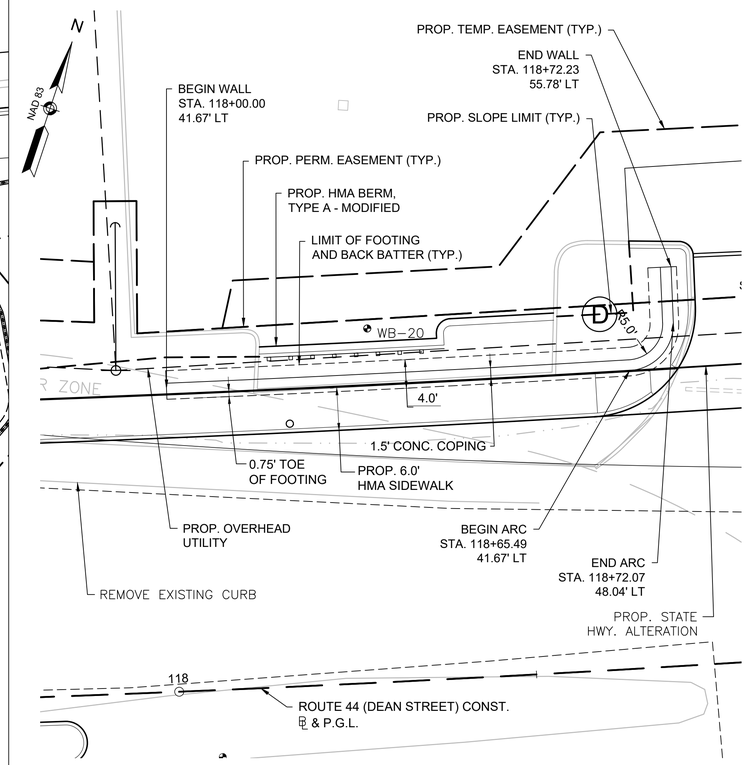


DEVELOPED ELEVATION
SCALE: 1:10

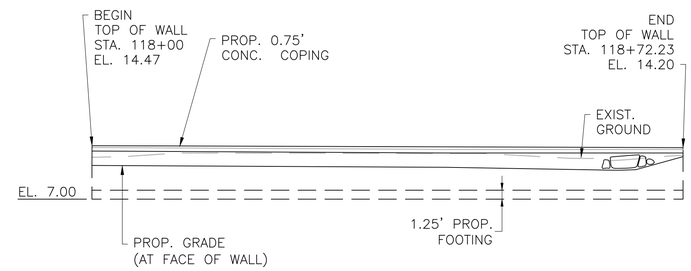
WALL 1 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE 3.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING. IN LOCATIONS WHERE THE WATER TABLE IS ABOVE EXCAVATION LIMITS, PLACE CRUSHED STONE FOR BRIDGE FOUNDATIONS.
3. FENCE NOT SHOWN IN PLAN FOR CLARITY. SEE WALL SHEET 4 OF 7 FOR PLACEMENT AND ATTACHMENT TO WALL DETAILS.

WALL 1 - STONE MASONRY RETAINING WALL



PLAN
SCALE: 1:10



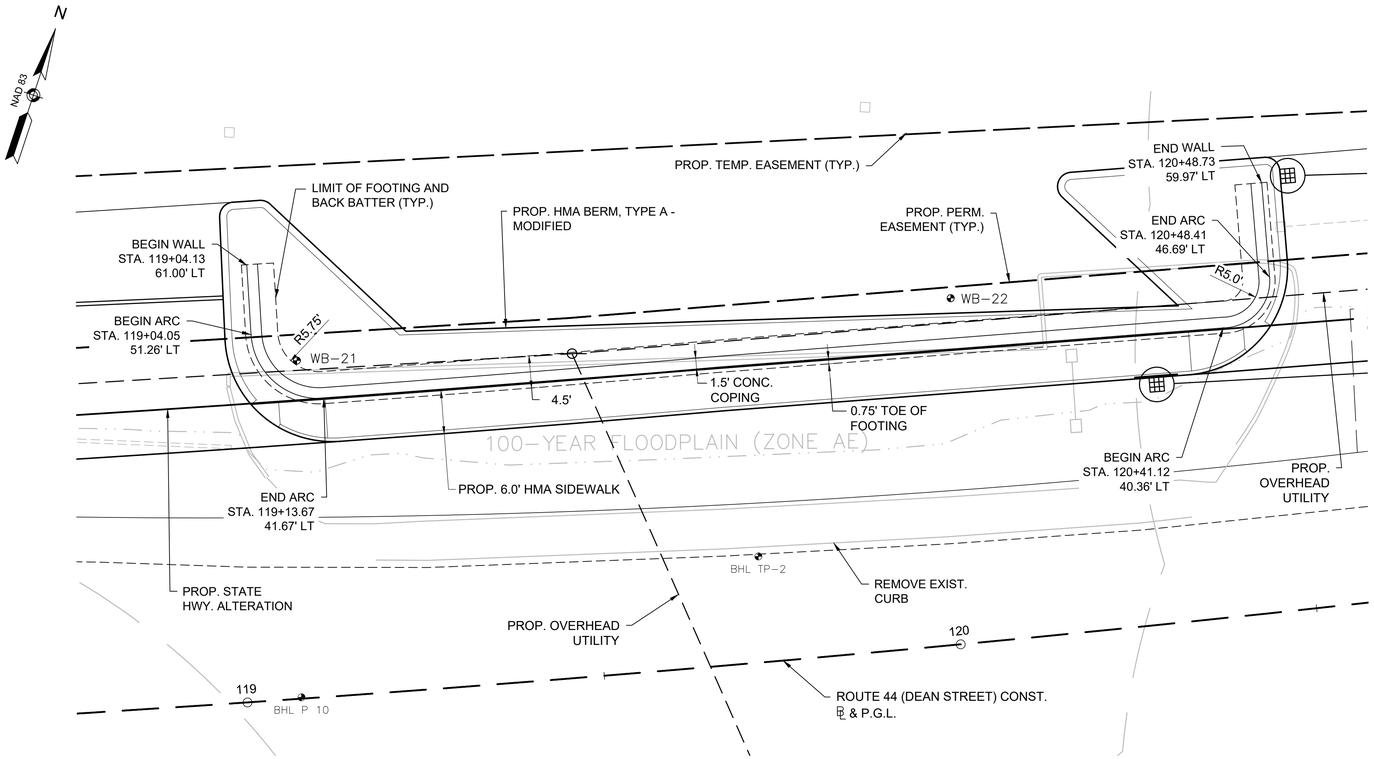
DEVELOPED ELEVATION
SCALE: 1:10

WALL 2 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE 0.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING.

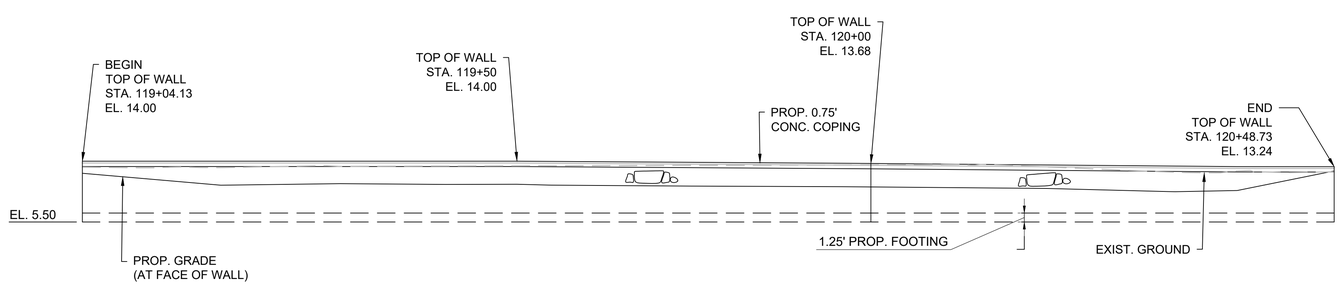
WALL 2 - STONE MASONRY RETAINING WALL

606024_BR_(LOW WALLS).DWG Plotted on 26-Aug-2022 5:58 PM



PLAN

SCALE: 1:10



DEVELOPED ELEVATION

SCALE: 1:10

WALL 3 NOTES:

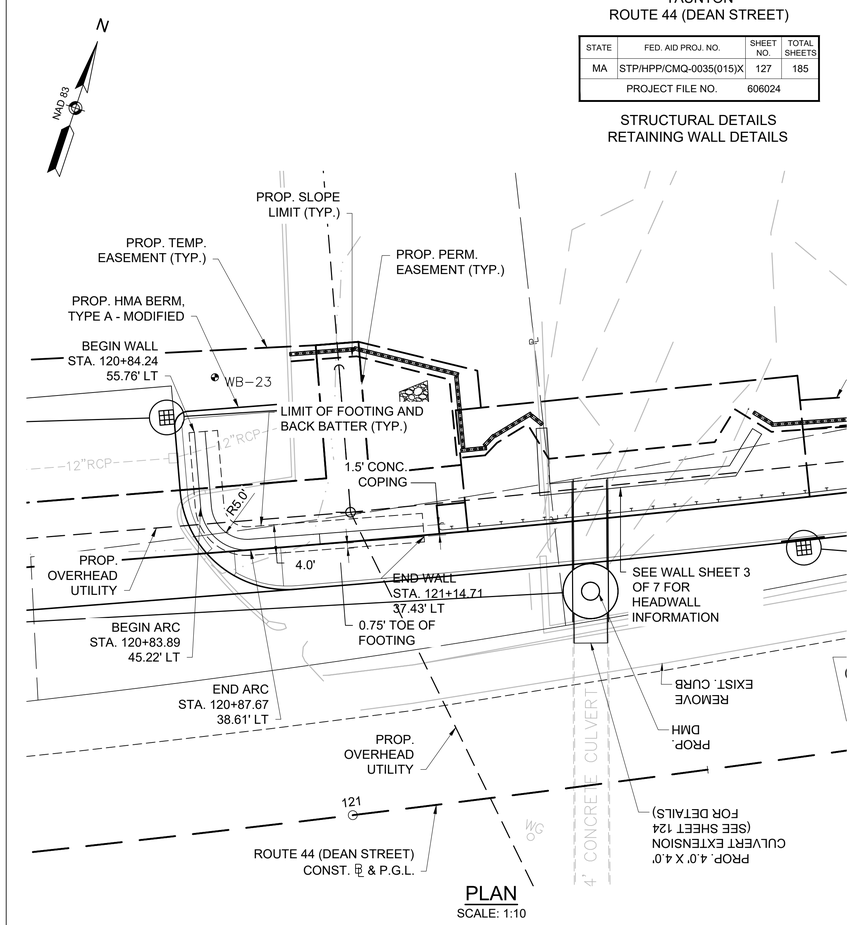
1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE 0.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING. IN LOCATIONS WHERE THE WATER TABLE IS ABOVE EXCAVATION LIMITS, PLACE CRUSHED STONE FOR BRIDGE FOUNDATIONS.

WALL 3 - STONE MASONRY RETAINING WALL

TAUNTON
ROUTE 44 (DEAN STREET)

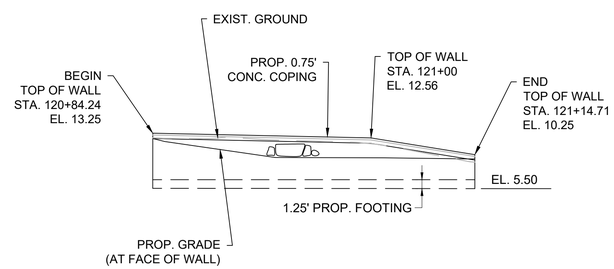
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	127	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
RETAINING WALL DETAILS



PLAN

SCALE: 1:10



DEVELOPED ELEVATION

SCALE: 1:10

WALL 4 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE 0.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING.

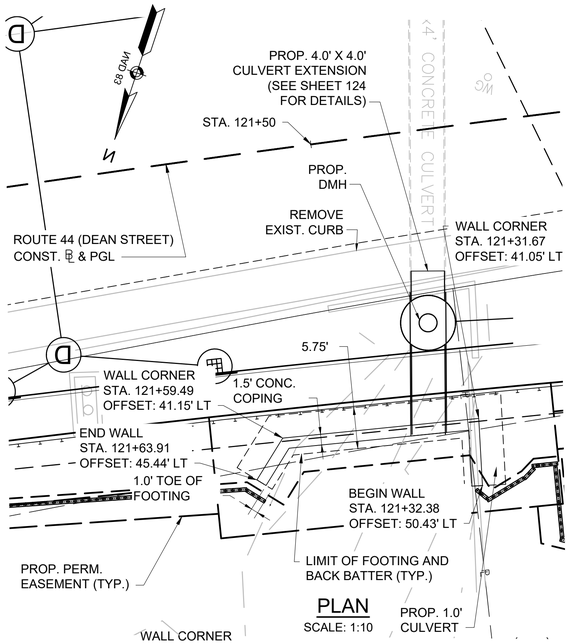
WALL 4 - STONE MASONRY RETAINING WALL

606024_BR_(LOW WALLS).DWG Plotted on 26-Aug-2022 5:58 PM

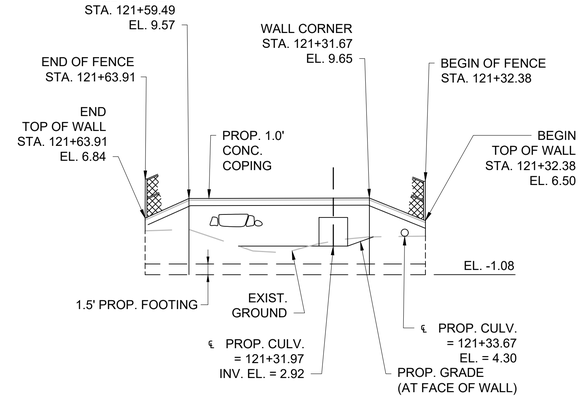
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	128	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
RETAINING WALL DETAILS



PLAN
SCALE: 1:10

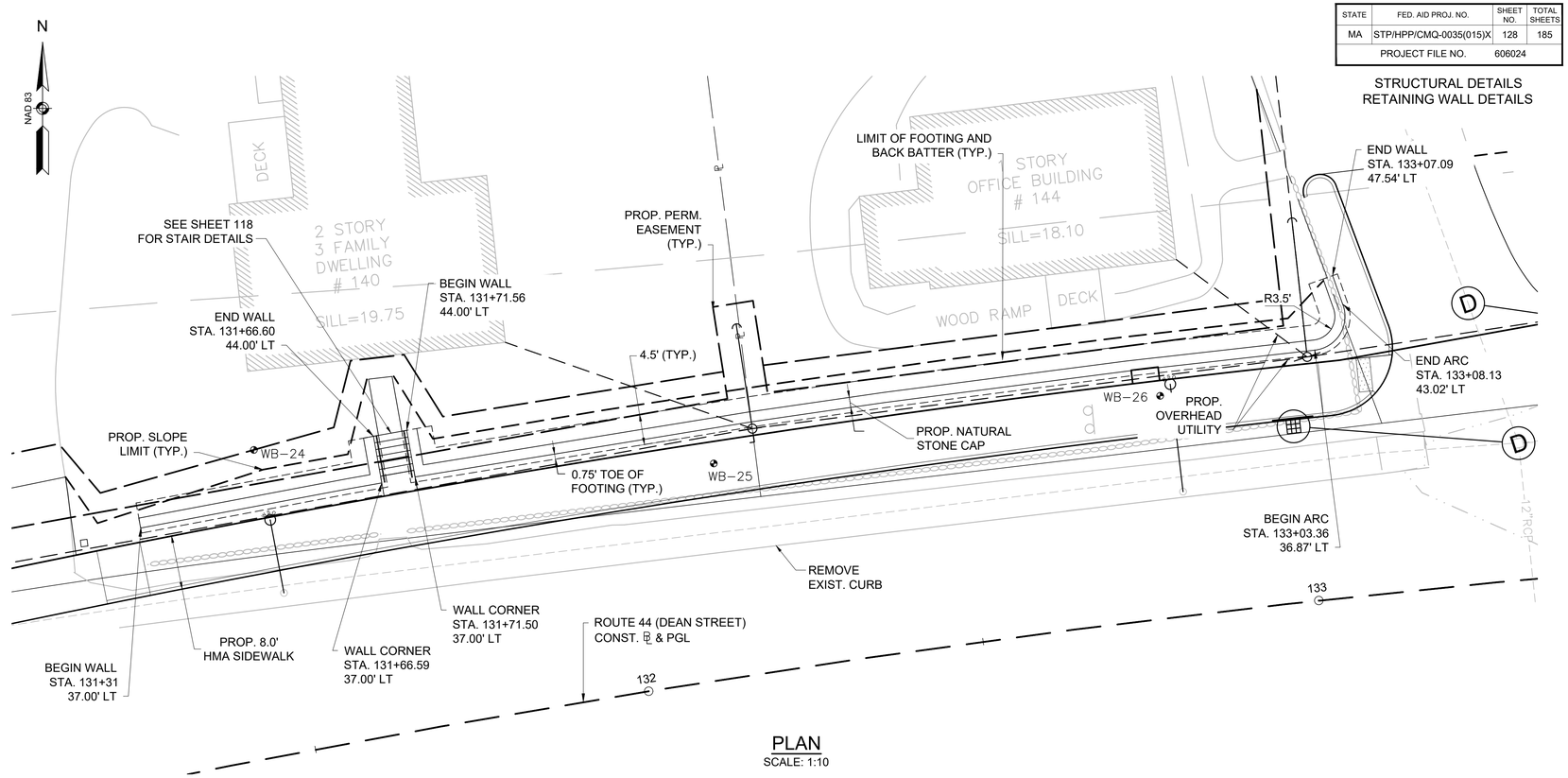


DEVELOPED ELEVATION
SCALE: 1:10

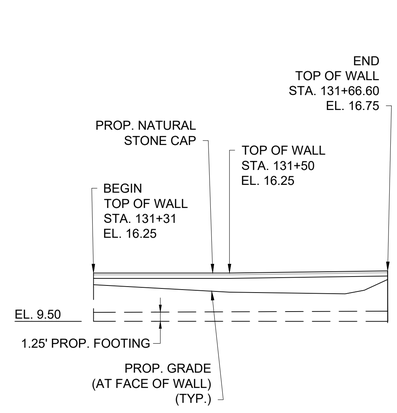
WALL 5 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE LIGHTWEIGHT FILL OVER THE STRUCTURE BATTER. SEE CROSS SECTIONS ON WALL SHEET 4 OF 7 FOR PAY LIMITS.
3. PROVIDE 3.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING. IN LOCATIONS WHERE THE WATER TABLE IS ABOVE EXCAVATION LIMITS, PLACE CRUSHED STONE FOR BRIDGE FOUNDATIONS.
4. SEE SHEET 124 FOR ADDITIONAL CULVERT EXTENSION, HEADWALL, AND WINGWALL INFORMATION.
5. FENCE NOT SHOWN IN PLAN FOR CLARITY. SEE SHEET 4 OF 7 FOR PLACEMENT AND ATTACHMENT TO WALL DETAILS.

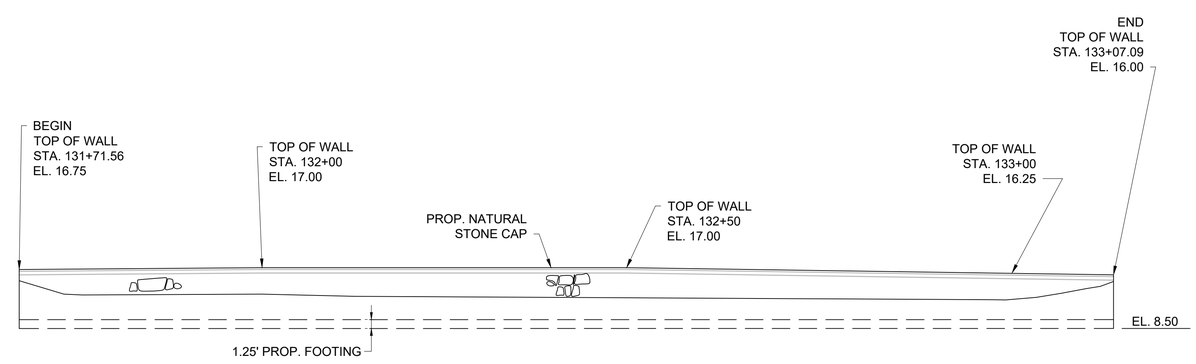
WALL 5 - STONE MASONRY RETAINING WALL WITH LIGHTWEIGHT FILL



PLAN
SCALE: 1:10



WALL 7



WALL 8

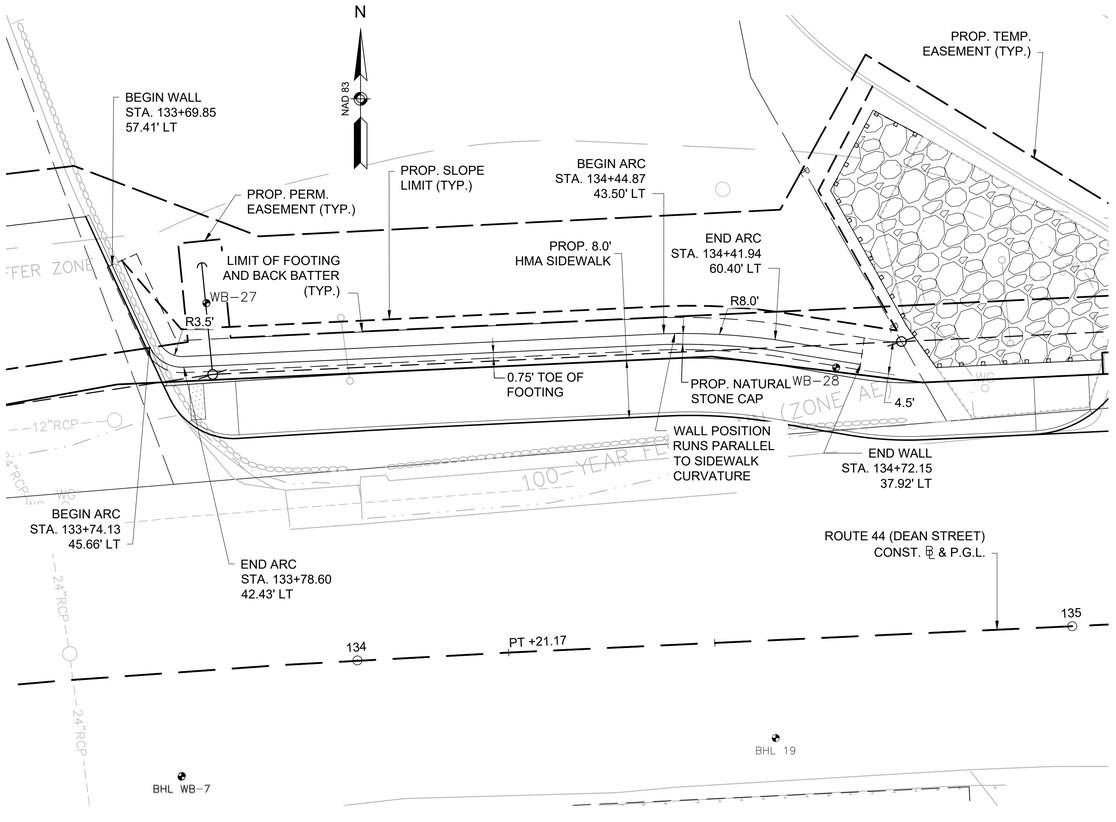
WALLS 7 & 8 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE WALL SHEET 4 OF 7.
2. PROVIDE 1.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING. IN LOCATIONS WHERE THE WATER TABLE IS ABOVE EXCAVATION LIMITS, PLACE CRUSHED STONE FOR BRIDGE FOUNDATIONS.

DEVELOPED ELEVATION
SCALE: 1:10

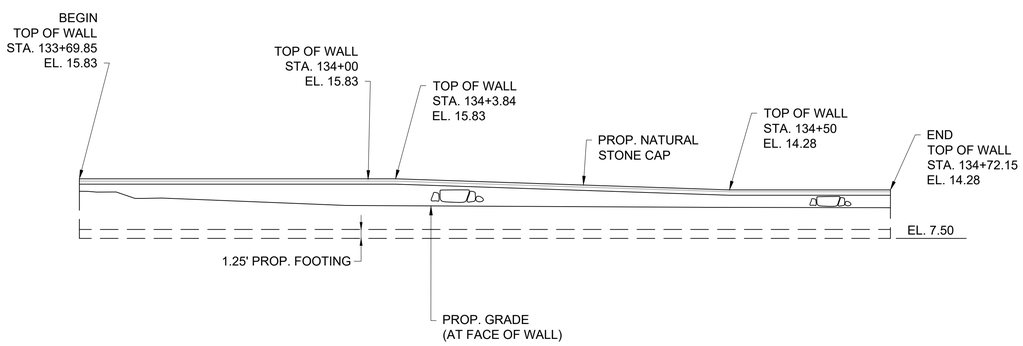
WALLS 7 & 8 - STONE MASONRY RETAINING WALL REMOVED AND REBUILT

606024_BR_(LOW WALLS).DWG Plotted on 26-Aug-2022 5:58 PM



PLAN

SCALE: 1:10



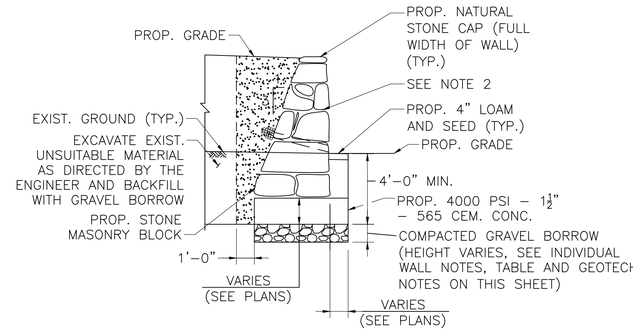
WALL 9 NOTES:

1. FOR STONE MASONRY RETAINING WALL CROSS SECTIONS, GENERAL WALL NOTES AND GEOTECH INFO., SEE THIS SHEET.
2. PROVIDE 1.5 FEET (MIN.) OF COMPACTED GRAVEL BORROW BELOW THE FOOTING. IN LOCATIONS WHERE THE WATER TABLE IS ABOVE EXCAVATION LIMITS, PLACE CRUSHED STONE FOR BRIDGE FOUNDATIONS.

DEVELOPED ELEVATION

SCALE: 1:10

WALL 9 - STONE MASONRY RETAINING WALL REMOVED AND REBUILT



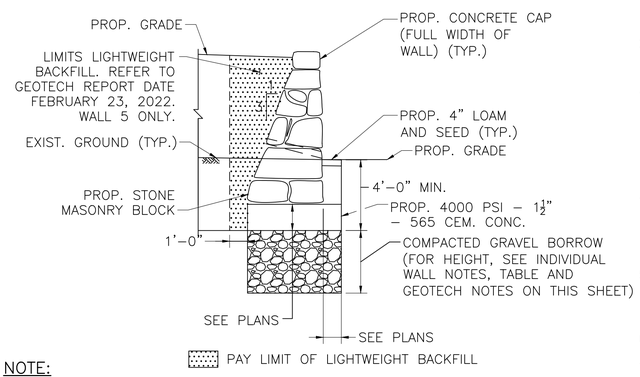
NOTES:

1. REFER TO STONE MASONRY RET. WALL DETAIL NOTES, EXCEPT FOR NOTES 3 & 4
2. MORTAR CENTER OF WALL AND HOLD BACK 2" MIN. FROM FACE OF WALL. NO MORTAR TO SHOW AT EXPOSED FACES, DEEP RAKE JOINTS.
3. PROP. NATURAL STONE CAPS SHALL HAVE A HEIGHT OF 4"

STONE MASONRY RET. WALL REMOVED AND REBUILT DETAIL

WALLS 7, 8 & 9

SCALE: 1/4" = 1'-0"



NOTE:

1. REFER TO STONE MASONRY RET. WALL DETAIL NOTES.

STONE MASONRY RET. WALL WITH LIGHTWEIGHT FILL

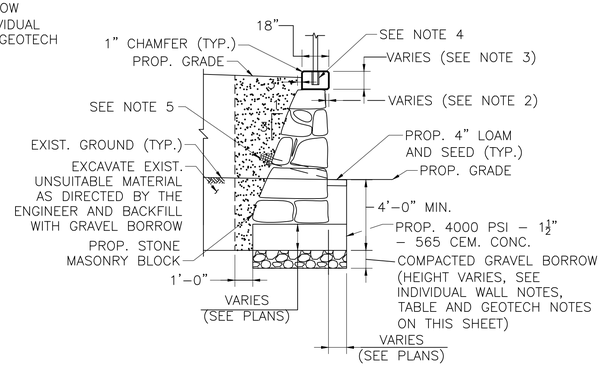
WALL 5

SCALE: 1/4" = 1'-0"

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	129	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
RETAINING WALL DETAILS



NOTES:

1. GEOMETRY SHALL ALSO BE USED FOR SPECIFIED WALLS AS SHOWN IN THE PLANS.
2. COPING OVERHANG SHALL BE 2" WHERE WALL IS LESS THAN 10' IN HEIGHT AND 3" WHERE GREATER.
3. SEE WALL PLANS FOR COPING HEIGHTS DETAILS. THE WALLS BETWEEN STA. 116+88.00 TO 118+50.00 AND STA. 121+32.38 TO 121+63.91 SHALL HAVE A 12" COPING AND SHALL BE CAST-IN-PLACE CONCRETE. THE REMAINING WALLS SHALL HAVE A 9" COPING AND MAY BE PRECAST OR CAST-IN-PLACE CONCRETE, EXCEPT WALLS 7, 8 AND 9, WHICH SHALL BE A NATURAL STONE CAP.
4. FENCE ATTACHMENT SHALL BE PROVIDED ON THE WALLS BETWEEN STA. 116+88.00 TO 118+50.00 AND STA. 121+32.38 TO 121+63.91. FOR FENCE ATTACHMENT TO TOP OF WALL, SEE MASSDOT CONSTRUCTION STANDARD DRAWING E 404.4.0.
5. 4" ø WEEP HOLES. PROVIDE MIN. ½ CUBIC YARD OF CRUSHED STONE AT THE BACK SIDE OF THE WEEP HOLE. WEEP HOLES SHALL BE SPACED 20'-0" ON CENTER.
6. ALL CONCRETE SHALL BE 4000 PSI, 1 ½ IN, 565 CEMENT CONCRETE.
7. SEE NOTE 2 OF THE GEOTECH NOTES. CRUSHED STONE, WHERE USED, FOR ANY REQUIRED DEPTH OF MORE THAN 12 INCHES, SHOULD BE PLACED IN 6-INCH LAYERS AND COMPACTED TO AN UNYIELDING SURFACE AND SHALL BE WRAPPED IN FILTER FABRIC.

STONE MASONRY RET. WALL DETAIL

WALLS 1, 2, 3, & 4

SCALE: 1/4" = 1'-0"

GEOTECH NOTES:

1. THE INFORMATION PROVIDED IN THE TABLE IS RELATIVE TO THE FOLLOWING NOTES:
   - THE MAX. FACTORED BEARING PRESSURE = X.X KSF AS PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION.
   - FACTORED BEARING RESISTANCE = X.X KSF. FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE AND A RESISTANCE FACTOR OF X.XX.
2. WHERE PLACEMENT OF COMPACTED GRAVEL BORROW IS IN WET CONDITIONS, USE STONE FILL WRAPPED IN FILTER FABRIC.
3. FOR FACTORED BEARING RESISTANCE REFER TO THE GEOTECH REPORT BY NOBIS GROUP DATED FEBRUARY 23, 2022 (REVISED FROM NOVEMBER 30, 2021)

RETAINING WALLS GEOTECH SUMMARY

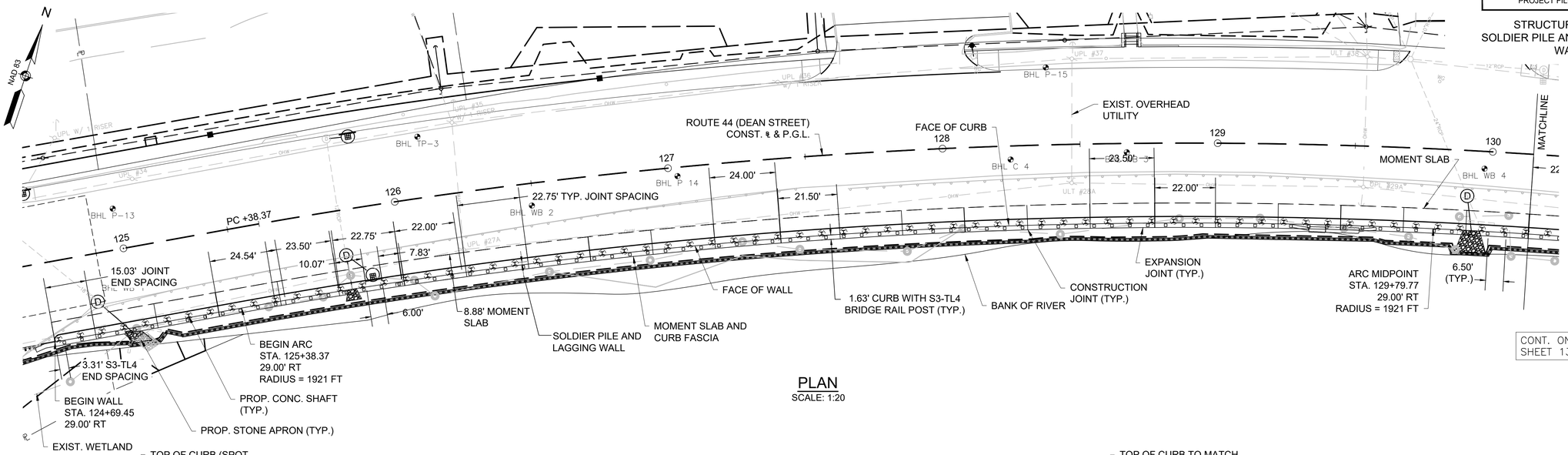
WALL NUMBER	STATION	DEPTH OF FILL BELOW FOOTING (IN)	BEARING PRESSURE (KSF)	FACTORED BEARING RESISTANCE (KSF)	RESISTANCE FACTOR
1	116+88.00 TO 118+50.00	42.00	2.24	2.30	0.55
2	118+00.00 TO 118+72.23	6.00	1.79	3.90	0.55
3	119+04.13 TO 120+48.73	6.00	1.79	2.30	0.55
4	120+84.24 TO 121+14.71	6.00	1.79	3.90	0.55
5	121+32.38 TO 121+63.91	42.00	1.99	2.30	0.55
7	131+31.00 TO 131+66.60	18.00	1.74	1.80	0.55
8	131+71.56 TO 133+07.09	18.00	1.74	1.80	0.55
9	133+69.85 TO 134+72.15	18.00	1.74	1.90	0.55

606024_BR_(LOW WALLS).DWG Plotted on 26-Aug-2022 5:59 PM

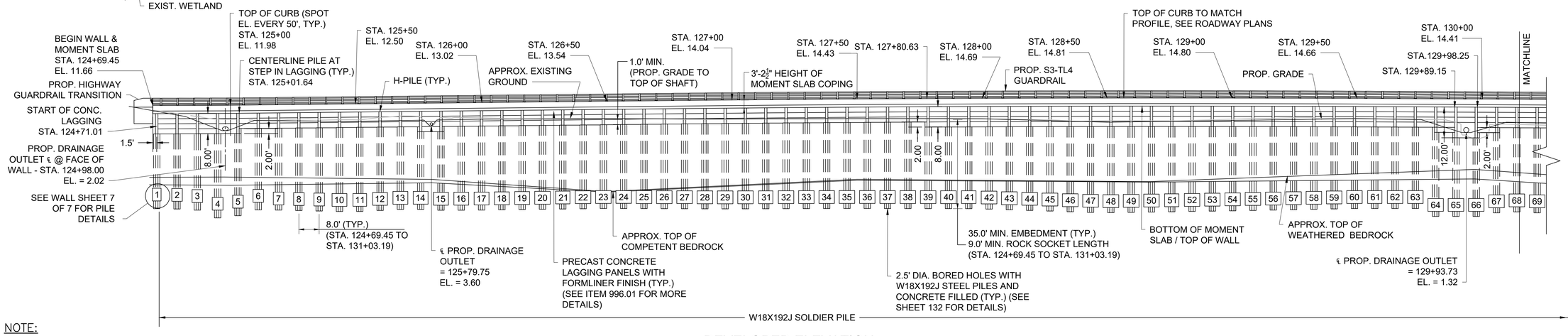
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	130	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
SOLDIER PILE AND LAGGING WALL
WALL 6



PLAN
SCALE: 1:20



DEVELOPED ELEVATION
SCALE: 1:20

NOTE:

BOTTOM OF LAGGING IS TO BE PLACED PARALLEL TO THE TOP OF CURB. SEE CONCRETE SHAFT TABLE FOR SHAFT STATIONS AND TOP OF SHAFT ELEVATIONS.

CONCRETE SHAFT TABLE

SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION
1	124+70.95	0.44	13	125+67.37	3.44	25	126+64.78	4.45	37	127+62.19	5.27	49	128+59.60	3.59
2	124+78.95	0.52	14	125+75.48	1.53	26	126+72.90	4.54	38	127+70.31	5.32	50	128+67.72	3.59
3	124+86.95	0.61	15	125+83.60	1.61	27	126+81.01	4.63	39	127+78.42	3.36	51	128+75.84	3.59
4	124+94.95	0.69	16	125+91.72	3.70	28	126+89.13	4.71	40	127+86.54	3.40	52	128+83.95	3.59
5	125+02.95	0.77	17	125+99.84	3.78	29	126+97.25	4.79	41	127+94.66	3.43	53	128+92.07	3.58
6	125+10.95	2.86	18	126+07.95	3.86	30	127+05.37	4.86	42	128+02.78	3.47	54	129+00.19	3.57
7	125+18.95	2.94	19	126+16.07	3.95	31	127+13.48	4.93	43	128+10.89	3.49	55	129+08.31	3.55
8	125+26.95	3.02	20	126+24.19	4.03	32	127+21.60	5.00	44	128+19.01	3.52	56	129+16.42	3.54
9	125+34.95	3.10	21	126+32.31	4.12	33	127+29.72	5.06	45	128+27.13	3.54	57	129+24.54	3.51
10	125+43.01	3.19	22	126+40.42	4.20	34	127+37.84	5.12	46	128+35.25	3.56	58	129+32.66	3.49
11	125+51.13	3.27	23	126+48.54	4.29	35	127+45.95	5.17	47	128+43.36	3.57	59	129+40.78	3.46
12	125+59.25	3.36	24	126+56.66	4.37	36	127+54.07	5.23	48	128+51.48	3.58	60	129+48.89	3.43

SHAFT NOTES:

1. CENTERLINE OF ALL SHAFTS LOCATED AT OFFSET 28.50 RT.
2. XX INDICATES SHAFT NUMBER.
3. SEE WALL SHEET 6 OF 7 FOR SHAFT NO. 61–117 STATIONS AND ELEVATIONS.

JOINT NOTE:

ALL STATIONING AND MEASUREMENTS SHOWN FOR THE MOMENT SLAB JOINTS SHALL BE TAKEN AT THE FRONT FACE OF THE CURB.

MOMENT SLAB JOINT TABLE

STATION	JOINT TYPE	STATION	JOINT TYPE
124+80.90	CONSTRUCTION	127+57.15	CONSTRUCTION
125+03.65	CONSTRUCTION	127+80.24	CONSTRUCTION
125+26.40	EXPANSION	128+03.34	EXPANSION
125+49.31	CONSTRUCTION	128+26.43	CONSTRUCTION
125+72.40	CONSTRUCTION	128+49.53	CONSTRUCTION
125+95.49	EXPANSION	128+72.62	EXPANSION
126+18.59	CONSTRUCTION	128+95.71	CONSTRUCTION
126+41.68	CONSTRUCTION	129+18.81	CONSTRUCTION
126+64.78	EXPANSION	129+41.90	EXPANSION
126+87.87	CONSTRUCTION	129+64.99	CONSTRUCTION
127+10.96	CONSTRUCTION	129+88.09	CONSTRUCTION
127+34.06	EXPANSION	130+11.18	EXPANSION

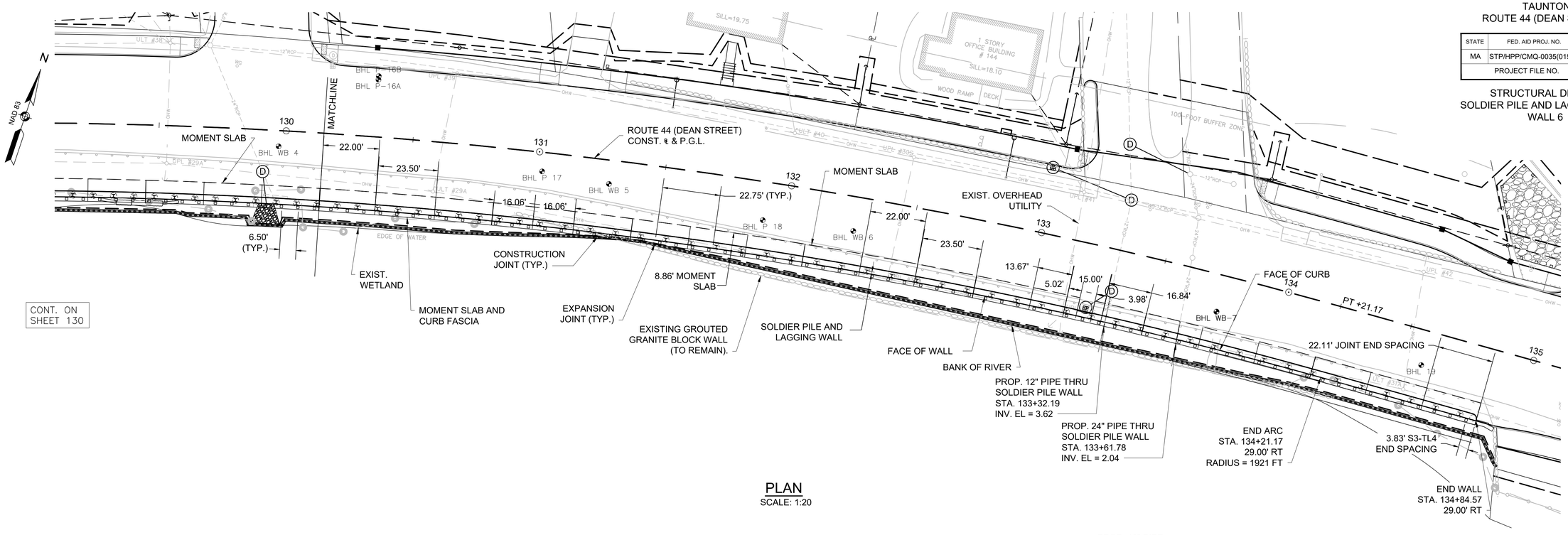
*TABLE PROVIDES JOINT LOCATIONS AT FRONT FACE OF MOMENT SLAB STEM. CONTRACTOR MAY ELECT TO USE DIFFERENT LOCATIONS. CONSTRUCTION JOINTS SHALL BE AT A 24'-0" MAX. SPACING AND EXPANSION JOINTS SHALL BE AT A 72'-0" MAX. SPACING.

606024_BR_(SOLDIER PILE WALL).DWG Plotted on 26-Aug-2022 6:00 PM

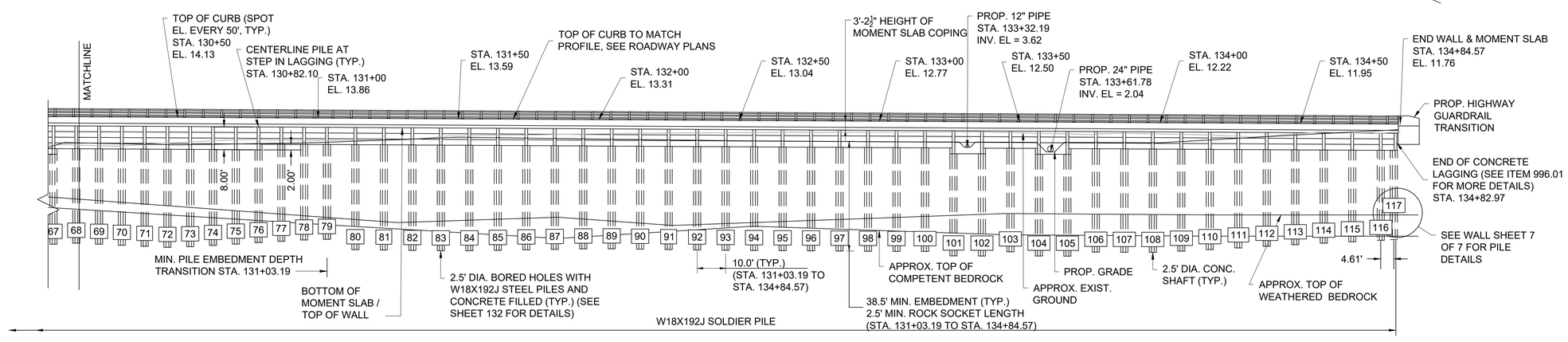
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	131	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
SOLDIER PILE AND LAGGING WALL
WALL 6



PLAN
SCALE: 1:20



DEVELOPED ELEVATION
SCALE: 1:20

NOTE:

BOTTOM OF LAGGING IS TO BE PLACED PARALLEL TO THE TOP OF CURB. SEE CONCRETE SHAFT TABLE FOR SHAFT STATIONS AND TOP OF SHAFT ELEVATIONS.

CONCRETE SHAFT TABLE

SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION	SHAFT NO.	STATION	TOP OF SHAFT ELEVATION
61	129+57.01	3.39	73	130+54.42	2.87	85	131+64.01	4.27	97	132+85.77	3.60	109	134+07.54	2.93
62	129+65.13	3.36	74	130+62.54	2.83	86	131+74.16	4.21	98	132+95.92	3.54	110	134+17.69	2.88
63	129+73.25	3.31	75	130+70.66	2.78	87	131+84.30	4.16	99	133+06.07	3.49	111	134+27.74	2.82
64	129+81.36	1.27	76	130+78.78	2.74	88	131+94.45	4.10	100	133+16.22	3.43	112	134+37.74	2.76
65	129+89.48	-0.77	77	130+86.89	4.69	89	132+04.60	4.05	101	133+26.36	1.38	113	134+47.74	2.71
66	129+97.60	-0.81	78	130+95.01	4.65	90	132+14.75	3.99	102	133+36.51	1.32	114	134+57.74	2.65
67	130+05.72	1.14	79	131+03.13	4.61	91	132+24.89	3.94	103	133+46.66	3.27	115	134+67.74	2.60
68	130+13.83	3.10	80	131+13.28	4.55	92	132+35.04	3.88	104	133+56.80	1.21	116	134+77.74	2.54
69	130+21.95	3.05	81	131+23.42	4.49	93	132+45.19	3.82	105	133+66.95	1.15	117	134+83.07	2.52
70	130+30.07	3.01	82	131+33.57	4.44	94	132+55.33	3.77	106	133+77.10	3.10			
71	130+38.19	2.96	83	131+43.72	4.38	95	132+65.48	3.71	107	133+87.24	3.04			
72	130+46.30	2.92	84	131+53.86	4.33	96	132+75.63	3.66	108	133+97.39	2.99			

SHAFT NOTES:

1. CENTERLINE OF ALL SHAFTS LOCATED AT OFFSET 28.50 RT.
2. XX INDICATES SHAFT NUMBER.
3. SEE WALL SHEET 5 of 7 FOR SHAFT NO. 1–60 STATIONS AND ELEVATIONS.

JOINT NOTE:

ALL STATIONING AND MEASUREMENTS SHOWN FOR THE MOMENT SLAB JOINTS SHALL BE TAKEN AT THE FRONT FACE OF THE CURB.

MOMENT SLAB JOINT TABLE

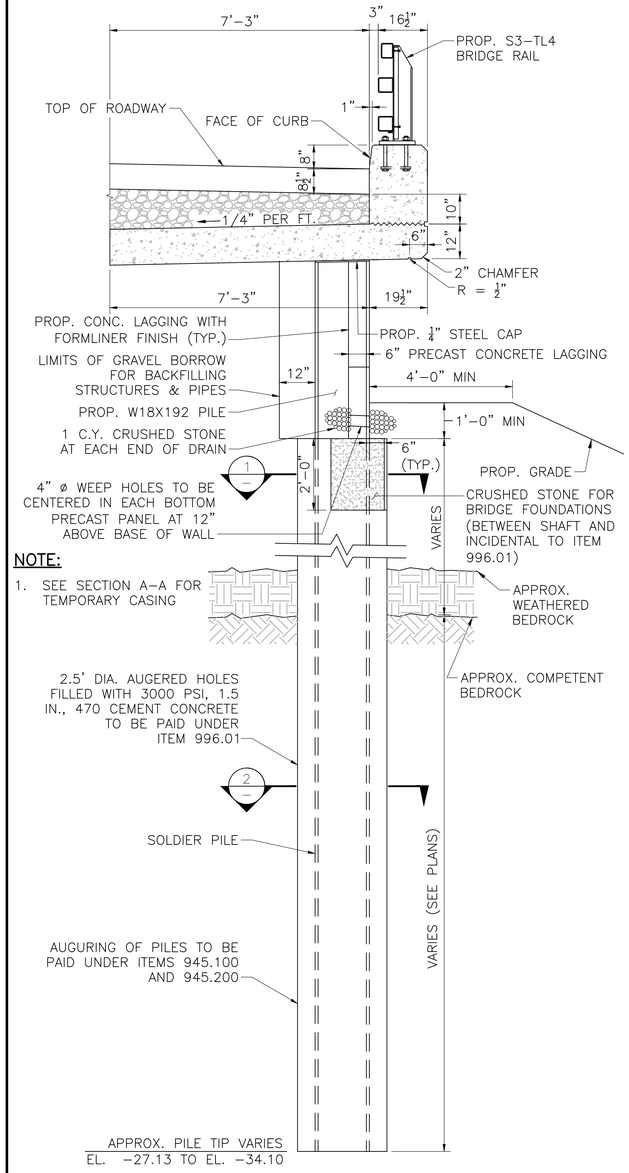
STATION	JOINT TYPE	STATION	JOINT TYPE
130+34.27	CONSTRUCTION	132+88.30	EXPANSION
130+57.37	CONSTRUCTION	133+11.39	CONSTRUCTION
130+80.46	EXPANSION	133+34.49	CONSTRUCTION
131+03.55	CONSTRUCTION	133+57.58	EXPANSION
131+26.65	CONSTRUCTION	133+80.67	CONSTRUCTION
131+49.74	EXPANSION	134+03.77	CONSTRUCTION
131+72.83	CONSTRUCTION	134+26.78	EXPANSION
131+95.93	CONSTRUCTION	134+49.53	CONSTRUCTION
132+19.02	EXPANSION	134+72.28	CONSTRUCTION
132+42.11	CONSTRUCTION		
132+65.21	CONSTRUCTION		

*TABLE PROVIDES JOINT LOCATIONS AT FRONT FACE OF MOMENT SLAB STEM. CONTRACTOR MAY ELECT TO USE DIFFERENT LOCATIONS. CONSTRUCTION JOINTS SHALL BE AT A 24'-0" MAX. SPACING AND EXPANSION JOINTS SHALL BE AT A 72'-0" MAX SPACING.

606024_BR_(SOLDIER PILE WALL).DWG Plotted on 26-Aug-2022 6:00 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	132	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
SOLDIER PILE AND LAGGING WALL
WALL 6



NOTE:

1. SEE SECTION A-A FOR TEMPORARY CASING

SOLDIER PILE AND MOMENT SLAB SECTION

SCALE: ½" = 1'-0"

SOLDIER PILE AND LAGGING NOTES:

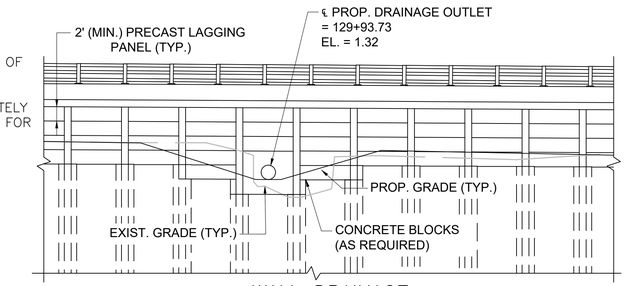
1. THE CONTRACTOR SHALL SUBMIT A PILE SCHEDULE AND PILE INSTALLATION PLAN FOR REVIEW AND APPROVAL OF THE ENGINEER.
2. AUGER 2.5' DIAMETER HOLES TO THE SPECIFIED ELEVATIONS. PRE-DRILLED HOLES SHALL BE WITHIN 2% OF PLUMB.
3. THE EXISTING GRANITE BLOCK WALL WILL BE ENCOUNTERED WHEN DRILLING HOLES BETWEEN APPROXIMATELY STA. 130+92 AND 134+28. DRILLING THROUGH THE GRANITE WILL BE REQUIRED. SEE GEOTECH REPORT FOR ADDITIONAL DETAILS ON WALL BATTER LOCATION.
4. DRILL 2.5' DIAMETER ROCK SOCKET INTO COMPETENT BEDROCK TO THE EMBEDMENT DEPTHS SHOWN ON THE PLANS. THE MINIMUM DEPTH OF SHAFT SHOWN ON THE PLANS MUST BE OBTAINED FOR ADEQUATE EMBEDMENT OF THE PILE.
5. PLACE, CENTRALIZE, AND SECURE PILE IN PRE-DRILLED HOLE WITHIN 3" OF PLAN POSITION IN THE HORIZONTAL PLANE AT THE TOP OF PILE ELEVATION.
6. PLACE 3000 PSI, 1.5", 470 CEMENT CONCRETE TO FILL THE ENTIRE 2.5' DIAMETER HOLE TO THE LIMITS SHOWN ON THE PLANS.
7. THE PILES FOR THE SOLDIER PILE AND LAGGING WALL ADJACENT TO THE CULVERTS SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF THE CULVERT PIPES. THE CULVERTS MAY NEED TO BE SHIFTED AS REQUIRED TO CLEAR THE CONCRETE SHAFTS. THE LAGGING SHALL ACCOMMODATE PIPE OPENINGS AND WEEP HOLES.
8. LAGGING TRANSPORT / HANDLING STRESSES OR OTHER DESIGN CONSIDERATIONS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR. THE CALCULATIONS AND DETAILS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
9. THE SOLDIER PILES HAVE BEEN DESIGNED CONSIDERING FREE DRAINING BACKFILL. WEEP HOLES SHALL BE INSTALLED IN THE LOWEST PANEL OF EACH BAY. SEE REINFORCED CONCRETE PANEL DETAILS FOR FURTHER INFORMATION. BOTH WEEP HOLES AND CRUSHED STONE ARE INCIDENTAL TO THIS ITEM.
10. PILES SHALL CONFORM TO THE SIZES AND LENGTHS SHOWN ON THE PLANS. PILES SHALL BE GRADE 50. THE FULL EXPOSED HEIGHT AND THE UPPER 2 FEET IN THE CONCRETE CASING SHALL BE GALVANIZED. REFER TO ITEM 996.01.
11. REFER TO ITEM 996.01 IN THE SPECIAL PROVISIONS FOR FURTHER INFORMATION AND REQUIREMENTS.
12. REFER TO SHEETS 9, 10 AND 11 FOR THE BORING LOGS ASSOCIATED WITH THIS WALL.
13. ANTICIPATED DEFLECTION AT TOP OF WALL:
    STA. 124+69.45 TO STA. 131+00.00 = 1.10"
    STA. 131+00.00 TO STA. 134+84.57 = 0.70"
14. FOR RAIL POST AND JOINT SPACING, SEE SHEETS 129 AND 130.
15. FOR MORE INFORMATION ON SOLDIER PILE AND LAGGING WALL SEE GEOTECHNICAL REPORT BY NOBIS GROUP DATED FEBRUARY 23, 2022

SOLDIER PILE EMBEDMENT NOTES:

1. SOLDIER PILE EMBEDMENT DEPTH TO BE A MIN. OF 34.76 FT BELOW GROUND SURFACE WITH A MIN. ROCK SOCKET LENGTH OF 9 FT FROM STA. 124+69 TO STA. 131+03.
2. SOLDIER PILE EMBEDMENT DEPTH TO BE A MIN. OF 38.48 FT BELOW GROUND SURFACE WITH A MIN. ROCK SOCKET LENGTH OF 2.5 FT FROM STA. 131+03 TO STA. 134+84.
3. IF BEDROCK IS NOT ENCOUNTERED BELOW PILE MIN. EMBEDMENT DEPTH, CONTACT NOBIS ENGINEERING AND MASSDOT GEOTECHNICAL SECTION.

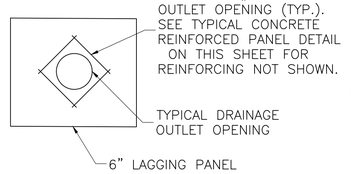
LAGGING NOTES:

1. THE LAGGING SHALL BE PRECAST 5000 PSI, ¾", 705 CEMENT CONCRETE. USE OF TIMBER LAGGING IS FORBIDDEN.
2. ALL PRECAST LAGGING PANELS SHALL BE INSTALLED PARALLEL TO ROADWAY GRADE. SEE CONCRETE SHAFT TABLE ON WALL SHEETS 5 & 6.
3. PLACE AN APPROVED GROUT UNDER THE ENDS OF LAGGING PANELS AT TOP OF CONCRETE SHAFT TO ENSURE A COMPLETE BEARING AREA SURFACE FOR THE PANELS.



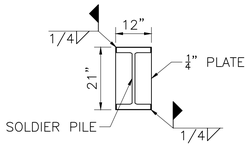
WALL DRAINAGE OUTLET DETAIL

STA. 129+93.73 SHOWN. OTHER DRAINAGE OUTLETS SIMILAR
SCALE: 1:10



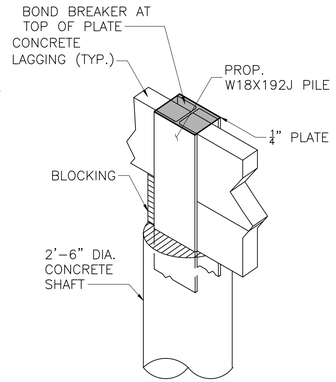
LAGGING DETAIL AT DRAINAGE OUTLET

SCALE: ¼" = 1'-0"



PILE CAP DETAIL

SCALE: ½" = 1'-0"

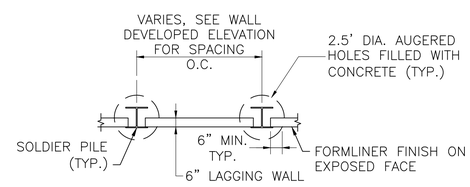


ISOMETRIC VIEW

N.T.S

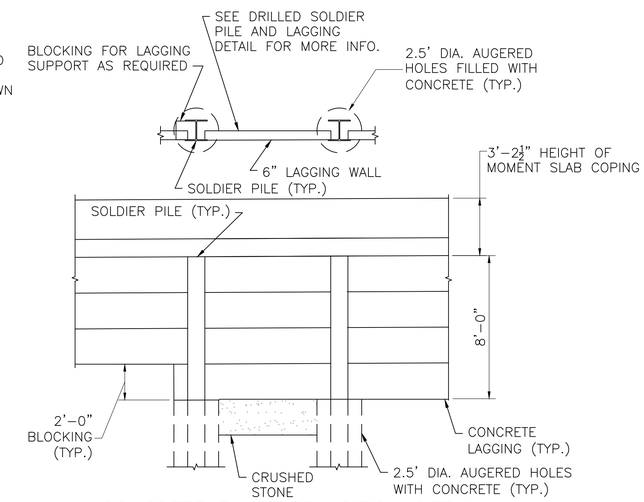
WALL LAGGING CONSTRUCTION SEQUENCE:

1. AFTER THE H-PILE IS INSTALLED AND CUT TO ELEVATION AND THE SHAFT CONCRETE IS PLACED WITH AT LEAST FIVE DAYS PROVIDED FOR CURING, INSTALL CONCRETE LAGGING AS SHOWN ON THE PLANS.
2. ONCE THE LAGGING IS IN PLACE, FIELD WELD THE ¼" CAP PLATE TO THE PILE AS SHOWN IN THE PILE CAP DETAIL.
3. ADHERE HEAVY WRAPPING PAPER OR SUITABLE EQUIVALENT MATERIAL TO THE TOP OF THE PLATE TO SERVE AS A BOND BREAKER TO THE MOMENT SLAB FOOTING.
4. BACKFILL AND COMPACT BEHIND THE WALL LAGGING.
5. CONSTRUCT MOMENT SLAB.



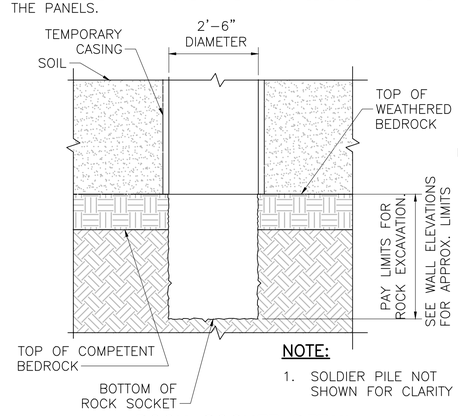
DRILLED SOLDIER PILE AND LAGGING DETAIL

SCALE: ¼" = 1'-0"



CONCRETE SHAFT TRANSITION DETAIL

SCALE: ¼" = 1'-0"

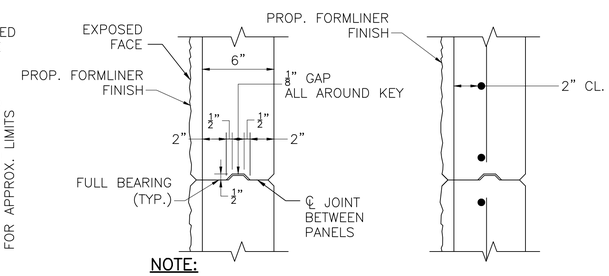


NOTE:

1. SOLDIER PILE NOT SHOWN FOR CLARITY

ROCK SOCKET DETAIL

NOT TO SCALE

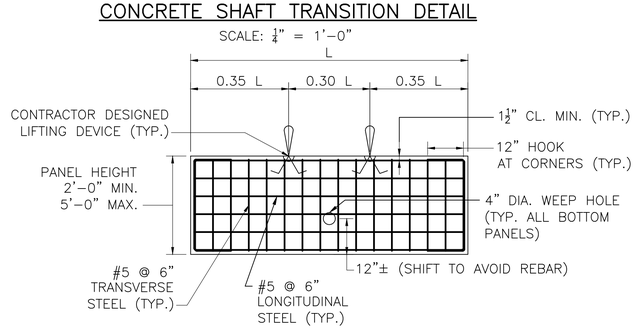


NOTE:

1. KEYS NOT REQUIRED TOP AND BOTTOM OF WALL

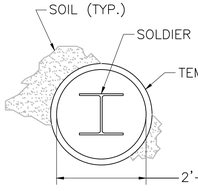
JOINT BETWEEN PANELS

SCALE: 2" = 1'-0"



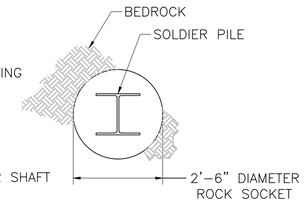
TYPICAL REINFORCED CONCRETE PANEL

SCALE: ½" = 1'-0"



SOIL SHAFT SECTION 1

SCALE: ½" = 1'-0"



ROCK SHAFT SECTION 2

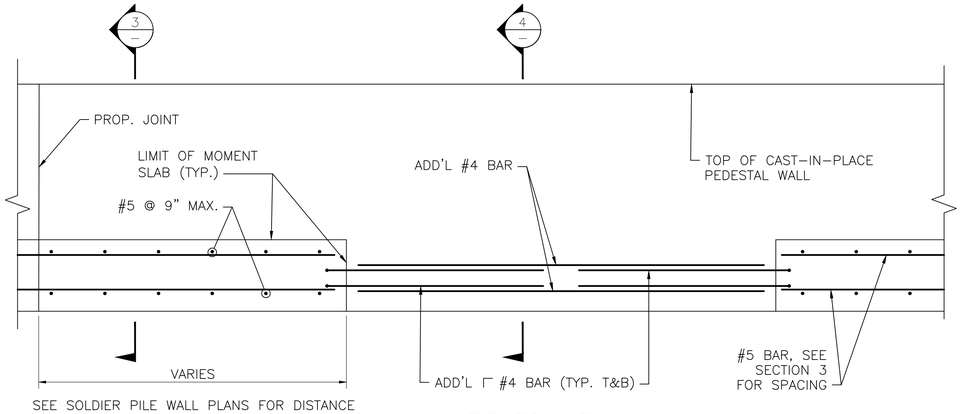
SCALE: ½" = 1'-0"

606024_BR_(SOLDIER PILE WALL).DWG Plotted on 16-Sep-2022 12:07 PM

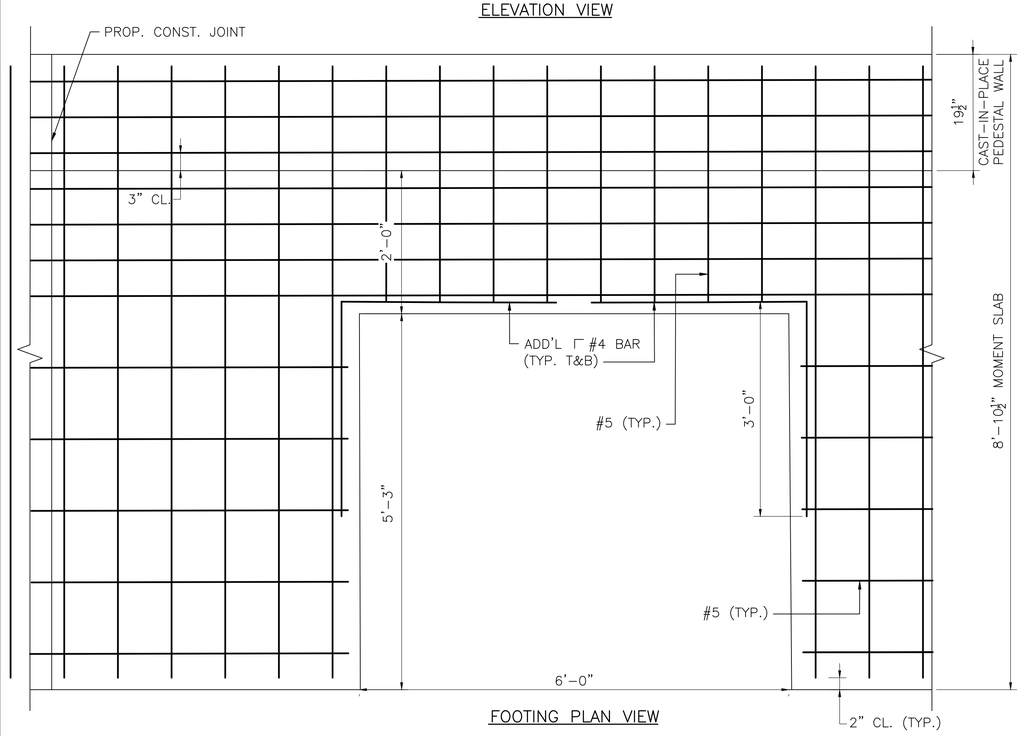
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	133	185
PROJECT FILE NO.	606024		

STRUCTURAL DETAILS
RETAINING WALL DETAILS

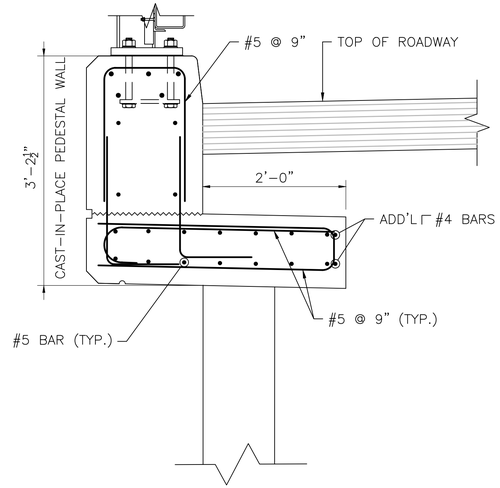


ELEVATION VIEW

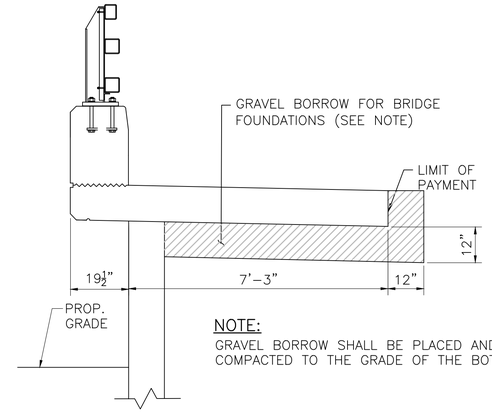


FOOTING PLAN VIEW

MOMENT SLAB & PEDESTAL WALL AT DRAINAGE STRUCTURE
SCALE 1" = 1'-0"

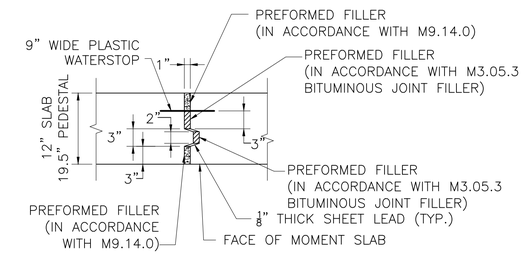


SECTION 4



NOTE:
GRAVEL BORROW SHALL BE PLACED AND THOROUGHLY COMPACTED TO THE GRADE OF THE BOTTOM OF THE SLAB.

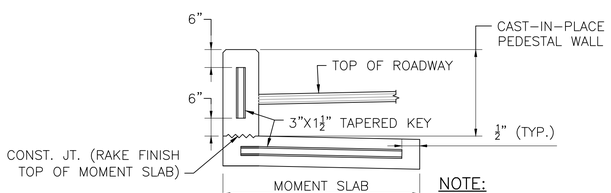
MOMENT SLAB BACKFILL
SCALE ½" = 1'-0"



LIMITS OF EXPANSION JOINT PREFORMED FILLER DETAIL
NOT TO SCALE

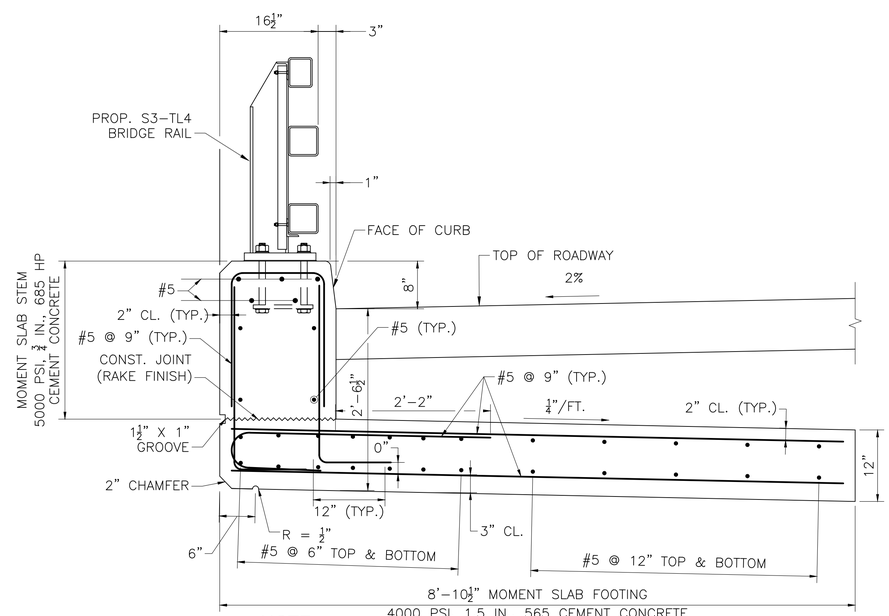
MOMENT SLAB NOTES:

1. CONTINUE REINFORCING THROUGH ALL MOMENT SLAB CONSTRUCTION JOINTS.
2. PEDESTAL WALL REINFORCING NOT SHOWN IN PLAN OR ELEVATION VIEWS FOR CLARITY.
3. UNLESS OTHERWISE NOTED, JOINTS SHALL BE SPACED AT 22'-9" INTERVALS & EXPANSION JOINTS SHALL BE SPACED AT 68'-3". JOINTS ARE TO MAINTAIN A MINIMUM DISTANCE OF 15" FROM S3-TL4 POSTS.
4. FOR MAXIMUM ALLOWABLE CONSTRUCTION AND EXPANSION SPACINGS, SEE MOMENT SLAB JOINT TABLE NOTE ON WALL SHEETS 5 AND 6 OF 7.



NOTE:
SEE LIMITS OF EXPANSION JOINT PREFORMED FILLER DETAIL.

MOMENT SLAB EXPANSION JOINT AND CONSTRUCTION JOINT DETAIL
NOT TO SCALE



NOTE:
1. SOLDIER PILE WALL NOT SHOWN FOR CLARITY.

SECTION 3
SCALE: 1" = 1'-0"

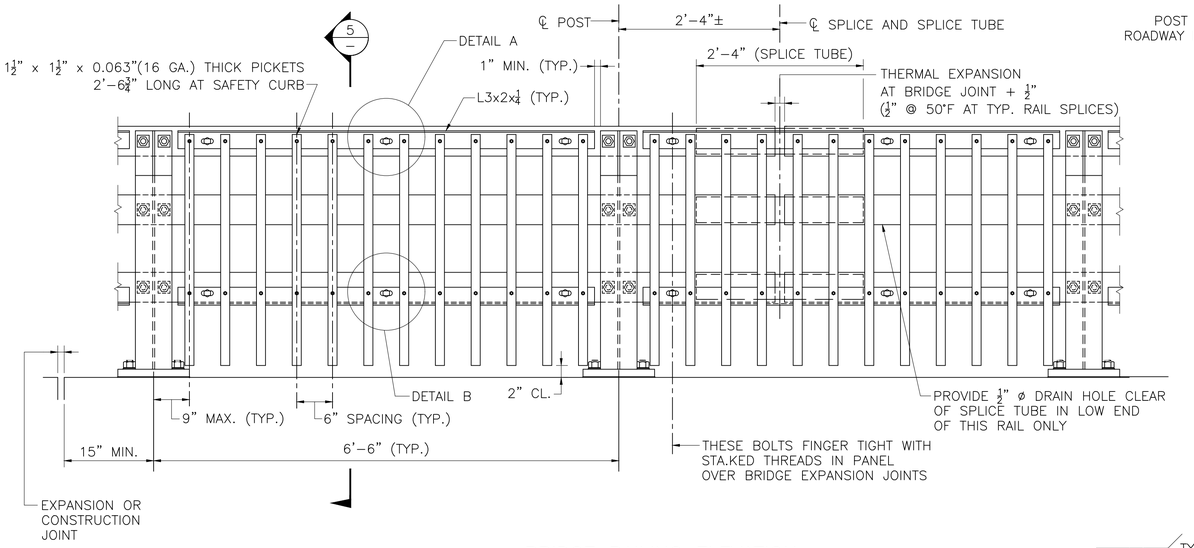
606024_BR_(MOMENT SLAB DETAILS).DWG Plotted on 16-Sep-2022 11:55 AM

TAUNTON
ROUTE 44 (DEAN STREET)

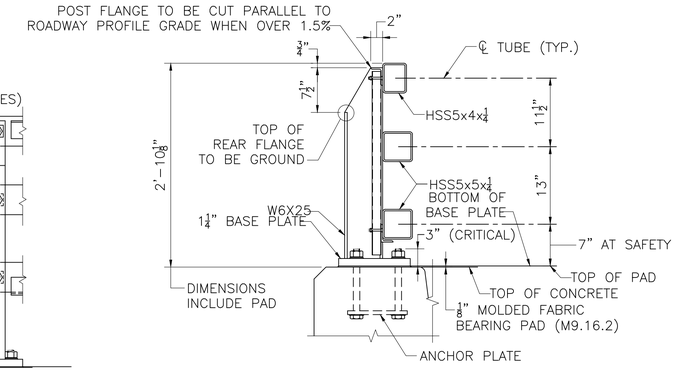
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	134	185
PROJECT FILE NO. 606024			

STRUCTURAL DETAILS
S3-TL4 BRIDGE RAILING DETAILS

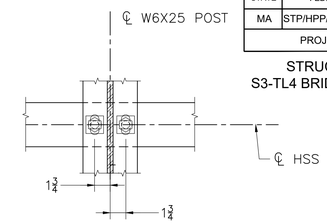
606024_BR_S3TL4 STANDARD SHEET.DWG 26-Aug-2022



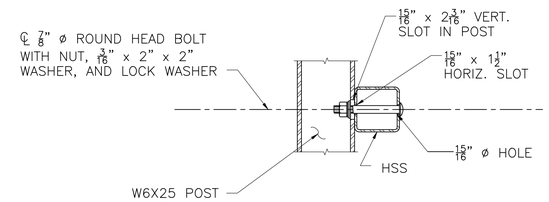
BRIDGE RAILING ELEVATION
SCALE: 1" = 1'-0"



SECTION 5
SCALE: 1" = 1'-0"



SECTION THRU POST WEB

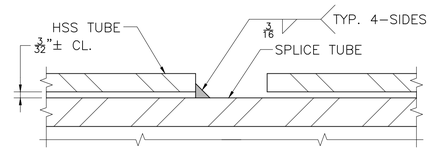


SECTION THRU RAIL

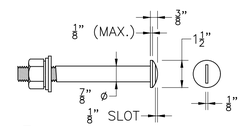
NOTE:

CONNECTIONS AT LOWER RAILS SHOWN.
CONNECTIONS AT TOP RAIL SIMILAR.

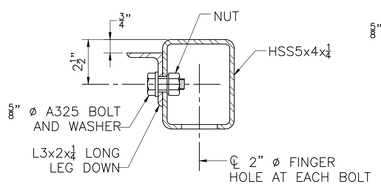
TYPICAL RAIL TO POST CONNECTIONS
SCALE: 1½" = 1'-0"



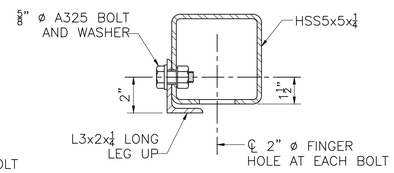
SPLICE DETAIL
FULL SIZE



⅞" ø ROUND HEAD BOLT
SCALE: 3" = 1'-0"

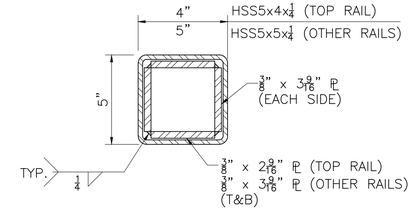


SECTION 6

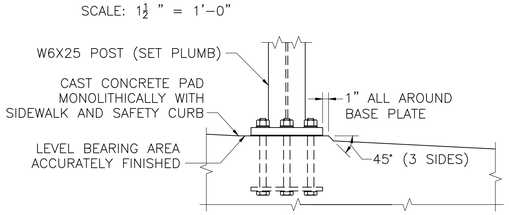


SECTION 8

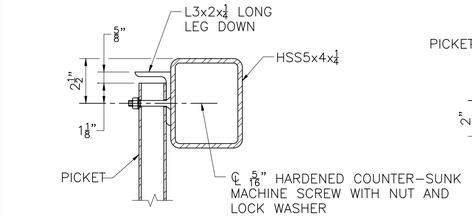
TYPICAL SPLICE
SCALE: 1" = 1'-0"



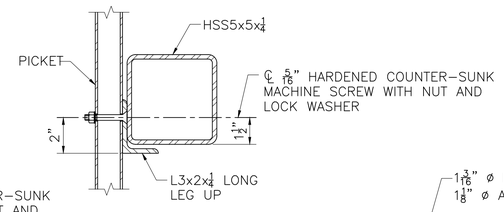
SPLICE TUBE DETIALS
SCALE: 3" = 1'-0"



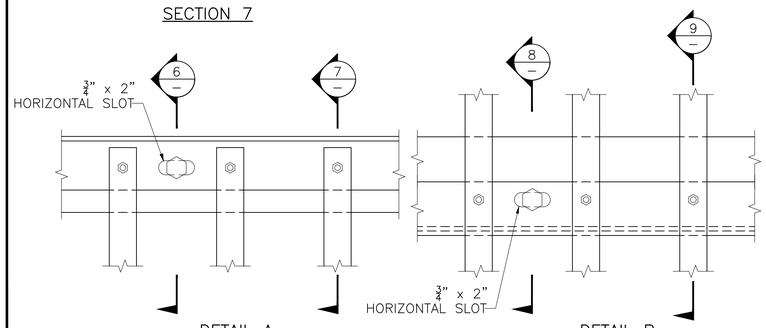
SETTING OF POSTS (PROFILE GRADE OVER 1.5%)
SCALE: 1" = 1'-0"



SECTION 7

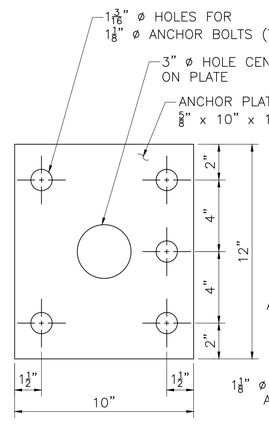


SECTION 9

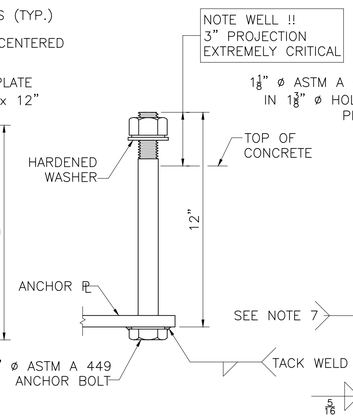


DETAIL A DETAIL B

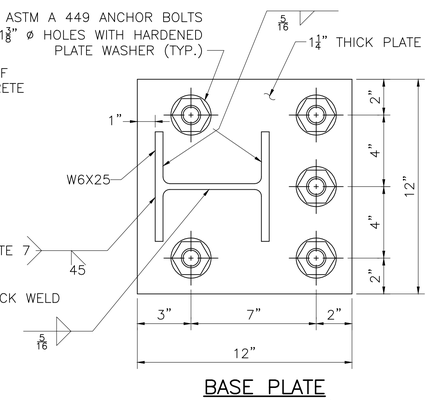
TYPICAL PICKET TO RAIL DETAILS
SCALE: 3" = 1'-0"



ANCHOR PLATE
SCALE: 3" = 1'-0"



ANCHOR BOLT
SCALE: 3" = 1'-0"

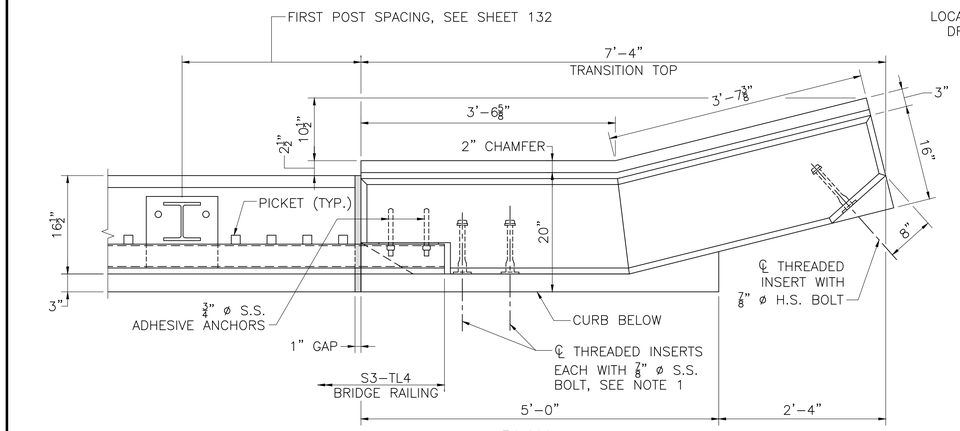


BASE PLATE
SCALE: 3" = 1'-0"

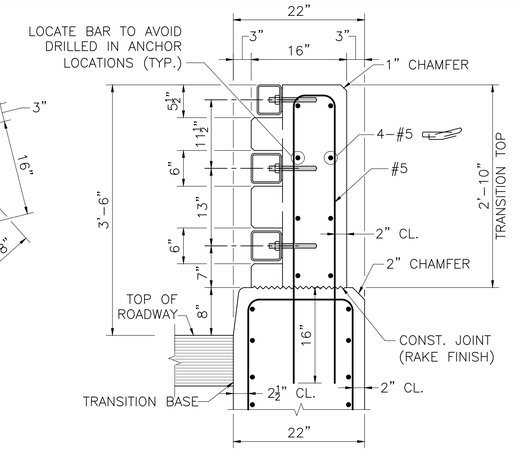
RAILING NOTES:

1. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 500 WITH A CERTIFIED Fy = 50 KSI MINIMUM. THE MINIMUM HORIZONTAL BENDING RADII OF THE HSS TUBING SHALL BE 8 FEET. PICKET CARRIER ANGLES, ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 36. PICKET TUBING SHALL CONFORM TO ASTM A 513 WITH Fy = 36 KSI MIN. OR A 500 GRADE B.
2. ALL STEEL (EXCEPT THE ⅝" ANCHOR PLATE AND FASTENERS) SHALL BE GALVANIZED AND PAINTED DARK BRONZE (FEDERAL STD. 595B COLOR NO. 10045). ANCHOR PLATE SHALL BE GALVANIZED ONLY. HEADS OF ⅞" ø ROUND HEAD BOLTS SHALL BE PAINTED TO MATCH RAIL.
3. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN AFTER STEEL IS IN PLACE.
4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF FOUR (4) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN THE PANELS OVER EXPANSION JOINT.
5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
6. ALL POSTS TO BE PLUMB WHEN PROFILE GRADE EXCEEDS 1.5%. FOR PROFILE GRADES LESS THAN 1.5%, POSTS SHALL BE SET PERPENDICULAR TO GRADE.
7. POST FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. WELD SHALL BE BACK-GOUGED ON BACK SIDE EXCEPT AT WEB. WELD IS THE SAME ON BOTH FLANGES.
8. ⅞" ø ROUND HEAD BOLTS SHALL CONFORM TO THE CHEMICAL AND PHYSICAL REQUIREMENTS OF AASHTO M 164.

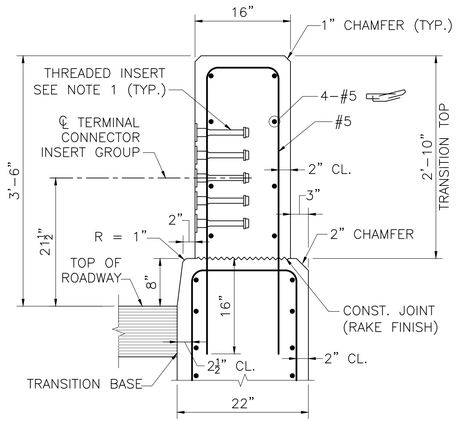
S3-TL4 BRIDGE RAILING



PLAN
SCALE: 1" = 1'-0"



SECTION 11
SCALE: 1" = 1'-0"

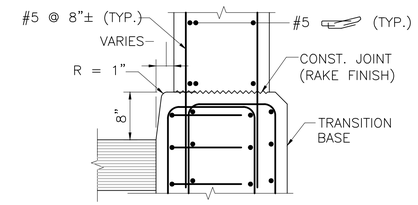


SECTION 12
SCALE: 1" = 1'-0"

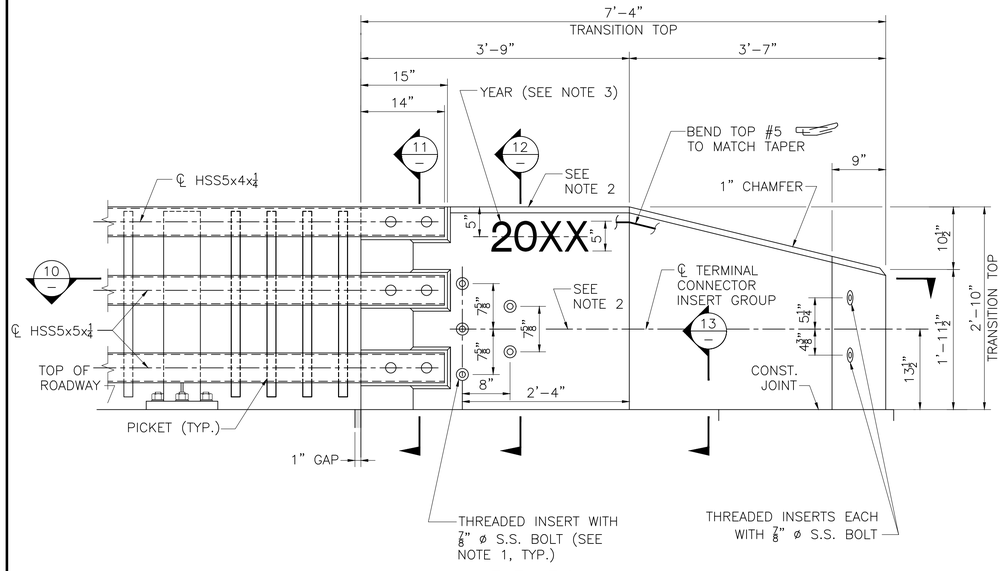
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	135	185
PROJECT FILE NO. 606024			

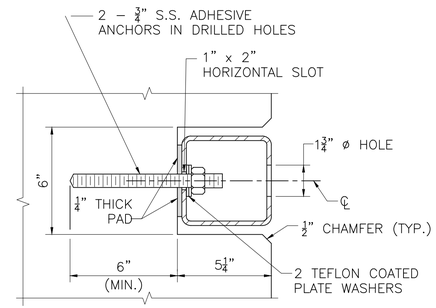
STRUCTURAL DETAILS
PRECAST HIGHWAY GUARDRAIL
TRANSITION DETAILS



SECTION 13
SCALE: 1" = 1'-0"



ELEVATION
SCALE: 1" = 1'-0"



SECTION 14
SCALE: 3" = 1'-0"

NOTES:

1. THREADED INSERTS SHALL BE PREQUALIFIED BY THE MANUFACTURER AS BEING CAPABLE OF DEVELOPING A NOMINAL SHEAR RESISTANCE OF 20 KIPS PER ⅞" ø S.S. BOLT. S.S. BOLTS SHALL BE ⅞" ø x 1½" LONG FULLY THREADED AISI TYPE 304N STAINLESS STEEL. INSERTS FOR ⅞" S.S. BOLTS SHALL BE GALVANIZED AND CAST INTO THE TRANSITION.

2. FOR AN APPROACH GRADE UP TO 3%, THE TRANSITION MAY BE CAST SQUARE AND SET PLUMB WITH THE MINIMUM EMBEDMENT DEPTH SHOWN. THE TERMINAL CONNECTOR INSERT GROUP SHALL BE SQUARE TO THE POST.

   FOR AN APPROACH GRADE IN EXCESS OF 3%, THE TRANSITION TOP AND THE TOP OF CURB SHALL FOLLOW THE APPROACH GRADE. THE HEIGHT OF THE TRANSITION TOP SHALL VARY PROVIDED THAT THE MINIMUM DIMENSIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE MET. THE BOTTOM OF THE TRANSITION BASE SHALL BE SET LEVEL WITH THE MINIMUM EMBEDMENT DEPTH SHOWN. THE TERMINAL CONNECTOR INSERT GROUP SHALL BE SLOPED TO FOLLOW THE APPROACH GRADE.

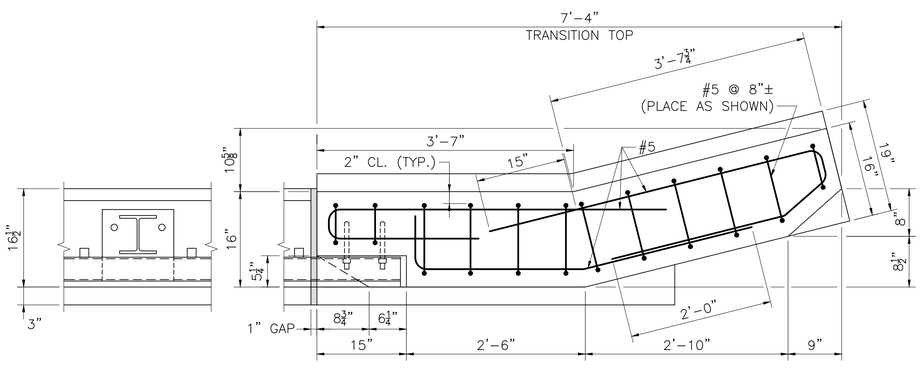
3. USE LATEST CONTRACT COMPLETION YEAR IN EFFECT WHEN THE FIRST GUARDRAIL TRANSITION IS CAST. USE THIS YEAR FOR ALL GUARDRAIL TRANSITIONS.

4. ALL CONCRETE FOR THE PRECAST HIGHWAY GUARDRAIL TRANSITION SHALL BE 5000 PSI, ¾", 685 HP CEMENT CONCRETE.

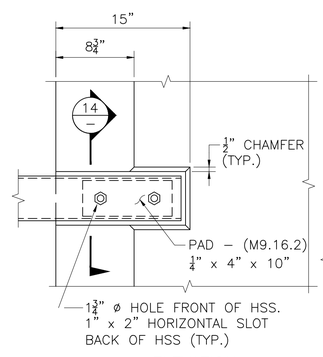
5. LIFTING DEVICES (NOT SHOWN), INCLUDING THEIR NUMBER AND LOCATION, SHALL BE DESIGNED AND DETAILED BY THE PRECASTER. THEY SHALL BE GALVANIZED AND SHALL BE PLACED AND RECESSED IN POCKETS TO PROVIDE 1½" CLEAR COVER TO THE FACE OF THE TRANSITION CONCRETE. THESE DEVICES SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS ALONG WITH ALL SUPPORTING CALCULATIONS AND/OR CATALOG CUTS. ONCE THE PRECAST TRANSITION IS SET IN PLACE, THE LIFTING DEVICE POCKETS SHALL BE FILLED WITH A NON-SHRINK GROUT THAT MATCHES THE COLOR OF THE TRANSITION CONCRETE WHEN CURED AND THE FILLED POCKETS SHALL BE RUBBED WITH A CORUNDUM STONE TO BLEND OUT THE JOINTS.

6. GRAVEL BORROW SHALL BE PLACED AND THOROUGHLY COMPACTED TO THE GRADE OF 3" (MIN.) BELOW THE INTENDED BOTTOM OF THE PRECAST GUARDRAIL TRANSITION BASE AND TO A HEIGHT OF 2'-0" (MIN.) ON ALL SIDES OF THE TRANSITION BASE TO FORM A TRENCH IN WHICH TO SET THE TRANSITION. WHERE NO GRAVEL BORROW IS REQUIRED BELOW THE BASE, IT SHALL BE PLACED ON UNDISTURBED SOIL.

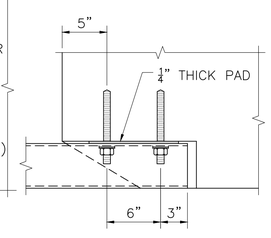
7. CONTRACTOR SHALL SET THE PRECAST GUARDRAIL TRANSITION TO THE REQUIRED ELEVATION AND ALIGNMENT, AND BACKFILL PRECAST GUARDRAIL TRANSITION WITH CONTROLLED DENSITY FILL (NON-EXCAVATABLE) TO THE ELEVATION SHOWN.



SECTION 10
SCALE: 1" = 1'-0"



ELEVATION



PLAN

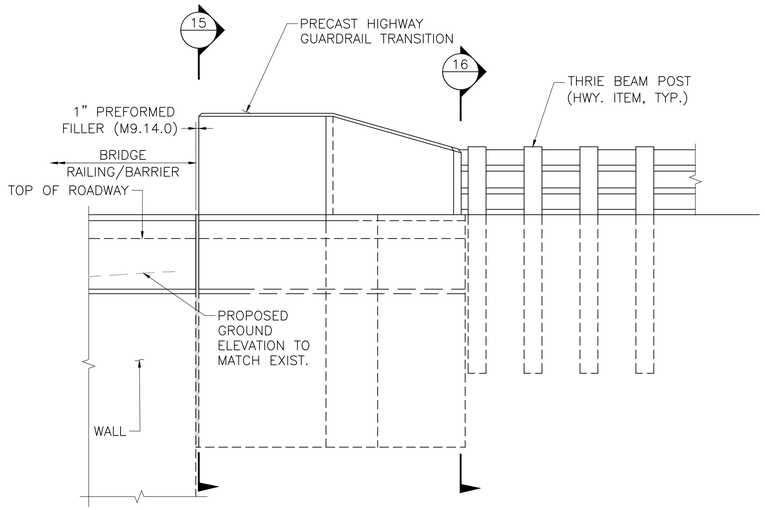
RAIL ATTACHMENT
SCALE: 1½" = 1'-0"

606024_BR_PRECAST GC TRANS SECTION 2 OF 2.DWG 26-Aug-2022

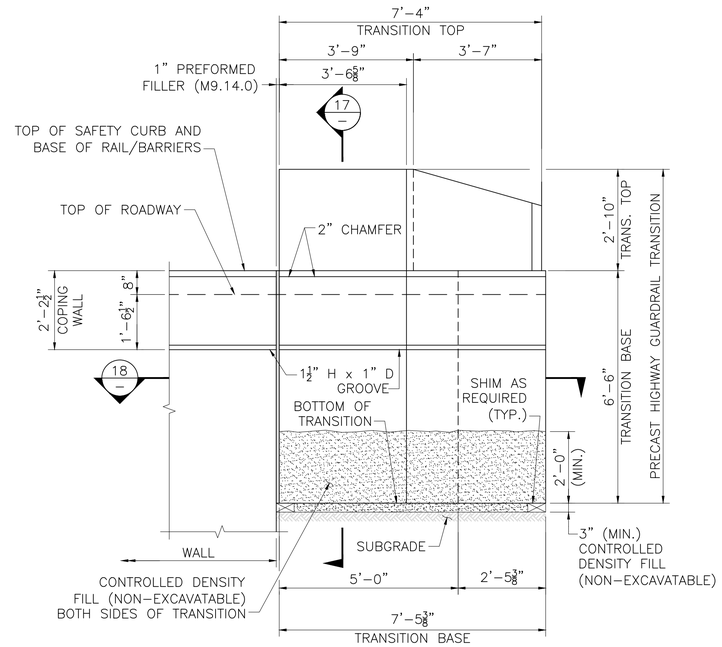
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	136	185
PROJECT FILE NO. 606024			

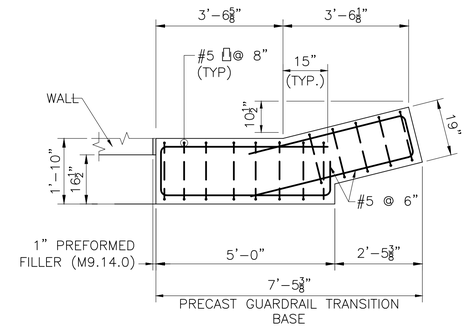
STRUCTURAL DETAILS
PRECAST HIGHWAY GUARDRAIL
TRANSITION DETAILS



GRADING REQUIREMENTS
ELEVATION
SCALE: $\frac{1}{2}$" = 1'–0"

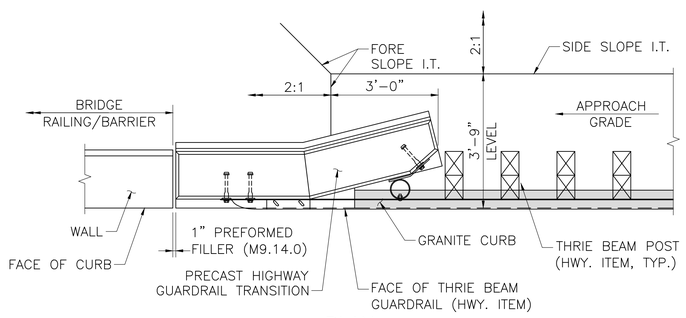


PRECAST GUARDRAIL TRANSITION
ELEVATION AT WALL
SCALE: $\frac{1}{2}$" = 1'–0"

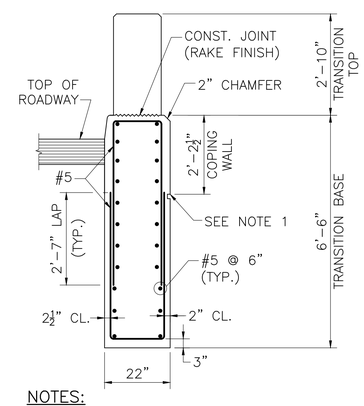


NOTE:
WALL DETAILS
NOT SHOWN FOR CLARITY.

SECTION 18
SCALE: $\frac{1}{2}$" = 1'–0"



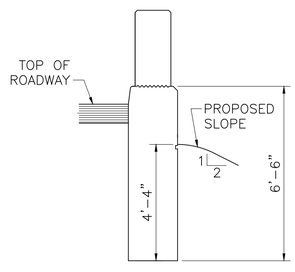
PLAN
GRADING REQUIREMENTS
SCALE: $\frac{1}{2}$" = 1'–0"



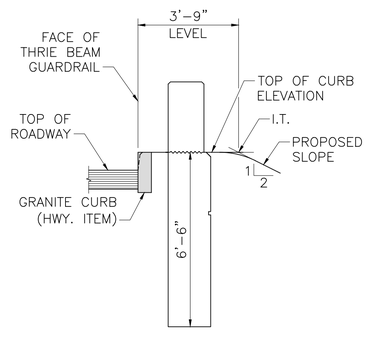
NOTES:

1. 1$\frac{1}{2}$" H x 1" D GROOVE. ALIGN WITH GROOVE AT TOP OF STRIATIONS.
2. REINFORCEMENT OF THE TRANSITION TOP IS NOT SHOWN FOR CLARITY.

SECTION 19
SCALE: $\frac{1}{2}$" = 1'–0"

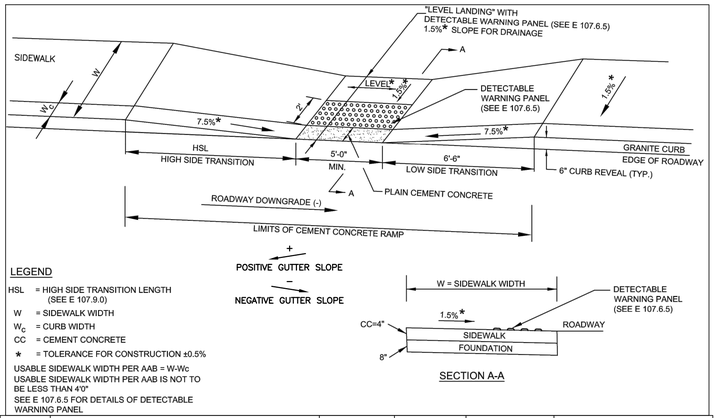


SECTION 15
SCALE: $\frac{3}{8}$" = 1'–0"



SECTION 16
SCALE: $\frac{3}{8}$" = 1'–0"

606024_BR_PRECAST GC TRANS SECTION 2 OF 2.DWG 26-Aug-2022



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
W = SIDEWALK WIDTH
W_C = CURB WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%
USABLE SIDEWALK WIDTH PER AAB = W-Wc
USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'0"
SEE E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

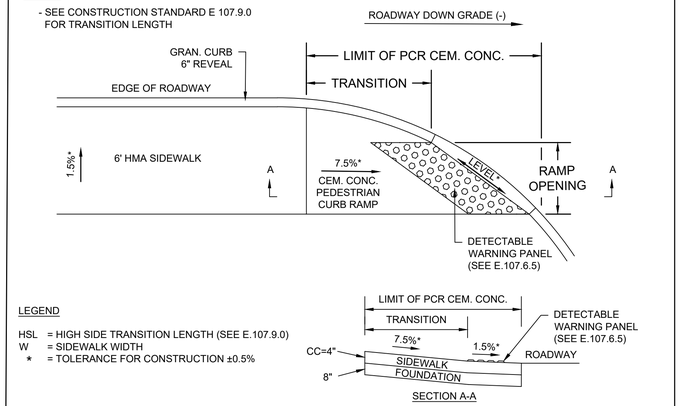
PCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
1	LONGMEADOW RD	504+00	60.3' RT	6'-0"	5'-0"	2.59%	11'-0"	NA
4	ROUTE 44	115+21	47.1' LT	6'-0"	5'-0"	0.48%	6'-6"	3'-9" **
5	LONGMEADOW RD	502+70	28.5' RT	6'-0"	5'-0"	2.27%	3'-3" **	11'-0"
8	LONGMEADOW RD	502+71	34.4' LT	6'-0"	5'-0"	-2.94%	NA	3'-3" **
11	ROUTE 44	116+13	45.7' LT	6'-0"	5'-0"	0.48%	3'-3" **	7'-8"
12	LONGMEADOW RD	504+05	57.8' LT	6'-0"	5'-0"	3.08%	6'-6"	14'-0"
23	ROUTE 44	137+33	28.0' LT	8'-0"	5'-0"	-0.78%	7'-8"	4'-4" ****
24	ROUTE 44	137+31	32.3' RT	6'-0"	5'-0"	0.78%	NA	7'-8"

**** 4" REVEAL
** 3" REVEAL
*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

PEDESTRIAN CURB RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL

NOTES:

- SEE CONSTRUCTION STANDARD E 107.9.0 FOR TRANSITION LENGTH



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E.107.9.0)
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION ±0.5%

PCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH ***
	BASELINE	STATION	OFFSET				
13	ROUTE 44	122+46	32.6' LT	6'-0"	3'-0"	0.68%	6'-6"
14	ROUTE 44	123+07	31.3' LT	6'-0"	3'-0"	0.90%	7'-8"
15	ROUTE 44	123+94	31.5' LT	6'-0"	3'-0"	1.04%	6'-6"

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

PEDESTRIAN AND BICYCLE CROSSING FOR ONE CONTINUOUS DIRECTION OF TRAVEL

ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" Max

NOTE:

* BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".

NOTE:

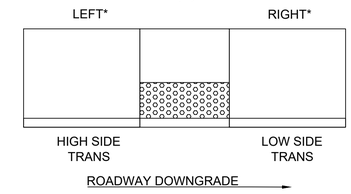
1. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PEDESTRIAN CURB RAMPS.

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	137	185
PROJECT FILE NO.	606024		

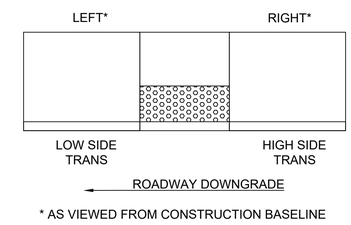
PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

NEGATIVE SLOPE (-)

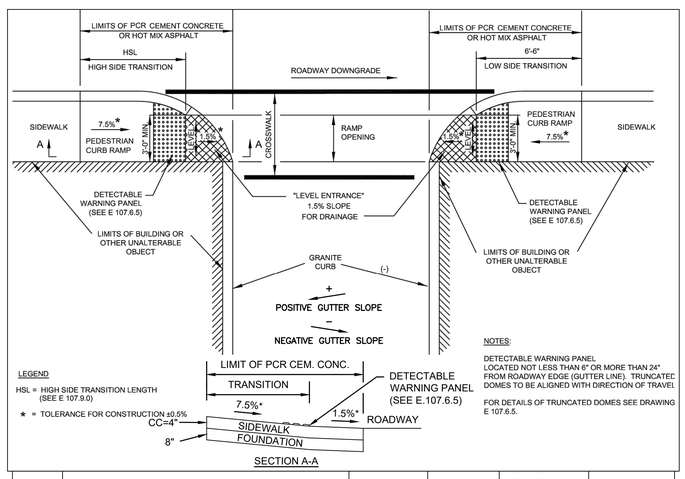


* AS VIEWED FROM CONSTRUCTION BASELINE

POSITIVE SLOPE (+)



* AS VIEWED FROM CONSTRUCTION BASELINE



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:

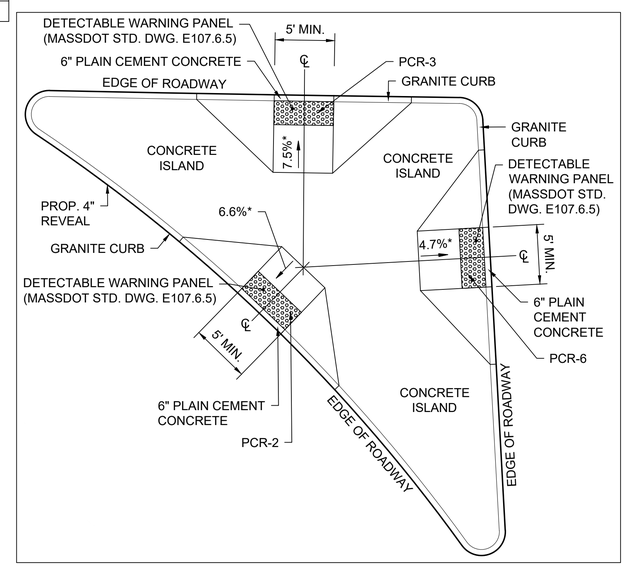
DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE (GUTTER LINE). TRUNCATED DOMES TO BE ALIGNED WITH DIRECTION OF TRAVEL

FOR DETAILS OF TRUNCATED DOMES SEE DRAWING E 107.6.5.

PCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH ***
	BASELINE	STATION	OFFSET				
16	ROUTE 44	124+45	33.5' LT	8'-0"	3'-0"	1.04%	7'-8"
17	ROUTE 44	129+67	33.0' LT	8'-0"	4'-0"	-0.48%	7'-8"
18	ROUTE 44	130+09	33.0' LT	8'-0"	4'-0"	-0.55%	6'-6"
19	ROUTE 44	133+14	32.5' LT	8'-0"	5'-0"	-0.55%	7'-8"
20	ROUTE 44	133+78	37.5' LT	8'-0"	5'-0"	-0.55%	6'-6"
21	ROUTE 44	136+24	33.5' LT	8'-0"	3'-0"	-0.78%	7'-8"
22	ROUTE 44	136+76	33.5' LT	8'-0"	3'-0"	-0.78%	6'-6"

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

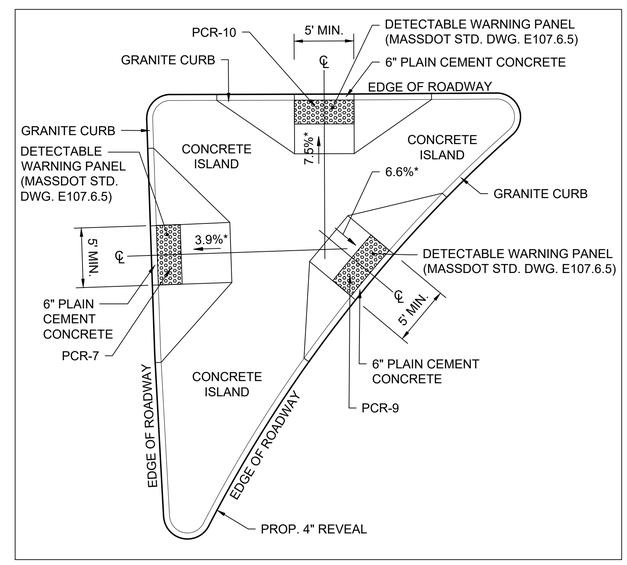
PEDESTRIAN CURB RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL



PCR #	RAMP REFERENCE POINT			WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET			LEFT SIDE	RIGHT SIDE
2	LONGMEADOW RD	503+88	45.73' RT	5'-0"	1.00%	6'-6"	6'-6"
3	ROUTE 44	115+25	37.50' RT	5'-0"	-1.60%	6'-6"	6'-6"
6	LONGMEADOW RD	503+84	26.22' RT	5'-0"	-1.00%	6'-6"	6'-6"
7	LONGMEADOW RD	503+86	21.50' LT	5'-0"	1.40%	6'-6"	6'-6"
9	LONGMEADOW RD	503.88	40.14' LT	5'-0"	-1.20%	6'-6"	6'-6"
10	ROUTE 44	116+02	37.50' RT	5'-0"	-1.40%	6'-6"	6'-6"

***AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

PEDESTRIAN CURB RAMP ON CONCRETE ISLAND WITH DETECTABLE WARNING PANEL



LEGEND

* = TOLERANCE FOR CONSTRUCTION ±0.5%

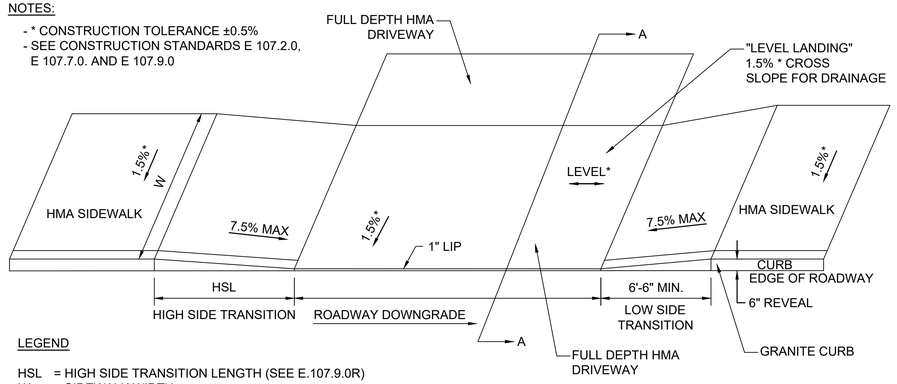
606024_HD_(WCR).DWG Plotted on 26-Aug-2022 6:01 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	138	185
PROJECT FILE NO.	606024		

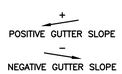
PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS

NOTES:
- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0

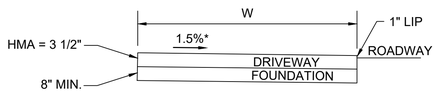


LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E.107.9.0R)
W = SIDEWALK WIDTH
= TOLERANCE FOR CONSTRUCTION ±0.5%
= SEE E 107.9R FOR TRANSITION LENGTH
HMA = HOT MIX ASPHALT



SIDEWALK THICKNESS AS DRIVEWAYS



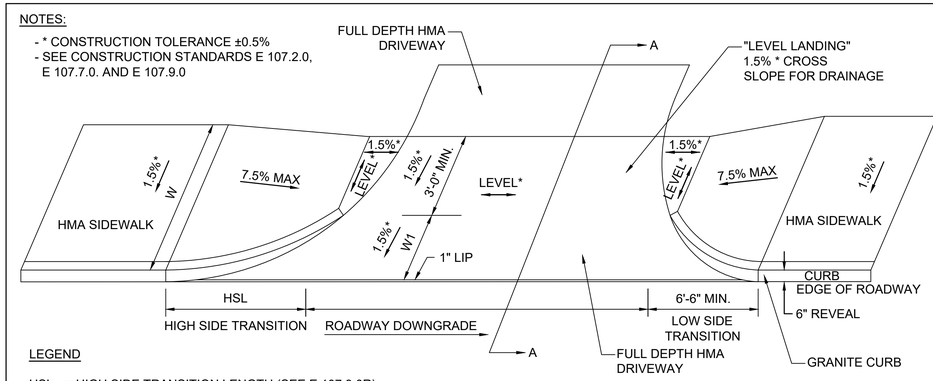
SECTION A-A

DWY #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET					LEFT SIDE	RIGHT SIDE
1	ROUTE 44	101+39	20.0' LT	6'-0"	20'-2"	6'-0"	-0.40%	7'-8"	6'-6"
2	ROUTE 44	102+27	20.0' LT	6'-0"	20'-11"	6'-0"	-0.40%	7'-8"	6'-6"
3	ROUTE 44	102+80	20.0' LT	6'-0"	28'-3"	6'-0"	-0.40%	7'-8"	6'-6"
4	ROUTE 44	103+70	20.0' LT	6'-0"	39'-6"	6'-0"	-0.40%	7'-8"	6'-6"
14	ROUTE 44	131+14	27.0' LT	8'-0"	19'-11"	8'-0"	-0.55%	7'-8"	6'-6"
17	LONGMEADOW RD	498+69	15.0 RT	5'-6"	33'-0"	5'-6"	0.63%	6'-6"	7'-8"
19	LONGMEADOW RD	500+91	21.5 RT	5'-6"	28'-3"	5'-6"	1.40%	6'-6"	9'-0"
20	LONGMEADOW RD	502+06	21.5 RT	5'-6"	20'-0"	5'-6"	2.01%	6'-6"	11'-0"

***AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

HMA SIDEWALK AT DRIVEWAYS WITHOUT CURB RETURNS

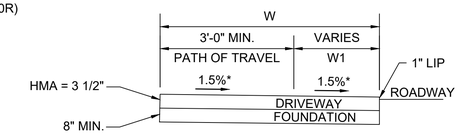
NOTES:
- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E.107.9.0R)
W = SIDEWALK WIDTH
= TOLERANCE FOR CONSTRUCTION ±0.5%
= SEE E 107.9R FOR TRANSITION LENGTH
HMA = HOT MIX ASPHALT

SIDEWALK THICKNESS AS DRIVEWAYS

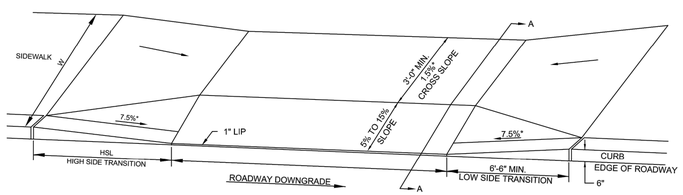


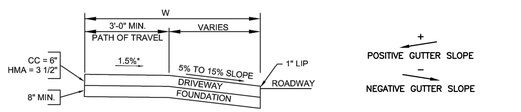
SECTION A-A

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
5	ROUTE 44	105+15	25.0' LT	3'-0"	6'-0"	29'-2"	3'-0"	-0.57%	7'-8"	6'-6"
6	ROUTE 44	105+99	27.5' LT	3'-0"	6'-0"	16'-2"	3'-0"	-0.57%	7'-8"	6'-6"
7	ROUTE 44	107-19	29.0' LT	3'-0"	6'-0"	19'-2"	3'-0"	-0.57%	7'-8"	6'-6"
8	ROUTE 44	109+44	30.1' LT	3'-0"	6'-0"	24'-7"	3'-0"	-0.57%	7'-8"	6'-6"
9	ROUTE 44	110+92	32.2' LT	3'-0"	6'-0"	14'-4"	3'-0"	-0.57%	7'-8"	6'-6"
10	ROUTE 44	112+83	35.0' LT	3'-0"	6'-0"	25'-3"	3'-0"	0.48%	6'-6"	7'-8"
13	ROUTE 44	127+86	27.0' LT	3'-0"	8'-0"	47'-8"	5'-0"	0.45%	6'-6"	7'-8"
15	ROUTE 44	135+28	27.0' LT	3'-0"	8'-0"	38'-5"	5'-0"	-0.78%	7'-8"	6'-6"
16	ROUTE 44	135+95	27.0' RT	3'-0"	6'-0"	28'-4"	3'-0"	0.78%	6'-6"	7'-8"

***AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

HMA SIDEWALK AT DRIVEWAYS WITH CURB RETURNS





SECTION A-A

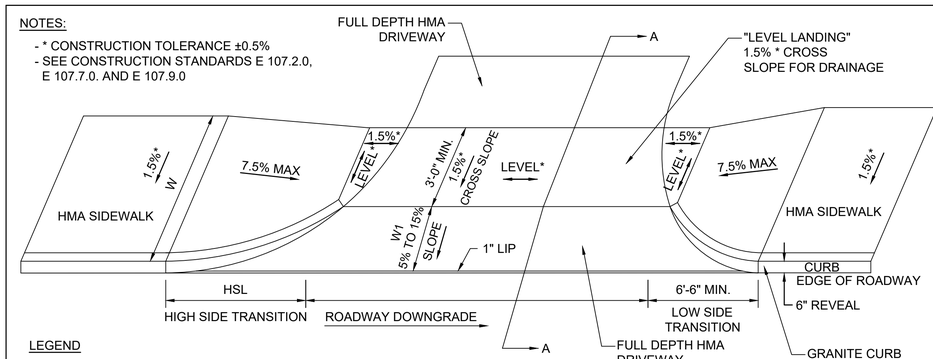
LEGEND
HSL = HIGH SIDE TRANSITION LENGTH. SEE E 107.9.0
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION ±0.5%
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
18	LONGMEADOW RD	499+95	19.6 RT	2'-6"	5'-6"	23'-0"	3'-0"	0.63%	6'-6"	7'-8"

***AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

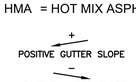
CEMENT CONCRETE SIDEWALK AT DRIVEWAYS WITHOUT CURB RETURNS

NOTES:
- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0

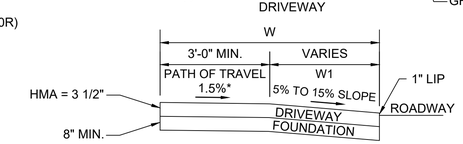


LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E.107.9.0R)
W = SIDEWALK WIDTH
= TOLERANCE FOR CONSTRUCTION ±0.5%
= SEE E 107.9R FOR TRANSITION LENGTH
HMA = HOT MIX ASPHALT



SIDEWALK THICKNESS AS DRIVEWAYS



SECTION A-A

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
11	ROUTE 44	118+88	35.5' LT	2'-6"	6'-0"	30'-9"	3'-6"	-0.68%	7'-8"	6'-6"
12	ROUTE 44	120+66	33.4' LT	2'-6"	6'-0"	35'-9"	3'-6"	-0.68%	7'-8"	6'-6"

***AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

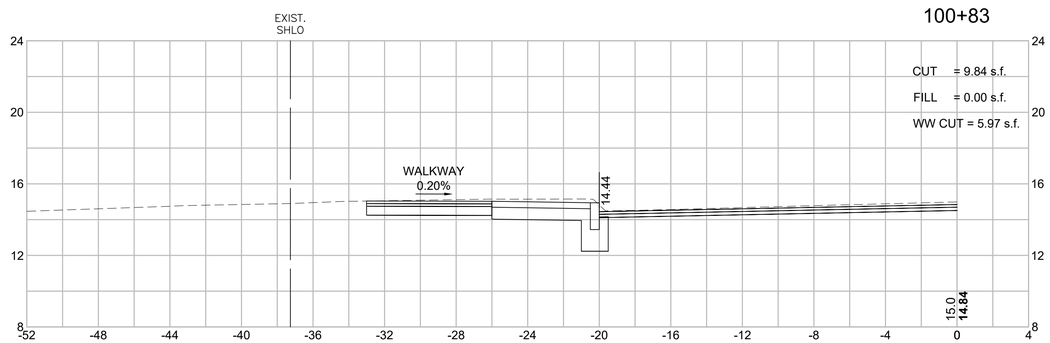
HMA SIDEWALK AT DRIVEWAYS WITH CURB RETURNS

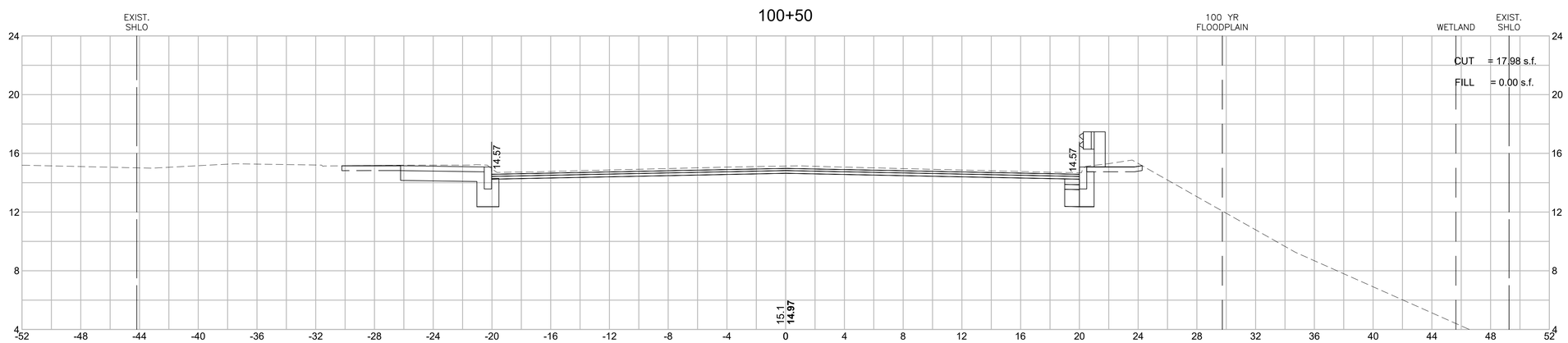
606024_HD_(WCR).DWG Plotted on 26-Aug-2022 6:01 PM

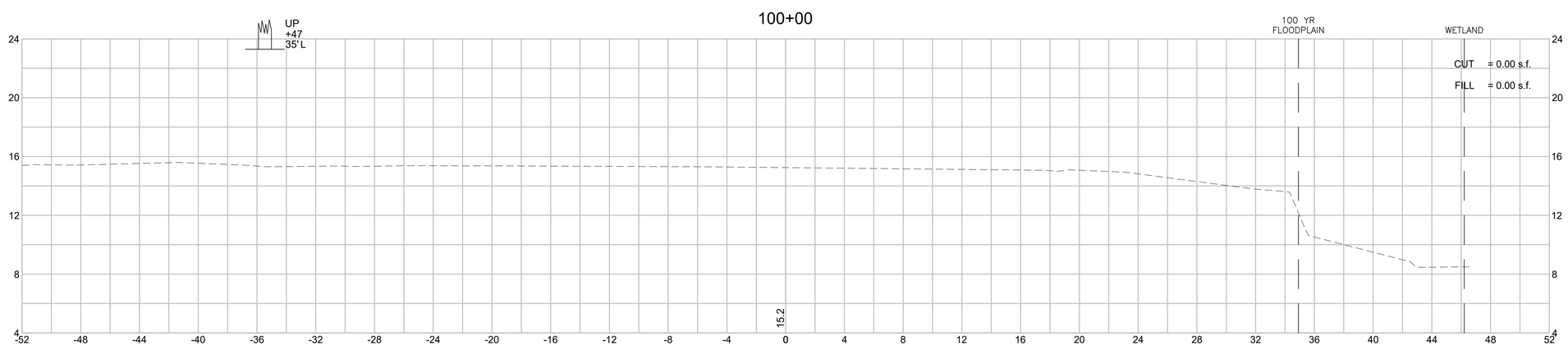
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	139	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

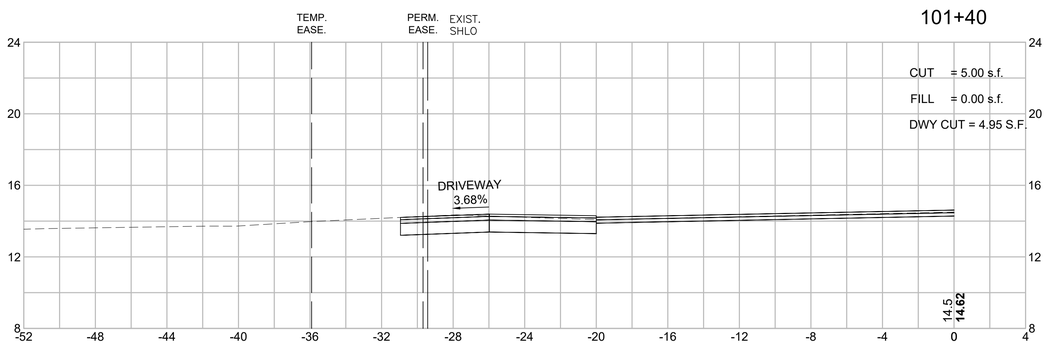
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:02 PM

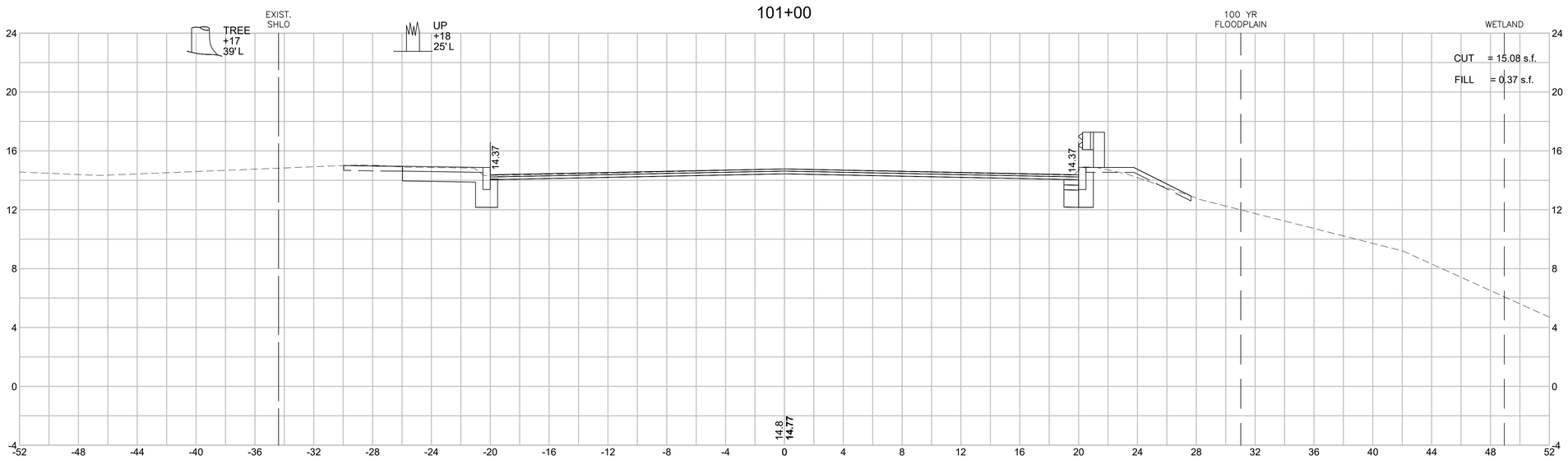
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	140	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:02 PM





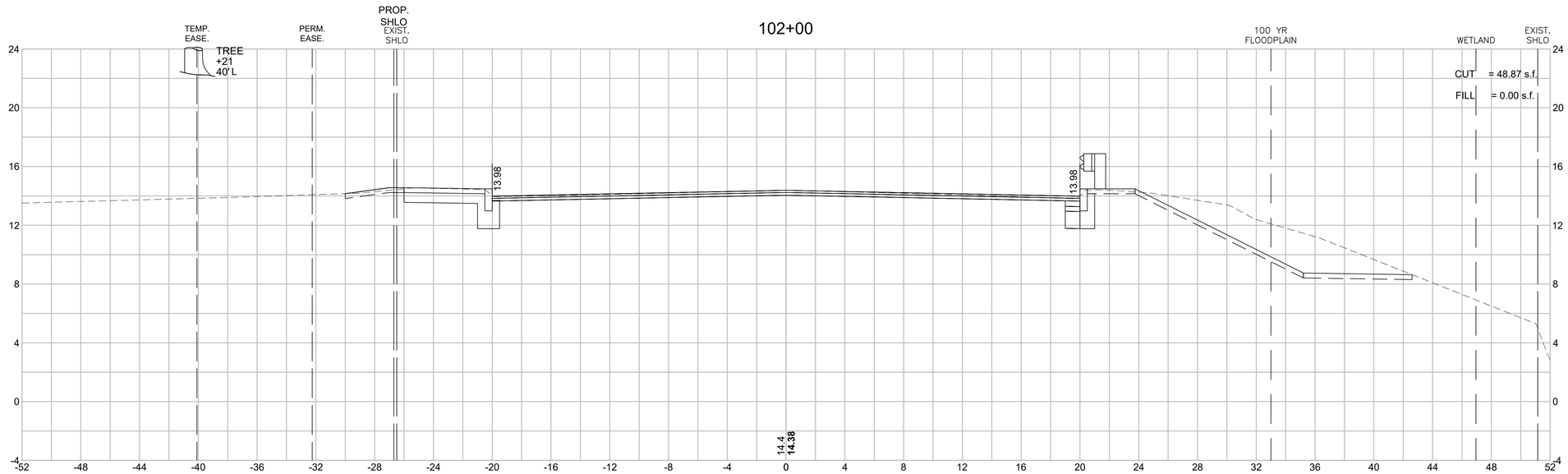
HOR. SCALE IN FEET
VER. SCALE IN FEET

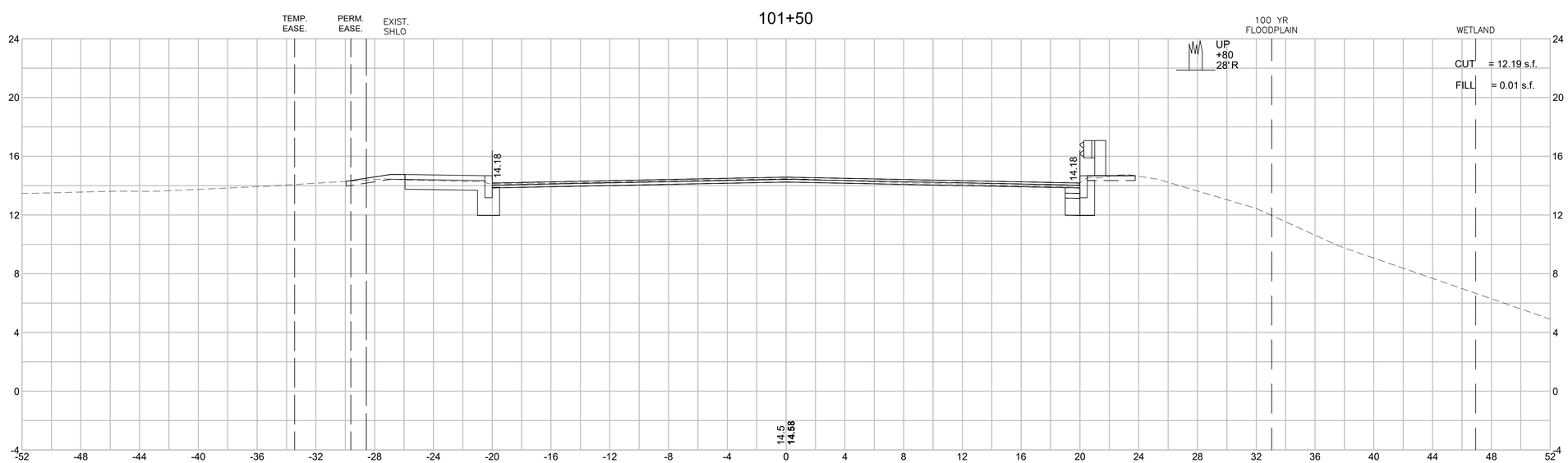
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	141	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:02 PM





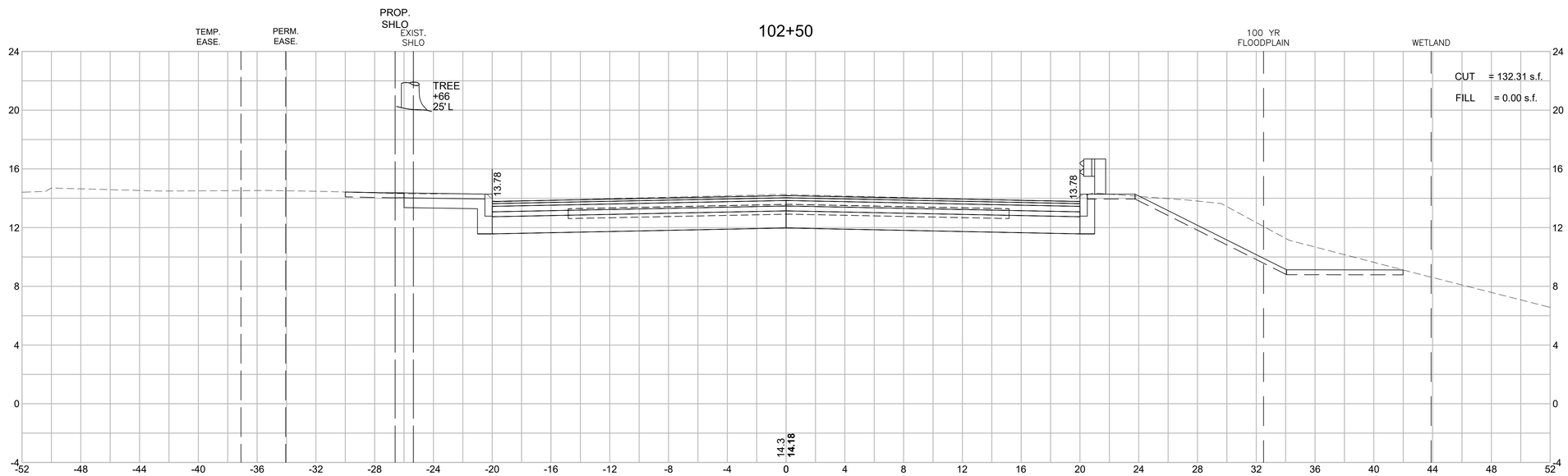
HOR. SCALE IN FEET
VER. SCALE IN FEET

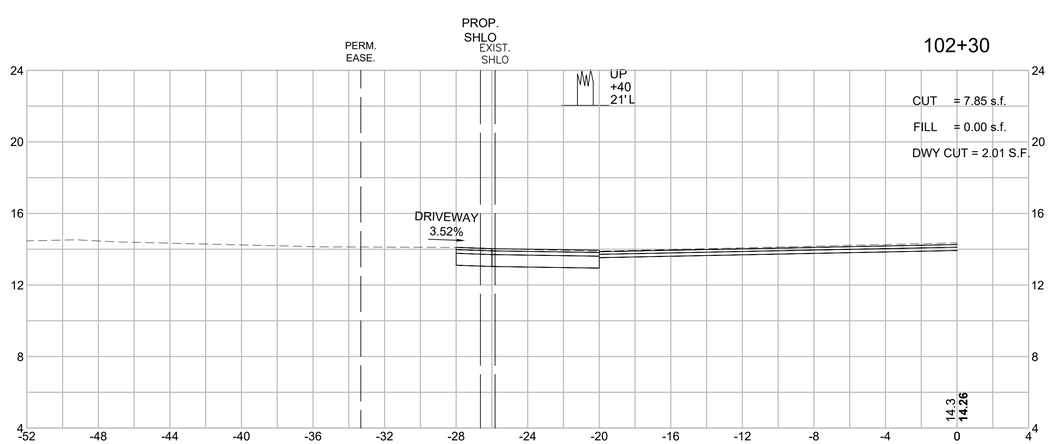
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	142	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:02 PM



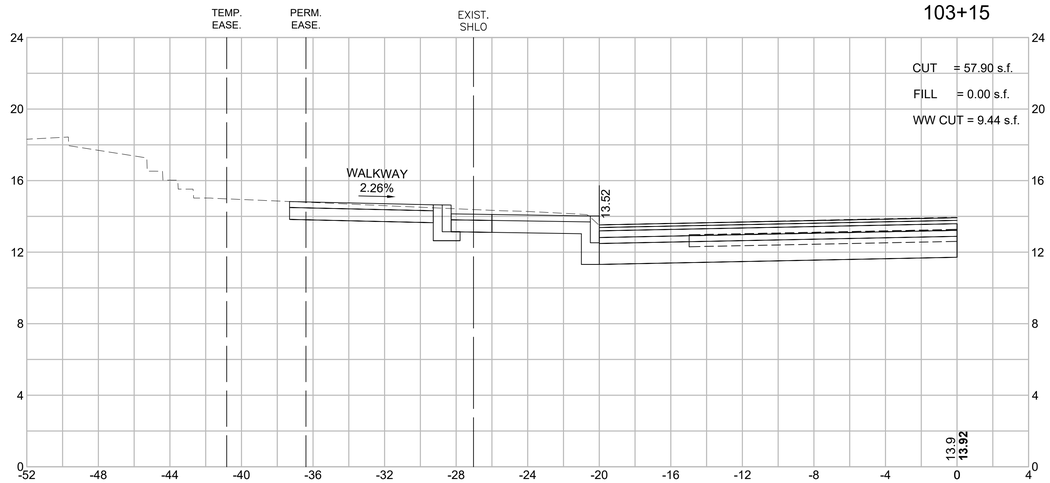


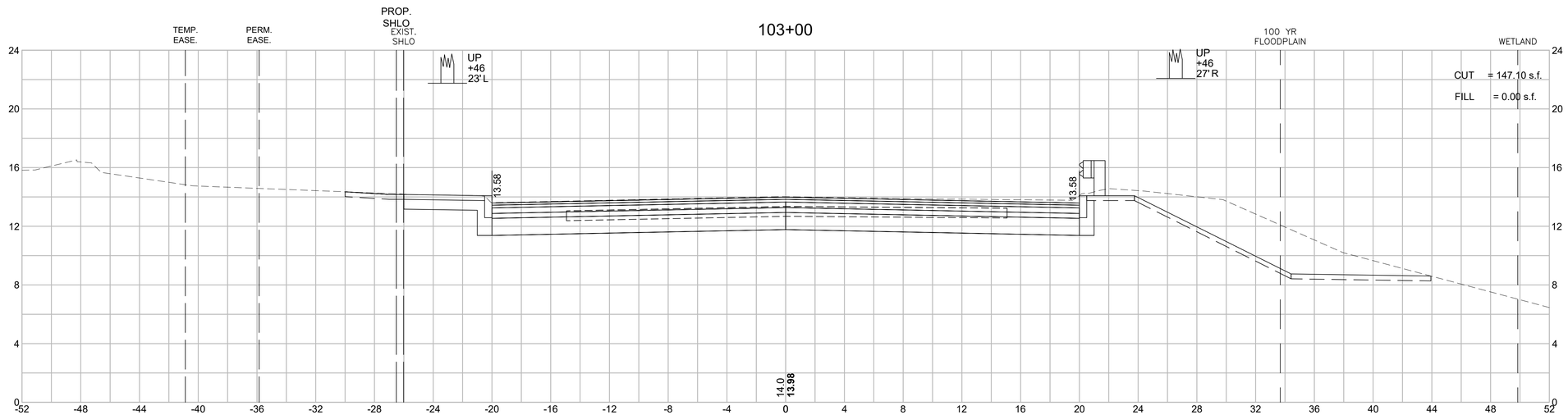
HOR. SCALE IN FEET
VER. SCALE IN FEET

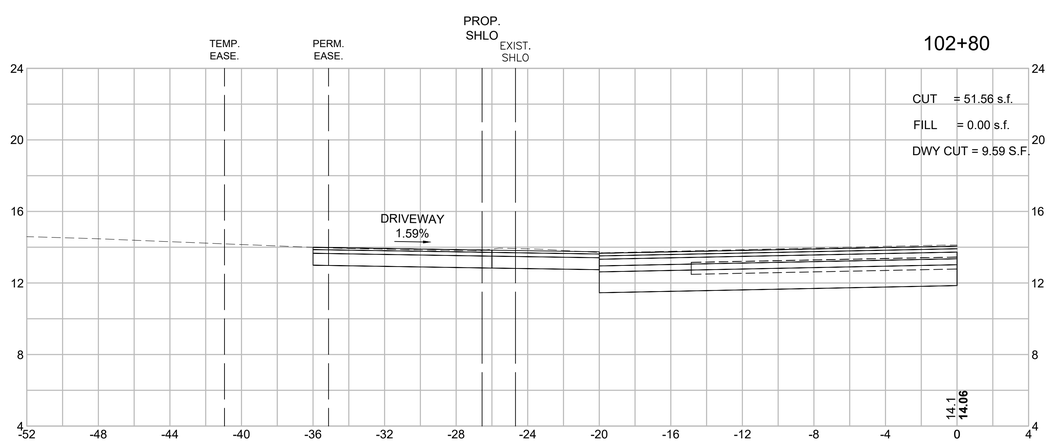
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	143	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

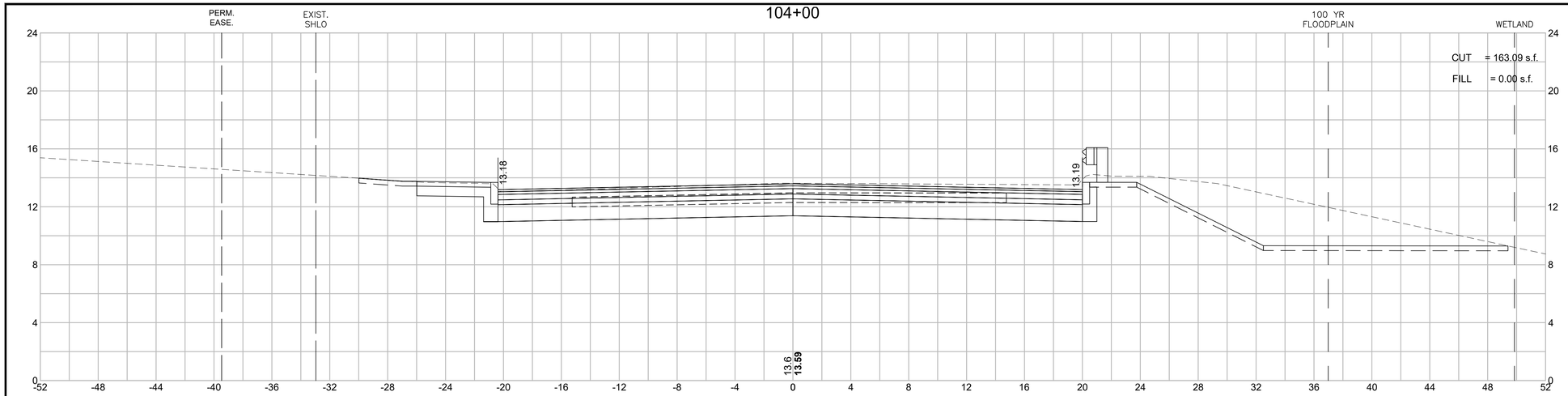


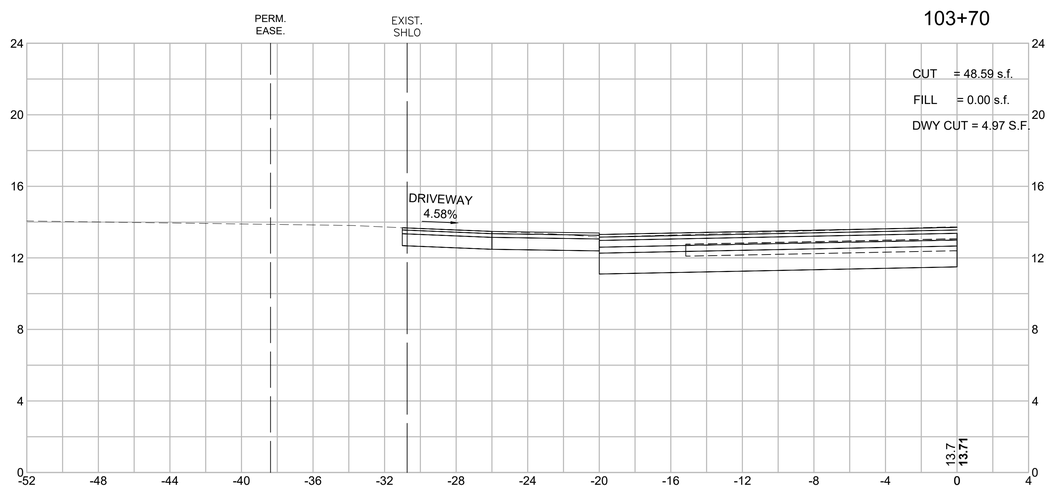


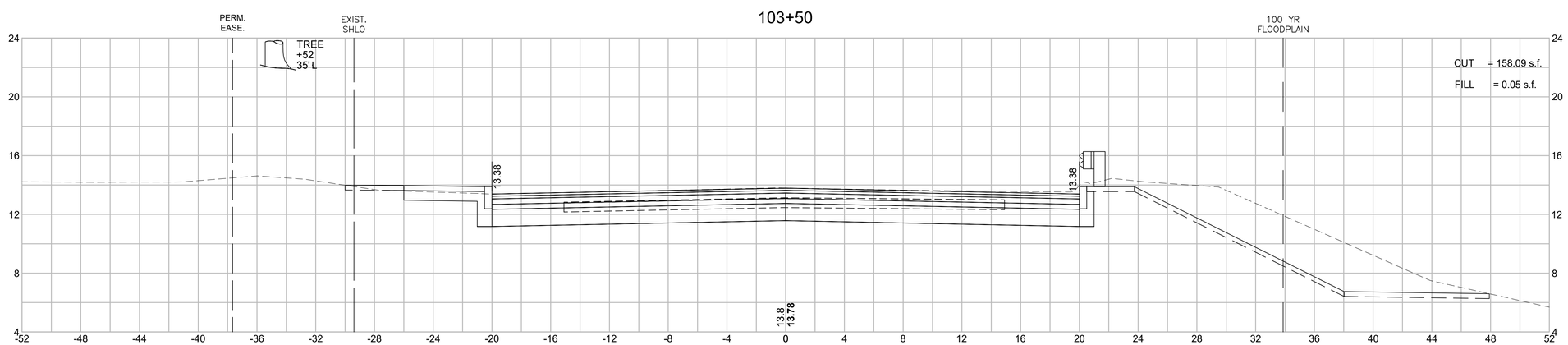


HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:02 PM







TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	144	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

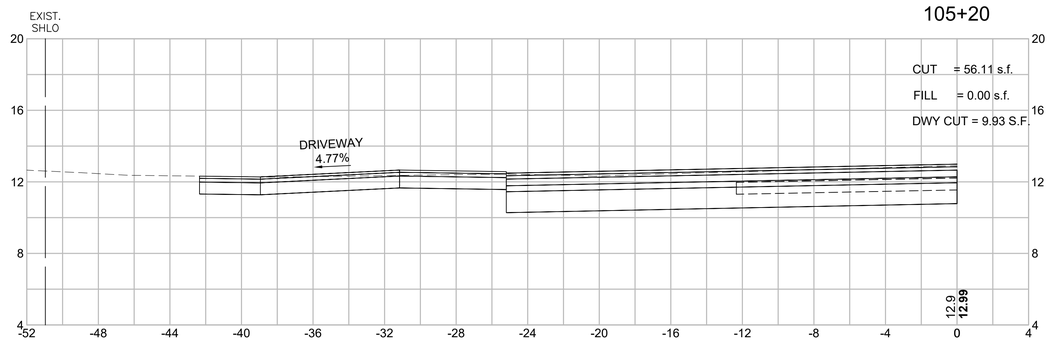
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

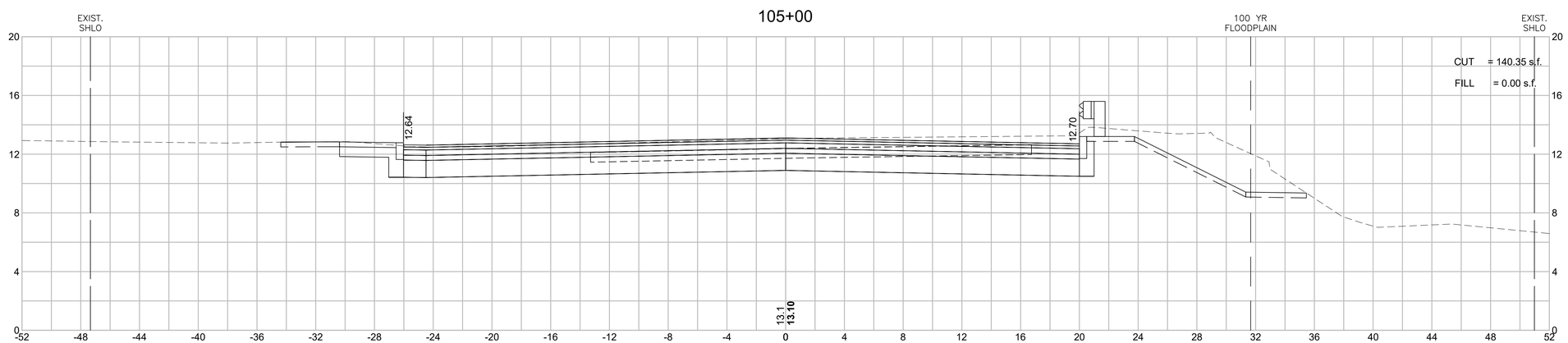
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:03 PM

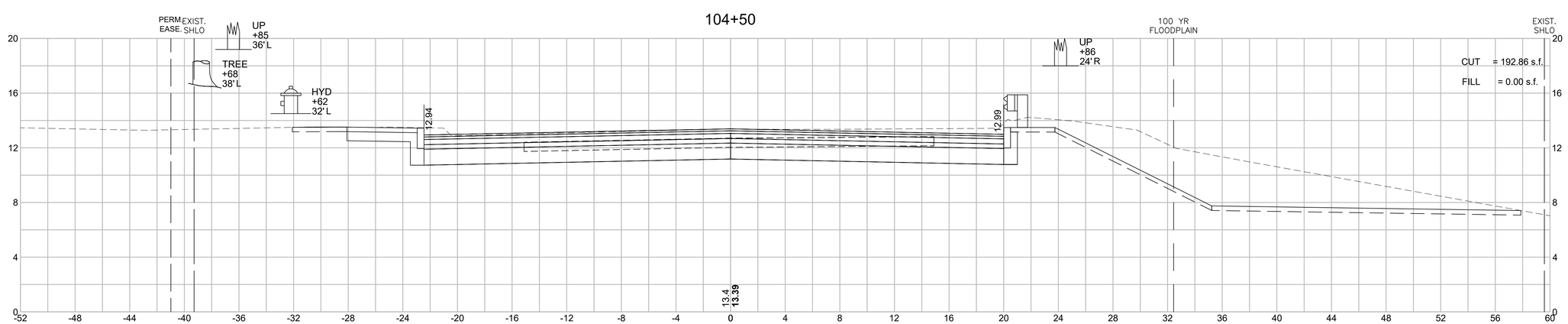
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	145	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







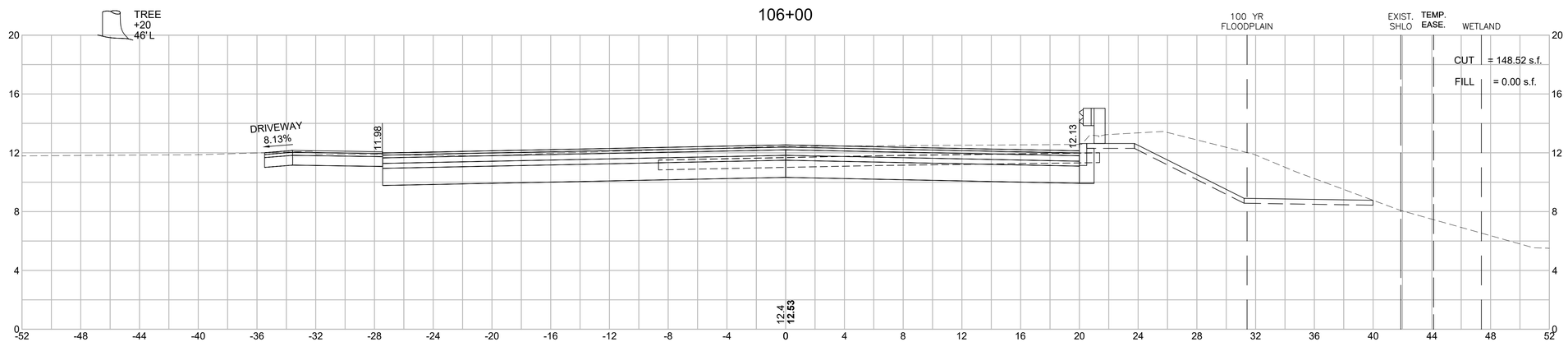
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

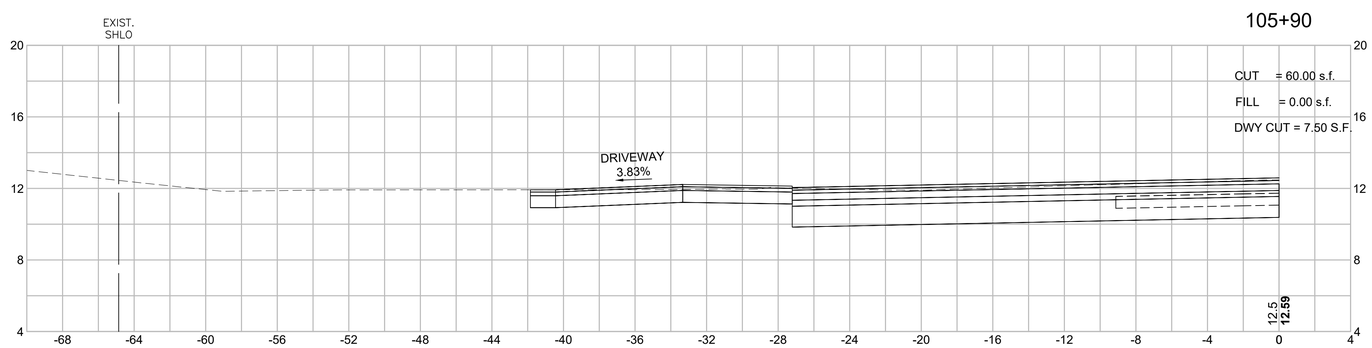
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:03 PM

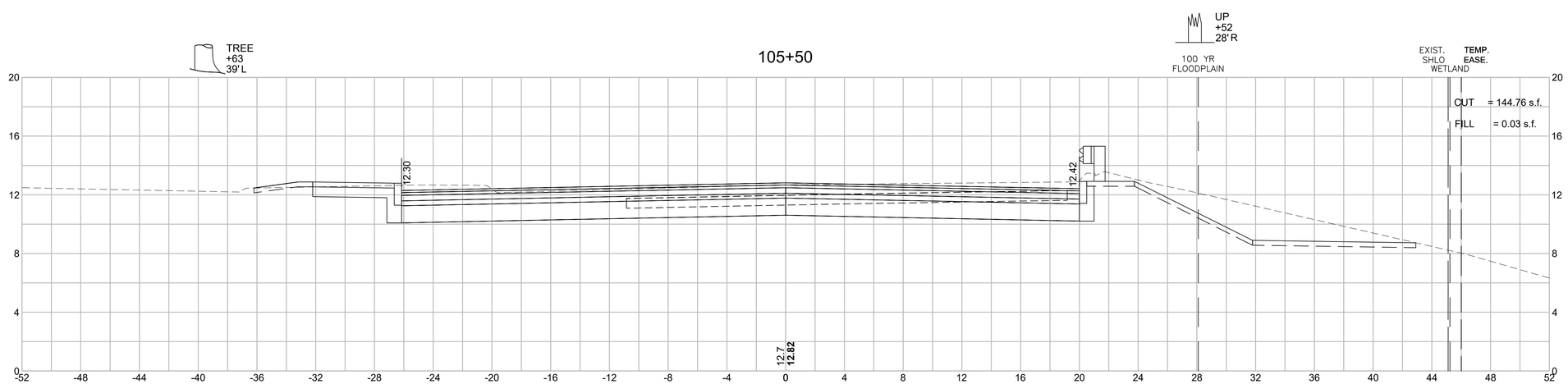
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	146	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

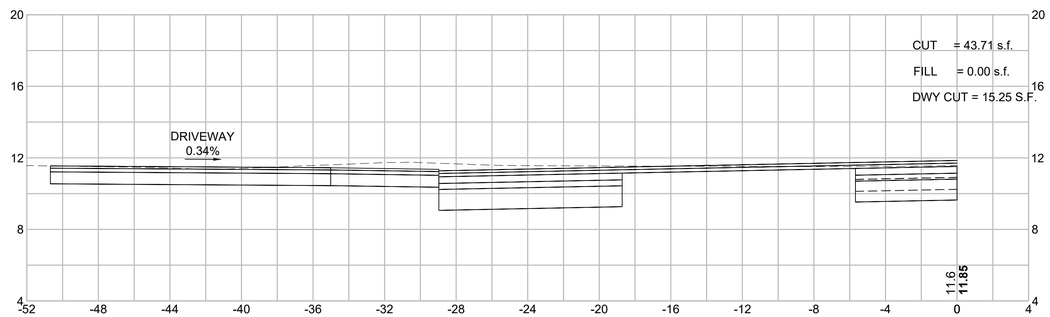
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:03 PM

TAUNTON
ROUTE 44 (DEAN STREET)

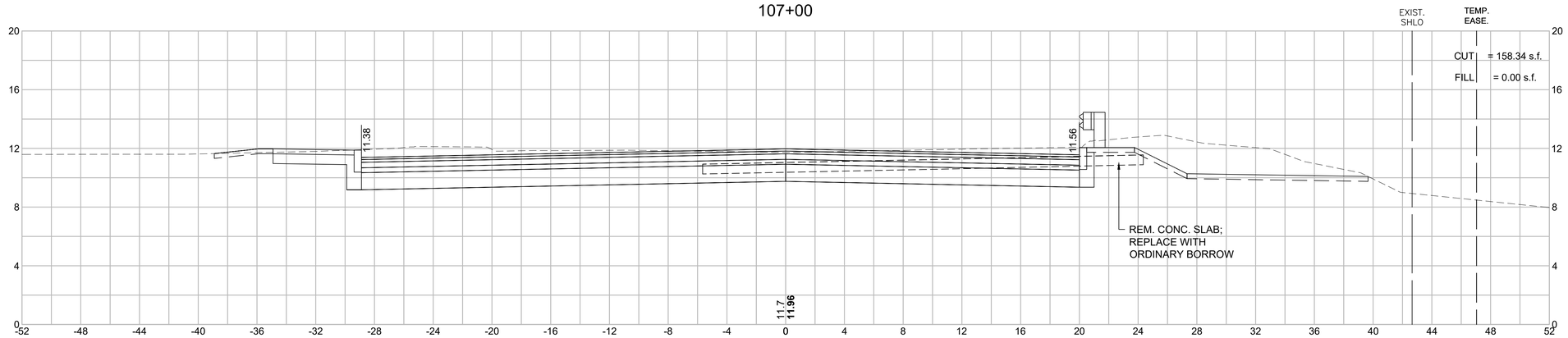
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	147	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

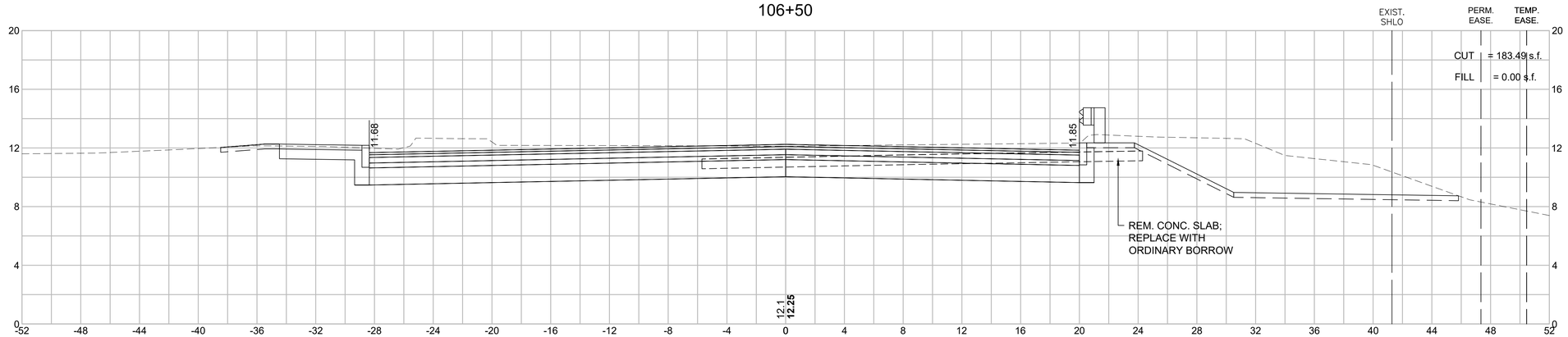
107+19



107+00



106+50



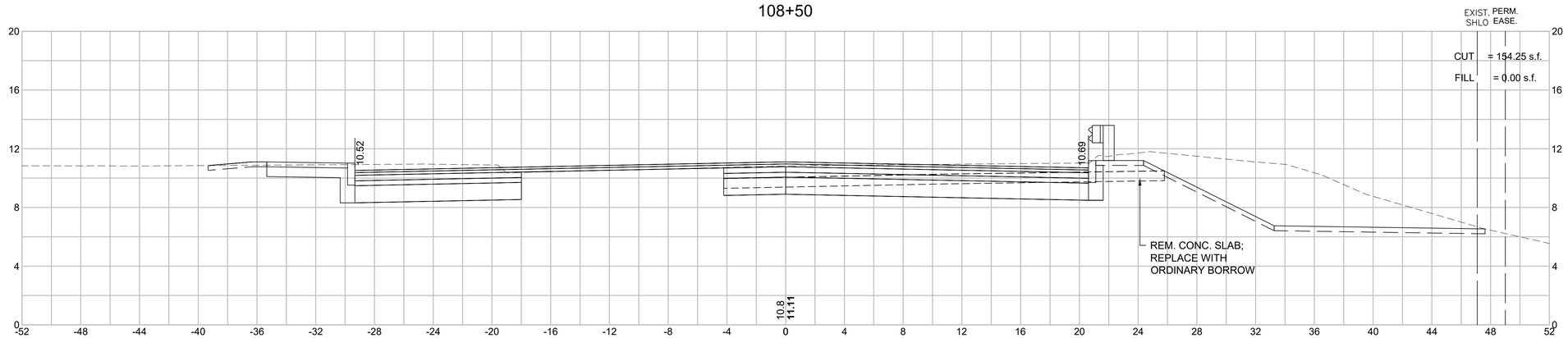
HOR. SCALE IN FEET
VER. SCALE IN FEET

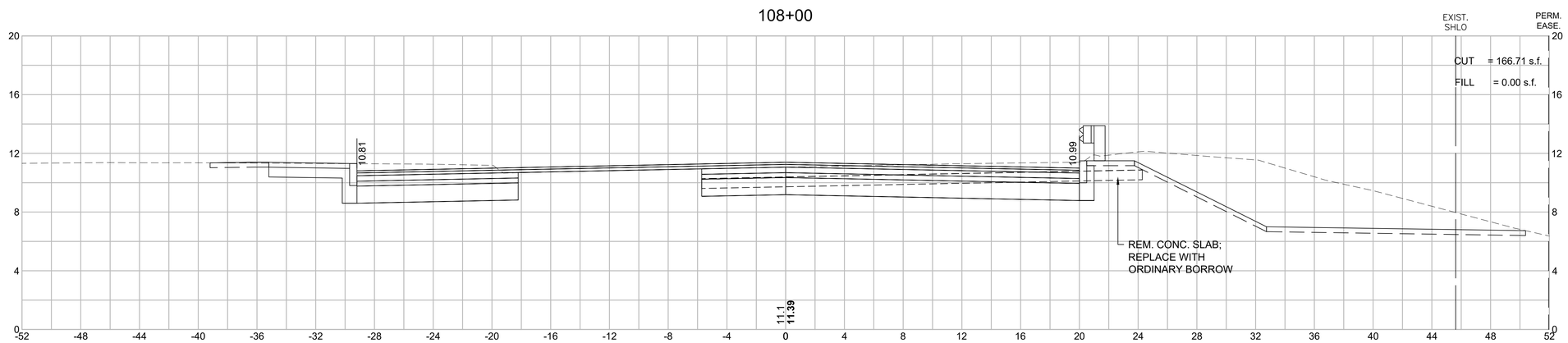
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:03 PM

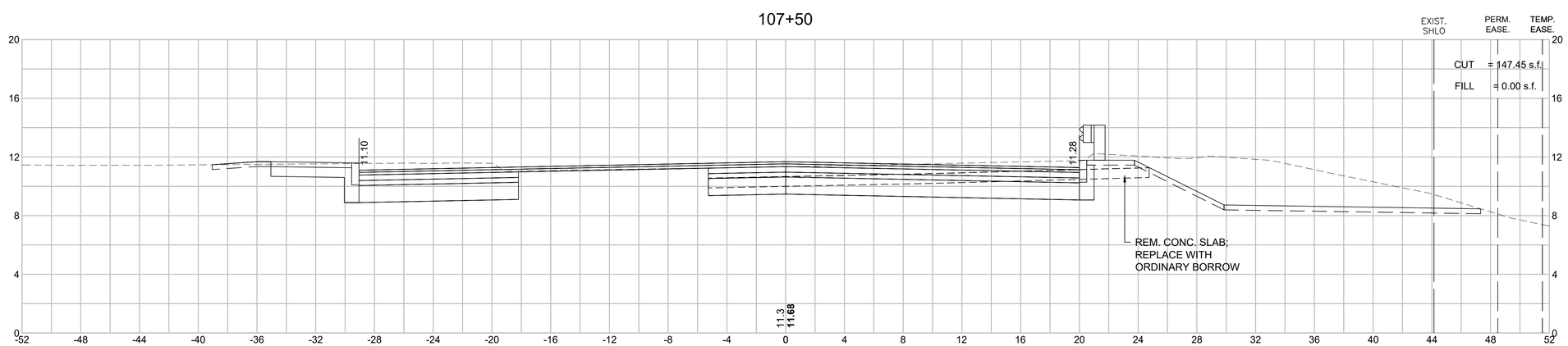
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	148	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

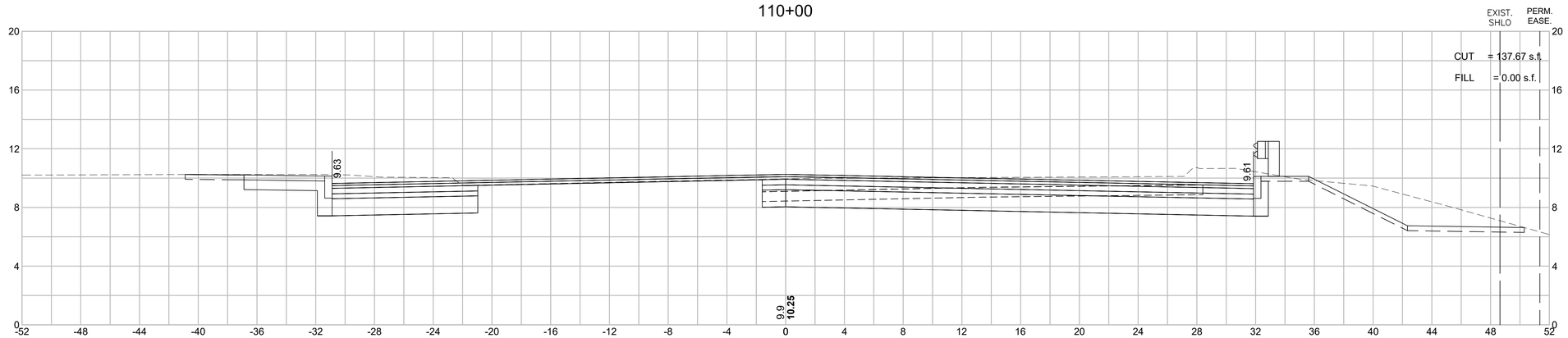
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:04 PM

TAUNTON
ROUTE 44 (DEAN STREET)

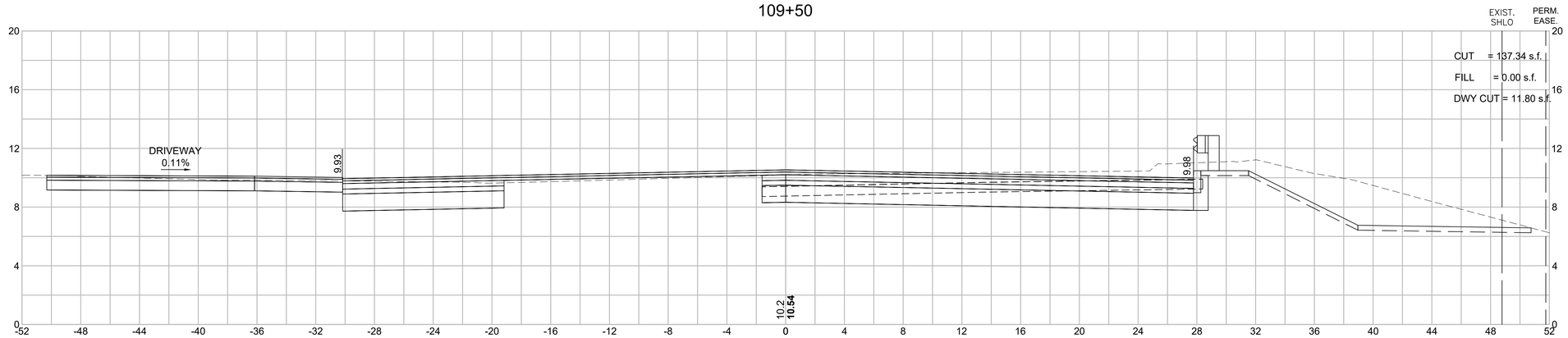
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	149	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

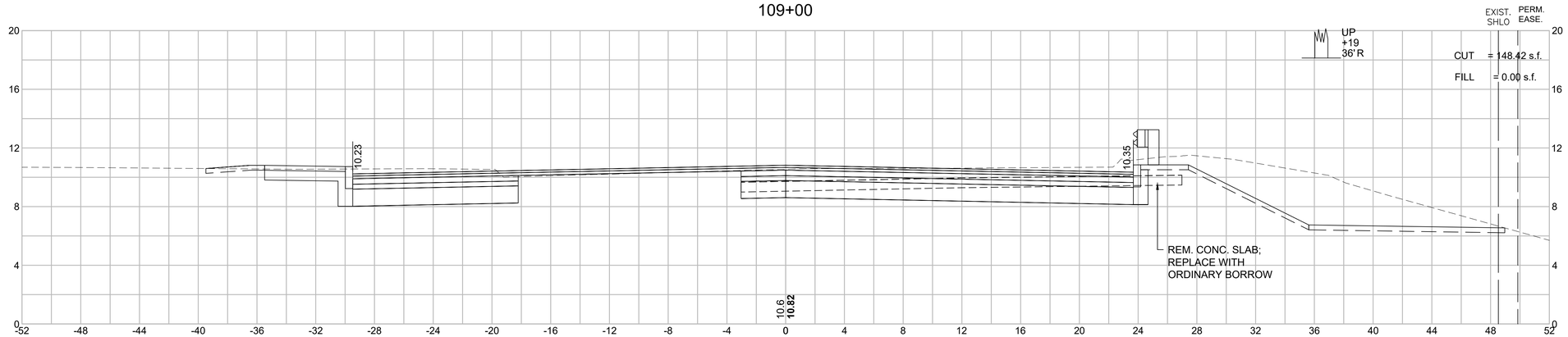
110+00



109+50



109+00



HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:04 PM

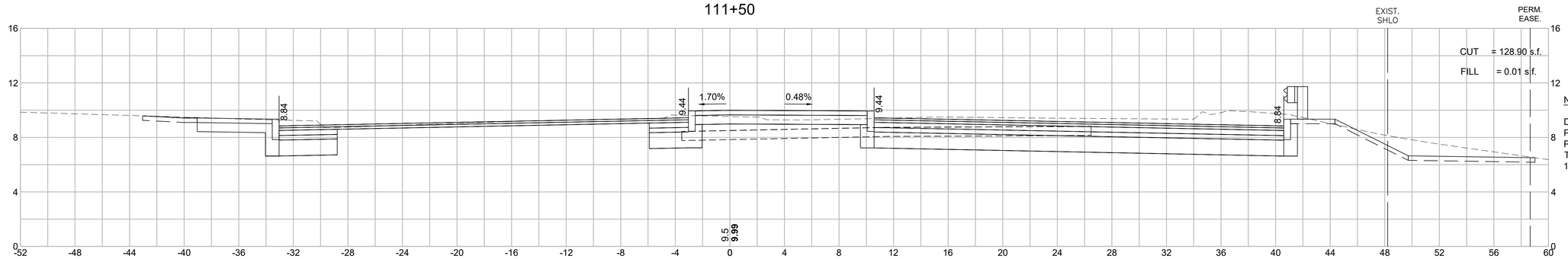
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	150	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:04 PM

111+50

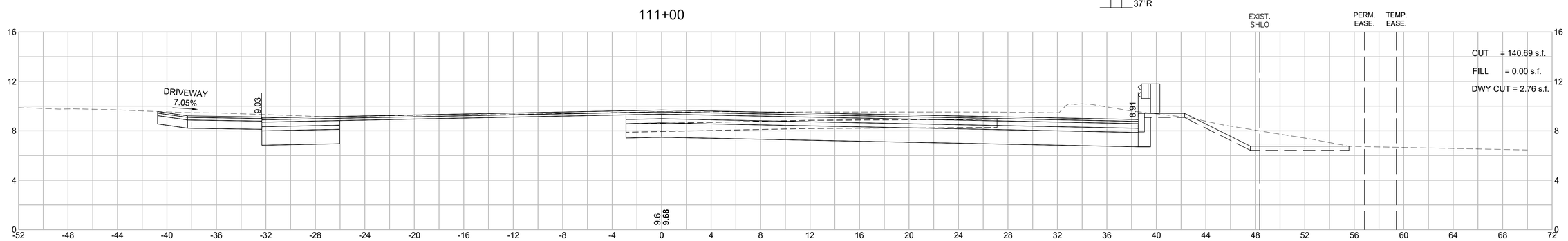


CUT = 128.90 s.f.
FILL = 0.01 s.f.

NOTE:

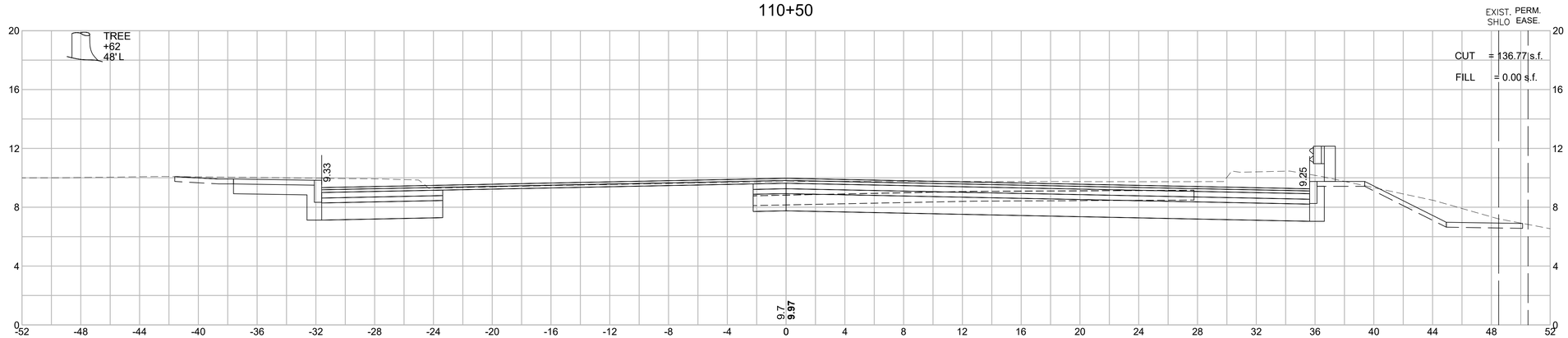
DUE TO THE PRESENCE OF THE RAISED ISLAND, PROPOSED GRADE LINE ELEVATIONS ON THE PROFILE DO NOT MATCH THE ELEVATIONS ON THE CROSS SECTIONS (STA. 111+19 TO STA. 113+67), SEE SHEET 48 FOR GRADES.

111+00



CUT = 140.69 s.f.
FILL = 0.00 s.f.
DWY CUT = 2.76 s.f.

110+50



CUT = 136.77 s.f.
FILL = 0.00 s.f.

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

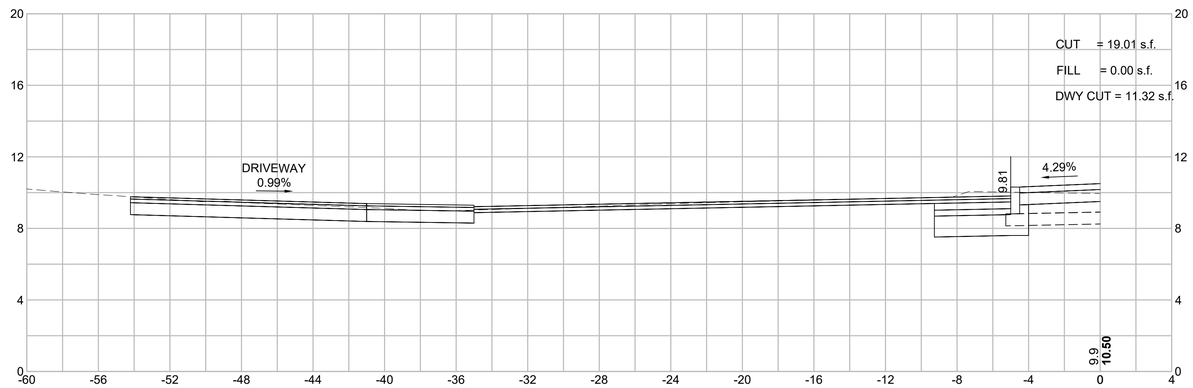
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	151	185
PROJECT FILE NO.	606024		

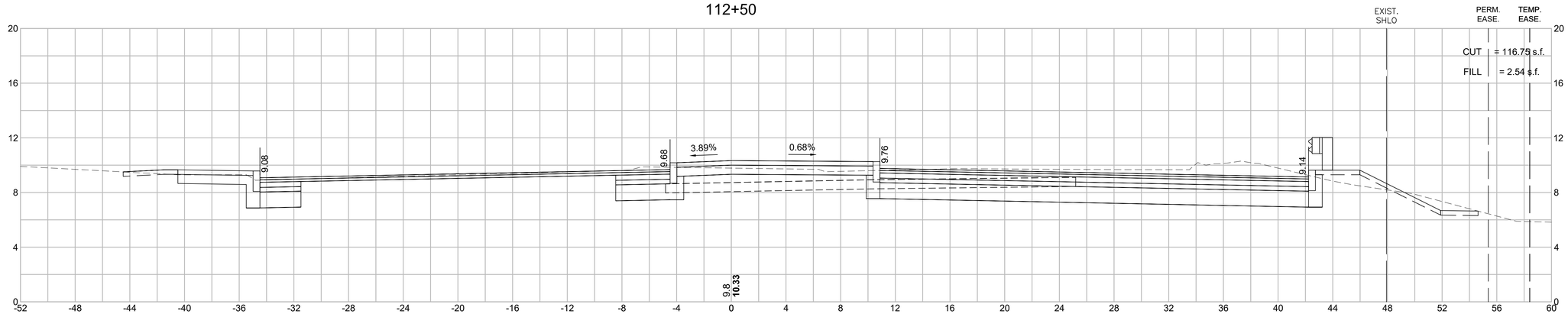
CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:04 PM

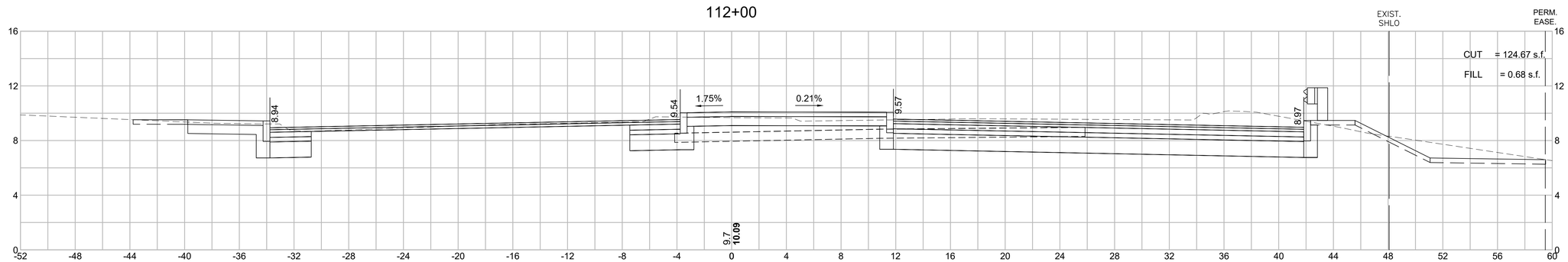
112+86



112+50



112+00



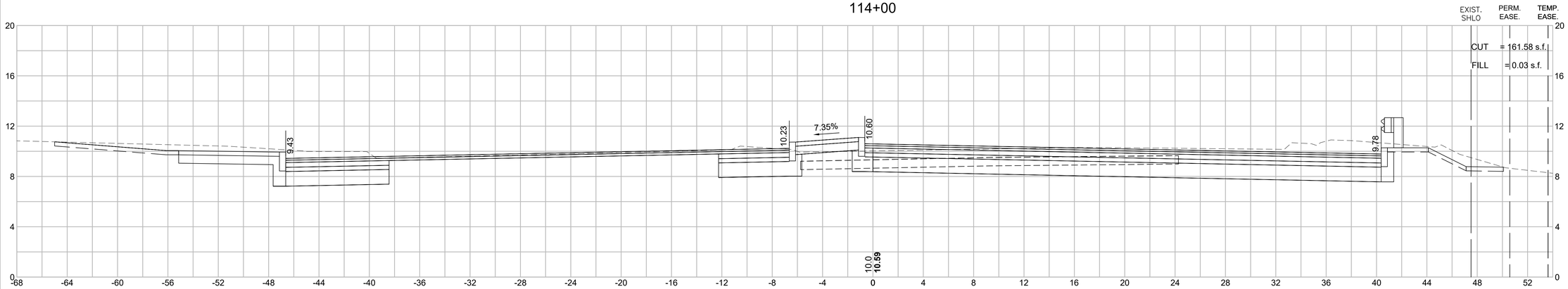
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

TAUNTON
ROUTE 44 (DEAN STREET)

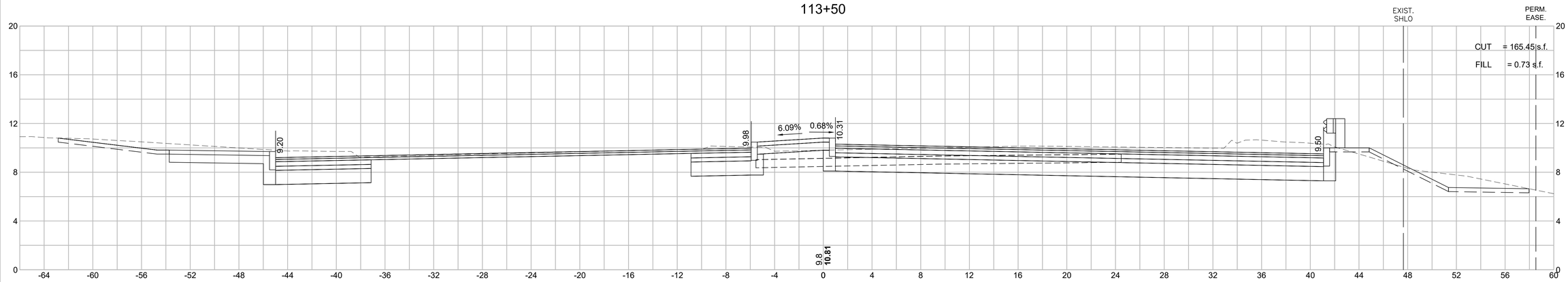
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	152	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

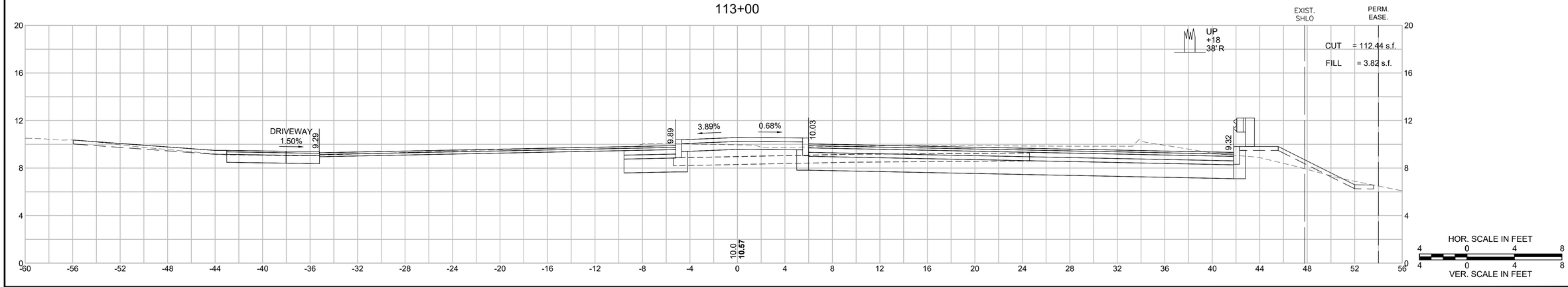
114+00



113+50



113+00



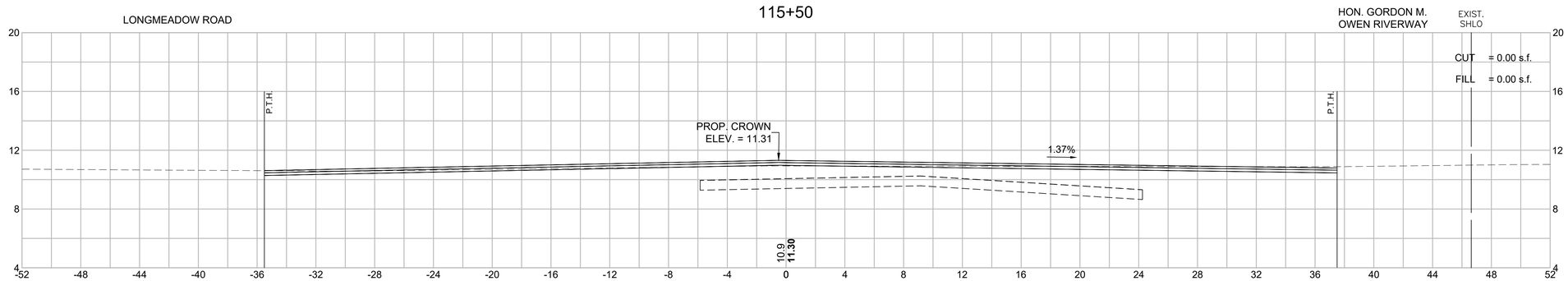
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:05 PM

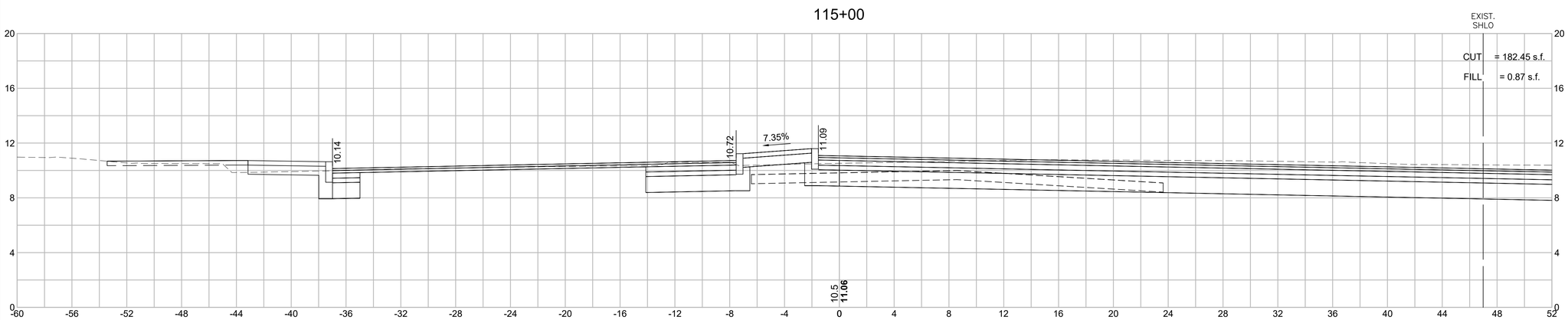
TAUNTON
ROUTE 44 (DEAN STREET)

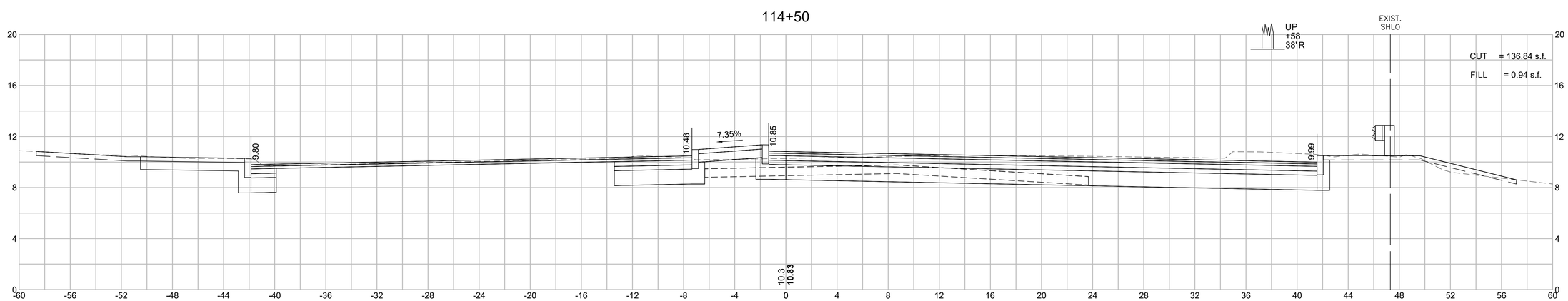
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	153	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET





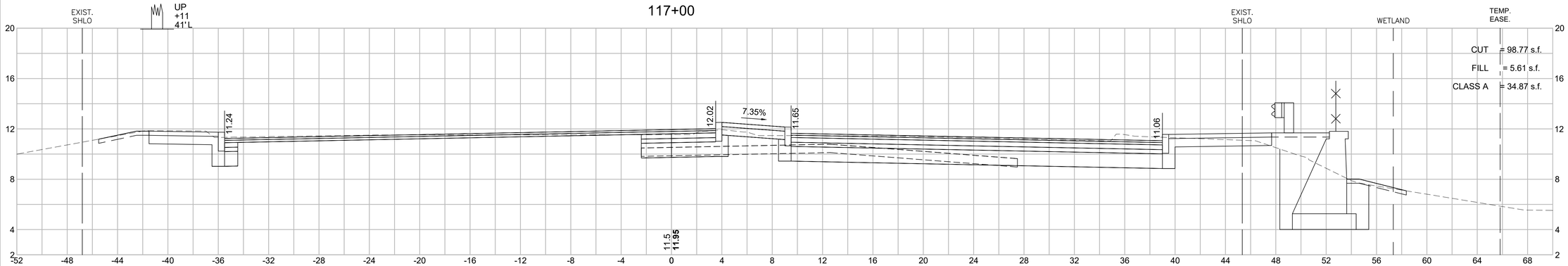


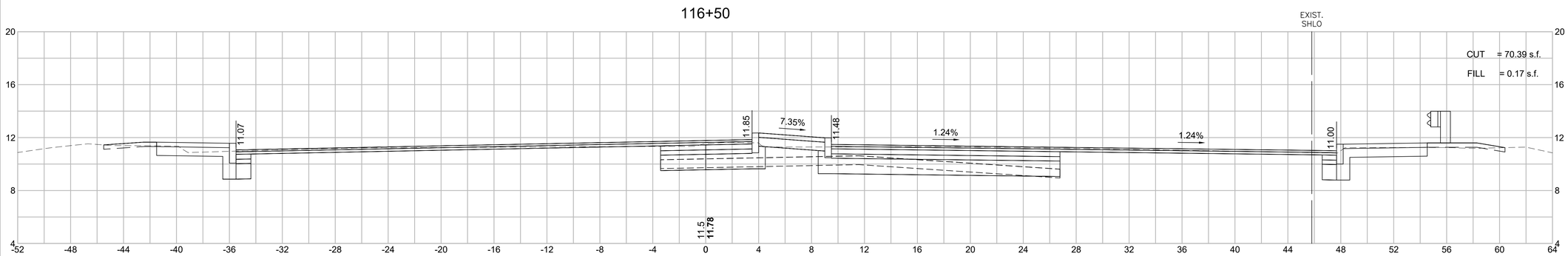
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:05 PM

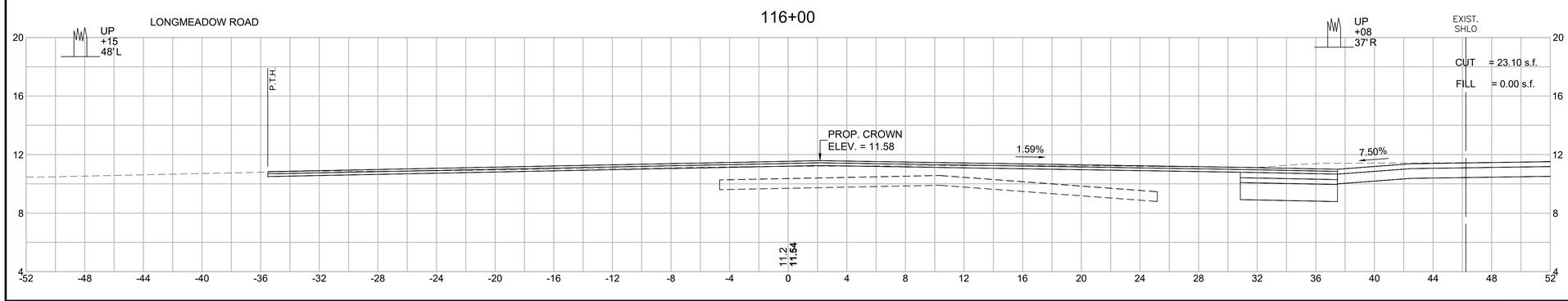
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	154	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
VER. SCALE IN FEET

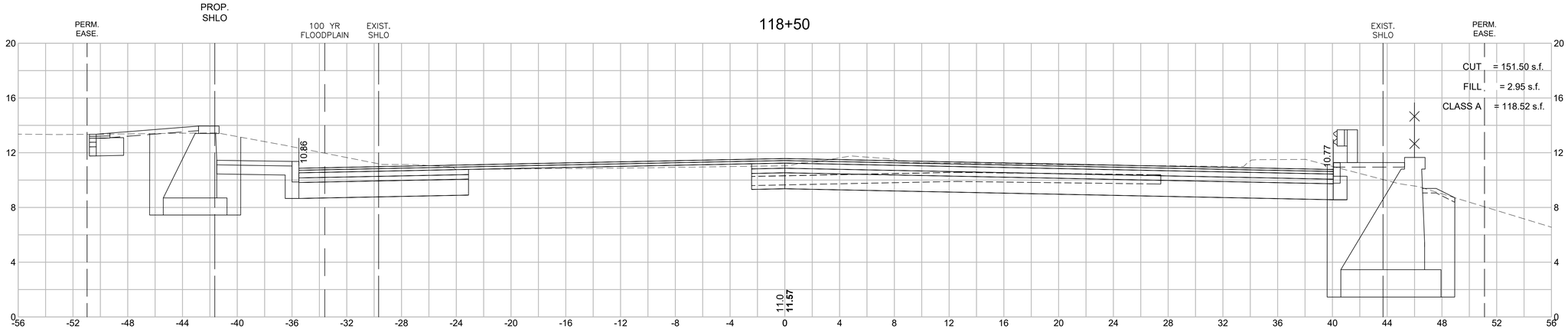
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:05 PM

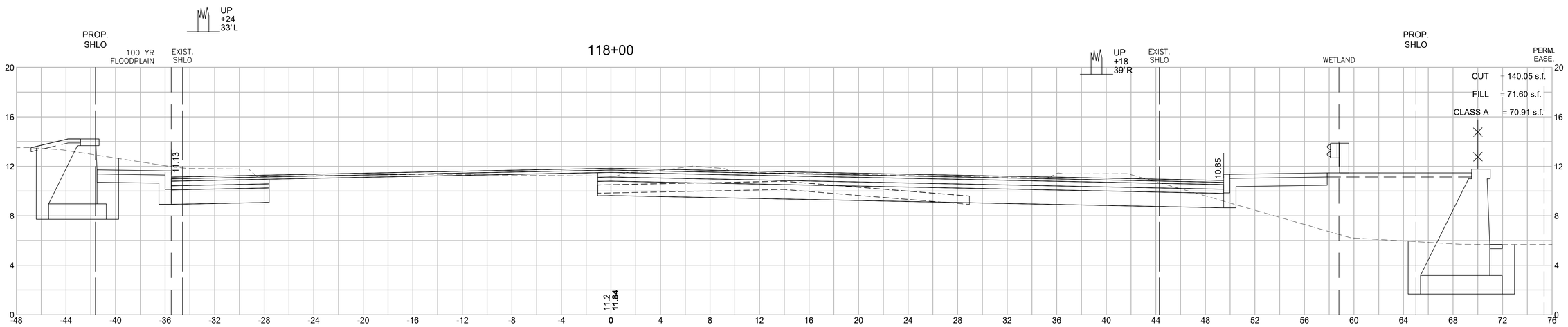
TAUNTON
ROUTE 44 (DEAN STREET)

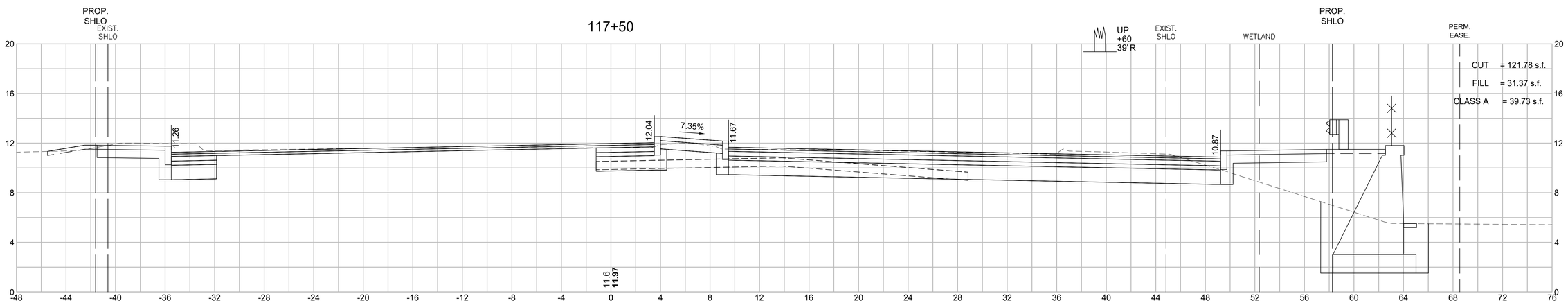
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	155	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET







606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:05 PM

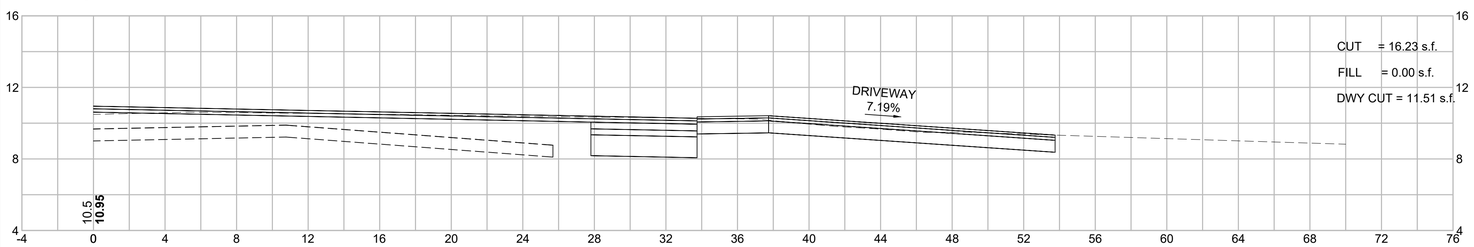
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	156	185
PROJECT FILE NO.	606024		

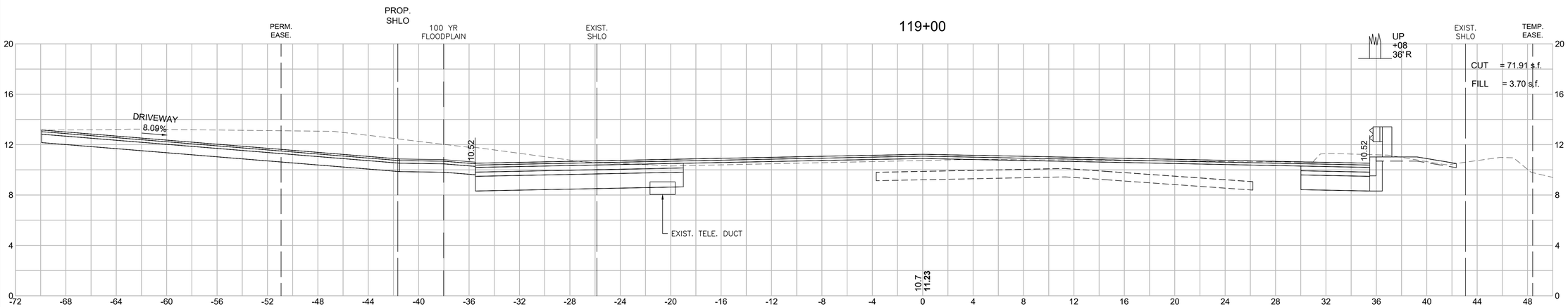
CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:06 PM

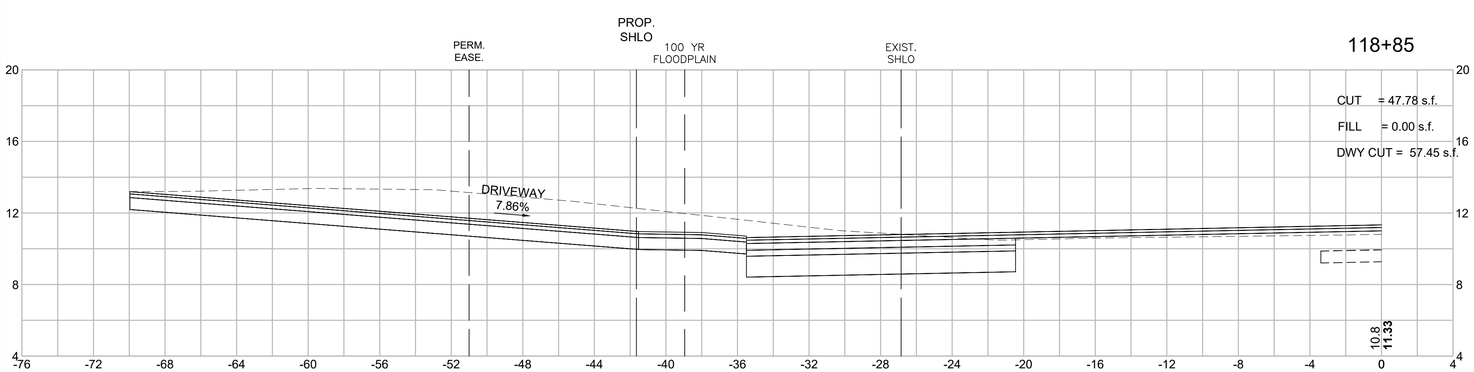
119+42



119+00



118+85



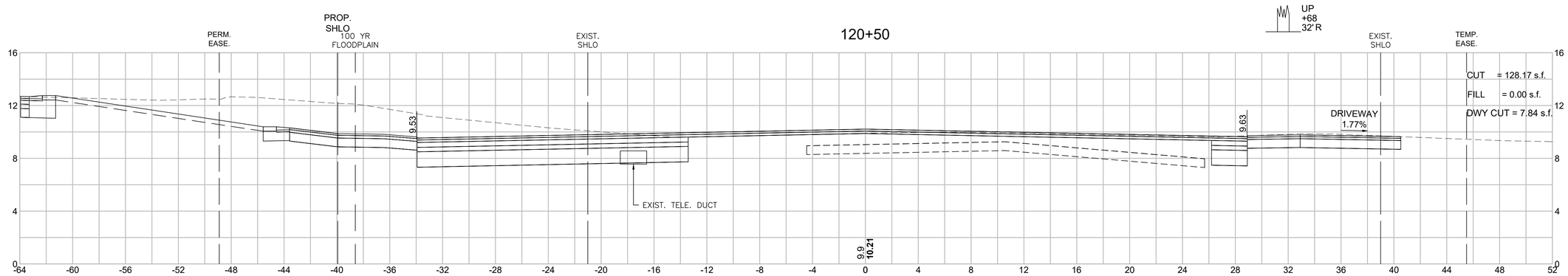
HOR. SCALE IN FEET
VER. SCALE IN FEET

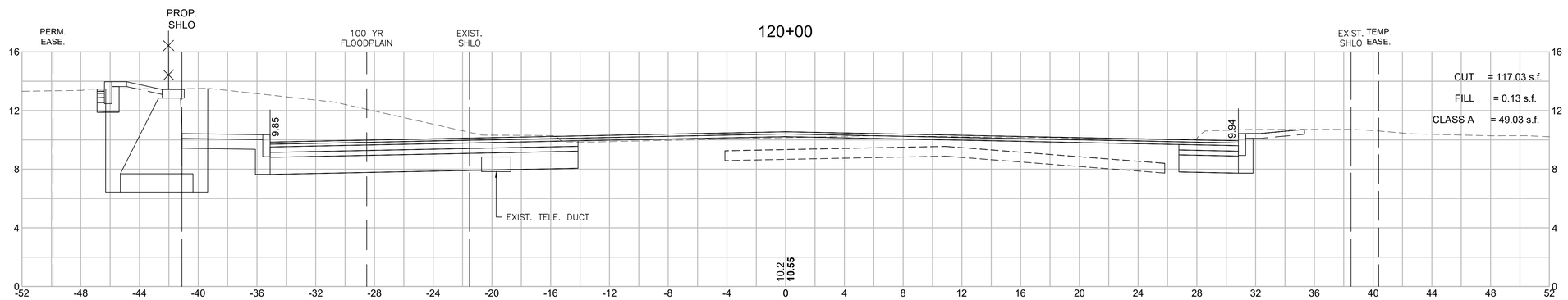
TAUNTON
ROUTE 44 (DEAN STREET)

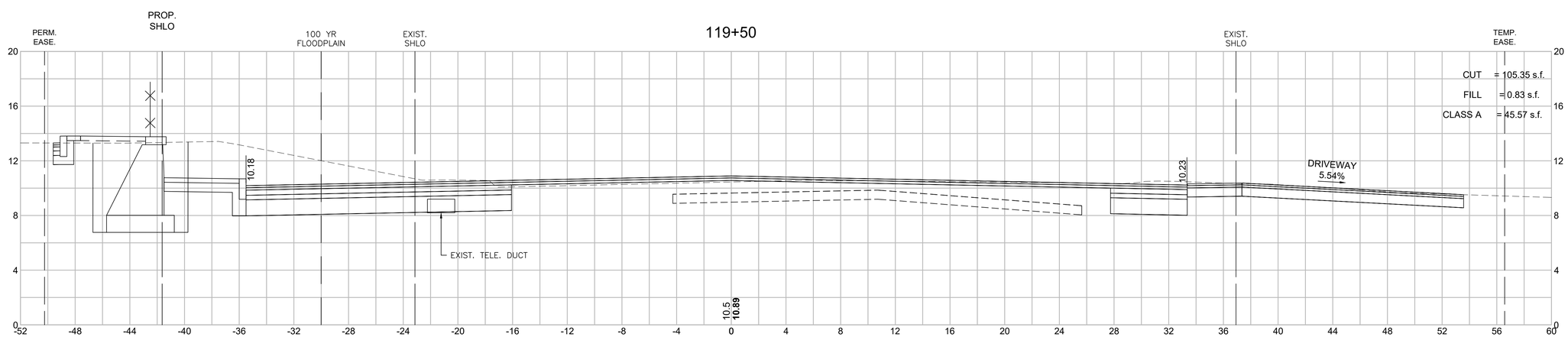
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	157	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:06 PM





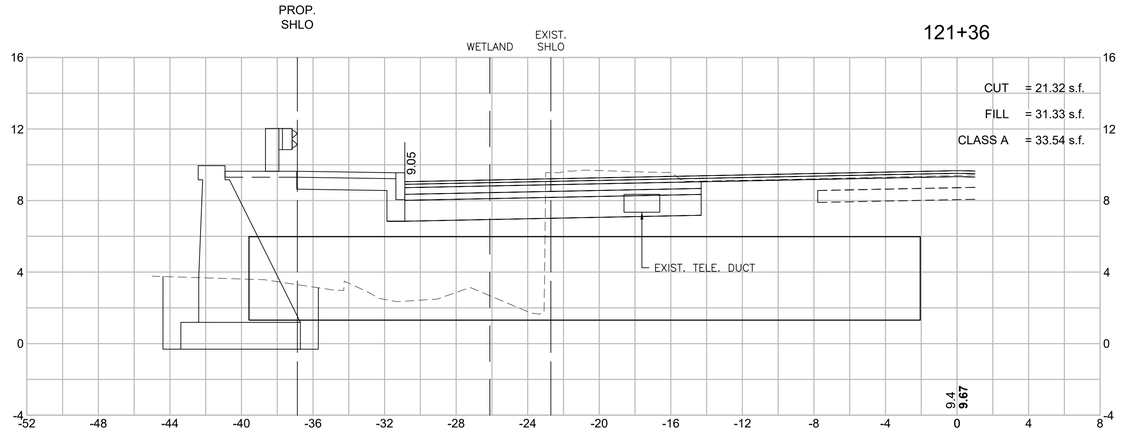


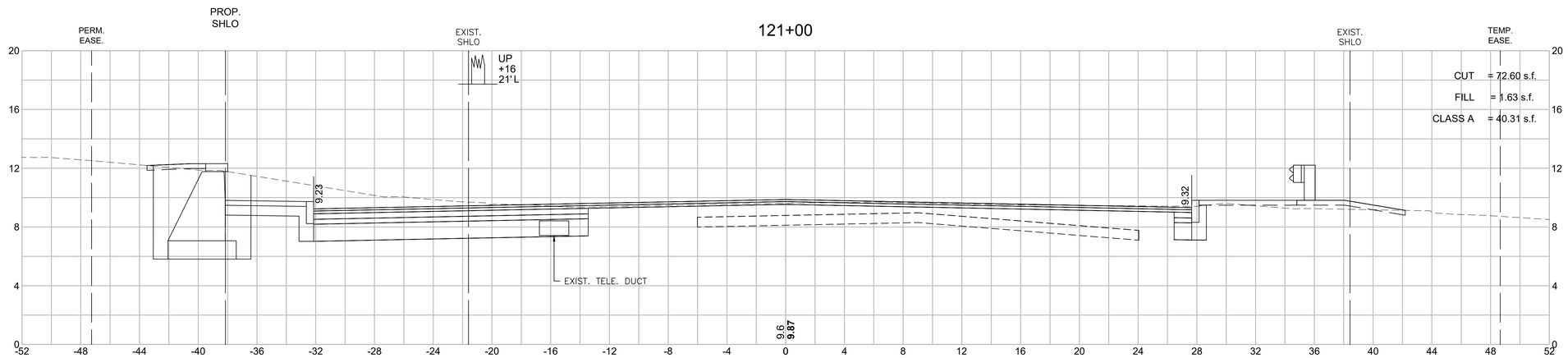
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

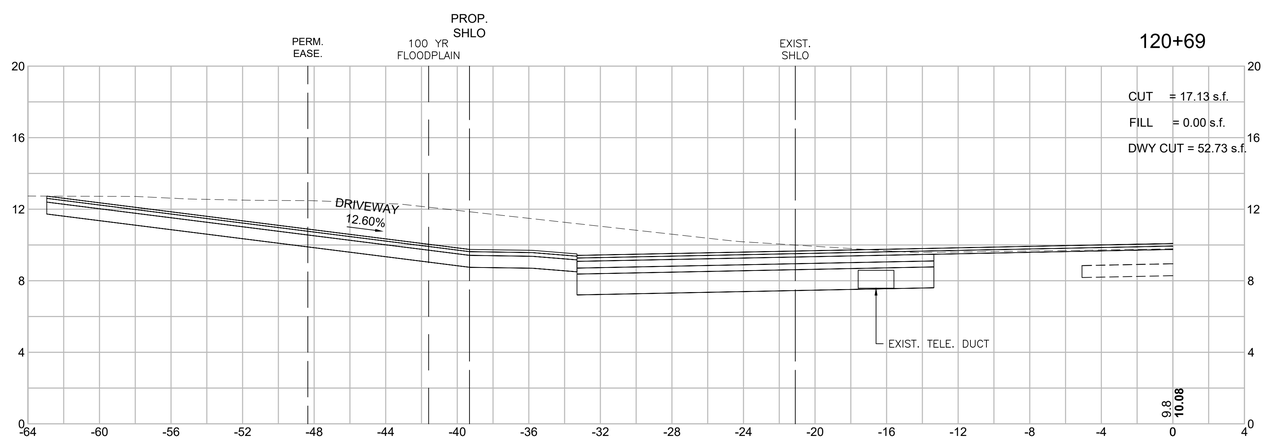
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	158	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







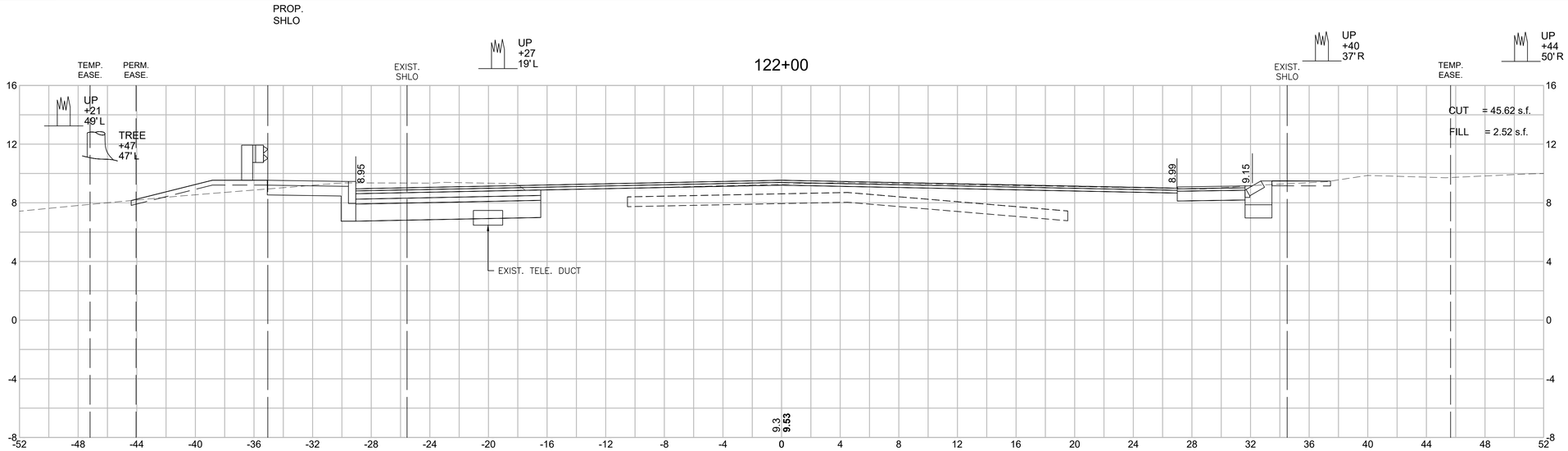
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

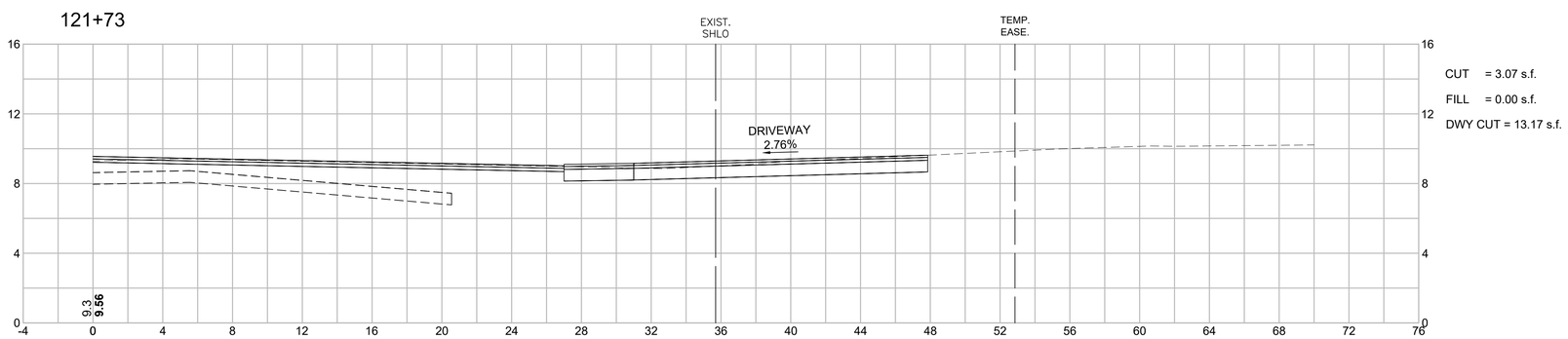
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:06 PM

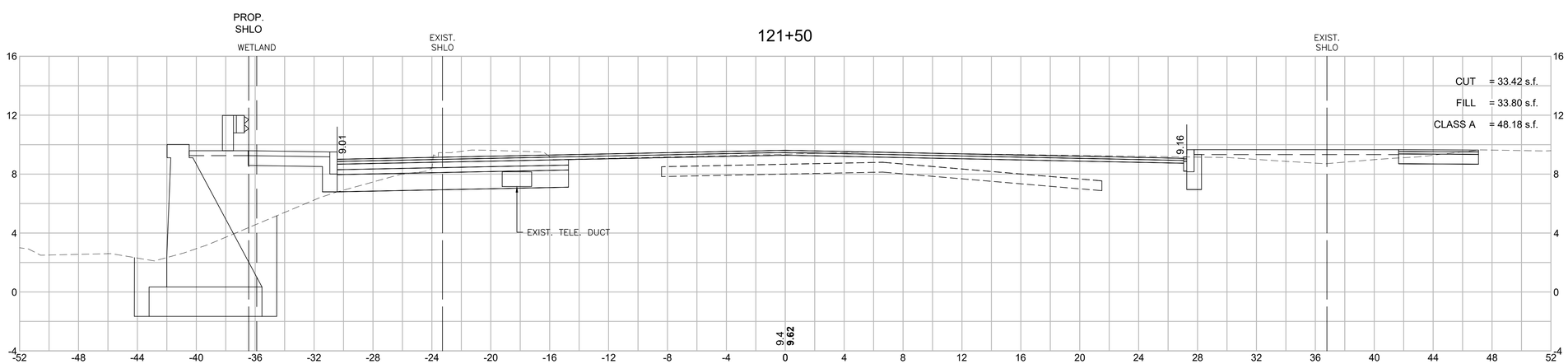
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	159	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







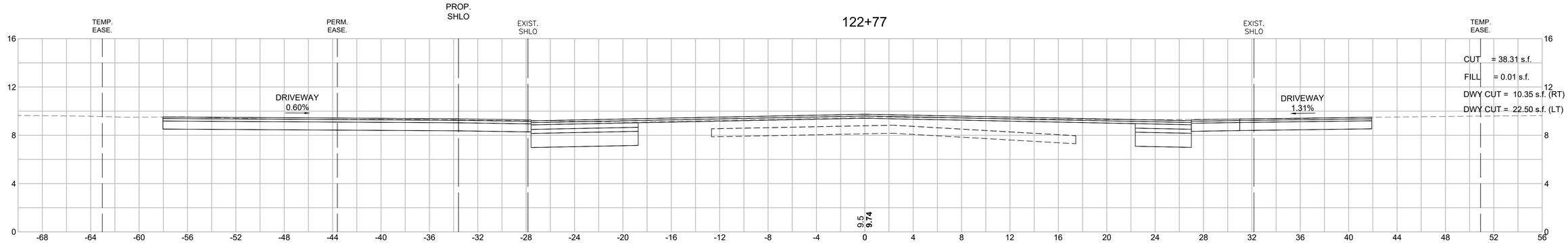
HOR. SCALE IN FEET
VER. SCALE IN FEET

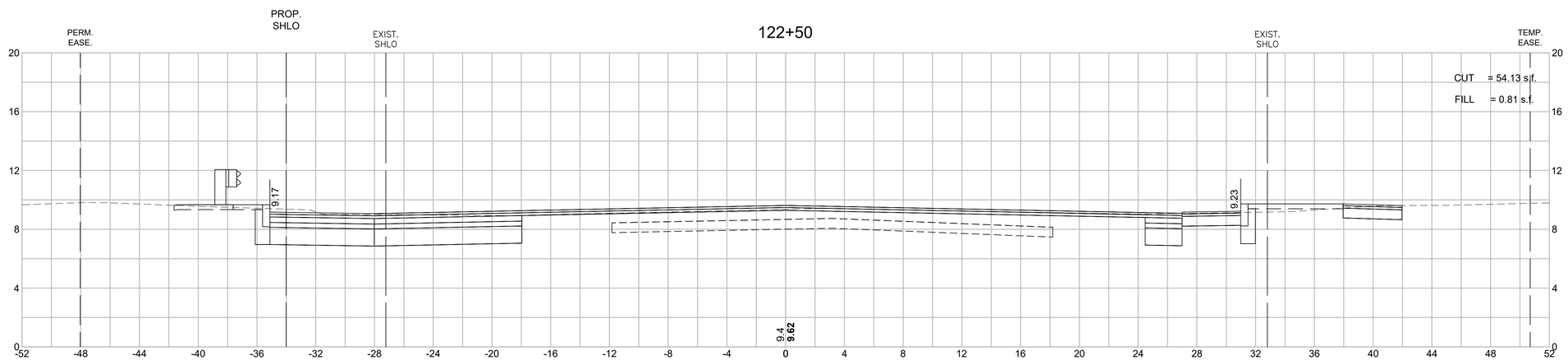
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:06 PM

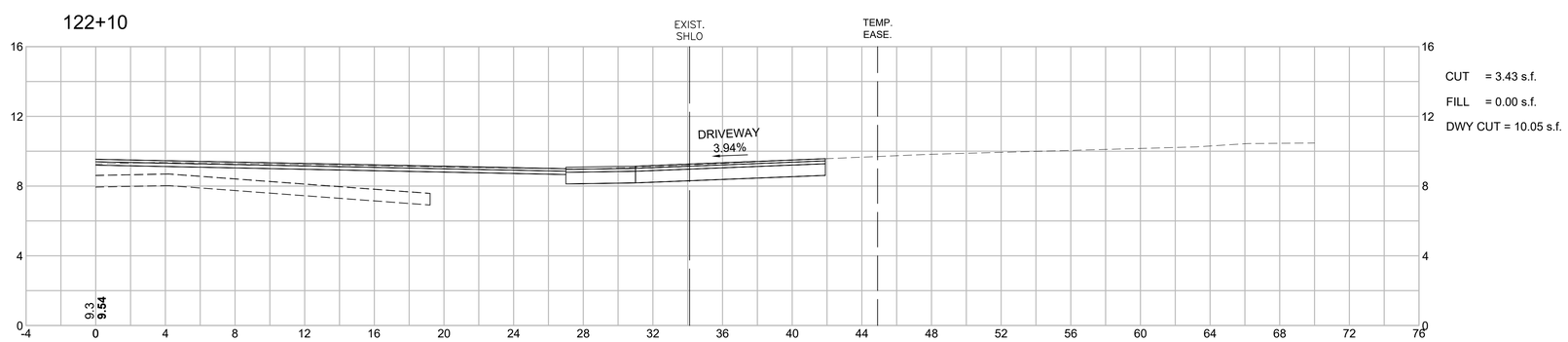
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	160	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







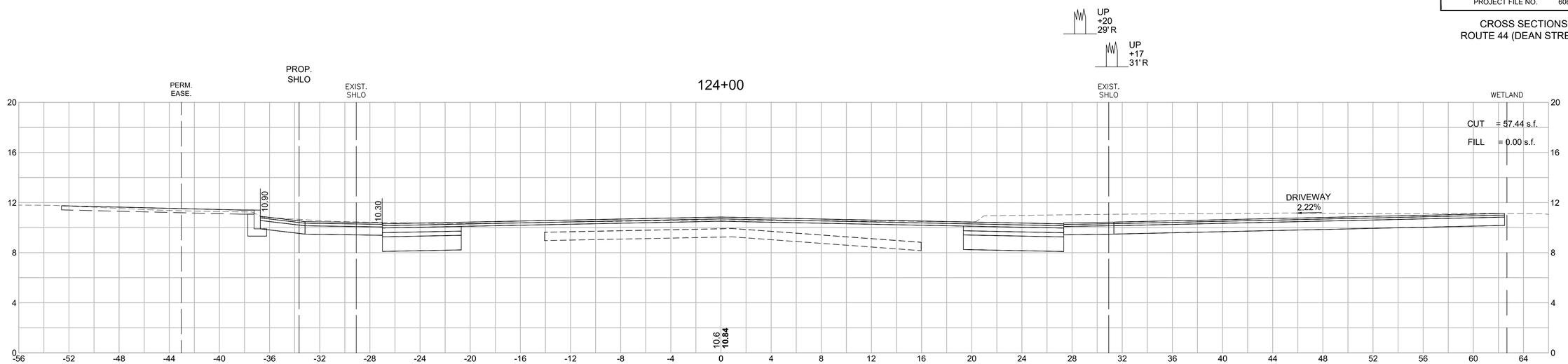
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

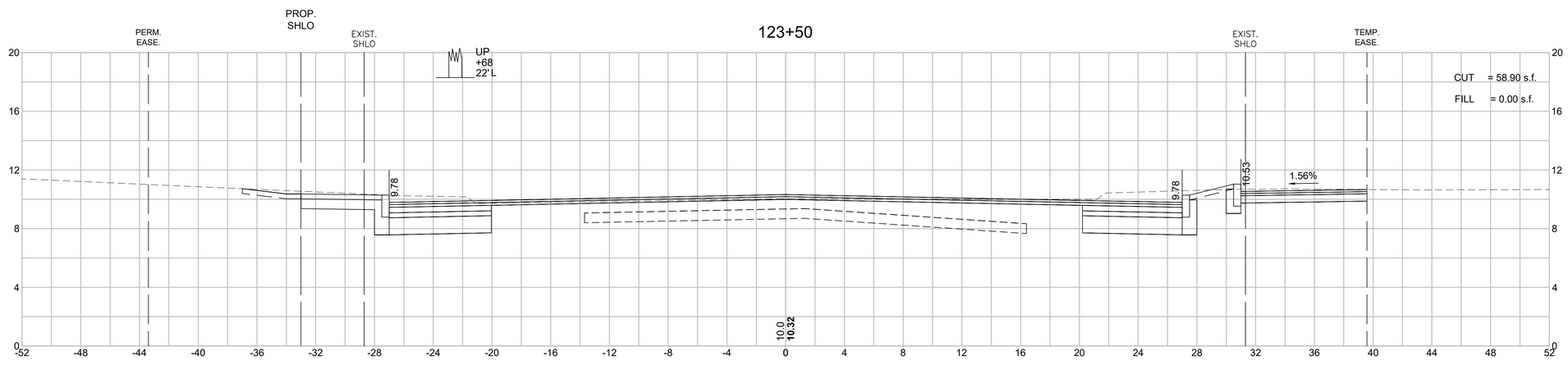
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:07 PM

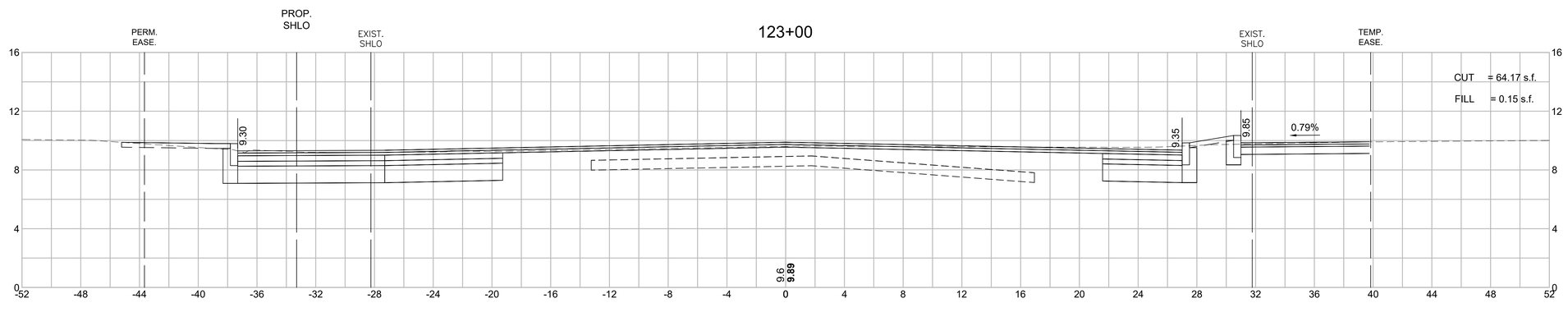
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	161	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:07 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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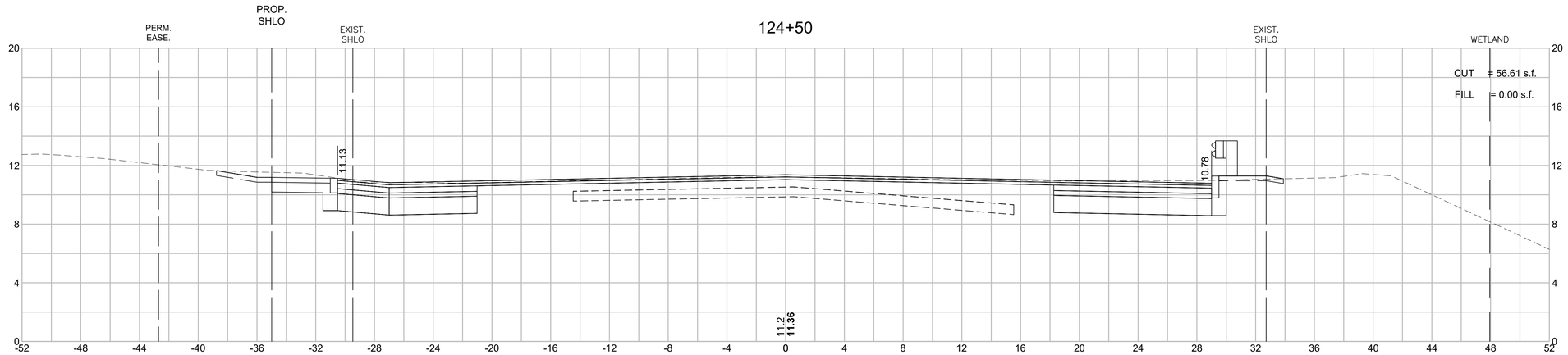
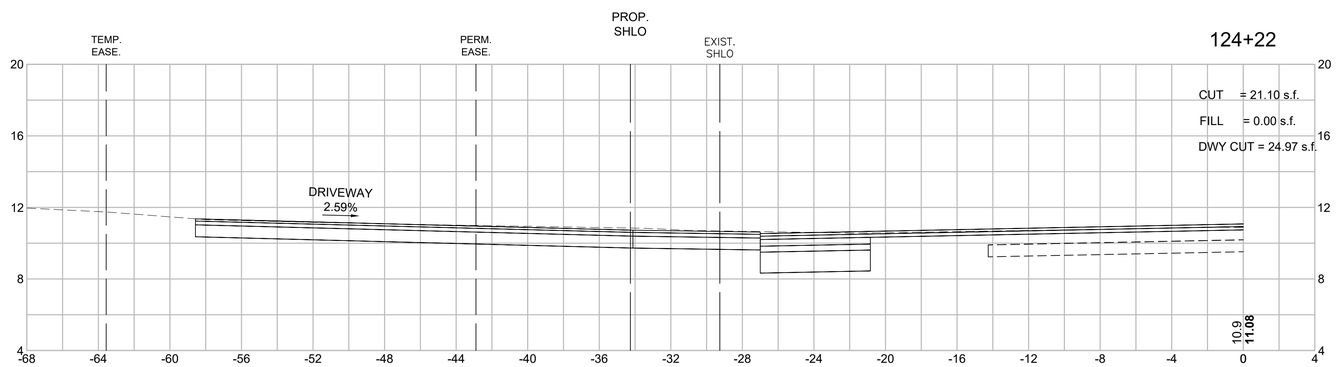
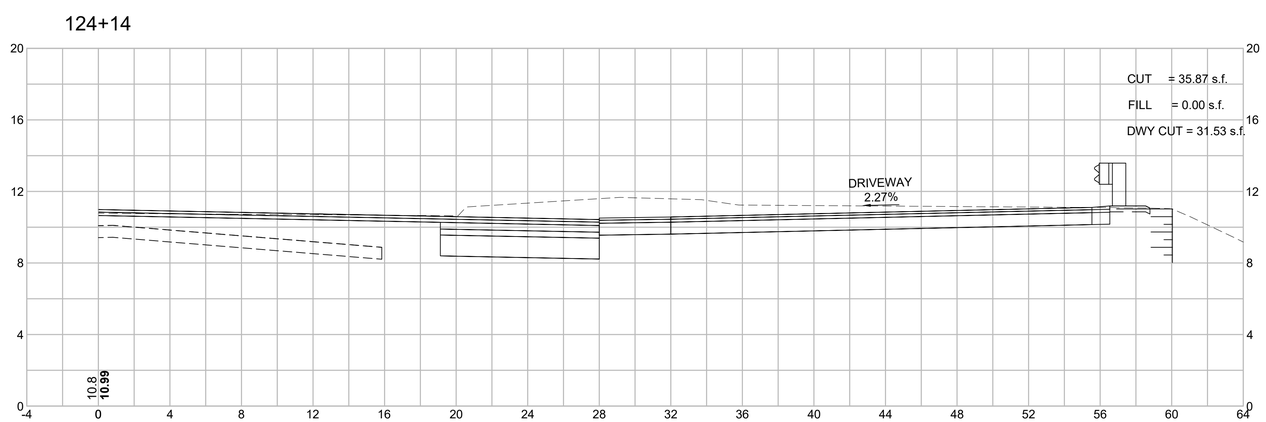
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)







HOR. SCALE IN FEET
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:07 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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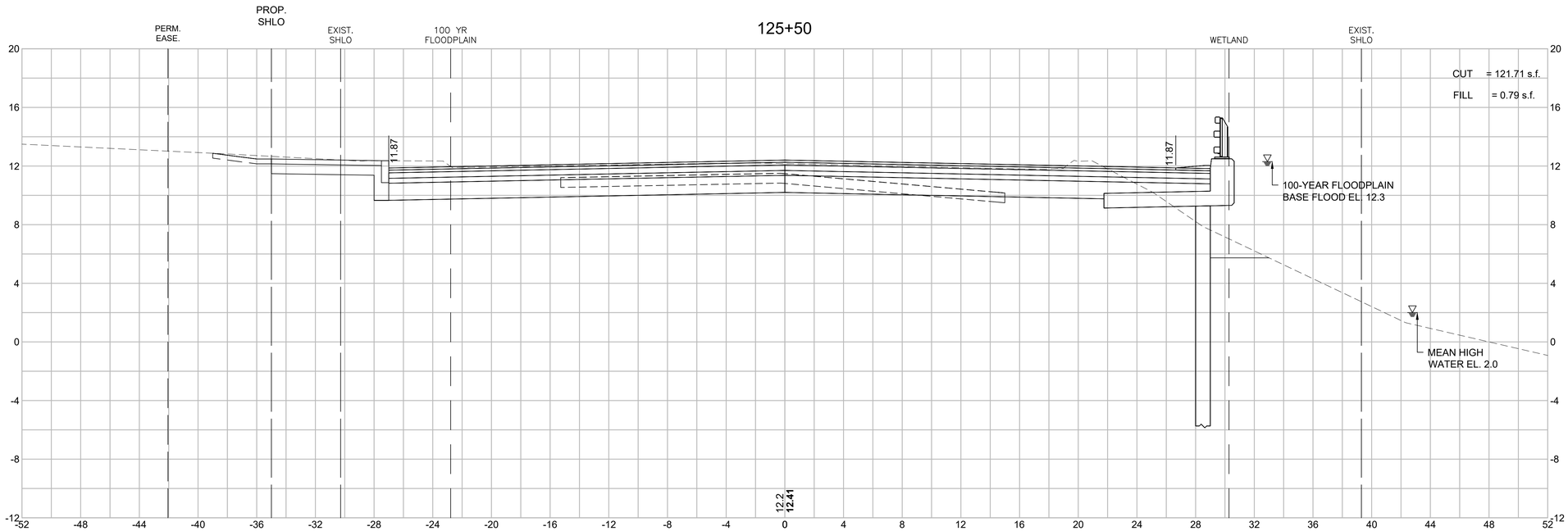
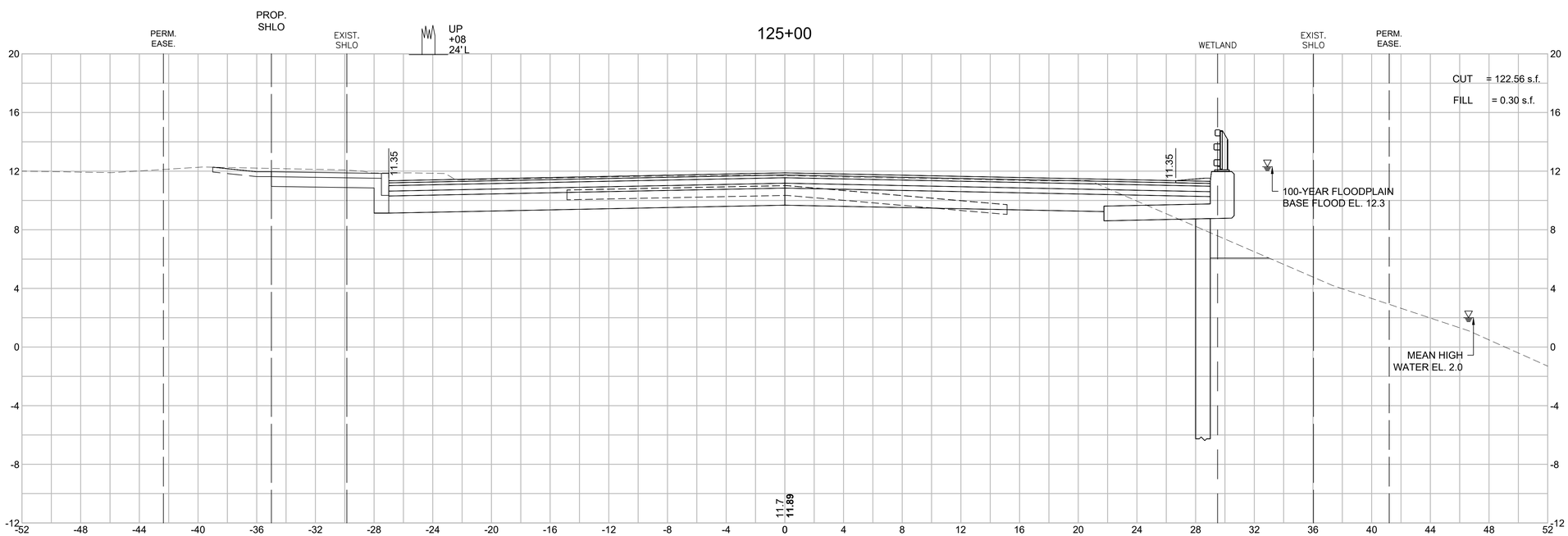
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)





HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:07 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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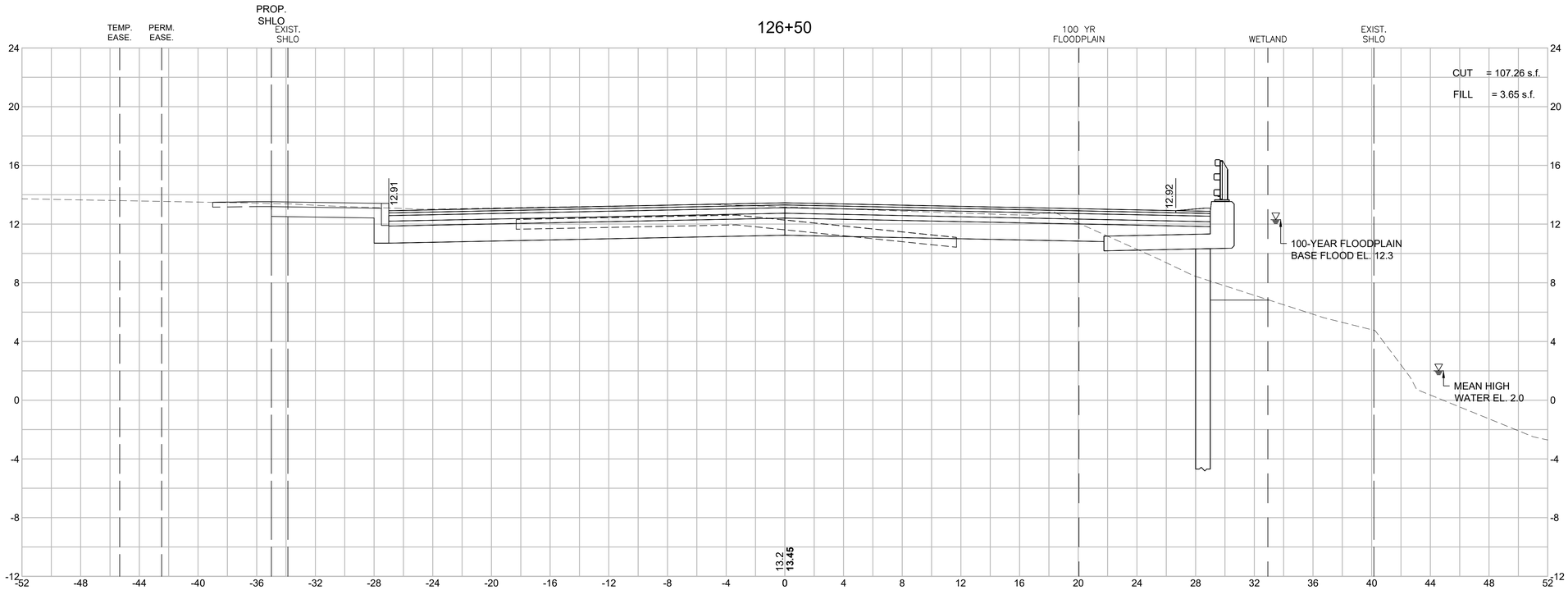
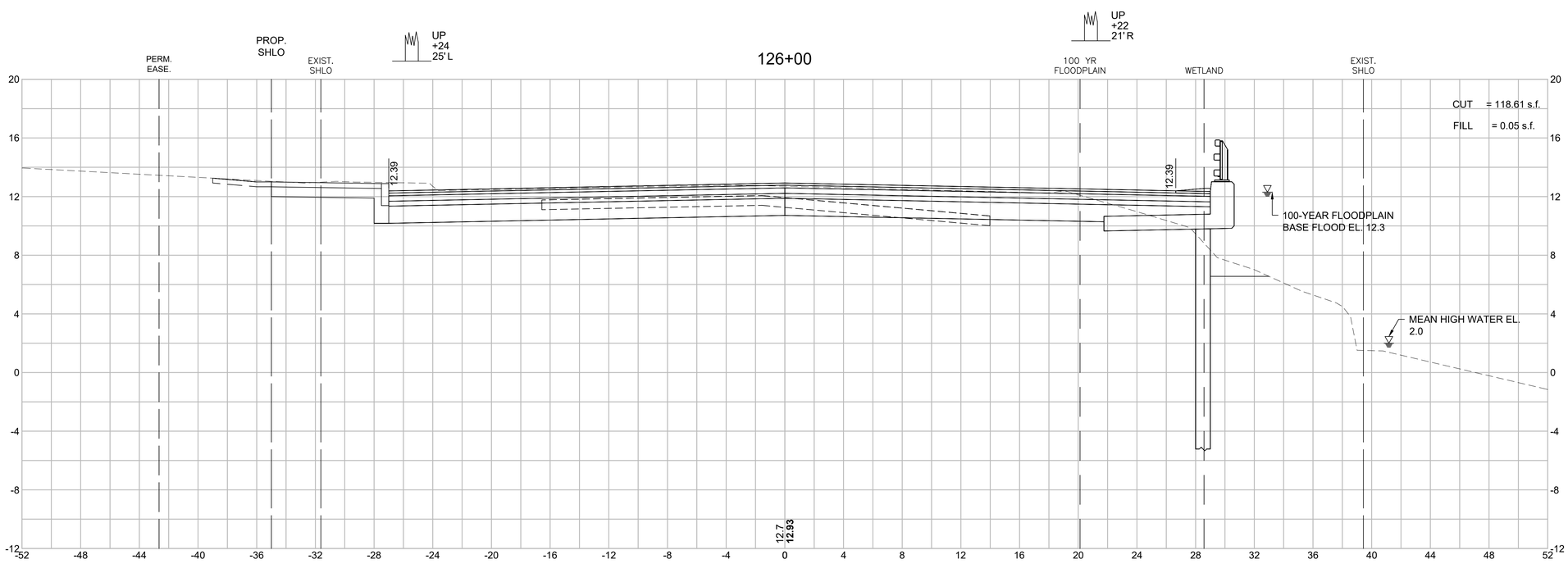
CROSS SECTIONS
ROUTE 44 (DEAN STREET)





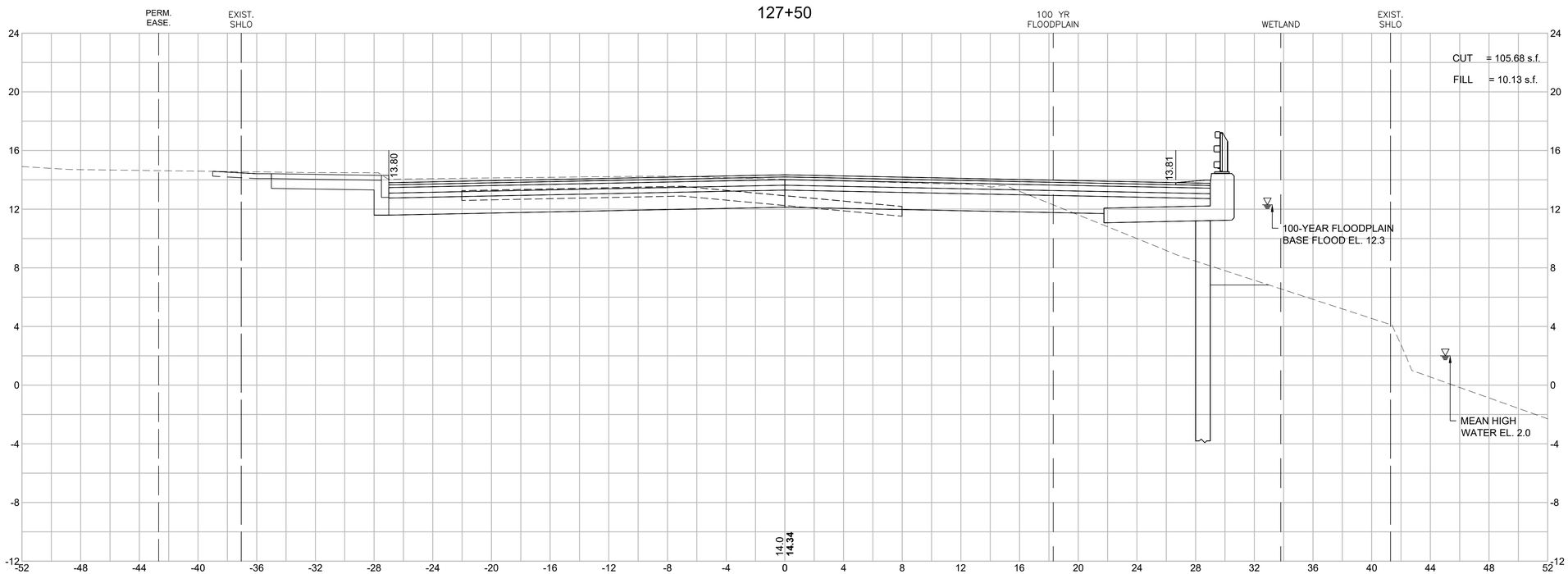
HOR. SCALE IN FEET
VER. SCALE IN FEET

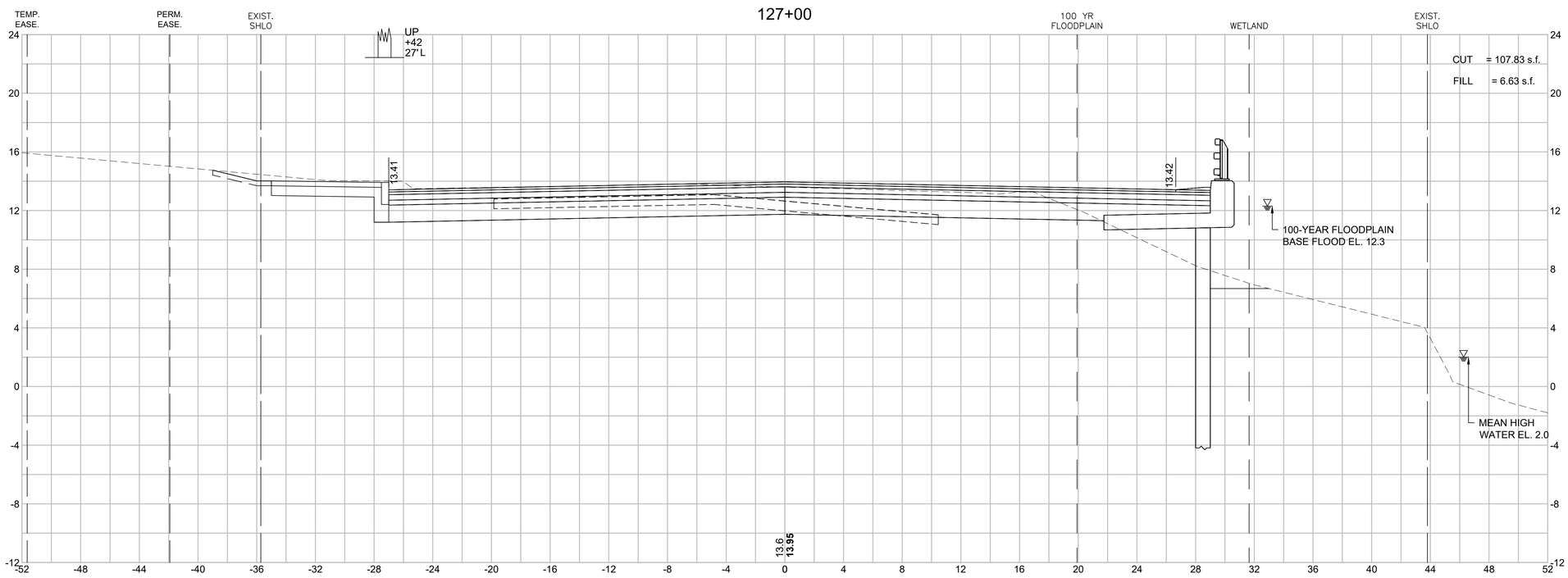
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:08 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	165	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
ROUTE 44 (DEAN STREET)





HOR. SCALE IN FEET
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:08 PM

TAUNTON
ROUTE 44 (DEAN STREET)

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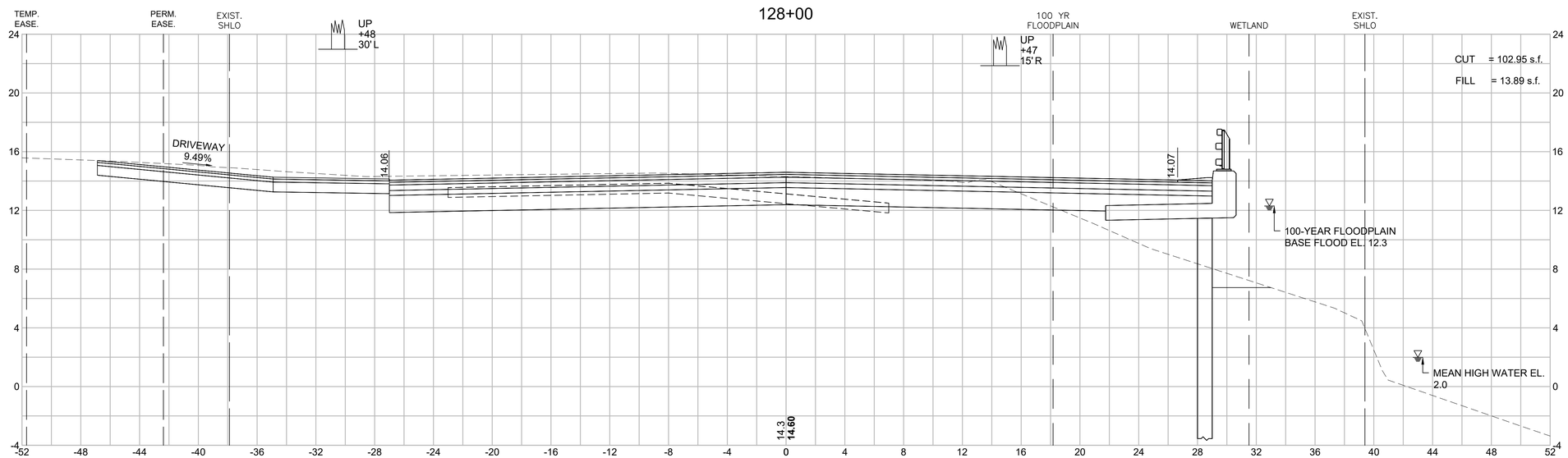

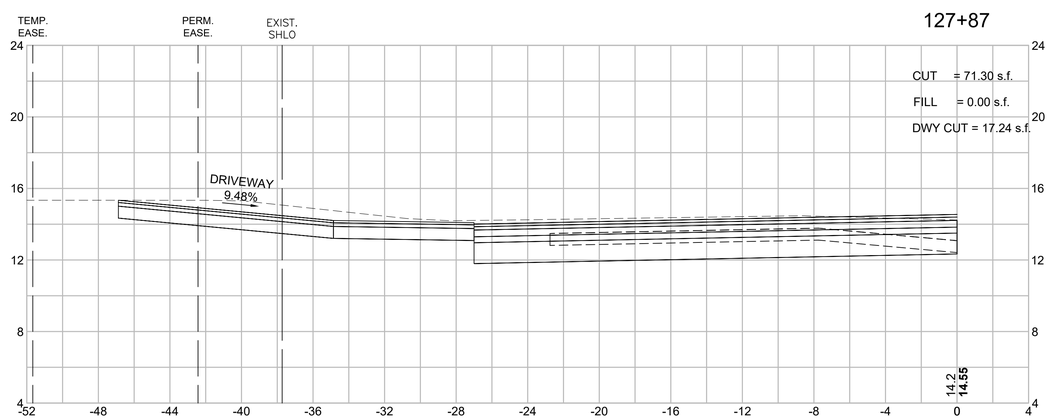

HOR. SCALE IN FEET
VER. SCALE IN FEET

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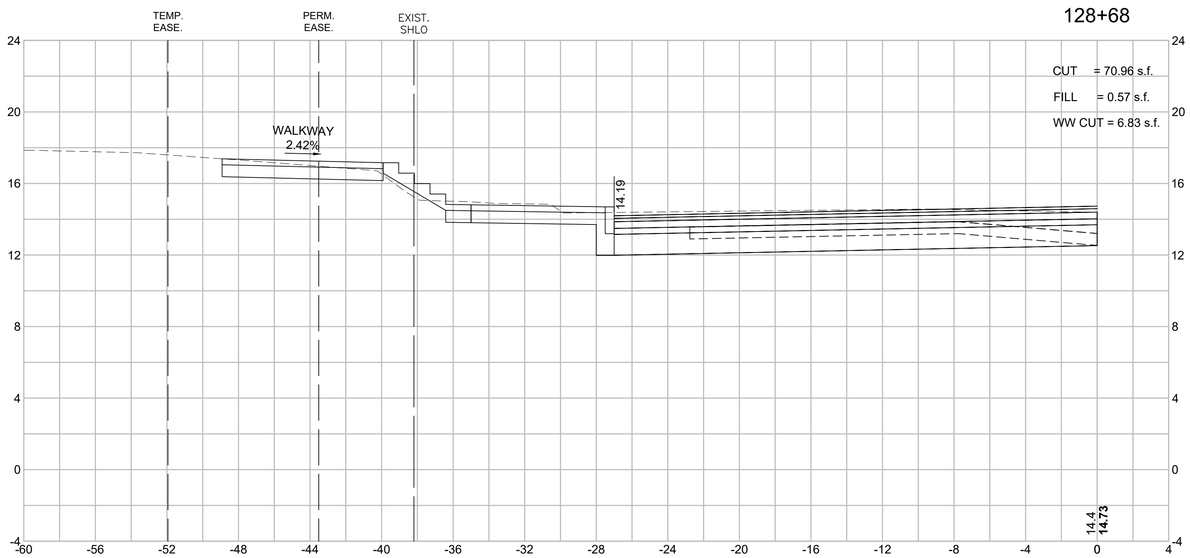

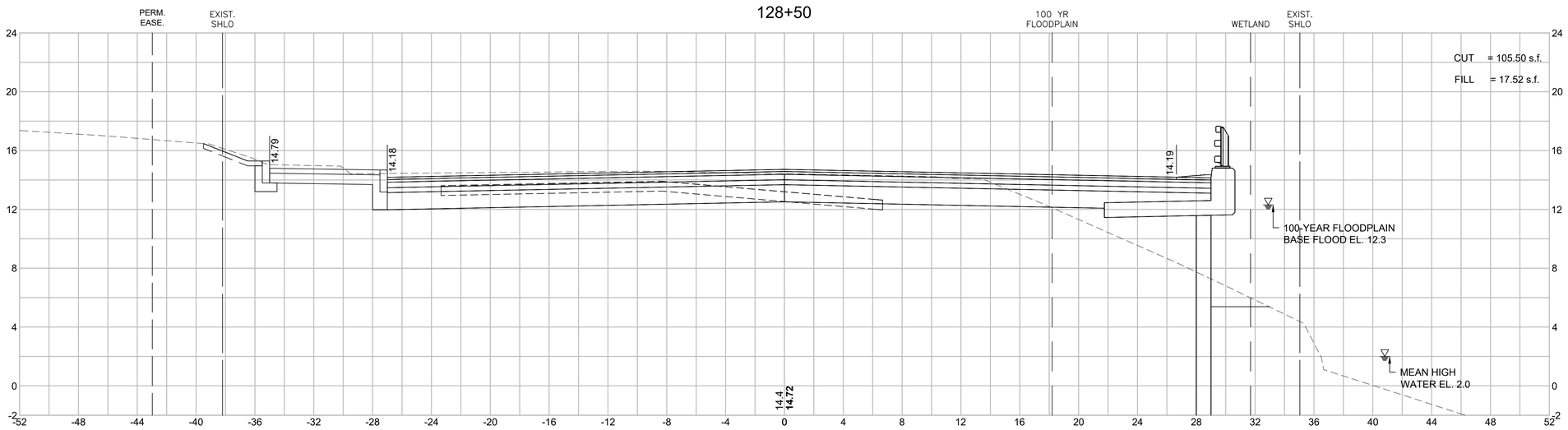

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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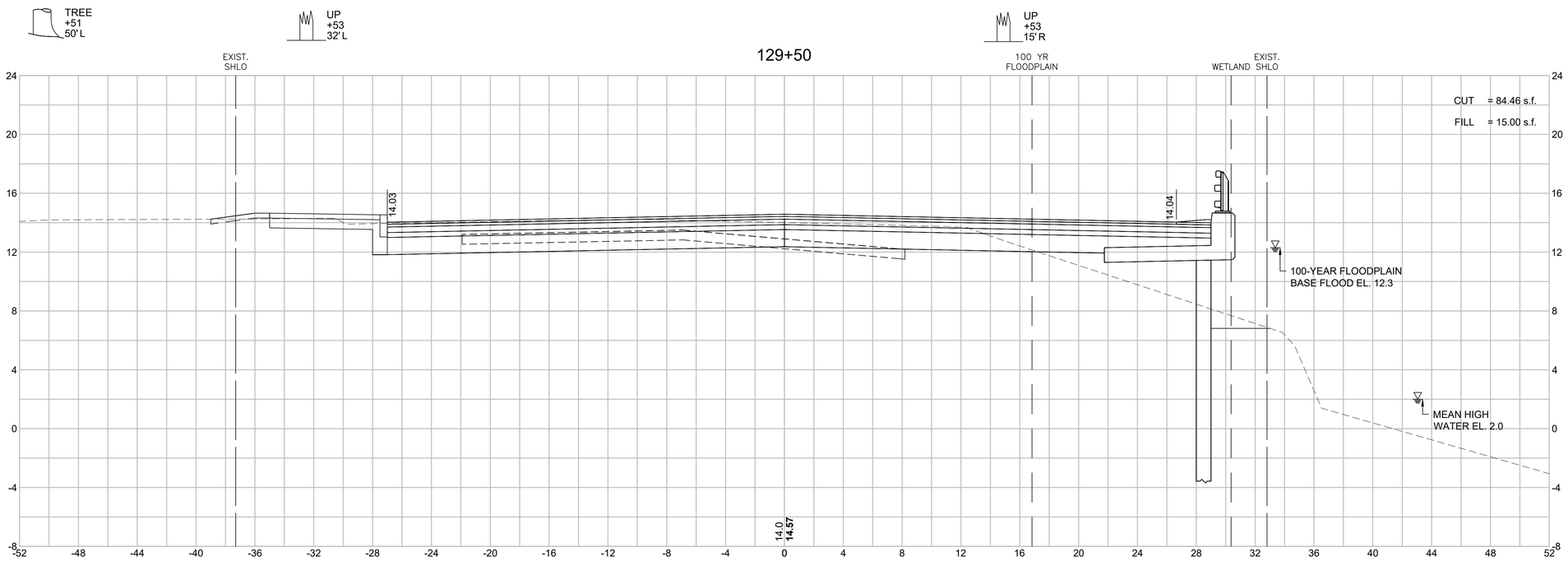

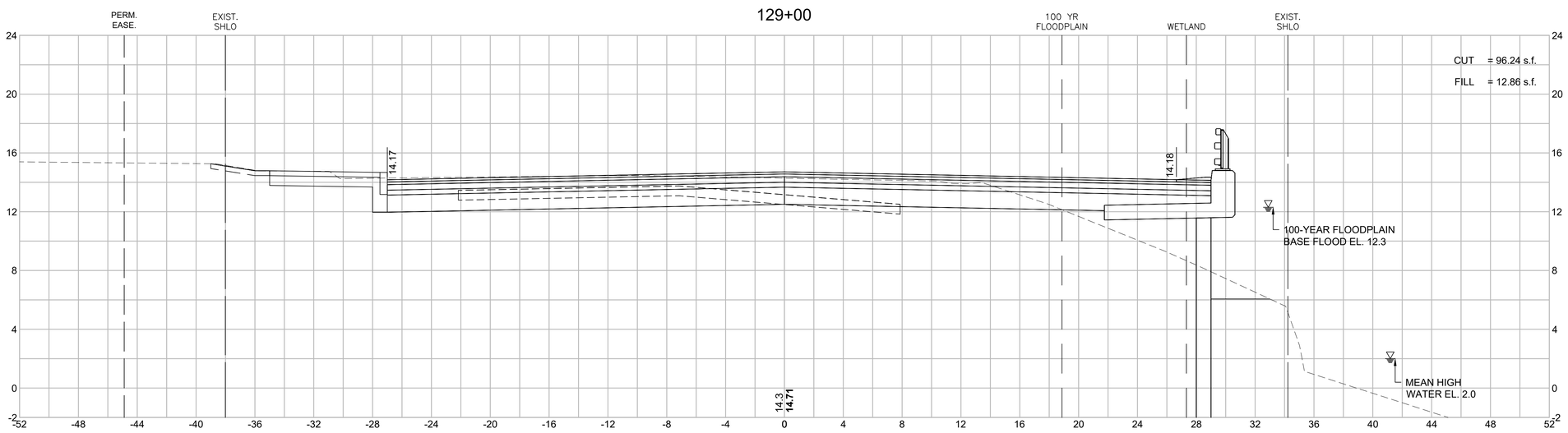

HOR. SCALE IN FEET
4 0 4 8
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VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:09 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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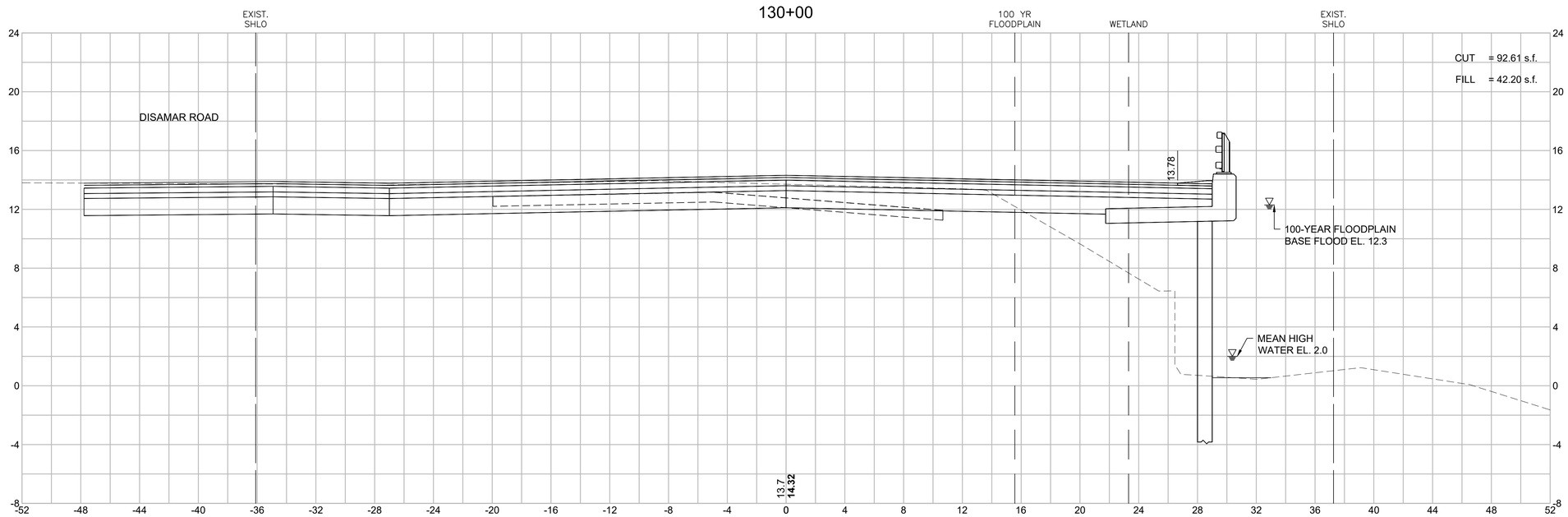

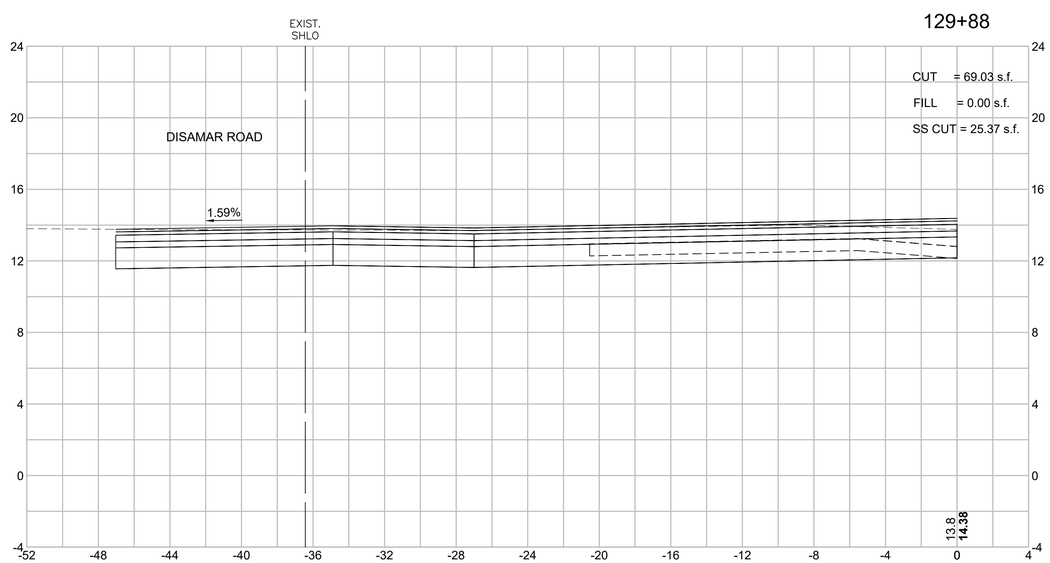

HOR. SCALE IN FEET
4 0 4 8
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VER. SCALE IN FEET

TAUNTON
ROUTE 44 (DEAN STREET)

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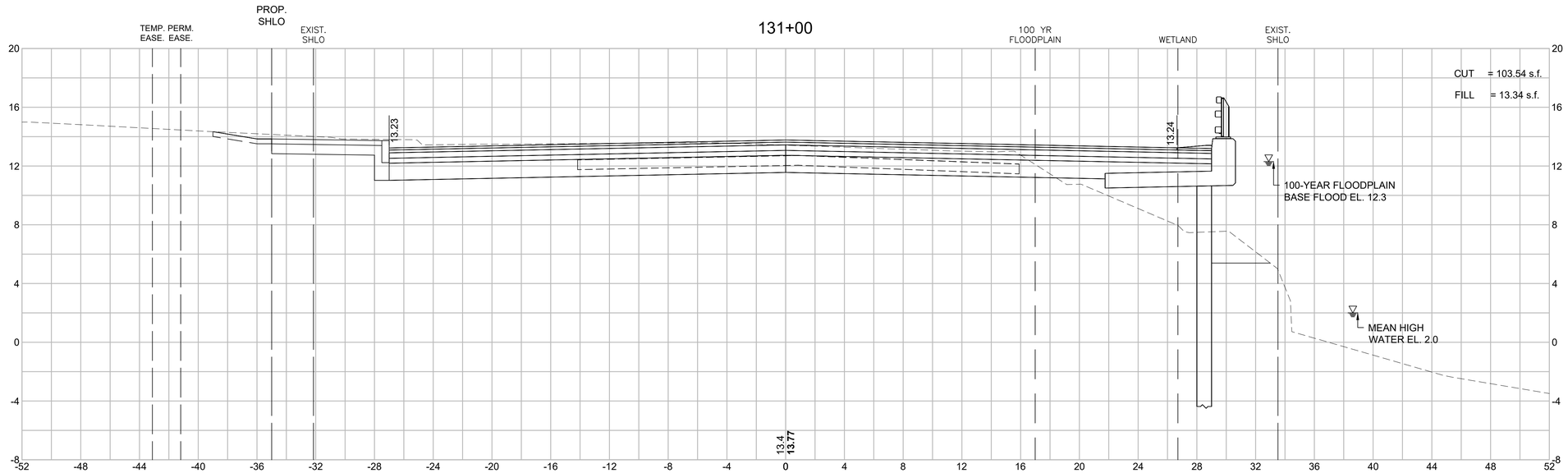

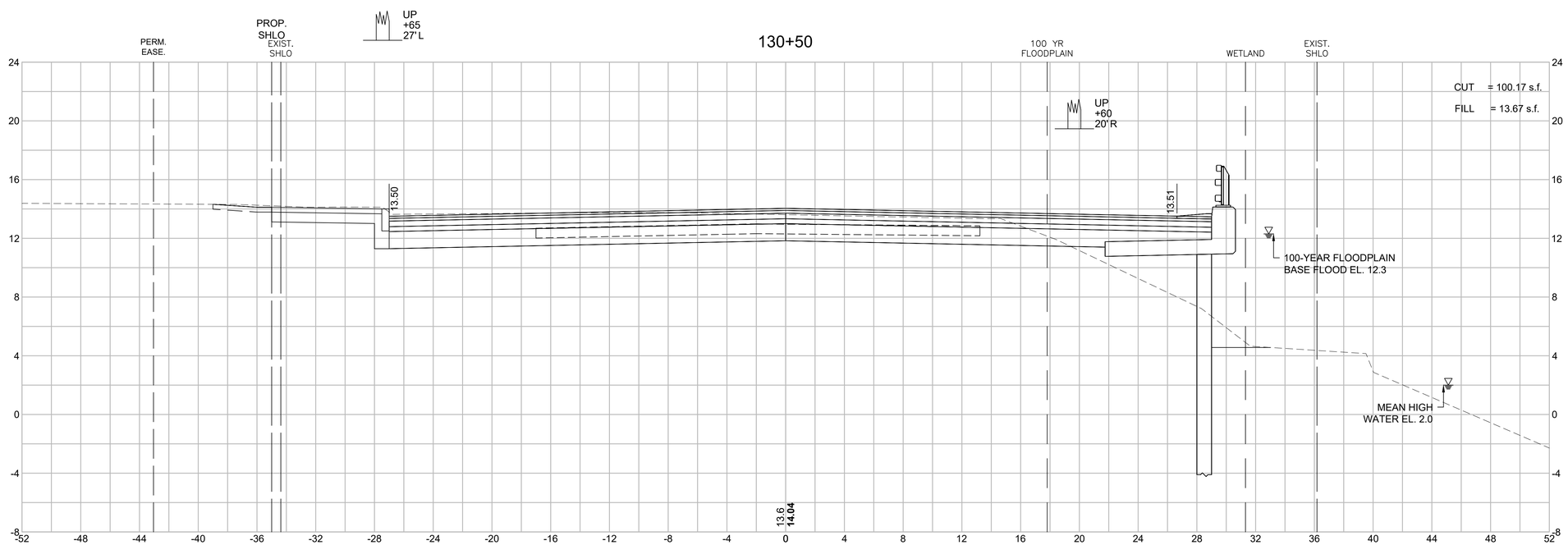

HOR. SCALE IN FEET
4 0 4 8
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VER. SCALE IN FEET

TAUNTON
ROUTE 44 (DEAN STREET)

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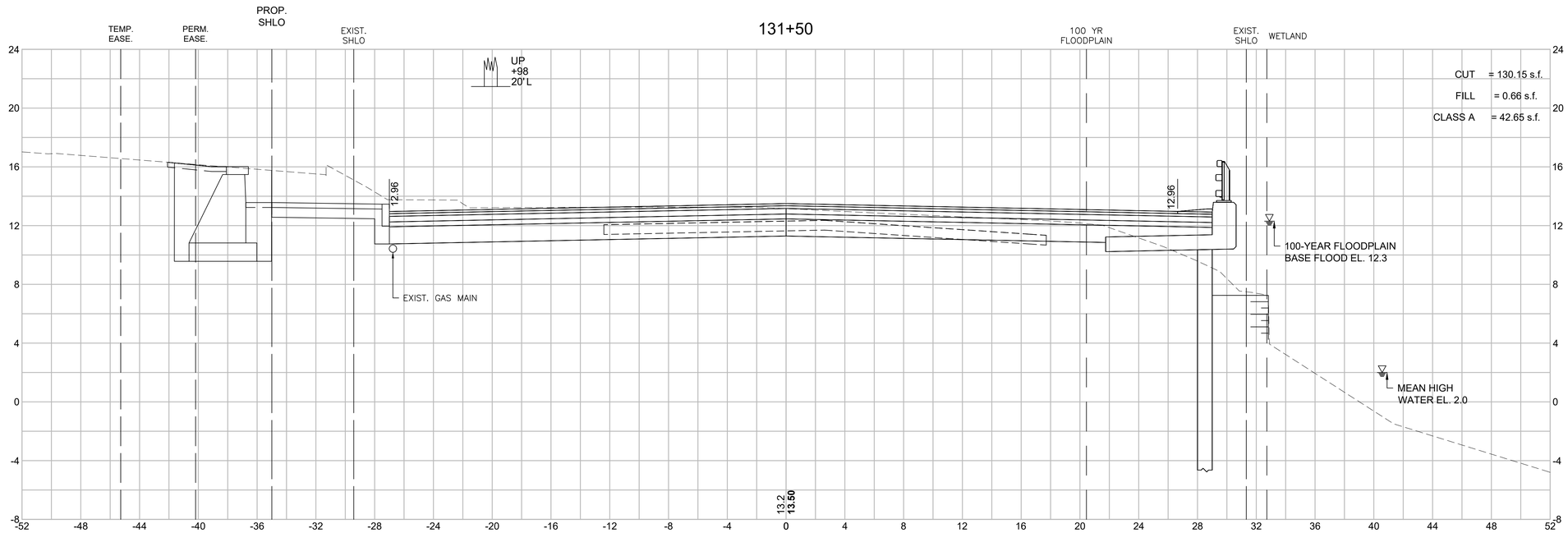

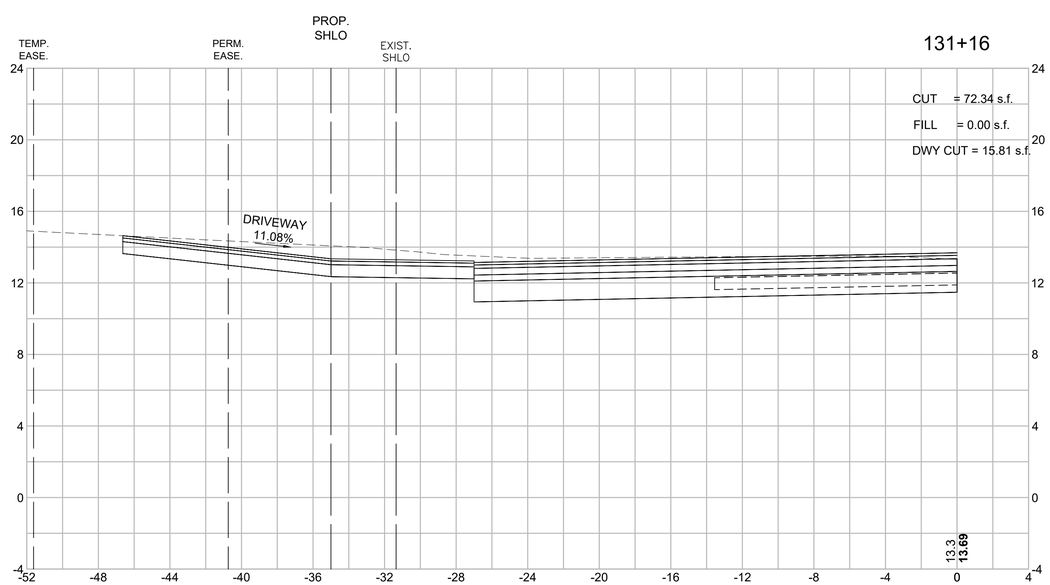

HOR. SCALE IN FEET
VER. SCALE IN FEET

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TAUNTON
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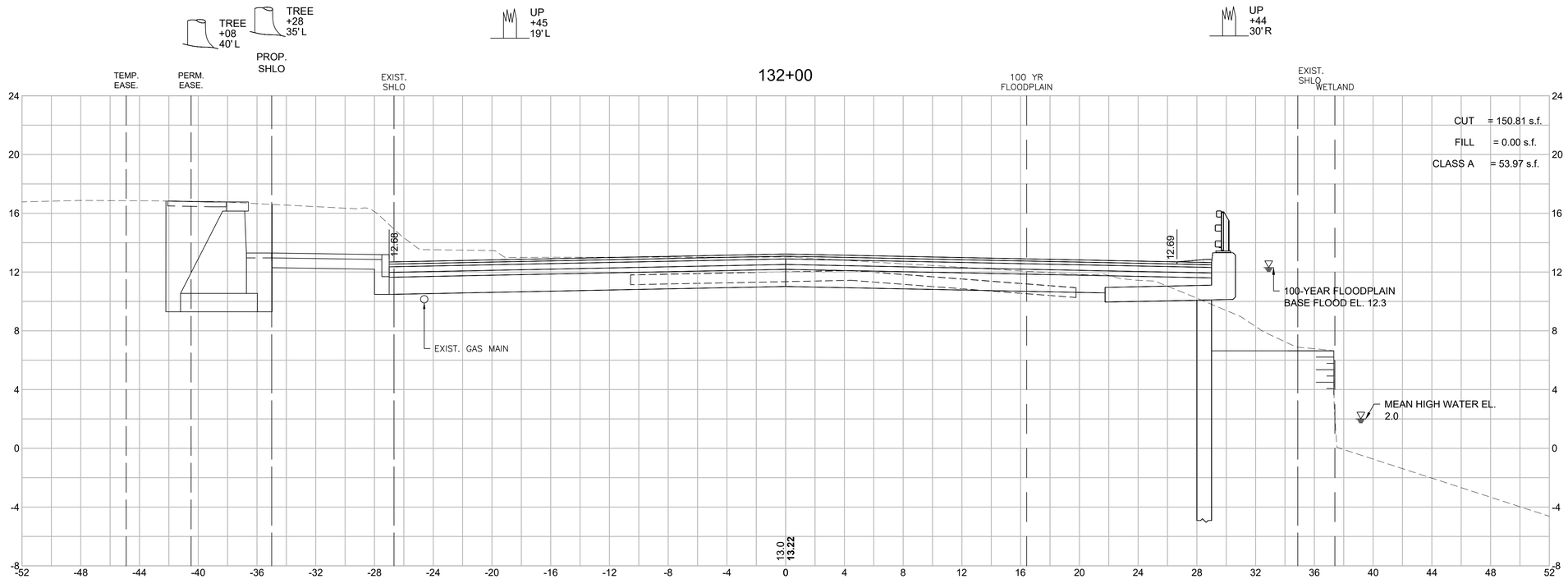

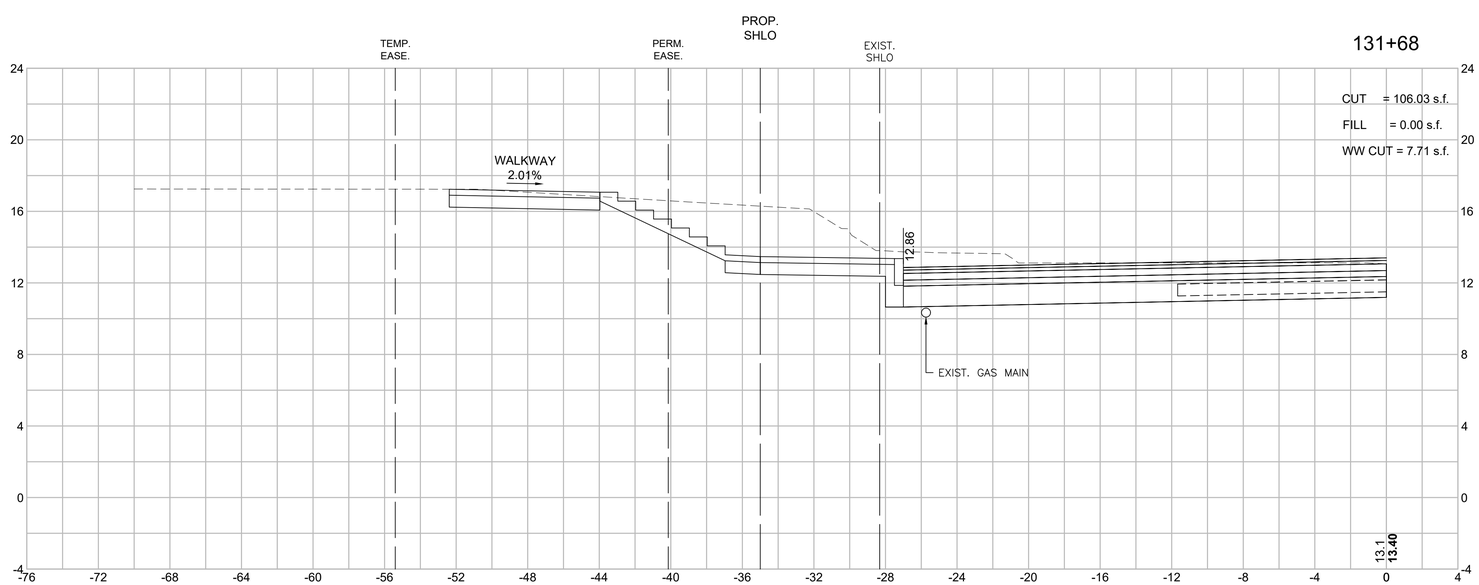

HOR. SCALE IN FEET
4 0 4 8
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606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:10 PM

TAUNTON
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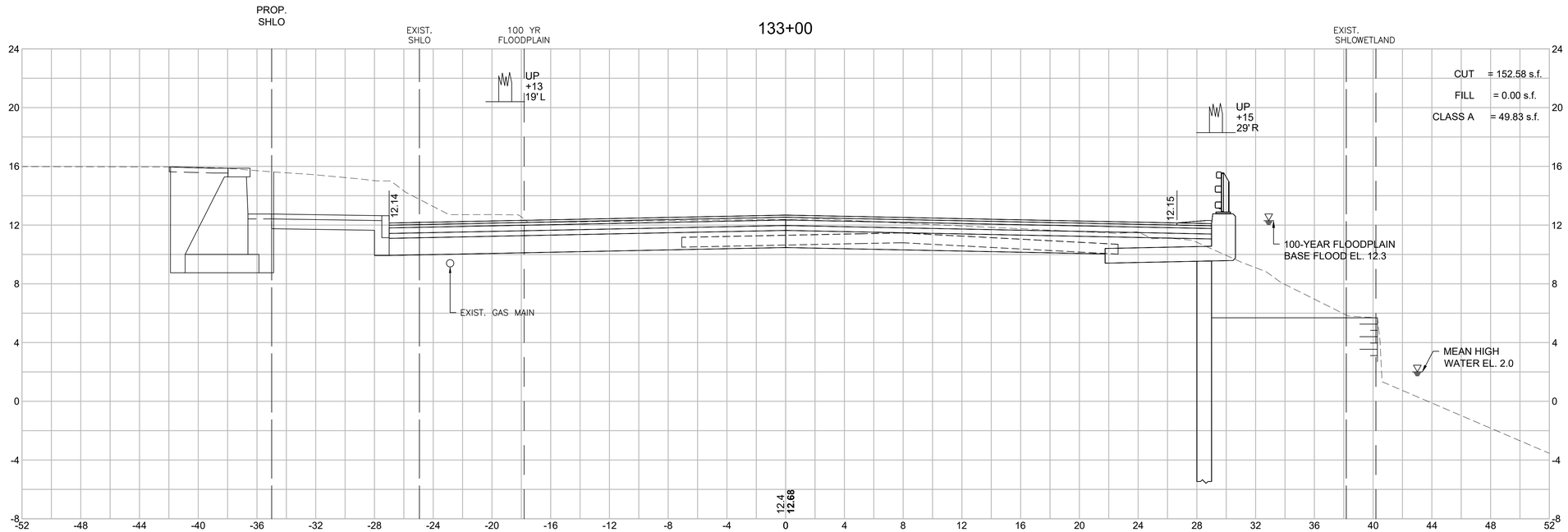

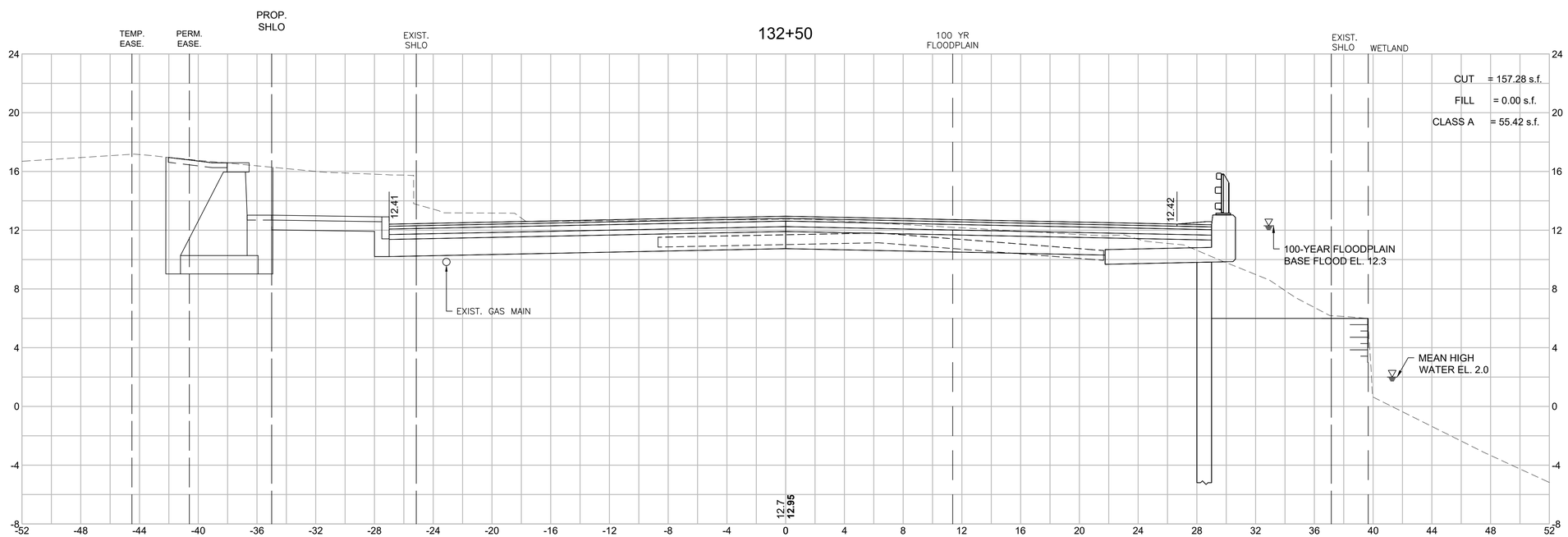

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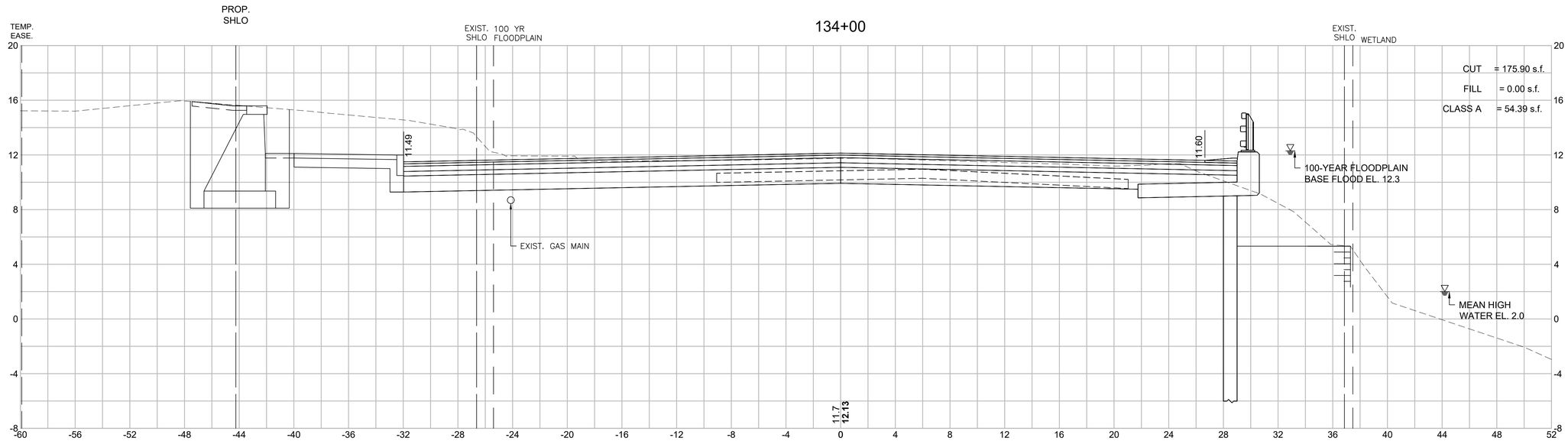

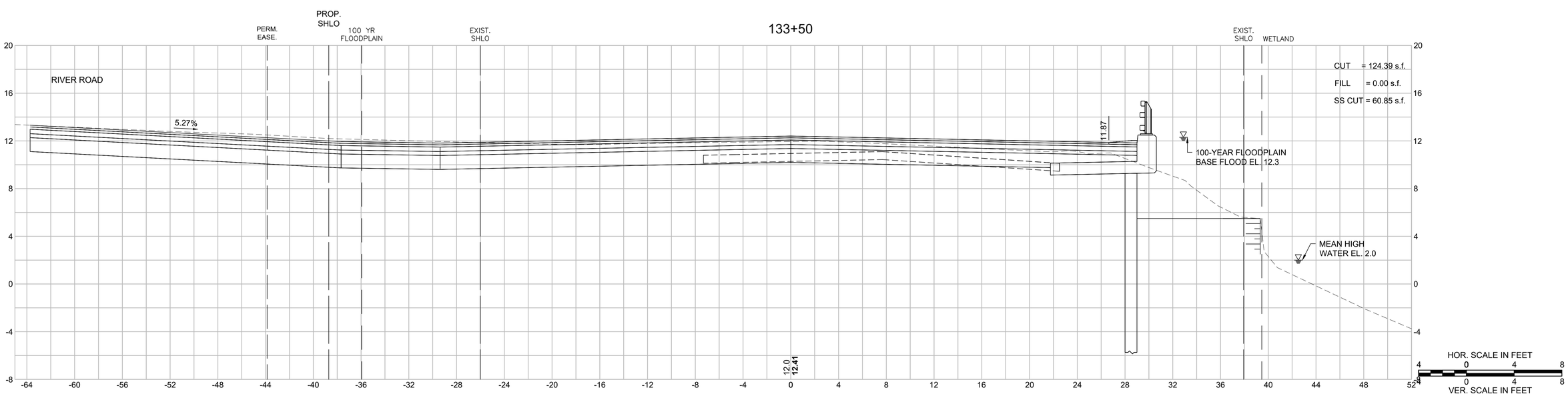

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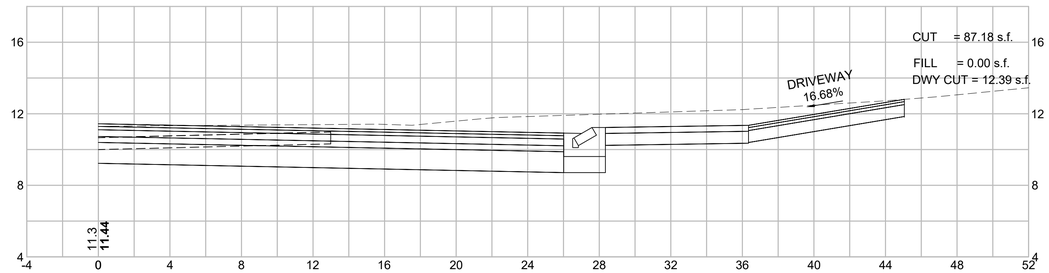
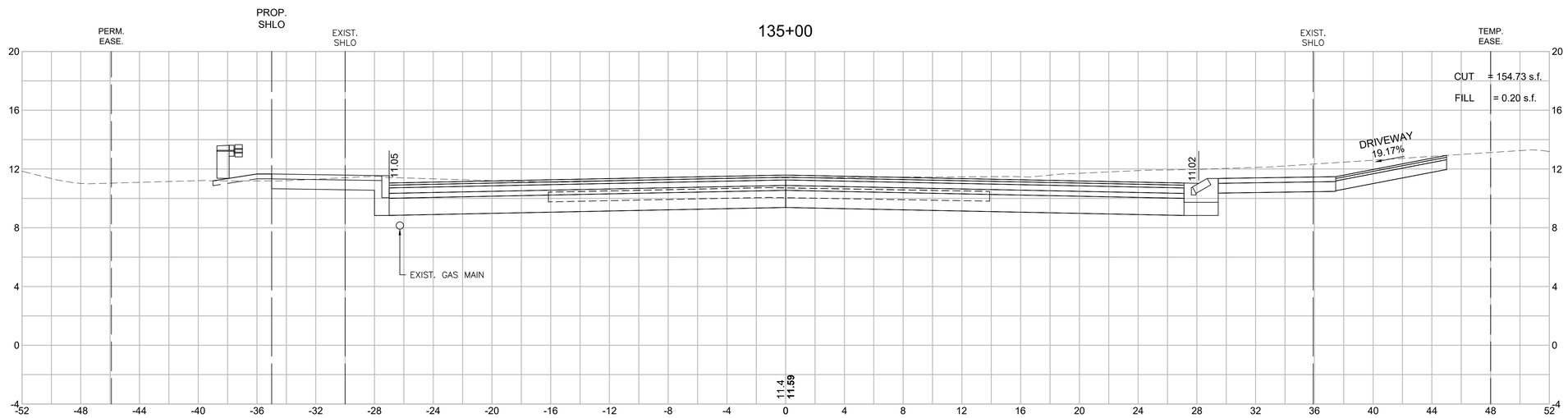
CROSS SECTIONS
ROUTE 44 (DEAN STREET)

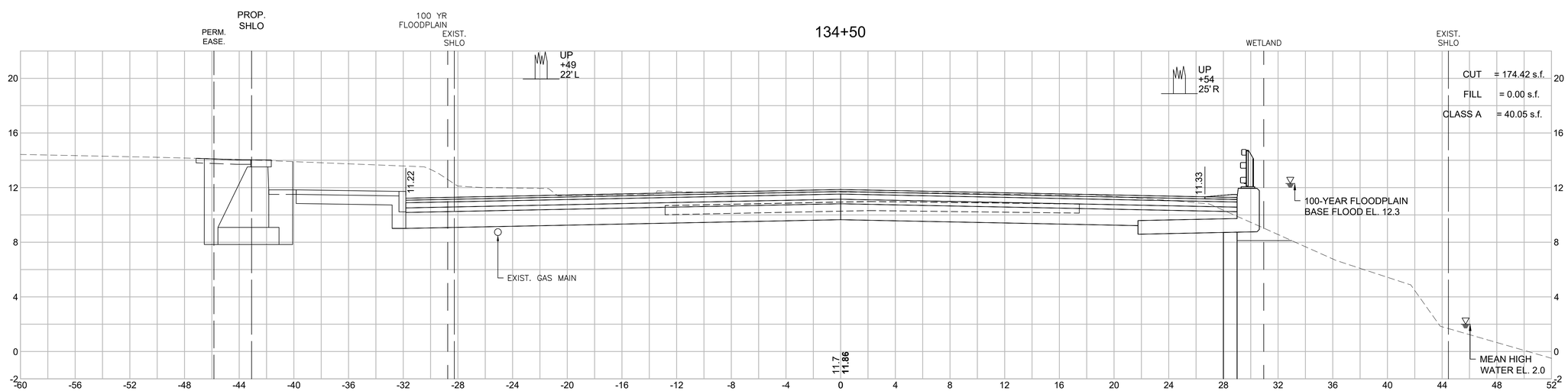
135+19



135+00



134+50



HOR. SCALE IN FEET
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:10 PM

TAUNTON
ROUTE 44 (DEAN STREET)

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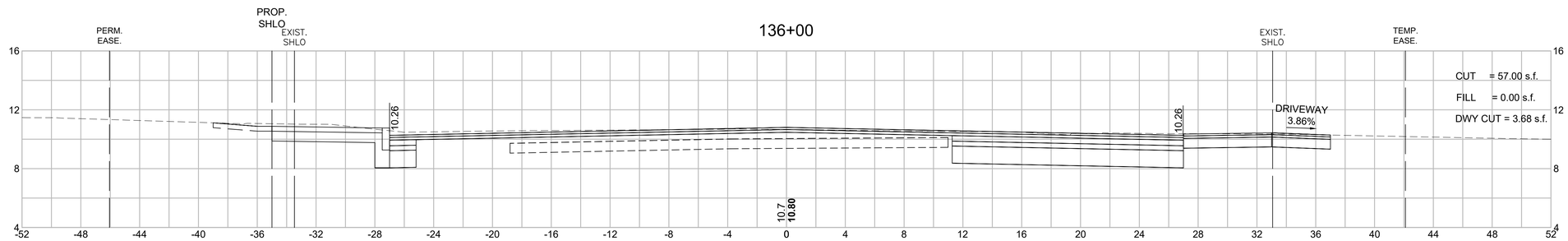
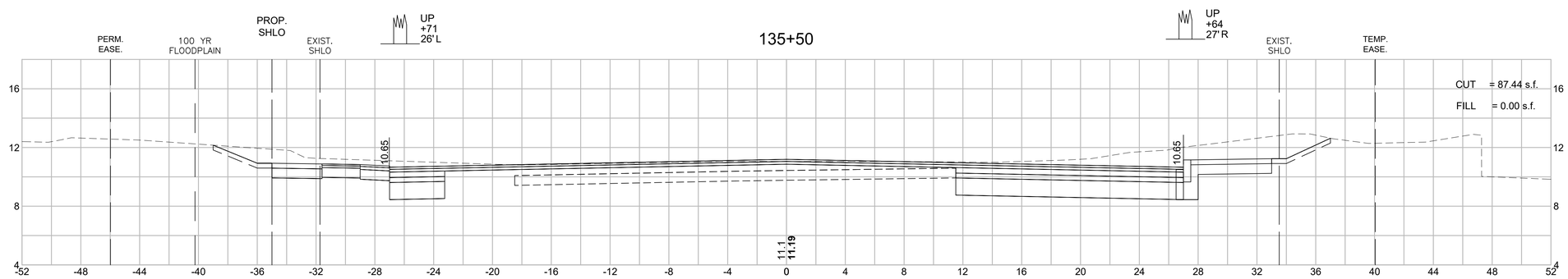
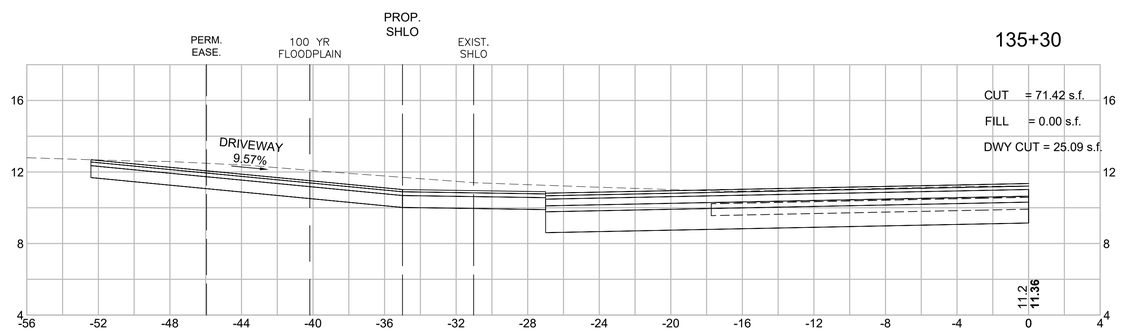
CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:11 PM







HOR. SCALE IN FEET
VER. SCALE IN FEET

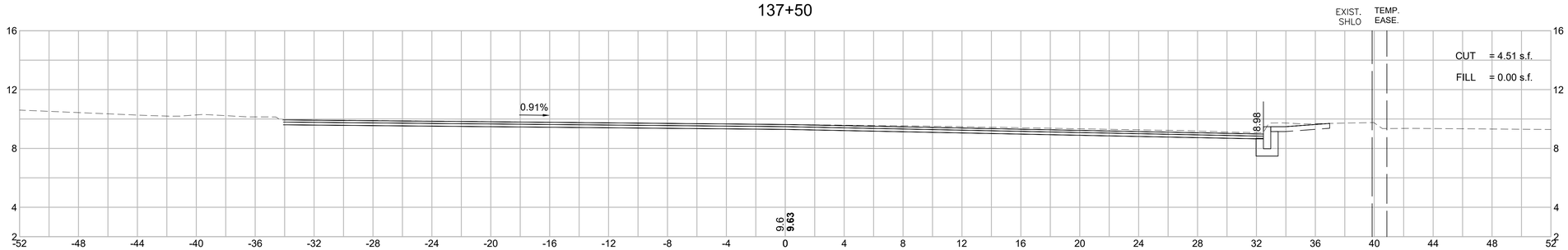
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	177	185
PROJECT FILE NO.	606024		

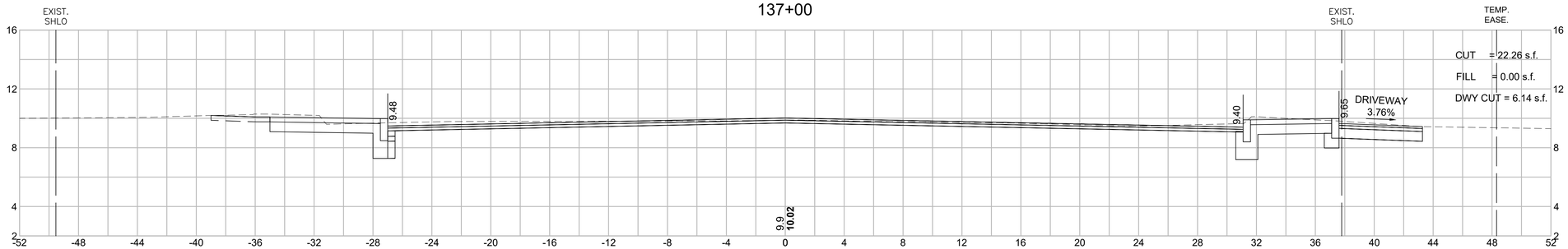
CROSS SECTIONS
ROUTE 44 (DEAN STREET)

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:11 PM

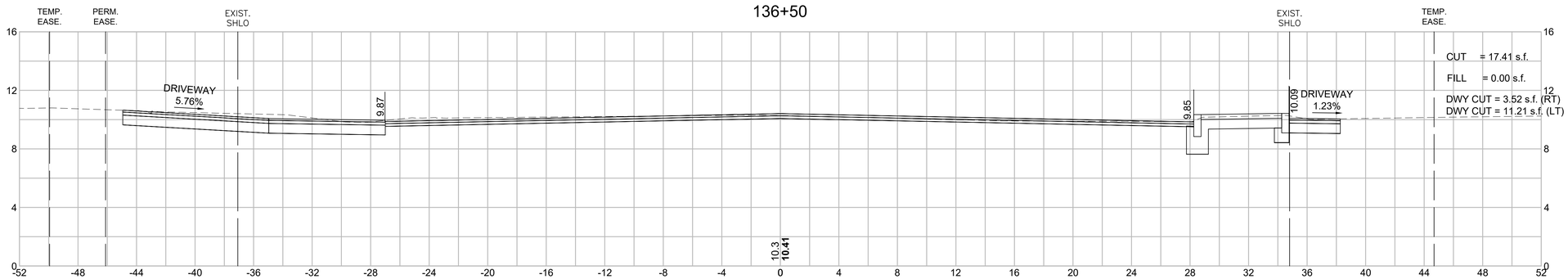
137+50



137+00



136+50



HOR. SCALE IN FEET
VER. SCALE IN FEET

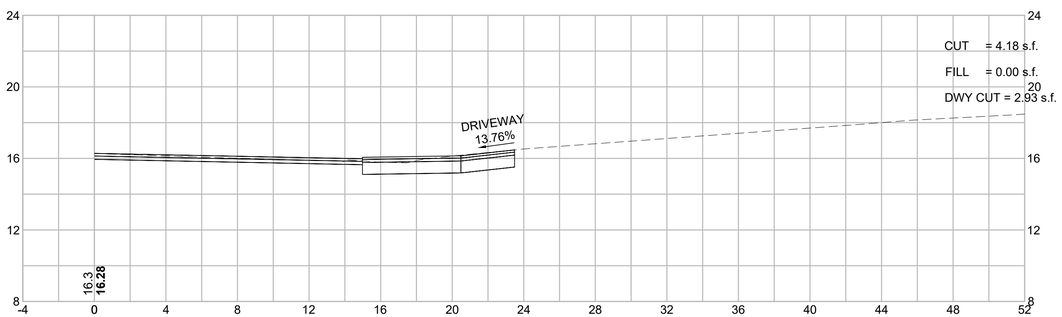
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	178	185
PROJECT FILE NO.	606024		

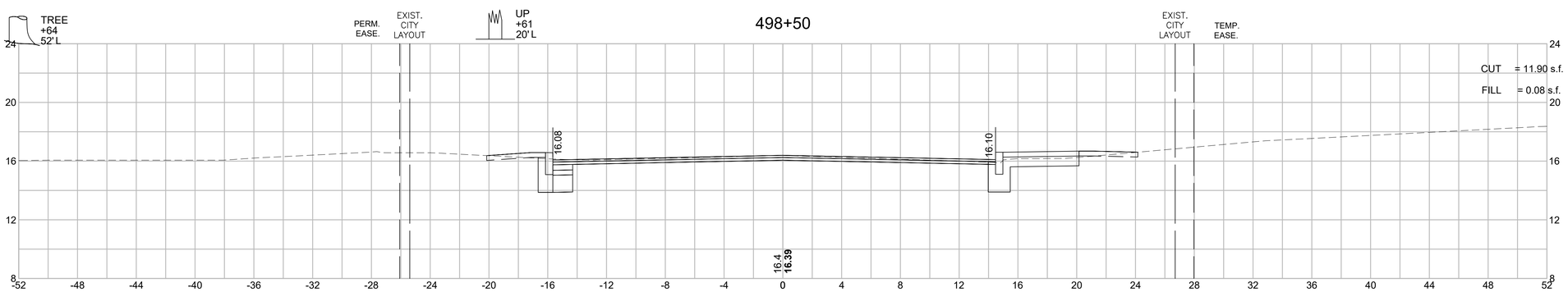
CROSS SECTIONS
LONGMEADOW ROAD

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:11 PM

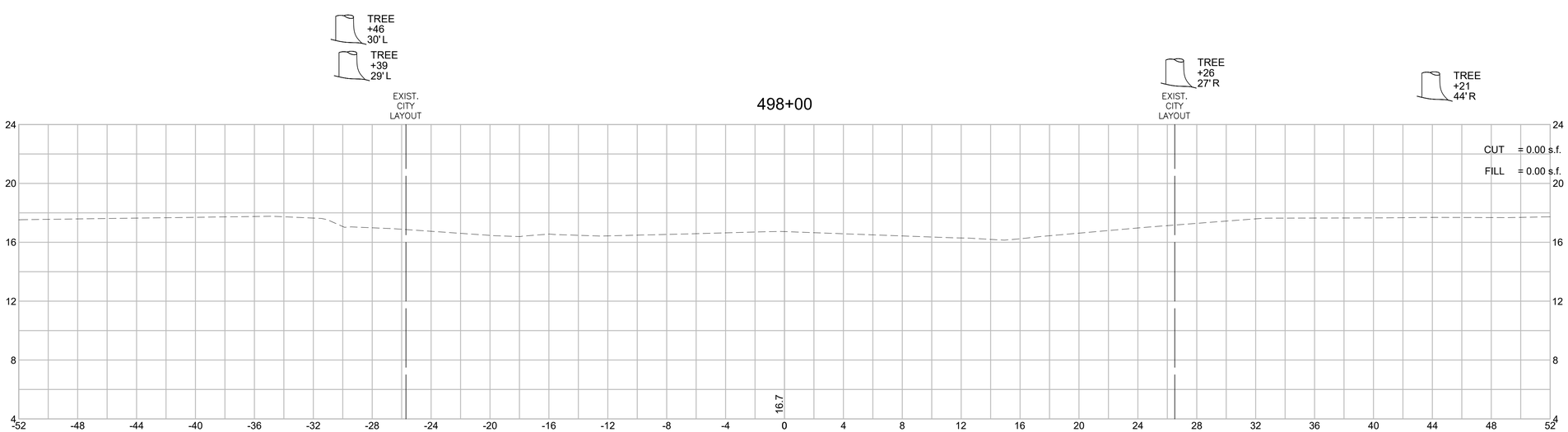
498+68



498+50



498+00

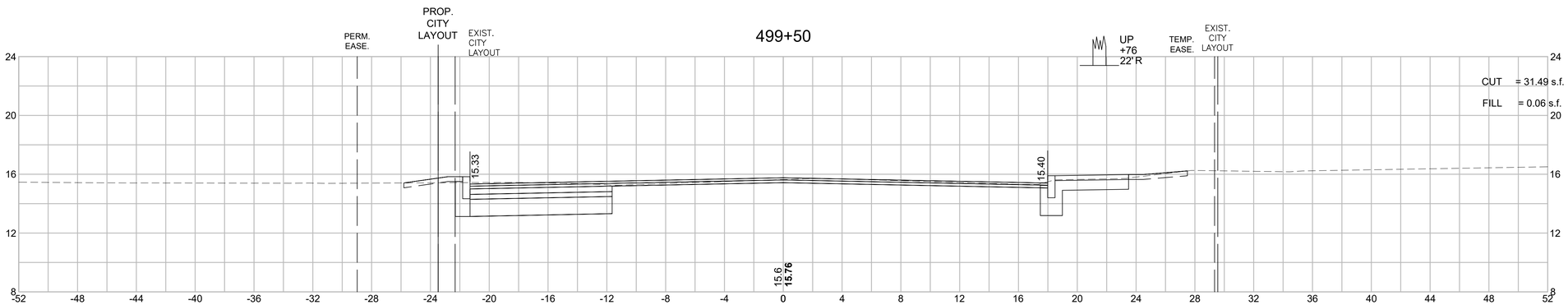


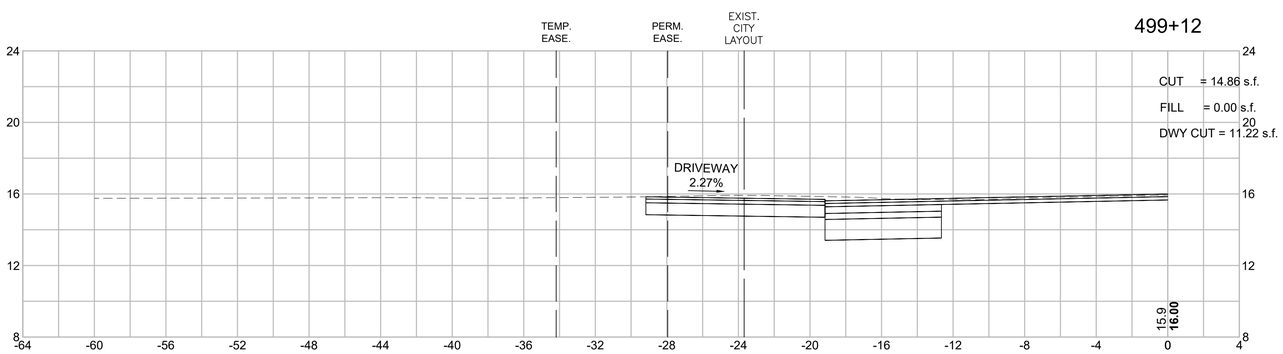
HOR. SCALE IN FEET
VER. SCALE IN FEET

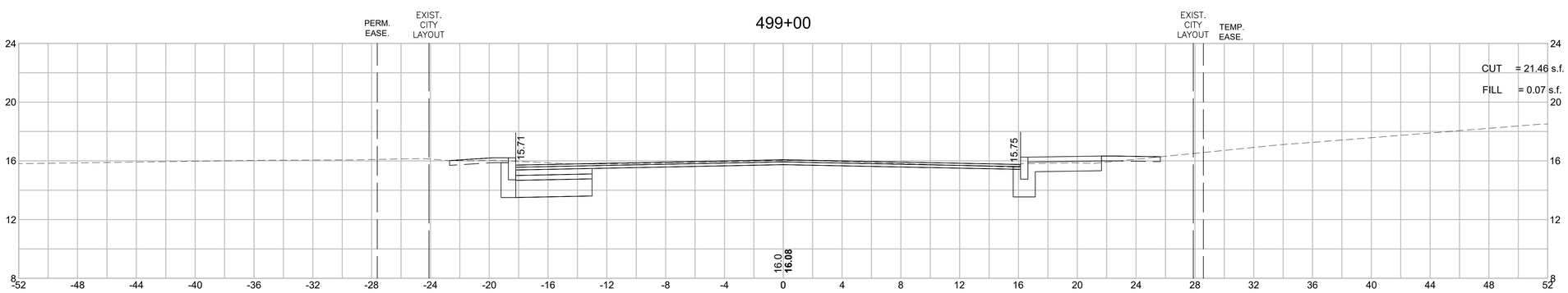
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	179	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
LONGMEADOW ROAD







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

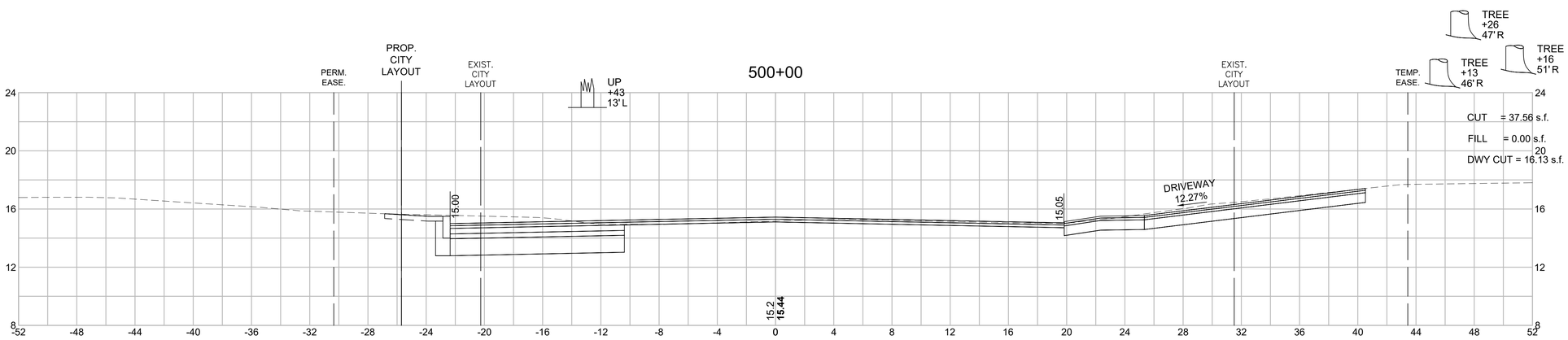
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:11 PM

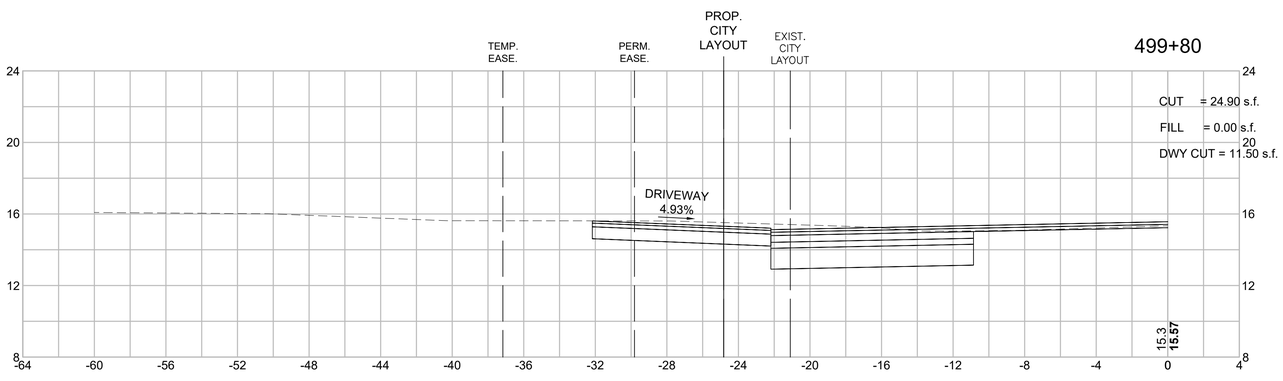
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	180	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
LONGMEADOW ROAD

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:12 PM



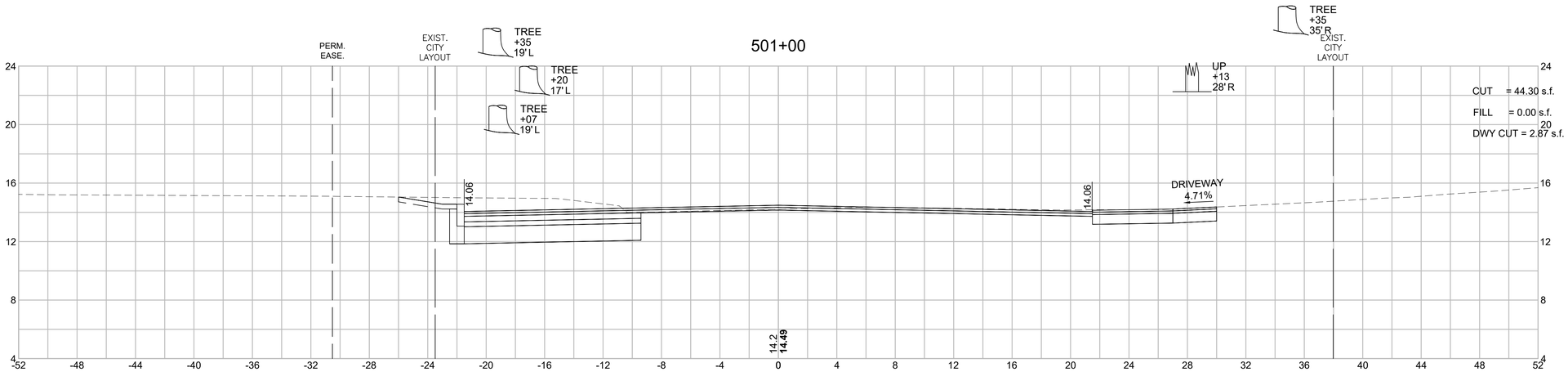


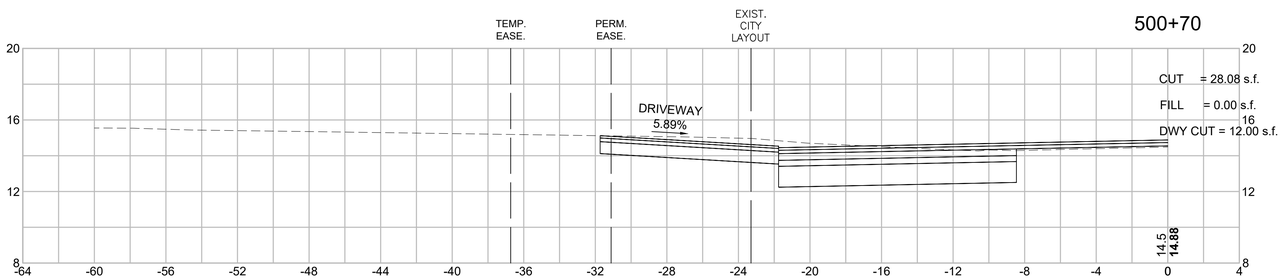
HOR. SCALE IN FEET
VER. SCALE IN FEET

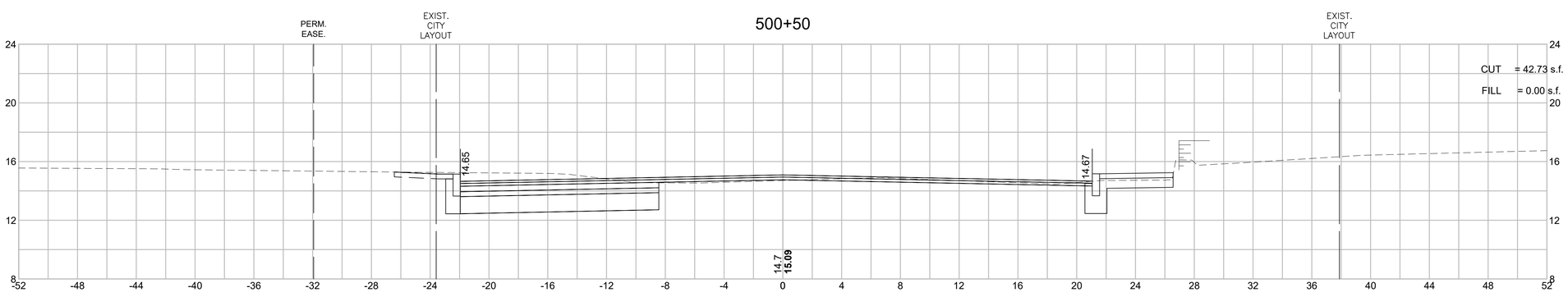
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	181	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
LONGMEADOW ROAD







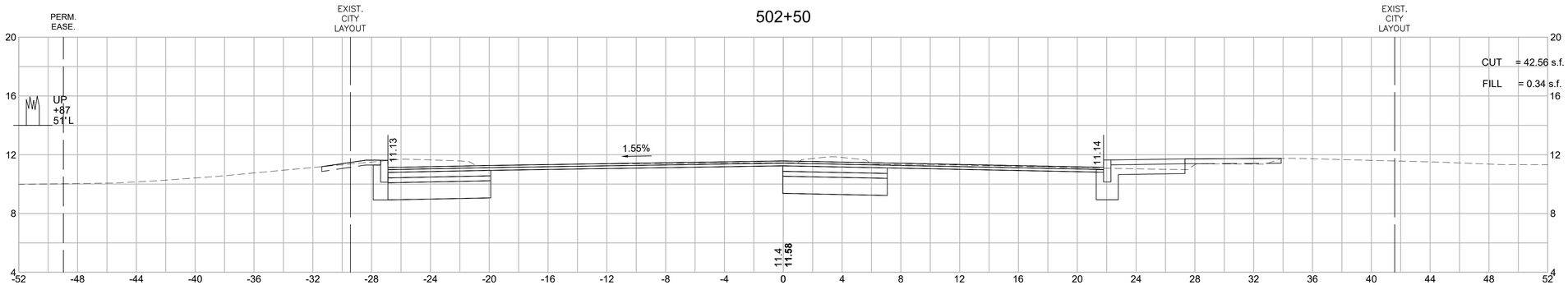
HOR. SCALE IN FEET
VER. SCALE IN FEET

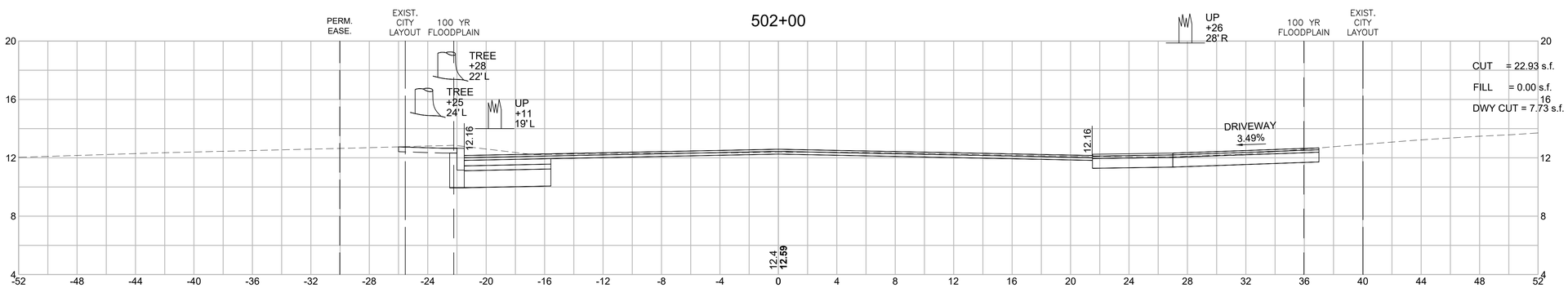
606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:12 PM

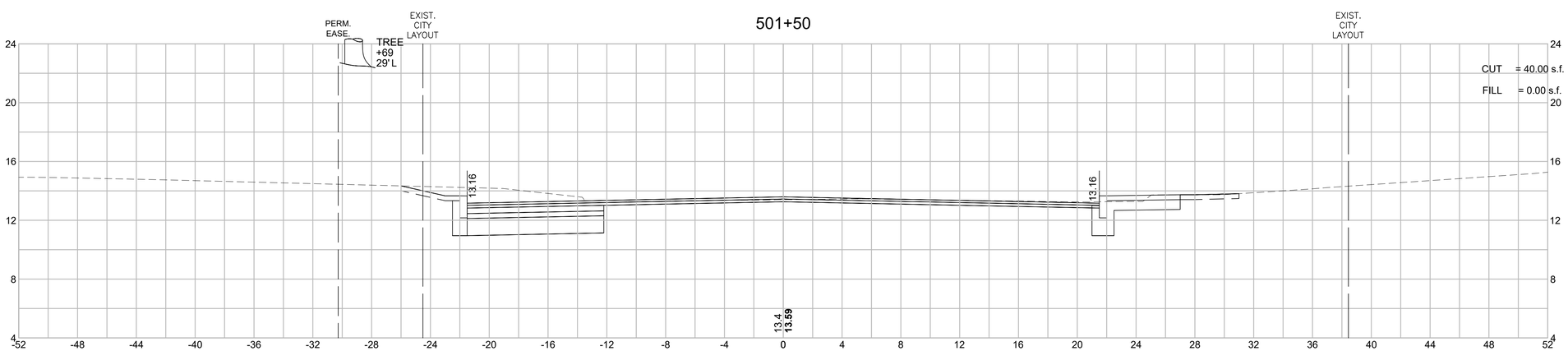
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	182	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
LONGMEADOW ROAD







HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:12 PM

TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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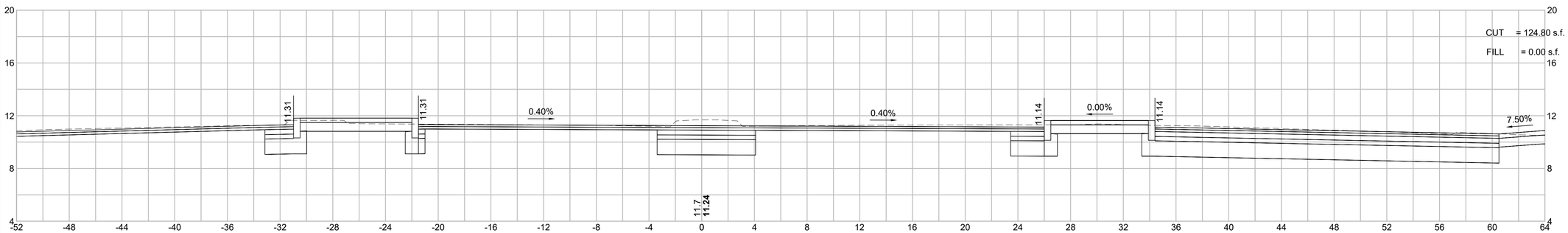
PROJECT FILE NO.	606024		

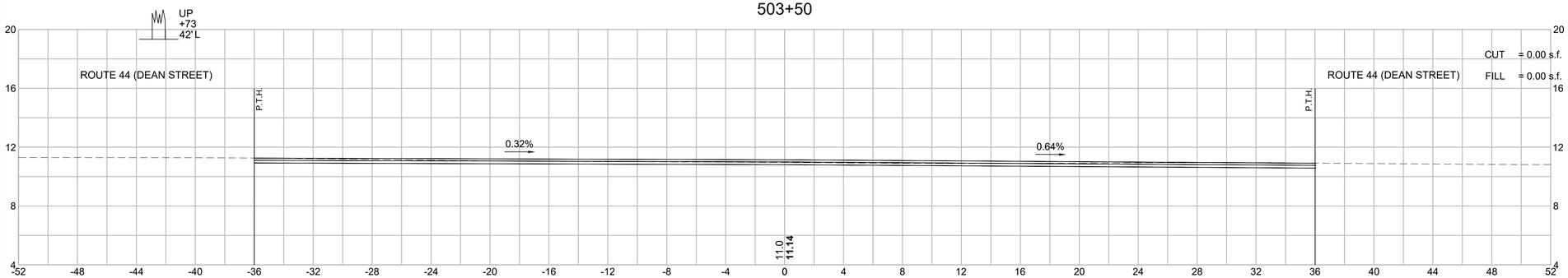
CROSS SECTIONS
LONGMEADOW ROAD

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:12 PM

504+00



503+50



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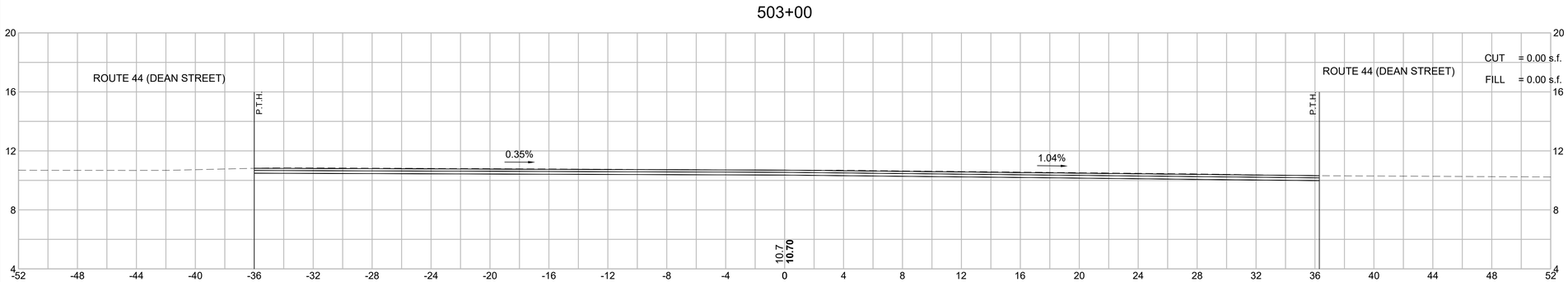


HOR. SCALE IN FEET
VER. SCALE IN FEET

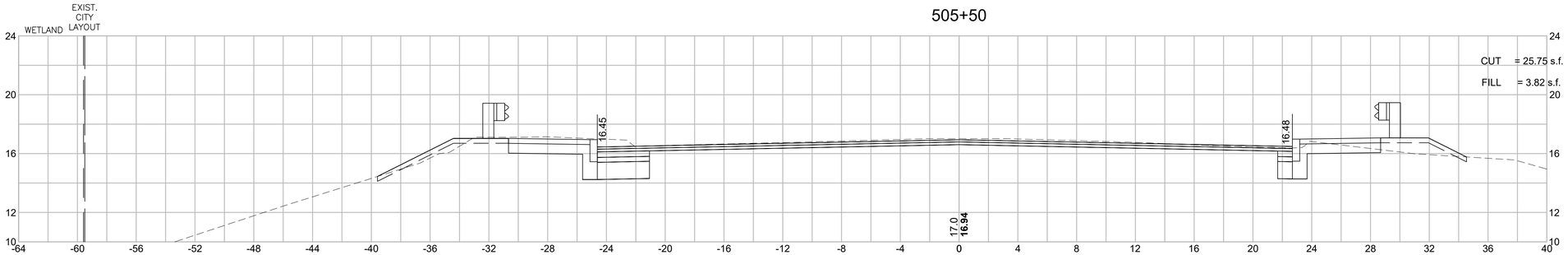
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	184	185
PROJECT FILE NO.	606024		

CROSS SECTIONS
HONORABLE GORDON M. OWENS
RIVERWAY

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:13 PM

505+50



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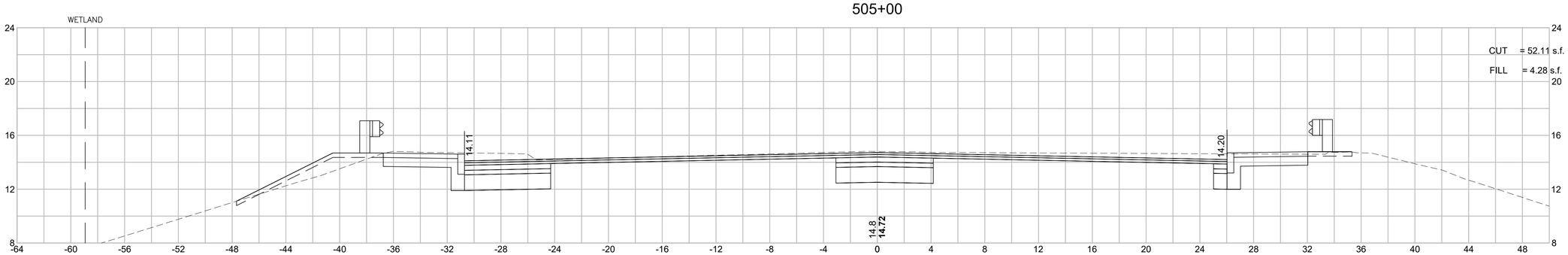

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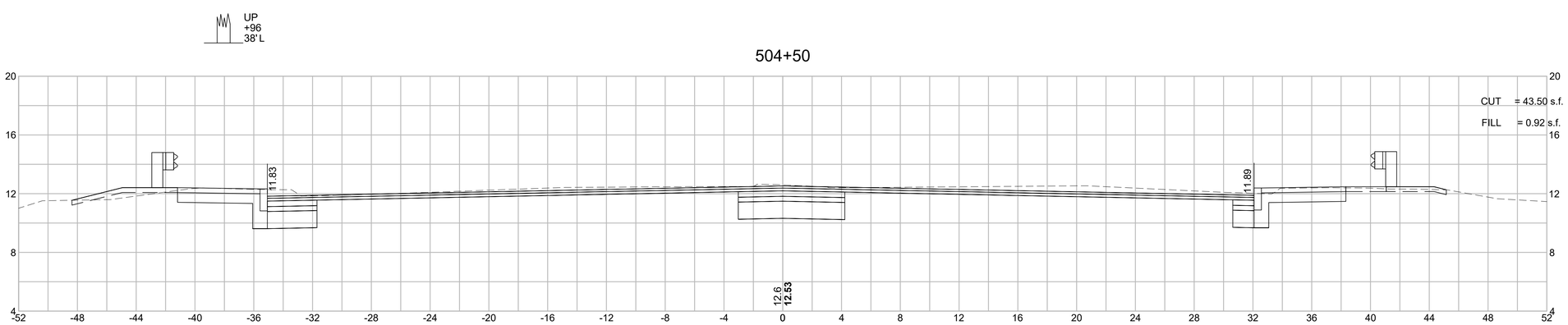


HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

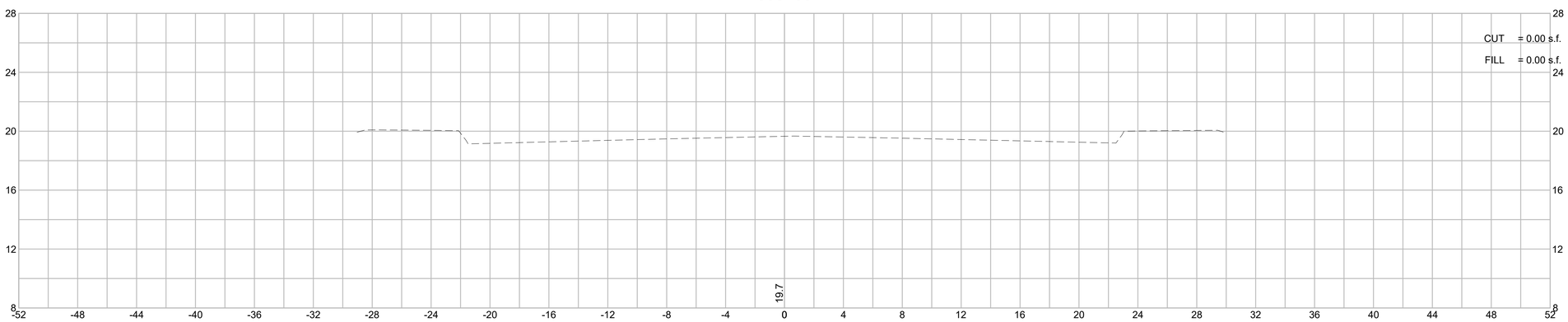
TAUNTON
ROUTE 44 (DEAN STREET)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/HPP/CMQ-0035(015)X	185	185
PROJECT FILE NO.	606024		

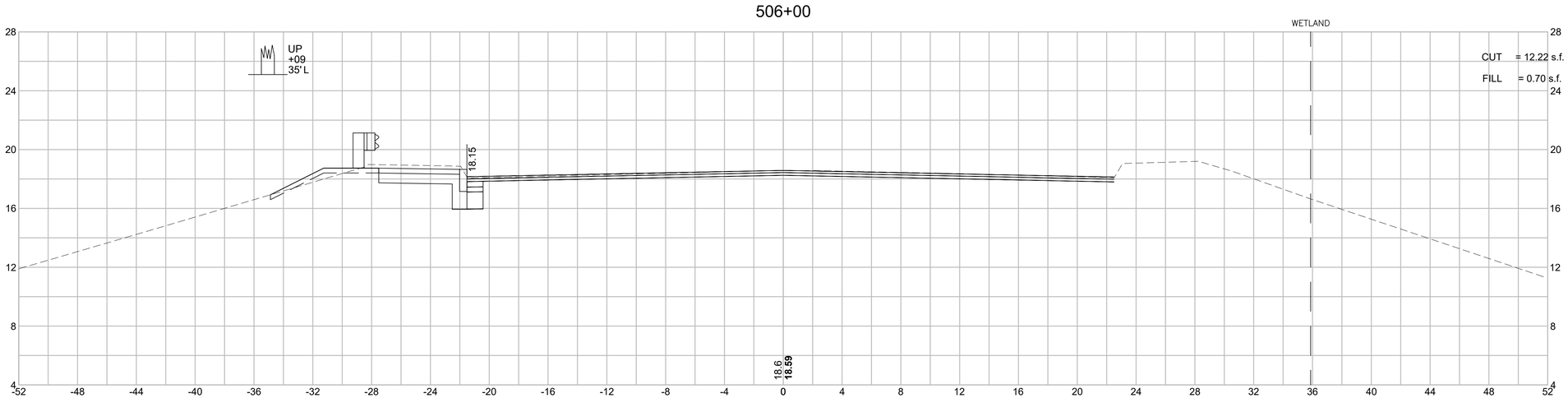
CROSS SECTIONS
HONORABLE GORDON M. OWENS
RIVERWAY

606024_HD_(XS).DWG Plotted on 26-Aug-2022 6:13 PM

506+50



506+00



HOR. SCALE IN FEET
VER. SCALE IN FEET