MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

WAREHAM MARION ROAD (ROUTE 6)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	1	131
PROJECT FILE NO.	610647		

TITLE SHEET & INDEX

PLAN AND PROFILE OF

MARION ROAD

(ROUTE 6)

IN THE TOWN OF

WAREHAM

PLYMOUTH COUNTY

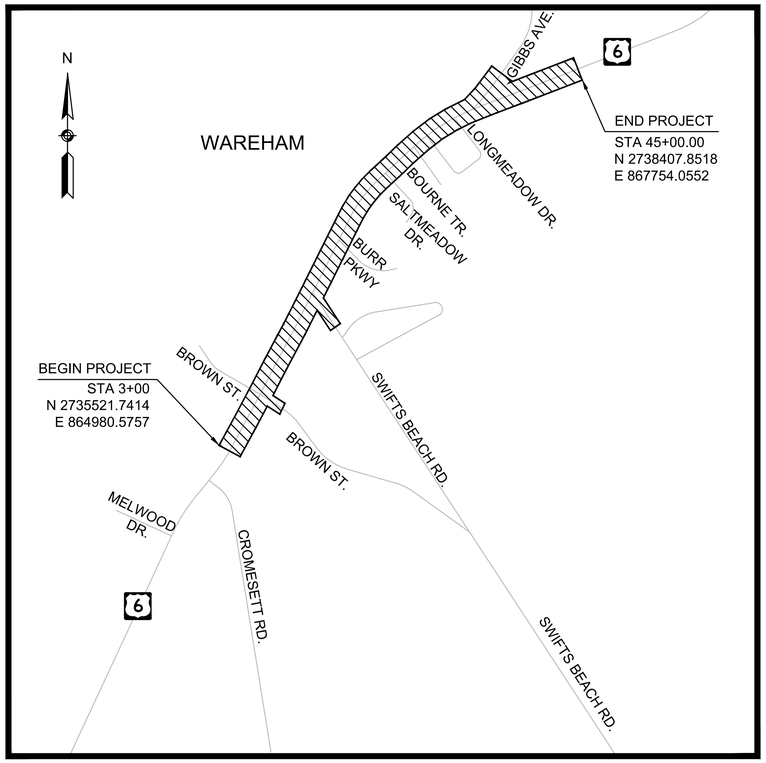
FEDERAL AID PROJECT NO.

STP-0035(068)X

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS INDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK

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0 600 1000 2000 3000

SCALE: 1" = 600'

LENGTH OF PROJECT = 4,200.00 FEET = 0.795 MILES

DESIGN DESIGNATION

DESIGN SPEED	40 MPH
ADT (2020)	13,859
ADT (2030)	15,314
K	9.9%
D	53.0%
T (PEAK HOUR)	4.5%
T (AVERAGE DAY)	3.0%
DHV (2030)	1,520
DDVH (2030)	450
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

DATE	DESCRIPTION	REV #

COMMONWEALTH OF MASSACHUSETTS JAMES P. ANTONIZICK CIVIL No. 50591 REGISTERED PROFESSIONAL ENGINEER

James Antonizick Digitally signed by James Antonizick Date: 2026.02.27 13:32:32 -05'00'

TETRA TECH
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

massDOT Massachusetts Department of Transportation Highway Division

APPROVED

Carrie Lavallee, P.E. Digitally signed by Carrie Lavallee, P.E. Date: 2026.03.01 20:28:15 -05'00' 03/01/2026

CHIEF ENGINEER **DATE**

610647_HD01(TITLE).DWG Plotted on 27-Feb-2026 11:48 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
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
x	x	CHAIN LINK OR METAL FENCE
		WOOD OR PICKET FENCE
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING 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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		BILLBOARD
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	12" SL	12" STOP LINE
	CW	CROSSWALK
	6" SWL	6" SOLID WHITE LINE
	12" SWL	12" SOLID WHITE LINE
	6" SYL	6" SOLID YELLOW LINE
	12" SYL	12" SOLID YELLOW LINE
	6" DBWL	6" DOUBLE WHITE LINE
	6" DBYL	6" DOUBLE YELLOW LINE
	6" BWL	6" BROKEN WHITE LINE
	6" BYL	6" BROKEN YELLOW LINE
	6" DWL	6" DOTTED WHITE LINE (2' LINE, 2' GAP)
	6" DYL	6" DOTTED YELLOW LINE (2' LINE, 2' GAP)
	6" DWLEx	6" DOTTED WHITE LINE EXTENSION (2' LINE, 6' GAP)
	6" DYLEx	6" DOTTED YELLOW LINE EXTENSION (2' LINE, 6' GAP)
	12" DWL	12" DOTTED WHITE LINE (3' LINE - 9' GAP)
	12" DYL	12" DOTTED YELLOW LINE (3' LINE - 9' GAP)

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BCB	BITUMINOUS CONCRETE BERM
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GICI	GUTTER INLET WITH CURB INLET
GIP	GALVANIZED IRON PIPE
GR	GUARDRAIL
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LO	LAYOUT
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	2	131
	PROJECT FILE NO. 610647		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
PCR	PEDESTRIAN CURB RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

610647_HD02(LEGEND).DWG Plotted on 3-Mar-2026 8:19 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	3	131
	PROJECT FILE NO.	610647	

GENERAL NOTES

610647_HD03(NOTES).DWG Plotted on 3-Mar-2026 8:19 AM

GENERAL NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION.

2. WHERE THE NEW CONSTRUCTION COINCIDES WITH PRESENT TRAVELED WAYS, THE CONTRACTOR SHALL PERFORM THEIR WORK IN A MANNER ACCEPTABLE TO THE ENGINEER SO THAT INTERFERENCE TO BUSINESS CONCERNS AND ABUTTERS, ON ACCOUNT OF THE CONSTRUCTION WORK, IS KEPT TO A MINIMUM. THE CONTRACTOR WILL NOT BE ALLOWED TO PARK EQUIPMENT OR STOCKPILE MATERIAL ON THE TRAVELED WAYS OVERNIGHT OR WHEN NOT IN USE. THE CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ACCESS TO AND FROM ABUTTING PROPERTIES AT ALL TIMES AT NO ADDITIONAL COST.

3. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY LOCATIONS OF EXISTING UTILITIES AS INDICATED OR AS DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES DOING WORK IN THE SAME AREA. THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO INSTALL THEIR SYSTEMS WITHIN MASSDOT AND/OR CITY OWNED STREETS AND EASEMENTS.

5. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED UNLESS SHOWN AND LABELED ON PLANS WITHOUT AUTHORIZATION FROM THE ENGINEER.

6. THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.

7. FINAL LOCATION OF TRAFFIC SIGNS AND SUPPORTS SHALL BE SHOWN ON THE TRAFFIC PLAN AND MAY, IF NECESSARY, AT DISCRETION OF THE ENGINEER, BE MODIFIED IN THE FIELD AS APPROPRIATE.

8. DETAILS FOR SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH MASSDOT STANDARD DRAWINGS.

9. DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND ACCEPTANCE OF THE PROPERTY OWNER.

10. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT THEIR OWN EXPENSE IF NOT OTHERWISE SPECIFIED, OUTSIDE OF THE PROJECT LIMITS.

11. ALL EXISTING TOWN OF WAREHAM CASTINGS SUCH AS WATER BOXES, CURB STOPS, FRAMES AND COVERS FOR DRAINAGE AND SEWER MANEHOLES, CATCH BASIN FRAME AND GRATES AND OTHER CASTINGS SHALL BE ADJUSTED BY THE CONTRACTOR TO LINE AND GRADE AS DIRECTED BY THE ENGINEER UNLESS OTHERWISE SPECIFIED ON THE CONTRACT PLANS. PRIVATE UTILITY CASTINGS SUCH AS GAS GATES, FRAME AND COVERS FOR TELEPHONE MANHOLES, ETC. SHALL BE ADJUSTED BY THE UTILITY OWNER.

12. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL UTILITIES THROUGHOUT THE PROJECT SO THAT THE VARIOUS UTILITY OWNERS HAVE ACCESS TO VAULTS AND MANHOLES TO OPERATE VALVES AND OTHER CONTROLS ON THEIR SYSTEM.

13. THE LOCATIONS OF PROPOSED PIPELINES, STRUCTURES AND UTILITY RELOCATIONS MAY BE MODIFIED TO SUIT FIELD CONDITIONS AT THE DISCRETION OF THE ENGINEER.

14. OFFSETS TO CATCH BASINS ARE TO THE CENTER OF THE GRATE AT FACE OF CURB.

15. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, THEY SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE OR REPAIR, UNLESS INDICATED OTHERWISE BY THE RESPECTIVE UTILITY OWNER.

16. ALL PROPOSED DRAINAGE CONNECTIONS TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF INSTALLATION OF THE NEW PIPE OR STRUCTURE.

17. RIM ELEVATIONS MAY BE SUBJECT TO FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER. ELEVATIONS ON CATCH BASINS ARE REFERENCED TO THE CENTER OF GRATE AT FACE OF CURB.

18. WHERE WATERLINES, DRAINAGE PIPES OR STRUCTURES ARE ABANDONED IN PLACE, CONTRACTOR SHALL MAKE SURE THAT ALL CONNECTING PIPES, INLETS AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO THE NEW SYSTEM.

19. ALL PEDESTRIAN CURB RAMPS SHALL CONFORM TO THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES. SEE LATEST MASSDOT CONSTRUCTION STANDARDS.

20. IN ALL LOCATIONS WHERE PROPOSED SIDEWALK TRANSITIONS TO MEET EXISTING GRADE, SIDEWALK OR PAVED AREA, SLOPE SHALL NOT EXCEED 8%.

21. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.)

22. EXISTING CURB (GRANITE AND CONCRETE) IN GOOD CONDITION SHALL BE RESET. NEW CURB SHALL BE USED ONLY AFTER ALL EXISTING CURB HAS BEEN RESET. ALL RESET CURB/EDGING IS TO BE USED CONTIGUOUSLY. ALL NEW CURB/EDGING WILL BE INSTALLED CONTIGUOUSLY. ALTERNATING NEW AND OLD MATERIALS WILL NOT BE ACCEPTABLE, WITH THE EXCEPTION OF TRANSITION CURB, CURB INLETS OR CURVED CURB OF A DIFFERENT RADIUS.

23. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN WITHIN THE PROJECT LIMITS SHALL BE CLEANED AND SEDIMENT DISPOSED OF UNDER PAY ITEM 227.3. PIPES TO REMAIN WITHIN THE PROJECT LIMITS WILL BE CLEANED AS NEEDED AND THE SEDIMENT DISPOSED OF UNDER PAY ITEM 227.31.

24. 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 OF THE STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE AND 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.

25. CHAIN LINK FENCE REMOVED AND RESET SHALL INCLUDE REMOVAL AND DISPOSAL OF CHAIN LINK FENCE AND APPURTENANCES NOT SUITABLE FOR RESETTING.

26. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING (IF RECIPROCAL OR WITHIN PROJECT LIMITS) ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.

27. PER SECTION 5.3.2 OF THE PDDG ALL DRAINAGE CASTINGS SHALL BE SET FLUSH WITH THE FINISHED GRADE WHERE SHOULDERS ARE 5' OR LESS IN WIDTH.

28. ALL PROPOSED CATCH BASINS SHALL HAVE A 4' (MIN.) DEEP SUMP.

SURVEY NOTES

1. FIELD SURVEY PERFORMED BY A-PLUS CONSTRUCTION SERVICES CORPORATION ON MARCH 9TH, 2020 AND SUPPLEMENTED BY MASSDOT IN MAY, 2021.

2. HORIZONTAL CONTROL BASED ON MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, NAD83(2011) EPOCH 2010.00.

3. ELEVATION REFERS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

UTILITY ENGINEERING NOTES

1. AN OVERHEAD/SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE) WAS PERFORMED BY OVERLAND ENGINEERING, LLC AND COMPLETED IN NOVEMBER 2023 FOR THIS PROJECT. THE EXISTING UNDERGROUND FACILITIES SHOWN HEREON WERE INCLUDED IN THIS SUE INVESTIGATION. THE PRESENCE OF THESE UTILITY FACILITIES HAS BEEN THOROUGHLY INVESTIGATED.

2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERING'S DOCUMENT ASCE 38-22 "STANDARD GUIDELINE FOR THE INVESTIGATION AND DOCUMENTING EXISTING UTILITIES".

3. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUES, POLICIES, AND/OR PROCEDURES DURING CONSTRUCTION.

4. THE SIZE/TYPE OF FIRE HYDRANT LINES IS ASSUMED TO BE 6" IN DIAMETER THROUGHOUT THE PROJECT LIMITS.

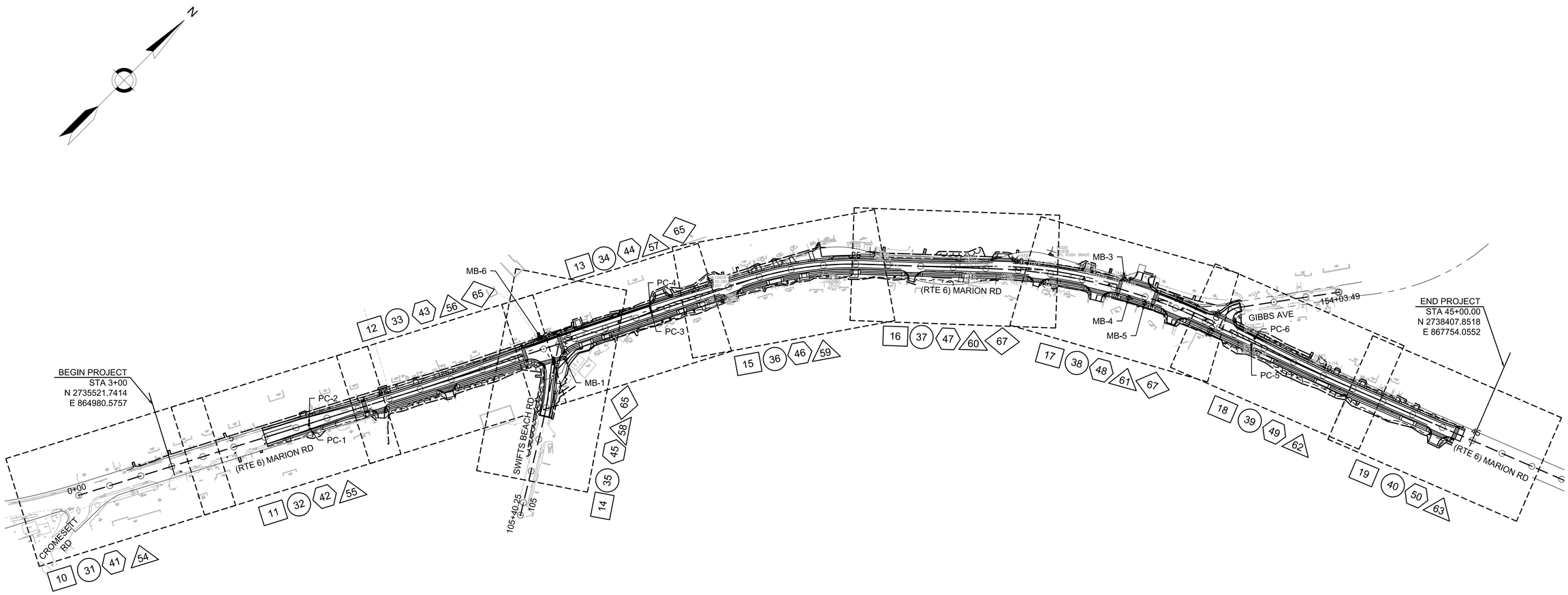
5. UTILITIES RANGING IN SIZE FROM 0.5"-10" IN DIAMETER OR MINIMUM WIDTH, ARE DEPICTED HEREIN AS SINGLE WIDTH LINE TYPES. UTILITIES RANGING IN SIZE 12" AND ABOVE, ARE DEPICTED WITH MULTI-LINES, THE WIDTH OF WHICH IS BASED ON REVIEW OF RECORDS, PROFESSIONAL JUDGEMENT, OR OTHER INFORMATION. IN SOME INSTANCES, UTILITIES LARGER THAN 1 FOOT MAY BE SHOWN AS SINGLE LINES WITHOUT APPROXIMATE WIDTH AT THE ENGINEERS DISCRETION WHERE UTILITY DENSITY WOULD OTHERWISE PREVENT A CLEAR DEPICTION OF THE SUE INFORMATION.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	4	131
	PROJECT FILE NO. 610647		

KEY PLAN

610647_HD04(KEY).DWG Plotted on 3-Mar-2026 8:20 AM



LEGEND

- # CONSTRUCTION PLANS
- # CURB TIE AND GRADING PLANS
- # UTILITY AND DRAINAGE PLANS
- # SIGNING AND PAVEMENT MARKING PLANS
- # TRAFFIC SIGNAL PLANS
- ● PAVEMENT CORE LOCATIONS
- ⊗ MAST ARM BORING LOCATIONS

150 0 150 300
SCALE IN FEET
1"=150'

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

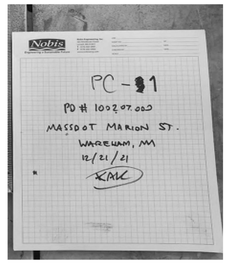
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SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

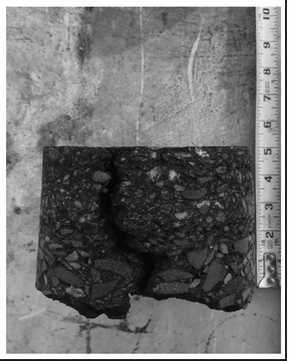
Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 11.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	11:00 AM
Weather	Partly Cloudy, 30s			Time End	1:00 PM
				Date	12/21/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 6.0-inches thick.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8		
1.0	Fill	Fill encountered.

End of Pavement Coring. Please refer to Boring PC-1 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-1.





Notes:
1. PC-1 was performed to a depth of 5 feet bgs (refer to boring log PC-1 or details regarding soil conditions.
2. PC-1 was backfilled and compacted with excavated spoils and excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. Groundwater encountered at 3.5 feet bgs.

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

TEST PIT NO. **PC-2**
SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 11.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	9:00 AM
Weather	Partly Cloudy, 30s			Time End	11:00 AM
				Date	12/21/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 6.0-inches thick.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8		
1.0	Fill	Fill encountered.

End of Pavement Coring. Please refer to Boring PC-2 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-2.





Notes:
1. PC-2 was performed to a depth of 5 feet bgs (refer to boring log PC-2 or details regarding soil conditions.
2. PC-2 was backfilled and compacted with excavated spoils and excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. Groundwater encountered at 4 feet bgs.

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

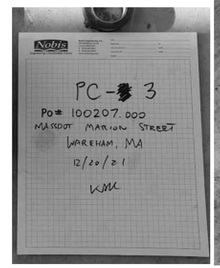
TEST PIT NO. **PC-3**
SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

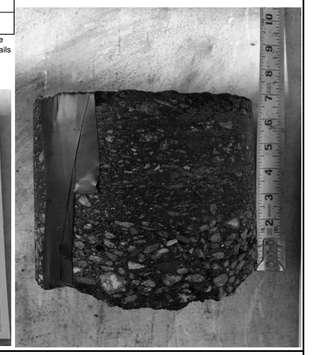
Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 17.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	1:50 PM
Weather	Sunny, 20s - 30s			Time End	3:10 PM
				Date	12/20/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 6.6-inches thick.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8		
1.0	Fill	Fill encountered.

End of Pavement Coring. Please refer to Boring PC-3 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-3.





Notes:
1. PC-3 was performed to a depth of 5 feet bgs (refer to boring log PC-3 or details regarding soil conditions.
2. PC-3 was backfilled and compacted with excavated spoils and excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. No groundwater encountered.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	5	131
PROJECT FILE NO.	610647		

PAVEMENT CORE LOGS

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

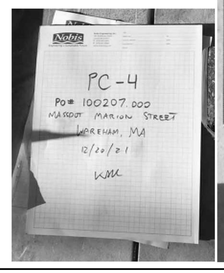
TEST PIT NO. **PC-4**
SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 17.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	12:25 PM
Weather	Sunny, 20s			Time End	1:50 PM
				Date	12/20/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 5.0-inches thick. Edge of pavement core eroded during retrieval.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8	Fill	Fill encountered.
1.0		

End of Pavement Coring. Please refer to Boring PC-4 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-4.





Notes:
1. PC-4 was performed to a depth of 5 feet bgs (refer to boring log PC-4 or details regarding soil conditions.
2. PC-4 was backfilled and compacted with excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. No groundwater encountered.

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

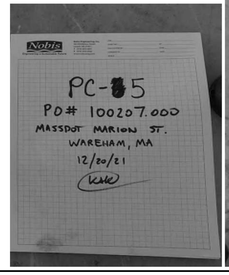
TEST PIT NO. **PC-5**
SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 25.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	10:30 AM
Weather	Sunny, 20s			Time End	11:45 AM
				Date	12/20/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 6.7-inches thick.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8	Fill	Fill encountered.
1.0		

End of Pavement Coring. Please refer to Boring PC-5 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-5.





Notes:
1. PC-5 was performed to a depth of 5 feet bgs (refer to boring log PC-5 or details regarding soil conditions.
2. PC-5 was backfilled and compacted with excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. No groundwater encountered.

PAVEMENT CORE LOG

nobis

PROJECT
MassDOT Marion Road (Route 6)
Wareham, Massachusetts

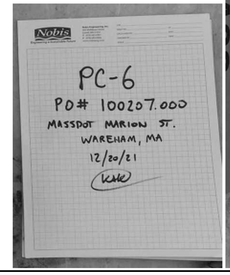
TEST PIT NO. **PC-6**
SHEET 1 of 1
FILE NO. 100207.00
CHKD. BY S. Kurtzer

Engineer	K. Kocia	Make	Thin-wall Core Barrel	Ground El.	± 25.0
Contractor	New England Boring Contractors	Diameter	6 inches	Datum	NAVD-88
Operator	Jerry Voight	Depth	1 feet	Time Start	9:00 AM
Weather	Sunny, 10s - 20s			Time End	10:30 AM
				Date	12/20/2021

Depth Below Grade (ft)	Strata Change & Water Level	Subsurface Description
0.2	Pavement Core	Asphalt, 6.8-inches thick.
0.4		
0.6	Base Course	Base Course approximately 3-inches thick, consisting primarily of Fine to Coarse Gravel.
0.8	Fill	Fill encountered.
1.0		

End of Pavement Coring. Please refer to Boring PC-6 for further details of soils encountered.

Photo 1: Pavement Core extracted from PC-6.





Notes:
1. PC-6 was performed to a depth of 5 feet bgs (refer to boring log PC-6 or details regarding soil conditions.
2. PC-6 was backfilled and compacted with excavated spoils and filter sand to 6-inches below ground surface (bgs). Backfilled and compacted with asphalt cold patch to ground surface.
3. No groundwater encountered.

610647_HD(TBL01).DWG Plotted on 3-Mar-2026 8:20 AM

BORING LOG

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: **MB-1**
Boring Location: See exploration location plan
N: 2736617.00 E: 865598.00
Checked by: S. Kurtzer
Date Start: April 5, 2023
Date Finish: April 6, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 20
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/06/23	11:19	11.9	23	25	5 Min

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	8	0.5-2.5	13			ASPHALT 19.5 / 0.5	Approximately 6 inches of asphalt.	
				10				S-1: Medium dense, orange-brown, fine to coarse SAND and Silt, little fine Gravel. Moist to wet.	1
2				9					
				7			FILL		
3	S-2	1	2.5-4.5	6				S-2: Medium dense, brown, fine to coarse SAND, some fine Gravel, trace Silt. Moist to wet.	
				7					
4				7					
				8				S-3: Medium dense, brown, fine to coarse SAND, little fine Gravel, little Silt. Moist.	
5	S-3	1	4.5-6	10					
				7					
6				9			14.0 / 6.0		
	S-4	20	6-8	9				S-4: Medium dense, tanish brown, fine SAND, some Silt. Moist.	
7				6					
				5					
8				5					
	S-5	8	8-10	3				S-5: Loose, light brown, fine SAND, some Silt. Moist to wet.	
9				3					
				5					
10				5					
11					▼		COARSE DEPOSITS		
12									
13									
	S-6	11	13-15	2				S-6: Loose, tanish brown, fine SAND, some Silt. Wet.	
14				4					
				3					
15				3					
16									
17									
18									
	S-7	4	18-20	3				S-7: Loose, light brown, fine SAND, some Silt. Wet.	
19				4					
				5					
20				7					

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 into bore hole while coring asphalt pavement.

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

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: MB-1
Boring Location: See exploration location plan
N: 2736617.00 E: 865598.00
Checked by: S. Kurtzer
Date Start: April 5, 2023
Date Finish: April 6, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 20
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/06/23	11:19	11.9	23	25	5 Min

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
21							COARSE DEPOSITS		
22									
23									
	S-8	13	23-25	4				S-8: Medium dense, light brown, fine SAND, some Silt. Wet.	
24				4					
				7					
25				9			-5.0 / 25.0		
								Boring terminated at 25 feet.	2
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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 cuttings, sand, and cold patch upon completion.

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

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: **MB-3**
Boring Location: See exploration location plan
N: 2738014.00 E: 866646.00
Checked by: S. Kurtzer
Date Start: April 4, 2023
Date Finish: April 4, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa/R. Clopper

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 22
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/04/23	12:15	11.6	23	26	15 Min

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	24	0-2	3			TOPSOIL 21.5 / 0.5	S-1A (6"): Medium dense, dark brown, fine to coarse SAND & Organic SILT, trace fine Gravel, several pieces of grass. Moist.	
				14				S-1B (18"): Medium dense, brown, fine to coarse SAND, little fine to coarse Gravel, little Silt. Moist.	
2				12					
	S-2	21	2-4	9			FILL	S-2: Medium dense, dark brown, fine to coarse SAND, little Silt. Dry.	
3				6					
				6					
4				4					
	S-3	21	4-6	4			17.3 / 4.7	S-3A (8"): Medium dense, dark brown, fine to coarse SAND, several pieces of root fibers. Moist.	1
5				6					
				8				S-3B (13"): Medium dense, light gray, fine to medium SAND, little fine Gravel, some Silt, Slight petroleum odor, redoximorphic staining in sample. Moist.	
6				10					
	S-4	23	6-8	8				S-4: Medium dense, light gray, SILT and fine to coarse Sand. Moist. [Laboratory Testing Analysis - Grain Size Sieve Only: 0% Gravel, 36.8% Sand, 63.2% Fines].	
7				9					
				17					
8				15					
	S-5	15	8-10	11				S-5: Medium dense, light gray, fine SAND and Silt. Wet.	
9				12					
				10					
10				9					
11					▼				
12							COARSE DEPOSITS		
13									
14									
	S-6	16	14-16	3				S-6: Very loose, brown, fine to coarse SAND, some Silt. Wet.	
15				2					
				1					
16				1					
17									
18									
	S-7	10	18-20	19				S-7: Medium dense, light gray, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet.	
19				16					
				14					
20				14					

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 during drive and wash process at 4 feet bgs.

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

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: MB-3
Boring Location: See exploration location plan
N: 2738014.00 E: 866646.00
Checked by: S. Kurtzer
Date Start: April 4, 2023
Date Finish: April 4, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa/R. Clopper

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 22
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/04/23	12:15	11.6	23	26	15 Min

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
21							COARSE DEPOSITS		
22									
23									
24									
	S-8	9	24-26	20				S-8: Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet.	
25				17					
				16					
26				18			-4.0 / 26.0		
								Boring terminated at 26 feet.	2
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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

NOTES:
2) Boring backfilled with soil cuttings and sand upon completion.

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

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: **MB-4**
Boring Location: See exploration location plan
N: 2737981.00 E: 866710.00
Checked by: S. Kurtzer
Date Start: April 4, 2023
Date Finish: April 5, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 22
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/05/23	09:41	10.1	21	26	10 Min

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	5	0.5-2.5	30			ASPHALT 21.5 / 0.5	Approximately 6 inches of asphalt.	
				13				S-1: Medium dense, brown-gray, fine to coarse SAND, little fine to coarse Gravel, little Silt. Wet.	
2				12					
				7			FILL		
3	S-2	5	2.5-4.5	4				S-2: Very loose, dark brown, fine to coarse SAND, little fine to coarse Gravel, little Silt. Moist.	
				1					
4				1			18.0 / 4.0		
				3					1
5	S-3	22	4.5-6	8				S-3: Medium dense, brown, SILT. Moist. [Laboratory Testing Analysis - Grain Size Sieve Only: 0% Gravel, 4.4% Sand, 95.6% Fines].	
				10					
6				8					
	S-4	14	6-8	6				S-4: Medium dense, brown, fine SAND and Silt. Moist.	
7				9					
				13					
8				12					
	S-5	6	8-10	15				S-5: Medium dense, brown, fine SAND and Silt. Wet.	
9				10					
				5					
10				9					
11					▼				
12							COARSE DEPOSITS		
13									
	S-6	8	13-15	10				S-6: Dense, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet.	
14				19					
				16					
15				13					
16									
17									
18									
19									
	S-7	11	19-21	7				S-7A (5"): Medium dense, light brown, fine to coarse SAND, little fine Gravel, little Silt. Wet.	
20				13				S-7B (6"): Medium dense, brown, fine to coarse SAND, some fine Gravel, trace 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 into bore hole while coring asphalt pavement.

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

nobis

Project: Marion Road (Route 6)
Location: Wareham, MA
Nobis Project No.: 100207.100

Boring No.: MB-4
Boring Location: See exploration location plan
N: 2737981.00 E: 866710.00
Checked by: S. Kurtzer
Date Start: April 4, 2023
Date Finish: April 5, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa

Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic

Ground Surface Elev.: (+/-) 22
Datum: NAVD 88

Type	Drilling Method: Casing	Sampler: 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
▼ 04/05/23	09:41	10.1	21	26	10 Min

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
				17					
21				14					
22									
23									
24							COARSE DEPOSITS		
	S-8	12	24-26	8				S-8: Medium dense, light brown, fine to coarse SAND, little fine Gravel, some Silt. Wet.	
25				9					
				9					
26				16			-4.0 / 26.0		
								Boring terminated at 26 feet.	2
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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

NOTES:
2) Boring backfilled with soil cuttings, sand, and cold patch upon completion.

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.

NOTES:

1. BORING MB-2 WAS UNABLE TO BE COLLECTED IN THE FIELD DUE TO UTILITY CONFLICTS. SEE GEOTECHNICAL REPORT FOR RECOMMENDED SOIL TYPE AT MASTARM LOCATION 2.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	6	131
PROJECT FILE NO.	610647		

BORING LOGS

BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE PLAN THUS ◔ #1.
2. BORINGS TAKEN FOR THE 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 TO THE LEFT OF COLUMNS INDICATE DEPTH BELOW SURFACE AT BORING POINT.
5. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS PRODUCED BY A 30" FALL OF 140 POUND MASS HAMMER REQUIRED TO DRIVE 2" I.D. SPOON 1 FOOT.
6. BORING SAMPLE TAKEN APRIL 4-6, 2023, AND NOVEMBER 12, 2024.
7. BORING CONTRACTOR - NOBIS ENGINEERING, 55 RECHNOLOGY DR, LOWELL, MA 01851
8. 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 SECTION AT 10 PARK PLAZA, BOSTON, MA.

610647_HD(TBLD1).DWG Plotted on 3-Mar-2026 8:21 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	7	131
	PROJECT FILE NO.	610647	

BORING LOGS

610647_HD(TBL01).DWG Plotted on 3-Mar-2026 8:21 AM

BORING LOG

nobis

Boring No.: **MB-5**
Boring Location: See exploration location plan
N: 2737998.00 E: 866749.00
Project: Marion Road (Route 6)
Checked by: S. Kurtzer
Location: Wareham, MA
Date Start: April 5, 2023
Nobis Project No.: 100207.100
Date Finish: April 5, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa
Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 22
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
▼ 04/05/23	13:00	9	Out	25	10 Min

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
							ASPHALT 21.5 / 0.5	Approximately 6 inches of asphalt.	
1	S-1	14	0.5-2.5	33				S-1: Dense, light to dark brown, fine to coarse SAND, some fine Gravel, little Silt. Moist.	1
2				15					
				15					
3	S-2	16	2.5-4.5	11				S-2: Medium dense, dark brown and tan, fine to coarse SAND, trace fine Gravel, little Silt. Moist.	
4				5					
				5			FILL		
5	S-3	11	4.5-6	5				S-3: Loose, dark brown, fine to coarse SAND, trace fine Gravel, little Silt. Moist to wet.	
6				3					
				2					
7	S-4	18	6-7.6	5				S-4A (7"): Dense, dark brown, fine to coarse SAND, trace fine Gravel, trace Silt. Moist.	
				9			15.0 / 7.0		
8				11				S-4B (11"): Dense, gray, SILT and fine to medium Sand. Moist. [Laboratory Testing Analysis - Grain Size Sieve Only: 1.8% Gravel, 10.5% Sand, 87.7% Fines].	
				23					
9	S-5	10	8-10	100/1"	▼			S-5: Very dense, dark brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Pulverized rock in spoon. Wet.	
				42					
10				63					
				22					
11				18					
12									
13									
	S-6	8	13-15	9			COARSE DEPOSITS	S-6: Medium dense, brown, fine to coarse SAND, trace fine Gravel, trace Silt. Wet.	
14				12					
				11					
15				11					
16									
17									
18									
	S-7	12	18-20	4				S-7: Loose, brown, fine to coarse SAND, some fine Gravel, little Silt. Redoximorphic staining in sample. Wet.	
19				4					
				5					
20				7					

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 into bore hole while coring asphalt pavement.

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

nobis

Boring No.: **MB-5**
Boring Location: See exploration location plan
N: 2737998.00 E: 866749.00
Project: Marion Road (Route 6)
Checked by: S. Kurtzer
Location: Wareham, MA
Date Start: April 5, 2023
Nobis Project No.: 100207.100
Date Finish: April 5, 2023

Contractor: New England Boring Contractors
Driller: G. Twombly Jr.
Nobis Rep.: T.Watopa
Rig Type / Model: Truck / B-53 Mobile
Hammer Type: Automatic Hammer
Hammer Hoist: Automatic
Ground Surface Elev.: (+/-) 22
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
▼ 04/05/23	13:00	9	Out	25	10 Min

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
21				12					
				18					
22									
23									
24									
	S-8	20	23-25	12			COARSE DEPOSITS	S-8: Medium dense, brown, fine to coarse SAND and Silt, little fine Gravel. Wet.	
25				11					
				19					
26				20			-3.0 / 25.0		
27								Boring terminated at 25 feet.	2
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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

NOTES:
2) Boring backfilled with soil cuttings, sand, and cold patch upon completion.

BORING LOG

nobis

Boring No.: **MB-6**
Boring Location: See exploration location plan N: 2736579.00 E: 865512.00
Project: Marion Road (Route 6)
Checked by: P. Giraldo
Location: Wareham, MA
Date Start: November 12, 2024
Nobis Project No.: 100207.100
Date Finish: November 12, 2024

Contractor: New England Boring Contractors
Driller: N. Stutterd
Nobis Rep.: K. Kocia
Rig Type / Model: ATV / M-2
Hammer Type: Donut Hammer
Hammer Hoist: Rope & Cathead
Ground Surface Elev.: (+/-) 20
Datum: NAVD 88

	Drilling Method	Sampler
Type	Casing	Split-Spoon
Size ID (in.)	3	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
▼ 11/12/24	13:30	7.5	24	28	10 Min

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
							ASPHALT 19.2 / 0.8	Approximately 8.5 inches of asphalt.	1
1									
	S-1	17	1-3	55				S-1A (12"): Dense, brown-tan, fine to coarse SAND, little fine Gravel, trace Silt. Dry.	
2				34					
				11			FILL	S-1B (5"): Dense, brown, fine to coarse SAND, little Silt. Moist.	
3				15					
	S-2	18	3-5	12				S-2A (11"): Dense, brown-gray, fine to coarse SAND, little fine Gravel, little Silt. Faint redoximorphic staining present. Moist.	
4				16					
				19			15.8 / 4.2		
5				26				S-2B (7"): Dense, orangish brown-tan, fine to medium SAND, trace Silt. Redoximorphic staining present. Moist.	
	S-3	8	5-7	16				S-3: Very dense, brown, fine to medium SAND, little Silt. Wet.	2
6				26					
				26					
7				28					
	S-4	18	7-9	14	▼			S-4: Dense, brown, fine to coarse SAND, little Silt. Wet.	
8				20					
				23					
9				27					
	S-5	9	9-11	12				S-5: Dense, brown-tan, fine SAND, some Silt. Wet.	
10				14					
				18					
11				16					
	S-6	9	11-13	15				S-6: Dense, orangish brown-tan, fine to medium SAND, little Silt. Faint redoximorphic staining present. Wet.	
12				16					
				18					
13				15					
14									
15									
	S-7	12	15-17	11				S-7: Medium dense, tan, fine to coarse SAND, some Silt. 2-inch seam of coarse sand present. Wet.	
16				12					
				14					
17				13					
18									
19									
	S-8	14	19-21	17				S-8: Medium dense, orangish brown-tan, fine to medium SAND and Silt. Four (4) 1/8th to 1/4th-inch seams of silt with redoximorphic staining present. Wet.	
20				10					

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 into bore hole while coring asphalt pavement.
2) Caing introduced into borehole at 5 feet below 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

nobis

Boring No.: **MB-6**
Boring Location: See exploration location plan N: 2736579.00 E: 865512.00
Project: Marion Road (Route 6)
Checked by: P. Giraldo
Location: Wareham, MA
Date Start: November 12, 2024
Nobis Project No.: 100207.100
Date Finish: November 12, 2024

Contractor: New England Boring Contractors
Driller: N. Stutterd
Nobis Rep.: K. Kocia
Rig Type / Model: ATV / M-2
Hammer Type: Donut Hammer
Hammer Hoist: Rope & Cathead
Ground Surface Elev.: (+/-) 20
Datum: NAVD 88

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

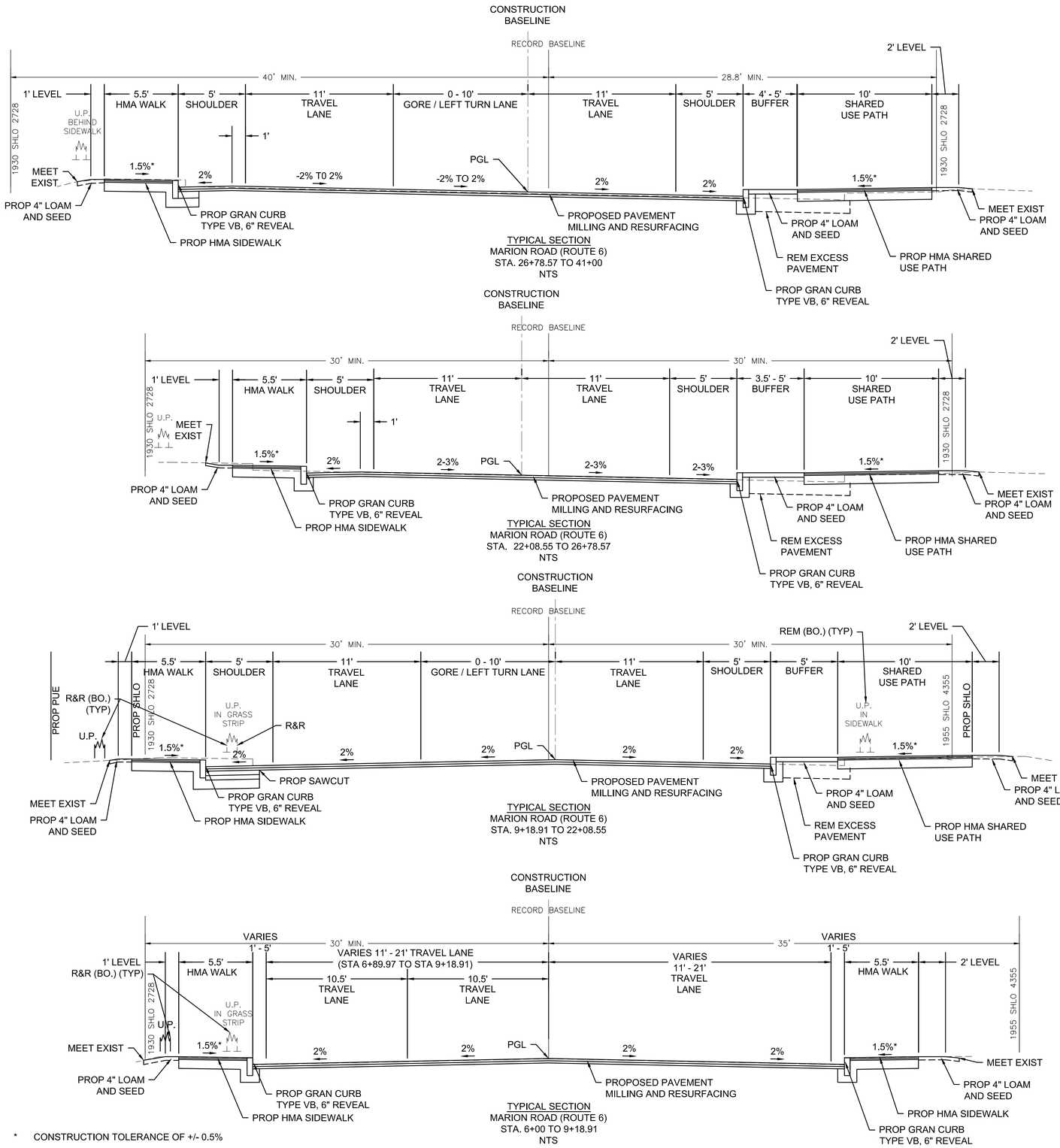
Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 11/12/24	13:30	7.5	24	28	10 Min

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
21				12					
				18					
22									
23									
24									
	S-9	15	24-26	10			COARSE DEPOSITS	S-9: Medium dense, tan, fine to coarse SAND, some Silt. 2-inch seam of coarse sand present. Wet.	
25				11					
				10					
26				13					
	S-10	11	26-28	5				S-10: Medium dense, tan, fine to medium SAND, some Silt. Wet.	
27				6					
				12					
28				13			-8.0 / 28.0		
29								Boring terminated at 28 feet.	3
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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

NOTES:
3) Boring backfilled with soil cuttings, sand, and cold patch upon completion.



* CONSTRUCTION TOLERANCE OF +/- 0.5%

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	8	131
	PROJECT FILE NO. 610647		

TYPICAL SECTION
SHEET 1 OF 2

PAVEMENT NOTES:

PROPOSED FULL DEPTH PAVEMENT:

SURFACE: 1.75" HOT MIX ASPHALT SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

INTERMEDIATE: 2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

BASE: 4.00" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER

SUBBASE: 4.00" DENSE GRADED CRUSHED STONE OVER
8.00" GRAVEL BORROW, TYPE B

PROPOSED PAVEMENT MILLING & RESURFACING:

SURFACE: 1.75" HOT MIX ASPHALT SUPERPAVE SURFACE COURSE - 12.5 SSC-12.5) OVER

2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

VARIABLE DEPTH PAVEMENT STANDARD MILLING

PROPOSED PAVEMENT WIDENING LESS THAN 4' WIDE:

SURFACE: 1.75" HOT MIX ASPHALT SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

INTERMEDIATE: 2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER

BASE: 6.00" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 8.00" GRAVEL BORROW, TYPE B

PROPOSED HOT MIX ASPHALT SIDEWALK:

TOP COURSE: 1.25" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER

BOTTOM COURSE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8.00" GRAVEL BORROW, TYPE B

PROPOSED HOT MIX ASPHALT DRIVEWAY / SHARED USE PATH:

TOP COURSE: 1.50" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

BOTTOM COURSE: 2.50" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8.00" GRAVEL BORROW, TYPE B

PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP:

RAMP SURFACE: 4.00" CEMENT CONCRETE

SUBBASE: 8.00" GRAVEL BORROW, TYPE B

PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAYS:

SURFACE: 6.00" CEMENT CONCRETE

SUBBASE: 8.00" GRAVEL BORROW, TYPE B

PROPOSED BRICK WALK:

SURFACE COURSE: 2.00" BRICK PAVERS OVER

BASE SURFACE: 2.00" SAND BORROW OVER

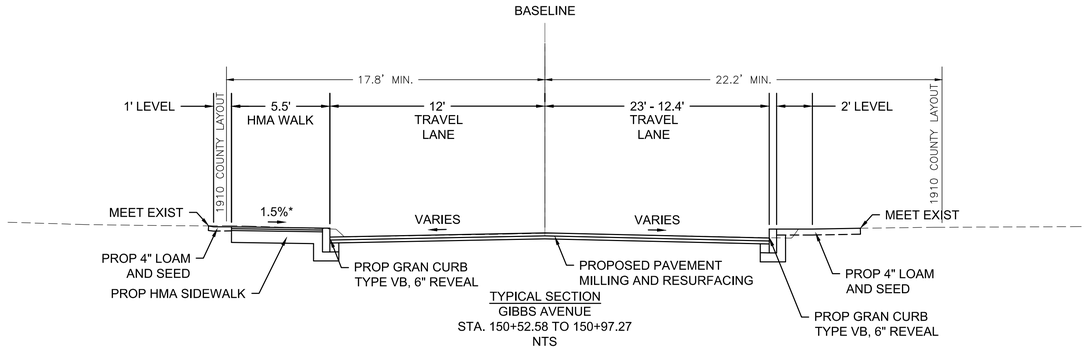
SUBBASE: 6.00" GRAVEL BORROW, TYPE B

NOTES:

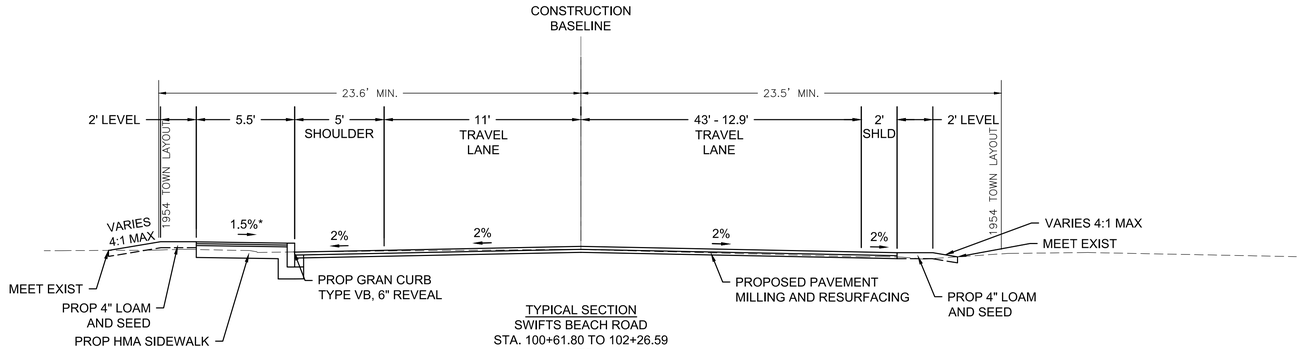
1. THE FINAL COURSE OF PAVEMENT SHALL BE PLACED IN ONE CONTINUOUS OPERATION.

610647_HD05(TYPICALS).DWG Plotted on 3-Mar-2026 8:21 AM

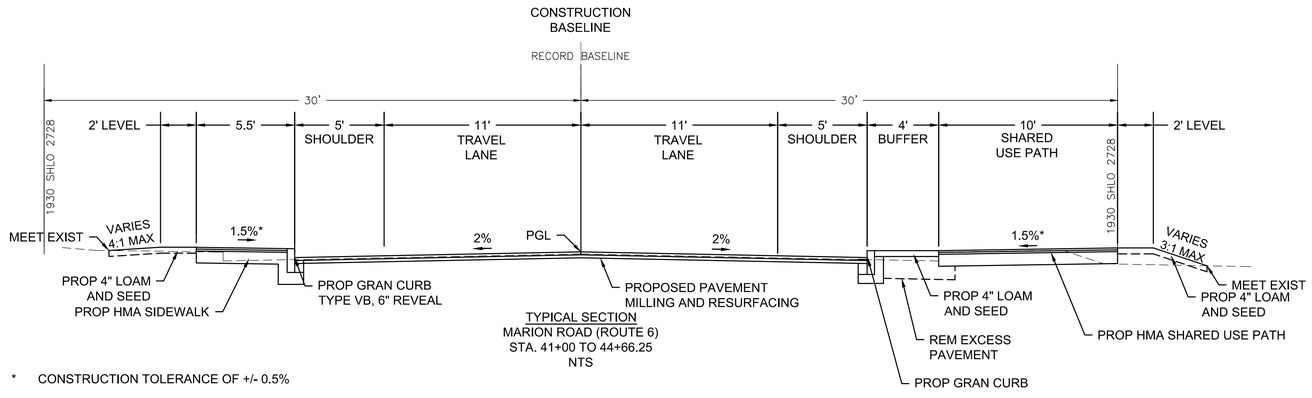
610647_HD05(TYPICALS).DWG Plotted on 3-Mar-2026 8:21 AM



TYPICAL SECTION
GIBBS AVENUE
STA. 150+52.58 TO 150+97.27
NTS



TYPICAL SECTION
SWIFTS BEACH ROAD
STA. 100+61.80 TO 102+26.59
NTS

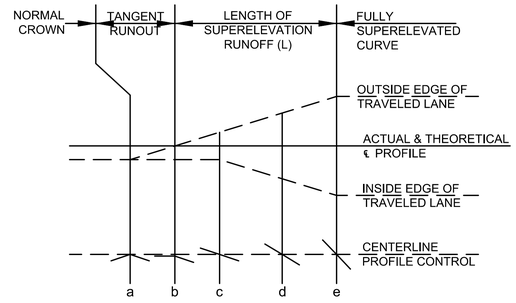


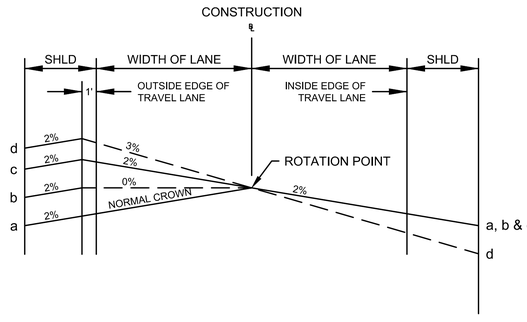
TYPICAL SECTION
MARION ROAD (ROUTE 6)
STA. 41+00 TO 44+66.25
NTS

* CONSTRUCTION TOLERANCE OF +/- 0.5%

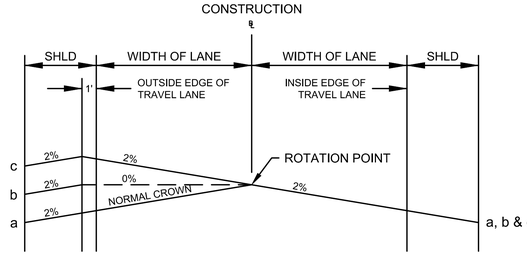
METHOD OF BANKING

CROWNED PAVEMENT REVOLVED ABOUT CENTERLINE





PC STA. 21+51.63, R=1051' (3.0%)
a - STA. 20+70
b - STA. 21+10
c - STA. 21+50
d - STA. 21+75 to 25+00
c - STA. 25+27.43 (PT)
b - STA. 26+00
a - STA. 26+70 to STA. 27+75



PC STA. 29+18.16, R=1648' (2.0%)
a - STA. 27+75
b - STA. 28+25
c - STA. 29+15 to 36+00
b - STA. 36+50
a - STA. 37+00

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

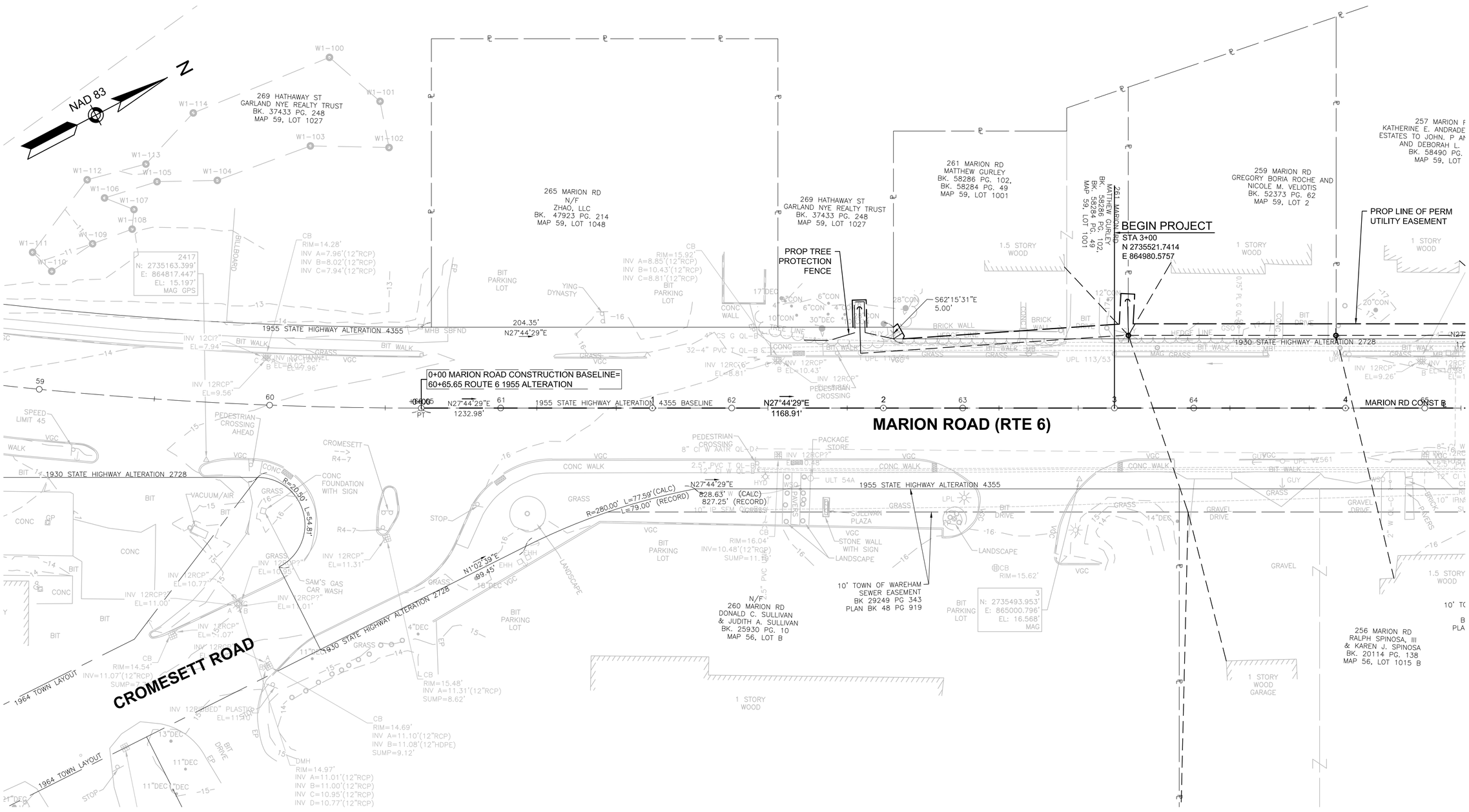
SEE SHEET 41

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	10	131
	PROJECT FILE NO.	610647	

CONSTRUCTION PLANS
SHEET 1 OF 10

610647_HD(TCP01).DWG Plotted on 3-Mar-2026 8:21 AM



0 20 50 100

SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NOS. 20

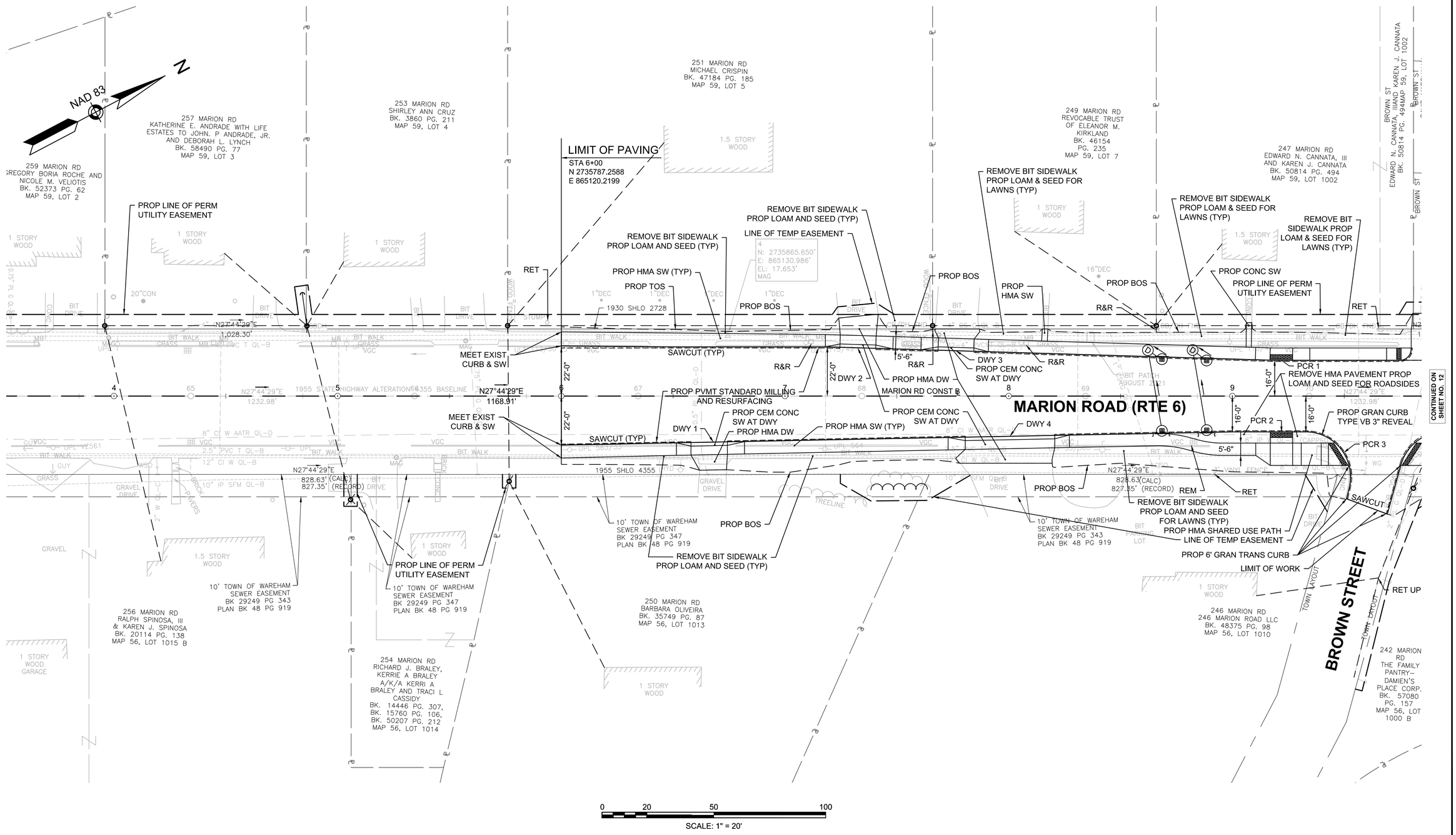
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE BELOW	SEE SHEET 42	SEE SHEET 42

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	11	131
	PROJECT FILE NO. 610647		

CONSTRUCTION PLANS
SHEET 2 OF 10

610647_HD(TCP02).DWG Plotted on 3-Mar-2026 8:21 AM



0 20 50 100
SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NOS. 20 - 21

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

SEE SHEET 43

DRAINAGE DETAILS

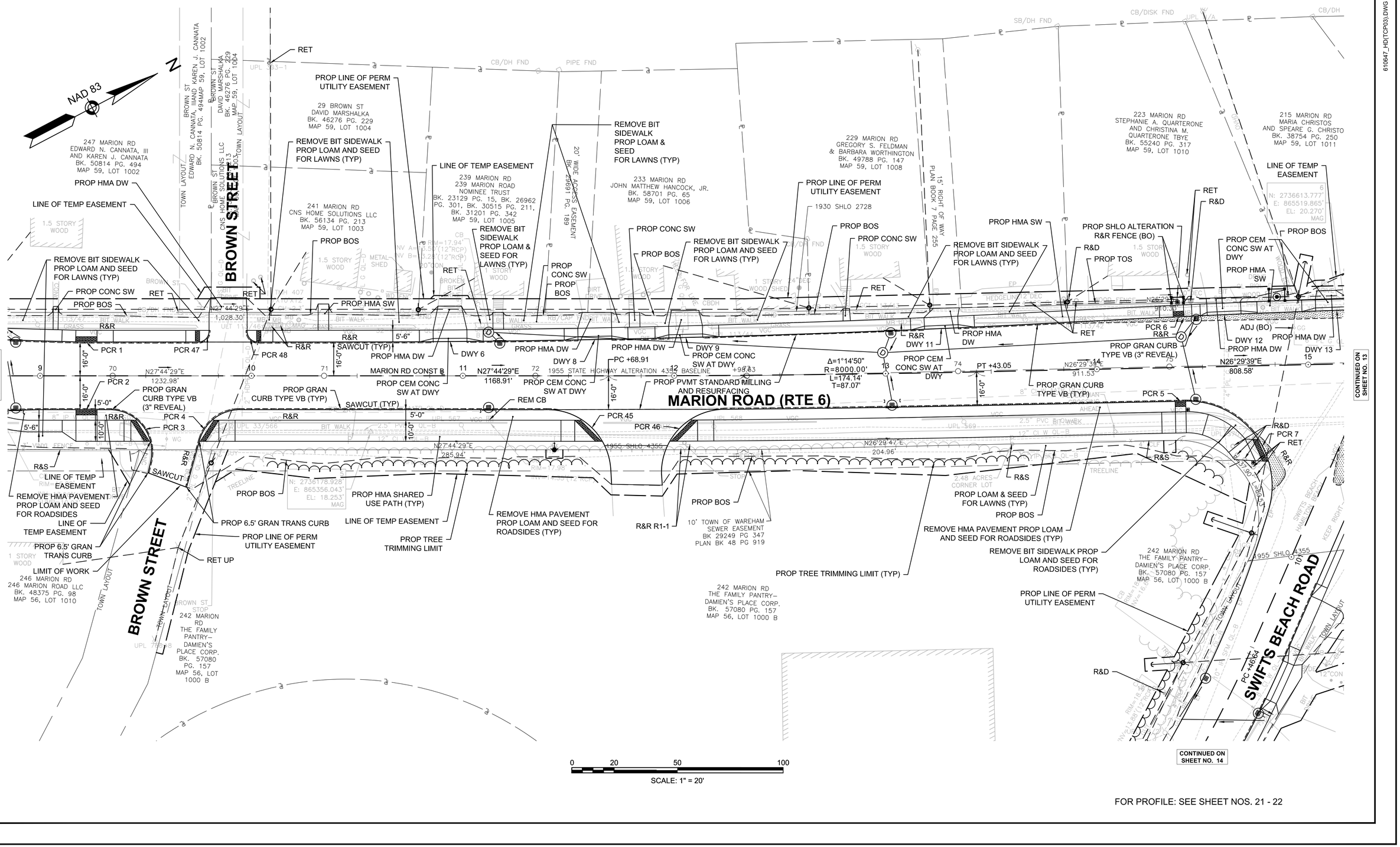
SEE SHEET 43

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	12	131
	PROJECT FILE NO.	610647	

CONSTRUCTION PLANS
SHEET 3 OF 10

610647_HD(TCP03).DWG Plotted on 3-Mar-2026 8:22 AM



FOR PROFILE: SEE SHEET NOS. 21 - 22

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

SEESHEET 44

DRAINAGE DETAILS

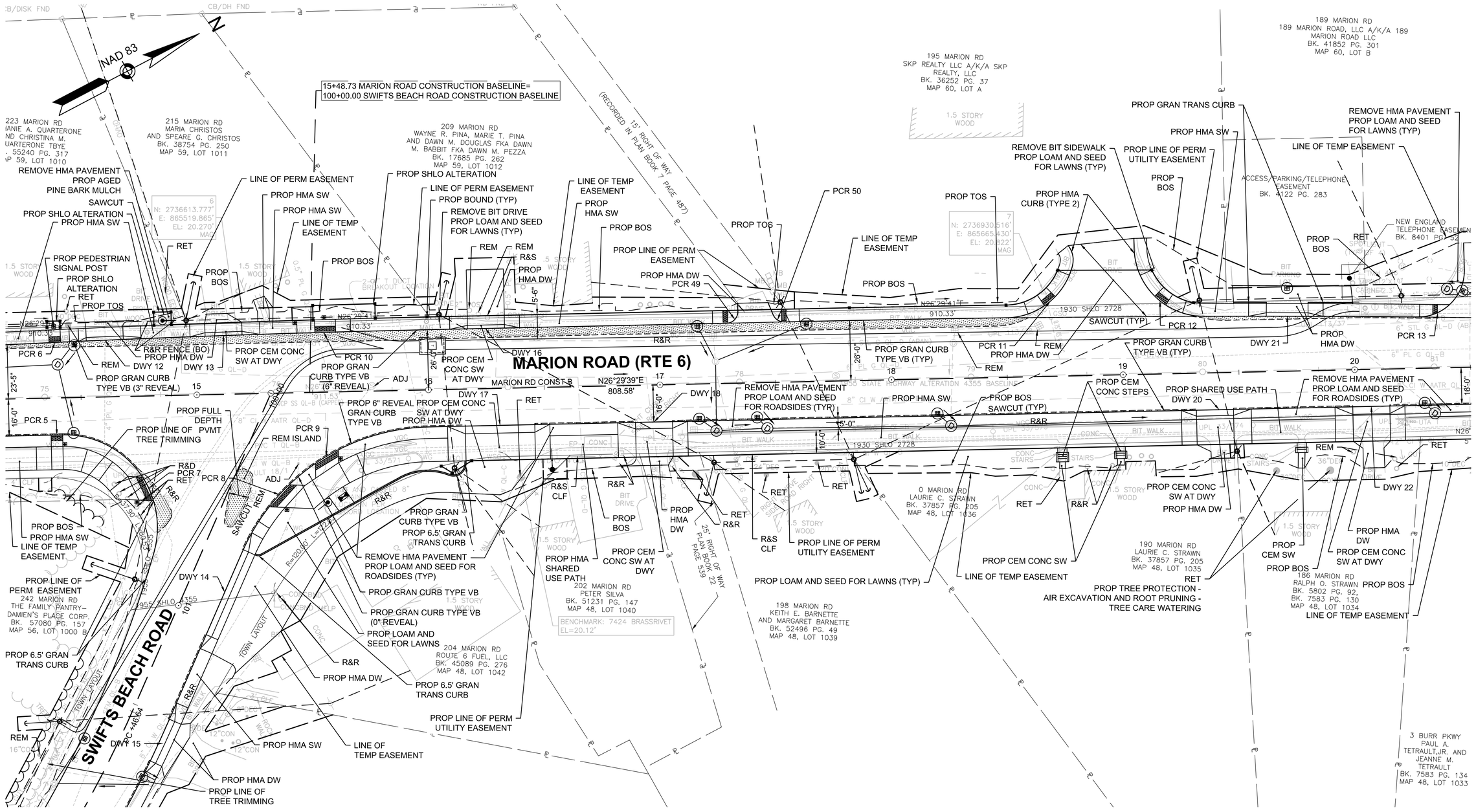
SEE SHEET 44

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	13	131
	PROJECT FILE NO.	610647	

CONSTRUCTION PLANS
SHEET 4 OF 10

610647_HD(TCP04).DWG Plotted on 3-Mar-2026 8:22 AM



FOR PROFILE: SEE SHEET NOS. 22 - 23

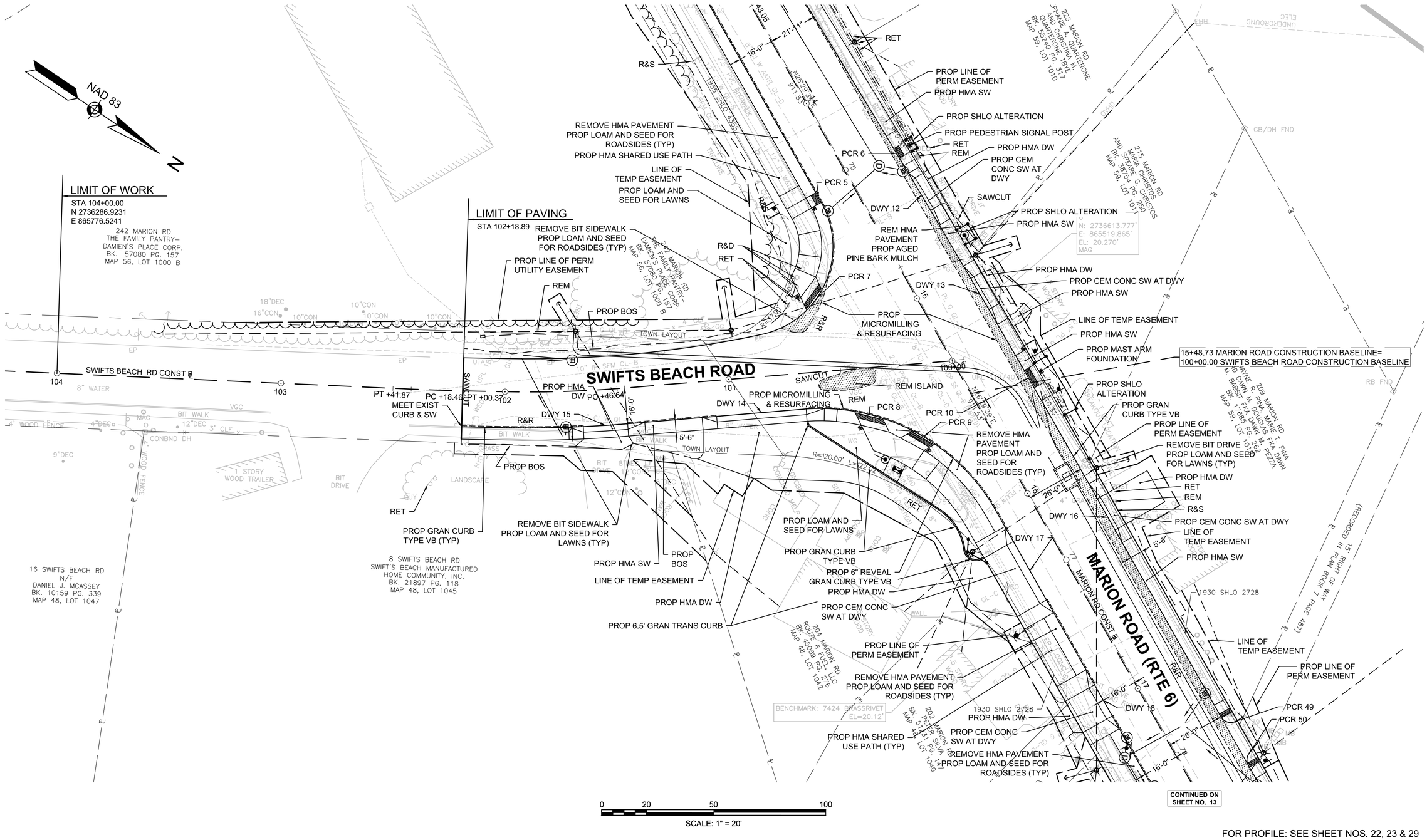
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE BELOW	SEE SHEET 45	SEE SHEET 45

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	14	131
	PROJECT FILE NO. 610647		

CONSTRUCTION PLANS
SHEET 5 OF 10

610647_HD(TCP05).DWG Plotted on 3-Mar-2026 8:22 AM



FOR PROFILE: SEE SHEET NOS. 22, 23 & 29

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

SEE SHEET 46

DRAINAGE DETAILS

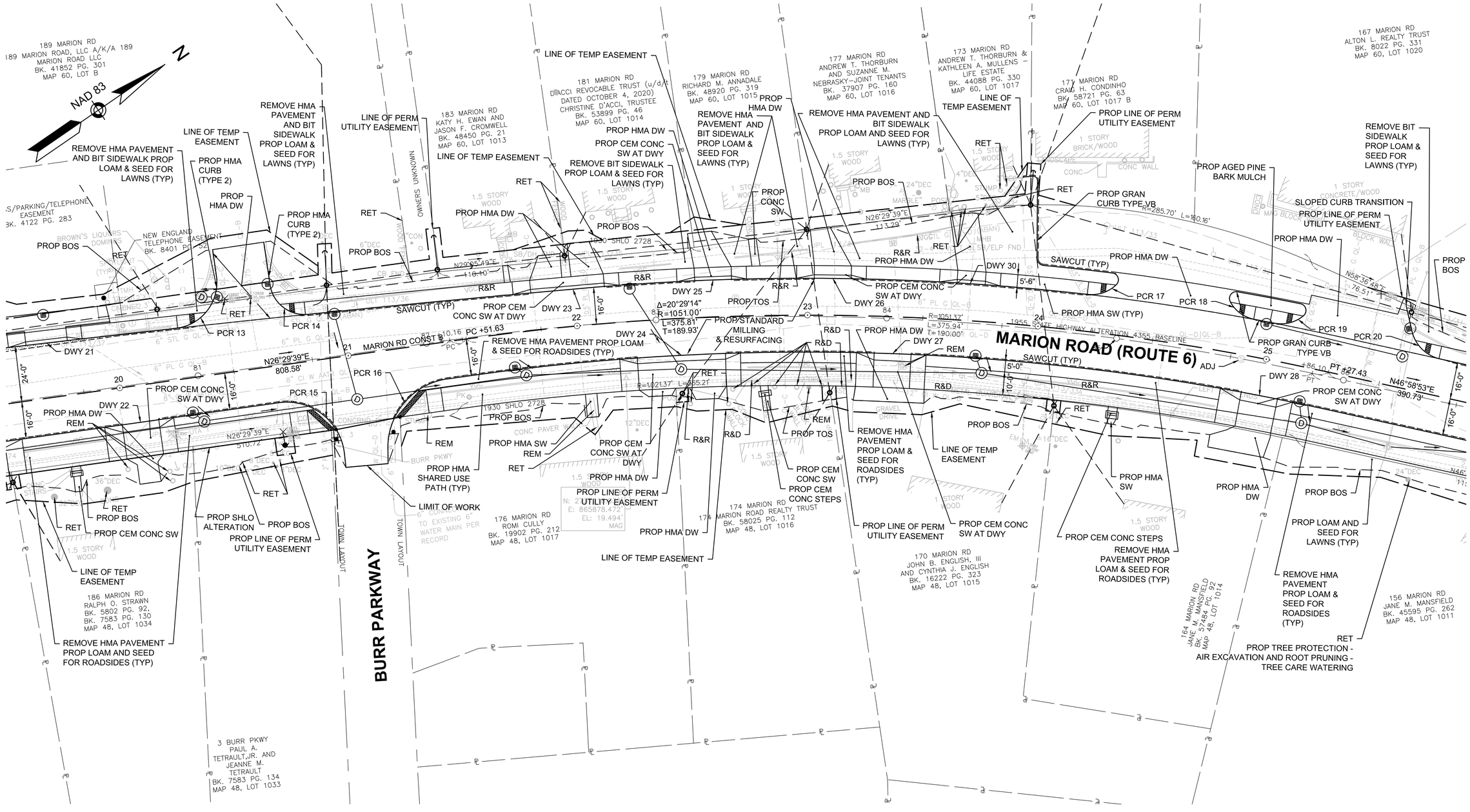
SEE SHEET 46

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	15	131
	PROJECT FILE NO. 610647		

CONSTRUCTION PLANS
SHEET 6 OF 10

610647_HD(TCP06).DWG Plotted on 3-Mar-2026 8:23 AM



FOR PROFILE: SEE SHEET NOS. 23 - 24

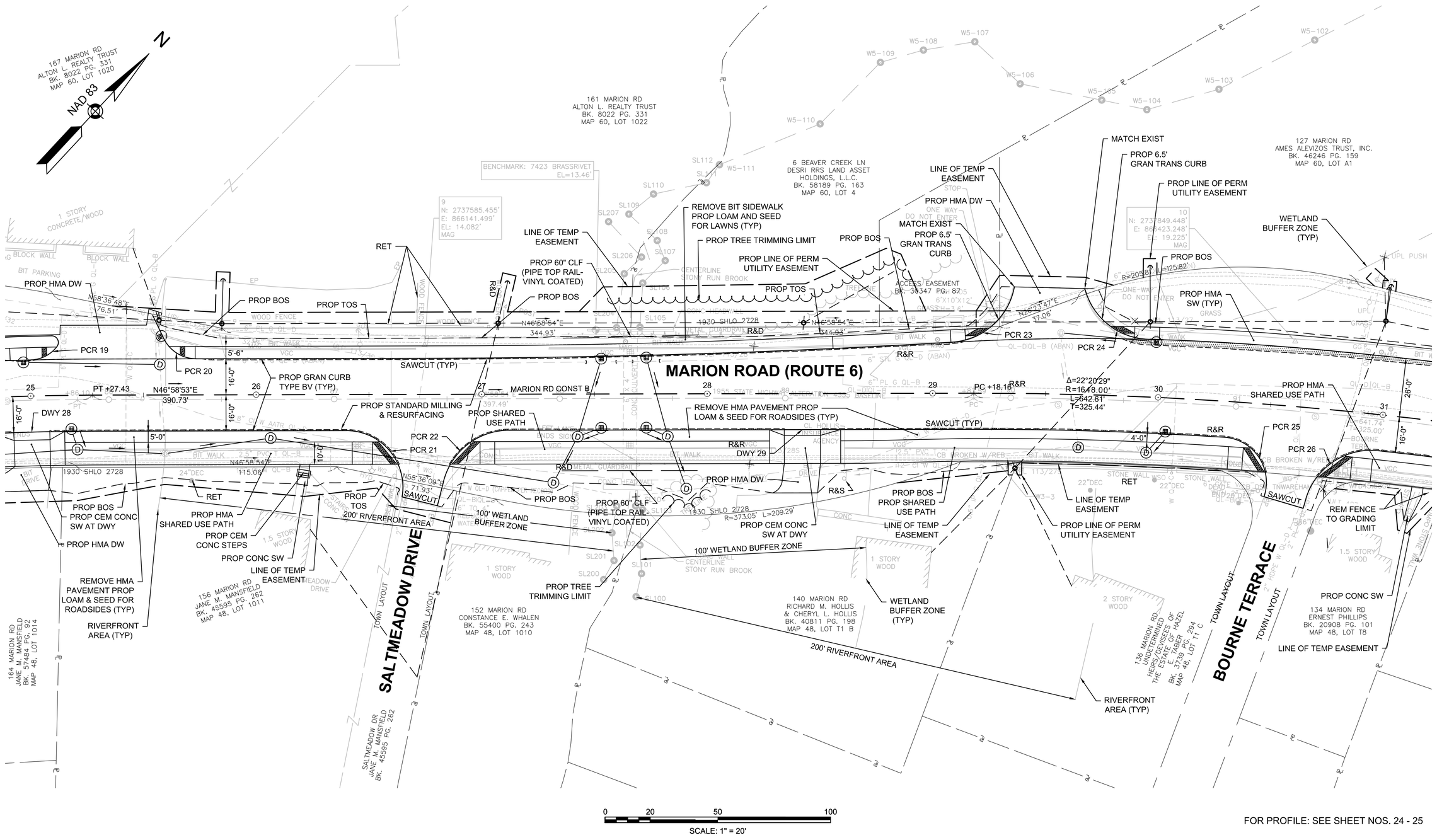
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE BELOW	SEE SHEET 47	SEE SHEET 47

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	16	131
	PROJECT FILE NO.	610647	

CONSTRUCTION PLANS
SHEET 7 OF 10

610647_HD(TCP07).DWG Plotted on 3-Mar-2026 8:23 AM



FOR PROFILE: SEE SHEET NOS. 24 - 25

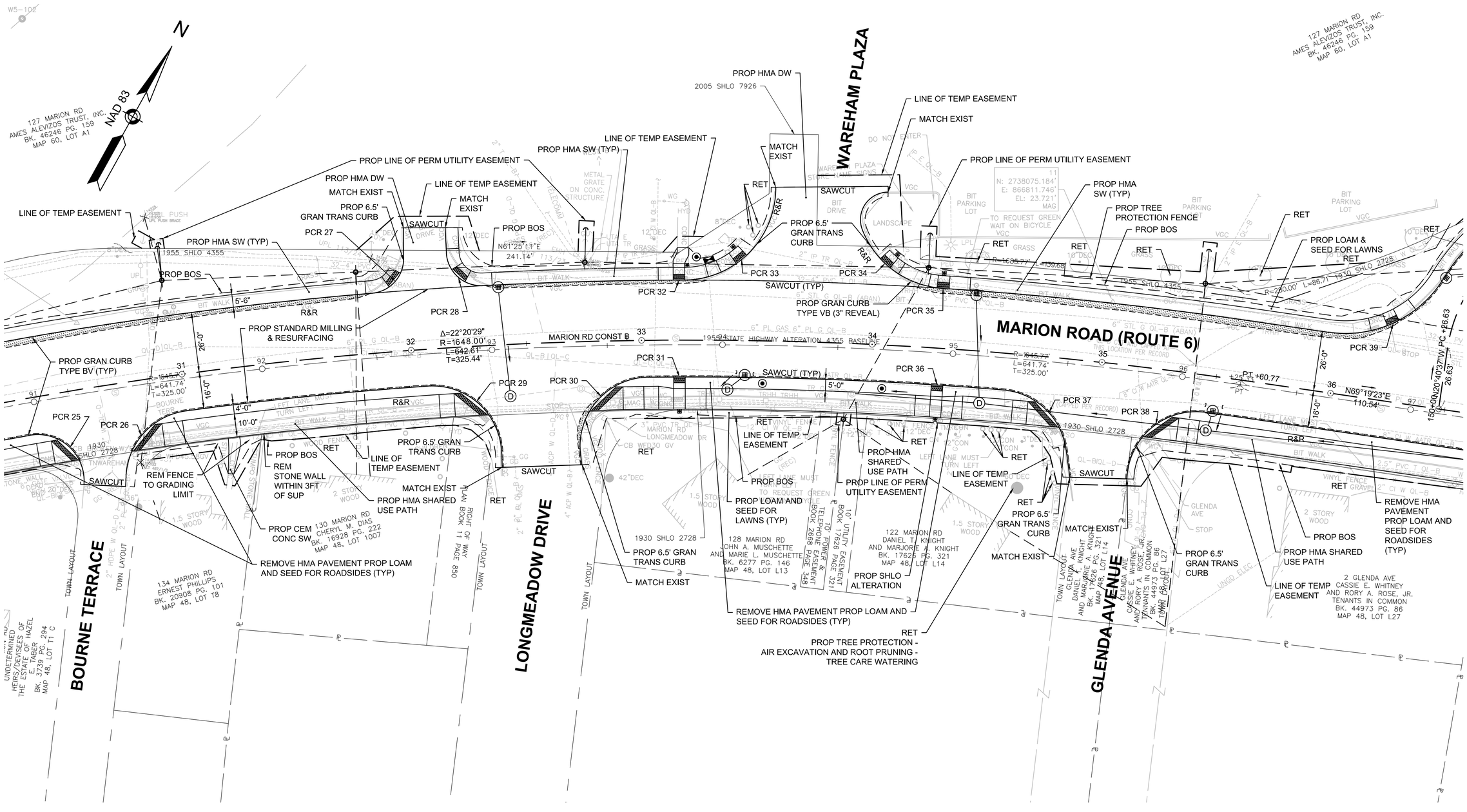
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE SHEET 67	SEE SHEET 48	SEE SHEET 48

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	17	131
	PROJECT FILE NO. 610647		

CONSTRUCTION PLANS
SHEET 8 OF 10

610647_HD(TCP08).DWG Plotted on 3-Mar-2026 8:23 AM



CONTINUED ON SHEET NO. 16

CONTINUED ON SHEET NO. 18

FOR PROFILE: SEE SHEET NOS. 25 - 27

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 67

WATER SUPPLY ALTERATIONS

SEE SHEET 49

DRAINAGE DETAILS

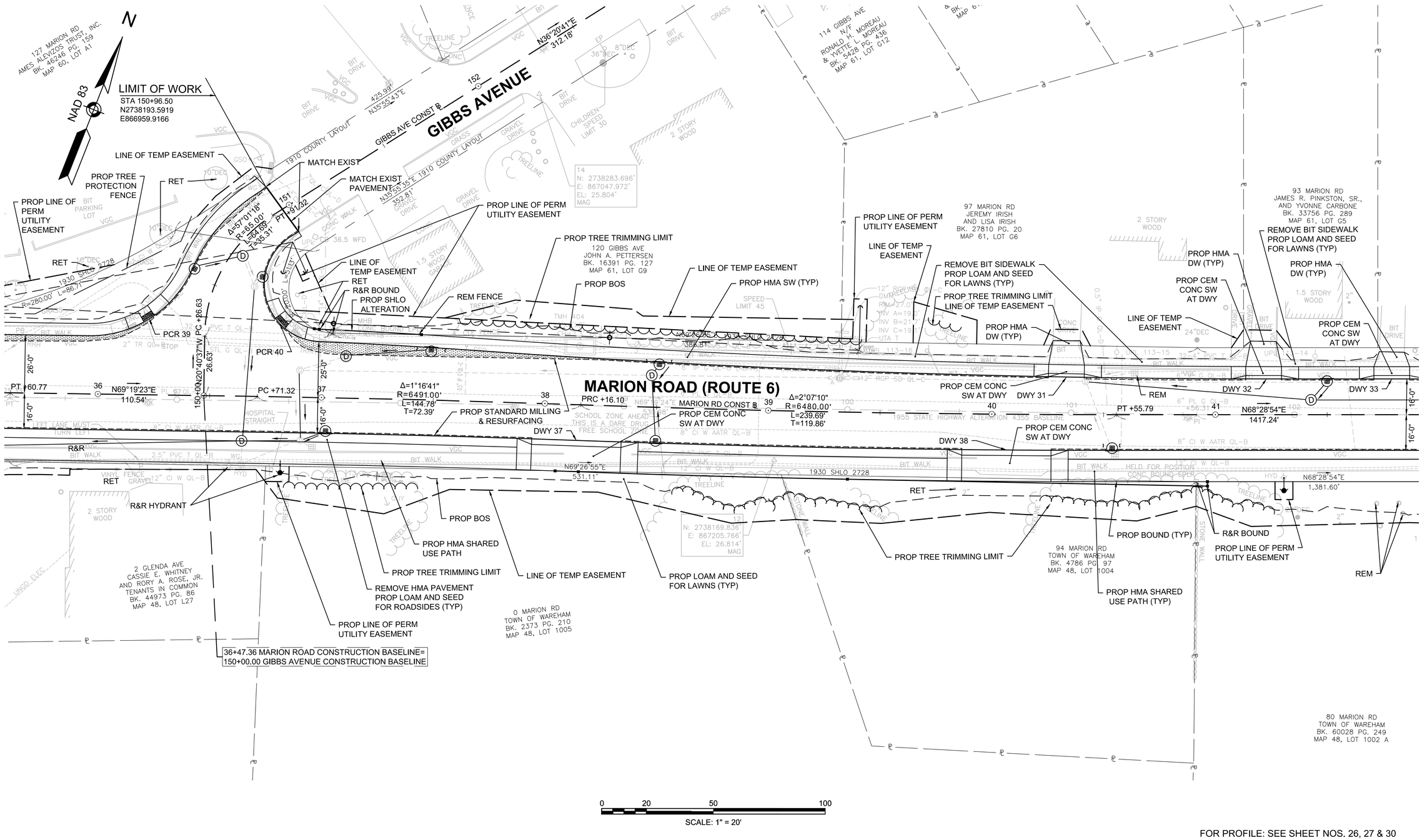
SEE SHEET 49

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	18	131
	PROJECT FILE NO. 610647		

CONSTRUCTION PLANS
SHEET 9 OF 10

610647_HD(TCP09).DWG Plotted on 3-Mar-2026 8:24 AM



0 20 50 100

SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NOS. 26, 27 & 30

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 67

WATER SUPPLY ALTERATIONS

SEE SHEET 50

DRAINAGE DETAILS

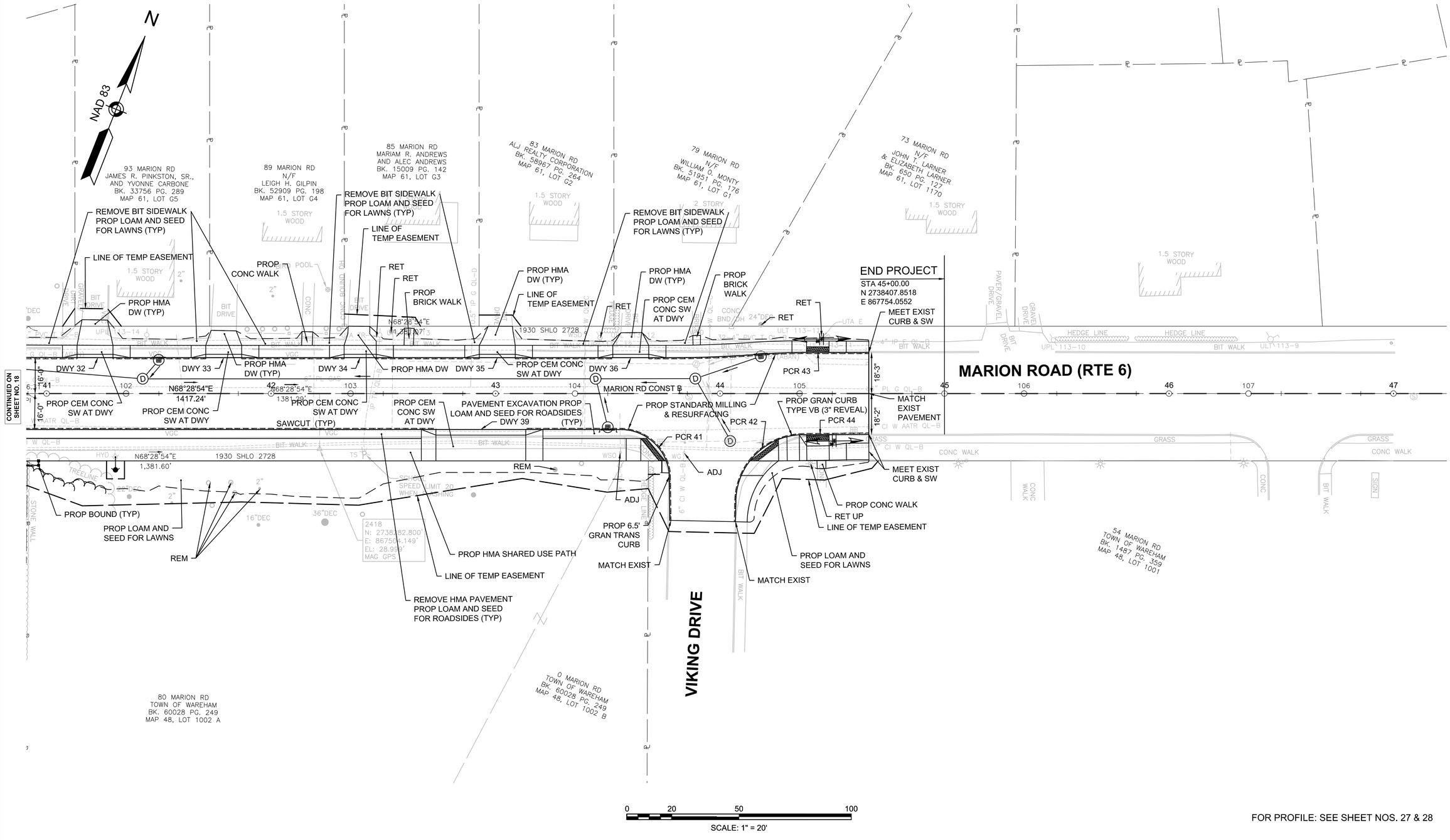
SEE SHEET 50

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	19	131
	PROJECT FILE NO.	610647	

CONSTRUCTION PLANS
SHEET 10 OF 10

610647_HD(TCP10).DWG Plotted on 3-Mar-2026 8:24 AM



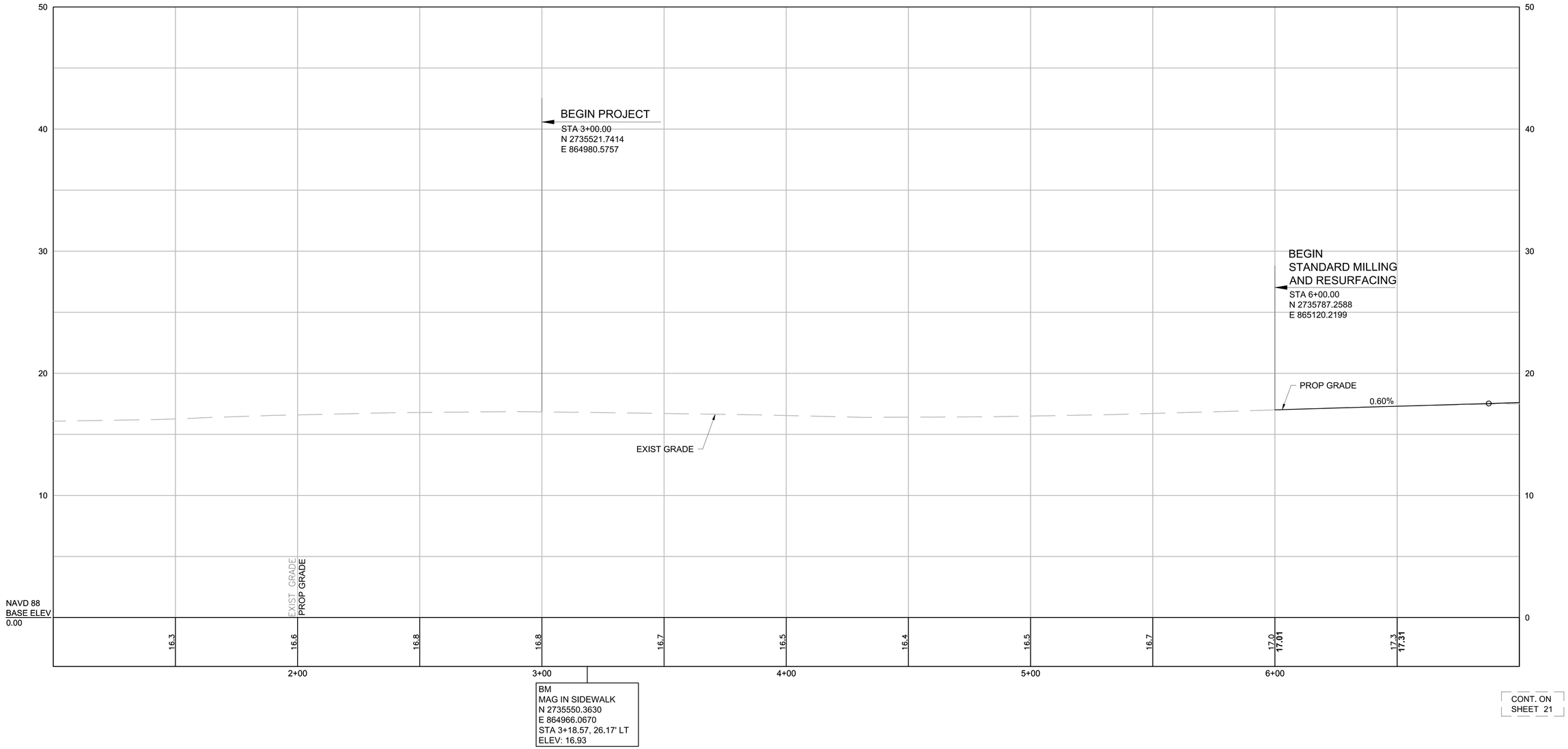
FOR PROFILE: SEE SHEET NOS. 27 & 28

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	20	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 1+00 TO 7+00

610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM



HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

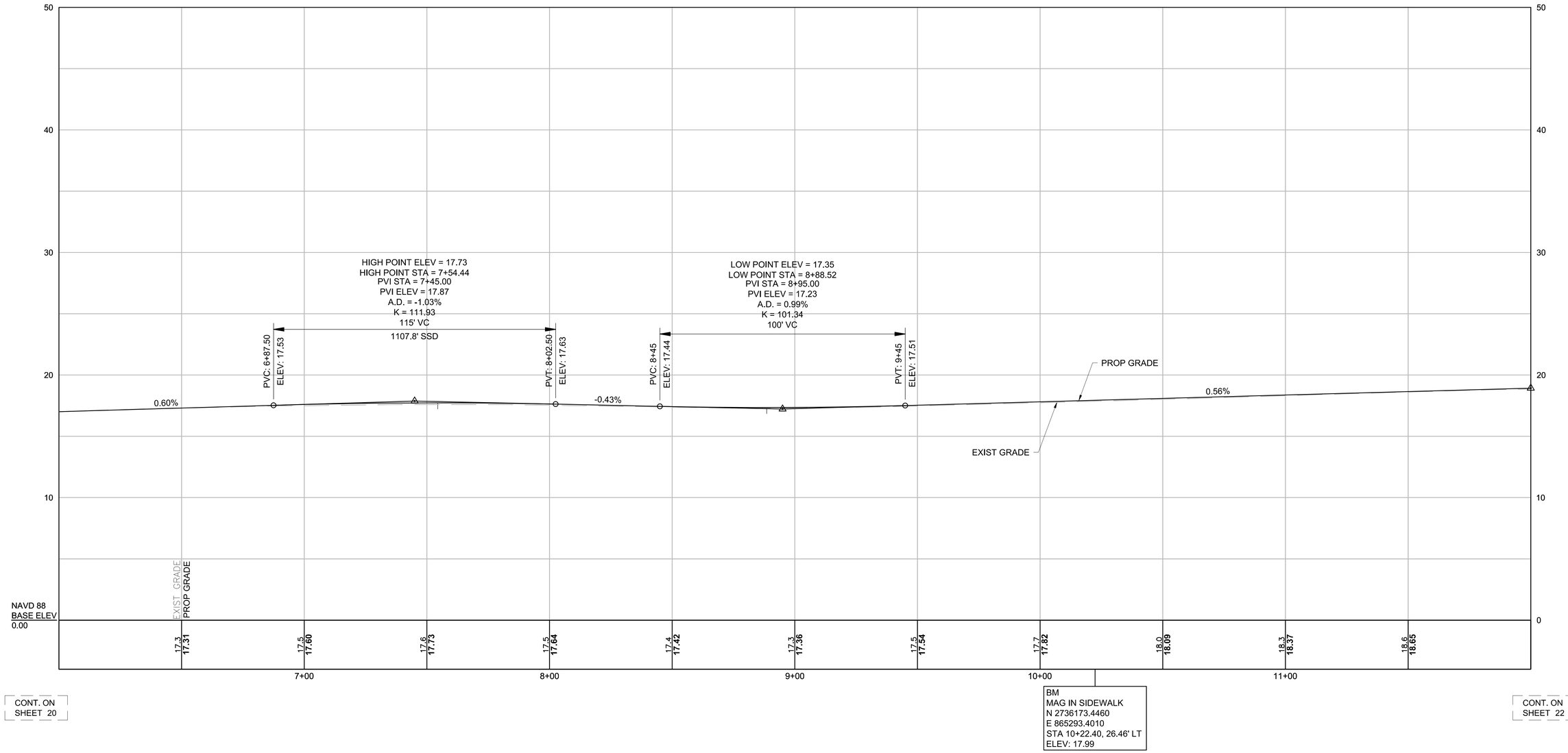
FOR CONSTRUCTION PLAN: SEE SHEET NO. 10 & 11

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	21	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 6+00 TO 12+00

610647_HD07\PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM



BM
MAG IN SIDEWALK
N 2736173.4460
E 865293.4010
STA 10+22.40, 26.46' LT
ELEV: 17.99

CONT. ON SHEET 20

CONT. ON SHEET 22

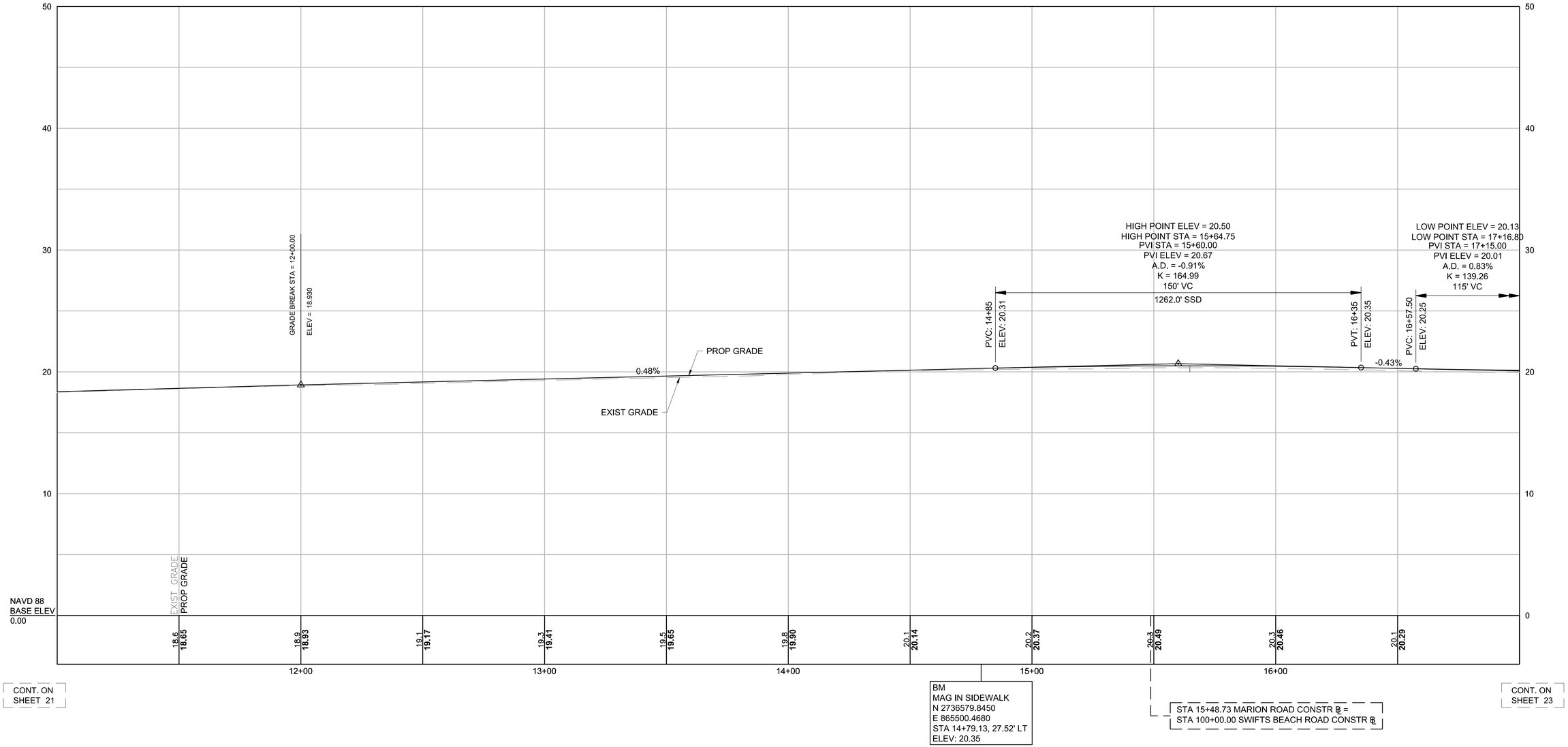
HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 11 & 12

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	22	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 11+00 TO 17+00



CONT. ON SHEET 21

BM
MAG IN SIDEWALK
N 2736579.8450
E 865500.4680
STA 14+79.13, 27.52' LT
ELEV: 20.35

STA 15+48.73 MARION ROAD CONSTR ℄ =
STA 100+00.00 SWIFTS BEACH ROAD CONSTR ℄

CONT. ON SHEET 23

HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

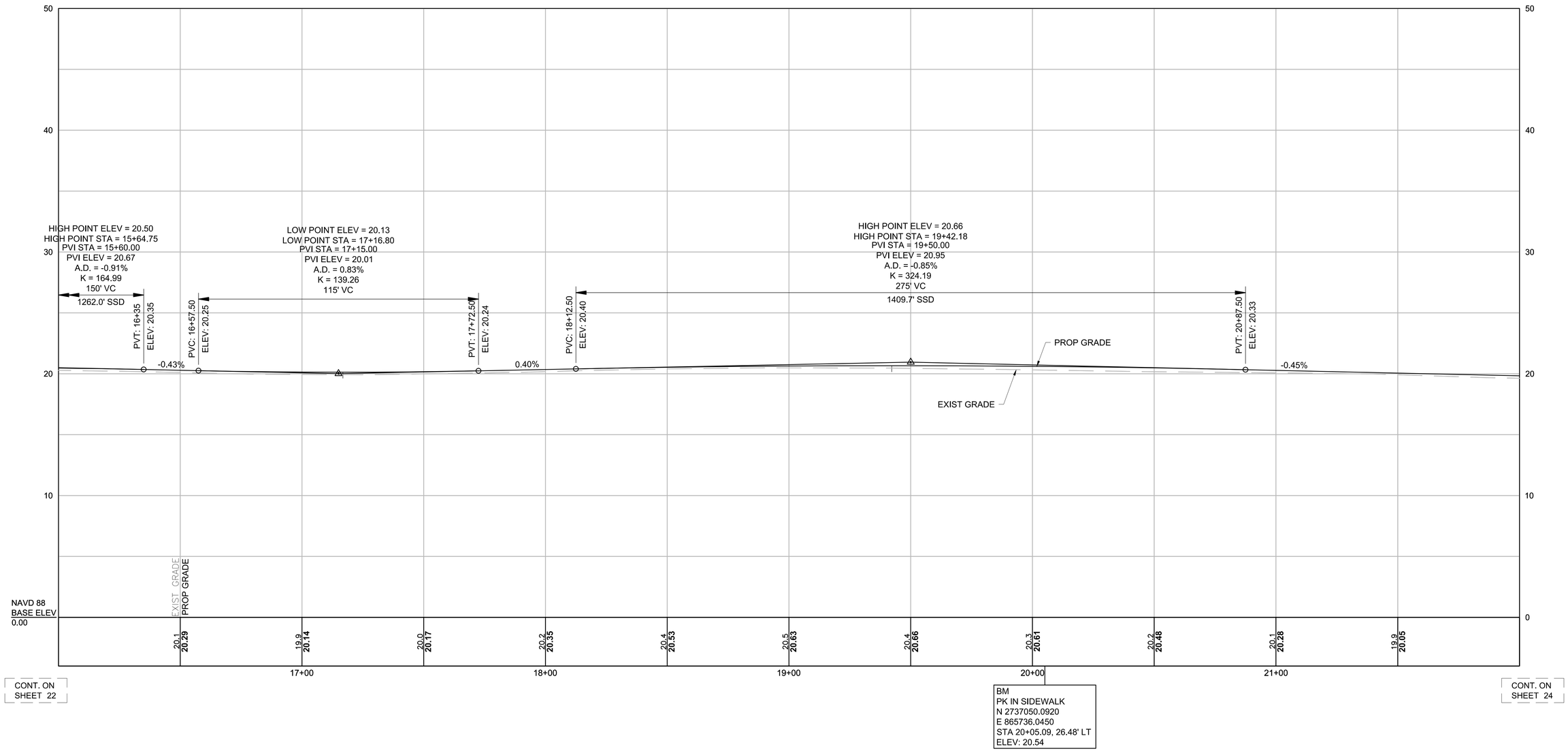
FOR CONSTRUCTION PLAN: SEE SHEET NO. 12 & 13

610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	23	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 16+00 TO 22+00



CONT. ON SHEET 22

CONT. ON SHEET 24

BM
PK IN SIDEWALK
N 2737050.0920
E 865736.0450
STA 20+05.09, 26.48' LT
ELEV: 20.54

HOR. SCALE IN FEET
0 20 50 100
VERT. SCALE IN FEET
0 4 10 20

FOR CONSTRUCTION PLAN: SEE SHEET NO. 12, 13, 14 & 15

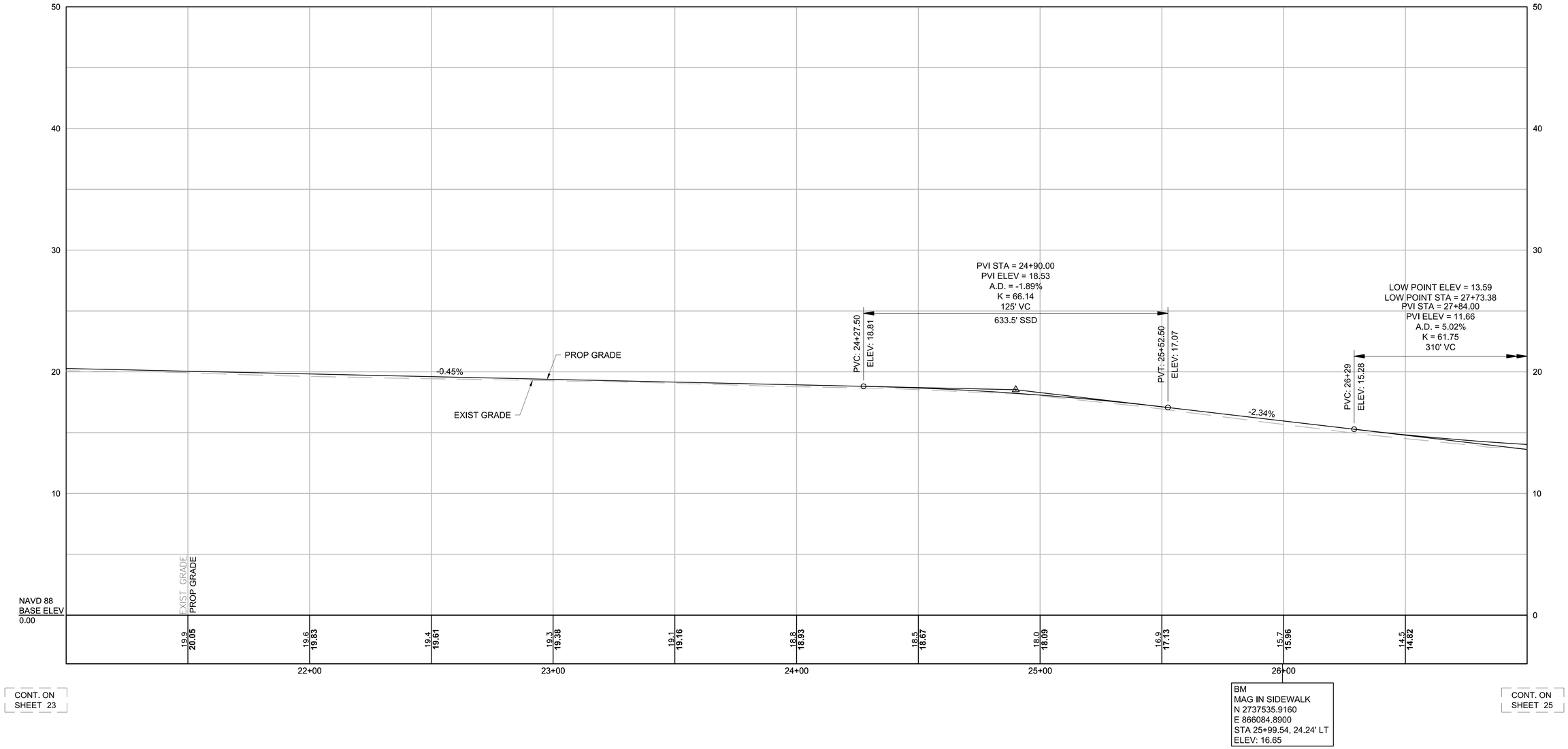
610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	24	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 21+00 TO 27+00

610647_HD07\PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM



CONT. ON SHEET 23

BM
MAG IN SIDEWALK
N 2737535.9160
E 866084.8900
STA 25+99.54, 24.24' LT
ELEV: 16.65

CONT. ON SHEET 25

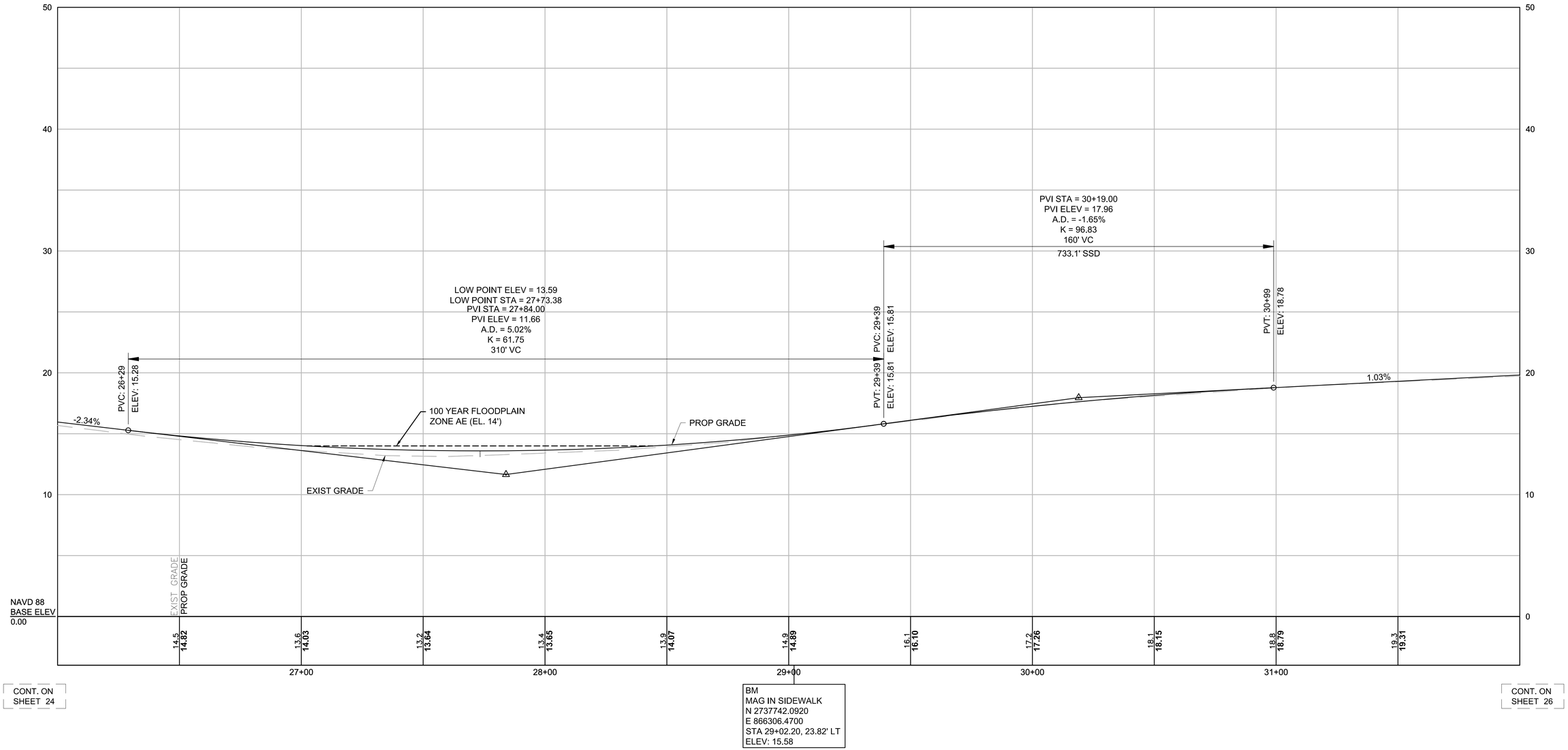
HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 13, 14, 15 & 16

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	25	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 26+00 TO 32+00



CONT. ON SHEET 24

BM
MAG IN SIDEWALK
N 2737742.0920
E 866306.4700
STA 29+02.20, 23.82' LT
ELEV: 15.58

CONT. ON SHEET 26

HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

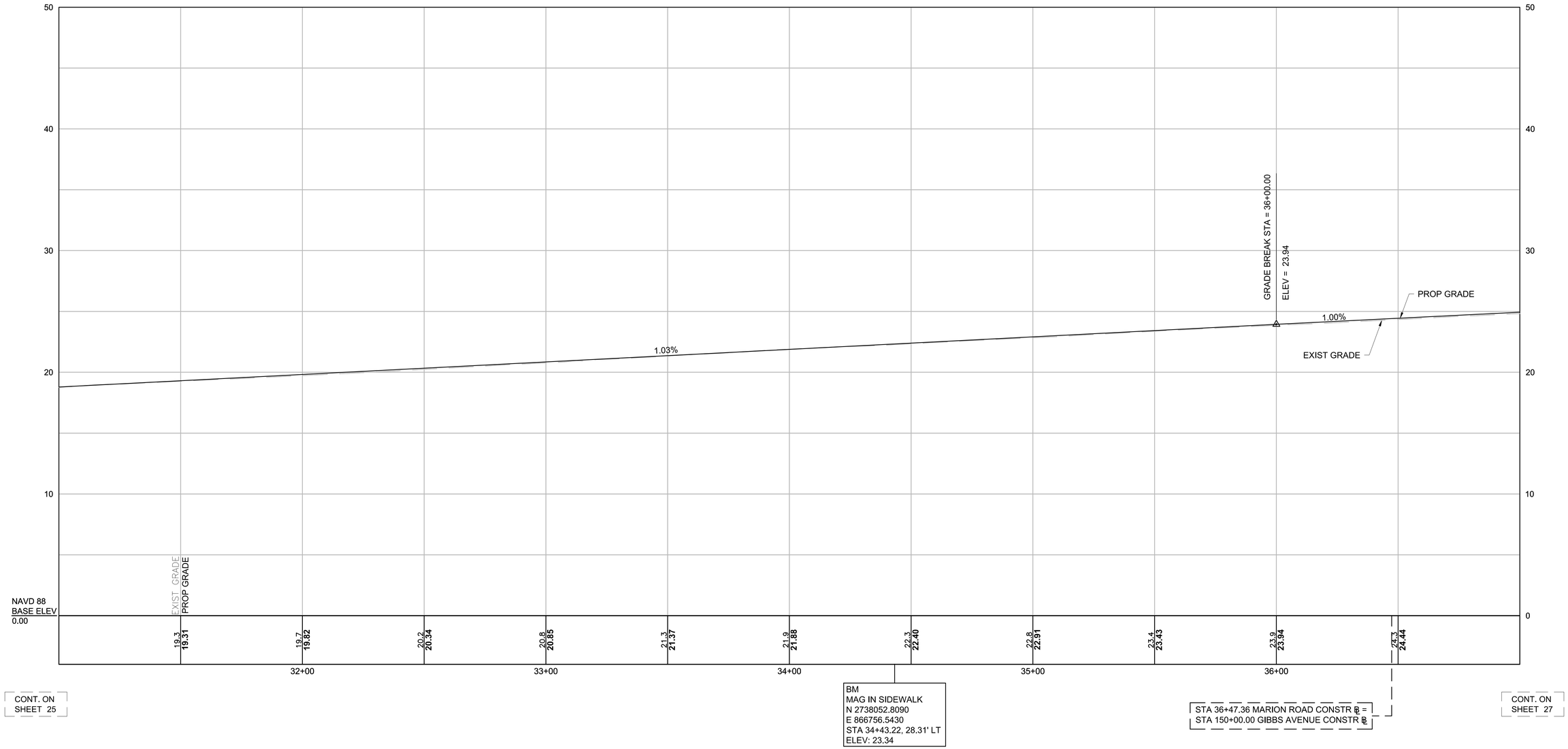
FOR CONSTRUCTION PLAN: SEE SHEET NO. 16 & 17

610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	26	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 31+00 TO 37+00



HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 16, 17 & 18

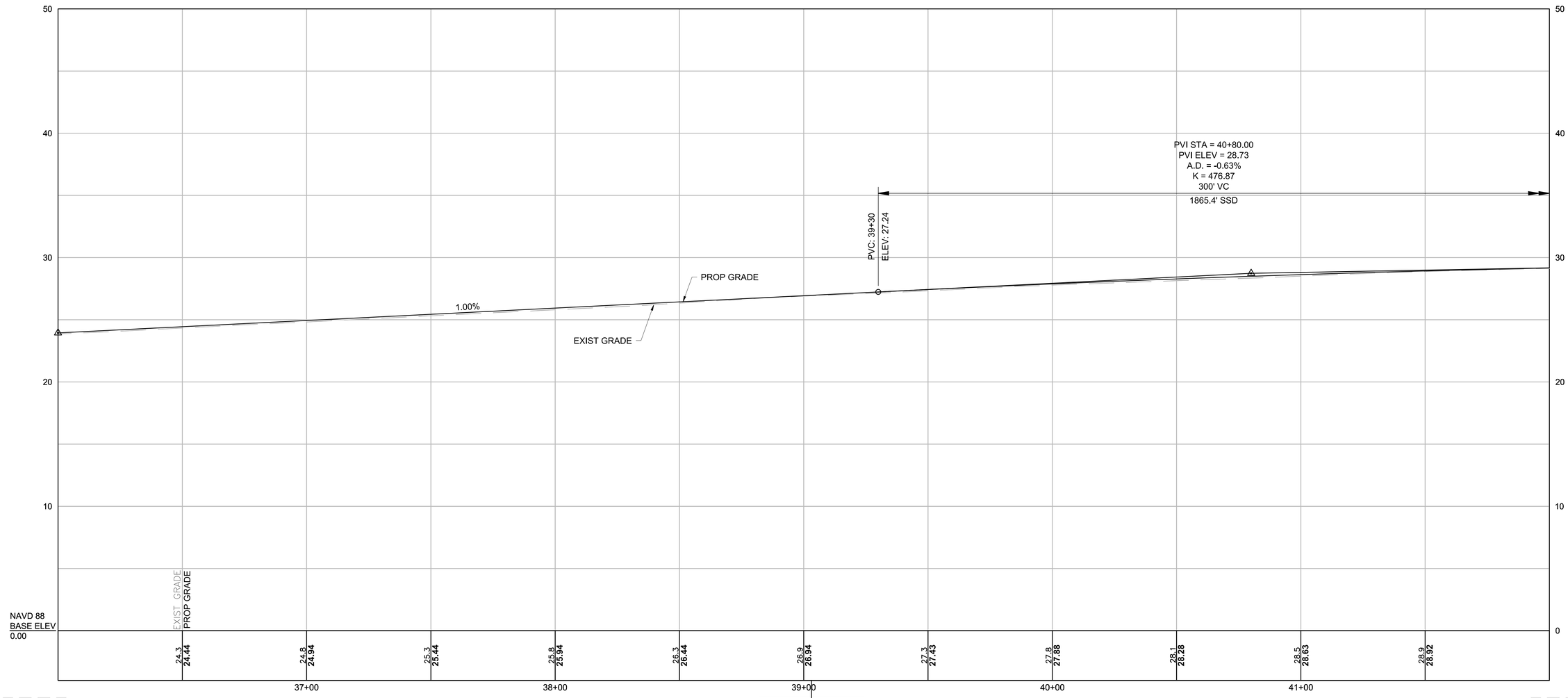
610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	27	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 36+00 TO 42+00

610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:25 AM



CONT. ON SHEET 26

BM
MAG IN SIDEWALK
N 2738169.8356
E 867205.7662
STA 39+03.14, 22.11' RT
ELEV: 26.81

CONT. ON SHEET 28

HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

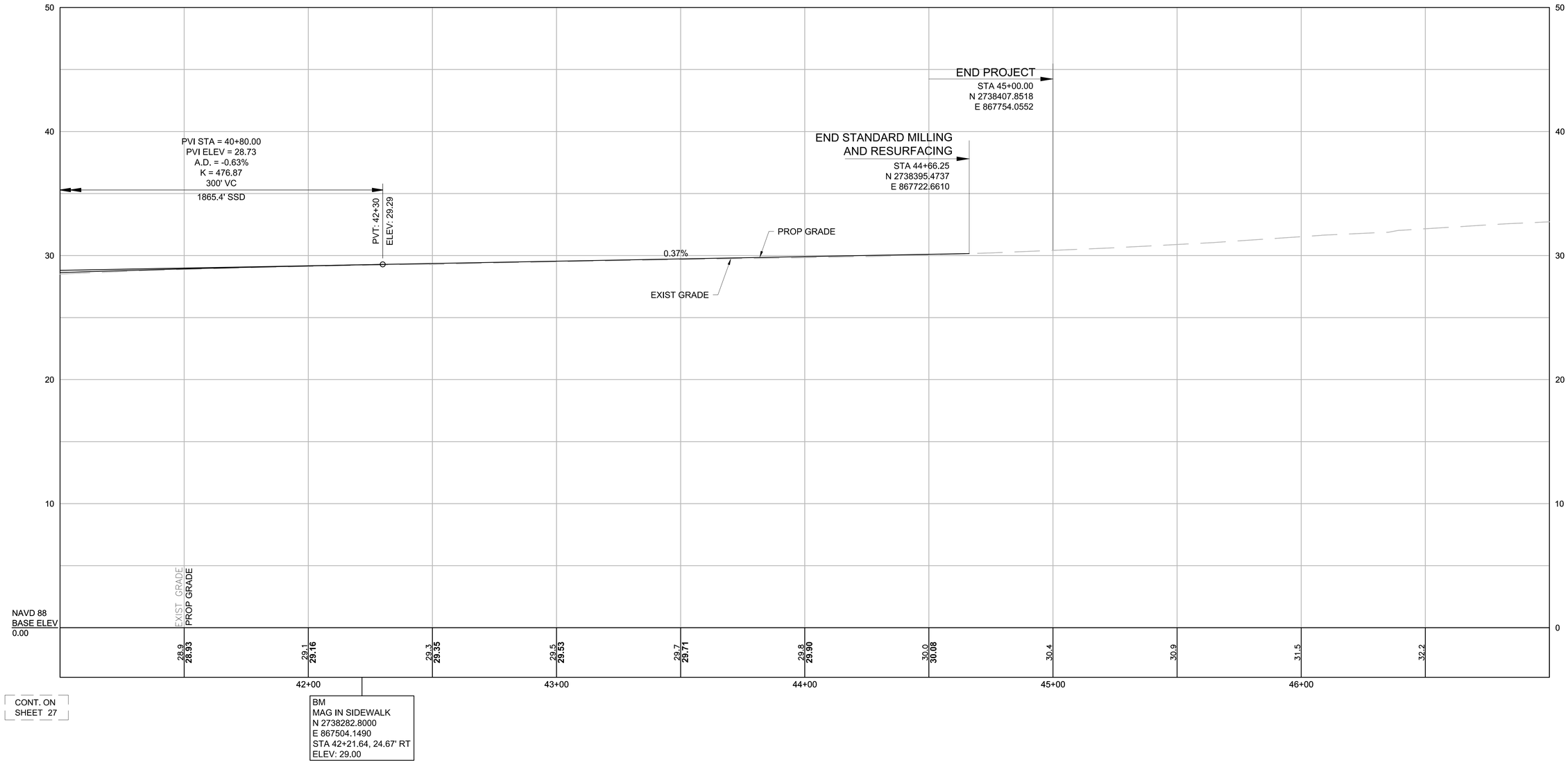
FOR CONSTRUCTION PLAN: SEE SHEET NO. 17 & 18

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	28	131
	PROJECT FILE NO.	610647	

PROFILE - MARION ROAD
STA 41+00 TO 47+00

610647_HD07(PROFILE_MAIN).DWG Plotted on 3-Mar-2026 8:26 AM



CONT. ON SHEET 27

HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

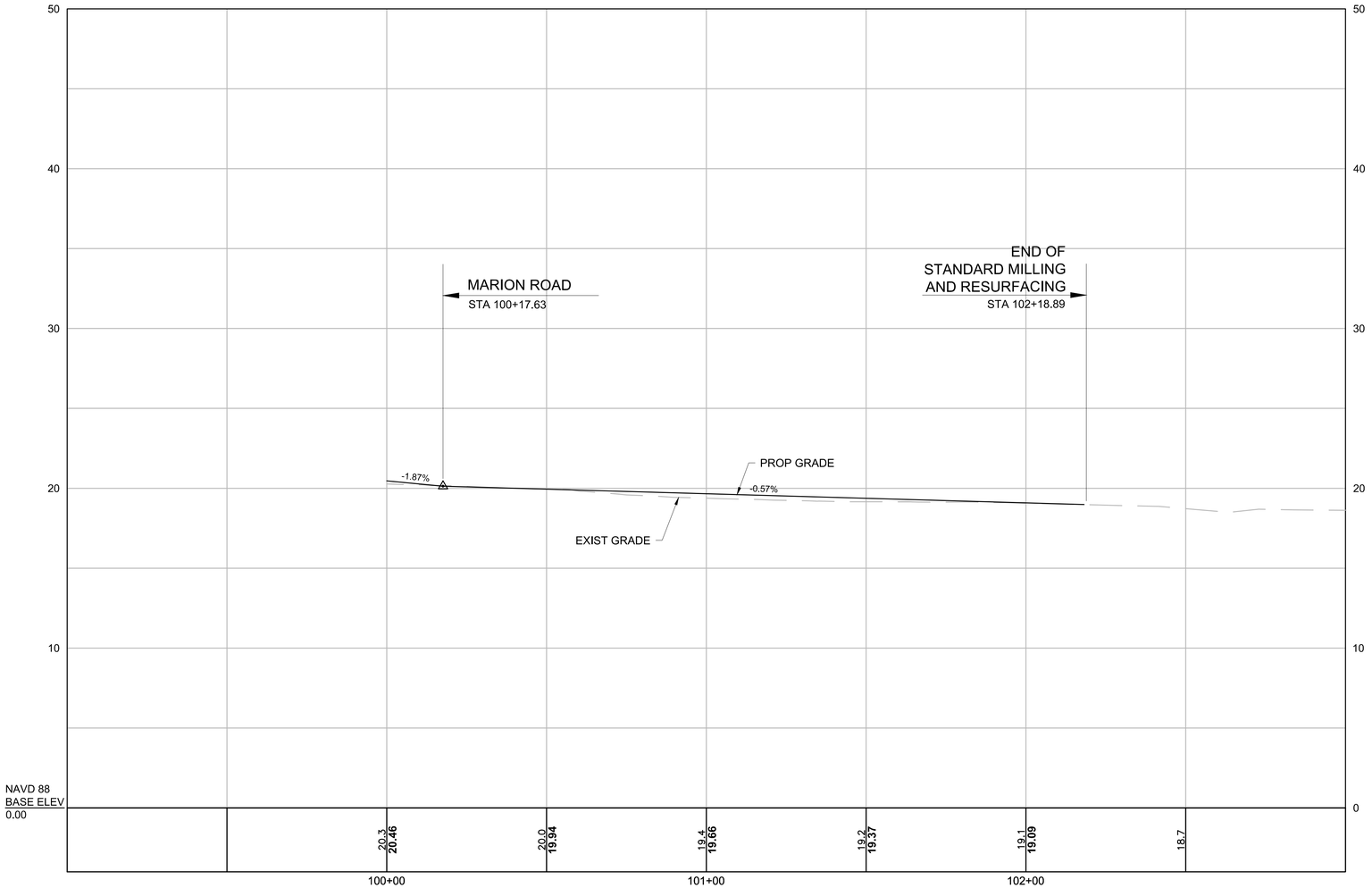
FOR CONSTRUCTION PLAN: SEE SHEET NO. 18 & 19

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	29	131
	PROJECT FILE NO.	610647	

PROFILE - SWIFTS BEACH ROAD
STA 99+00 TO 103+00

610647_HD07(PROFILE_SIDE).DWG Plotted on 3-Mar-2026 8:26 AM



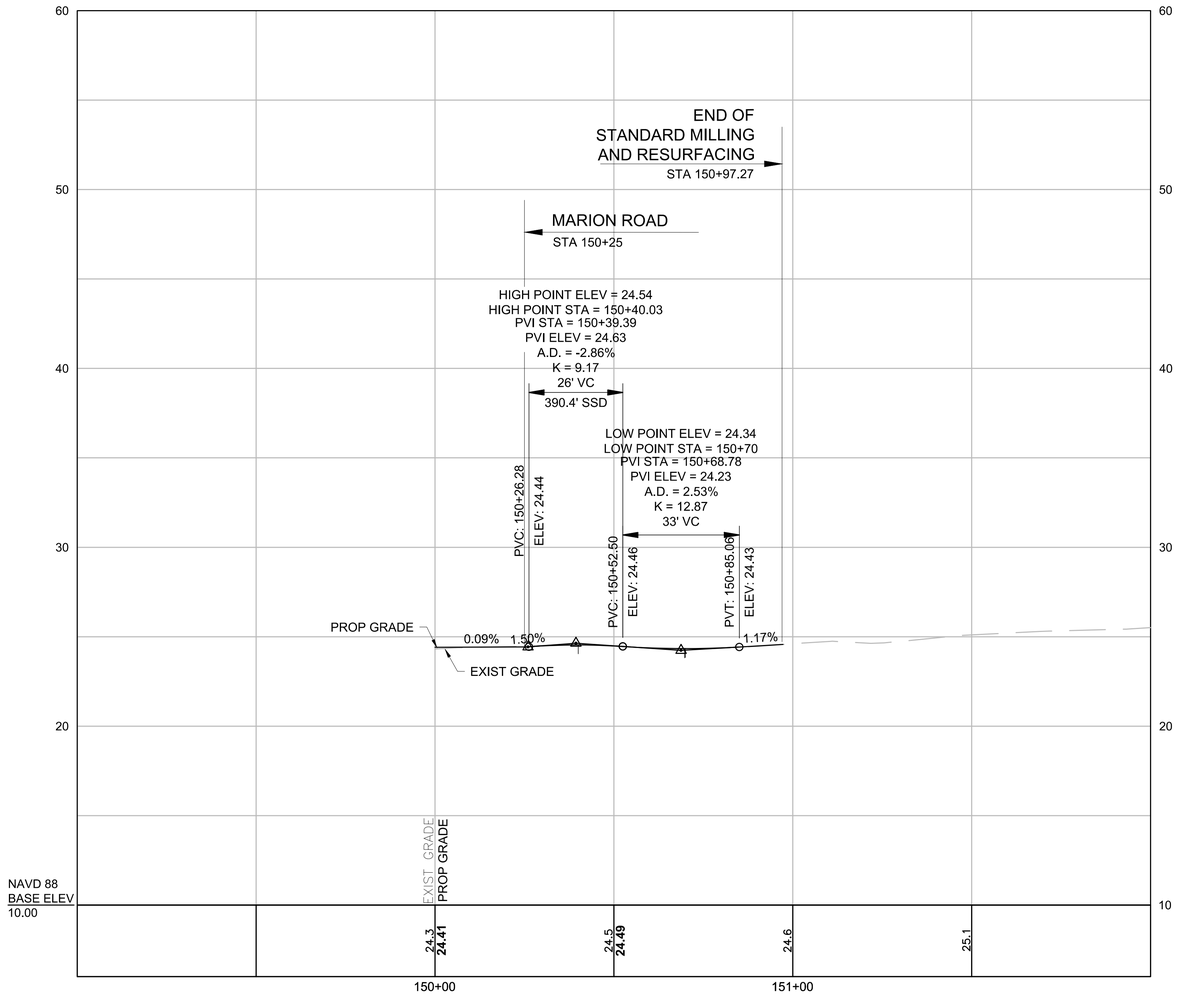
HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 14

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	30	131
	PROJECT FILE NO.	610647	

PROFILE - GIBBS AVENUE
STA 149+00 TO 152+00



HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET

FOR CONSTRUCTION PLAN: SEE SHEET NO. 18

610647_HD07(PROFILE_SIDE).DWG Plotted on 3-Mar-2026 8:26 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	31	131
	PROJECT FILE NO.	610647	

CURB TIE & GRADING PLANS
SHEET 1 OF 10

610647_HD08(CURB-TIE_GRAD_01).DWG Plotted on 3-Mar-2026 8:27 AM

NAD 83 N

BEGIN PROJECT
STA 3+00
N 2735521.7414
E 864980.5757

0+00 MARION ROAD CONSTRUCTION BASELINE=
60+65.65 ROUTE 6 1955 ALTERATION

MARION ROAD (RTE 6)

CROMESETT ROAD

1955 STATE HIGHWAY ALTERATION 4355

1930 STATE HIGHWAY ALTERATION 2728

1964 TOWN LAYOUT

2417
N: 2735163.399'
E: 864817.447'
EL: 15.197'
MAG GPS

3
N: 2735493.953'
E: 865000.796'
EL: 16.568'
MAG

1.5 STORY WOOD

1 STORY WOOD

1 STORY WOOD GARAGE

GRAVEL DRIVE

CONC FOUNDATION WITH SIGN

VACUUM/AIR

CONC WALK

VGC

GRASS

LANDSCAPE

PAVERS

8" DI SEWER

BRICK WALL

CONC WALL

STONE WALL WITH SIGN

MAG GRASS

HP/OG LINE

TREE LINE

CONTINUED ON SHEET NO. 32

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	32	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 2 OF 10

610647_HD08(CURB-TIE_GRAD_02).DWG Plotted on 3-Mar-2026 8:27 AM

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	0+00.00	2735256.224	864840.932		N27°44'29"E 1168.91'	11+68.91	2736290.778	865385.037

NAD 83

LIMIT OF PAVING
STA 6+00
N 2735787.2588
E 865120.2199

MATCH EXISTING CURB AND SIDEWALK

4
N: 2735865.650'
E: 865130.986'
EL: 17.653'
MAG

1955 SHLO 4355

N27°44'29"E 1,028.30'

N27°44'29"E 1232.98'

1955 STATE HIGHWAY ALTERATION 6355 BASELINE

N27°44'29"E 1168.91'

MARION ROAD (RTE 6)

DWY 1 DWY 2 DWY 3 DWY 4

MARION RD CONST ℄

SURVEY TRAVERSE N19°18'12"E 393.84'

SURVEY TRAVERSE N27°44'29"E 1735.74'

N27°44'29"E 828.63' (CALC) 827.35' (RECORD)

+52.29, 40.74' RT

3' VINYL FENCE

PC PRC PT PCR1 PCR2 PCR3 PCR4

Curve Table			
Curve #	Delta	Radius	Length
C1	103°42'13"	20.00	36.20
C2	75°31'21"	20.00	26.36

BROWN STREET

TOWN LAYOUT

1 STORY WOOD
1.5 STORY WOOD
1 STORY WOOD GARAGE
GRAVEL DRIVE
GRAVEL
PAVERS
8" DI SEWER
WOOD FENCE
CONC
MAG
VGC

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 33

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	33	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 3 OF 10

610647_HD08(CURB-TIE_GRAD_03).DWG Plotted on 3-Mar-2026 8:28 AM

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	14+35.95	30.50' LT	2736542.5196	865478.5591
MARION ROAD	14+35.95	33.23' LT	2736543.7365	865476.1179
MARION ROAD	14+41.62	30.50' LT	2736547.5981	865481.0906
MARION ROAD	14+41.62	33.23' LT	2736548.8150	865478.6494
MARION ROAD	14+82.11	30.50' LT	2736583.8367	865499.1544
MARION ROAD	14+82.11	36.14' LT	2736586.3521	865494.1082
MARION ROAD	14+89.61	30.56' LT	2736540.5776	865502.4429
MARION ROAD	14+89.61	36.14' LT	2736543.0644	865497.4541

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	0+00.00	2735256.224	864840.932		N27°44'29"E 1168.91'	11+68.91	2736290.778	865385.037
PC	11+68.91	2736290.778	865385.037	R=8000.00' Δ=1°14'50" L=174.14' T=87.07'		13+43.05	2736445.769	865464.411
PT	13+43.05	2736445.769	865464.411		N26°29'39"E 808.58'	21+51.63	2737169.431	865825.123

Curve Table			
Curve #	Delta	Radius	Length
C1	103°42'13"	20.00	36.20
C2	75°31'21"	20.00	26.36
C3	3°06'17"	6464.50	350.28
C4	1°51'27"	6496.00	210.59
C5	107°31'01"	40.00	75.06
C6	13°08'25"	500.00	114.67
C51	88°57'00"	30.00	46.57
C52	91°03'11"	30.00	47.68

SWIFTS BEACH ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	100+00.00	2736629.853	865556.168		S33°59'37"E 148.96'	101+48.96	2736506.354	865639.449
PC	101+48.96	2736506.354	865639.449	R=2550.00' Δ=2°34'07" L=114.32' T=57.17'		102+63.27	2736410.174	865701.217
PT	102+63.27	2736410.174	865701.217		S31°25'30"E 276.98'	105+40.25	2736173.821	865845.630

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.
3. GRADES SHOWN AT SITE DRIVEWAY LOCATED AT STA 11+81, RT ARE PROJECTED. FINAL GRADES SHALL BE COORDINATED WITH FINAL SITE PLAN.

0 20 50 100
SCALE: 1" = 20'

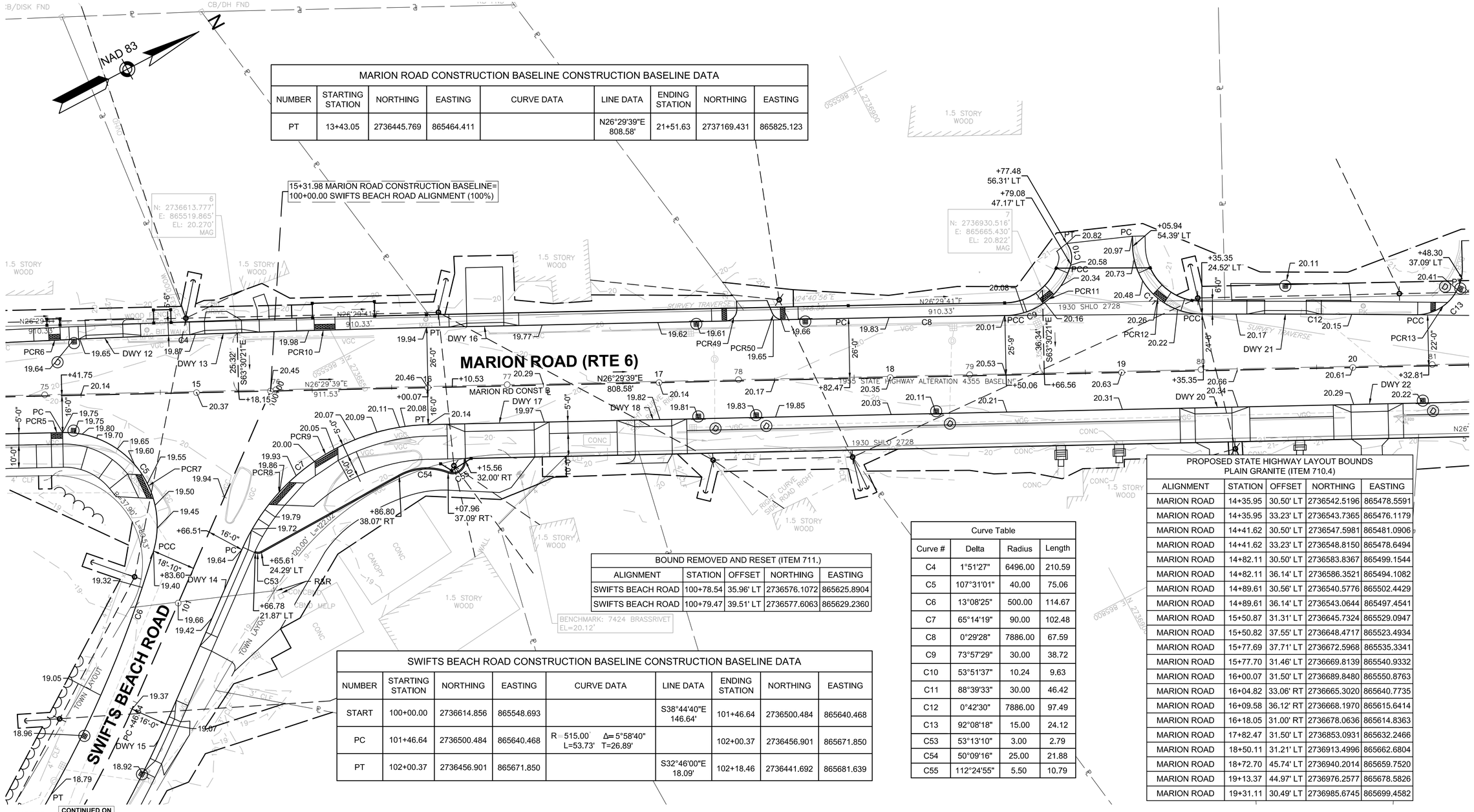
CONTINUED ON SHEET NO. 32
CONTINUED ON SHEET NO. 34
CONTINUED ON SHEET NO. 35

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	34	131
	PROJECT FILE NO.	610647	

CURB TIE & GRADING PLANS
SHEET 4 OF 10

610647_HD08(CURB-TIE_GRAD_04).DWG Plotted on 3-Mar-2026 8:28 AM



MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PT	13+43.05	2736445.769	865464.411		N26°29'39"E 808.58'	21+51.63	2737169.431	865825.123

BOUND REMOVED AND RESET (ITEM 711.)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
SWIFTS BEACH ROAD	100+78.54	35.96' LT	2736576.1072	865625.8904
SWIFTS BEACH ROAD	100+79.47	39.51' LT	2736577.6063	865629.2360

SWIFTS BEACH ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	100+00.00	2736614.856	865548.693		S38°44'40"E 146.64'	101+46.64	2736500.484	865640.468
PC	101+46.64	2736500.484	865640.468	R=515.00' Δ=5°58'40" L=53.73' T=26.89'		102+00.37	2736456.901	865671.850
PT	102+00.37	2736456.901	865671.850		S32°46'00"E 18.09'	102+18.46	2736441.692	865681.639

Curve Table			
Curve #	Delta	Radius	Length
C4	1°51'27"	6496.00	210.59
C5	107°31'01"	40.00	75.06
C6	13°08'25"	500.00	114.67
C7	65°14'19"	90.00	102.48
C8	0°29'28"	7886.00	67.59
C9	73°57'29"	30.00	38.72
C10	53°51'37"	10.24	9.63
C11	88°39'33"	30.00	46.42
C12	0°42'30"	7886.00	97.49
C13	92°08'18"	15.00	24.12
C53	53°13'10"	3.00	2.79
C54	50°09'16"	25.00	21.88
C55	112°24'55"	5.50	10.79

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	14+35.95	30.50' LT	2736542.5196	865478.5591
MARION ROAD	14+35.95	33.23' LT	2736543.7365	865476.1179
MARION ROAD	14+41.62	30.50' LT	2736547.5981	865481.0906
MARION ROAD	14+41.62	33.23' LT	2736548.8150	865478.6494
MARION ROAD	14+82.11	30.50' LT	2736583.8367	865499.1544
MARION ROAD	14+82.11	36.14' LT	2736586.3521	865494.1082
MARION ROAD	14+89.61	30.56' LT	2736540.5776	865502.4429
MARION ROAD	14+89.61	36.14' LT	2736543.0644	865497.4541
MARION ROAD	15+50.87	31.31' LT	2736645.7324	865529.0947
MARION ROAD	15+50.82	37.55' LT	2736648.4717	865523.4934
MARION ROAD	15+77.69	37.71' LT	2736672.5968	865535.3341
MARION ROAD	15+77.70	31.46' LT	2736669.8139	865540.9332
MARION ROAD	16+00.07	31.50' LT	2736689.8480	865550.8763
MARION ROAD	16+04.82	33.06' RT	2736665.3020	865640.7735
MARION ROAD	16+09.58	36.12' RT	2736668.1970	865615.6414
MARION ROAD	16+18.05	31.00' RT	2736678.0636	865614.8363
MARION ROAD	17+82.47	31.50' LT	2736853.0931	865632.2466
MARION ROAD	18+50.11	31.21' LT	2736913.4996	865662.6804
MARION ROAD	18+72.70	45.74' LT	2736940.2014	865659.7520
MARION ROAD	19+13.37	44.97' LT	2736976.2577	865678.5826
MARION ROAD	19+31.11	30.49' LT	2736985.6745	865699.4582

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	35	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 5 OF 10

610647_HD08(CURB-TIE_GRAD_05).DWG Plotted on 3-Mar-2026 8:28 AM

CONTINUED ON SHEET NO. 33

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	14+35.95	30.50' LT	2736542.5196	865478.5591
MARION ROAD	14+35.95	33.23' LT	2736543.7365	865476.1179
MARION ROAD	14+41.62	30.50' LT	2736547.5981	865481.0906
MARION ROAD	14+41.62	33.23' LT	2736548.8150	865478.6494
MARION ROAD	14+82.11	30.50' LT	2736583.8367	865499.1544
MARION ROAD	14+82.11	36.14' LT	2736586.3521	865494.1082
MARION ROAD	14+89.61	30.56' LT	2736540.5776	865502.4429
MARION ROAD	14+89.61	36.14' LT	2736543.0644	865497.4541
MARION ROAD	15+50.87	31.31' LT	2736645.7324	865529.0947
MARION ROAD	15+50.82	37.55' LT	2736648.4717	865523.4934
MARION ROAD	15+77.69	37.71' LT	2736672.5968	865535.3341
MARION ROAD	15+77.70	31.46' LT	2736669.8139	865540.9332
MARION ROAD	16+00.07	31.50' LT	2736689.8480	865550.8763
MARION ROAD	16+04.82	33.06' RT	2736665.3020	865640.7735
MARION ROAD	16+09.58	36.12' RT	2736668.1970	865615.6414
MARION ROAD	16+18.05	31.00' RT	2736678.0636	865614.8363

BOUND REMOVED AND RESET (ITEM 711.)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
SWIFTS BEACH ROAD	100+78.54	35.96' LT	2736576.1072	865625.8904
SWIFTS BEACH ROAD	100+79.47	39.51' LT	2736577.6063	865629.2360

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PT	13+43.05	2736445.769	865464.411		N26°29'39"E 808.58'	21+51.63	2737169.431	865825.123

SWIFTS BEACH ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	100+00.00	2736614.856	865548.693		S38°44'40"E 146.64'	101+46.64	2736500.484	865640.468
PC	101+46.64	2736500.484	865640.468	R= 515.00' Δ= 5°58'40" L=53.73' T=26.89'		102+00.37	2736456.901	865671.850
PT	102+00.37	2736456.901	865671.850		S32°46'00"E 18.09'	102+18.46	2736441.692	865681.639

Curve Table			
Curve #	Delta	Radius	Length
C4	1°51'27"	6496.00	210.59
C5	107°31'01"	40.00	75.06
C6	13°08'25"	500.00	114.67
C7	65°14'19"	90.00	102.48
C53	53°13'10"	3.00	2.79
C54	50°09'16"	25.00	21.88
C55	112°24'55"	5.50	10.79

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 34

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	36	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 6 OF 10

610647_HD08(CURB-TIE_GRAD_06).DWG Plotted on 3-Mar-2026 8:29 AM

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PT	13+43.05	2736445.769	865464.411		N26°29'39"E 808.58'	21+51.63	2737169.431	865825.123
PC	21+51.63	2737169.431	865825.123	R=1051.00' Δ=20°29'14" L=375.81' T=189.93'		25+27.43	2737468.994	866048.718
PT	25+27.43	2737468.994	866048.718		N46°58'53"E 390.73'	29+18.16	2737735.563	866334.394

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	20+90.34	31.00' RT	2737100.7473	865825.5249
MARION ROAD	21+18.49	29.51' RT	2737126.6075	865836.7475

Curve Table			
Curve #	Delta	Radius	Length
C12	0°38'18"	8363.87	93.16
C13	89°40'06"	20.00	31.29
C14	87°31'58"	15.00	22.92
C15	0°51'29"	7546.69	113.02
C16	66°25'19"	25.00	28.98
C17	56°37'59"	30.00	29.65
C18	50°23'23"	15.00	13.19
C19	131°52'12"	3.00	6.90
C20	131°34'22"	3.00	6.90
C21	50°01'08"	15.00	13.10
C22	50°10'54"	15.00	13.14
C23	131°40'51"	3.00	6.90
C24	0°00'03"	640601.29	8.93
C25	65°59'36"	15.96	18.38

CONTINUED ON SHEET NO. 34
CONTINUED ON SHEET NO. 37

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

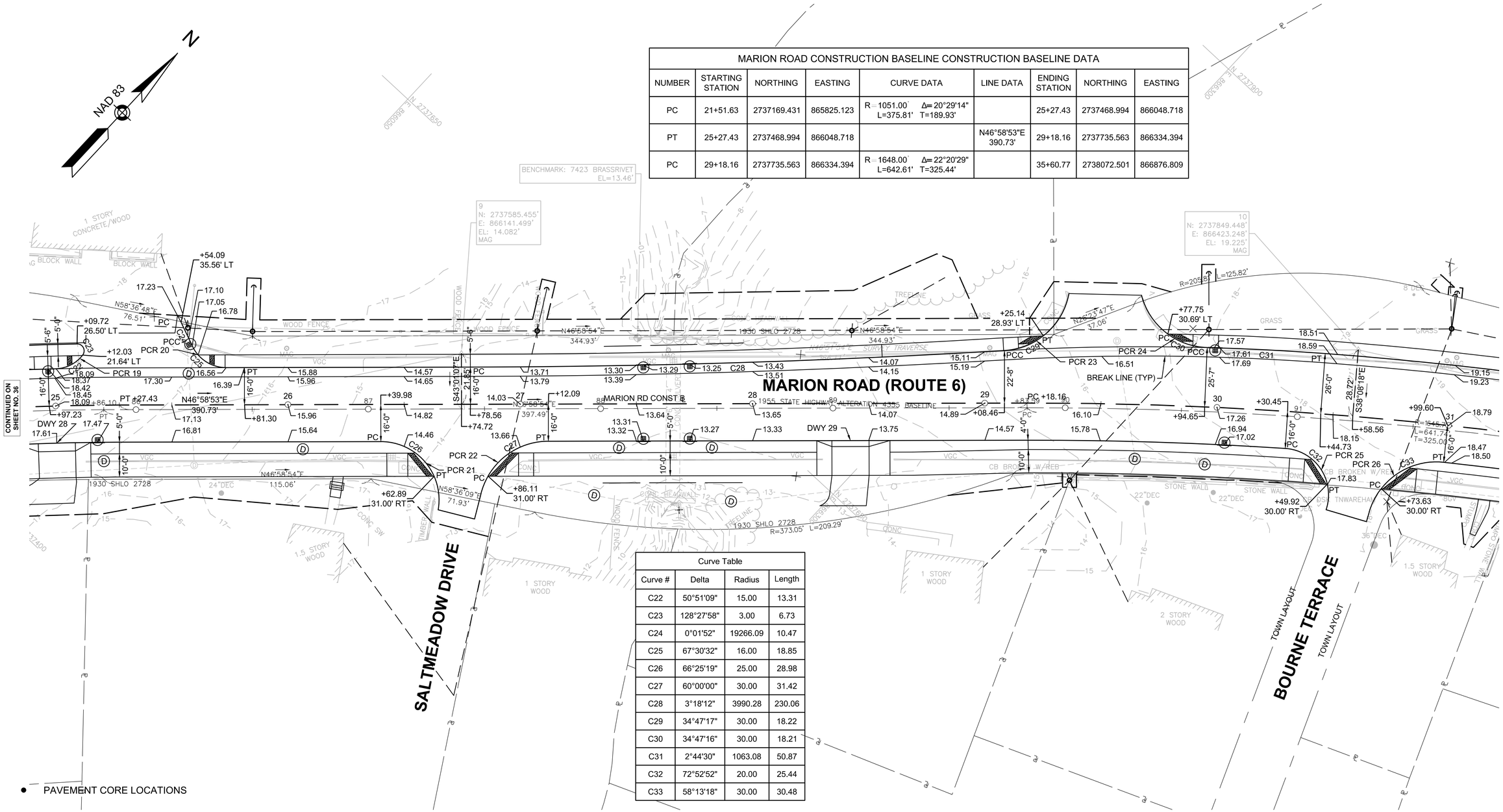
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	37	131
	PROJECT FILE NO.	610647	

CURB TIE & GRADING PLANS
SHEET 7 OF 10

610647_HD08(CURB-TIE_GRAD_07).DWG Plotted on 3-Mar-2026 8:29 AM

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PC	21+51.63	2737169.431	865825.123	R=1051.00' Δ=20°29'14" L=375.81' T=189.93'		25+27.43	2737468.994	866048.718
PT	25+27.43	2737468.994	866048.718		N46°58'53"E 390.73'	29+18.16	2737735.563	866334.394
PC	29+18.16	2737735.563	866334.394	R=1648.00' Δ=22°20'29" L=642.61' T=325.44'		35+60.77	2738072.501	866876.809



Curve Table			
Curve #	Delta	Radius	Length
C22	50°51'09"	15.00	13.31
C23	128°27'58"	3.00	6.73
C24	0°01'52"	19266.09	10.47
C25	67°30'32"	16.00	18.85
C26	66°25'19"	25.00	28.98
C27	60°00'00"	30.00	31.42
C28	3°18'12"	3990.28	230.06
C29	34°47'17"	30.00	18.22
C30	34°47'16"	30.00	18.21
C31	2°44'30"	1063.08	50.87
C32	72°52'52"	20.00	25.44
C33	58°13'18"	30.00	30.48

● PAVEMENT CORE LOCATIONS

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

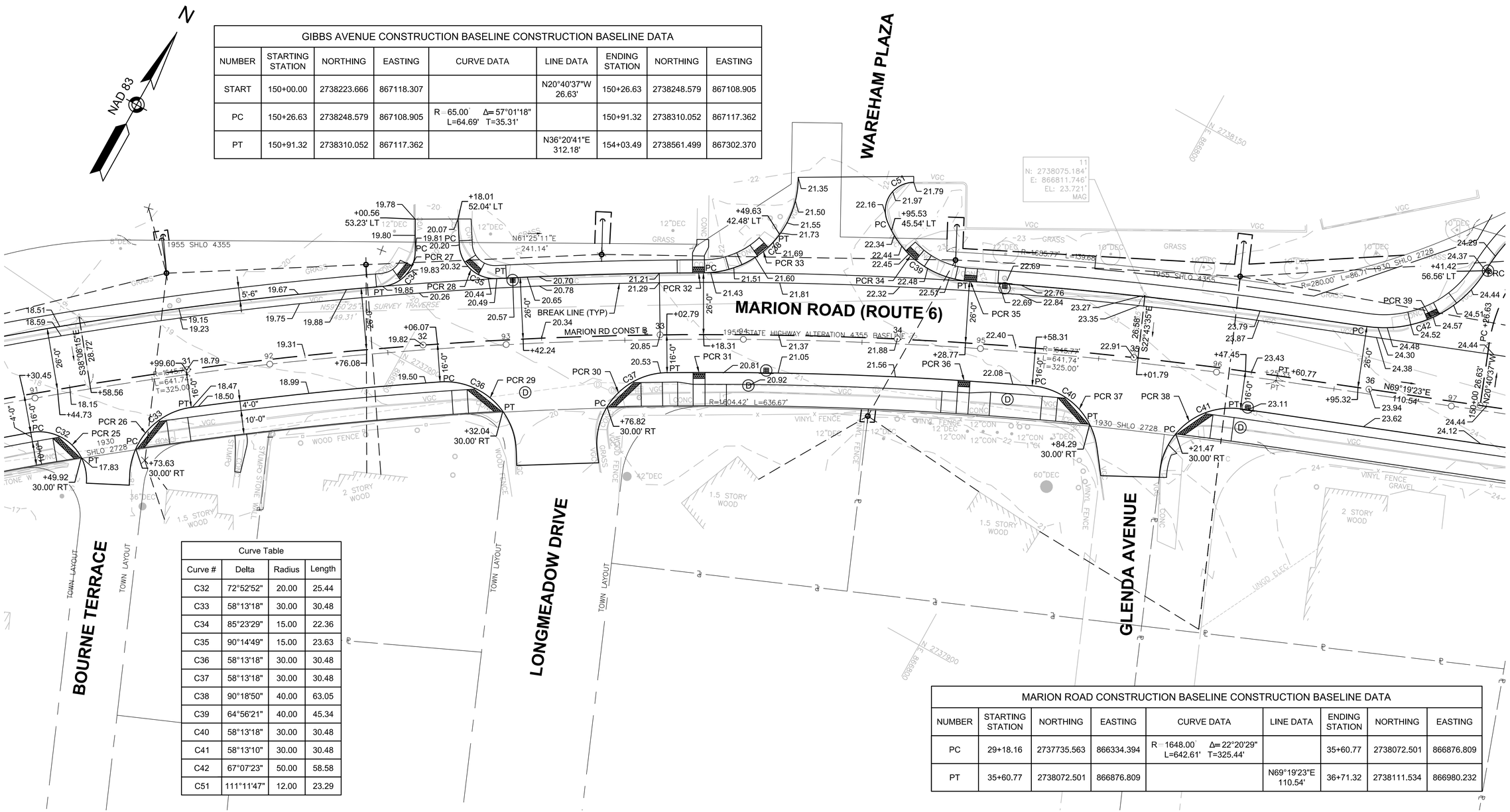
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	38	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 8 OF 10

610647_HD08(CURB-TIE_GRAD_08).DWG Plotted on 3-Mar-2026 8:29 AM

GIBBS AVENUE CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	150+00.00	2738223.666	867118.307		N20°40'37"W 26.63'	150+26.63	2738248.579	867108.905
PC	150+26.63	2738248.579	867108.905	R=65.00' Δ=57°01'18" L=64.69' T=35.31'		150+91.32	2738310.052	867117.362
PT	150+91.32	2738310.052	867117.362		N36°20'41"E 312.18'	154+03.49	2738561.499	867302.370



Curve Table			
Curve #	Delta	Radius	Length
C32	72°52'52"	20.00	25.44
C33	58°13'18"	30.00	30.48
C34	85°23'29"	15.00	22.36
C35	90°14'49"	15.00	23.63
C36	58°13'18"	30.00	30.48
C37	58°13'18"	30.00	30.48
C38	90°18'50"	40.00	63.05
C39	64°56'21"	40.00	45.34
C40	58°13'18"	30.00	30.48
C41	58°13'10"	30.00	30.48
C42	67°07'23"	50.00	58.58
C51	111°11'47"	12.00	23.29

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PC	29+18.16	2737735.563	866334.394	R=1648.00' Δ=22°20'29" L=642.61' T=325.44'		35+60.77	2738072.501	866876.809
PT	35+60.77	2738072.501	866876.809		N69°19'23"E 110.54'	36+71.32	2738111.534	866980.232

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

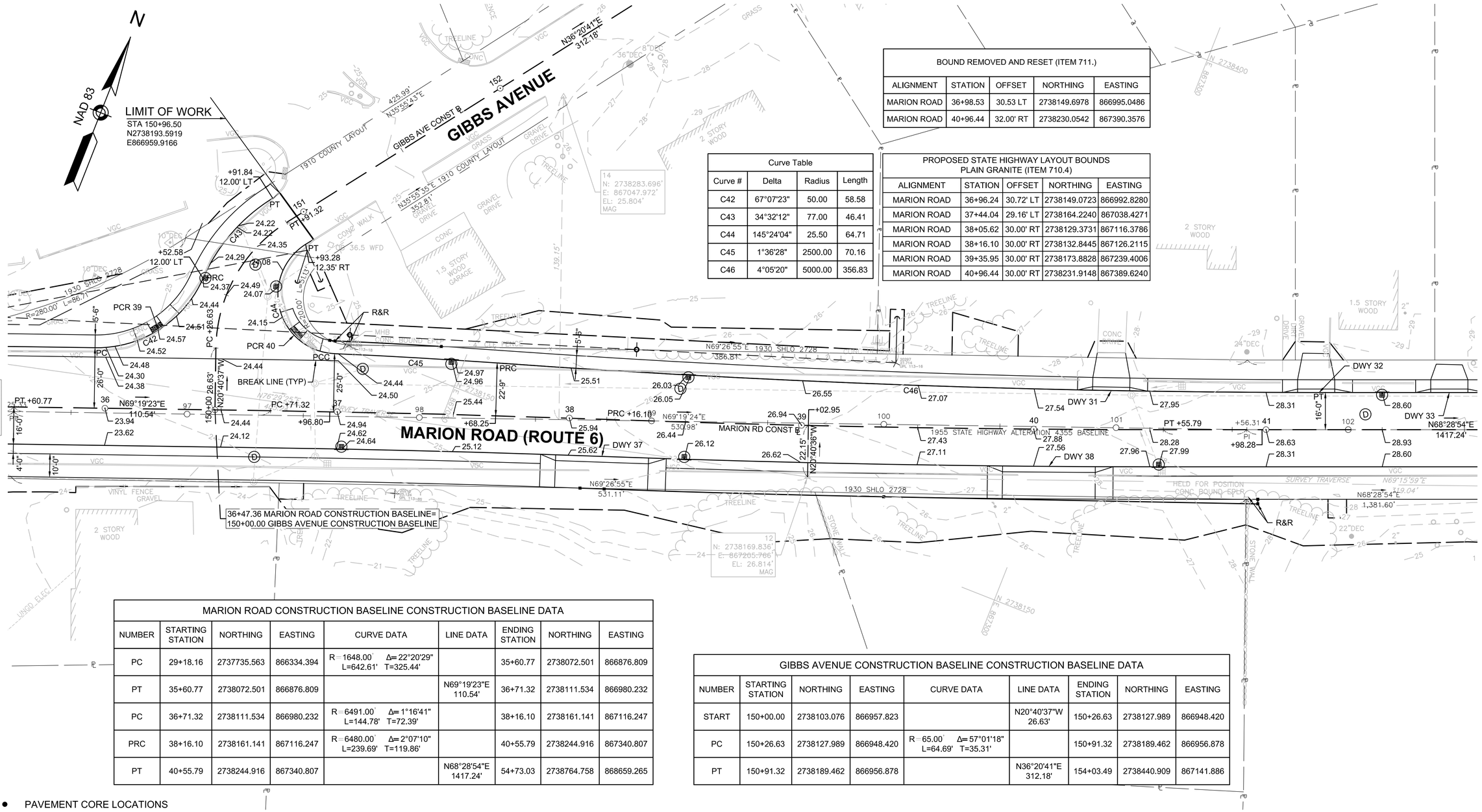
0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	39	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 9 OF 10

610647_HD08(CURB-TIE_GRAD_09).DWG Plotted on 3-Mar-2026 8:29 AM



BOUND REMOVED AND RESET (ITEM 711.)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	36+98.53	30.53 LT	2738149.6978	866995.0486
MARION ROAD	40+96.44	32.00' RT	2738230.0542	867390.3576

Curve Table			
Curve #	Delta	Radius	Length
C42	67°07'23"	50.00	58.58
C43	34°32'12"	77.00	46.41
C44	145°24'04"	25.50	64.71
C45	1°36'28"	2500.00	70.16
C46	4°05'20"	5000.00	356.83

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	36+96.24	30.72' LT	2738149.0723	866992.8280
MARION ROAD	37+44.04	29.16' LT	2738164.2240	867038.4271
MARION ROAD	38+05.62	30.00' RT	2738129.3731	867116.3786
MARION ROAD	38+16.10	30.00' RT	2738132.8445	867126.2115
MARION ROAD	39+35.95	30.00' RT	2738173.8828	867239.4006
MARION ROAD	40+96.44	30.00' RT	2738231.9148	867389.6240

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PC	29+18.16	2737735.563	866334.394	R=1648.00' Δ=22°20'29" L=642.61' T=325.44'		35+60.77	2738072.501	866876.809
PT	35+60.77	2738072.501	866876.809		N69°19'23"E 110.54'	36+71.32	2738111.534	866980.232
PC	36+71.32	2738111.534	866980.232	R=6491.00' Δ=1°16'41" L=144.78' T=72.39'		38+16.10	2738161.141	867116.247
PRC	38+16.10	2738161.141	867116.247	R=6480.00' Δ=2°07'10" L=239.69' T=119.86'		40+55.79	2738244.916	867340.807
PT	40+55.79	2738244.916	867340.807		N68°28'54"E 1417.24'	54+73.03	2738764.758	868659.265

GIBBS AVENUE CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
START	150+00.00	2738103.076	866957.823		N20°40'37"W 26.63'	150+26.63	2738127.989	866948.420
PC	150+26.63	2738127.989	866948.420	R=65.00' Δ=57°01'18" L=64.69' T=35.31'		150+91.32	2738189.462	866956.878
PT	150+91.32	2738189.462	866956.878		N36°20'41"E 312.18'	154+03.49	2738440.909	867141.886

- PAVEMENT CORE LOCATIONS

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	40	131
	PROJECT FILE NO. 610647		

CURB TIE & GRADING PLANS
SHEET 10 OF 10

610647_HD08(CURB-TIE_GRAD_10).DWG Plotted on 3-Mar-2026 8:30 AM

MARION ROAD CONSTRUCTION BASELINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
PC	40+55.79	2738244.916	867340.807		N68°28'54"E 1417.24'	54+73.03	2738764.758	868659.265

END PROJECT
STA 45+00.00
N 2738407.8518
E 867754.0552

MARION ROAD (RTE 6)

CONTINUED ON SHEET NO. 39

PROPOSED STATE HIGHWAY LAYOUT BOUNDS PLAIN GRANITE (ITEM 710.4)				
ALIGNMENT	STATION	OFFSET	NORTHING	EASTING
MARION ROAD	40+96.44	30.00' LT	2738231.9148	867389.6240

Curve Table			
Curve #	Delta	Radius	Length
C47	68°42'15"	22.00	26.38
C48	88°05'34"	30.00	46.13
C49	4°30'30"	500.00	39.34
C50	4°27'00"	250.00	19.42

NOTES:

1. GRADES SHOWN ARE AT PAVEMENT ELEVATION UNLESS OTHER SPECIFIED.
2. GRADES ARE SHOWN AT 10' INTERVALS ALONG CURVES WITHIN INTERSECTIONS STARTING AT THE PC.

0 20 50 100
SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

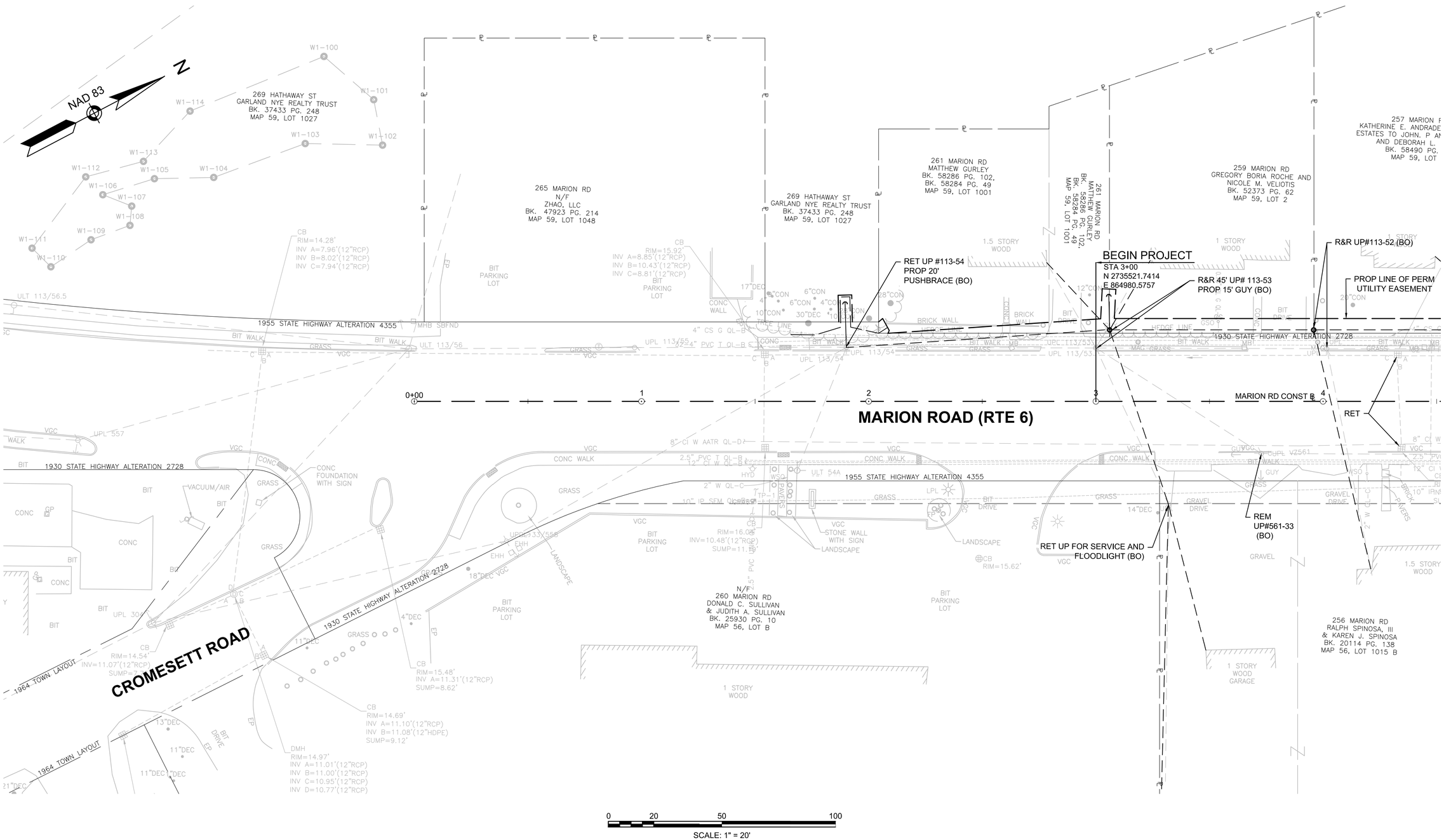
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	41	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS

SHEET 1 OF 10

610647_HD12(DRAIN-UTILITY_01).DWG Plotted on 3-Mar-2026 8:30 AM



0 20 50 100

SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

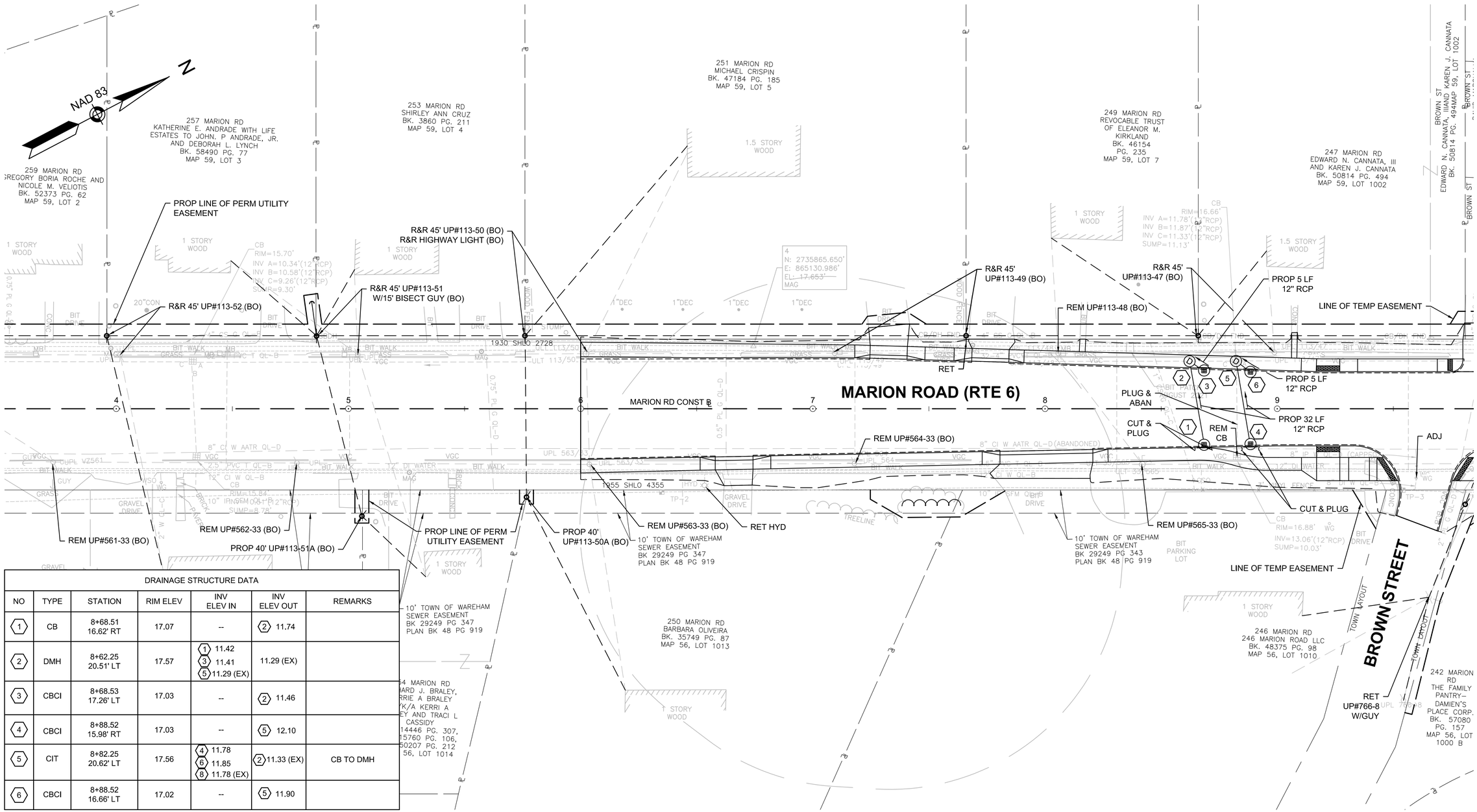
SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	42	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS
SHEET 2 OF 10

610647_HD12(DRAIN-UTILITY_02).DWG Plotted on 3-Mar-2026 8:30 AM



DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
1	CB	8+68.51 16.62' RT	17.07	--	2 11.74	
2	DMH	8+62.25 20.51' LT	17.57	1 11.42 3 11.41 5 11.29 (EX)	11.29 (EX)	
3	CBCI	8+68.53 17.26' LT	17.03	--	2 11.46	
4	CBCI	8+88.52 15.98' RT	17.03	--	5 12.10	
5	CIT	8+82.25 20.62' LT	17.56	4 11.78 6 11.85 8 11.78 (EX)	2 11.33 (EX)	CB TO DMH
6	CBCI	8+88.52 16.66' LT	17.02	--	5 11.90	

0 20 50 100

SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

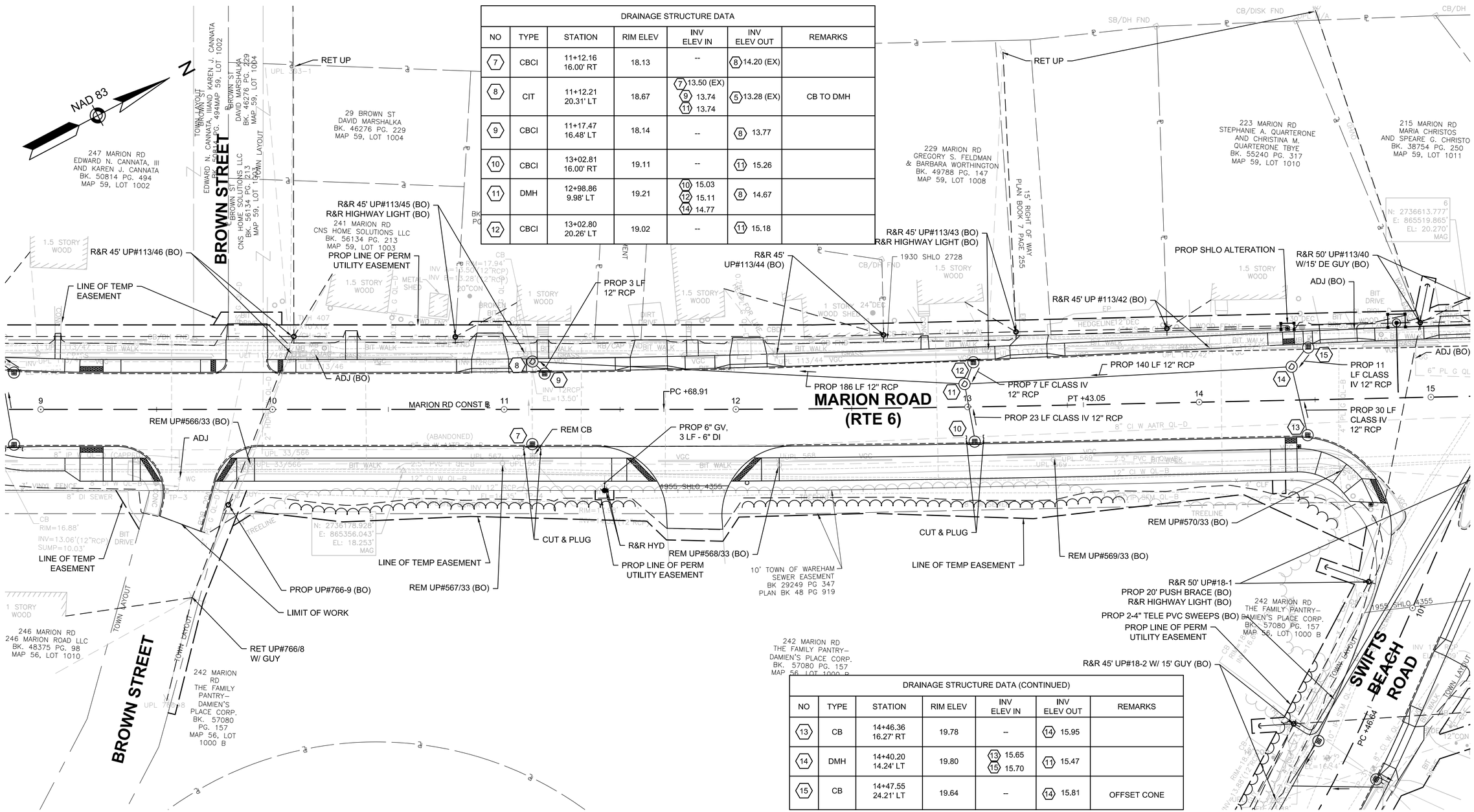
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	43	131
	PROJECT FILE NO.	610647	

DRAINAGE AND UTILITY PLANS
SHEET 3 OF 10

610647_HD12(DRAIN-UTILITY_03).DWG Plotted on 3-Mar-2026 8:31 AM

DRAINAGE STRUCTURE DATA

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
7	CBCI	11+12.16 16.00' RT	18.13	--	8 14.20 (EX)	
8	CIT	11+12.21 20.31' LT	18.67	7 13.50 (EX) 9 13.74 11 13.74	5 13.28 (EX)	CB TO DMH
9	CBCI	11+17.47 16.48' LT	18.14	--	8 13.77	
10	CBCI	13+02.81 16.00' RT	19.11	--	11 15.26	
11	DMH	12+98.86 9.98' LT	19.21	10 15.03 12 15.11 14 14.77	8 14.67	
12	CBCI	13+02.80 20.26' LT	19.02	--	11 15.18	



DRAINAGE STRUCTURE DATA (CONTINUED)

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
13	CB	14+46.36 16.27' RT	19.78	–	14 15.95	
14	DMH	14+40.20 14.24' LT	19.80	13 15.65 15 15.70	11 15.47	
15	CB	14+47.55 24.21' LT	19.64	–	14 15.81	OFFSET CONE

0 20 50 100

SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

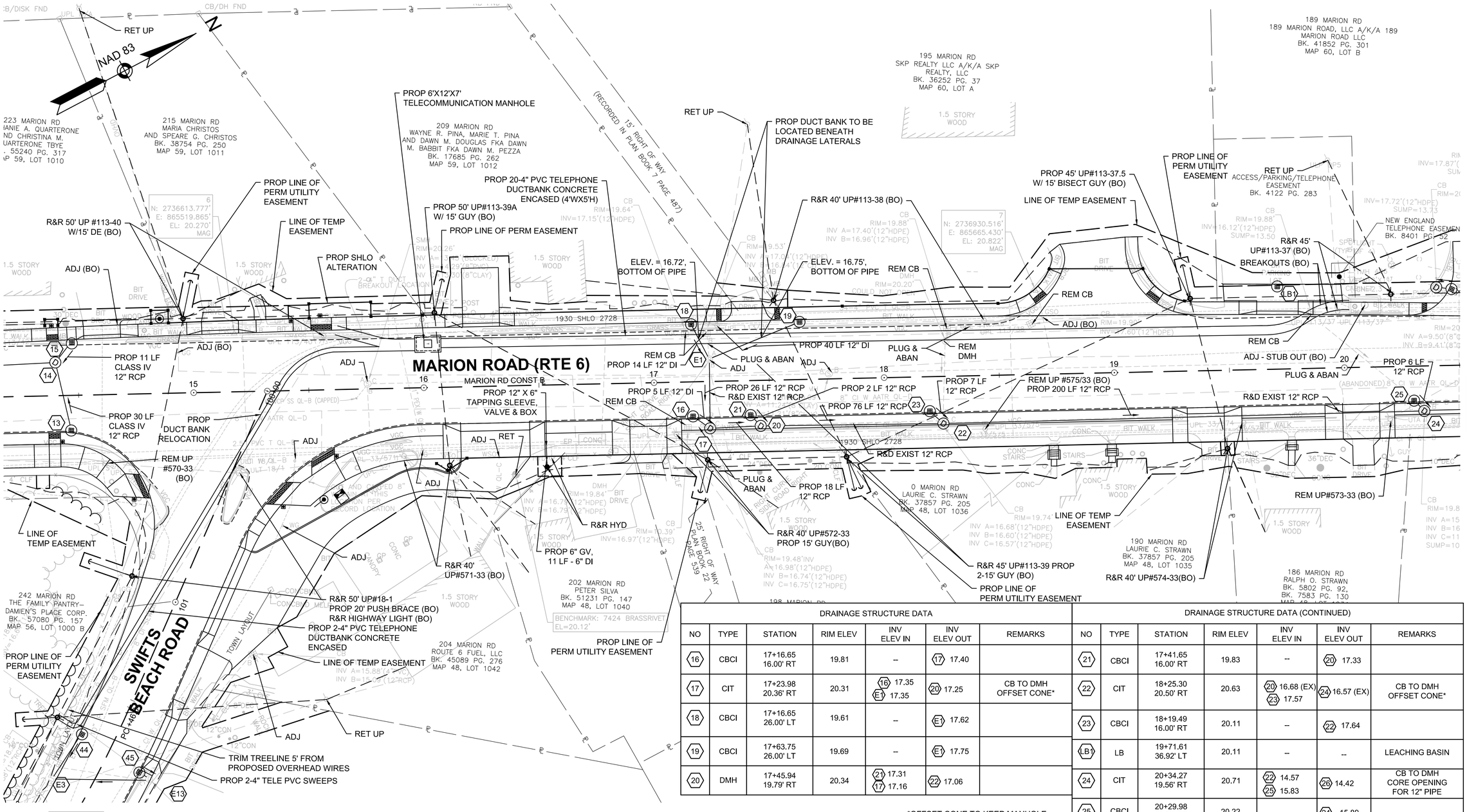
SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	44	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS
SHEET 4 OF 10

610647_HD12(DRAIN-UTILITY_04).DWG Plotted on 3-Mar-2026 8:31 AM



DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
16	CBCI	17+16.65 16.00' RT	19.81	--	17 17.40	
17	CIT	17+23.98 20.36' RT	20.31	16 17.35 E1 17.35	20 17.25	CB TO DMH OFFSET CONE*
18	CBCI	17+16.65 26.00' LT	19.61	--	E1 17.62	
19	CBCI	17+63.75 26.00' LT	19.69	--	E1 17.75	
20	DMH	17+45.94 19.79' RT	20.34	21 17.31 17 17.16	22 17.06	

DRAINAGE STRUCTURE DATA (CONTINUED)						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
21	CBCI	17+41.65 16.00' RT	19.83	--	20 17.33	
22	CIT	18+25.30 20.50' RT	20.63	20 16.68 (EX) 23 17.57	24 16.57 (EX)	CB TO DMH OFFSET CONE*
23	CBCI	18+19.49 16.00' RT	20.11	--	22 17.64	
LB1	LB	19+71.61 36.92' LT	20.11	--	--	LEACHING BASIN
24	CIT	20+34.27 19.56' RT	20.71	22 14.57 25 15.83	26 14.42	CB TO DMH CORE OPENING FOR 12" PIPE
25	CBCI	20+29.98 16.00' RT	20.22	--	24 15.89	
E1	DMH	17+24.19 9.63' LT	19.94	18 17.55 19 17.55	17 17.45	CORE OPENING FOR 12" PIPES

*OFFSET CONE TO KEEP MANHOLE COVER OUTSIDE OF SHARED USE PATH.

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

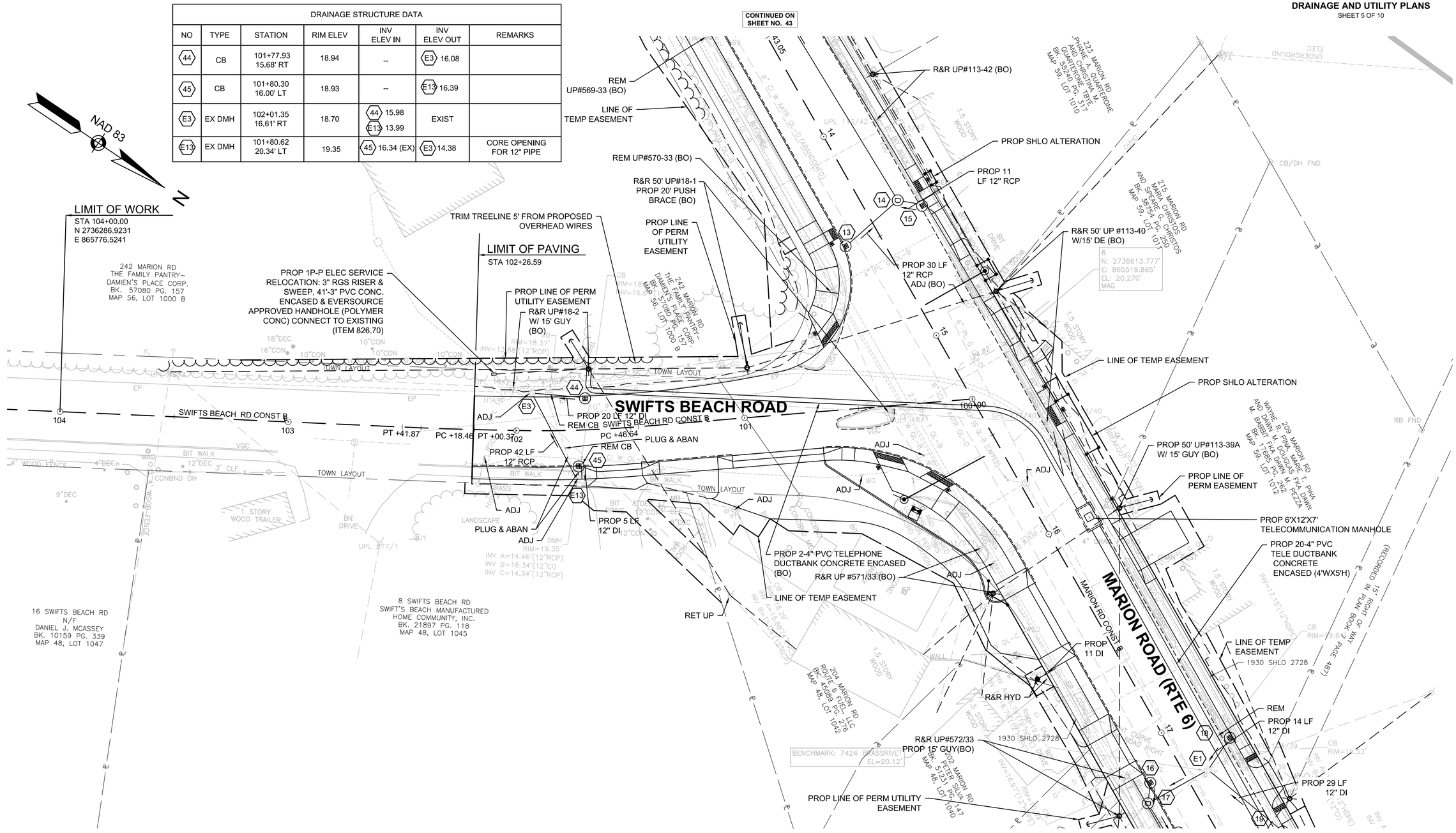
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	45	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS

SHEET 5 OF 10

DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
44	CB	101+77.93 15.68' RT	18.94	--	E3 16.08	
45	CB	101+80.30 16.00' LT	18.93	--	E13 16.39	
E3	EX DMH	102+01.35 16.61' RT	18.70	44 15.98 E13 13.99	EXIST	
E13	EX DMH	101+80.62 20.34' LT	19.35	45 16.34 (EX)	E3 14.38	CORE OPENING FOR 12" PIPE



610647_HD12(DRAIN-UTILITY_05).DWG Plotted on 3-Mar-2026 8:31 AM

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

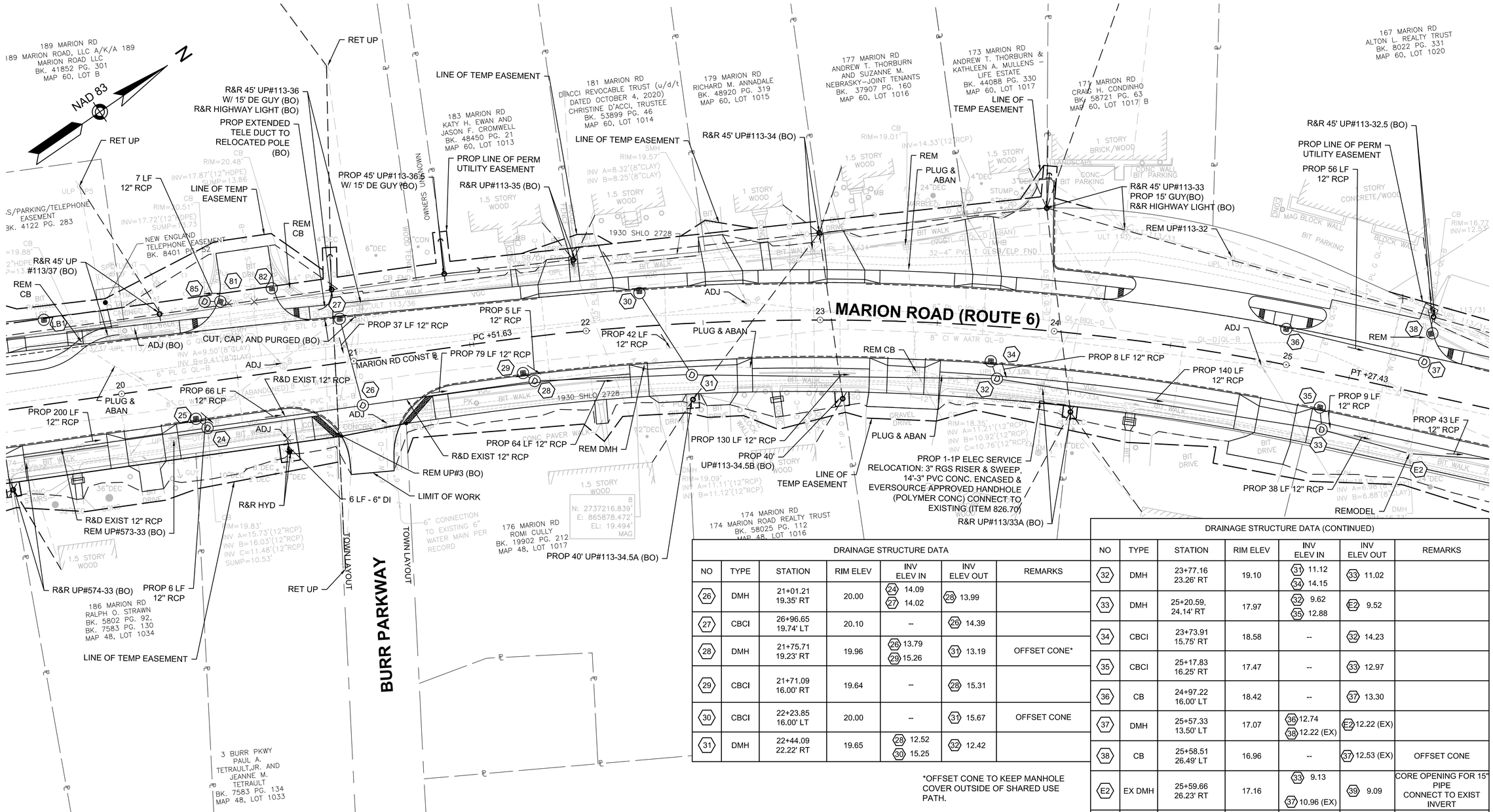
SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	46	131
	PROJECT FILE NO.	610647	

DRAINAGE AND UTILITY PLANS
SHEET 6 OF 10

610647_HD12(DRAIN-UTILITY_06).DWG Plotted on 3-Mar-2026 8:32 AM



0 20 50 100

SCALE: 1" = 20'

DRAINAGE STRUCTURE DATA

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
26	DMH	21+01.21 19.35' RT	20.00	24 14.09 27 14.02	28 13.99	
27	CBCI	26+96.65 19.74' LT	20.10	--	26 14.39	
28	DMH	21+75.71 19.23' RT	19.96	26 13.79 29 15.26	31 13.19	OFFSET CONE*
29	CBCI	21+71.09 16.00' RT	19.64	--	28 15.31	
30	CBCI	22+23.85 16.00' LT	20.00	--	31 15.67	OFFSET CONE
31	DMH	22+44.09 22.22' RT	19.65	28 12.52 30 15.25	32 12.42	

*OFFSET CONE TO KEEP MANHOLE COVER OUTSIDE OF SHARED USE PATH.

DRAINAGE STRUCTURE DATA (CONTINUED)

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
32	DMH	23+77.16 23.26' RT	19.10	31 11.12 34 14.15	33 11.02	
33	DMH	25+20.59, 24.14' RT	17.97	32 9.62 35 12.88	E2 9.52	
34	CBCI	23+73.91 15.75' RT	18.58	--	32 14.23	
35	CBCI	25+17.83 16.25' RT	17.47	--	33 12.97	
36	CB	24+97.22 16.00' LT	18.42	--	37 13.30	
37	DMH	25+57.33 13.50' LT	17.07	36 12.74 38 12.22 (EX)	E2 12.22 (EX)	
38	CB	25+58.51 26.49' LT	16.96	--	37 12.53 (EX)	OFFSET CONE
E2	EX DMH	25+59.66 26.23' RT	17.16	33 9.13 37 10.96 (EX)	39 9.09	CORE OPENING FOR 15" PIPE CONNECT TO EXIST INVERT
81	CB	20+47.75 33.01' LT	20.25	--	85 17.80	
82	CB	20+74.33 34.72' LT	20.01	--	EXIST	CONNECT TO EXIST INVERT. EXTEND PIPE AT 1% SLOPE
85	CIT	20+40.49 34.01' LT	20.51	81 17.73	EXIST	CB TO DMH

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	47	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS
SHEET 7 OF 10

610647_HD12(DRAIN-UTILITY_07).DWG Plotted on 3-Mar-2026 8:32 AM

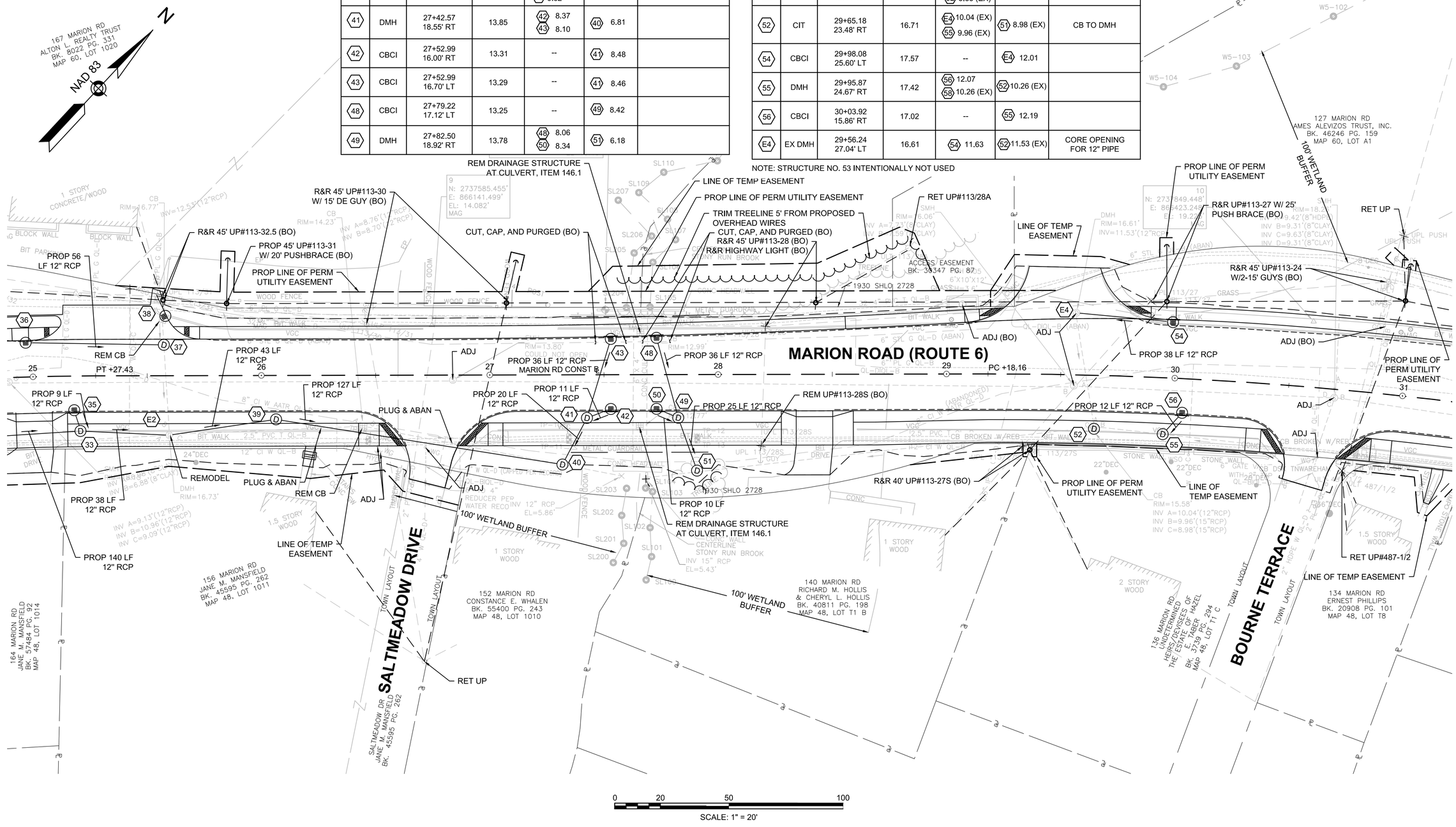
DRAINAGE STRUCTURE DATA

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
39	DMH	26+06.39 19.24' RT	15.99	E2 8.62	40 8.52	
40	DMH	27+31.75 39.71' RT	12.96	39 7.25 41 6.62	6.52 (EX)	
41	DMH	27+42.57 18.55' RT	13.85	42 8.37 43 8.10	40 6.81	
42	CBCI	27+52.99 16.00' RT	13.31	--	41 8.48	
43	CBCI	27+52.99 16.70' LT	13.29	--	41 8.46	
48	CBCI	27+79.22 17.12' LT	13.25	--	49 8.42	
49	DMH	27+82.50 18.92' RT	13.78	48 8.06 50 8.34	51 6.18	

DRAINAGE STRUCTURE DATA (CONTINUED)

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
50	CBCI	27+72.99 16.00' RT	13.27	--	49 8.44	
51	DMH	27+90.67 42.11' RT	12.93	49 5.93 52 5.83 (EX)	5.83 (EX)	
52	CIT	29+65.18 23.48' RT	16.71	E4 10.04 (EX) 55 9.96 (EX)	51 8.98 (EX)	CB TO DMH
54	CBCI	29+98.08 25.60' LT	17.57	--	E4 12.01	
55	DMH	29+95.87 24.67' RT	17.42	56 12.07 58 10.26 (EX)	52 10.26 (EX)	
56	CBCI	30+03.92 15.86' RT	17.02	--	55 12.19	
E4	EX DMH	29+56.24 27.04' LT	16.61	54 11.63	52 11.53 (EX)	CORE OPENING FOR 12" PIPE

NOTE: STRUCTURE NO. 53 INTENTIONALLY NOT USED



0 20 50 100

SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

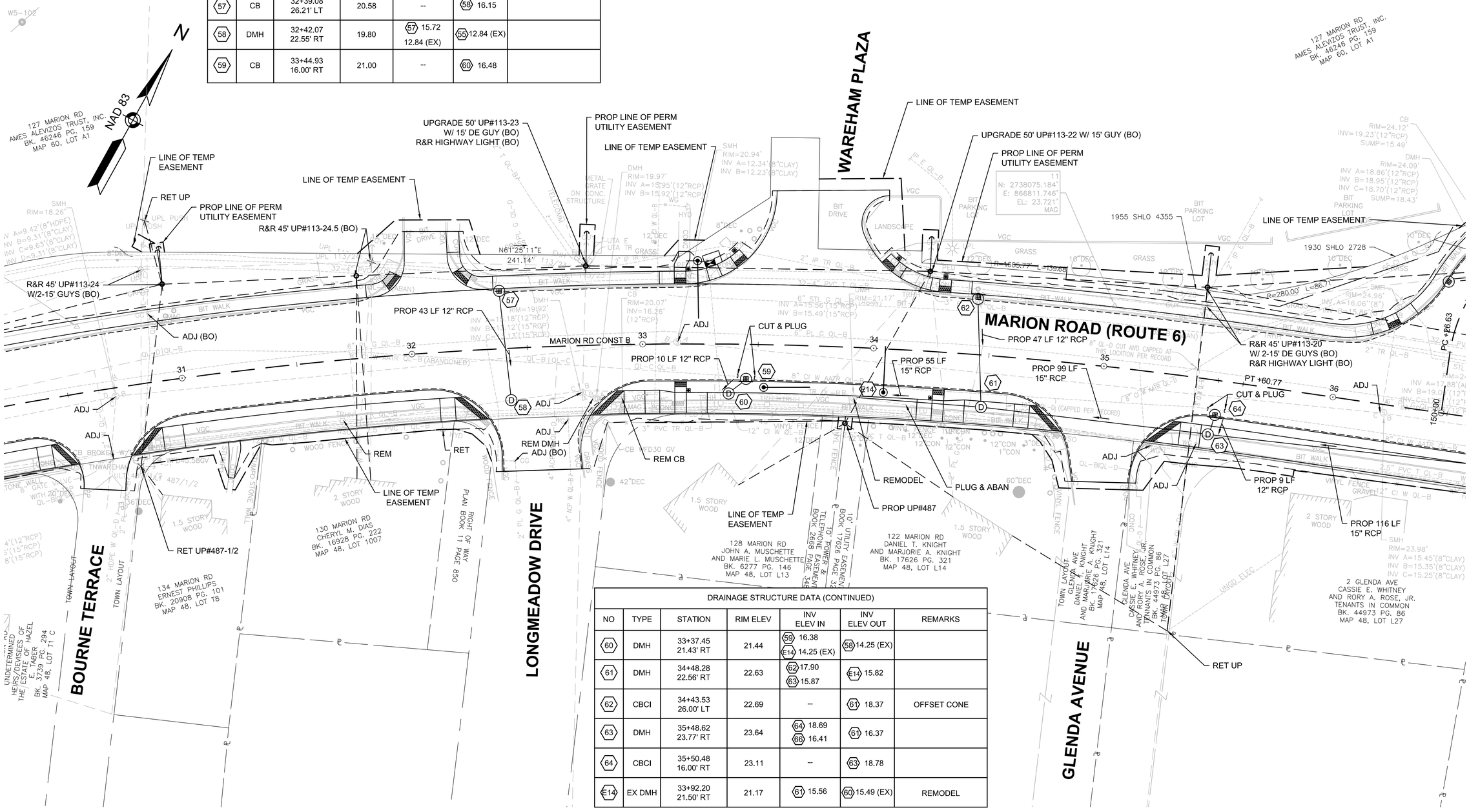
DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
57	CB	32+39.08 26.21' LT	20.58	--	58 16.15	
58	DMH	32+42.07 22.55' RT	19.80	57 15.72 12.84 (EX)	55 12.84 (EX)	
59	CB	33+44.93 16.00' RT	21.00	--	60 16.48	

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	48	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS
SHEET 8 OF 10

610647_HD12(DRAIN-UTILITY_08).DWG Plotted on 3-Mar-2026 8:32 AM



DRAINAGE STRUCTURE DATA (CONTINUED)						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
60	DMH	33+37.45 21.43' RT	21.44	59 16.38 E14 14.25 (EX)	58 14.25 (EX)	
61	DMH	34+48.28 22.56' RT	22.63	62 17.90 63 15.87	E14 15.82	
62	CBCI	34+43.53 26.00' LT	22.69	--	61 18.37	OFFSET CONE
63	DMH	35+48.62 23.77' RT	23.64	64 18.69 66 16.41	61 16.37	
64	CBCI	35+50.48 16.00' RT	23.11	--	63 18.78	
E14	EX DMH	33+92.20 21.50' RT	21.17	61 15.56	60 15.49 (EX)	REMODEL

0 20 50 100

SCALE: 1" = 20'

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW

DRAINAGE STRUCTURE DATA (CONTINUED)						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
73	CBCI	37+48.60 23.49' LT	24.96	--	74 20.63	OFFSET CONE
74	CIT	37+10.79 18.05' RT	24.51	73 20.25	E9 19.91 (EX)	CB TO DMH
83	DMH	150+68.20 4.53' LT	24.27	67 19.64 19.05 (EX)	E10 19.05 (EX)	
E8	EX DMH	36+91.00 19.35' RT	25.03	E9 17.31 65 20.19	66 17.21	REMODEL CORE OPENINGS FOR 15" PIPE
E9	EX DMH	36+90.17 12.04' LT	24.60	74 19.09 (EX)	E8 17.46	CONNECT TO EX INVERT CORE OPENINGS FOR 15" PIPE
E10	EX DMH	150+57.96 16.47' RT	24.17	69 18.95 (EX) 83 18.86 (EX)	66 18.70 (EX)	CONNECT TO EXIST INVERT
E11	EX DMH	40+42.00 14.83' LT	27.91	68 20.46 (EX) 75 20.51	70 20.44 (EX)	CONNECT TO EXIST INVERT

NOTE: STRUCTURE NO. E5, E6, E7 & E12 INTENTIONALLY NOT USED.

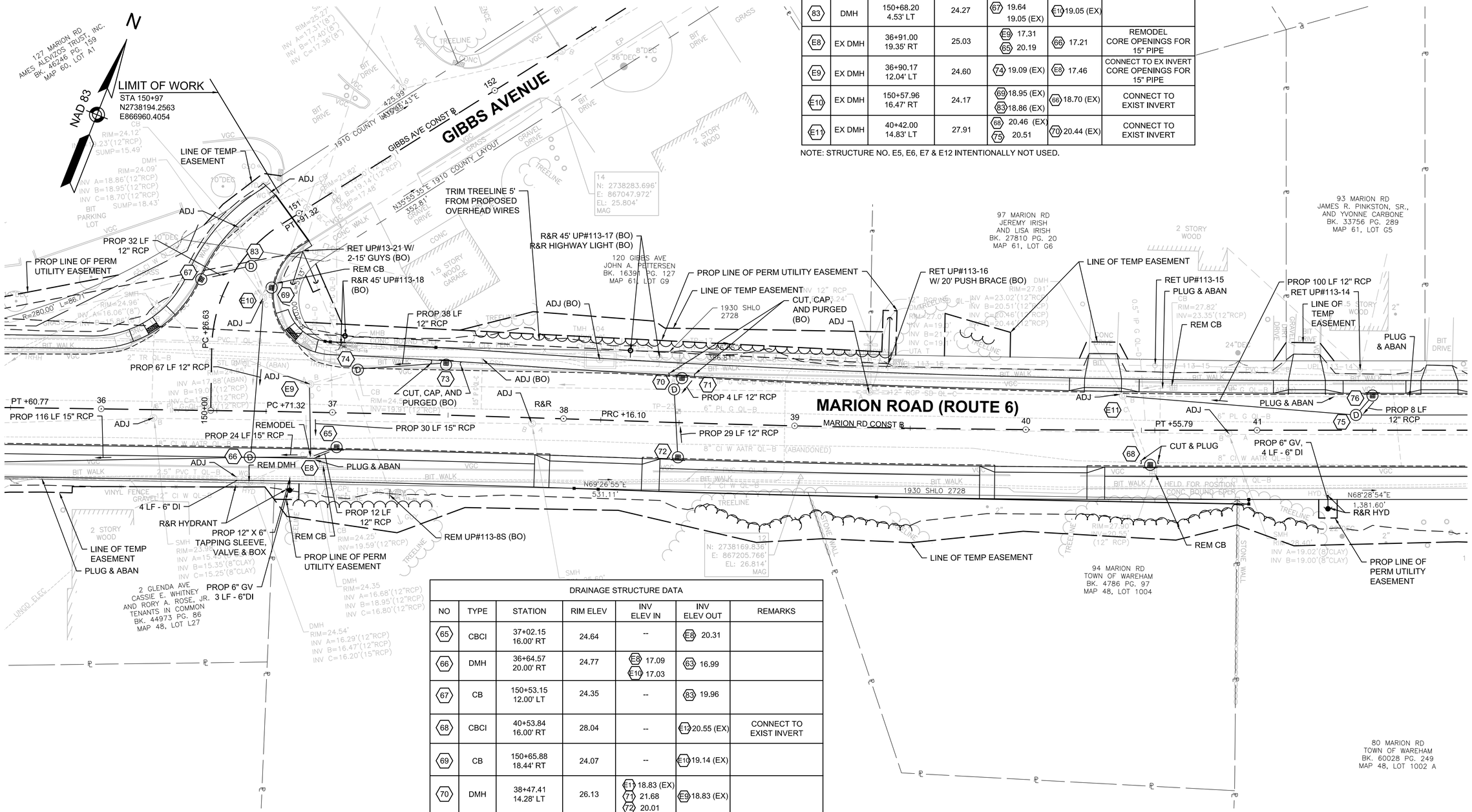
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	49	131
	PROJECT FILE NO. 610647		

DRAINAGE AND UTILITY PLANS

SHEET 9 OF 10

610647_HD12(DRAIN-UTILITY_09).DWG Plotted on 3-Mar-2026 8:33 AM



DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
65	CBCI	37+02.15 16.00' RT	24.64	--	E8 20.31	
66	DMH	36+64.57 20.00' RT	24.77	E8 17.09 E10 17.03	63 16.99	
67	CB	150+53.15 12.00' LT	24.35	--	83 19.96	
68	CBCI	40+53.84 16.00' RT	28.04	--	E12 20.55 (EX)	CONNECT TO EXIST INVERT
69	CB	150+65.88 18.44' RT	24.07	--	E10 19.14 (EX)	
70	DMH	38+47.41 14.28' LT	26.13	E11 18.83 (EX) 71 21.68 72 20.01	E9 18.83 (EX)	
71	CBCI	38+51.79 20.27' LT	26.05	--	70 21.72	
72	CBCI	38+49.97 16.00' RT	26.12	--	70 20.30	

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

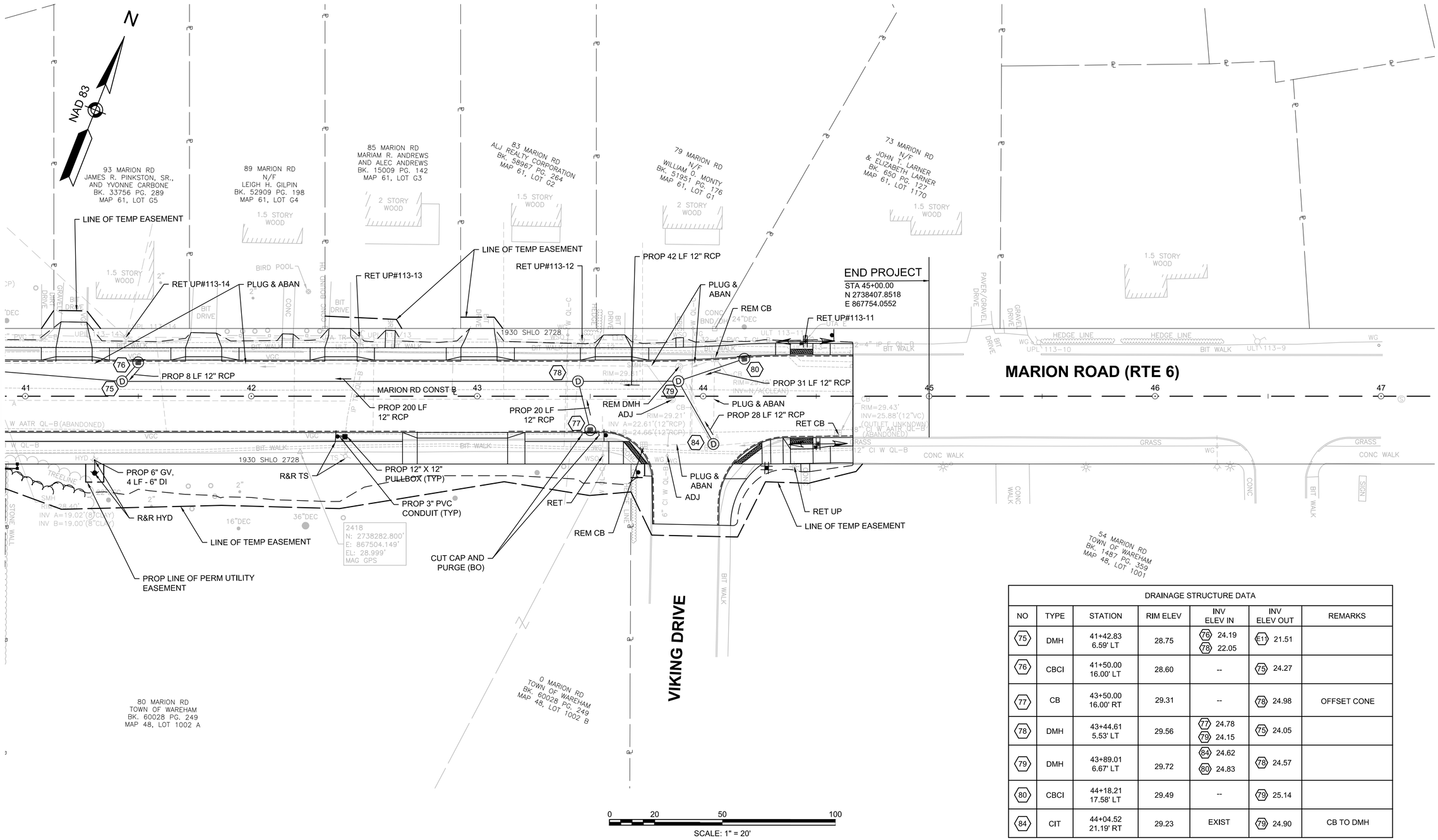
SEE BELOW

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	50	131
	PROJECT FILE NO.	610647	

DRAINAGE AND UTILITY PLANS
SHEET 10 OF 10

610647_HD12(DRAIN-UTILITY_10).DWG Plotted on 3-Mar-2026 8:33 AM



DRAINAGE STRUCTURE DATA						
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
75	DMH	41+42.83 6.59' LT	28.75	76 24.19 78 22.05	E1 21.51	
76	CBCI	41+50.00 16.00' LT	28.60	--	75 24.27	
77	CB	43+50.00 16.00' RT	29.31	--	78 24.98	OFFSET CONE
78	DMH	43+44.61 5.53' LT	29.56	77 24.78 79 24.15	75 24.05	
79	DMH	43+89.01 6.67' LT	29.72	84 24.62 80 24.83	78 24.57	
80	CBCI	44+18.21 17.58' LT	29.49	--	79 25.14	
84	CIT	44+04.52 21.19' RT	29.23	EXIST	79 24.90	CB TO DMH

WAREHAM
MARION ROAD (ROUTE 6)

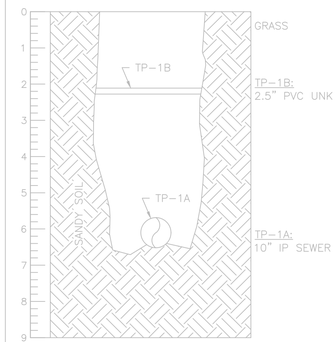
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	51	131
	PROJECT FILE NO. 610647		

UTILITY ENGINEERING VACUUM EXCAVATION LOGS
SHEET 1 OF 3

610647_HD12(DRAIN-UTILITY_11).DWG Plotted on 3-Mar-2026 8:33 AM

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

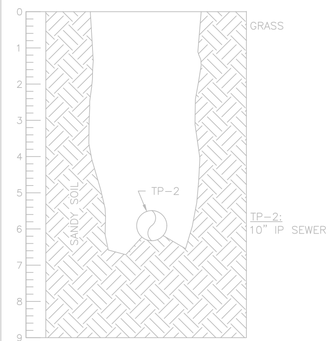
	TP-1A	TP-1B
NORTHING:	2735368.0'	2735367.9'
EASTING:	864949.4'	864949.4'
GROUND EL.	16.5'	16.5'
MEASURE DOWN TOP:	5.7'	2.1'
MEASURE DOWN BTM:	N/A'	N/A
UTILITY EL. TOP:	10.8'	14.4'
UTILITY EL. BTM:	N/A	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-2

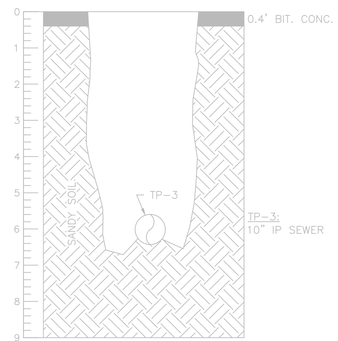
NORTHING:	2735801.5'
EASTING:	865168.3'
GROUND EL.	16.6'
MEASURE DOWN TOP:	5.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.0'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-3

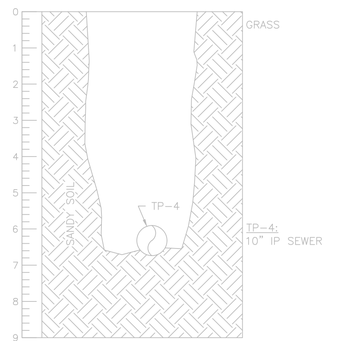
NORTHING:	2736084.3'
EASTING:	865316.1'
GROUND EL.	17.4'
MEASURE DOWN TOP:	5.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.8
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-4

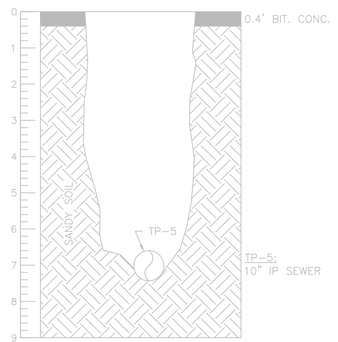
NORTHING:	2736217.6'
EASTING:	865391.7'
GROUND EL.	17.5'
MEASURE DOWN TOP:	5.9'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.6'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-5

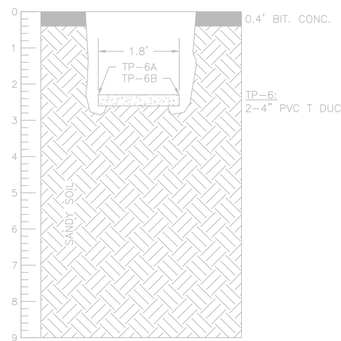
NORTHING:	2736474.2'
EASTING:	865651.6'
GROUND EL.	18.8'
MEASURE DOWN TOP:	6.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	12.2'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

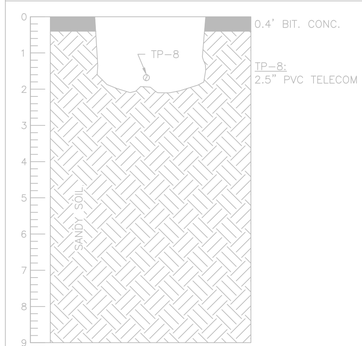
	TP-6A	TP-6B
NORTHING:	2736467.1'	2736468.3'
EASTING:	865642.2'	865642.2'
GROUND EL.	18.6'	18.6'
MEASURE DOWN TOP:	2.3'	2.3'
MEASURE DOWN BTM:	2.6'	
UTILITY EL. TOP:	16.3'	16.3'
UTILITY EL. BTM:	16.0'	16.3'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-8

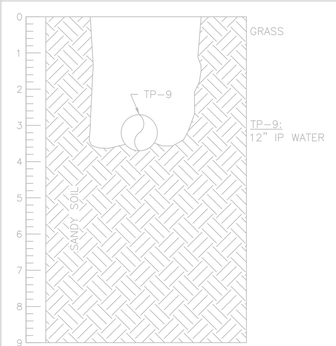
NORTHING:	2737530.1'
EASTING:	866154.9'
GROUND EL.	14.6'
MEASURE DOWN TOP:	1.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	13.0'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-9

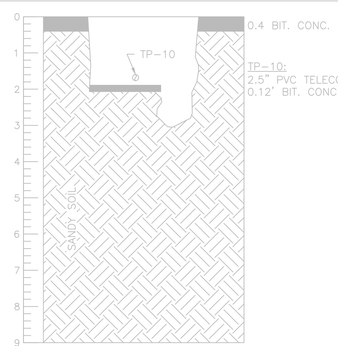
NORTHING:	2737528.9'
EASTING:	866156.0'
GROUND EL.	14.6'
MEASURE DOWN TOP:	2.7'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.9'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-10

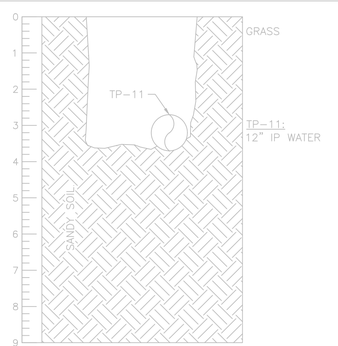
NORTHING:	2737590.7'
EASTING:	866218.5'
GROUND EL.	13.4'
MEASURE DOWN TOP:	1.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.8'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-11

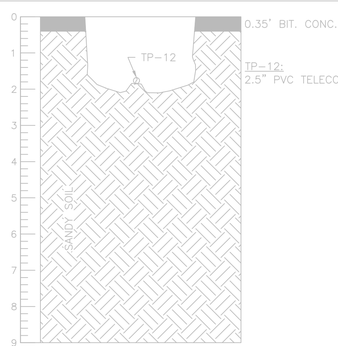
NORTHING:	2737589.0'
EASTING:	866219.9'
GROUND EL.	13.4'
MEASURE DOWN TOP:	2.9'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	10.5'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-12

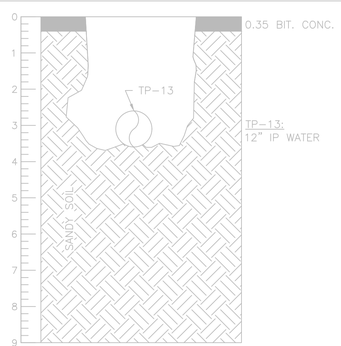
NORTHING:	2737628.7'
EASTING:	866259.9'
GROUND EL.	13.4'
MEASURE DOWN TOP:	1.8'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	11.6'
UTILITY EL. BTM:	N/A'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-13

NORTHING:	2737627.5'
EASTING:	866261.1'
GROUND EL.	13.4'
MEASURE DOWN TOP:	2.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	10.8'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

WAREHAM
MARION ROAD (ROUTE 6)

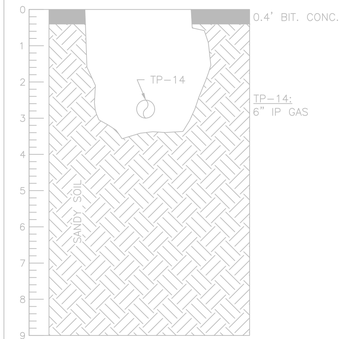
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	52	131
	PROJECT FILE NO. 610647		

UTILITY ENGINEERING VACUUM EXCAVATION LOGS
SHEET 2 OF 3

610647_HD12(DRAIN-UTILITY_11).DWG Plotted on 3-Mar-2026 8:33 AM

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-14

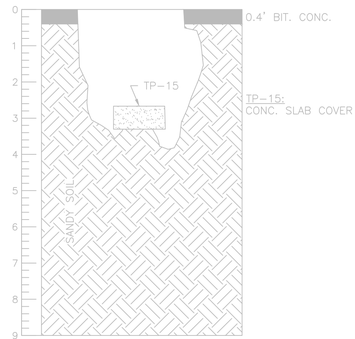
NORTHING:	2738410.6'
EASTING:	867707.9'
GROUND EL.	30.2'
MEASURE DOWN TOP:	2.5'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	27.7'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-15

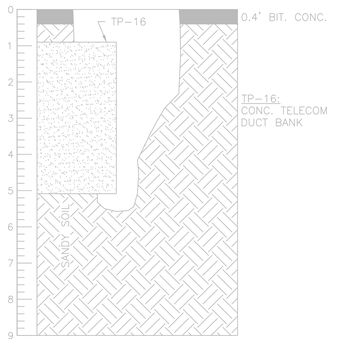
NORTHING:	2738413.3'
EASTING:	867706.9'
GROUND EL.	30.3'
MEASURE DOWN TOP:	2.7'
MEASURE DOWN BTM:	3.3'
UTILITY EL. TOP:	27.6'
UTILITY EL. BTM:	27.0'



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-16

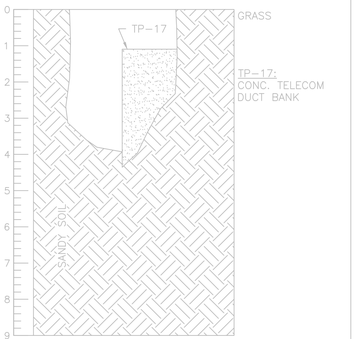
NORTHING:	2738194.8'
EASTING:	867139.5'
GROUND EL.	26.5'
MEASURE DOWN TOP:	0.9'
MEASURE DOWN BTM:	5.1'
UTILITY EL. TOP:	25.6'
UTILITY EL. BTM:	21.4'



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-17

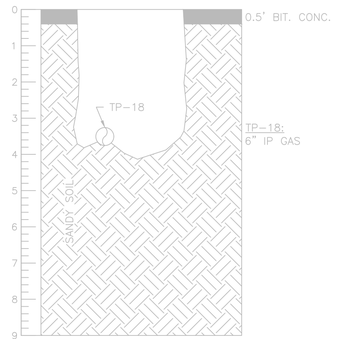
NORTHING:	2738197.1'
EASTING:	867138.6'
GROUND EL.	26.5'
MEASURE DOWN TOP:	1.1'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	25.4'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-18

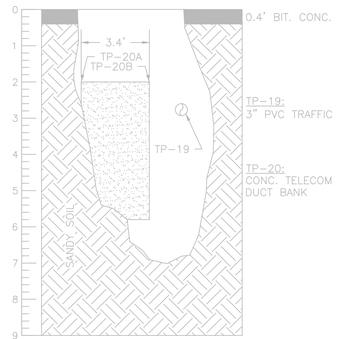
NORTHING:	2738191.4'
EASTING:	867140.6'
GROUND EL.	26.0'
MEASURE DOWN TOP:	3.3'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	22.8'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-19 TP-20A TP-20B

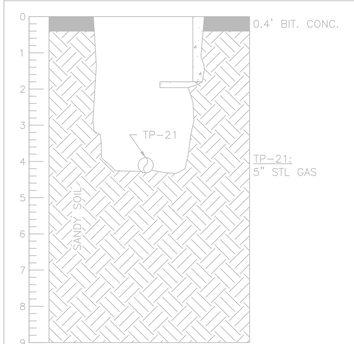
NORTHING:	2738051.6'	2738053.4'	2738056.7'
EASTING:	866757.3'	866756.5'	866757.4'
GROUND EL.	23.4'	23.4'	23.4'
MEASURE DOWN TOP:	2.6'	2.0'	2.0'
MEASURE DOWN BTM:	N/A	5.8'	5.8'
UTILITY EL. TOP:	20.7'	21.4'	21.4'
UTILITY EL. BTM:	N/A	17.6'	17.6'



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-21

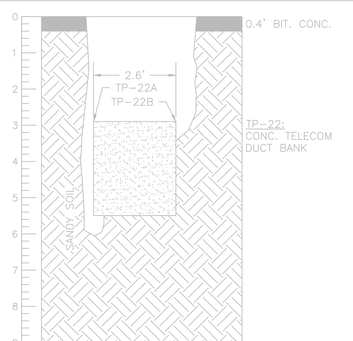
NORTHING:	2737959.3'
EASTING:	866572.1'
GROUND EL.	20.8'
MEASURE DOWN TOP:	3.9'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	16.9'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-22A TP-22B

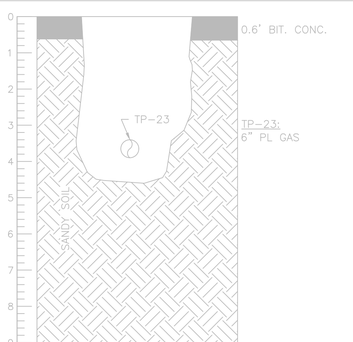
NORTHING:	2738404.7'	2738407.1'
EASTING:	867710.2'	867711.0'
GROUND EL.	29.8'	29.8'
MEASURE DOWN TOP:	2.0'	2.0'
MEASURE DOWN BTM:	5.5'	5.5'
UTILITY EL. TOP:	27.8'	27.8'
UTILITY EL. BTM:	24.3'	24.3'



(NTS) SECTION FACING EAST

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-23

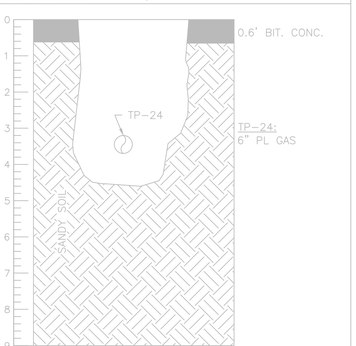
NORTHING:	2738176.9'
EASTING:	867146.1'
GROUND EL.	26.2'
MEASURE DOWN TOP:	3.4'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	22.8'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-24

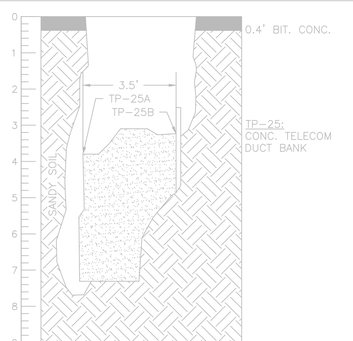
NORTHING:	2737124.3'
EASTING:	865794.4'
GROUND EL.	20.0'
MEASURE DOWN TOP:	3.2'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	16.8'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-25A TP-25B

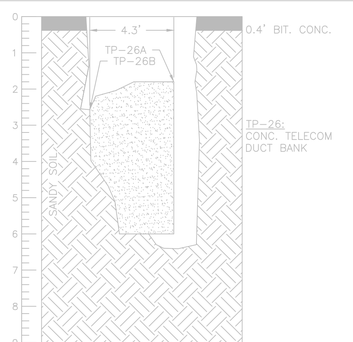
NORTHING:	2737036.7'	2737038.9'
EASTING:	865726.6'	865729.9'
GROUND EL.	20.2'	20.2'
MEASURE DOWN TOP:	3.8'	3.1'
MEASURE DOWN BTM:	7.3'	7.3'
UTILITY EL. TOP:	16.4'	17.1'
UTILITY EL. BTM:	12.9'	12.9'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-26A TP-26B

NORTHING:	2736898.2'	2736895.2'
EASTING:	865661.0'	865657.0'
GROUND EL.	20.7'	20.7'
MEASURE DOWN TOP:	1.8'	2.2'
MEASURE DOWN BTM:	6.0'	6.0'
UTILITY EL. TOP:	18.9'	18.5'
UTILITY EL. BTM:	14.7'	14.7'



(NTS) SECTION FACING NORTH

WAREHAM
MARION ROAD (ROUTE 6)

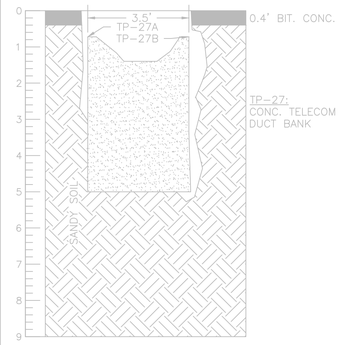
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	53	131
	PROJECT FILE NO. 610647		

UTILITY ENGINEERING VACUUM EXCAVATION LOGS
SHEET 3 OF 3

610647_HD12(DRAIN-UTILITY_11).DWG Plotted on 3-Mar-2026 8:34 AM

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

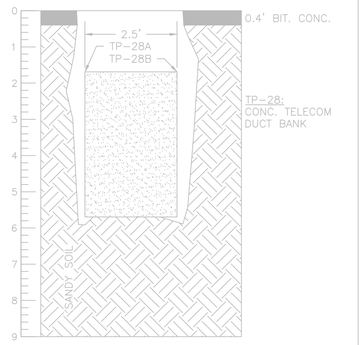
	TP-27A	TP-27B
NORTHING:	2736821.3'	2736820.3'
EASTING:	865622.8'	865623.4'
GROUND EL.	19.8'	19.8'
MEASURE DOWN TOP:	0.7'	0.7'
MEASURE DOWN BTM:	5.0'	5.0'
UTILITY EL. TOP:	19.1'	19.1'
UTILITY EL. BTM:	14.8'	14.8'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

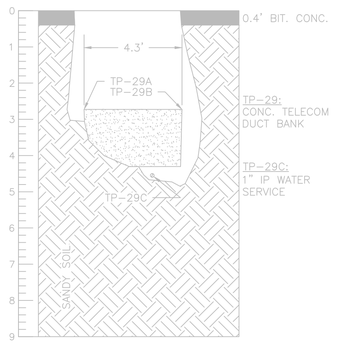
	TP-28A	TP-28B
NORTHING:	2736789.9'	2736790.1
EASTING:	865607.6'	865605.3'
GROUND EL.	20.3'	20.3'
MEASURE DOWN TOP:	1.7'	1.7'
MEASURE DOWN BTM:	5.7'	5.7'
UTILITY EL. TOP:	18.6'	18.6'
UTILITY EL. BTM:	14.6'	14.6'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

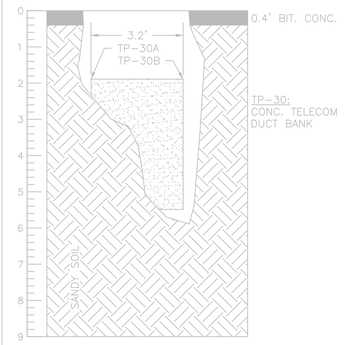
	TP-29A	TP-29B	TP-29C
NORTHING:	2736677.1'	2736674.5'	2736677.2'
EASTING:	865552.5'	865548.7'	865551.6'
GROUND EL.	20.1'	20.1'	20.1'
MEASURE DOWN TOP:	2.8'	2.8'	4.5'
MEASURE DOWN BTM:	4.3'	4.3'	N/A
UTILITY EL. TOP:	17.3'	17.3'	15.6'
UTILITY EL. BTM:	15.8'	15.8'	N/A



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

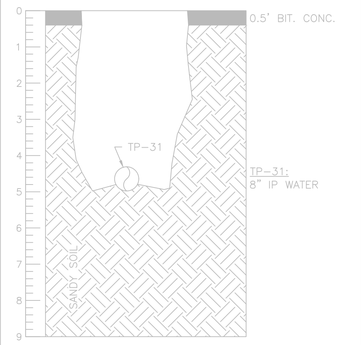
	TP-30A	TP-30B
NORTHING:	2736549.9'	2736555.2'
EASTING:	865488.0'	865485.1
GROUND EL.	20.0'	20.0'
MEASURE DOWN TOP:	1.9'	1.9'
MEASURE DOWN BTM:	5.3'	5.3'
UTILITY EL. TOP:	18.1'	18.1'
UTILITY EL. BTM:	14.7'	14.7'



(NTS) SECTION FACING NORTH

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG

	TP-31
NORTHING:	2736489.8'
EASTING:	865664.8'
GROUND EL.	19.0'
MEASURE DOWN TOP:	4.3'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	14.7'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING NORTH

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	54	131
	PROJECT FILE NO.	610647	

SIGNING AND PAVEMENT MARKING PLANS
SHEET 1 OF 10

610647_HD09(PAVEMENT-MARKING_01).DWG Plotted on 3-Mar-2026 8:34 AM

NAD 83 N

BEGIN PROJECT
STA 3+00
N 2735521.7414
E 864980.5757

1955 STATE HIGHWAY ALTERATION 4355
1930 STATE HIGHWAY ALTERATION 2728
1930 STATE HIGHWAY ALTERATION 2728
1955 STATE HIGHWAY ALTERATION 4355
1930 STATE HIGHWAY ALTERATION 2728

MARION ROAD (RTE 6)

CROMESETT ROAD

0+00 1 2 3 N27°44'29"E 1168.91' 4 MARION RD CONST B

CONTINUED ON SHEET NO. 55

BILLBOARD
BIT PARKING LOT
YING DYNASTY
BIT PARKING LOT
CONC WALL
17"DEC
4"CON
6"CON
6"CON
4"CON
10"CON
30"DEC
10"CON
28"CON
28"CON
TREE LINE
BRICK WALL
HEDGE LINE
CONC
BRICK WALL
1.5 STORY WOOD
BIT DRIVE
12"CON
1 STORY WOOD
1 STORY WOOD
20"CON
HEDGE LINE
GG
CONC
BIT DRIVE
BIT WALK
GRASS
VGC
SWL
BWL
DYL
MB
PEDESTRIAN CROSSING
CROSSWALK
PEDESTRIAN CROSSING
PACKAGE STORE
CONC WALK
SULLIVAN PLAZA
VGC
STONE WALL WITH SIGN
LANDSCAPE
PAVERS
BIT DRIVE
LANDSCAPE
CONC WALK
W9-1R
STOP LINE
GRASS
8" DI SEWER
GRAVEL DRIVE
BRICK PAVERS
14"DEC
GRAVEL
1.5 STORY WOOD
SPEED LIMIT 45
PEDESTRIAN CROSSING AHEAD
CROMESETT
R4-7
CONC FOUNDATION WITH SIGN
VACUUM/AIR
SAM'S GAS CAR WASH
STOP
STOP LINE
8" DI SEWER
18"DEC
LANDSCAPE
BIT PARKING LOT
4"DEC
11"DEC
1964 TOWN LAYOUT
1964 TOWN LAYOUT
13"DEC
11"DEC
11"DEC
11"DEC
21"DEC
BIT DRIVE
EP
1 STORY WOOD
1 STORY WOOD GARAGE
BIT PARKING LOT
CONC
GP
BIT
WALK
SPEED LIMIT 45
AHEAD

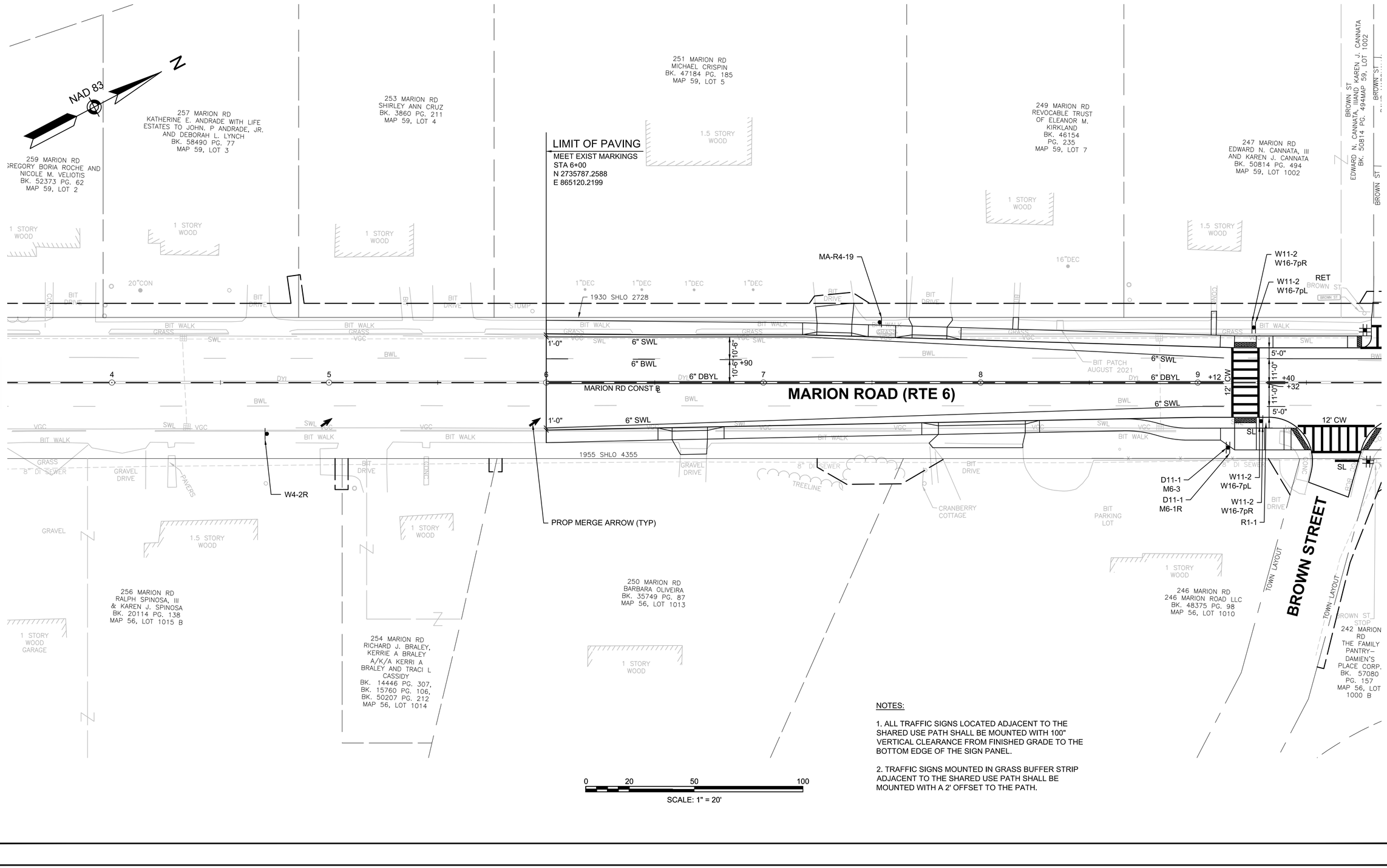
0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	55	131
	PROJECT FILE NO.	610647	

SIGNING AND PAVEMENT MARKING PLANS
SHEET 2 OF 10

610647_HD09(PAVEMENT-MARKING_02).DWG Plotted on 12-Mar-2026 10:54 AM



CONTINUED ON SHEET NO. 54

CONTINUED ON SHEET NO. 56

NOTES:

1. ALL TRAFFIC SIGNS LOCATED ADJACENT TO THE SHARED USE PATH SHALL BE MOUNTED WITH 100" VERTICAL CLEARANCE FROM FINISHED GRADE TO THE BOTTOM EDGE OF THE SIGN PANEL.

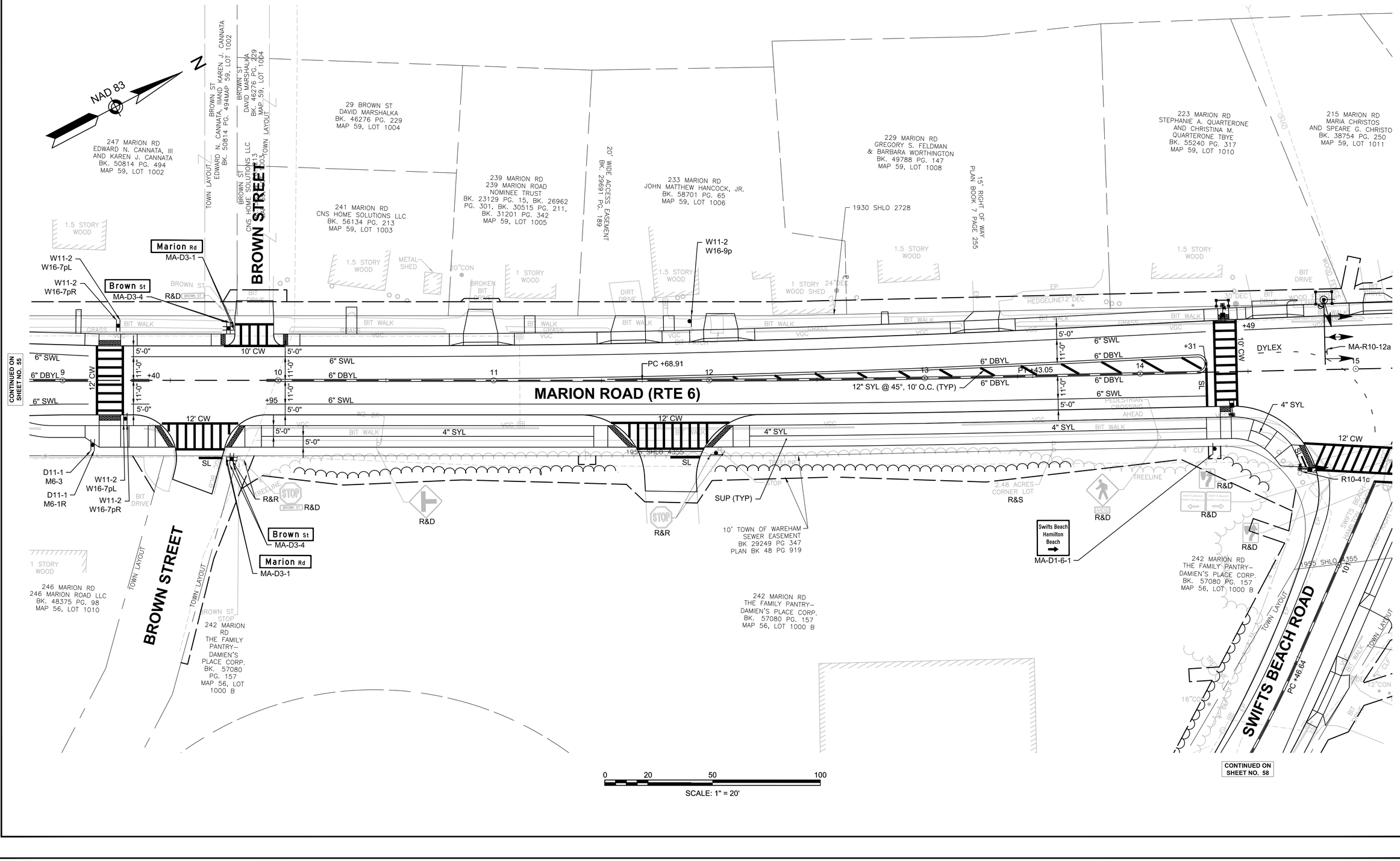
2. TRAFFIC SIGNS MOUNTED IN GRASS BUFFER STRIP ADJACENT TO THE SHARED USE PATH SHALL BE MOUNTED WITH A 2' OFFSET TO THE PATH.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	56	131
PROJECT FILE NO.	610647		

SIGNING AND PAVEMENT MARKING PLANS
SHEET 3 OF 10

610647_HD09(PAVEMENT-MARKING_03).DWG Plotted on 12-Mar-2026 10:55 AM



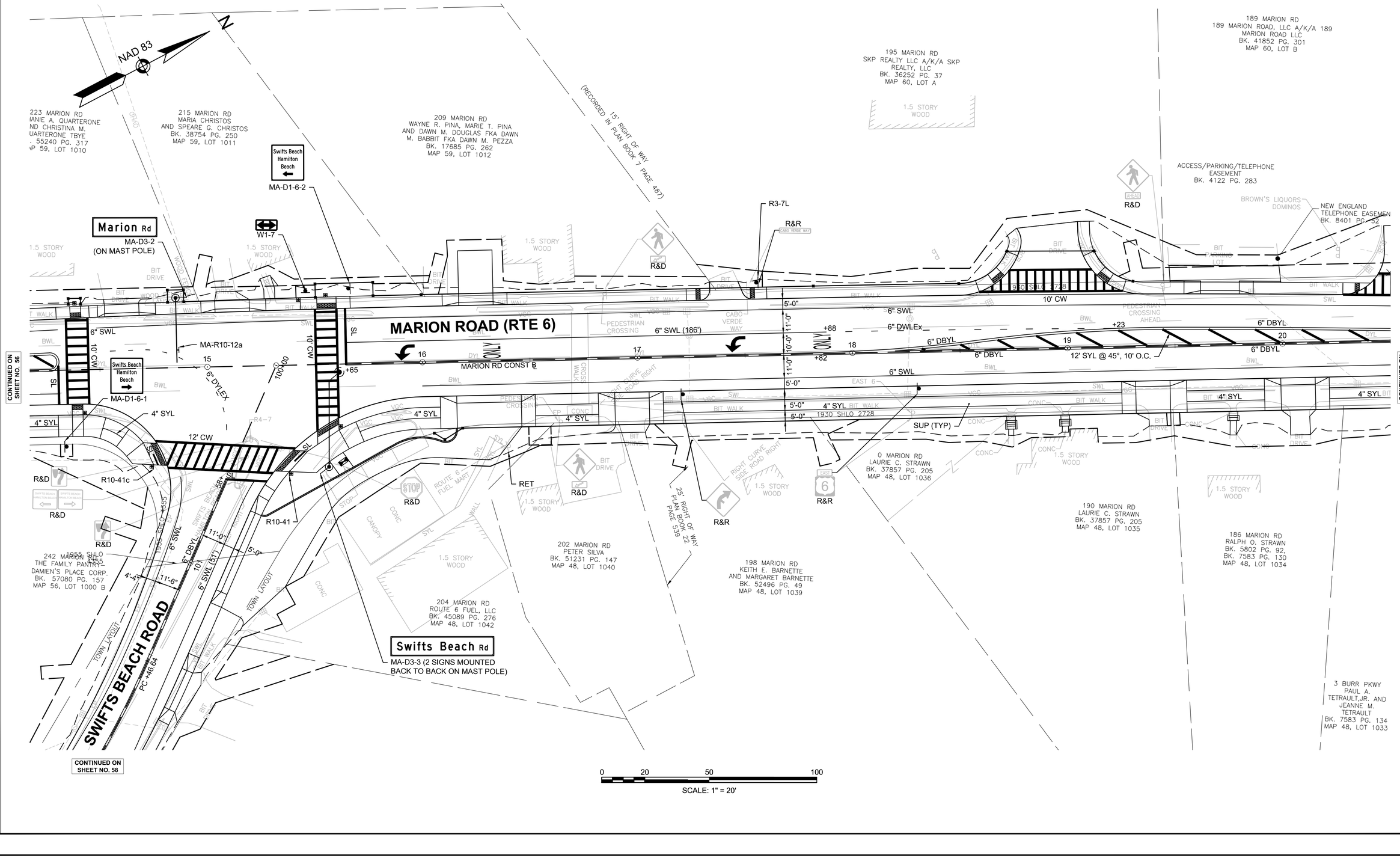
CONTINUED ON SHEET NO. 58

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	57	131
	PROJECT FILE NO. 610647		

SIGNING AND PAVEMENT MARKING PLANS
SHEET 4 OF 10

Plotted on 12-Mar-2026 3:27 PM
610647_HD09(PAVEMENT-MARKING_04).DWG



WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	58	131
	PROJECT FILE NO. 610647		

SIGNING AND PAVEMENT MARKING PLANS
SHEET 5 OF 10

610647_HD09(PAVEMENT-MARKING_05).DWG Plotted on 12-Mar-2026 3:28 PM

CONTINUED ON SHEET NO. 56

NAD 83

N

LIMIT OF WORK
STA 104+00.00
N 2736286.9231
E 865776.5241

LIMIT OF PAVING
MEET EXISTING MARKINGS
STA 102+26.59

242 MARION RD
THE FAMILY PANTRY–
DAMIEN'S PLACE CORP.
BK. 57080 PG. 157
MAP 56, LOT 1000 B

SWIFTS BEACH RD CONST B
DYL
104
103
STOP AHEAD
EP
VGC
BIT WALK
SWL
2'-0"
6" SWL
12'-9"
14'-3"
PT +41.87
PC +18.46
PT +00.37
102
+85
PC +46.64
6" DBYL
SWIFTS BEACH ROAD
TOWN LAYOUT
BIT DRIVE
1 STORY WOOD TRAILER
SWIFTS BEACH MANUFACTURED HOME COMMUNITY
16 SWIFTS BEACH RD
N/F
DANIEL J. MCASSEY
BK. 10159 PG. 339
MAP 48, LOT 1047
8 SWIFTS BEACH RD
SWIFT'S BEACH MANUFACTURED
HOME COMMUNITY, INC.
BK. 21897 PG. 118
MAP 48, LOT 1045
242 MARION RD
THE FAMILY PANTRY–
DAMIEN'S PLACE CORP.
BK. 57080 PG. 157
MAP 56, LOT 1000 B
200 ACRES
CORNER LOT
1955 SHLO 4355
R&D
Swifts Beach
Hamilton
Beach
MA-D1-6-1
4" SYL
5'-0"
11'-0"
5'-05
6" SWL
6" DBYL
SL
10' CW
+49
R10-41c
4'-4"
11'-6"
+58
SWIFTS BEACH
HAMILTON BEACH
101
14'-3"
5'-0"
R10-41
Swifts Beach Rd
MA-D3-3 (2 SIGNS MOUNTED
BACK TO BACK ON MAST POLE)
ROUTE 6
FUEL MART
WALL
1.5 STORY
WOOD
204 MARION RD
ROUTE 6 FUEL, LLC
BK. 55089 PG. 276
MAP 48, LOT 1042
202 MARION RD
PETER SILVA RD
BK. 51231 PG. 147
MAP 48, LOT 1040
SUP (TYP)
1930 SHLO 2728
Marion Rd
MA-D3-2
(ON MAST POLE)
MARION ROAD (RTE 6)
6" DYLEX
15
MA-R10-12a
12' CW
W1-7
100+00
MA-D1-6-2
16
MARION RD CONST B
17
4" SYL
6" SWL
6" DBYL
R&R
223 MARION RD
PRAIRIE A. QUARTERONE
AND CHRISTINA M.
QUARTERONE TBTE
BK. 55240 PG. 317
MAP 59, LOT 1010
215 MARION RD
MARIA CHRISTOS
AND SPIRE G. CHRISTOS
BK. 35754 PG. 250
MAP 59, LOT 1011
209 MARION RD
WAYNE R. PINA, MARIE J. PINA
AND DAWN M. DOUGLAS F/K/A DAWN
M. BABBIT F/K/A DAWN M. PEZZA
BK. 7585 PG. 262
MAP 59, LOT 1012
(RECORDED IN PLAN BOOK 7 PAGE 487)
1930 SHLO 2728
R&D
R&R
UNDERGROUND ELEC
OHD
BIT DRIVE
CONC
MB

0 20 50 100
SCALE: 1" = 20'

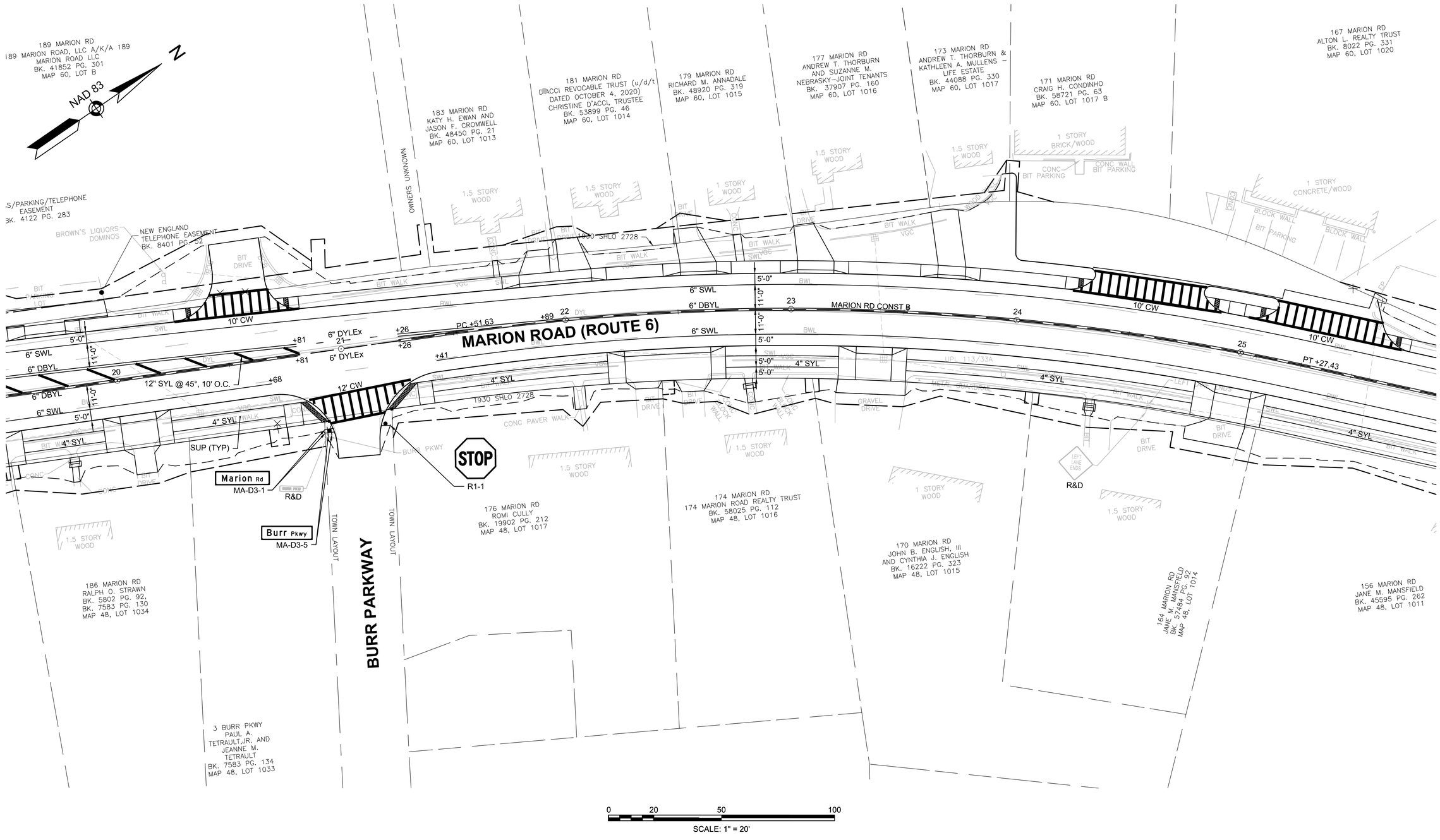
CONTINUED ON SHEET NO. 57

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	59	131
	PROJECT FILE NO. 610647		

SIGNING AND PAVEMENT MARKING PLANS
SHEET 6 OF 10

610647_HD09(PAVEMENT-MARKING_06).DWG Plotted on 3-Mar-2026 8:35 AM



CONTINUED ON SHEET NO. 57

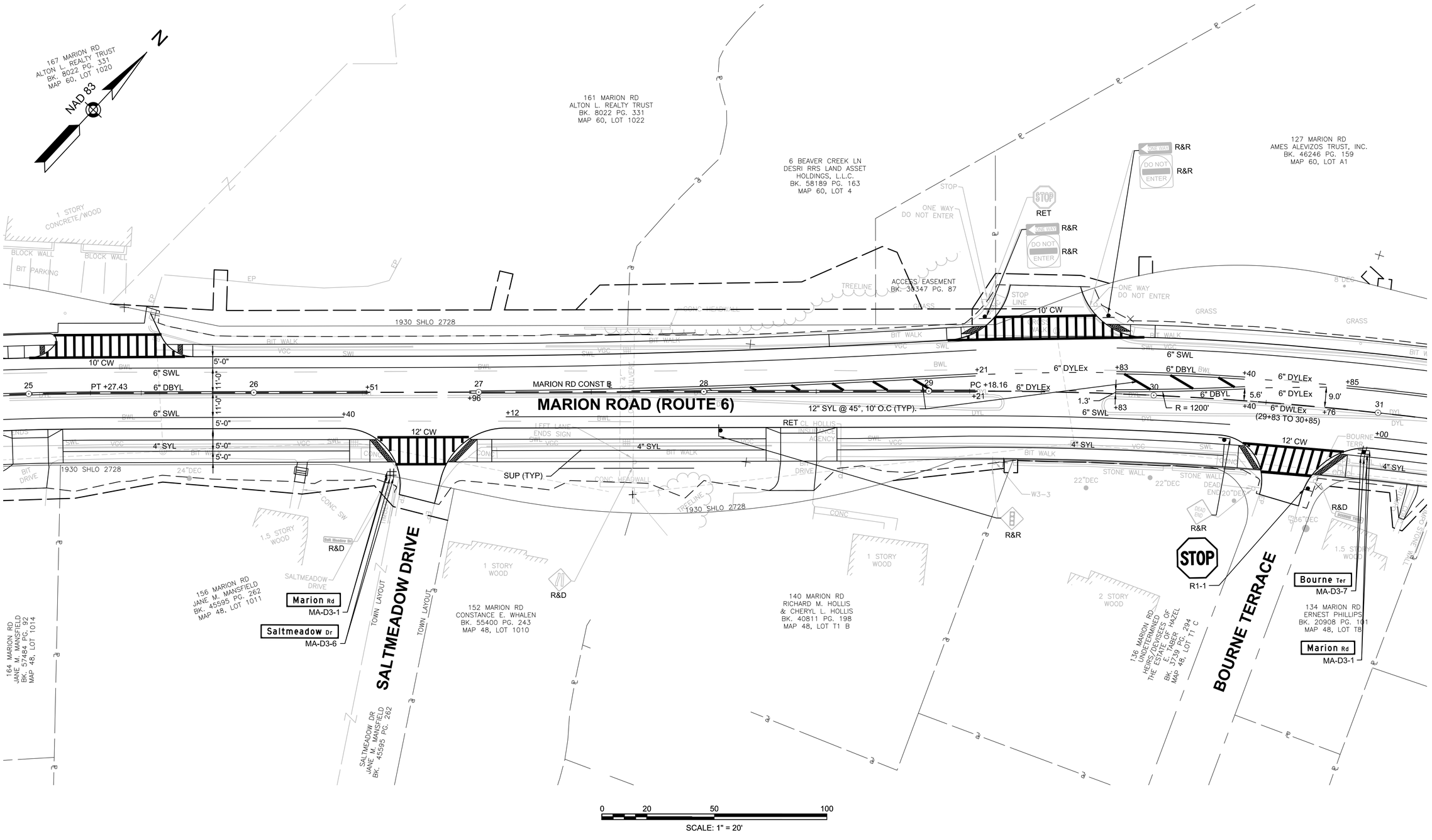
CONTINUED ON SHEET NO. 60

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	60	131
	PROJECT FILE NO.	610647	

SIGNING AND PAVEMENT MARKING PLANS
SHEET 7 OF 10

610647_HD09(PAVEMENT-MARKING_07).DWG Plotted on 3-Mar-2026 8:36 AM

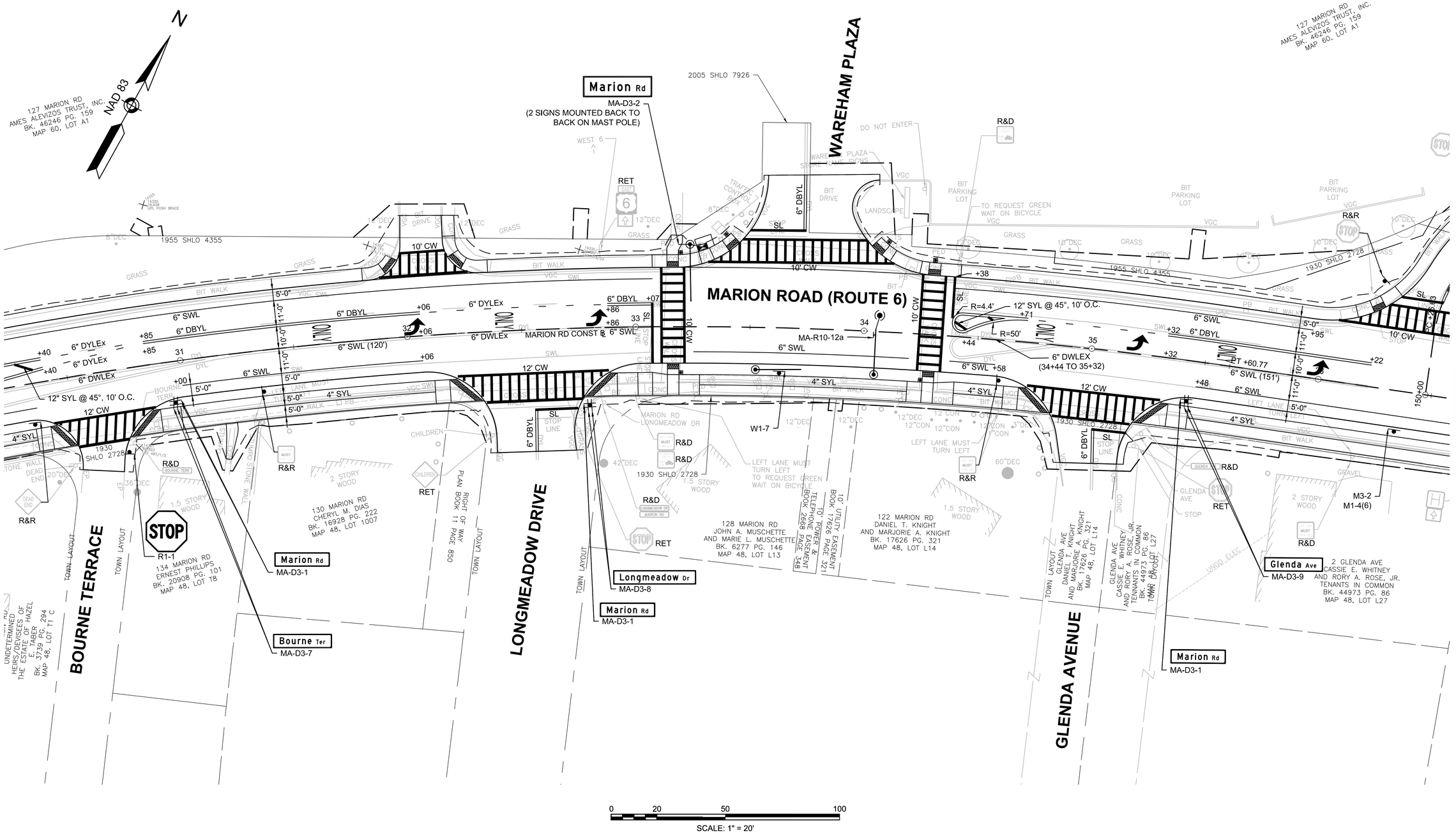


WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	61	131
	PROJECT FILE NO.	610647	

SIGNING AND PAVEMENT MARKING PLANS
SHEET 8 OF 10

610647_HD09(PAVEMENT-MARKING_08).DWG Plotted on 12-Mar-2026 10:56 AM



WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	62	131
	PROJECT FILE NO.	610647	

SIGNING AND PAVEMENT MARKING PLANS
SHEET 9 OF 10

610647_HD09(PAVEMENT-MARKING_09).DWG Plotted on 3-Mar-2026 8:36 AM

N

NAD 83

LIMIT OF WORK
MEET EXIST MARKINGS
STA 150+96.50
N2738193.5919
E866959.9166

127 MARION RD
AMES ALEVIZOS TRUST, INC.
BK. 46246 PG. 159
MAP 60, LOT A1

GIBBS AVENUE
GIBBS AVE CONST ℄
1910 COUNTY LAYOUT
PT +91.32
Gibbs Ave
MA-D3-10
Marion Rd
MA-D3-1
R&R
R&D
RET
6" DBYL
1930 SHLO 2728
SL
PC +42.63
10' CW
5'-0"
6" SWL
+95
+97
+81
R=5'
12" SYL @ 45°, 10' O.C. (TYP)
PC +74.32
37
38
PRC +82.10
39
40
PT +55.79
+56
6" DBYL
11'-0"
4" SYL
MARION ROAD (ROUTE 6)
MARION RD CONST ℄
150+00
+22
PT +60.77
CONTINUED ON SHEET NO. 61
CONTINUED ON SHEET NO. 63
SCHOOL ZONE AHEAD
THIS IS A DARE DRUG
FREE SCHOOL ZONE
SPEED LIMIT 45
SPEED LIMIT 35
R2-1(35)
M3-2
M1-4(6)
W1-7
36+47.36 MARION ROAD CONSTRUCTION BASELINE=
150+00.00 GIBBS AVENUE CONSTRUCTION BASELINE

114 GIBBS AVE
RONALD N. F. MOREAU
& YVETTE H. MOREAU
BK. 5425 PG. 436
MAP 61, LOT G12

120 GIBBS AVE
JOHN A. PETTERSEN
BK. 16391 PG. 127
MAP 61, LOT G9

97 MARION RD
JEREMY IRISH
AND LISA IRISH
BK. 27810 PG. 20
MAP 61, LOT G6

93 MARION RD
JAMES R. PINKSTON, SR.,
AND YVONNE CARBONE
BK. 33756 PG. 289
MAP 61, LOT G5

2 GLENDA AVE
CASSIE E. WHITNEY
AND RORY A. ROSE, JR.
TENANTS IN COMMON
BK. 44973 PG. 86
MAP 48, LOT L27

0 MARION RD
TOWN OF WAREHAM
BK. 2373 PG. 210
MAP 48, LOT 1005

94 MARION RD
TOWN OF WAREHAM
BK. 4786 PG. 97
MAP 48, LOT 1004

80 MARION RD
TOWN OF WAREHAM
BK. 60028 PG. 249
MAP 48, LOT 1002 A

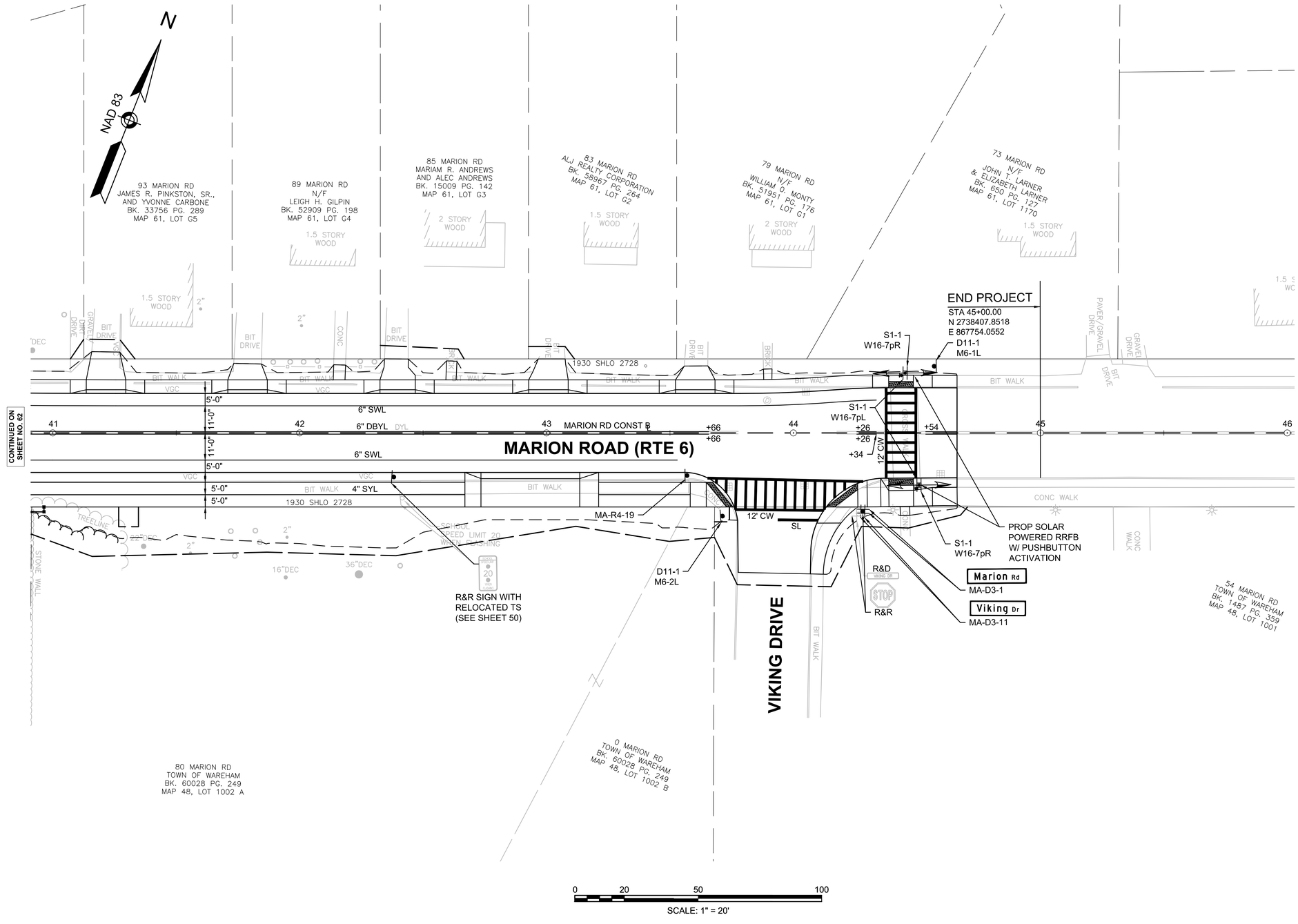
0 20 50 100
SCALE: 1" = 20'

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	63	131
	PROJECT FILE NO. 610647		

SIGNING AND PAVEMENT MARKING PLANS
SHEET 10 OF 10

610647_HD09(PAVEMENT-MARKING_10).DWG Plotted on 12-Mar-2026 10:57 AM



IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R1-1	30	30	STOP	SEE MUTCD			2	RED	WHITE	WHITE	P5-1(2)	6.25	12.50
R2-1 (35)	30	36	SPEED LIMIT 35	SEE MUTCD			1	WHITE	BLACK	BLACK	P5-1(1)	7.50	7.50
R3-7L	30	30	LEFT LANE MUST TURN LEFT	SEE MUTCD			1	WHITE	BLACK	BLACK	MOUNT W/ EXIST "CABO VERDE" STREET SIGN	6.25	6.25
MA-R4-19	30	30	4 FT MIN CLEARANCE TO PASS	SEE MASSDOT STANDARD			2	WHITE	BLACK	BLACK	P5-1(2)	6.25	12.50
MA-R10-12a	30	36	LEFT TURN YIELD ON FLASHING	SEE MASSDOT STANDARD			2	WHITE	BLACK	BLACK	MOUNT ON MASTARM (2)	7.50	15.00
R10-41	12	21	SIGNAL	SEE MUTCD			1	WHITE	BLACK	BLACK	MOUNT ON SIGNAL POST (1)	1.75	1.75
R10-41c	12	21	SIGNAL	SEE MUTCD			1	WHITE	BLACK	BLACK	MOUNT ON SIGNAL POST (1)	1.75	1.75
W1-7	48	24		SEE MUTCD			3	YELLOW	BLACK	BLACK	P5-1(3)	8.00	24.00
W4-2R	30	30		SEE MUTCD			1	YELLOW	BLACK	BLACK	P5-1(1)	6.25	6.25
W9-1R	30	30	RIGHT LANE ENDS	SEE MUTCD			1	YELLOW	BLACK	BLACK	P5-1(1)	6.25	6.25
W11-2	30	30		SEE MUTCD			5	FYG	BLACK	BLACK	P5-1(5)	6.25	31.25
W16-7pL	24	12		SEE MUTCD			4	FYG	BLACK	BLACK	MOUNT WITH W11-2 (2) S1-1 (2)	2.00	8.00
W16-7pR							4				MOUNT WITH W11-2 (2) S1-1 (2)		8.00
W16-9p	24	12	AHEAD	SEE MUTCD			1	FYG	BLACK	BLACK	MOUNT WITH W11-2 (1)	2.00	2.00
S1-1	30	30		SEE MUTCD			4	FYG	BLACK	BLACK	MOUNT WITH RRFB (4)	6.73	26.92
D11-1	24	18	BIKE ROUTE	SEE MUTCD			4	GREEN	WHITE	WHITE	P5-1(4)	3.00	12.00
M1-4(6)	24	24	6	SEE MUTCD			1	WHITE	BLACK	BLACK	P5-1(1)	4.00	4.00
M3-2	24	12	EAST	SEE MUTCD			1	WHITE	BLACK	BLACK	MOUNT WITH M1-4(6) (1)	2.00	2.00

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	64	131
PROJECT FILE NO.	610647		

SIGN SUMMARY SHEET

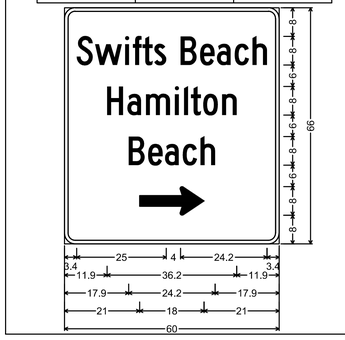
NOTES:

1. MA-D3-X (STREET NAME) SIGNS SHALL FOLLOW MASSDOT STANDARD FOR TEXT DIMENSIONS.
2. MA-D3-X (STREET NAME) SIGNS MOUNTED ON MAST ARM POLES SHALL BE A RUGGEDIZED BRACKET LONG ENOUGH TO ADEQUATELY SUPPORT THE SIGN PERPENDICULAR TO THE POLE. REFER TO DETAIL BELOW.

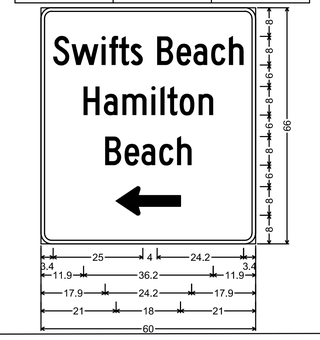
IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
M6-1R	12	9		SEE MUTCD			1	GREEN	WHITE	WHITE	MOUNT WITH D11-1 (1)	0.75	0.75
M6-1L	12	9		SEE MUTCD			1	GREEN	WHITE	WHITE	MOUNT WITH D11-1 (1)	0.75	0.75
M6-2L	12	9		SEE MUTCD			1	GREEN	WHITE	WHITE	MOUNT WITH D11-1 (1)	0.75	0.75
M6-3	12	9		SEE MUTCD			1	GREEN	WHITE	WHITE	MOUNT WITH D11-1 (1)	0.75	0.75
MA-D3-1 (POS)	48	12	Marion Rd	6"D / 4"D	3" 3"		17	GREEN	WHITE	WHITE	MOUNT ON P5-1 (9)	PAID PER EACH	PAID PER EACH
MA-D3-2 (POS)	60	18		8"D / 5.33"D	5" 5"		4				MOUNT ON MAST POLE (2)		
MA-D3-3 (POS)	96	18	Swifts Beach Rd	8"D / 5.33"D	5" 5"		2	GREEN	WHITE	WHITE	MOUNT ON MAST POLE (1)	PAID PER EACH	PAID PER EACH
MA-D3-4 (POS)	42	12	Brown St	6"D / 4"D	3" 3"		4	GREEN	WHITE	WHITE	MOUNT ON P5-1 (2)	PAID PER EACH	PAID PER EACH
MA-D3-5 (POS)	45	12	Burr Pkwy	6"D / 4"D	2.75" 3.25"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-6 (POS)	69	12	Saltmeadow Dr	6"D / 4"D	3" 3"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-7 (POS)	51	12	Bourne Ter	6"D / 4"D	3" 3"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-8 (POS)	72	12	Longmeadow Dr	6"D / 4"D	2.75" 3.25"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-9 (POS)	51	12	Glenda Ave	6"D / 4"D	3" 3"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-10 (POS)	45	12	Gibbs Ave	6"D / 4"D	3" 3"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH
MA-D3-11 (POS)	45	12	Viking Dr	6"D / 4"D	2.75" 3.25"		2	GREEN	WHITE	WHITE	MOUNT ON P5-1 (1)	PAID PER EACH	PAID PER EACH

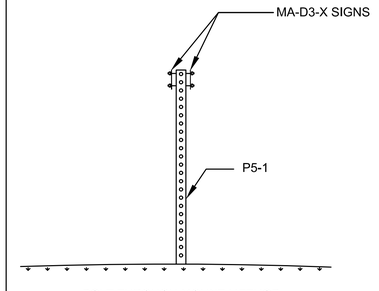
TOTAL = 190.92 SF

MA-D1-6-1		
5.0'	5.5'	27.50 SF
SIGNS REQUIRED		1
TOTAL AREA		27.50 SF
BACKGROUND	LEGEND	BORDER
GREEN REFL.	SILVER WHITE	SILVER WHITE



MA-D1-6-2		
5.0'	5.5'	27.50 SF
SIGNS REQUIRED		1
TOTAL AREA		27.50 SF
BACKGROUND	LEGEND	BORDER
GREEN REFL.	SILVER WHITE	SILVER WHITE





BOLT THROUGH MOUNT METHOD
N.T.S.

610647_HD09(SIGN-SUMMARY).DWG Plotted on 12-Mar-2026 3:28 PM

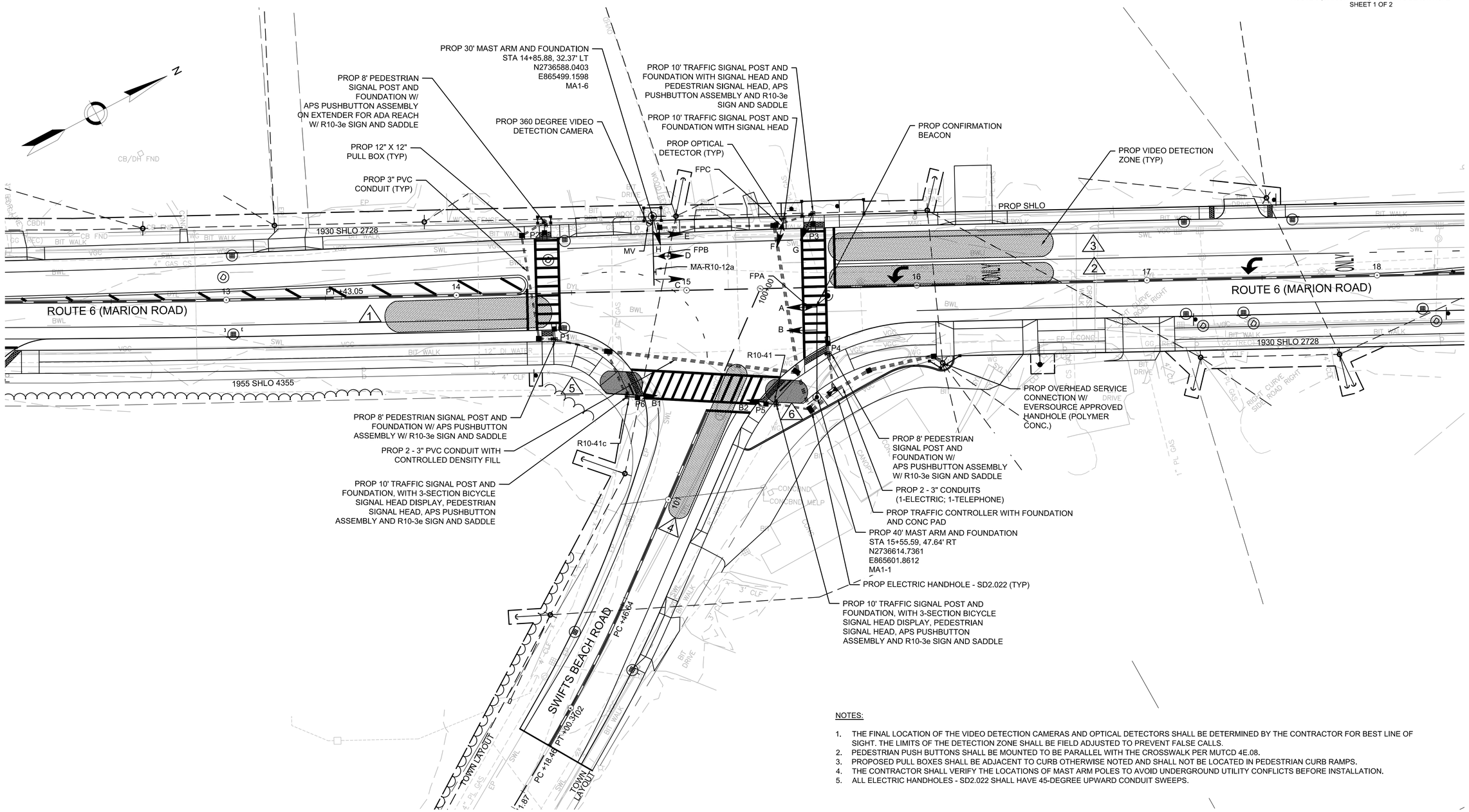
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	65	131
	PROJECT FILE NO. 610647		

TRAFFIC SIGNAL PLAN

LOCATION 1
ROUTE 6 (MARION ROAD) AT SWIFTS BEACH ROAD
SHEET 1 OF 2

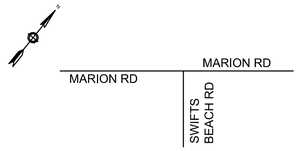
610647_HD10(SIGNAL_01).DWG Plotted on 12-Mar-2026 3:29 PM



NOTES:

1. THE FINAL LOCATION OF THE VIDEO DETECTION CAMERAS AND OPTICAL DETECTORS SHALL BE DETERMINED BY THE CONTRACTOR FOR BEST LINE OF SIGHT. THE LIMITS OF THE DETECTION ZONE SHALL BE FIELD ADJUSTED TO PREVENT FALSE CALLS.
2. PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED TO BE PARALLEL WITH THE CROSSWALK PER MUTCD 4E.08.
3. PROPOSED PULL BOXES SHALL BE ADJACENT TO CURB OTHERWISE NOTED AND SHALL NOT BE LOCATED IN PEDESTRIAN CURB RAMPS.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF MAST ARM POLES TO AVOID UNDERGROUND UTILITY CONFLICTS BEFORE INSTALLATION.
5. ALL ELECTRIC HANDHOLES - SD2.022 SHALL HAVE 45-DEGREE UPWARD CONDUIT SWEEPS.

SIGNAL PHASING AND TIMING CHART - FULLY ACTUATED



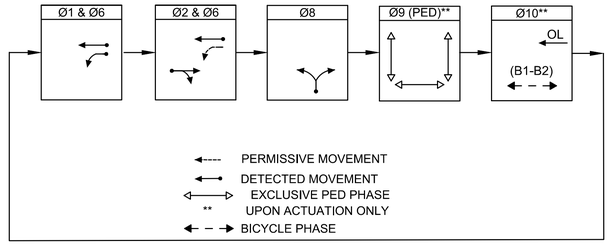
																		FIRE PREEMPTION									EMERGENCY
			Ø1			Ø2			Ø6			Ø8			Ø9			Ø10			PRE-EMPT "FPA"			PRE-EMPT "FPB"			PRE-EMPT "FPC"			FLASH
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	OPER.
MARION RD	EB	A,B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
MARION RD	WB	D,E	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	R	R	R	FY
MARION RD	WB-LT	C	GL	SYL	RL	RL	RL	RL	FYL	SYL	RL	RL	RL	RL	RL	RL	RL	R	R	R	RL	RL	RL	GL	SYL	RL	RL	RL	RL	FRL
SWIFTS BEACH RD	NB	F,G,H	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
BIKES	EB-WB	B1, B2	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	FR
PEDESTRIAN	ALL	P1 - P6	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
TIMING IN SECONDS																														
MINIMUM GREEN (VEH/BIKE)			6			8			8			6			-			6			15			15			10			
EXTENSION			2			2			2			2			-			2			2			2			2			
MAXIMUM I (AM & PM PEAK HOURS)			15			40			55			25			-			10			-			-			-			
MAXIMUM II (NOT USED)			-			-			-			-			-			-			-			-			-			
YELLOW CLEARANCE				4.5			4.5			4.5			3.5			-			4.5			4.5			4.5			3.5		
RED CLEARANCE					2.0			2.0			2.0			3.5			-			2.0			2.0			2.0			3.5	
PEDESTRIAN WALK															7															
PEDESTRIAN CLEARANCE/BUFFER																12	4													
BICYCLE CLEARANCE																			3.0	3.5										
RECALL			OFF			SOFT			SOFT			OFF			OFF			OFF			OFF			OFF			OFF			
DETECTOR MEMORY			NON-LOCK			-			-			NON-LOCK			LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			

*TIMING SHALL BE VARIABLE AND BASED ON DURATION OF FLASHING OPTICAL SIGNAL FROM APPROACHING EMERGENCY VEHICLE TRANSMITTER. SEE PREEMPTION NOTES.

TRAFFIC SIGNAL NOTES

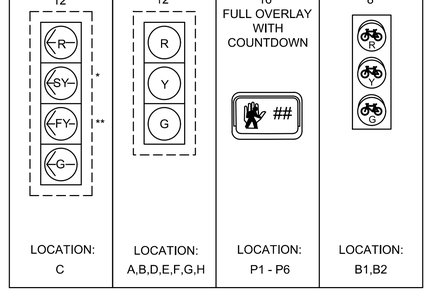
1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING CLEARANCE INTERVAL.
2. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.
3. THE SIGNAL SHALL PROVIDE STOP AND GO OPERATION 24 HOURS A DAY. FLASHING OPERATION SHALL BE FOR EMERGENCY ONLY.
4. A SEPARATE CONDUCTOR SHALL BE PROVIDED TO POWER THE BEACON.
5. THE CONTROLLER SHALL OPERATE UNDER STANDARD NEMA DUAL RING CONFIGURATION.
6. AUTOMATIC FLASHING OPERATION PER 2009 MUTCD.
7. MAX I - AT ALL TIMES
8. MAX II - NOT USED

PREFERENTIAL PHASE SEQUENCE



SIGNAL HEAD DATA

PROPOSED



NOTES:

1. SIGNAL HEADS SHALL BE LED TYPE WITH 5" NON-LOUVERED BACK PLATES AND 3" RETROREFLECTIVE YELLOW BORDER.
2. PEDESTRIAN HOUSINGS SHALL BE LED INTERNATIONAL SYMBOLS WITH 16" FULL OVERLAY LENS AND COUNTDOWN.

   * STEADY YELLOW LEFT
   ** FLASHING YELLOW LEFT
3. SIGNAL HEADS B1 AND B2 ARE PROPOSED BICYCLE SIGNAL HEAD DISPLAYS.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	66	131
	PROJECT FILE NO.	610647	

TRAFFIC TIMING PLAN
LOCATION 1
ROUTE 6 (MARION ROAD) AT SWIFTS BEACH ROAD
SHEET 2 OF 2

VIDEO DETECTOR DATA

CAMERA NO.	DETECTOR ZONE	MODE OF OPERATION	CALL DELAY (SEC.)	CALL EXTENSION (SEC.)	CALL PHASE	EXT. PHASE
MV	1	PRESENCE	0	0	Ø2	Ø2
MV	2	PRESENCE	0	0	Ø1	Ø1
MV	3	PRESENCE	0	0	Ø6	Ø6
MV	4	PRESENCE	5	0	Ø8	Ø8
MV	5	PRESENCE	0	0	Ø10	Ø10
MV	6	PRESENCE	0	0	Ø10	Ø10

ITEM 815.1 MAJOR ITEMS REQUIRED

QUAN	DESCRIPTION
1	ADVANCED TRANSPORTATION CONTROLLER (ATC) AND P4 CABINET
1	40' MAST ARM TYPE 2, STEEL, WITH FOUNDATION
1	30' MAST ARM TYPE 2, STEEL, WITH FOUNDATION
4	10' TRAFFIC SIGNAL POST AND BASE WITH FOUNDATION
2	8' SIGNAL POST AND BASE WITH FOUNDATION
7	SIGNAL HEAD 1-WAY, 3 SECTION (LED TYPE)
1	SIGNAL HEAD 1-WAY, 4 SECTION (LED TYPE)
6	PEDESTRIAN SIGNAL HEAD (LED TYPE) - 16" LENS WITH COUNTDOWN
6	PEDESTRIAN APS COMPATIBLE PUSH BUTTON WITH R10-3e SIGN AND SADDLE
1	CAMERA VIDEO DETECTION SYSTEM
1	360-DEGREE VIDEO DETECTION CAMERA WITH MOUNTING HARDWARE
3	OPTICAL DETECTOR (ONE-WAY) FOR FIRE PRE-EMPTION
1	PREEMPTION PHASE SELECTOR (DUAL CHANNEL)
1	PREEMPTION PHASE SELECTOR RACK
1	PREEMPTION CONFIRMATION BEACON (WHITE)
1	SERVICE CONNECTION W/ EVERSOURCE APPROVED HANDHOLE (POLYMER CONC.)
2	BICYCLE SIGNAL HEAD DISPLAY, 1-WAY 3-SECTION (LED TYPE)
	PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL

PRE-EMPTION PHASING PRIORITY

RECEIVER Ø PRIORITY	PRE-EMPT PHASE ASSIGN	MOVEMENT	VEHICLE PHASE ASSIGN
FPA	1	EB	Ø2
FPB	2	WB	Ø1 & Ø6
FPC	3	NB	Ø8

FIRE PREEMPTION OPERATION

1. PREEMPTION OPERATION UTILIZES AVAILABLE PHASES IN 8 PHASE TIMER THROUGH THE MSD PREEMPT INPUTS TO EFFECT APPROPRIATE SIGNAL DISPLAYS FOR SINGLE APPROACH MOVEMENTS AS SHOWN IN THE PREEMPTION PHASING AND PRIORITY CHART.
2. EMERGENCY VEHICLE PREEMPTION SIGNALS SHALL BE OPTICALLY-TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT THE INTERSECTION.
3. PREEMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS 1-3, ASSIGNED DESCENDING PRIORITIES AS FOLLOWS (1 HIGHEST AND 3 LOWEST).
4. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR FPA (FPB, FPC) THE CONTROLLER SHALL MAINTAIN OR ADVANCE TO AND HOLD THE EMERGENCY VEHICLE PREEMPTION PHASE A GREEN FOR A MININUM OF TEN (10) OR FIFTEEN (15) SECONDS OR UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME THE PREEMPTION PHASE CLEARANCE (YELLOW AND ALL RED) AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PREEMPTION PHASES AS NECESSARY.
5. NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MOUNT THE OPTICAL DETECTORS TO RECEIVE THE OPTIMAL PRE-EMPTION SIGNAL.
7. NORMAL OPERATION SHALL START-UP ON MAINLINE GREEN.

MAST ARM FOUNDATIONS

MAST ARM	BORING	LOCATION		SOIL TYPE	DESIGN WIND SPEED	ARM LENGTH	FOUNDATION DIAMETER	FOUNDATION DEPTH	VERTICAL BARS	TIE BARS
		STATION	OFFSET							
MA1-1	MB-1	15+55.59	47.64' RT	WET SAND (LOOSE)	130 MPH	40'	3'-6"	17'-0"	18-#8	#5 @ 8"
MA1-6	MB-6	14+85.88	32.37' LT	WET SAND (DENSE)	130 MPH	30'	3'-6"	10'-0"	18-#8	#5 @ 12"

1. FOR TYPICAL MAST ARM FOUNDATION AND REINFORCING DETAILS, SEE MASSDOT OVERHEAD SIGNAL STRUCTURE & FOUNDATION STANDARD DRAWINGS (DECEMBER 2015)

610647_HD10\SIGNAL-TIMING_01).DWG Plotted on 12-Mar-2026 3:29 PM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	67	131
	PROJECT FILE NO.	610647	

TRAFFIC SIGNAL PLAN

LOCATION 2
ROUTE 6 (MARION ROAD) AT WAREHAM PLAZA
SHEET 1 OF 2

610647_HD10(SIGNAL_02).DWG Plotted on 12-Mar-2026 11:37 AM

PROP 25' MAST ARM AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE
STA 33+23.75, 36.02' LT
N2738004.7061
E866644.4040
MA1-3

PROP 8' PEDESTRIAN SIGNAL POST AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE

PROP TRAFFIC CONTROLLER WITH FOUNDATION AND CONC PAD

PROP 8' PEDESTRIAN SIGNAL POST AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE

PROP 2 - 3" PVC CONDUIT WITH CONTROLLED DENSITY FILL

PROP ELECTRIC HANDHOLE - SD2.022 (TYP)

PROP 2-3" CONDUITS (1-ELECTRIC; 1-TELEPHONE)

PROP SERVICE CONNECTION W/ EVERSOURCE APPROVED HANDHOLE (POLYMER CONC.)

PROP VIDEO DETECTION ZONE (TYP)

PROP 8' PEDESTRIAN SIGNAL POST AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE

PROP OPTICAL DETECTION (TYP)

PROP CONFIRMATION BEACON

PROP 20' MAST ARM AND FOUNDATION
STA 33+52.74, 18.54' RT
N2737970.5863
E866695.9976
MA1-4

PROP 360-DEGREE VIDEO DETECTION CAMERA

PROP 3" PVC CONDUIT (TYP)

PROP 8' PEDESTRIAN SIGNAL POST AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE

PROP 8' PEDESTRIAN SIGNAL POST AND FOUNDATION W/ APS PUSHBUTTON ASSEMBLY W/ R10-3e SIGN AND SADDLE

PROP 12" X 12" PULL BOX (TYP)

PROP 20' MAST ARM AND FOUNDATION
STA 34+05.11, 17.99' RT
N2737994.5885
E866741.8897
MA1-5

PROP SHLO

REM

MA-R10-12a

ROUTE 6 (MARION ROAD)

1955 STATE HIGHWAY ALTERATION 4355

1930 STATE HIGHWAY ALTERATION 2728

BOURNE TERRACE

LONGMEADOW DRIVE

GLENDA AVENUE

1970 TOWN LO RL=32

NOTES:

1. THE FINAL LOCATION OF THE VIDEO DETECTION CAMERAS AND OPTICAL DETECTORS SHALL BE DETERMINED BY THE CONTRACTOR FOR BEST LINE OF SIGHT. THE LIMITS OF THE DETECTION ZONE SHALL BE FIELD ADJUSTED TO PREVENT FALSE CALLS.
2. PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED TO BE PARALLEL WITH THE CROSSWALK PER MUTCD 4E.08.
3. PROPOSED PULL BOXES SHALL BE ADJACENT TO CURB OTHERWISE NOTED AND SHALL NOT BE LOCATED IN PEDESTRIAN CURB RAMPS.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF MAST ARM POLES TO AVOID UNDERGROUND UTILITY CONFLICTS BEFORE INSTALLATION.
5. ALL ELECTRIC HANDHOLES - SD2.022 SHALL HAVE 45-DEGREE UPWARD CONDUIT SWEEPS.

0 20 50 100

SCALE: 1" = 20'

SIGNAL PHASING AND TIMING CHART - FULLY ACTUATED

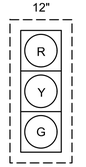


			Ø2			Ø4			Ø5			Ø6			Ø9 (PED)			FIRE PREEMPTION PRE-EMPT "FPA"			PRE-EMPT "FPB"			PRE-EMPT "FPC"			EMERGENCY FLASH
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	OPER.
MARION RD	EB	B,C	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY
MARION RD	EB-LT	A	FYL	SYL	RL	RL	RL	RL	GL	SYL	RL	RL	RL	RL	RL	RL	RL	GL	SYL	RL	RL	RL	RL	RL	RL	RL	FYL
MARION RD	WB	D,E	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY
WAREHAM PLAZA DRIVEWAY	SB	F,G	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
PEDESTRIAN	ALL	P1 - P6	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
TIMING IN SECONDS																											
MINIMUM GREEN			15			7			7			15			-			15			15			10			
EXTENSION			2			2			2			2			-			2			2			2			
MAXIMUM I (AM & PM PEAK HOURS)			60			20			15			45			-			-			-			-			
MAXIMUM II (NOT USED)			-			-			-			-			-			-			-			-			
YELLOW CLEARANCE				4.5			3.0			4.5			4.5			-			4.5			4.5			3.0	
RED CLEARANCE					2.5			2.0			2.5			2.5			-			2.5			2.5			2.0
PEDESTRIAN WALK															7												
PEDESTRIAN CLEARANCE/BUFFER																15	4										
RECALL			SOFT			OFF			OFF			SOFT			OFF			OFF			OFF			OFF			
DETECTOR MEMORY			-			NON-LOCK			NON-LOCK			-			LOCK			NON-LOCK			NON-LOCK			NON-LOCK			

*TIMING SHALL BE VARIABLE AND BASED ON DURATION OF FLASHING OPTICAL SIGNAL FROM APPROACHING EMERGENCY VEHICLE TRANSMITTER. SEE PREEMPTION NOTES.

SIGNAL HEAD DATA

PROPOSED





NOTES:

1. SIGNAL HEADS SHALL BE LED TYPE WITH 5" NON-LOUVERED BACK PLATES AND 3" RETROREFLECTIVE YELLOW BORDER
2. PEDESTRIAN HOUSINGS SHALL BE LED INTERNATIONAL SYMBOLS WITH 16" FULL OVERLAY LENS AND COUNTDOWN.
   * STEADY YELLOW LEFT
   ** FLASHING YELLOW LEFT

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	68	131
PROJECT FILE NO.	610647		

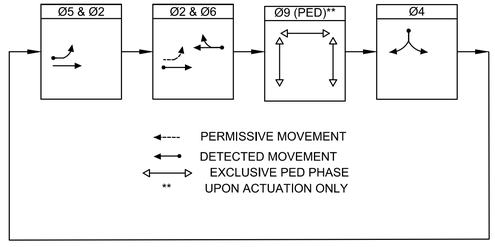
TRAFFIC TIMING PLAN
LOCATION 2
ROUTE 6 (MARION ROAD) AT WAREHAM PLAZA
SHEET 2 OF 2

610647_HD10\SIGNAL-TIMING_02).DWG Plotted on 3-Mar-2026 8:38 AM

TRAFFIC SIGNAL NOTES

1. 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 WILL NOT CHANGE DURING CLEARANCE INTERVAL.
2. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.
3. THE SIGNAL SHALL PROVIDE STOP AND GO OPERATION 24 HOURS A DAY. FLASHING OPERATION SHALL BE FOR EMERGENCY ONLY.
4. A SEPARATE CONDUCTOR SHALL BE PROVIDED TO POWER THE BEACON.
5. THE CONTROLLER SHALL OPERATE UNDER STANDARD NEMA DUAL RING CONFIGURATION.
6. AUTOMATIC FLASHING OPERATION PER 2009 MUTCD.
7. MAX I - AT ALL TIMES
8. MAX II - NOT USED

PREFERENTIAL PHASE SEQUENCE



VIDEO DETECTOR DATA

CAMERA NO.	DETECTOR ZONE	MODE OF OPERATION	CALL DELAY (SEC.)	CALL EXTENSION (SEC.)	CALL PHASE	EXT. PHASE
MV	1	PRESENCE	0	0	Ø5	Ø5
MV	2	PRESENCE	0	0	Ø2	Ø2
MV	3	PRESENCE	0	0	Ø6	Ø6
MV	4	PRESENCE	0	0	Ø4	Ø4

ITEM 816.02 MAJOR ITEMS REQUIRED

QUAN	DESCRIPTION
1	ADVANCED TRANSPORTATION CONTROLLER (ATC) AND P4 CABINET
1	25' MAST ARM TYPE 2, STEEL, WITH FOUNDATION
2	20' MAST ARM TYPE 2, STEEL, WITH FOUNDATION
6	8' SIGNAL POST AND BASE WITH FOUNDATION
6	SIGNAL HEAD 1-WAY, 3 SECTION (LED TYPE)
1	SIGNAL HEAD 1-WAY, 4 SECTION (LED TYPE)
6	PEDESTRIAN SIGNAL HEAD (LED TYPE) - 16" LENS WITH COUNTDOWN
6	PEDESTRIAN APS COMPATIBLE PUSH BUTTON WITH R10-3e SIGN AND SADDLE
1	CAMERA VIDEO DETECTION SYSTEM
1	360-DEGREE VIDEO DETECTION CAMERA WITH MOUNTING HARDWARE
3	OPTICAL DETECTOR (ONE-WAY) FOR FIRE PRE-EMPTION
1	PREEMPTION PHASE SELECTOR (DUAL CHANNEL)
1	PREEMPTION PHASE SELECTOR RACK
1	PREEMPTION CONFIRMATION BEACON (WHITE)
1	SERVICE CONNECTION - OVERHEAD
1	REMOVE AND TRANSPORT EXISTING SIGNAL EQUIPMENT TO MASSDOT MAINTENANCE YARD
	PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL

PRE-EMPTION PHASING PRIORITY

RECEIVER Ø PRIORITY	PRE-EMPT PHASE ASSIGN	MOVEMENT	VEHICLE PHASE ASSIGN
FPA	1	EB	Ø5 & Ø2
FPB	2	WB	Ø6
FPC	3	SB	Ø4

FIRE PREEMPTION OPERATION

1. PREEMPTION OPERATION UTILIZES AVAILABLE PHASES IN 8 PHASE TIMER THROUGH THE MSD PREEMPT INPUTS TO EFFECT APPROPRIATE SIGNAL DISPLAYS FOR SINGLE APPROACH MOVEMENTS AS SHOWN IN THE PREEMPTION PHASING AND PRIORITY CHART.
2. EMERGENCY VEHICLE PREEMPTION SIGNALS SHALL BE OPTICALLY-TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT THE INTERSECTION.
3. PREEMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS 1-3, ASSIGNED DESCENDING PRIORITIES AS FOLLOWS (1 HIGHEST AND 3 LOWEST).
4. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR FPA (FPB, FPC) THE CONTROLLER SHALL MAINTAIN OR ADVANCE TO AND HOLD THE EMERGENCY VEHICLE PREEMPTION PHASE A GREEN FOR A MININUM OF TEN (10) OR FIFTEEN (15) SECONDS OR UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME THE PREEMPTION PHASE CLEARANCE (YELLOW AND ALL RED) AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PREEMPTION PHASES AS NECESSARY.
5. NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MOUNT THE OPTICAL DETECTORS TO RECEIVE THE OPTIMAL PRE-EMPTION SIGNAL.
7. NORMAL OPERATION SHALL START-UP ON MAINLINE GREEN.

MAST ARM FOUNDATIONS

MAST ARM	BORING	LOCATION STATION	LOCATION OFFSET	SOIL TYPE	DESIGN WIND SPEED	ARM LENGTH	FOUNDATION DIAMETER	FOUNDATION DEPTH	VERTICAL BARS	TIE BARS
MA1-3	MB-3	33+23.75	36.02' LT	WET SAND (LOOSE)	130 MPH	25'	3'-6"	13'-6"	18-#8	#5 @ 12"
MA1-4	MB-4	33+52.74	18.54' RT	WET SAND (LOOSE)	130 MPH	20'	3'-6"	11'-6"	18-#8	#5 @ 12"
MA1-5	MB-5	34+05.11	17.99' RT	WET SAND (DENSE)	130 MPH	20'	3'-6"	10'-0"	18-#8	#5 @ 12"

1. FOR TYPICAL MAST ARM FOUNDATION AND REINFORCING DETAILS, SEE MASSDOT OVERHEAD SIGNAL STRUCTURE & FOUNDATION STANDARD DRAWINGS (DECEMBER 2015)

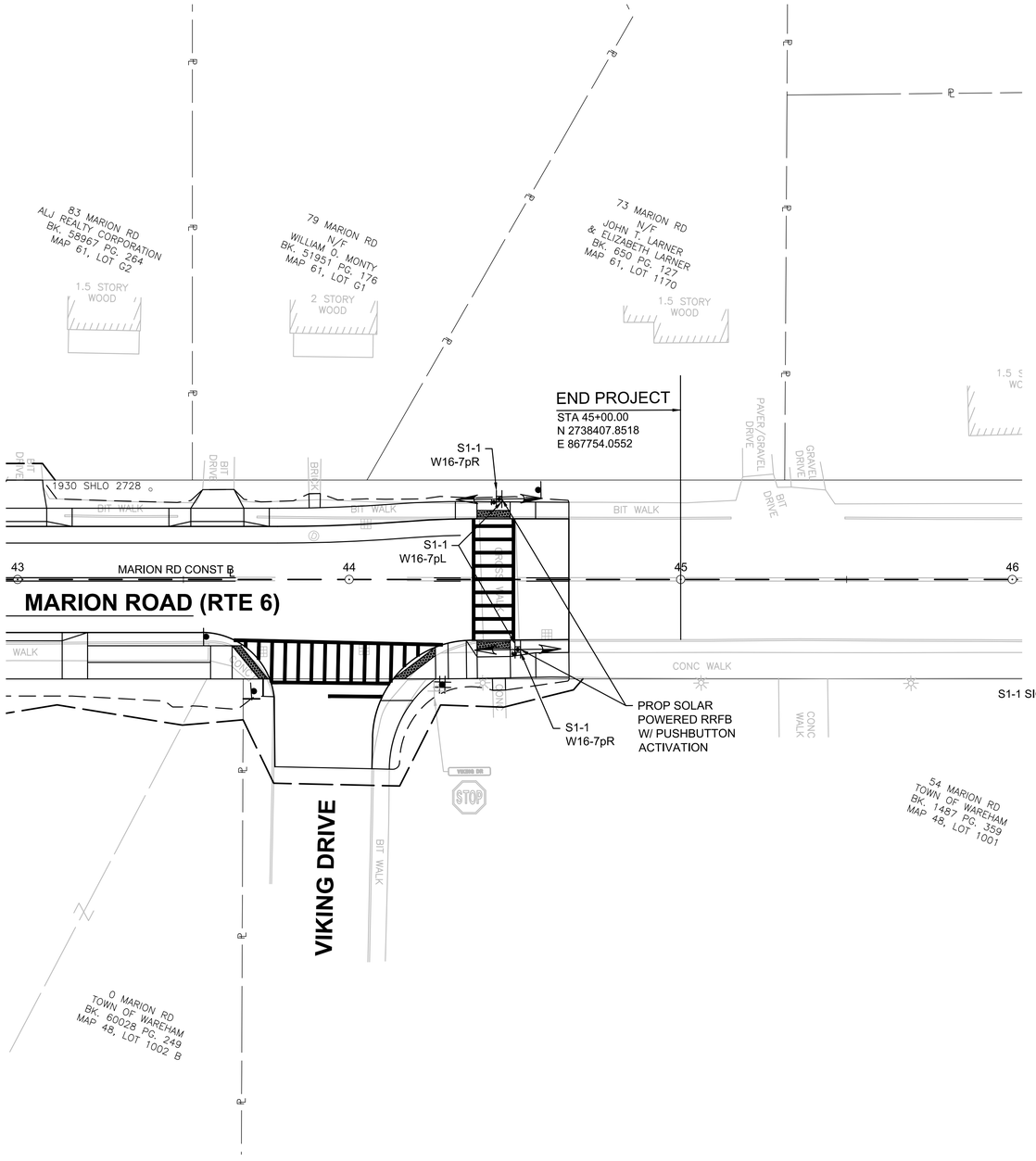
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	69	131
	PROJECT FILE NO.	610647	

TRAFFIC SIGNAL PLAN

LOCATION 3
ROUTE 6 (MARION ROAD) AT VIKING DRIVE
SHEET 1 OF 1

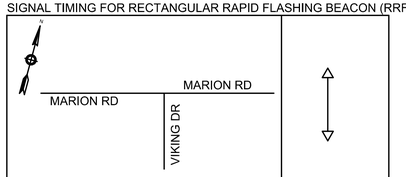
610647_HD10(SIGNAL_03).DWG Plotted on 3-Mar-2026 8:38 AM



0 20 50 100

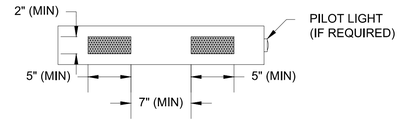
SCALE: 1" = 20'

SIGNAL TIMING FOR RECTANGULAR RAPID FLASHING BEACON (RRFB)



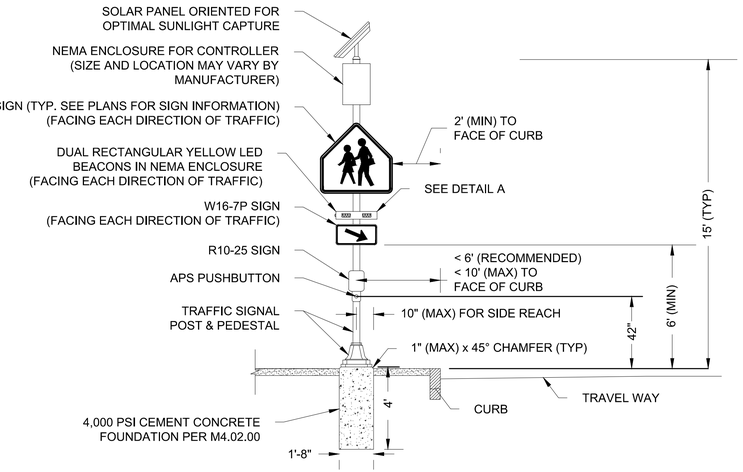
STREET	DIRECTION	1	2
MARION RD	EB/WB	DARK	FLASH
TIMING IN SECONDS			
PEDESTRIAN CLEARANCE			13

DETAIL A: DUAL YELLOW BEACON



NOTES:

1. CROSSWALK AND ADA/AAB-COMPLIANT RAMPS NOT SHOWN. SEE PLANS FOR LOCATIONS.
2. APS PUSHBUTTONS SHALL BE POSITIONED TO MEET ALL ADA/AAB REQUIREMENTS



RECTANGULAR RAPID FLASHING BEACON DETAIL

N.T.S.

ITEM 816.02 MAJOR ITEMS REQUIRED	
QUAN	DESCRIPTION
2	CEMENT CONCRETE FOUNDATIONS PER 812.30.1
2	15' TRAFFIC SIGNAL POSTS & PEDESTALS
2	APS PUSHBUTTON SYSTEMS
4	DUAL RECTANGULAR YELLOW LED BEACONS IN NEMA ENCLOSURES
2	R10-25 SIGNS
4	S1-1 SIGNS
2	W16-7PR SIGNS
2	W16-7PL SIGNS
2	SOLAR PANEL SYSTEMS
2	NEMA ENCLOSURES FOR ALL COMPONENTS NEEDED TO MEET FUNCTIONAL REQUIREMENTS PER SPECIAL PROVISIONS
2	BATTERY SYSTEMS
	PLUS ALL MOUNTING AND SUPPORTING HARDWARE AND WIRING NECESSARY TO COMPLETE A WORKING SYSTEM.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	70	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL DETAILS

SHEET 1 OF 2

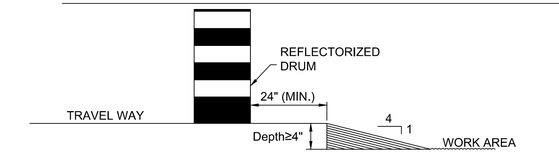
610647_HD11(TTCP).DWG Plotted on 3-Mar-2026 8:38 AM

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, THE MASSACHUSETTS AMENDMENTS TO THE MUTCD, AND MASSDOT'S TMP MANUAL.
2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. CONTRACTORS 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.
7. THE FIRST TEN PLASTIC DRUMS OF A MERGING TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
11. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER. 14 FEET IS PROVIDED TO ALLOW CYCLISTS TO SHARE THE LANE AS NO SEPARATE BICYCLE FACILITIES ARE PROVIDED.
12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
13. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS.
14. AT THE END OF EACH CONSTRUCTION DAY, THE CONTRACTOR SHALL ENSURE THAT NECESSARY TRAFFIC CONTROL DEVICES ARE EFFECTIVELY PLACED TO PROVIDE SAFE PASSAGE OF VEHICLES AND PEDESTRIANS BETWEEN THE ZONES AND THE ADJOINING ROADWAYS. THE CONTRACTOR SHALL ENSURE THAT SAFE ACCESS/EGRESS OF SIDE STREETS AND ALL DRIVEWAY ENTRANCES AND EXITS ABUTTING THAT WORK ZONE ARE MAINTAINED DURING NIGHT TIME AND ON WEEKENDS.
15. THE ADVANCED CONSTRUCTION SIGNING PLAN SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
16. TEMPORARY PAINTED PAVEMENT MARKINGS (6") SHALL BE APPLIED BETWEEN PAVING COURSES OR AS NEEDED. CONFLICTING LINES SHALL BE REMOVED BY AN APPROVED METHOD.
17. ALL TEMPORARY PEDESTRIAN ACCESS ROUTES SHALL BE IN CONFORMANCE WITH THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY PEDESTRIAN ACCESS ROUTES, BUT COMPENSATION SHALL BE CONSIDERED INCLUDED UNDER THE TOTAL CONTRACT AMOUNT.
18. CONES SHALL BE A MINIMUM OF 36".

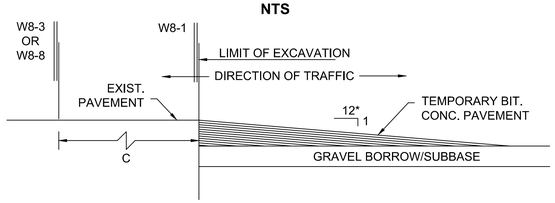
LEGEND:

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



LATERAL DROP-OFF DETAIL

NTS



LONGITUDINAL DROP-OFF DETAIL

NTS

* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
URBAN (30 MPH OR LESS)	100	100	100
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* 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. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

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.

MA-R2-10e SHALL BE LOCATED 100'-500' BEYOND ENDING TAPER.

Based on: Table 6C-1 MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE
TANGENT LENGTH**	AT LEAST 2L

**TANGENT LENGTH MEASURED BETWEEN TWO TAPERS

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

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

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH

Source: Table 6C-4 MUTCD LATEST EDITION

CONVENTIONAL ROADWAY- A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY- A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD- A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

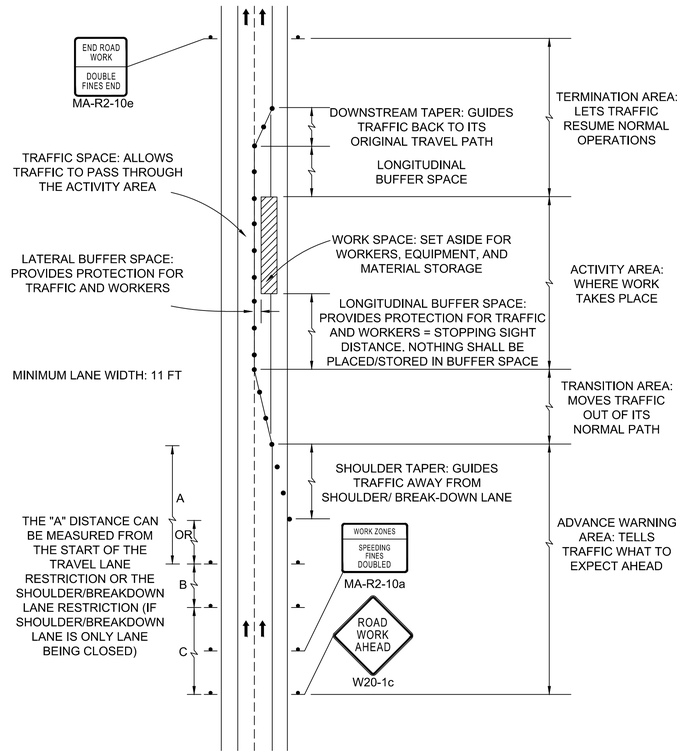
SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

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

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION



COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE

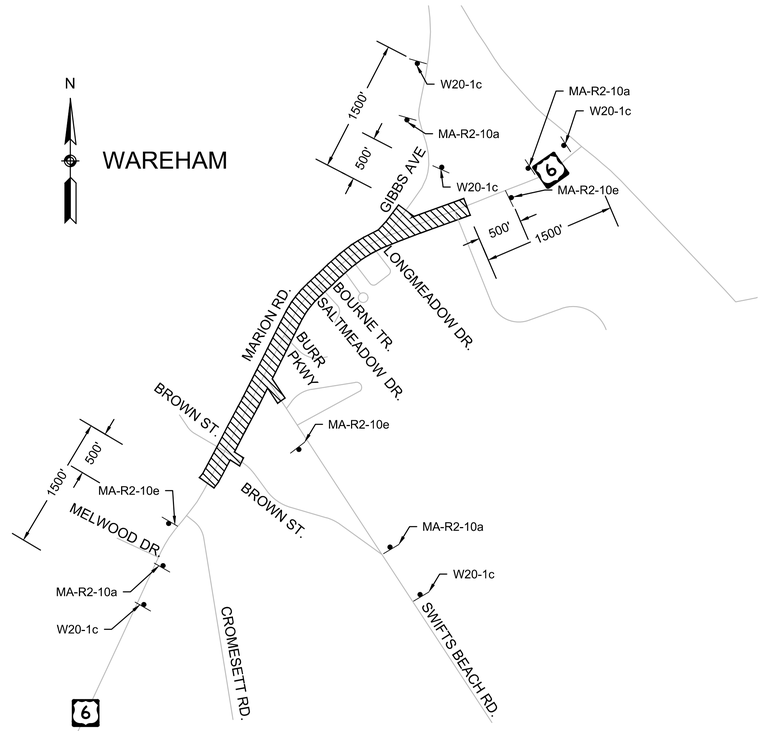
N.T.S.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	71	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL DETAILS
SHEET 2 OF 2

TEMPORARY TRAFFIC CONTROL DETAILS		
DETAIL NUMBER	DETAIL NAME	CURRENT VERSION
850.1.1	TEMPORARY CURB RAMP (1 OF 2)	Jan-25
850.1.2	TEMPORARY CURB RAMP (2 OF 2)	Jan-25
851.1.1	CONES & DRUMS	Jan-25
851.2.1	TYPE III BARRICADE	Jan-25
851.2.2	TYPE III BARRICADE WITH SIGN	Jan-25
851.3.1	PEDESTRIAN CHANNELIZING DEVICE	Jan-25
852.1.1	SIDEWALK DETOUR	Jan-25
852.1.2	SIDEWALK DIVERSION	Jan-25
852.1.3	PEDESTRIAN DETOUR FOR CROSSWALK CLOSURE	Jan-25
852.6.1	MULTI-LANE ROAD RIGHT LANE CLOSURE	Jan-25
852.6.4	MULTI-LANE ROAD HALF ROAD CLOSURE	Jan-25
852.6.5	MULTI-LANE TOAD INTERIOR LANES CLOSURE	Jan-25
852.10.1	INTERSECTION CENTER CLOSURE	Jan-25
852.10.2	INTERSECTION QUADRANT CLOSURE	Jan-25
852.10.3	INTERSECTION FAR INSIDE LANE CLOSURE	Jan-25
852.10.4	INTERSECTION FAR RIGHT LANE CLOSURE	Jan-25
852.10.5	INTERSECTION HALF ROAD CLOSURE	Jan-25
852.10.6	INTERSECTION MULTI-LANE CLOSURE (LOW SPEED)	Jan-25



ADVANCE WARNING SIGN DETAIL
NTS

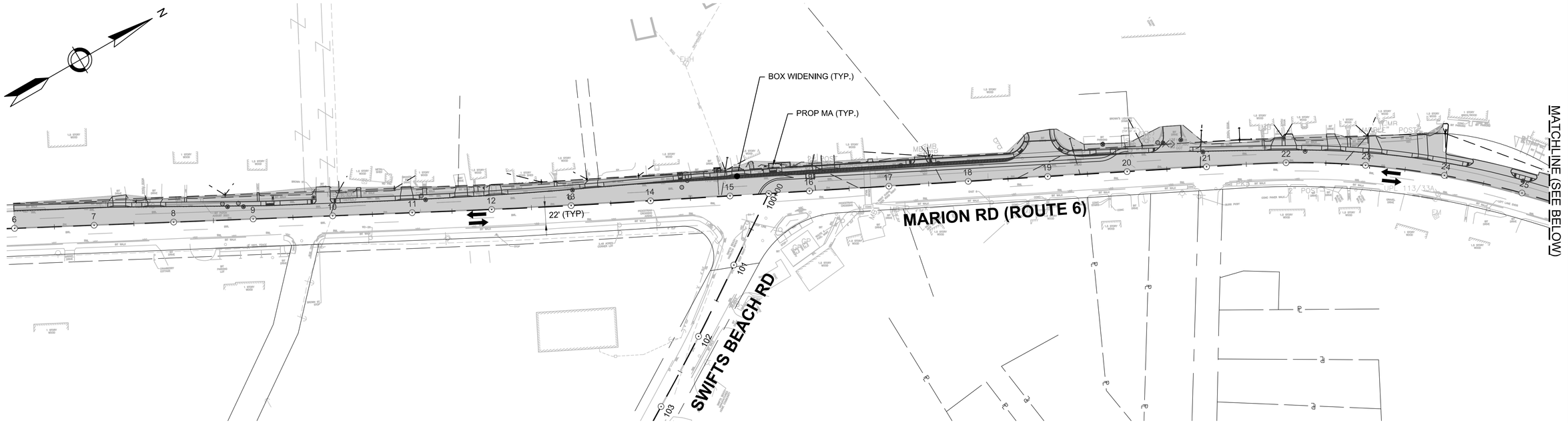
610647_HD11(TTCP).DWG Plotted on 3-Mar-2026 8:38 AM

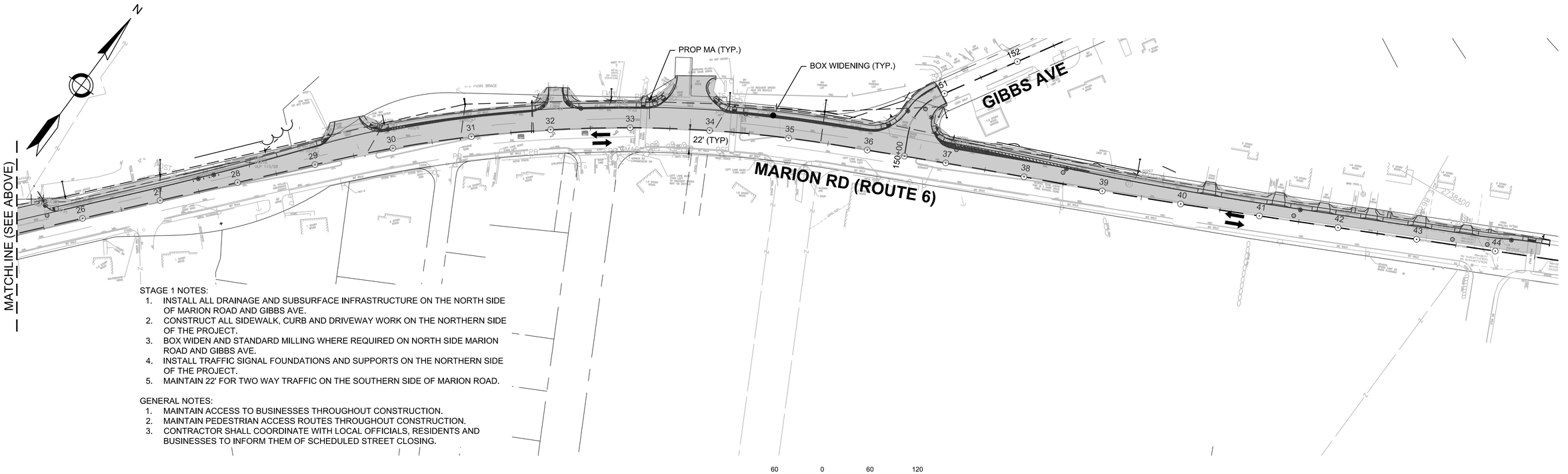
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	72	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL PLAN
STAGE 1

610647_HD11(TTCP_01).DWG Plotted on 3-Mar-2026 8:38 AM





STAGE 1 NOTES:
1. INSTALL ALL DRAINAGE AND SUBSURFACE INFRASTRUCTURE ON THE NORTH SIDE OF MARION ROAD AND GIBBS AVE.
2. CONSTRUCT ALL SIDEWALK, CURB AND DRIVEWAY WORK ON THE NORTHERN SIDE OF THE PROJECT.
3. BOX WIDEN AND STANDARD MILLING WHERE REQUIRED ON NORTH SIDE MARION ROAD AND GIBBS AVE.
4. INSTALL TRAFFIC SIGNAL FOUNDATIONS AND SUPPORTS ON THE NORTHERN SIDE OF THE PROJECT.
5. MAINTAIN 22' FOR TWO WAY TRAFFIC ON THE SOUTHERN SIDE OF MARION ROAD.

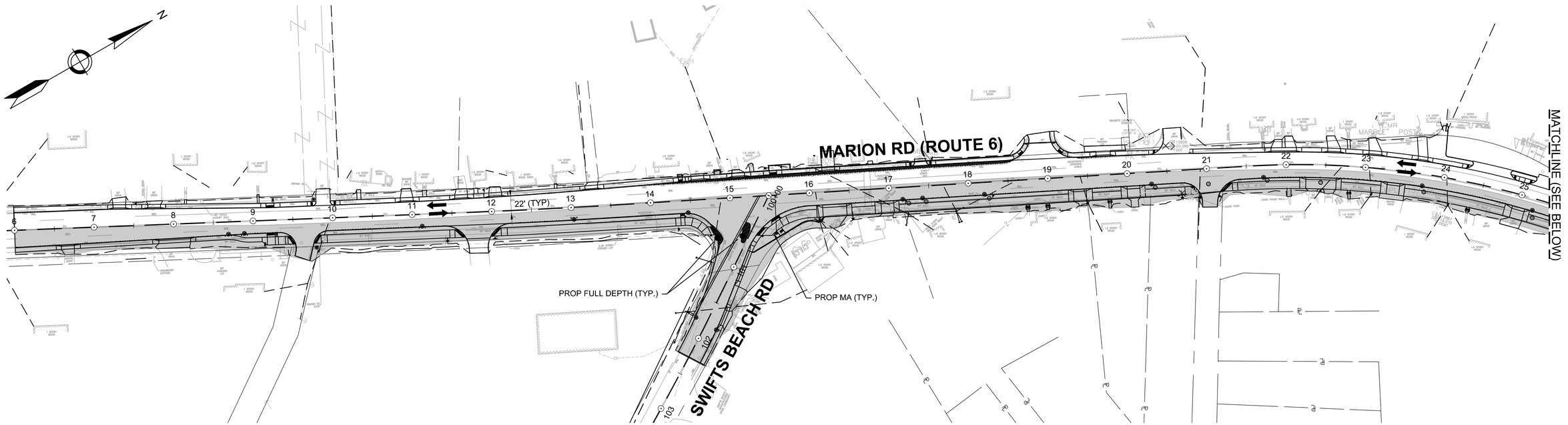
GENERAL NOTES:
1. MAINTAIN ACCESS TO BUSINESSES THROUGHOUT CONSTRUCTION.
2. MAINTAIN PEDESTRIAN ACCESS ROUTES THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH LOCAL OFFICIALS, RESIDENTS AND BUSINESSES TO INFORM THEM OF SCHEDULED STREET CLOSING.

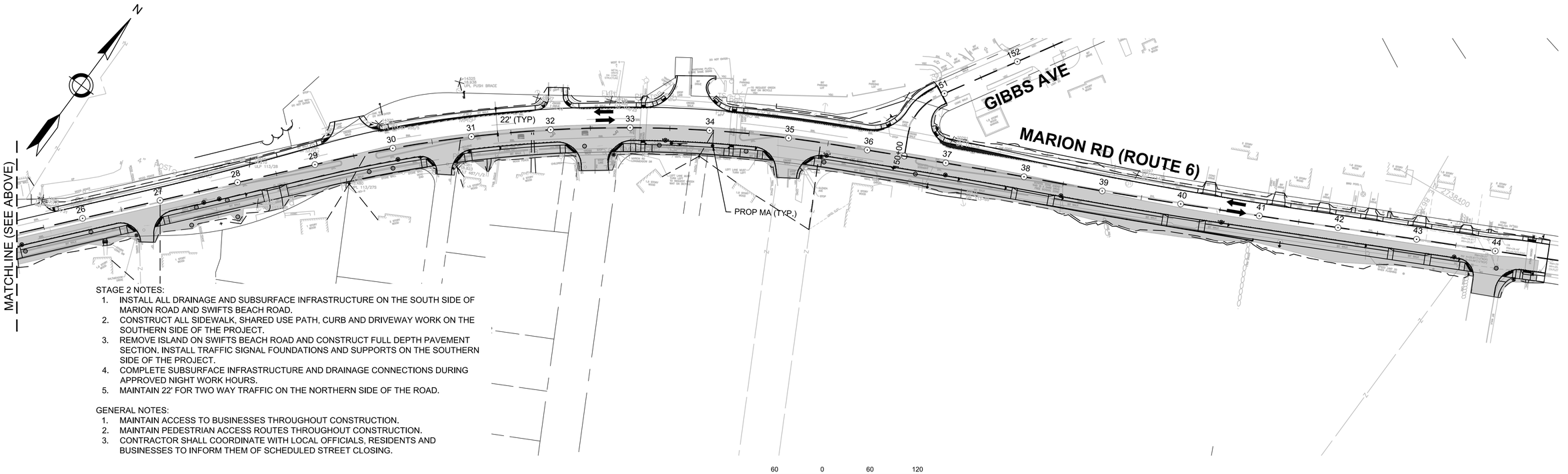
60 0 60 120
SCALE IN FEET

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	73	131
	PROJECT FILE NO. 610647		

TEMPORARY TRAFFIC CONTROL PLAN
STAGE 2





STAGE 2 NOTES:
1. INSTALL ALL DRAINAGE AND SUBSURFACE INFRASTRUCTURE ON THE SOUTH SIDE OF MARION ROAD AND SWIFTS BEACH ROAD.
2. CONSTRUCT ALL SIDEWALK, SHARED USE PATH, CURB AND DRIVEWAY WORK ON THE SOUTHERN SIDE OF THE PROJECT.
3. REMOVE ISLAND ON SWIFTS BEACH ROAD AND CONSTRUCT FULL DEPTH PAVEMENT SECTION. INSTALL TRAFFIC SIGNAL FOUNDATIONS AND SUPPORTS ON THE SOUTHERN SIDE OF THE PROJECT.
4. COMPLETE SUBSURFACE INFRASTRUCTURE AND DRAINAGE CONNECTIONS DURING APPROVED NIGHT WORK HOURS.
5. MAINTAIN 22' FOR TWO WAY TRAFFIC ON THE NORTHERN SIDE OF THE ROAD.

GENERAL NOTES:
1. MAINTAIN ACCESS TO BUSINESSES THROUGHOUT CONSTRUCTION.
2. MAINTAIN PEDESTRIAN ACCESS ROUTES THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH LOCAL OFFICIALS, RESIDENTS AND BUSINESSES TO INFORM THEM OF SCHEDULED STREET CLOSING.

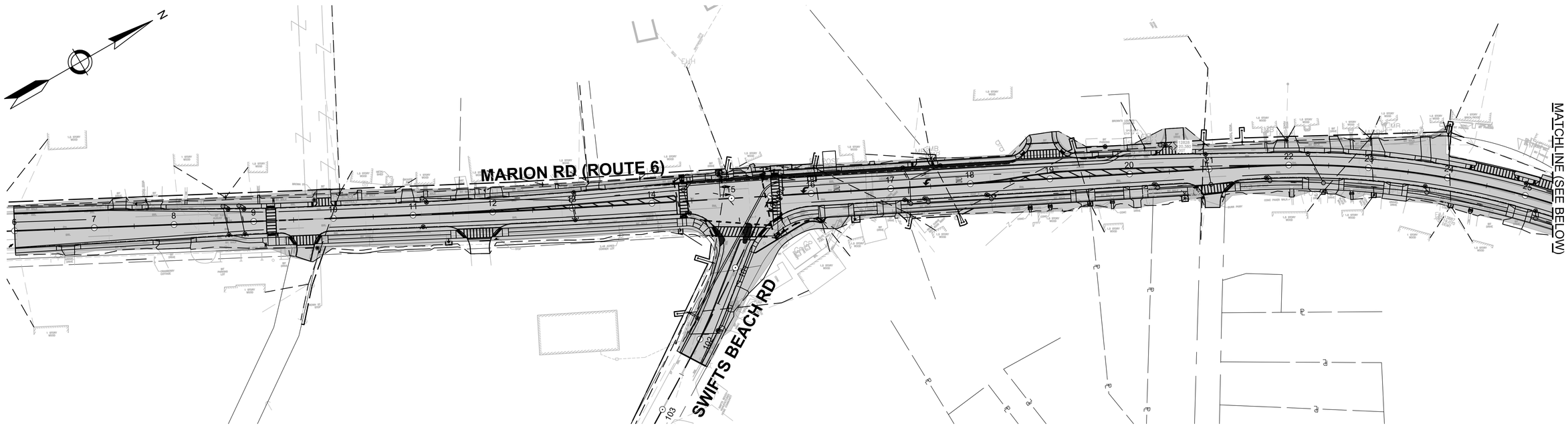
60 0 60 120
SCALE IN FEET

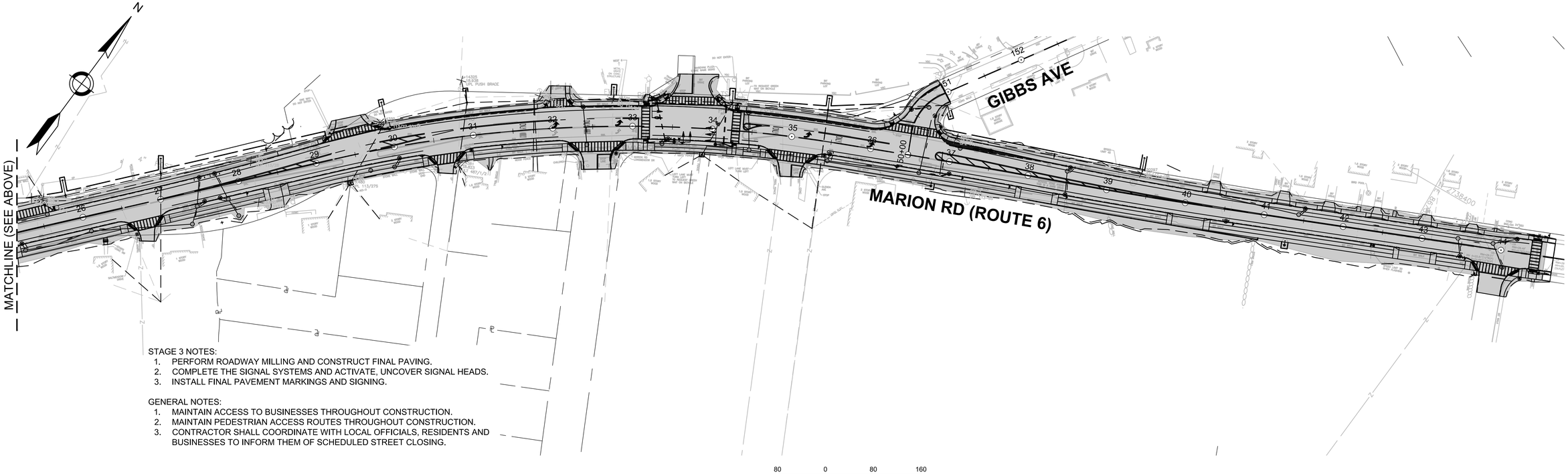
610647_HD11(TTCP_02).DWG Plotted on 3-Mar-2026 8:39 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	74	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL PLAN
STAGE 3





STAGE 3 NOTES:
1. PERFORM ROADWAY MILLING AND CONSTRUCT FINAL PAVING.
2. COMPLETE THE SIGNAL SYSTEMS AND ACTIVATE, UNCOVER SIGNAL HEADS.
3. INSTALL FINAL PAVEMENT MARKINGS AND SIGNING.

GENERAL NOTES:
1. MAINTAIN ACCESS TO BUSINESSES THROUGHOUT CONSTRUCTION.
2. MAINTAIN PEDESTRIAN ACCESS ROUTES THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH LOCAL OFFICIALS, RESIDENTS AND BUSINESSES TO INFORM THEM OF SCHEDULED STREET CLOSING.

80 0 80 160
SCALE IN FEET

610647_HD11(TTCP_03).DWG Plotted on 3-Mar-2026 8:39 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	75	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL PLAN

STAGE 1 TRAFFIC CONTROL

610647_HD11(TTCP_04).DWG Plotted on 3-Mar-2026 8:39 AM

MARION RD (ROUTE 6)

MARION ROAD CONSTRUCTION

CROMESETT RD

VIKING DR

100' DOWNSTREAM TAPER

W1-4R

11' MIN.

11' MIN.

BUFFER

300' MERGING TAPER

350'

425'

LEFT LANE CLOSED AHEAD

W20-5L

W4-2L

LANDSCAPE

STONE WALL WITH SIGN

150' SHIFTING TAPER

350'

350'

W1-4L

ROAD NARROWS

W5-1

100' DOWNSTREAM TAPER

W1-4L

SCHOOL SPEED LIMIT 20 WHEN FLASHING

20 0 20 40

SCALE IN FEET

NOTES:

SETUP SHOWN IS GENERAL APPROACH TO LANE REDUCTION AND LANE SHIFT DURING STAGE 1. IT IS INTENDED THAT THE WORK ZONE WILL SHIFT ALONG THE CORRIDOR ALONG THE NORTHERN SIDE OF MARION ROAD.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	76	131
	PROJECT FILE NO.	610647	

TEMPORARY TRAFFIC CONTROL PLAN

STAGE 2 TRAFFIC CONTROL

610647_HD1(TTCP_05).DWG Plotted on 3-Mar-2026 8:40 AM

MATCHLINE (SEE BELOW)

METAL GUARDRAIL

350'

350'

300' MERGING TAPER

RIGHT LANE CLOSED AHEAD

W20-5R

W4-2R

11' MIN

CONC FOUNDATION WITH SIGN

VACUUM/AIR

CROMESETT RD

MATCHLINE (SEE ABOVE)

300' BUFFER

150' SHIFTING TAPER

BUFFER

W4-1L

MARION RD (ROUTE 6)

MARION ROAD CONSTRUCTION B

11' MIN.

11' MIN.

CROSS WALK

STOP LINE

CONC WALK

STONE WALL WITH SIGN

LANDSCAPE

GRAVEL DRIVE

PAVERS

W4-1L

W1-4R

ROAD NARROWS

W5-1

350'

350'

150' SHIFTING TAPER

BUFFER

1.5 STORY WOOD

PAVER/GRAVEL DRIVE

GRAVEL DRIVE

BIT DRIVE

HEDGE LINE

BIT WALK

CONC BND/SH 24"DEC

11' MIN.

11' MIN.

MARION RD (ROUTE 6)

VIKING DR

EDGE LINE

W1-1R

75' DOWNSTREAM TAPER

SIGN

20 0 20 40

SCALE IN FEET

NOTES:

SETUP SHOWN IS GENERAL APPROACH TO LANE REDUCTION AND LANE SHIFT DURING STAGE 2. IT IS INTENDED THAT THE WORK ZONE WILL SHIFT ALONG THE CORRIDOR ALONG THE SOUTHERN SIDE OF MARION ROAD.

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	77	131
	PROJECT FILE NO.	610647	

CONSTRUCTION SIGN SUMMARY

SHEET 1 OF 1

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES) WIDTH	HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	LEGEND	BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
MA-R2-10a	48	36	WORK ZONE SPEEDING FINES DOUBLED	SEE MASSDOT STANDARD			6	FLOU. ORANGE	BLACK	BLACK	-	12.00	72.00
								WHITE	BLACK	BLACK			
MA-R2-10e	36	48	END ROAD WORK / DOUBLE FINES END	SEE MASSDOT STANDARD			3	FLOU. ORANGE	BLACK	BLACK	-	12.00	36.00
								WHITE	BLACK	BLACK			
R3-7L	36	36	LEFT LANE MUST TURN LEFT	SEE 2009 MUTCD			1	WHITE	BLACK	BLACK	-	9.00	9.00
R3-7R	36	36	RIGHT LANE MUST TURN RIGHT	SEE 2009 MUTCD			1	WHITE	BLACK	BLACK	-	9.00	9.00
R4-7	24	30		SEE 2009 MUTCD			4	WHITE	BLACK	BLACK	-	5.00	20.00
R9-9	30	18	SIDEWALK CLOSED	SEE 2009 MUTCD			4	WHITE	BLACK	BLACK	-	3.75	15.00
R9-11aL	48	24	SIDEWALK CLOSED ← CROSS HERE	SEE 2009 MUTCD			2	WHITE	BLACK	BLACK	-	8.00	16.00
R9-11aR	48	24	SIDEWALK CLOSED → CROSS HERE	SEE 2009 MUTCD			2	WHITE	BLACK	BLACK	-	8.00	16.00
W1-4L	36	36		SEE 2009 MUTCD			1	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	9.00
W1-4R	36	36		SEE 2009 MUTCD			1	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	9.00
W4-2L	36	36		SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	18.00
W4-2R	36	36		SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	18.00

TOTAL = 247.00 SF

NOTES:

1. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY SHALL MEET CRITERIA SET FORTH IN NCHRP 350, OR MASH.

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES) WIDTH	HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACK-GROUND	LEGEND	BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
MA-W4-7R	36	36	THRU TRAFFIC MERGE RIGHT	SEE MASSDOT STANDARD			1	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	9.00
MA-W4-7L	36	36	THRU TRAFFIC MERGE LEFT	SEE MASSDOT STANDARD			1	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	9.00
W5-1	36	36	ROAD NARROWS	SEE 2009 MUTCD			6	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	54.00
W8-3	36	36	PAVEMENT ENDS	SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	18.00
W11-2	36	36		SEE 2009 MUTCD			2	FLOUR-ESCENT YELLOW/ GREEN	BLACK	BLACK	-	9.00	18.00
W13-1p	24	30	XX M.P.H.	SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	*	5.00	10.00
W16-7pL	24	12		SEE 2009 MUTCD			2	FLOUR-ESCENT YELLOW/ GREEN	BLACK	BLACK	*	2.00	4.00
W20-1	36	36	ROAD WORK AHEAD	SEE 2009 MUTCD			6	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	54.00
W20-5L	36	36	LEFT LANE CLOSED AHEAD	SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	18.00
W20-5R	36	36	RIGHT LANE CLOSED AHEAD	SEE 2009 MUTCD			2	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	18.00
MA-W20-7b	36	36	POLICE OFFICER AHEAD	SEE MASSDOT STANDARD			8	FLOUR-ESCENT ORANGE	BLACK	BLACK	-	9.00	72.00

TOTAL = 284.00 SF

610647_HD11(TTCP).DWG Plotted on 3-Mar-2026 8:40 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	78	131
	PROJECT FILE NO.	610647	

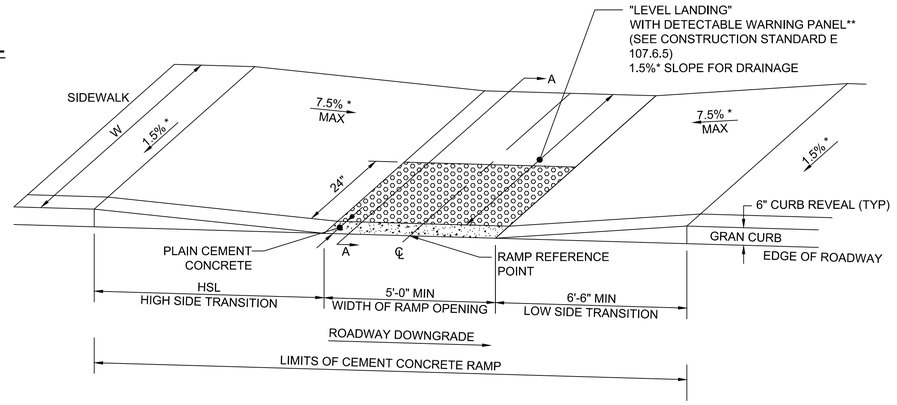
CONSTRUCTION DETAILS
SHEET 1 OF 9

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:40 AM

PEDESTRIAN CURB RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
PCR 1	MARION ROAD	9+21.95	16.00' LT	5' - 6"	10' - 0"	+0.34%	6' - 6"	7' - 8"
PCR 6	MARION ROAD	14+39.20	24.01' LT	5' - 6"	5' - 0"	+0.48%	6' - 6"	3' - 10" **
PCR 10	MARION ROAD	15+55.98	25.85' LT	5' - 6"	9' - 0"	-0.14%	7' - 8"	6' - 6"
PCR 11	MARION ROAD	18+69.19	32.39' LT	5' - 6"	5' - 0"	+1.58%	6' - 6"	9' - 0"
PCR 12	MARION ROAD	19+16.62	31.56' LT	5' - 6"	5' - 0"	-1.20%	9' - 0"	6' - 6"
PCR 28	MARION ROAD	32+21.97	30.56' LT	5' - 6"	5' - 0"	+1.76%	6' - 6"	9' - 0"
PCR 32	MARION ROAD	33+16.30	26.00' LT	5' - 6"	5' - 0"	+1.03%	6' - 6"	9' - 0"
PCR 35	MARION ROAD	34+29.10	26.00' LT	5' - 6"	5' - 0"	+1.03%	3' - 3" **	9' - 0"
PCR 39	MARION ROAD	36+22.51	34.02' LT	5' - 6"	5' - 0"	+0.10%	6' - 6"	7' - 8"
PCR 40	MARION ROAD	36+81.28	33.13' LT	5' - 6"	5' - 0"	+0.90%	6' - 6"	7' - 8"
PCR 43	MARION ROAD	44+45.60	18.33' LT	5' - 6"	10' - 0"	+0.38%	6' - 6"	7' - 8"

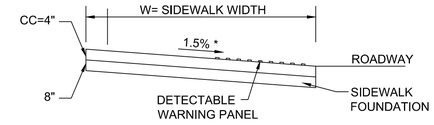
* FACING RAMP FROM ROADWAY, MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS
** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL



PEDESTRIAN CURB RAMP ON NARROW SIDEWALK
NTS

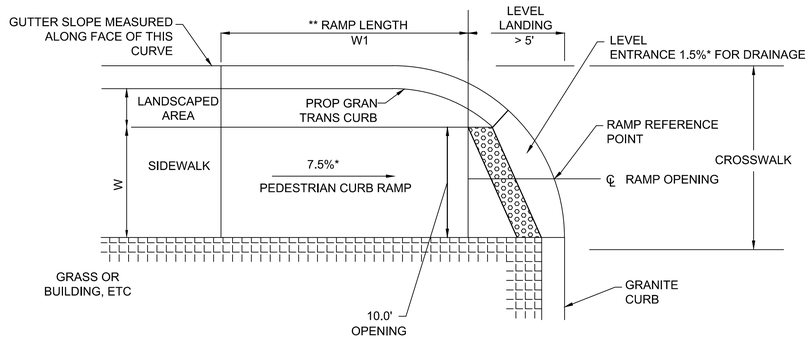


GUTTER SLOPE DIAGRAM



SECTION A-A

SINGLE DIRECTION PEDESTRIAN CURB RAMP WITH LEVEL ENTRANCE - SHARED USE PATH



SINGLE DIRECTION PEDESTRIAN CURB RAMP WITH LEVEL ENTRANCE - SHARED USE PATH
NTS

NOTES:
-* CONSTRUCTION TOLERANCE ± 0.5%
- SEE CONSTRUCTION STANDARD E 107.6.0
** SEE CONSTRUCTION STANDARD E 107.9.0
*** FACING RAMP FROM ROADWAY, MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS

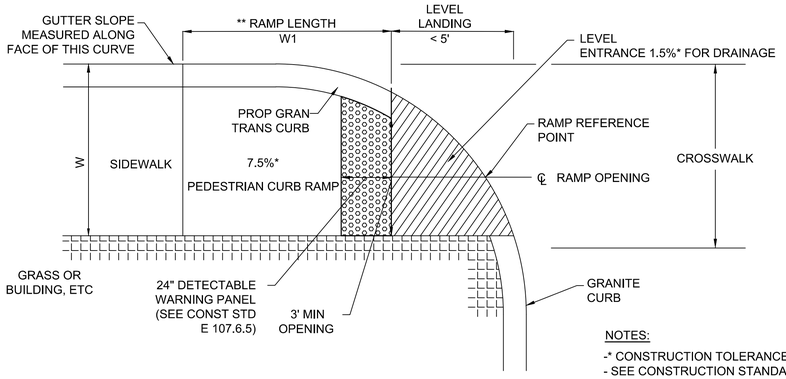
PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	LENGTH OF RAMP*** (W1)
		STATION	OFFSET				
PCR 3	MARION ROAD	9+49.75	25.29' RT	10' - 0"	10' - 0"	+0.56%	3' - 3" **
PCR 4	MARION ROAD	9+77.76	25.29' RT	10' - 0"	10' - 0"	+0.56%	7' - 8"
PCR 15	MARION ROAD	20+86.81	25.22' RT	10' - 0"	10' - 0"	-0.45%	7' - 8"
PCR 16	MARION ROAD	21+21.32	23.49' RT	10' - 0"	10' - 0"	-0.45%	6' - 6"
PCR 21	MARION ROAD	26+59.37	25.22' RT	10' - 0"	10' - 0"	-1.83%	9' - 0"
PCR 22	MARION ROAD	26+90.50	25.17' RT	10' - 0"	10' - 0"	-1.30%	6' - 6"
PCR 25	MARION ROAD	30+46.87	24.15' RT	10' - 0"	10' - 0"	+1.57%	6' - 6"
PCR 26	MARION ROAD	30+78.71	24.04' RT	10' - 0"	10' - 0"	+1.24%	9' - 0"
PCR 29	MARION ROAD	32+26.96	24.04' RT	10' - 0"	10' - 0"	+1.03%	6' - 6"
PCR 30	MARION ROAD	32+81.90	24.04' RT	10' - 0"	10' - 0"	+1.03%	9' - 0"
PCR 37	MARION ROAD	34+79.21	24.05' RT	10' - 0"	10' - 0"	+1.03%	6' - 6"
PCR 38	MARION ROAD	35+26.56	24.05' RT	10' - 0"	10' - 0"	+1.03%	9' - 0""
PCR 41	MARION ROAD	43+72.61	24.13' RT	10' - 0"	10' - 0"	+0.37%	6' - 6"
PCR 45	MARION ROAD	11+61.08	24.59' RT	10' - 0"	10' - 0"	+0.56%	6' - 6"
PCR 46	MARION ROAD	12+01.61	25.81' RT	10' - 0"	10' - 0"	+0.48%	7' - 8"

** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM

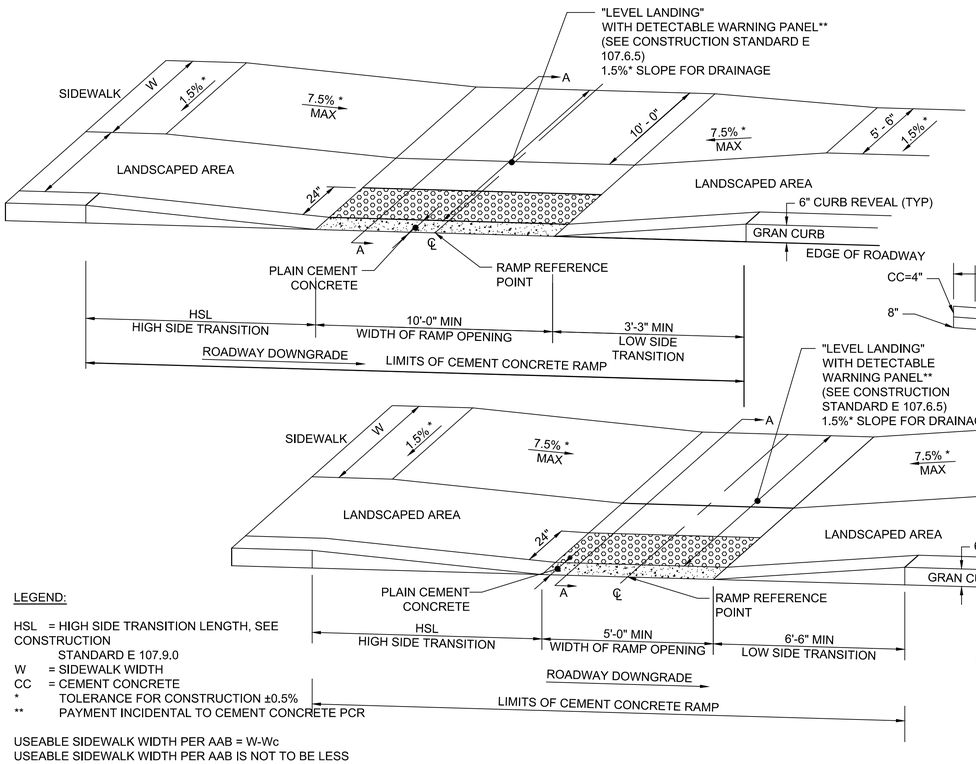
SINGLE DIRECTION PEDESTRIAN CURB RAMP WITH LEVEL ENTRANCE

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	LENGTH OF RAMP*** (W1)
		STATION	OFFSET				
PCR 13	MARION ROAD	20+39.17	25.31' LT	5' - 6"	3' - 0"	-0.28%	7' - 8"
PCR 14	MARION ROAD	20+75.49	24.22' LT	5' - 6"	3' - 0"	-0.44%	6' - 6"
PCR 17	MARION ROAD	24+29.54	19.61' LT	5' - 6"	3' - 0"	-0.49%	7' - 8"
PCR 18	MARION ROAD	24+82.44	19.48' LT	5' - 6"	3' - 0"	-1.29%	6' - 6"
PCR 19	MARION ROAD	25+9.97	19.47' LT	5' - 6"	3' - 0"	-1.72%	9' - 0"
PCR 20	MARION ROAD	25+63.60	19.40' LT	5' - 6"	3' - 0"	-2.34%	6' - 6"
PCR 23	MARION ROAD	29+22.20	26.87' LT	5' - 6"	3' - 0"	+2.41%	6' - 6"
PCR 24	MARION ROAD	29+80.81	28.84' LT	5' - 6"	3' - 0"	+2.25%	11' - 0"
PCR 47	MARION ROAD	9+97.53	19.01' LT	5' - 6"	3' - 0"	+0.28%	6' - 6"
PCR 48	MARION ROAD	9+98.35	19.01' LT	5' - 6"	3' - 0"	+0.46%	7' - 8"
PCR 49	MARION ROAD	17+33.91	29.01' LT	5' - 6"	3' - 0"	+0.65%	6' - 6"
PCR 50	MARION ROAD	17+49.56	29.01' LT	5' - 6"	3' - 0"	+0.49%	7' - 8"



NOTES:
-* CONSTRUCTION TOLERANCE ± 0.5%
- SEE CONSTRUCTION STANDARD M/E 107.6.0
** SEE CONSTRUCTION STANDARD M/E 107.9.0
*** PAYMENT INCIDENTAL TO CEM CONC PCR

SINGLE DIRECTION PEDESTRIAN CURB RAMP WITH LEVEL ENTRANCE
NTS



LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH, SEE CONSTRUCTION STANDARD E 107.9.0
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* TOLERANCE FOR CONSTRUCTION ±0.5%
** PAYMENT INCIDENTAL TO CEMENT CONCRETE PCR

USEABLE SIDEWALK WIDTH PER AAB = W-Wc
USEABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE CONSTRUCTION STANDARD E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

PEDESTRIAN CURB RAMP 2

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)		WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET	LEFT SIDE	RIGHT SIDE			LEFT SIDE	RIGHT SIDE
PCR 2	MARION ROAD	9+21.95	16.00' RT	10' - 0"	5' - 6"	5' - 0"	+0.33%	3' - 10" **	6' - 6"

** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL

PEDESTRIAN CURB RAMP WITH DETECTABLE WARNING PANEL - SHARED USE PATH

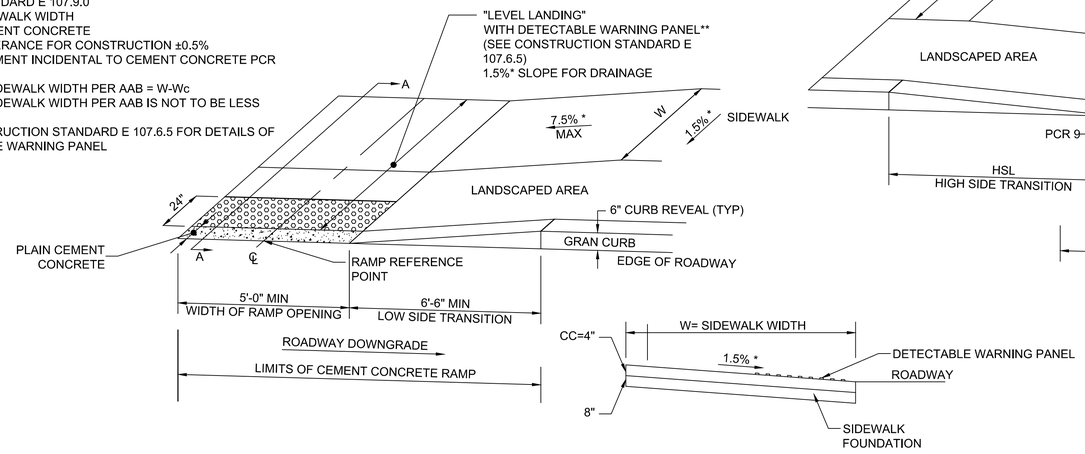
PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
PCR 5	MARION ROAD	14+39.20	16.00' RT	10' - 0""	5' - 0"	+0.48%	7' - 8"	6' - 6"
PCR 31	MARION ROAD	33+16.35	16.00' RT	10' - 0""	5' - 0"	+1.03%	9' - 0"	6' - 6"
PCR 36	MARION ROAD	34+29.25	16.00' RT	10' - 0""	5' - 0"	+1.03%	9' - 0"	6' - 6"

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM

LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH, SEE CONSTRUCTION STANDARD E 107.9.0
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* TOLERANCE FOR CONSTRUCTION ±0.5%
** PAYMENT INCIDENTAL TO CEMENT CONCRETE PCR

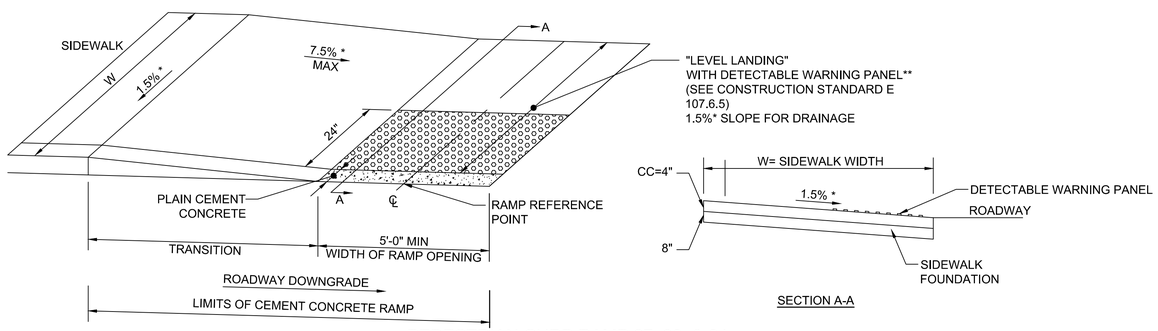
USEABLE SIDEWALK WIDTH PER AAB = W-Wc
USEABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE CONSTRUCTION STANDARD E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL



SECTION A-A

PEDESTRIAN CURB RAMP 7

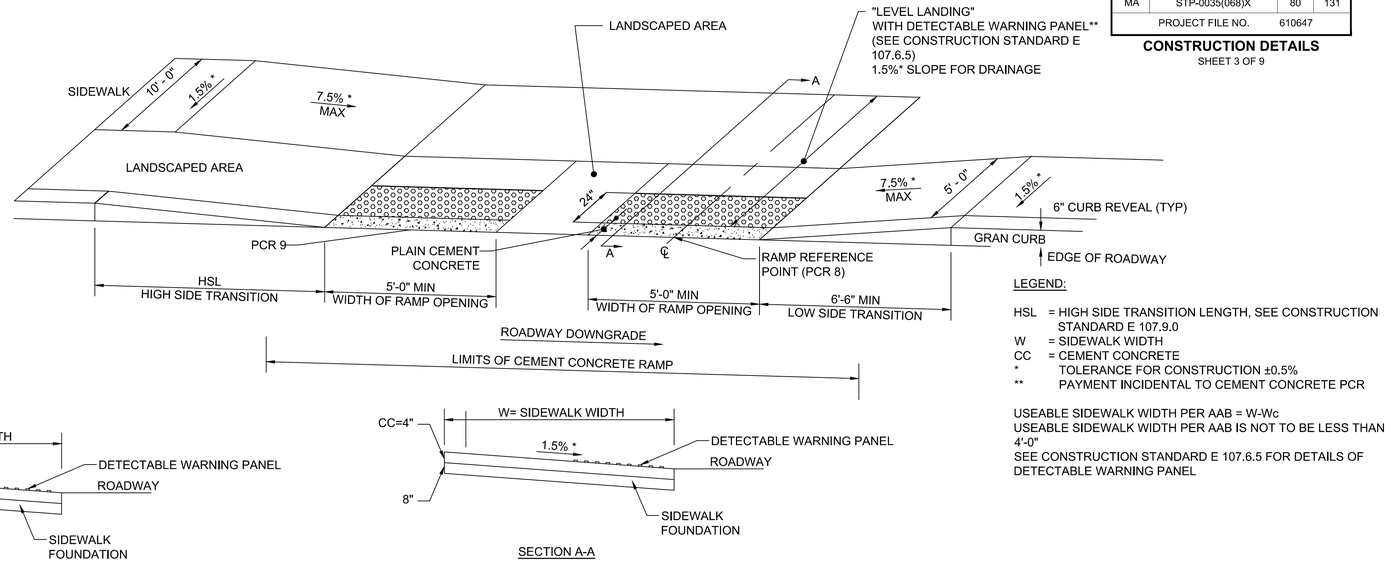
PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*
		STATION	OFFSET				RIGHT SIDE
PCR 7	MARION ROAD	14+78.32	39.80' RT	10' - 0""	10' - 0"	+1.25%	6' - 6"



SECTION A-A

PEDESTRIAN CURB RAMP 27, 33, & 34
NTS

PEDESTRIAN CURB RAMP 8 & 9



SECTION A-A

LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH, SEE CONSTRUCTION STANDARD E 107.9.0
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* TOLERANCE FOR CONSTRUCTION ±0.5%
** PAYMENT INCIDENTAL TO CEMENT CONCRETE PCR

USEABLE SIDEWALK WIDTH PER AAB = W-Wc
USEABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE CONSTRUCTION STANDARD E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

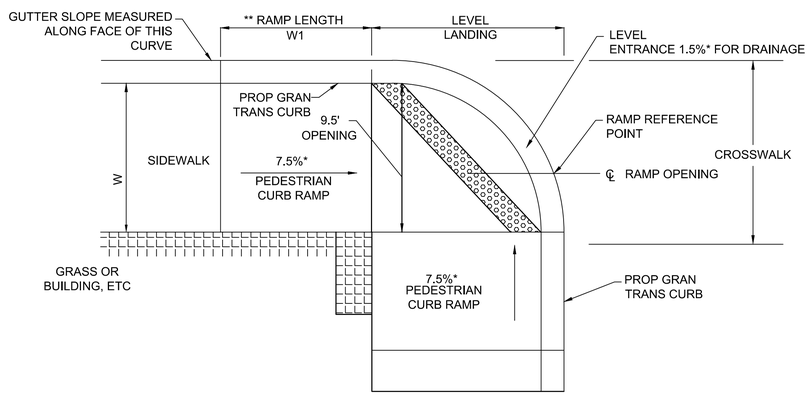
PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)		WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET	LEFT SIDE	RIGHT SIDE			LEFT SIDE	RIGHT SIDE
PCR 8	MARION ROAD	15+34.67	43.90' RT	-	5' - 6"	10' - 0"	+0.45%	-	6' - 6"
PCR 9	MARION ROAD	15+55.19	27.84' RT	10' - 0"	-	10' - 0"	+0.45%	7' - 8"	-

PEDESTRIAN CURB RAMP 27, 33 & 34

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*
		STATION	OFFSET				
PCR 27	MARION ROAD	31+95.59	30..58' LT	5' - 6"	5' - 0"	-0.38%	6' - 6"
PCR 33	MARION ROAD	33+42.90	35.06' LT	5' - 6"	5' - 0"	+0.87%	6' - 6"
PCR 34	MARION ROAD	34+03.83	35.35' LT	5' - 6"	5' - 0"	+0.30%	3' - 10" **

* FACING RAMP FROM ROADWAY. MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS
** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM

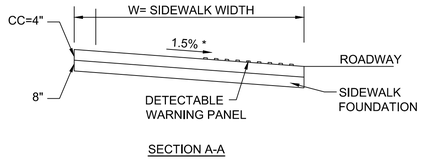


NOTES:
-* CONSTRUCTION TOLERANCE ± 0.5%
** SEE CONSTRUCTION STANDARD E 107.9.0

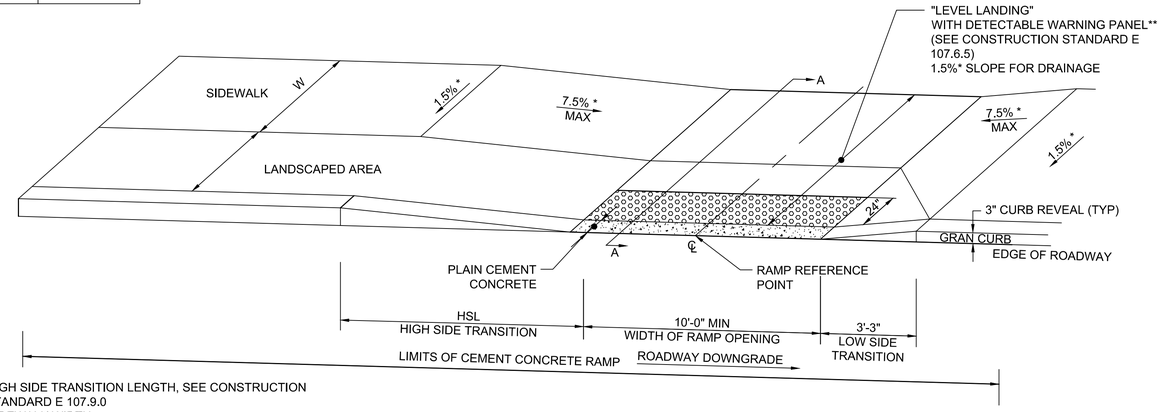
SINGLE DIRECTION PEDESTRIAN CURB RAMP WITH LEVEL ENTRANCE - SHARED USE PATH
NTS

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
PCR 42	MARION ROAD	44+17.84	25.33' RT	5' - 6"	5' - 0"	+0.38%	6' - 6"	3' - 10"**

** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL



SECTION A-A



LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH, SEE CONSTRUCTION STANDARD E 107.9.0
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* TOLERANCE FOR CONSTRUCTION ±0.5%
** PAYMENT INCIDENTAL TO CEMENT CONCRETE PCR

USEABLE SIDEWALK WIDTH PER AAB = W-Wc
USEABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE CONSTRUCTION STANDARD E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

PEDESTRIAN CURB RAMP 44

PCR #	BASELINE NAME	RAMP REFERENCE POINT		WIDTH OF SIDEWALK (W)	WIDTH OF RAMP MIN 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH*	
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE
PCR 44	MARION ROAD	44+43.55	18.31' RT	10' - 0""	5' - 0"	+0.38%	7' - 8"	3' - 3" **

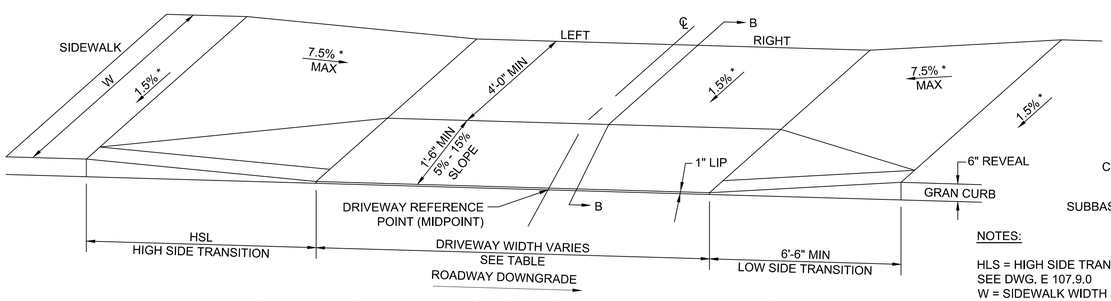
* FACING RAMP FROM ROADWAY. MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS
** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM

CEMENT CONCRETE SIDEWALK THROUGH DRIVEWAY WITHOUT CURB RETURNS

DRIVEWAY #	BASELINE NAME	DRIVEWAY REFERENCE POINT		WIDTH OF DRIVEWAY	WIDTH OF SIDEWALK AT DRIVEWAY	PATH OF TRAVEL MIN 4'-0"	TRANSITION LENGTH*		ROADWAY GUTTER SLOPE (% +/-)	DRIVEWAY SLOPE
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE		
DWY 1	MARION ROAD	6+66.09	20.56' RT	16.00'	5' - 7"	4' - 0"	7' - 8"	6' - 6"	+0.60%	3.00%
DWY 2	MARION ROAD	7+32.56	21.59' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.20%	5.00%
DWY 3	MARION ROAD	7+76.40	20.28' LT	16.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6""	-0.20%	3.00%
DWY 4	MARION ROAD	8+00.57	17.95' RT	40.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	-0.41%	3.00%
DWY 6	MARION ROAD	10+93.96	16.24' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.56%	5.00%
DWY 8	MARION ROAD	11+62.50	17.18' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.56%	5.00%
DWY 9	MARION ROAD	12+05.57	18.06' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.48%	5.00%
DWY 11	MARION ROAD	13+26.84	20.91' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.48%	3.00%
DWY 12	MARION ROAD	14+60.78	24.50' LT	16.00'	5' - 6"	4' - 0"	3' - 3" **	7' - 8"	+0.48%	5.00%
DWY 13	MARION ROAD	15+12.10	25.40' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.32%	5.00%
DWY 14	SWIFTS BEACH ROAD	100+92.86	16.00' LT	40.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.57%	3.00%
DWY 15	SWIFTS BEACH ROAD	101+62.55	15.98' LT	20.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.57%	3.00%
DWY 16	MARION ROAD	16+25.15	26.00' LT	16.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.43%	3.00%
DWY 21	MARION ROAD	19+71.35	23.73' LT	18.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.09%	3.00%
DWY 23	MARION ROAD	21+97.38	16.05' LT	32.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.45%	3.00%
DWY 25	MARION ROAD	22+59.67	16.00' LT	16.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.45%	5.00%
DWY 26	MARION ROAD	23+10.76	16.00' LT	16.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.45%	5.00%
DWY 30	MARION ROAD	23+70.99	15.98' LT	12.00'	5' - 6"	4' - 0"	7' - 8"	6' - 6"	-0.45%	3.00%
DWY 31	MARION ROAD	40+33.26	16.67' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.79%	3.00%
DWY 32	MARION ROAD	41+22.84	16.00' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.60%	5.00%
DWY 33	MARION ROAD	41+78.90	16.00' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.49%	3.00%
DWY 34	MARION ROAD	42+39.69	16.00' LT	14.28'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.37%	3.00%
DWY 35	MARION ROAD	43+00.78	16.00' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.37%	5.00%
DWY 36	MARION ROAD	43+60.23	16.00' LT	16.00'	5' - 6"	4' - 0"	6' - 6"	7' - 8"	+0.37%	5.00%

* FACING RAMP FROM ROADWAY. MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS
** SEE CONSTRUCTION STANDARD E 107.9.0 FOR TREATMENT OF 3" REVEAL



CEMENT CONCRETE SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS
NTS

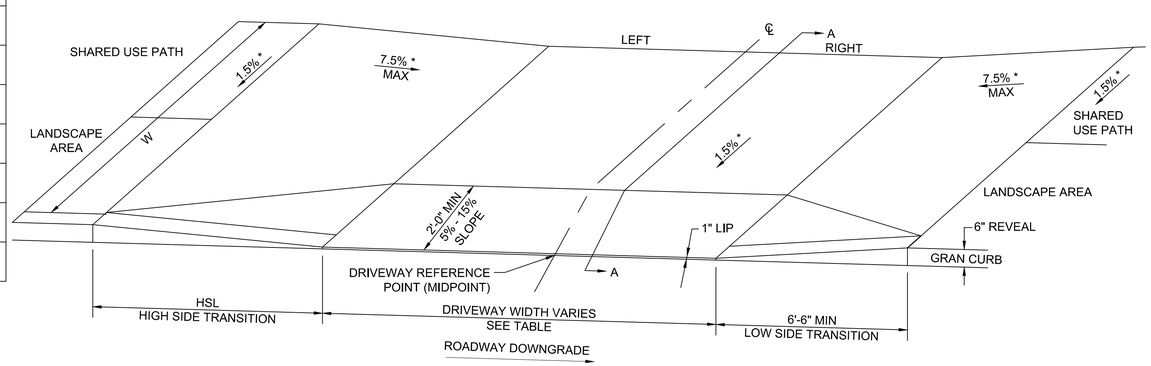
NOTES:

HLS = HIGH SIDE TRANSITION LENGTH,
SEE DWG. E 107.9.0
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* TOLERANCE FOR CONSTRUCTION ±0.5%

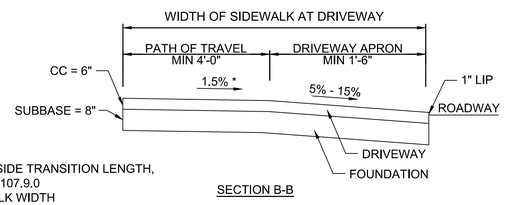
CEMENT CONCRETE SIDEWALK THROUGH DRIVEWAY WITHOUT CURB RETURNS - SHARED USE PATH

DRIVEWAY #	BASELINE NAME	DRIVEWAY REFERENCE POINT		WIDTH OF DRIVEWAY	WIDTH OF SIDEWALK AT DRIVEWAY	PATH OF TRAVEL MIN 3'-0"	TRANSITION LENGTH*		ROADWAY GUTTER SLOPE (% +/-)	DRIVEWAY SLOPE
		STATION	OFFSET				LEFT SIDE	RIGHT SIDE		
DWY 17	MARION ROAD	16+30.56	16.00' RT	30.00'	15' - 0"	10' - 0"	6' - 6"	7' - 8"	-0.40%	3.00%
DWY 18	MARION ROAD	16+97.05	16.00' RT	16.00'	15' - 0"	10' - 0"	6' - 6"	7' - 8"	-0.14%	3.00%
DWY 20	MARION ROAD	19+40.00	16.00' RT	16.00'	15' - 0"	10' - 0"	7' - 8"	6' - 6"	+0.01%	3.00%
DWY 22	MARION ROAD	20+06.82	16.00' RT	16.00'	15' - 0"	10' - 0"	6' - 6"	7' - 8"	-0.20%	3.00%
DWY 24	MARION ROAD	22+44.48	16.00' RT	38.25'	14' - 0"	10' - 0"	6' - 6"	7' - 8"	-0.45%	3.00%
DWY 27	MARION ROAD	23+37.46	16.00' RT	16.00'	15' - 0"	10' - 0"	6' - 6"	7' - 8"	-0.45%	3.00%
DWY 28	MARION ROAD	25+00.04	16.00' RT	16.00'	15' - 0"	10' - 0"	6' - 6"	9' -0"	-1.55%	3.00%
DWY 29	MARION ROAD	28+42.13	16.00' RT	16.00'	15' - 0"	10' - 0"	9' - 0"	6' - 6"	+1.11%	3.00%
DWY 37	MARION ROAD	38+14.62	16.00' RT	40.00'	14' - 0"	10' - 0"	7' - 8"	6' - 6"	+1.00%	3.00%
DWY 38	MARION ROAD	40+06.66	16.00' RT	40.00'	14' - 0"	10' - 0"	7' - 8"	6' - 6"	+0.84%	3.00%
DWY 39	MARION ROAD	42+93.44	16.00' RT	40.00'	14' - 0"	10' - 0"	7' - 8"	6' - 6"	+0.37%	3.00%

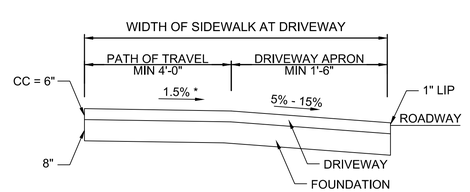
* FACING RAMP FROM ROADWAY. MEASURED AT BACK OF SIDEWALK FOR RAMPS ON A RADIUS
NOTE: DWY 7 & DWY 10 INTENTIONALLY NOT USED.



CEMENT CONCRETE SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS - SHARED USE PATH
NTS

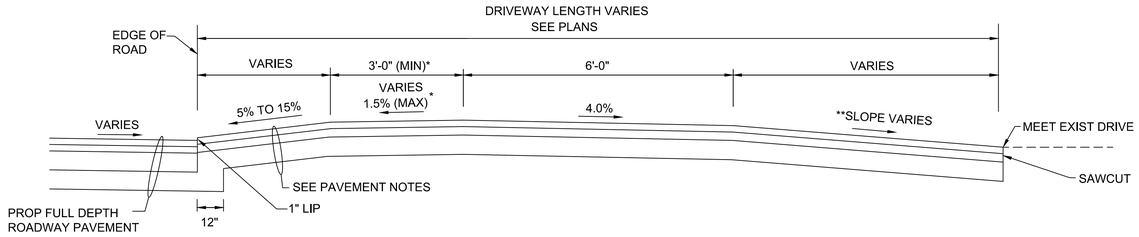


SECTION B-B

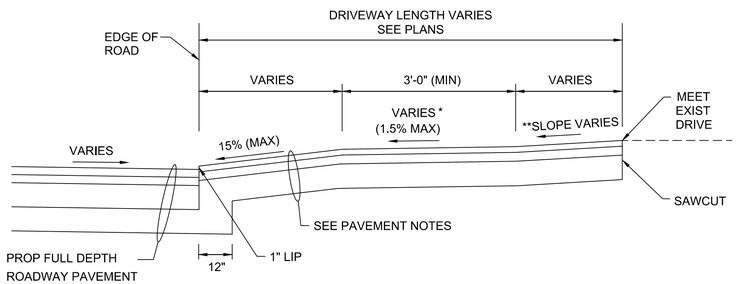


SECTION A-A

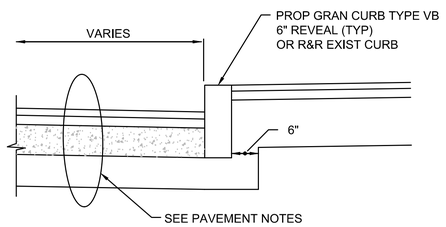
610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM



TYPICAL DRIVEWAY CONSTRUCTION (FILL SECTION)
NTS



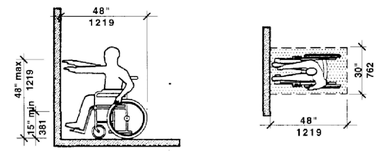
TYPICAL DRIVEWAY CONSTRUCTION (CUT SECTION)
NTS



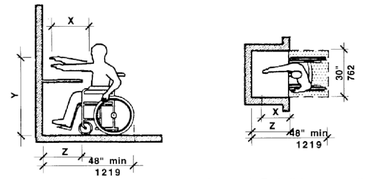
GRANITE CURB SET IN FULL DEPTH PAVEMENT
LESS THAN 4 FEET WIDE
NTS

FORWARD REACH

If the *clear floor space* only allows forward approach to an object, the maximum high forward reach allowed shall be 48 inches (48" = 1219mm) (**See Fig. 6k**). The minimum low forward reach is 15 inches (15" = 381mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in **Fig. 6l**.



High Forward Reach Limit
Figure 6k

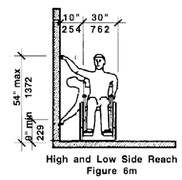


NOTE: X shall be less than or equal to 25" (635 mm). Z shall be greater than X. When X is less than 20" (508 mm), then Y shall be 48" (1219 mm) max. When X is 20" to 25" (508 to 635 mm), then Y shall be 44" (1118 mm) max.

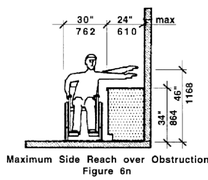
Maximum Forward Reach over an Obstruction
Figure 6l

SIDE REACH

If the *clear floor space* allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 inches (54" = 1372mm) and the low side reach shall be no less than nine inches (9" = 229mm) above the floor (**See Fig. 6m**). If the side reach is over an obstruction, the reach and clearances shall be as shown in **Fig. 6n**.



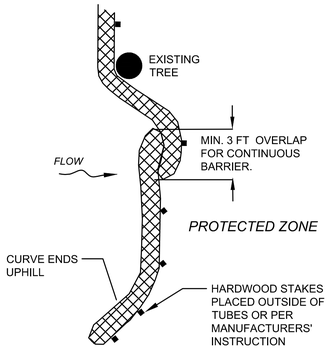
High and Low Side Reach
Figure 6m



Maximum Side Reach over Obstruction
Figure 6n

PEDESTRIAN ACTIVATED CONTROLS
NTS

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM



PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.

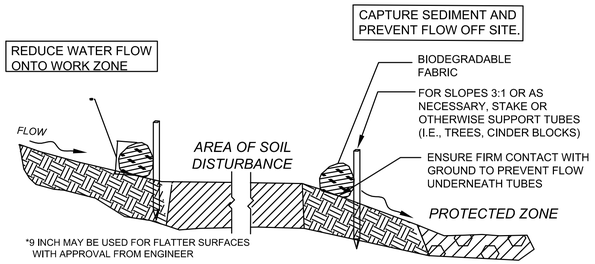
PLACE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

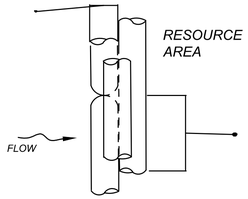
PLAN VIEW

SEDIMENT BARRIERS
NTS

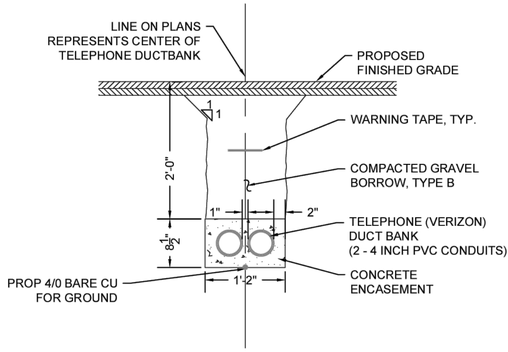


SECTION

SEDIMENT BARRIERS - COMPOST FILTER TUBES
NTS



PLAN VIEW



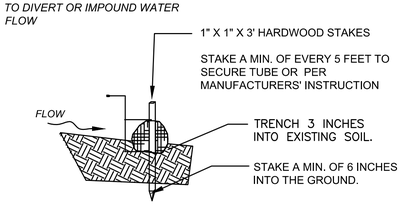
TELEPHONE TRENCH
NTS

UTILITY TRENCH NOTES:

1. ALL CONSTRUCTION OF DUCT BANKS INCLUDING TRENCH, EXCAVATION, AND BACKFILL SHALL CONFORM TO UTILITY DETAILS AND SPECIFICATIONS.
2. FOR ALL CONDUITS ENCASED IN CONCRETE, USE PLASTIC SPACERS TO MAINTAIN CONDUIT SPACING. SPACERS SHALL MEET UTILITY SPECIFICATIONS FOR DESIGN AND SPACING.
3. ALL TRENCH EXCAVATION ACTIVITIES SHALL COMPLY WITH ALL APPROPRIATE OSHA STANDARDS.
4. EACH DUCT BANK SHALL HAVE ASSOCIATED WARNING TAPE INSTALLED. TELEPHONE DUCT BANKS WILL HAVE 6 INCH, COLOR ORANGE, DETECTABLE METALLIC WARNING TAPE PLACED 12 INCHES ABOVE EACH CONCRETE ENCASEMENT.
5. A UTILITY COMPANY REPRESENTATIVE FROM VERIZON SHALL BE PRESENT FOR ALL TELEPHONE CONDUIT INSTALLED.
6. A MINIMUM OF 12 INCHES OF SEPARATION IS REQUIRED FOR CROSSINGS WITH GAS, WATER, SEWER AND DRAINAGE.
7. CONDUITS SHALL BE BLOWN CLEAN USING COMPRESSED AIR. RUN MANDREL THRU EACH CONDUIT TO CONFIRM VIABLE PATHWAY.
8. WOVEN POLYESTER MULE TAPE WITH MINIMUM STRENGTH OF 2500 LB TENSILE STRENGTH TO BE INSTALLED WITHIN EACH CONDUIT.

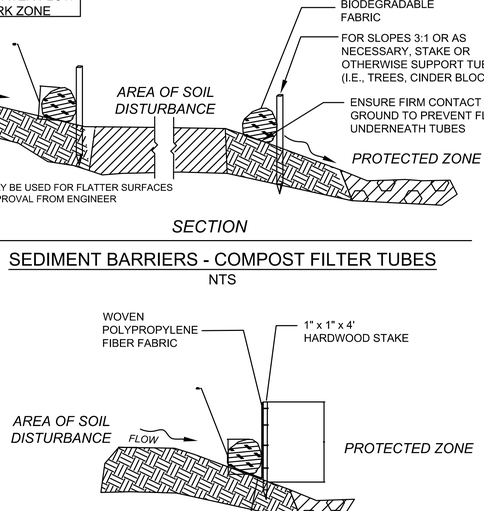
12 INCH STRAW WATTLE

TO BE USED ONLY ON FLAT SURFACES WITH LOW FLOW TO DIVERT OR IMPOUND WATER FLOW



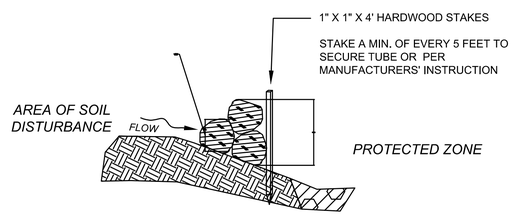
SECTION

SEDIMENT BARRIERS - STRAW WATTLE
NTS



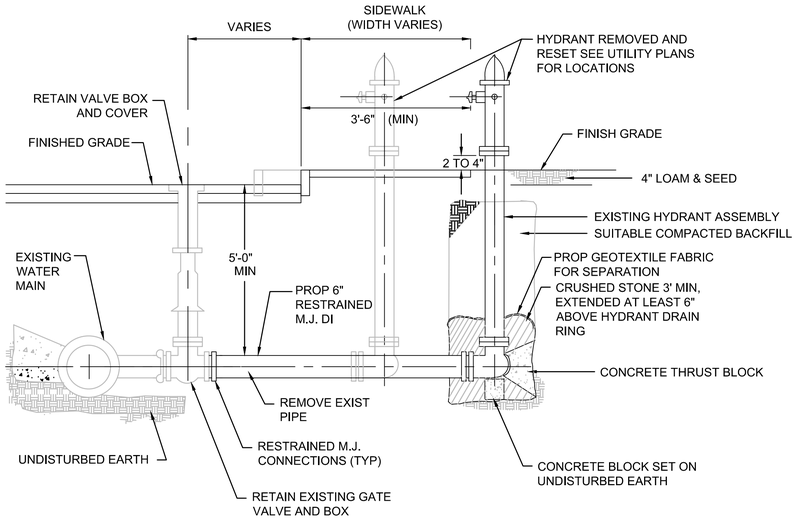
SECTION

COMPOST FILTER TUBE & SILT FENCE
NTS

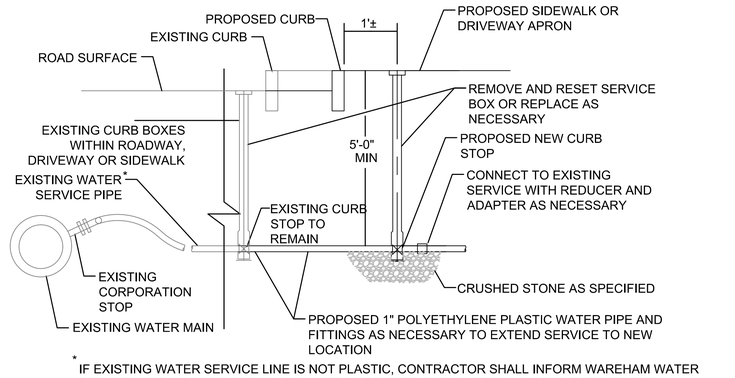


SECTION

COMPOST FILTER TUBE (SLOPES 2:1 OR STEEPER)
NTS

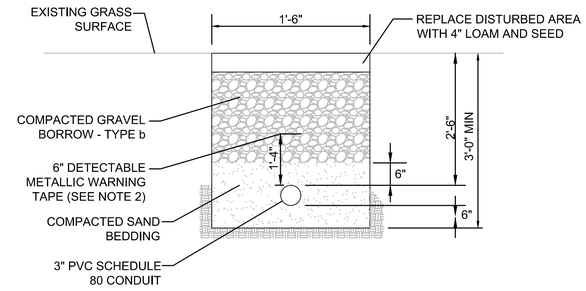


DETAIL FOR HYDRANT REMOVED AND RESET
NTS

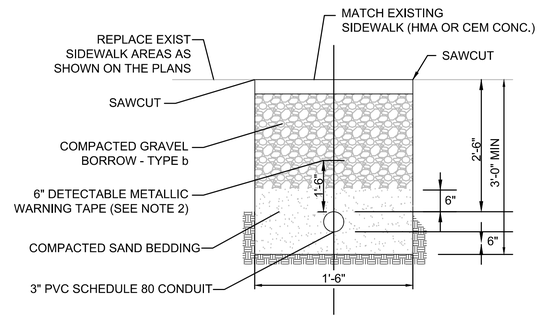


* IF EXISTING WATER SERVICE LINE IS NOT PLASTIC, CONTRACTOR SHALL INFORM WAREHAM WATER DEPARTMENT. NO CONNECTION SHALL BE MADE UNTIL THE WAREHAM WATER DEPARTMENT DETERMINES IF THE EXISTING LINE IS SUITABLE TO BE EXTENDED OR MUST BE REPLACED TO THE MAIN.

CURB STOP RELOCATION DETAIL
NTS

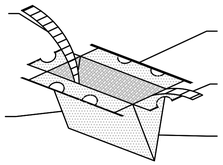


CONDUIT UNDER GRASS AREAS
NTS

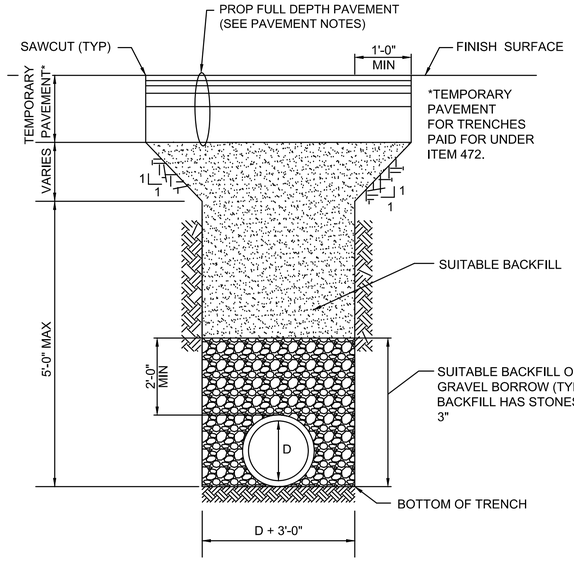


CONDUIT UNDER SIDEWALK
NTS

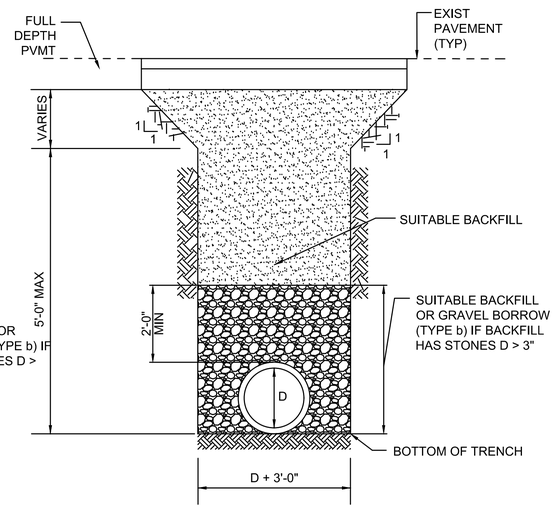
610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM



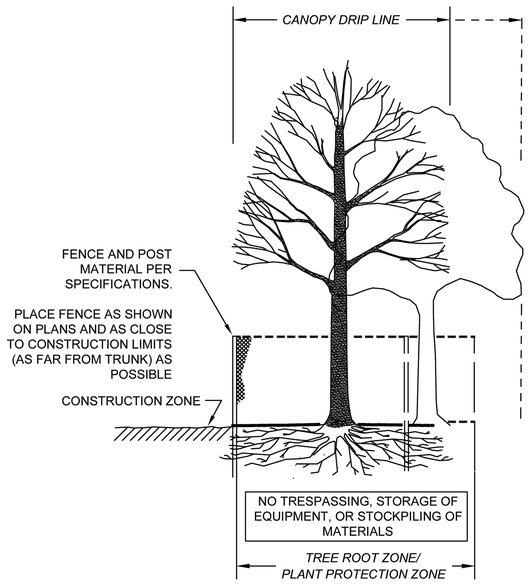
SILT SACK
NTS



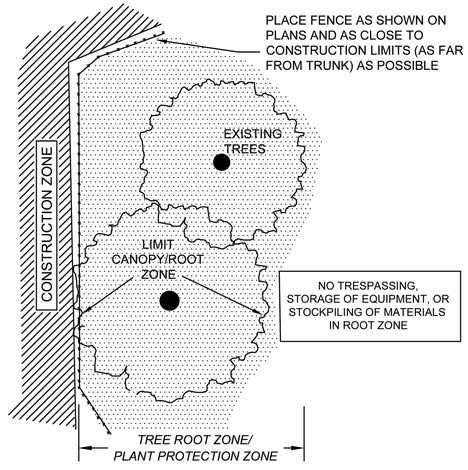
TRENCH DETAIL IN PAVEMENT MICROMILLING AND OVERLAY AREA
NTS



TRENCH DETAIL AREAS OF FULL DEPTH PAVEMENT
NTS

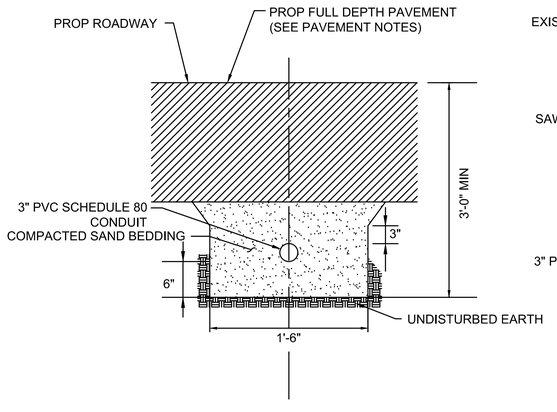


SECTION - FENCE PROTECTION OF ROOT ZONE

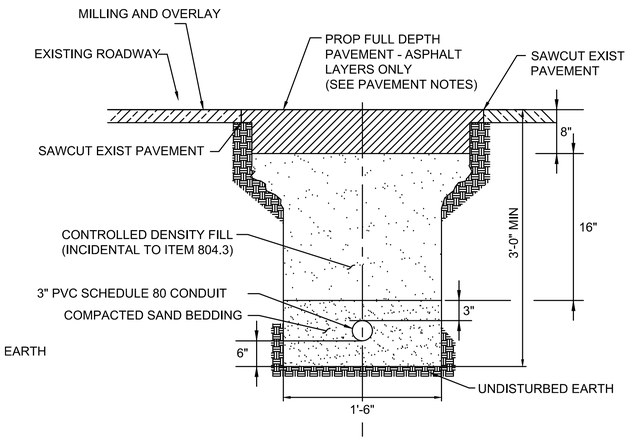


PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

TREE PROTECTION - ROOT ZONE
NOT TO SCALE



CONDUIT CROSSING FULL DEPTH PAVEMENT ROADWAY
(NO CONTROLLED DENSITY FILL)
N.T.S.



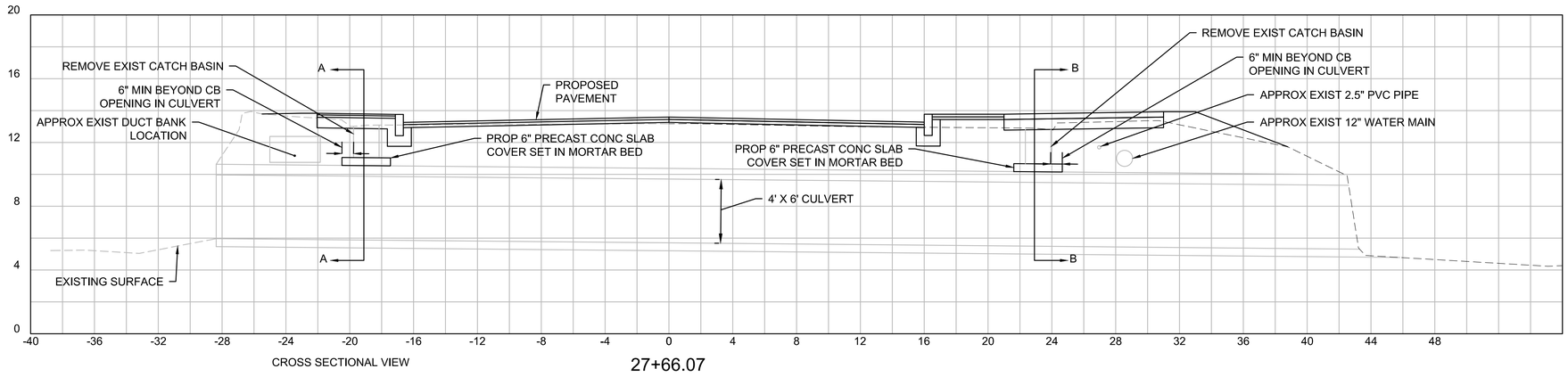
CONDUIT CROSSING MILLING AND OVERLAY ROADWAY
WITH CONTROLLED DENSITY FILL
N.T.S.

WAREHAM
MARION ROAD (ROUTE 6)

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MA	STP-0035(068)X	86	131
	PROJECT FILE NO.	610647	

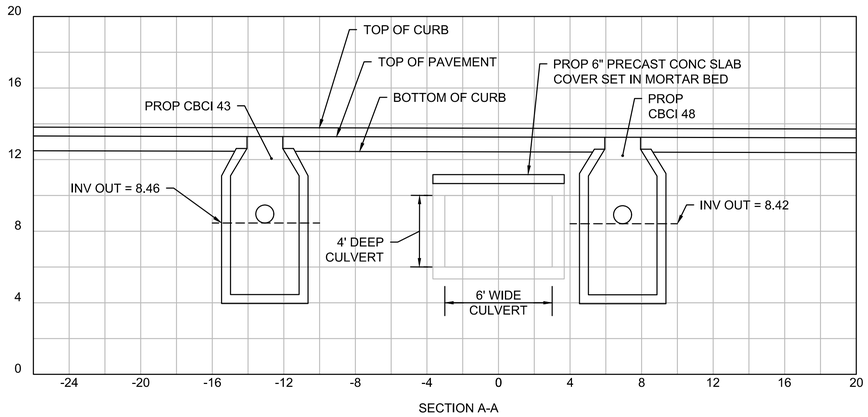
CONSTRUCTION DETAILS
SHEET 9 OF 9

610647_HD13(CONSTR-DET_01).DWG Plotted on 3-Mar-2026 8:41 AM

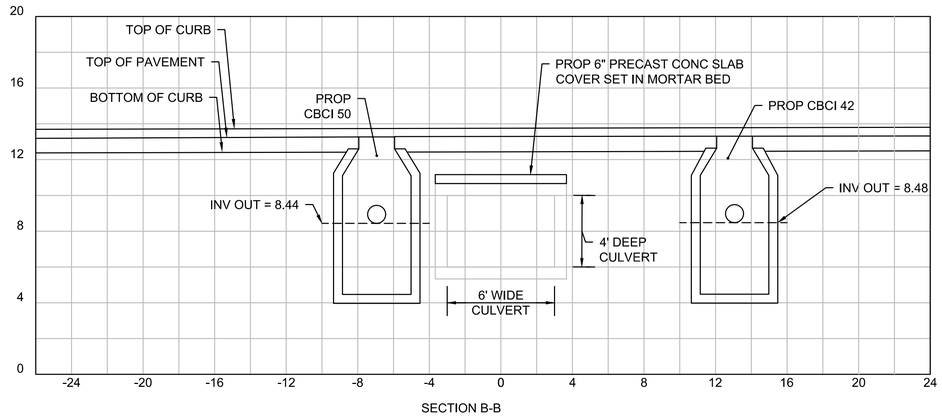


CROSS SECTIONAL VIEW

27+66.07



SECTION A-A

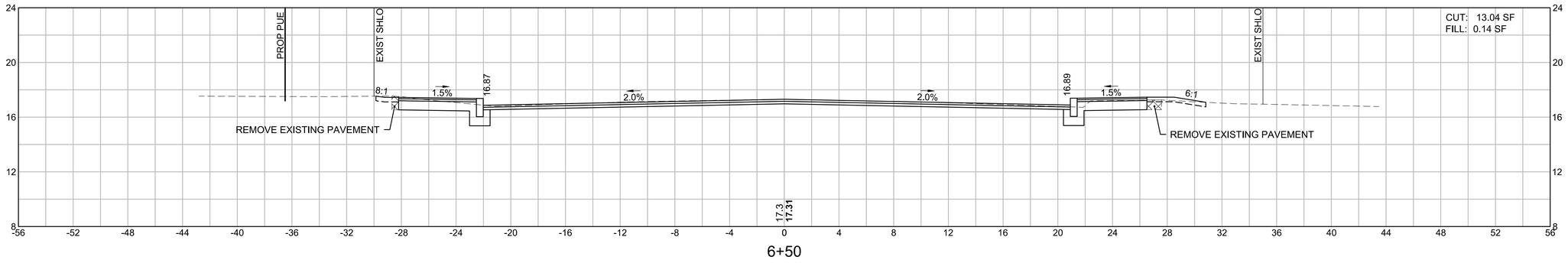


SECTION B-B

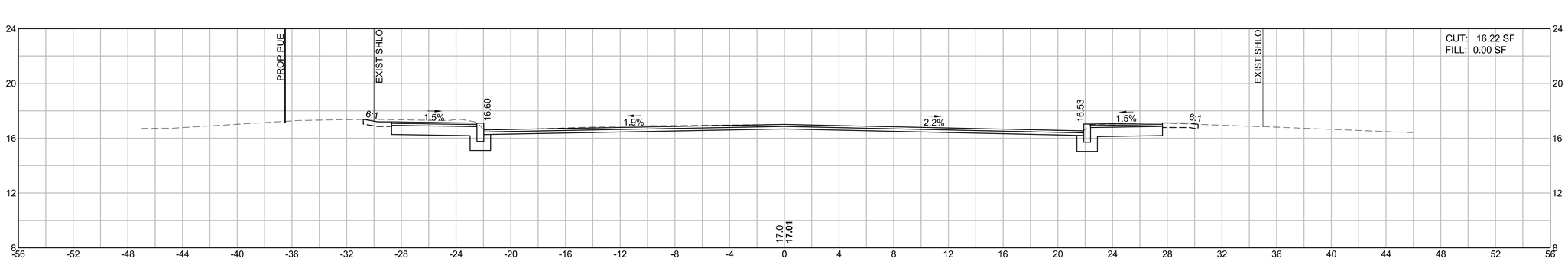
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	87	131
	PROJECT FILE NO. 610647		

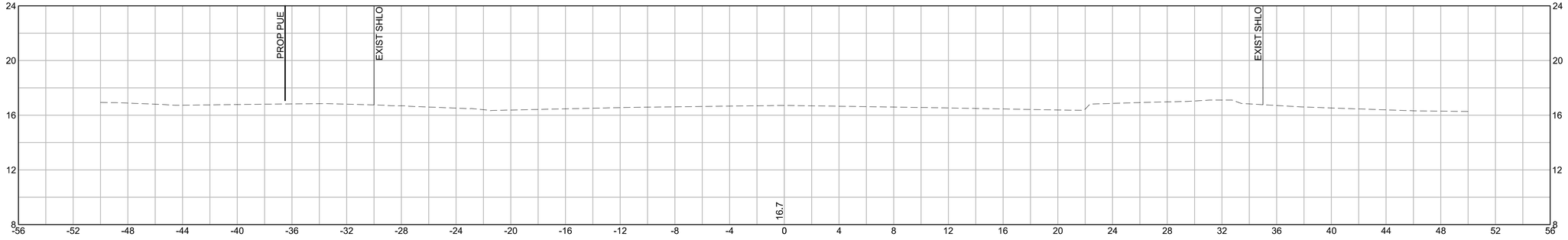
CROSS SECTIONS - MARION ROAD
STA 5+50 TO 6+50



6+50



6+00



5+50

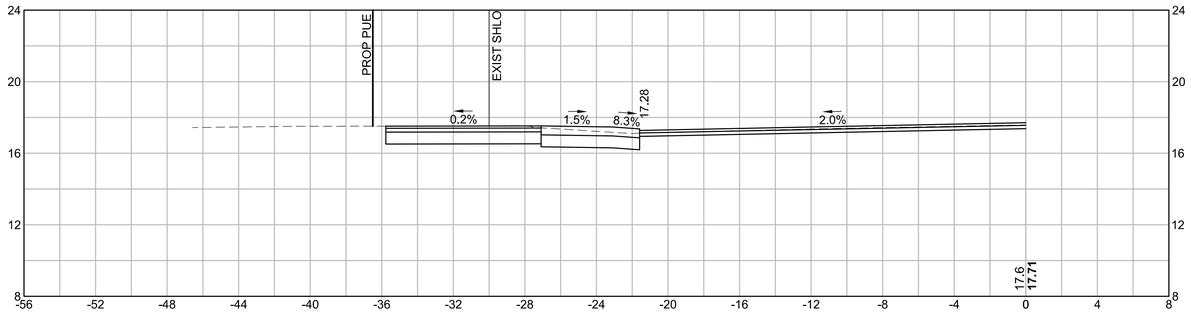
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:42 AM

WAREHAM
MARION ROAD (ROUTE 6)

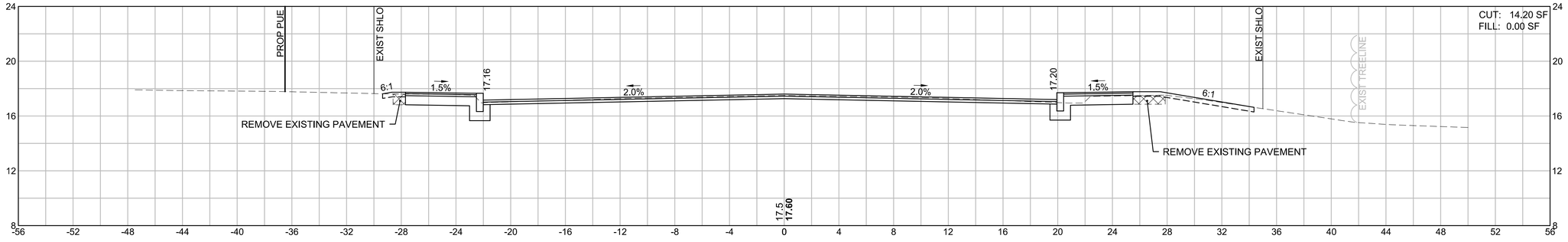
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	88	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 6+68 TO 7+33

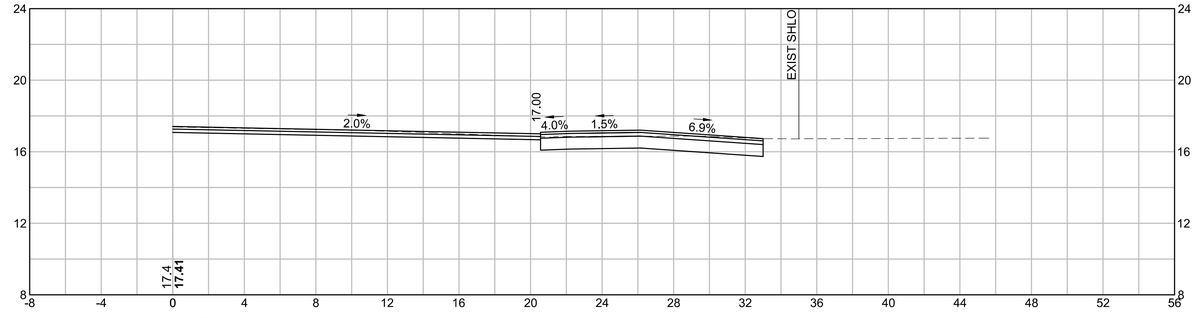
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:42 AM



7+32.74



7+00

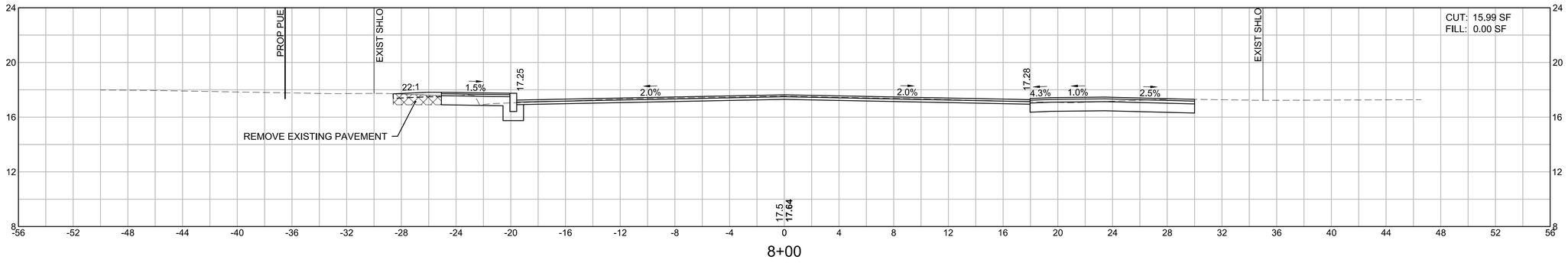


6+67.97

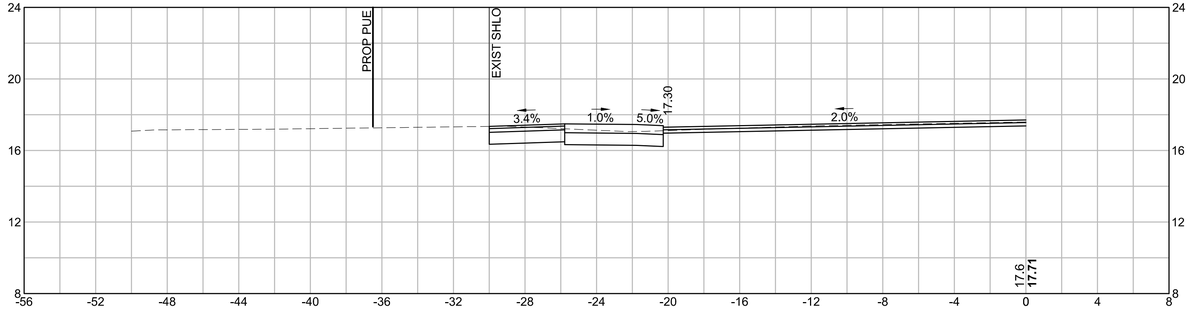
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	89	131
	PROJECT FILE NO. 610647		

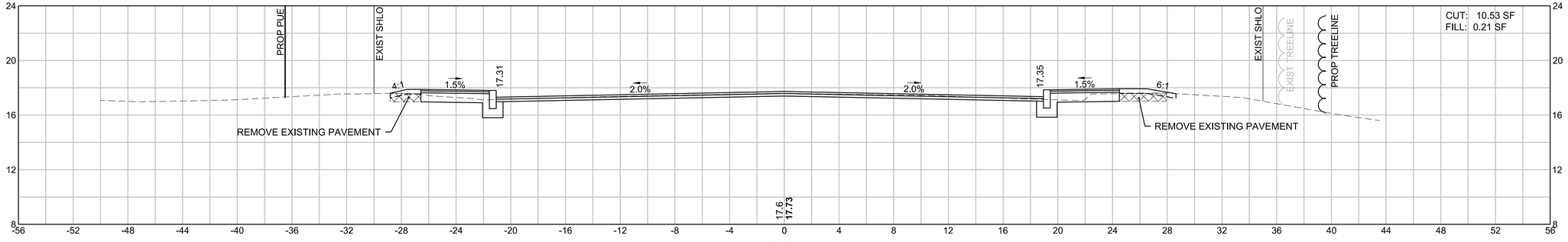
CROSS SECTIONS - MARION ROAD
STA 7+50 TO 8+00



8+00



7+76.42



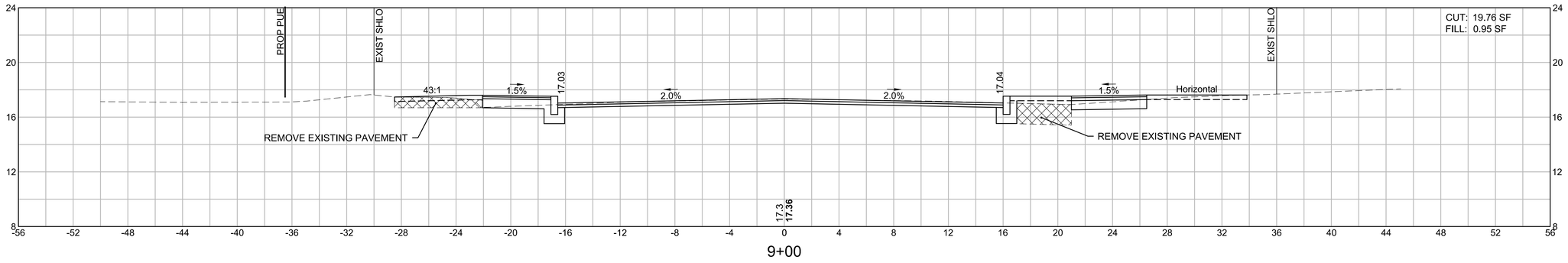
7+50

610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:42 AM

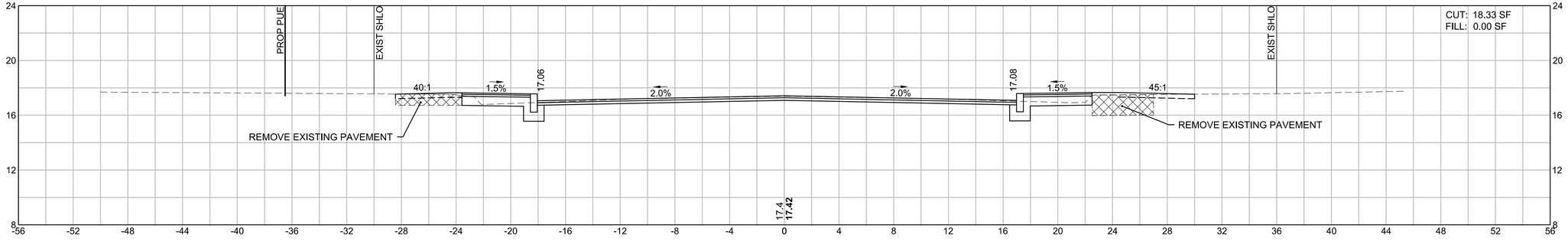
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	90	131
	PROJECT FILE NO. 610647		

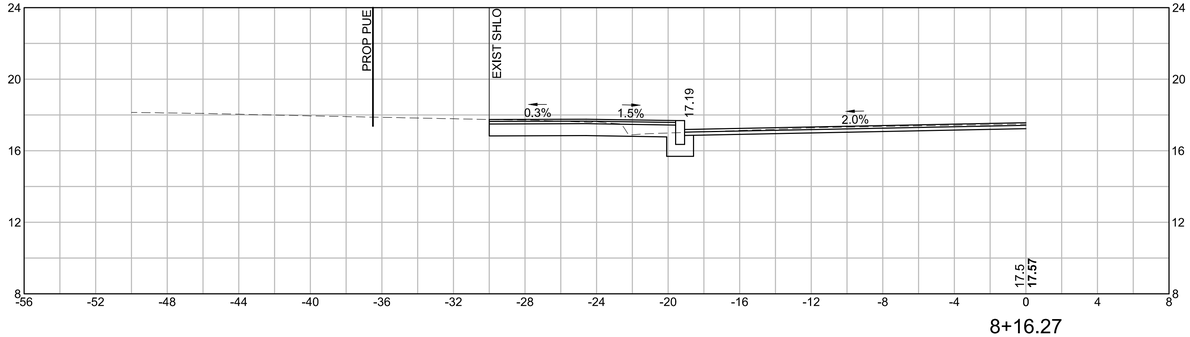
CROSS SECTIONS - MARION ROAD
STA 8+16 TO 9+00



9+00



8+50



8+16.27

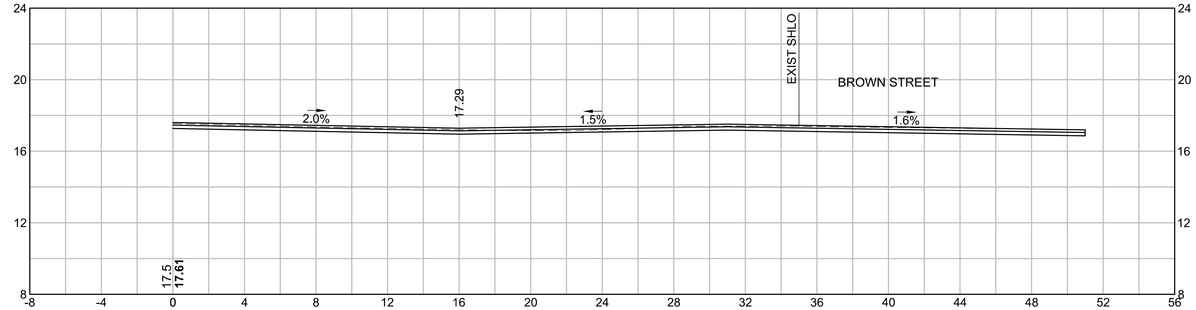
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:42 AM

WAREHAM
MARION ROAD (ROUTE 6)

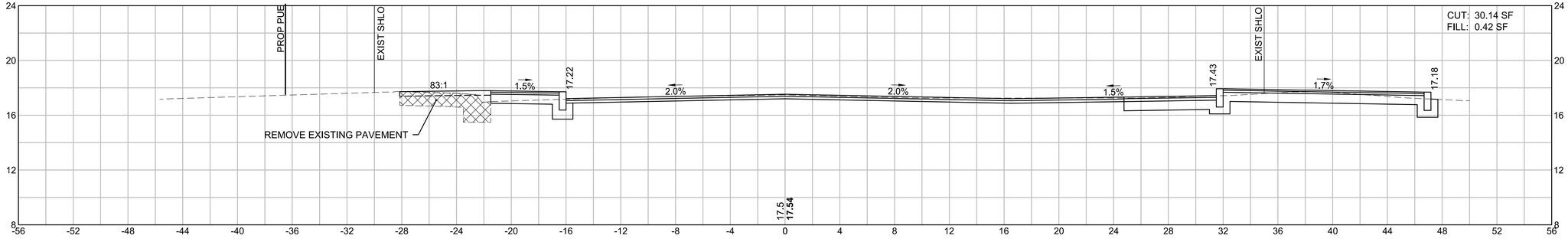
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	91	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 9+07 TO 9+63

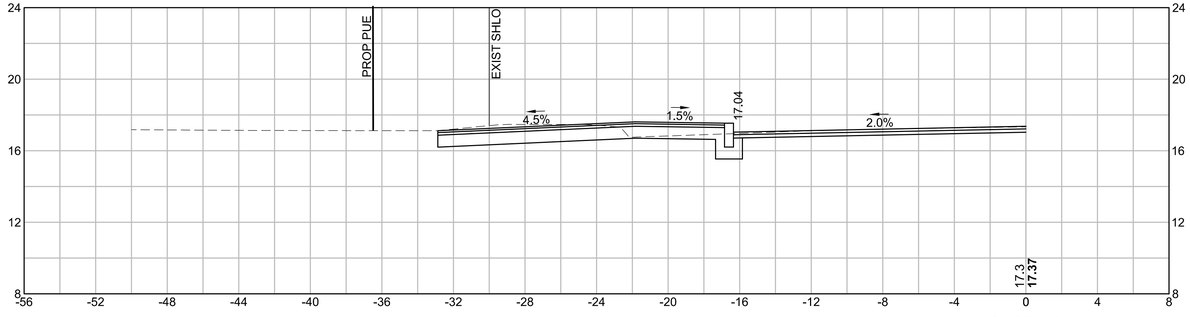
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:42 AM



9+62.72



9+50



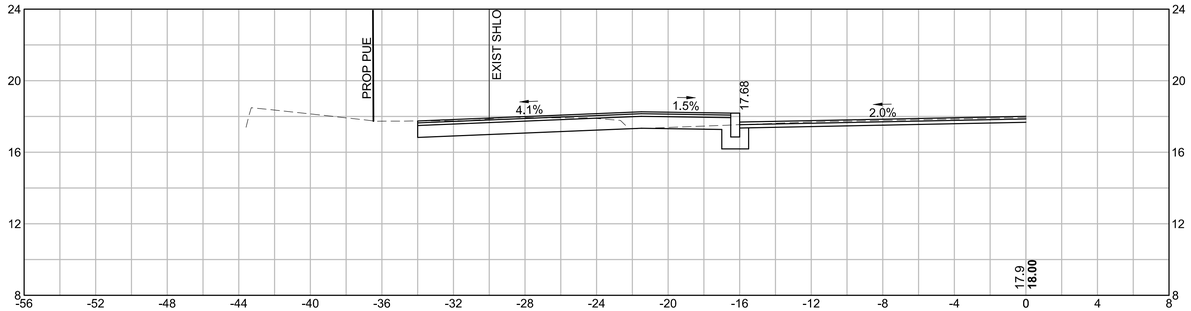
9+07.45

WAREHAM
MARION ROAD (ROUTE 6)

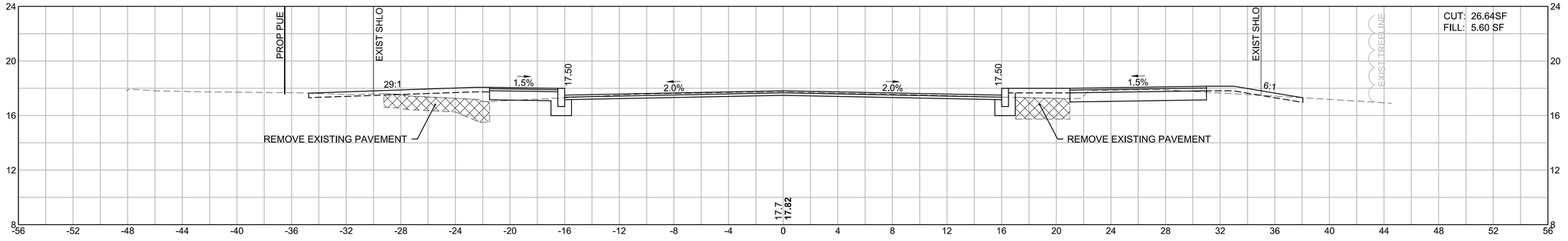
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	92	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 9+89 TO 10+34

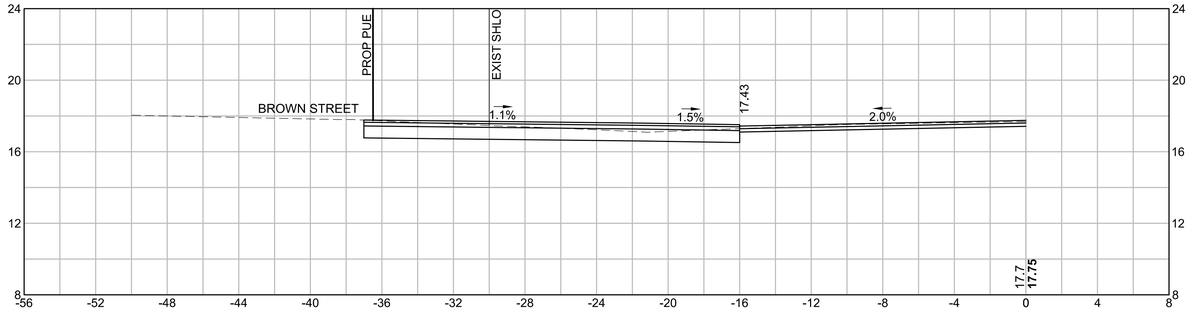
Plotted on 3-Mar-2026 8:42 AM
610647_HD14(X-SECTIONS_MARION).DWG



10+34.03



10+00

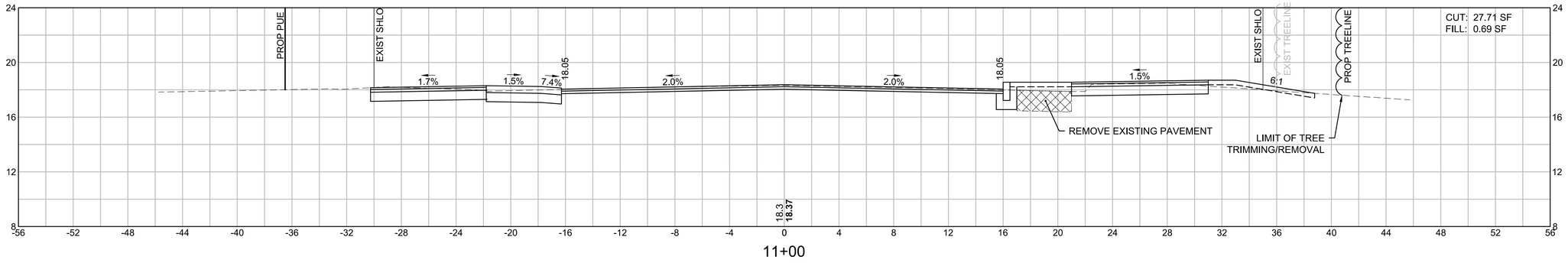


9+88.94

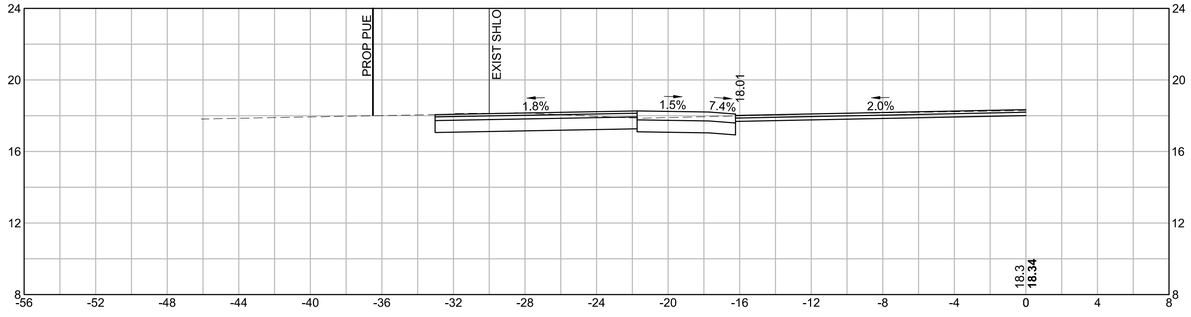
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	93	131
	PROJECT FILE NO.	610647	

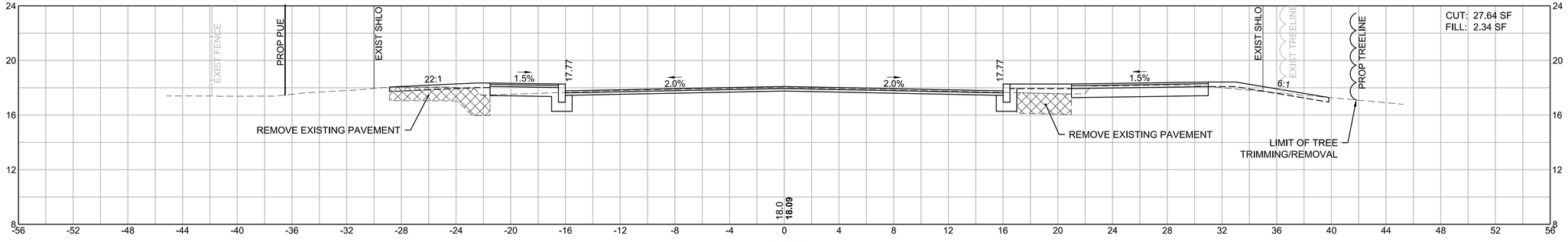
CROSS SECTIONS - MARION ROAD
STA 10+50 TO 11+00



11+00



10+93.97



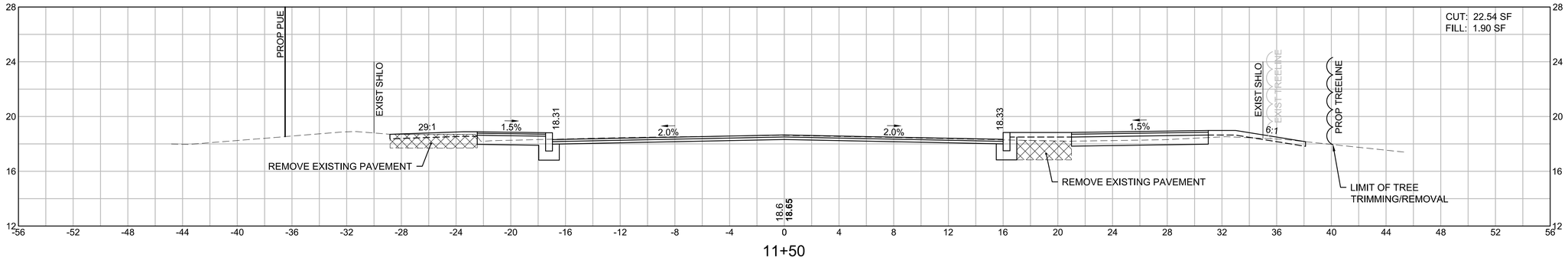
10+50

610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM

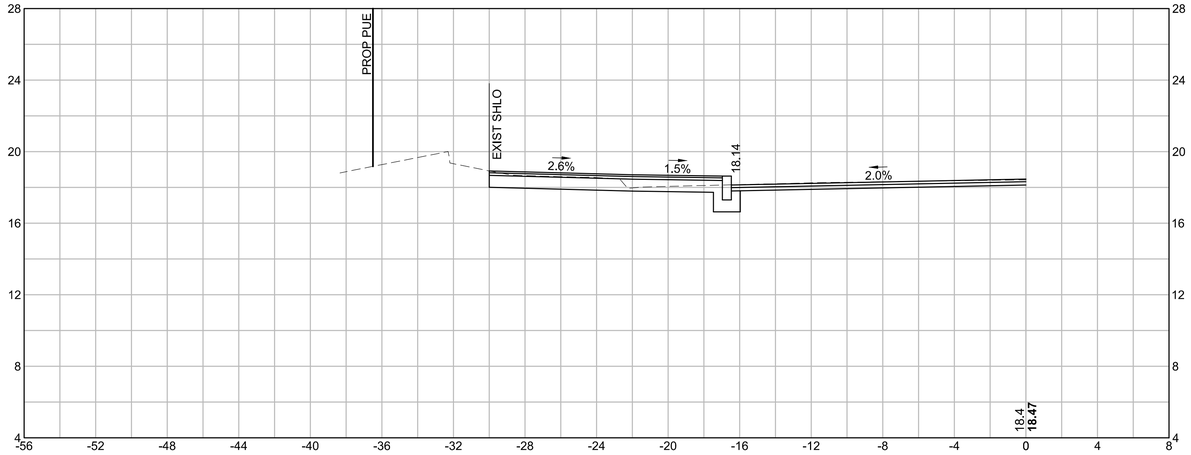
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	94	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 11+17 TO 11+50



11+50



11+16.68

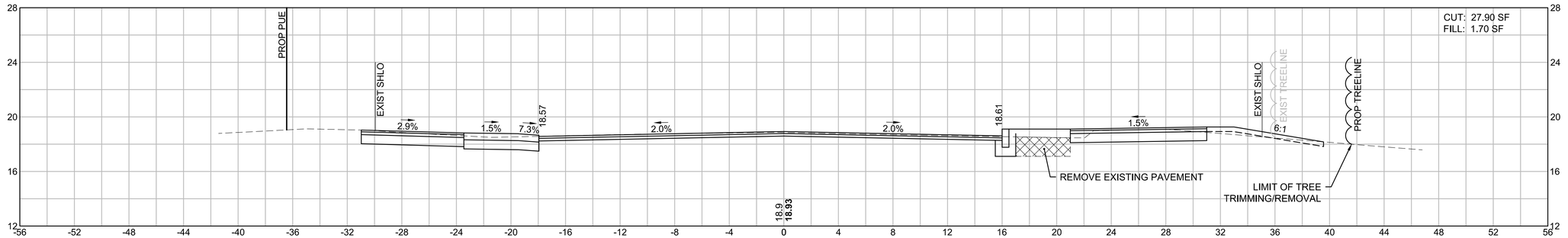
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM

WAREHAM
MARION ROAD (ROUTE 6)

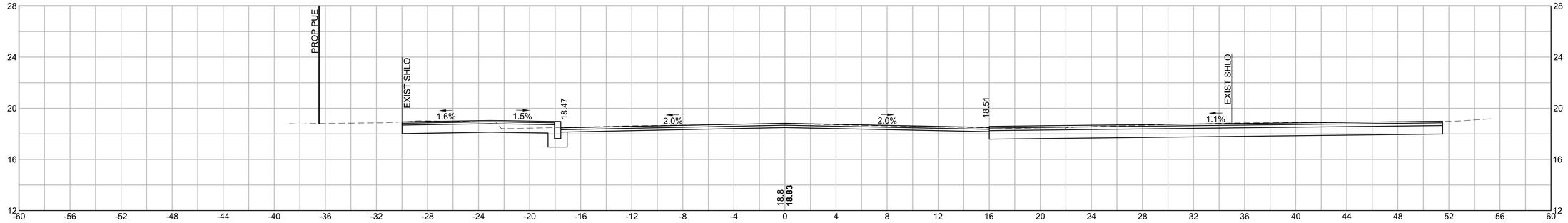
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	95	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 11+62.50 TO 12+00

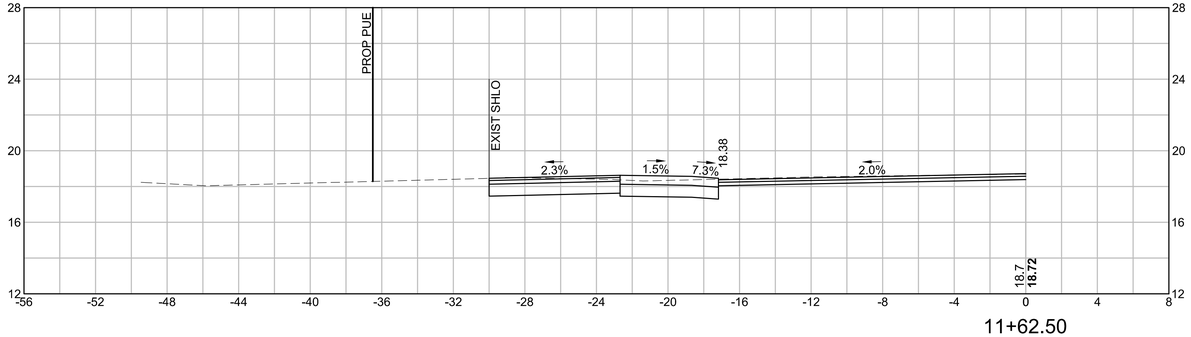
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM



12+00



11+81.22

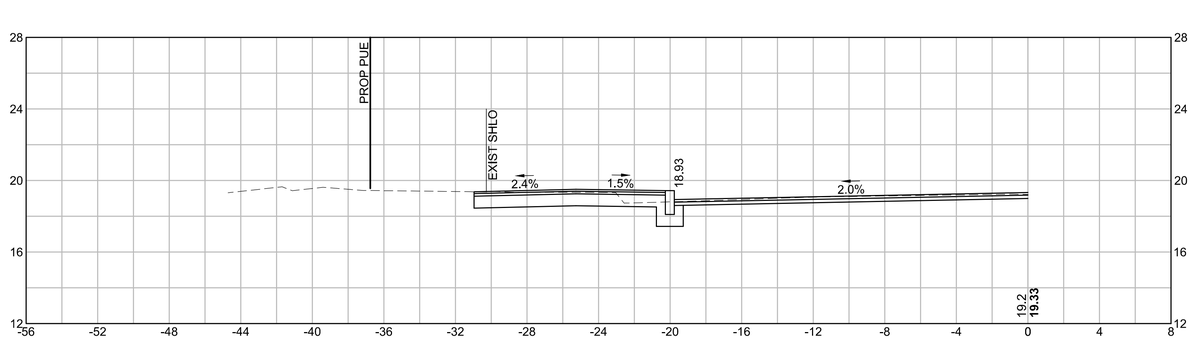


11+62.50

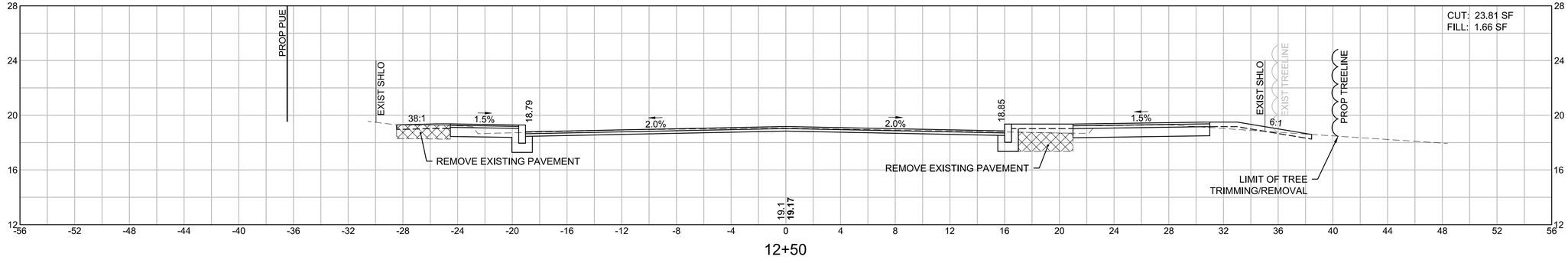
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	96	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 12+50 TO 12+84



12+82.06



12+50

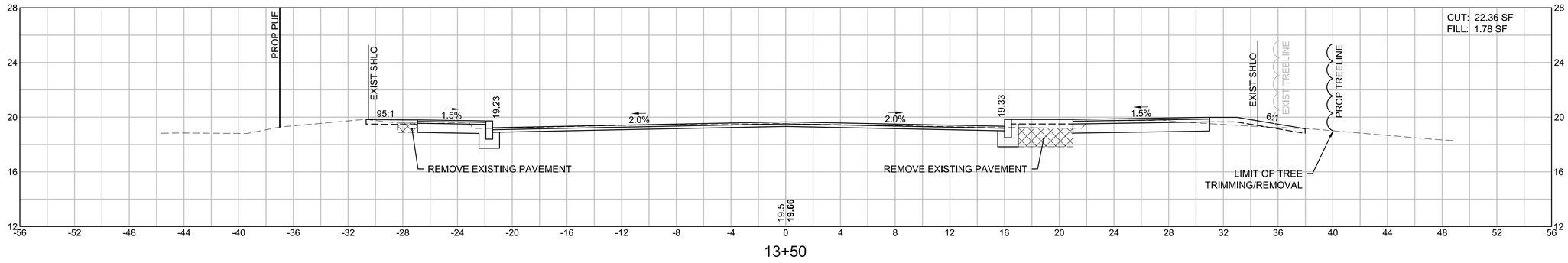
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM

WAREHAM
MARION ROAD (ROUTE 6)

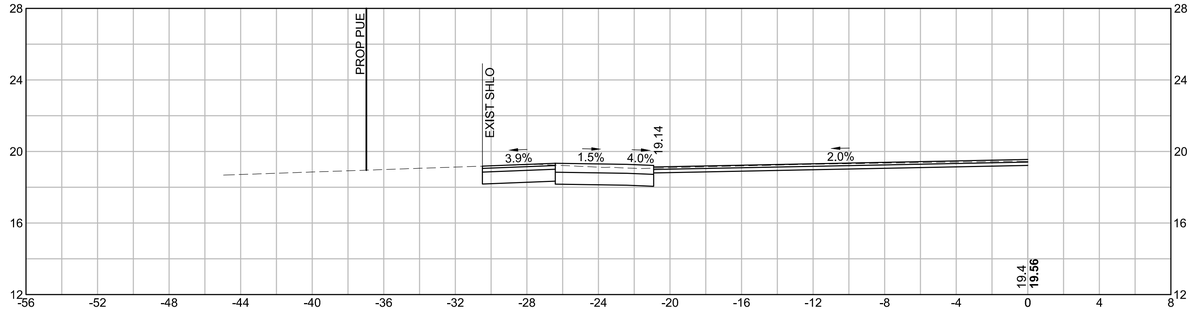
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	97	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 13+00 TO 13+50

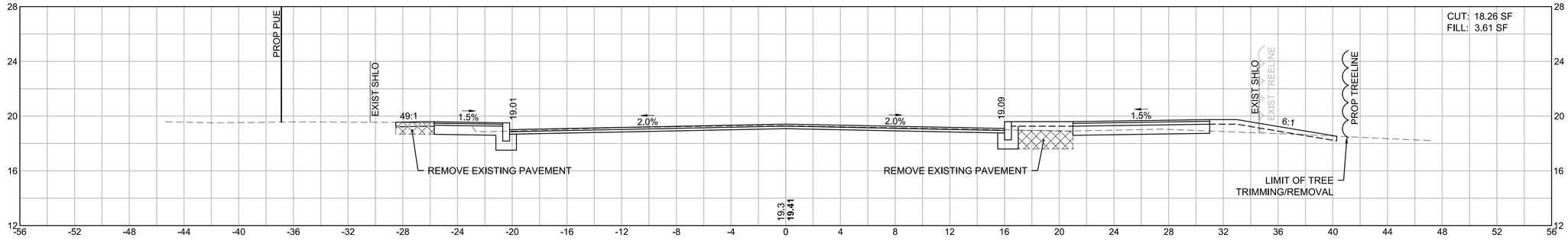
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM



13+50



13+29.50



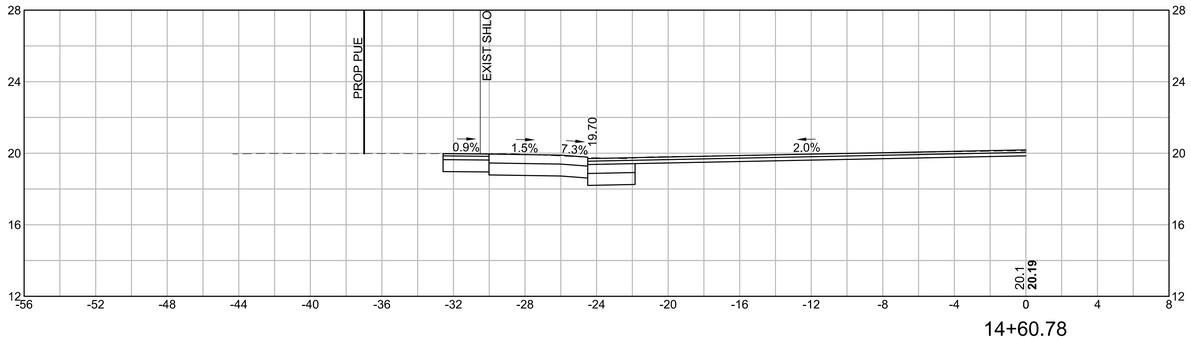
13+00

WAREHAM
MARION ROAD (ROUTE 6)

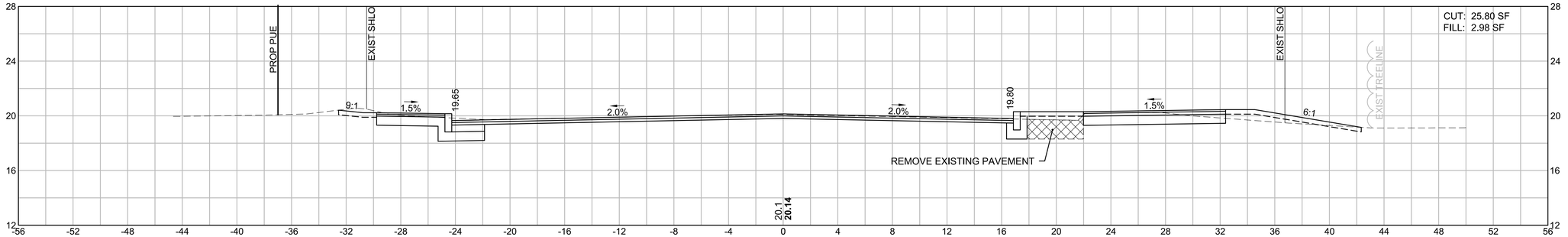
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	98	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 14+00 TO 14+61

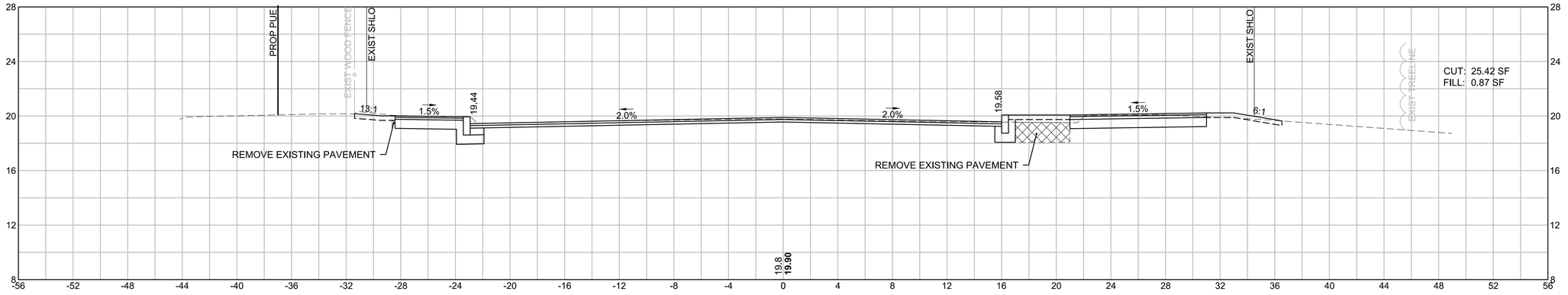
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM



14+60.78



14+50



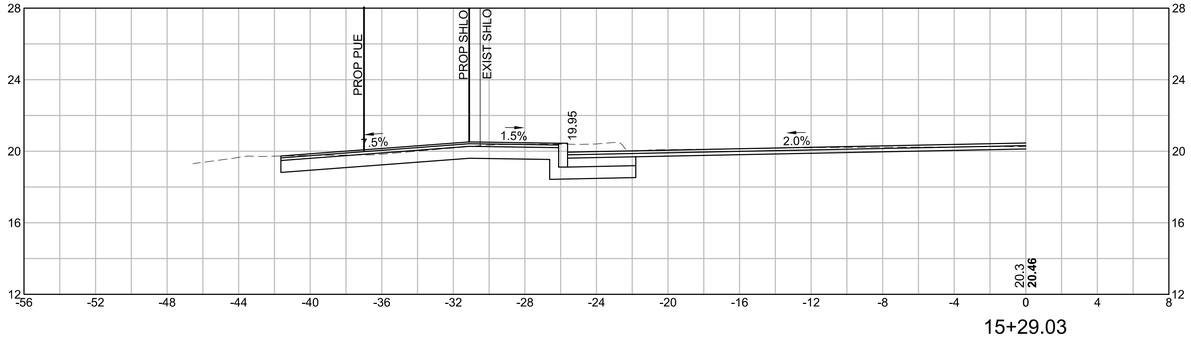
14+00

WAREHAM
MARION ROAD (ROUTE 6)

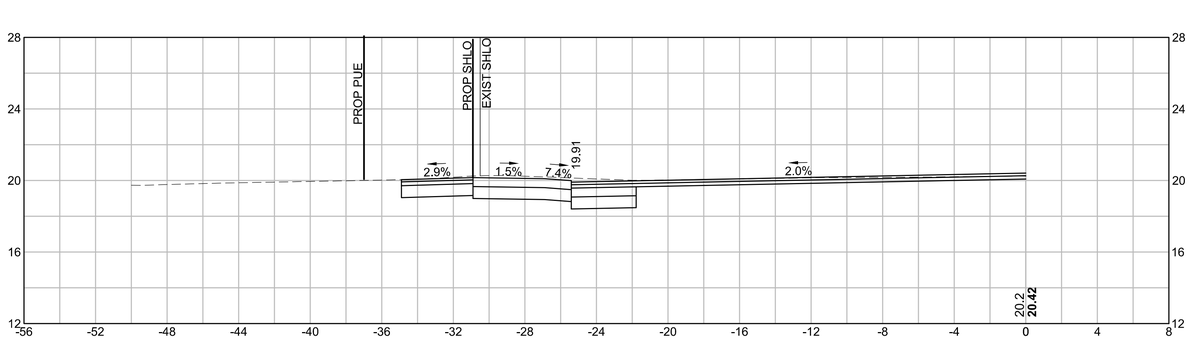
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	99	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 15+00 TO 15+29

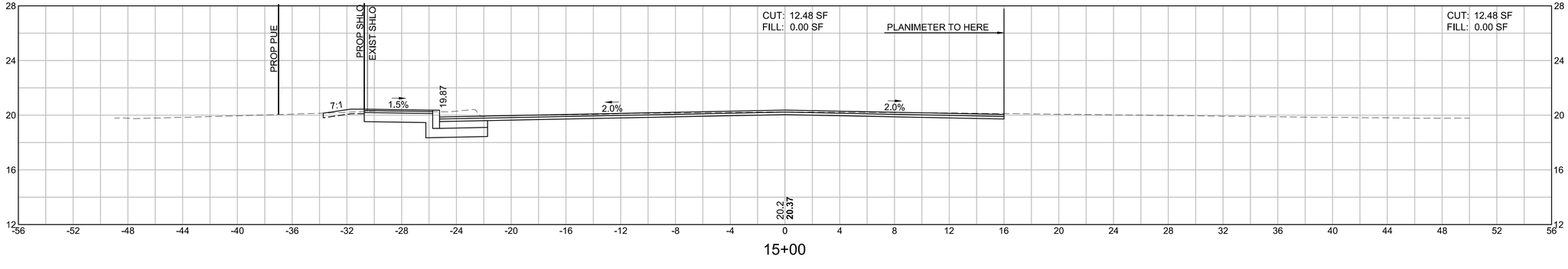
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:43 AM



15+29.03



15+12.11



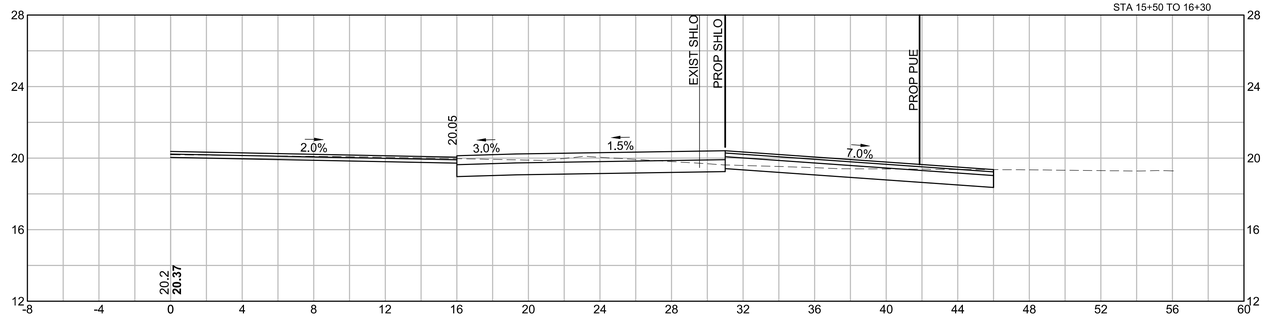
15+00

WAREHAM
MARION ROAD (ROUTE 6)

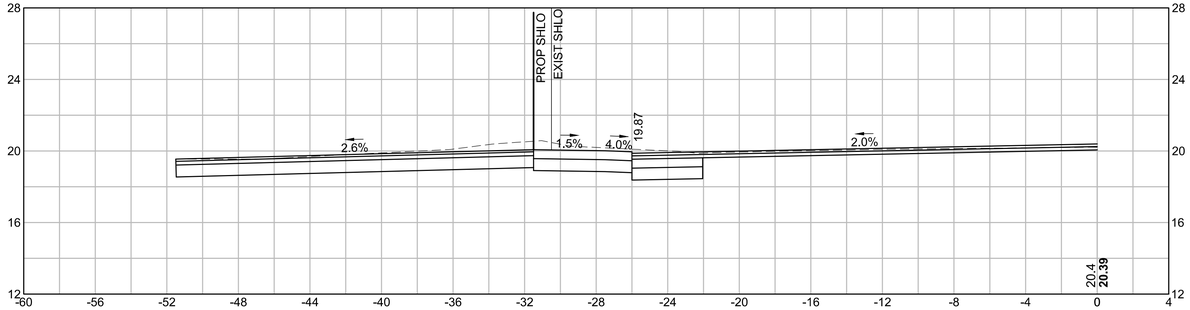
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	100	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD

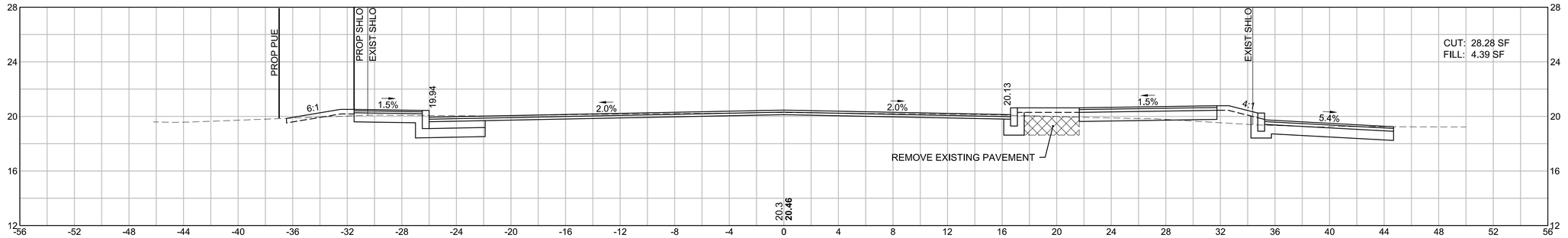
STA 15+50 TO 16+30



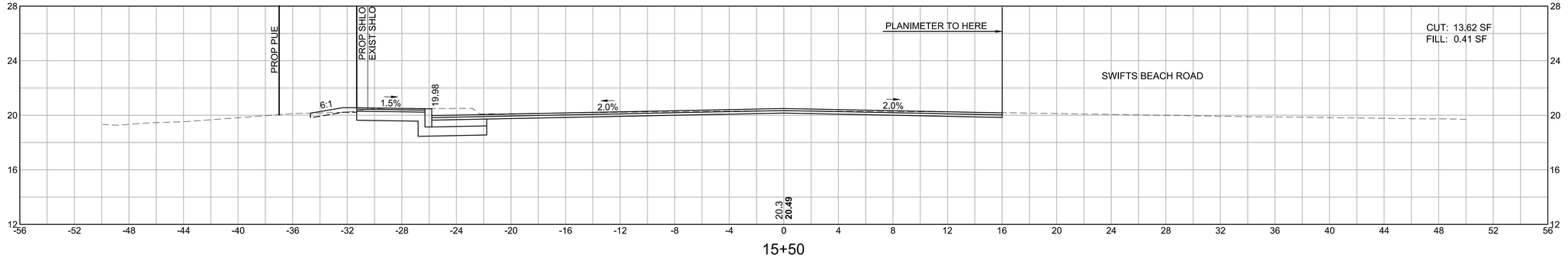
16+30



16+25



16+00



15+50

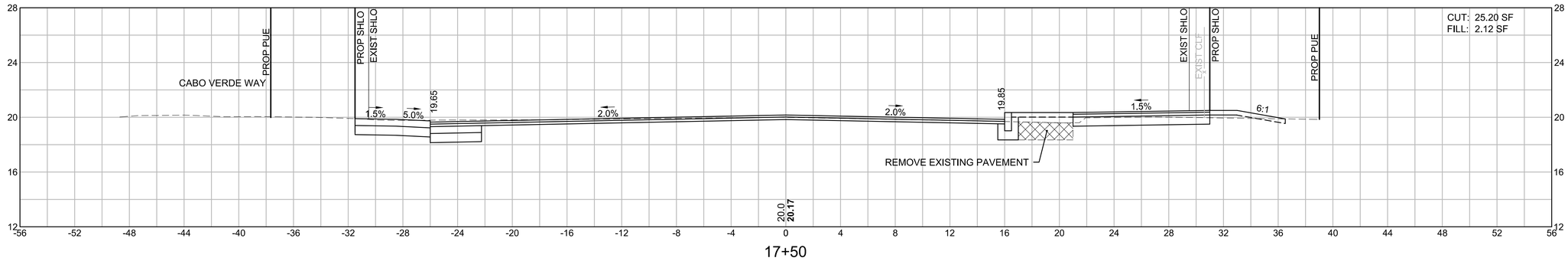
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM

WAREHAM
MARION ROAD (ROUTE 6)

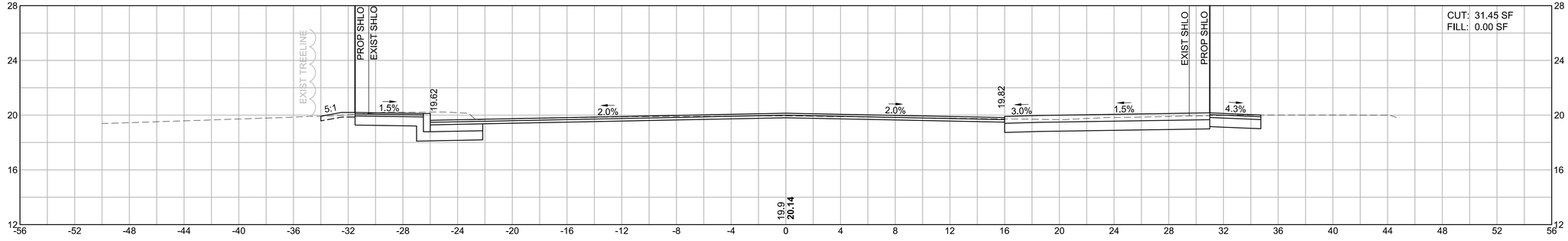
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	101	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 16+50 TO 17+50

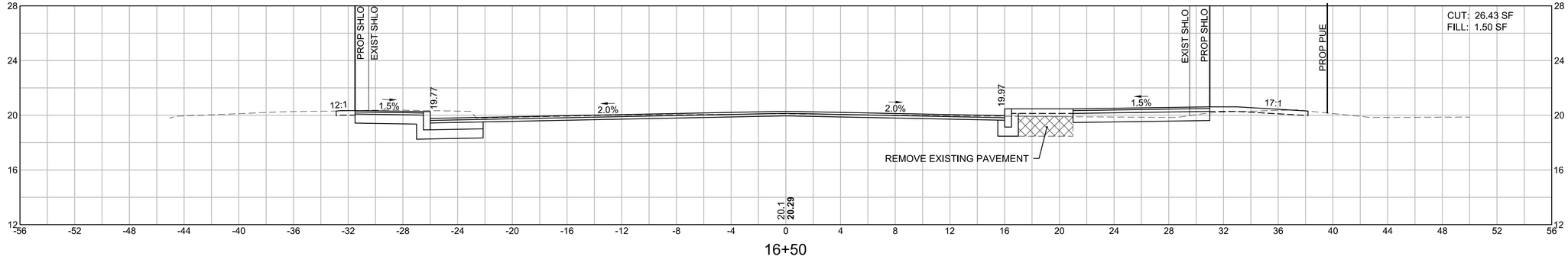
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM



17+50



17+00



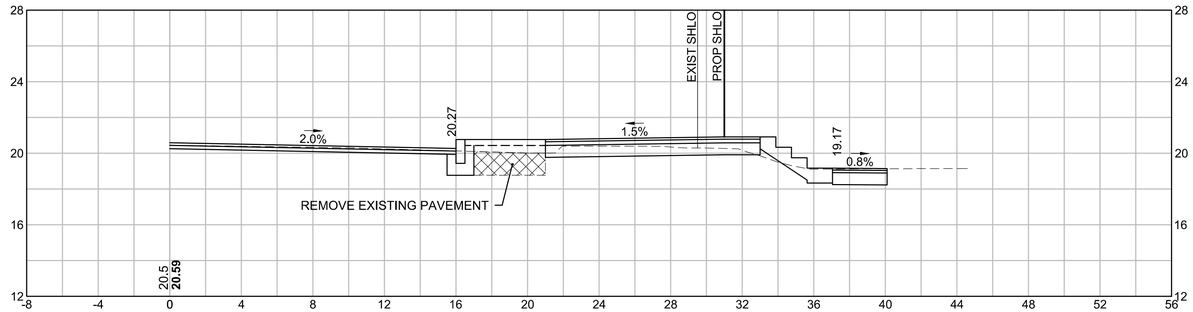
16+50

WAREHAM
MARION ROAD (ROUTE 6)

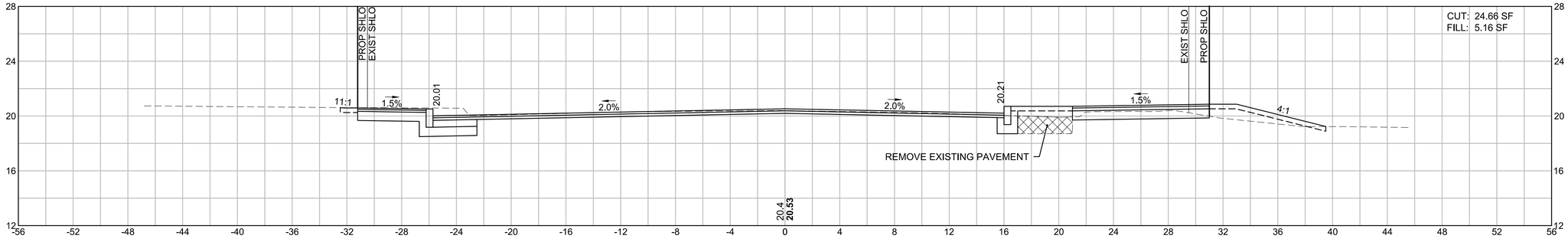
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	102	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 18+00 TO 18+73

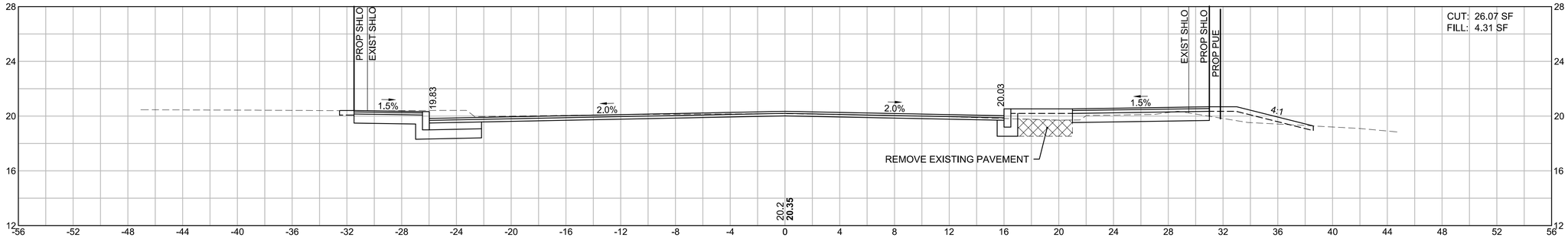
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM



18+73.06



18+50

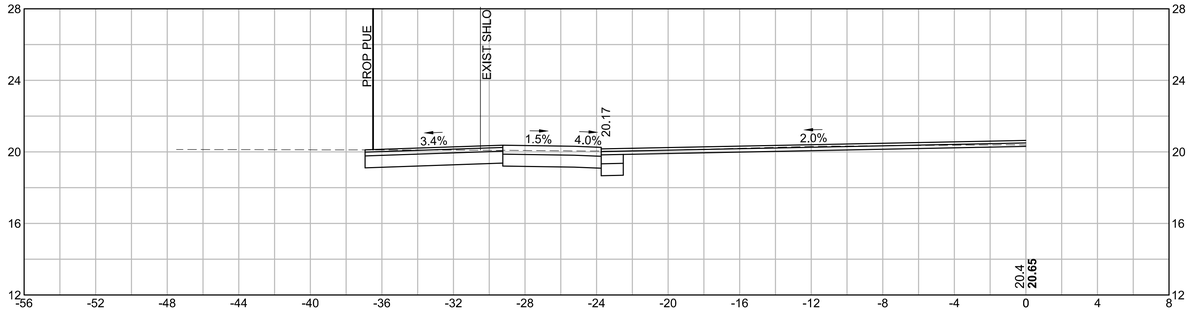


18+00

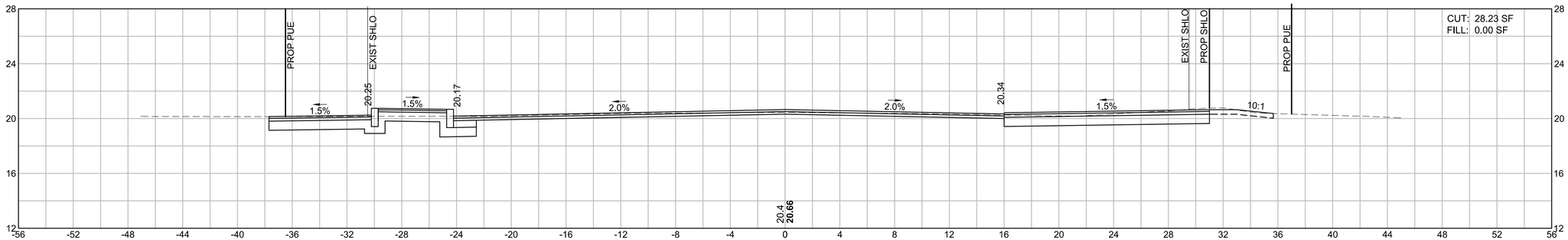
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	103	131
	PROJECT FILE NO. 610647		

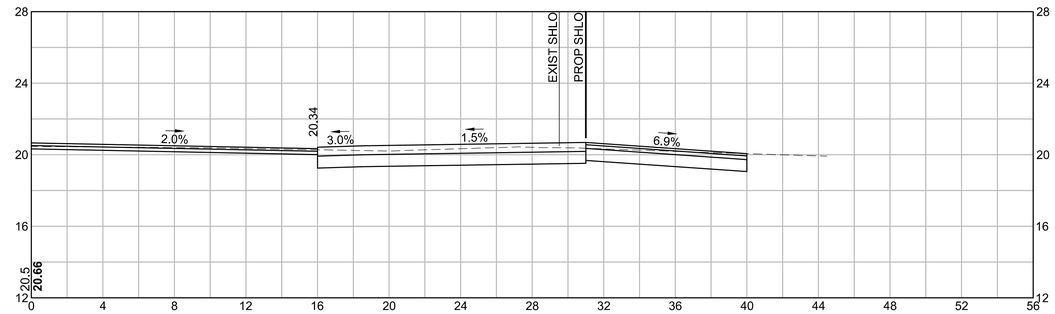
CROSS SECTIONS - MARION ROAD
STA 19+00 TO 19+71



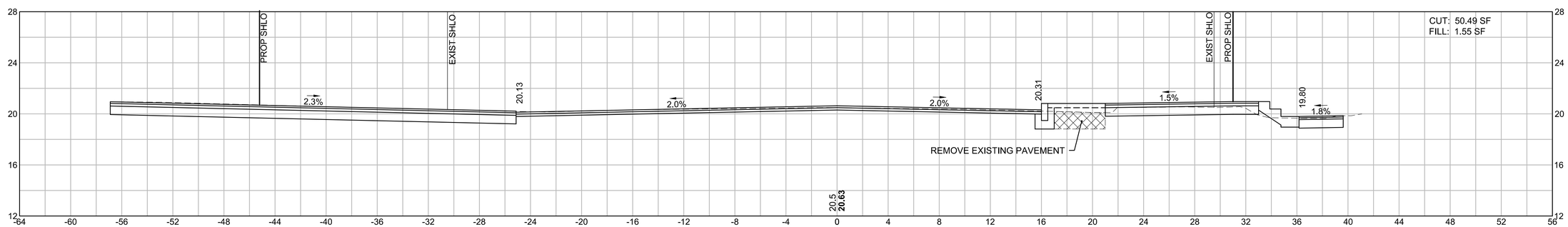
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19+50



19+40



19+00

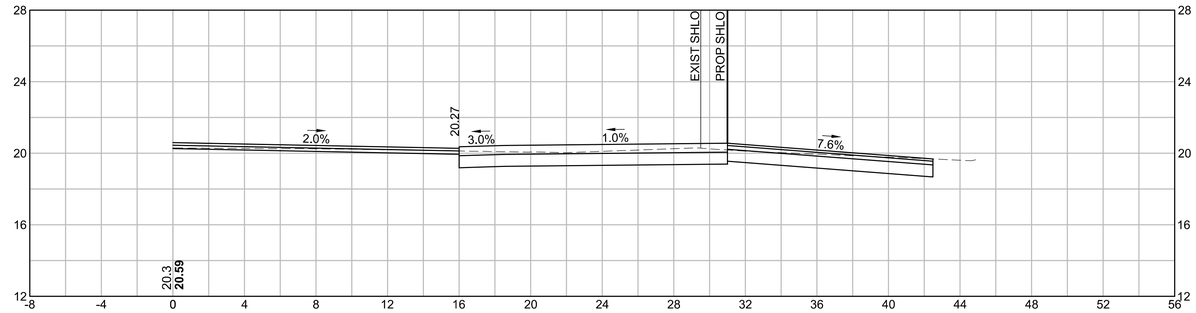
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	104	131
	PROJECT FILE NO. 610647		

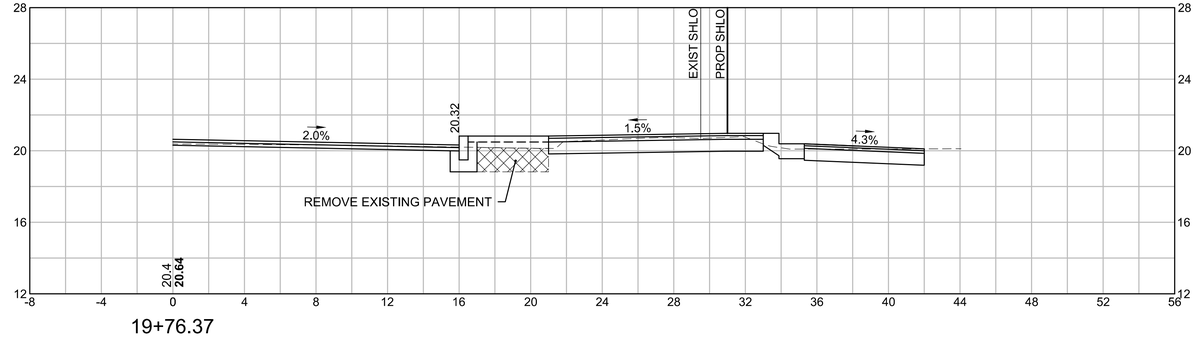
CROSS SECTIONS - MARION ROAD
STA 19+76 TO 20+07

Plotted on 3-Mar-2026 8:44 AM
610647_HD14(X-SECTIONS_MARION).DWG



20+06.82

20+00



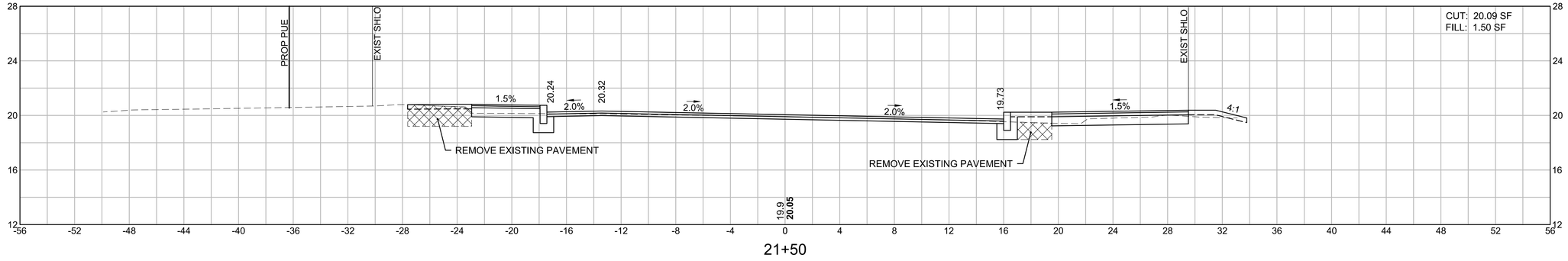
19+76.37

WAREHAM
MARION ROAD (ROUTE 6)

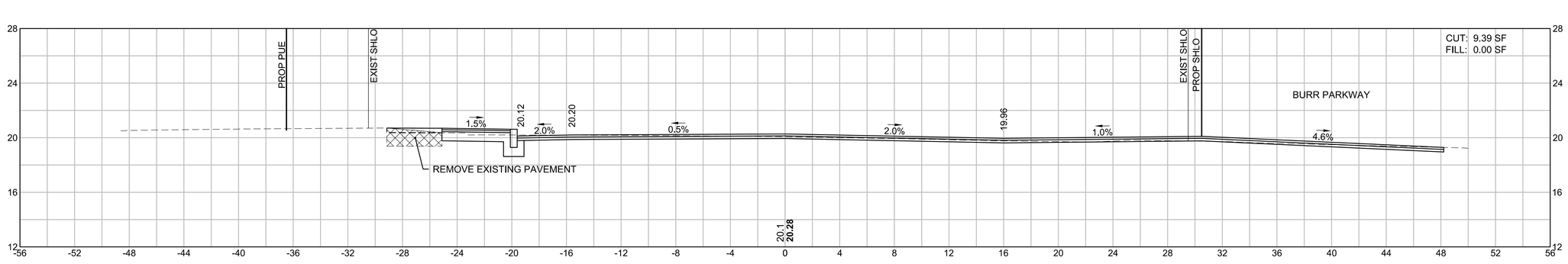
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	105	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 20+50 TO 21+50

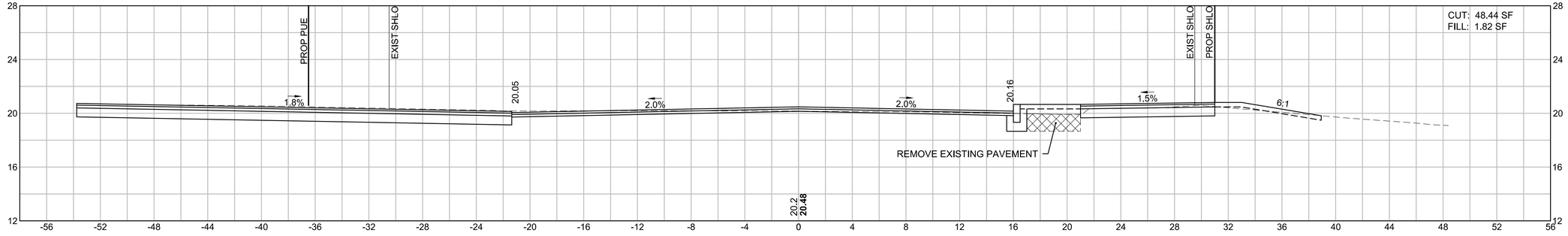
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM



21+50



21+00



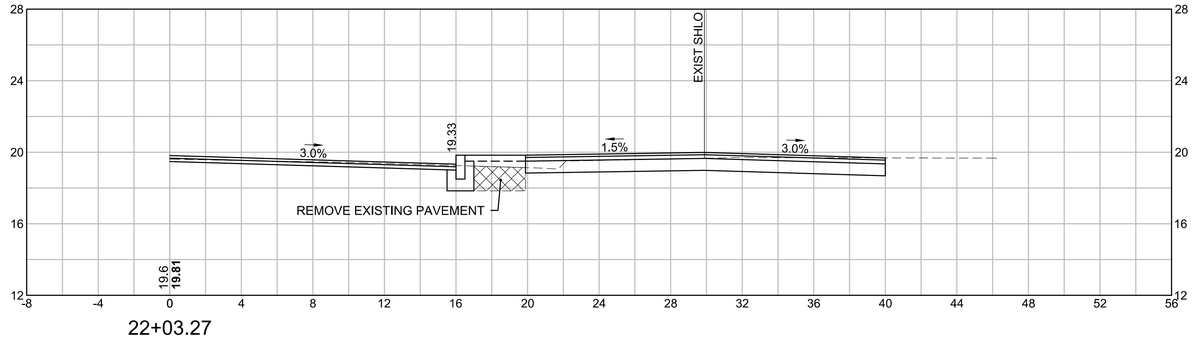
20+50

WAREHAM
MARION ROAD (ROUTE 6)

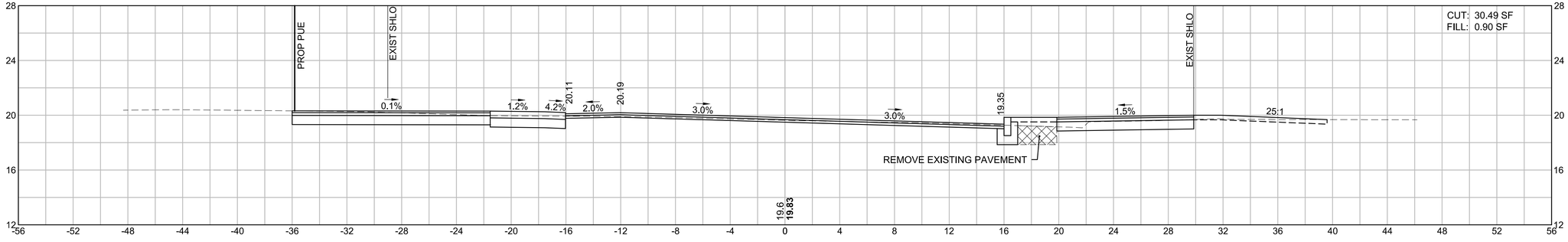
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	106	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 21+72 TO 22+03

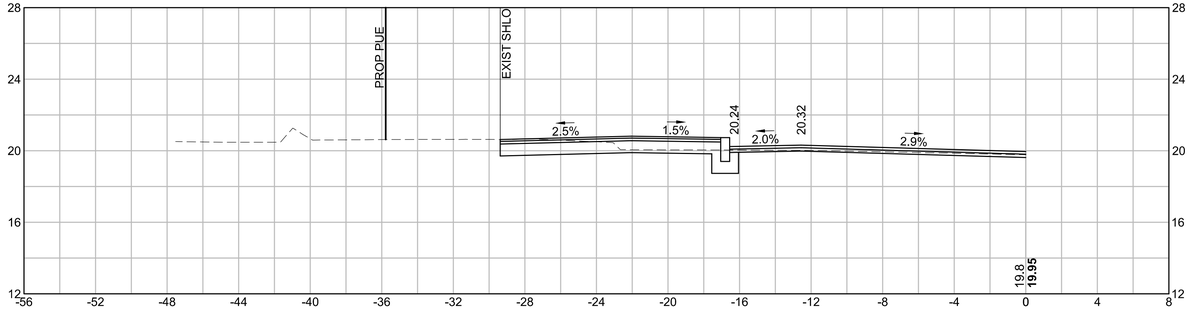
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:44 AM



22+03.27



22+00



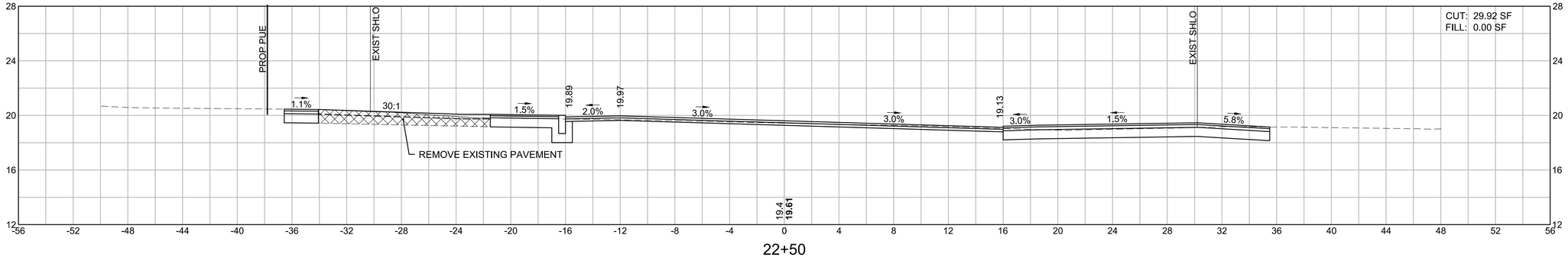
21+72

WAREHAM
MARION ROAD (ROUTE 6)

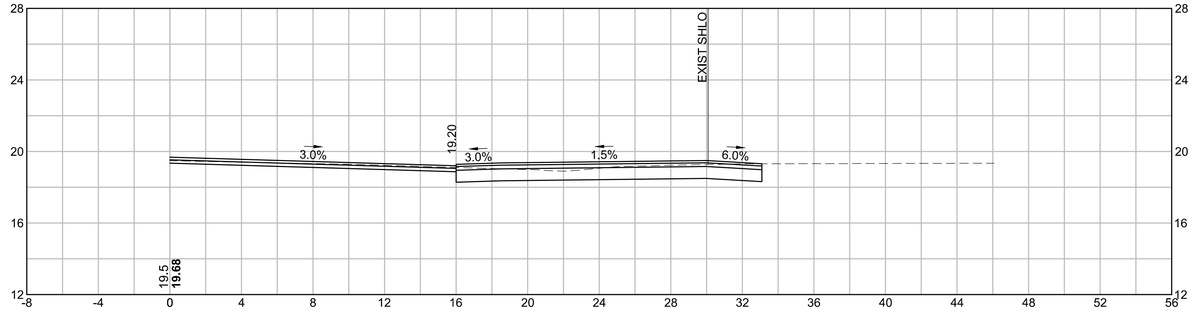
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	107	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 22+06 TO 22+50

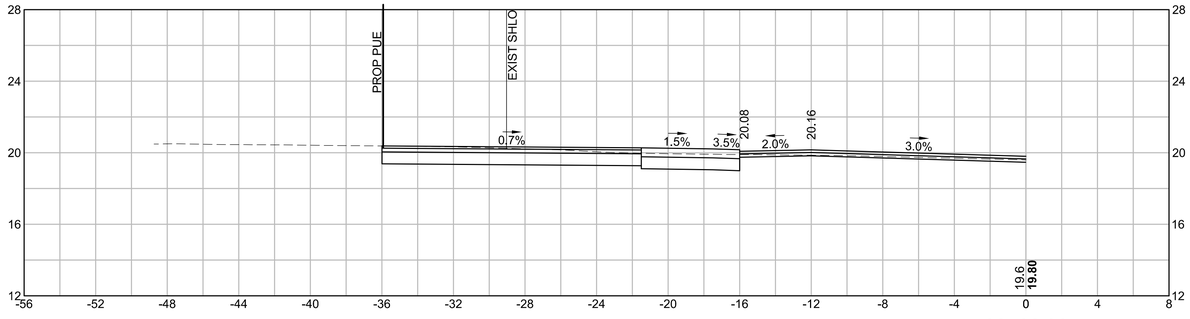
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:45 AM



22+50



22+33.18

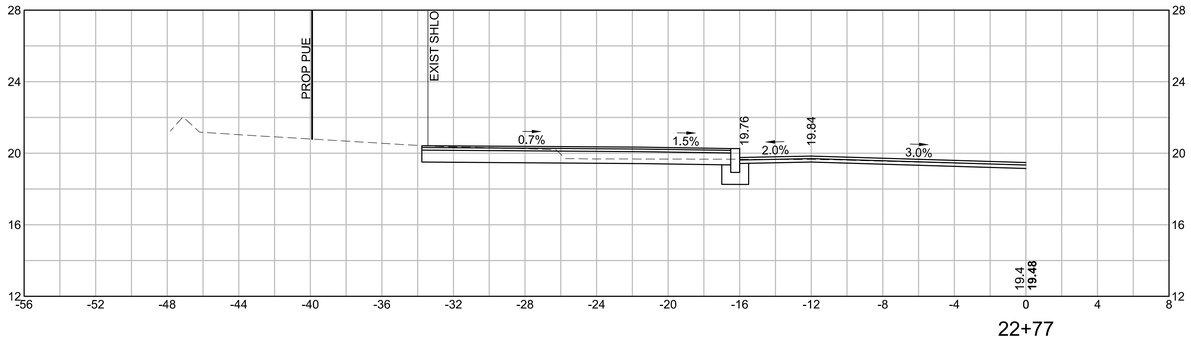


22+06.26

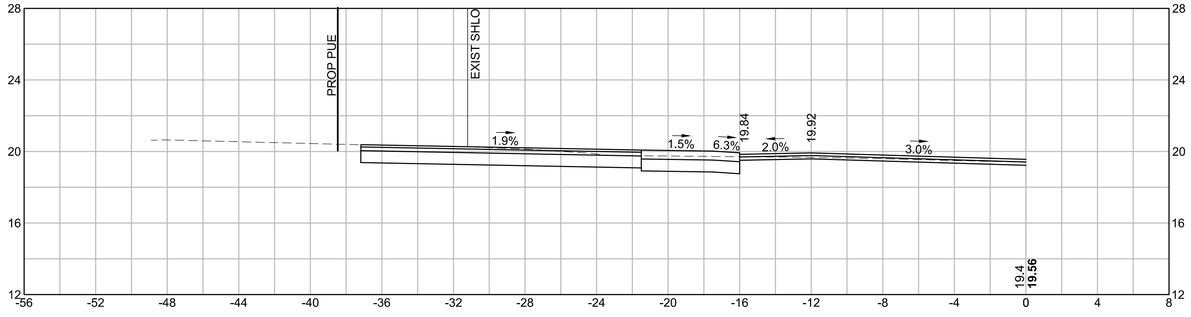
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	108	131
	PROJECT FILE NO.	610647	

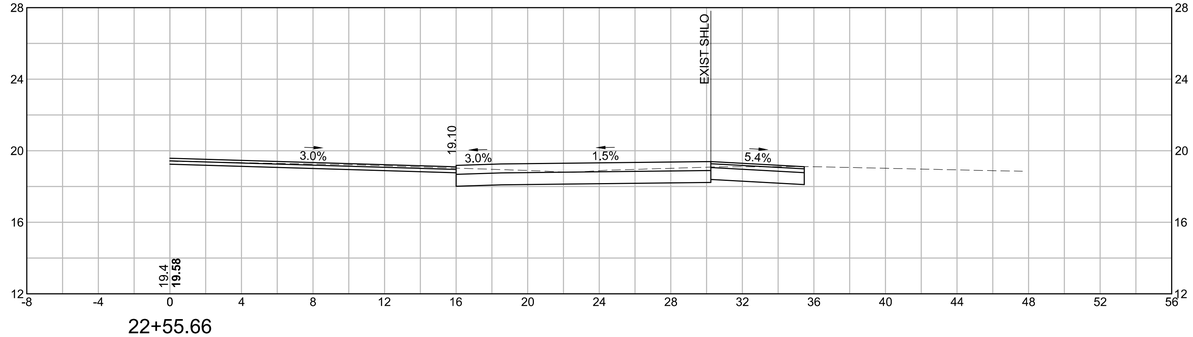
CROSS SECTIONS - MARION ROAD
STA 22+56 TO 22+79



22+77



22+59.67



22+55.66

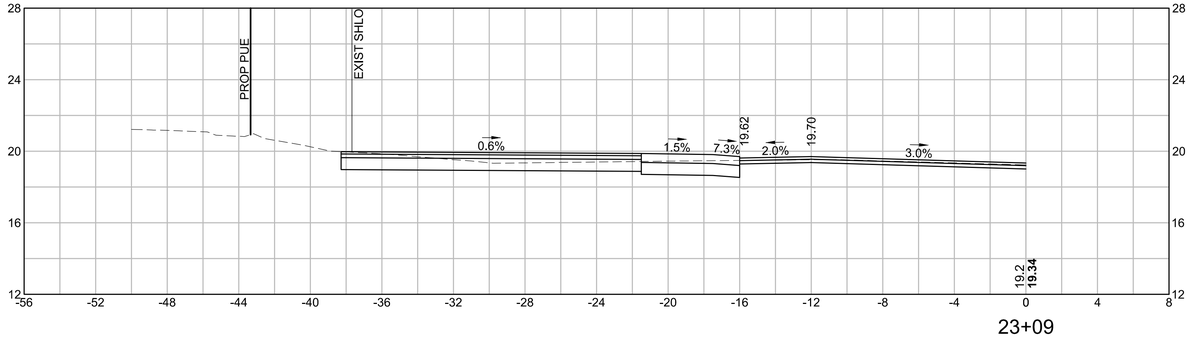
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:45 AM

WAREHAM
MARION ROAD (ROUTE 6)

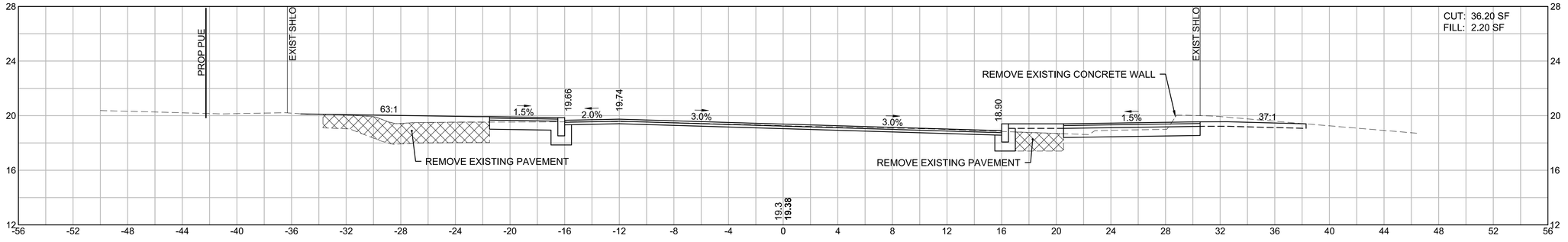
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	109	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 22+81 TO 23+09

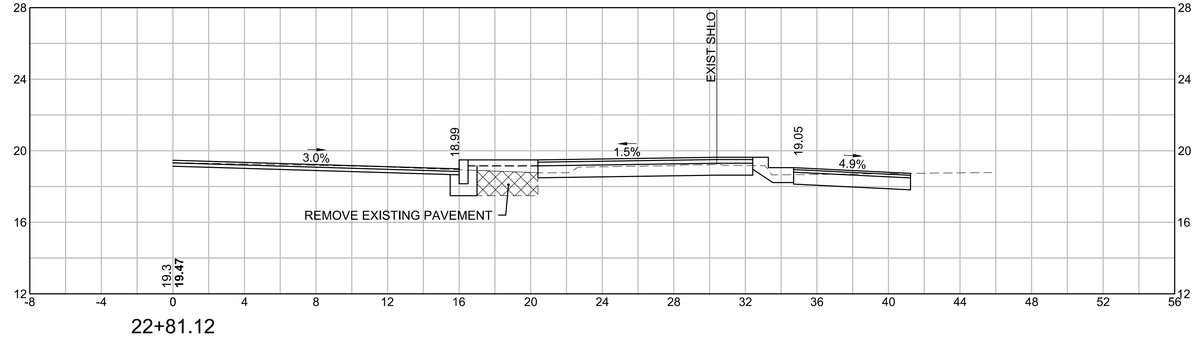
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:45 AM



23+09



23+00



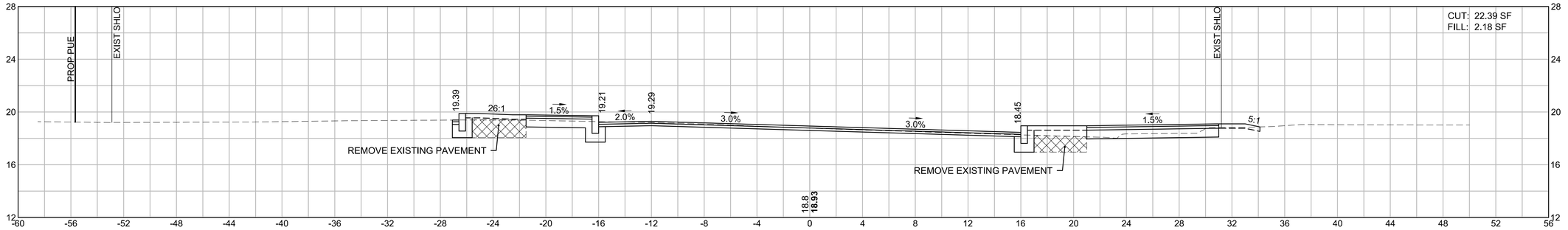
22+81.12

WAREHAM
MARION ROAD (ROUTE 6)

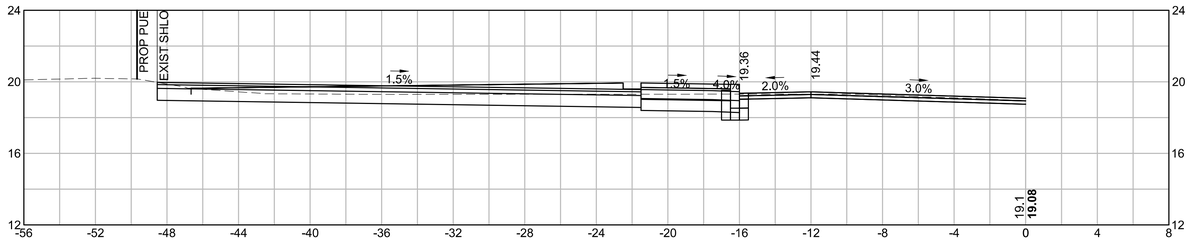
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	110	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 23+39.50 TO 24+00

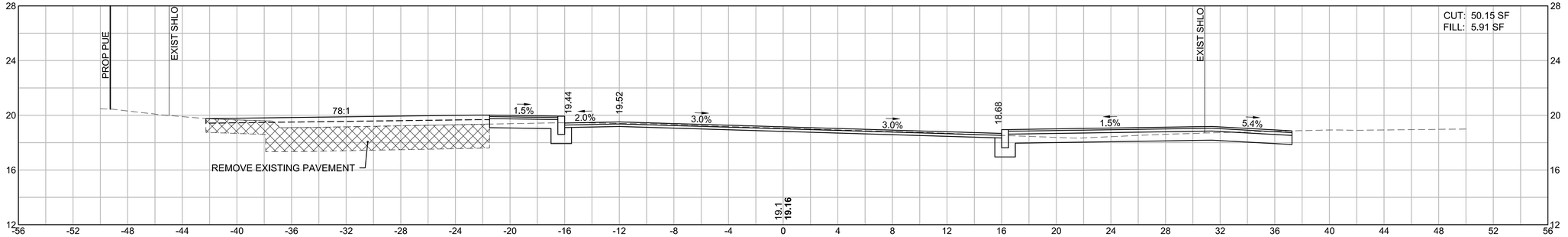
Plotted on 3-Mar-2026 8:45 AM
610647_HD14(X-SECTIONS_MARION).DWG



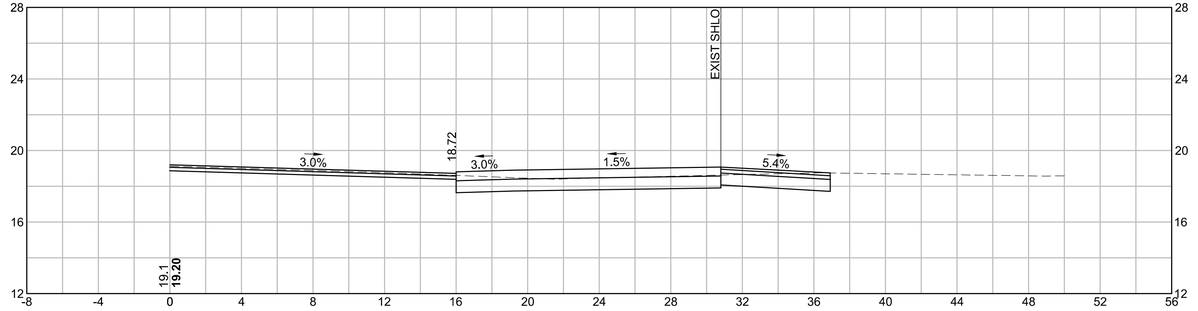
24+00



23+68



23+50

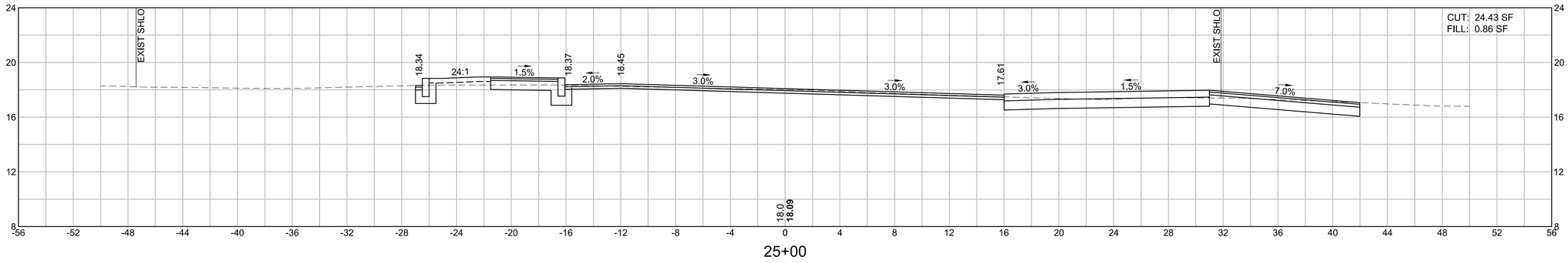


23+39.53

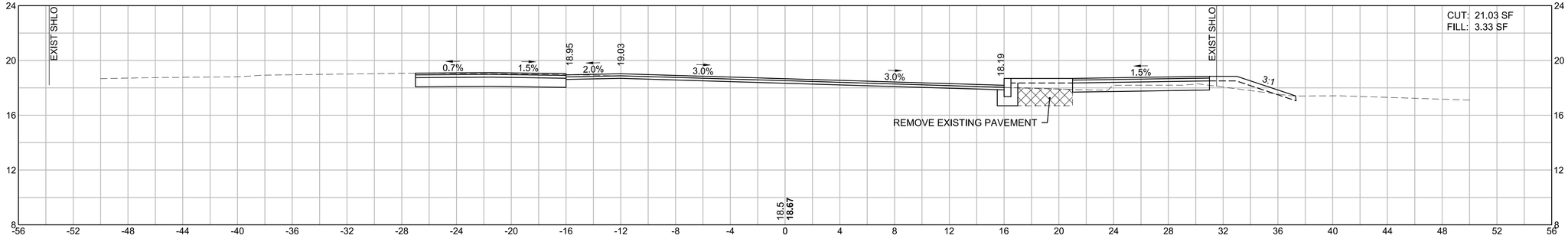
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	111	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 24+37 TO 25+00



25+00



24+50



24+36.78

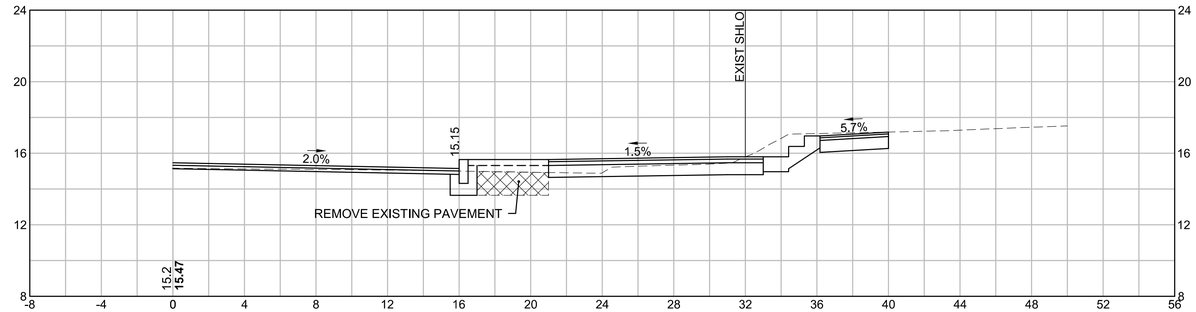
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:45 AM

WAREHAM
MARION ROAD (ROUTE 6)

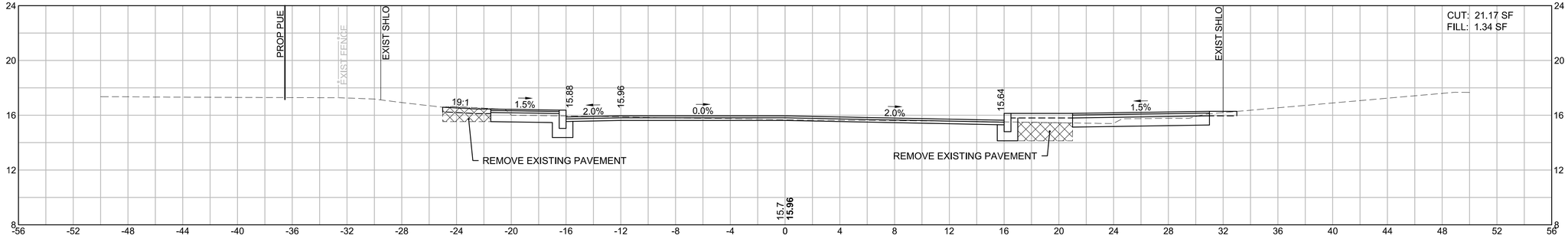
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	112	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 25+50 TO 26+21

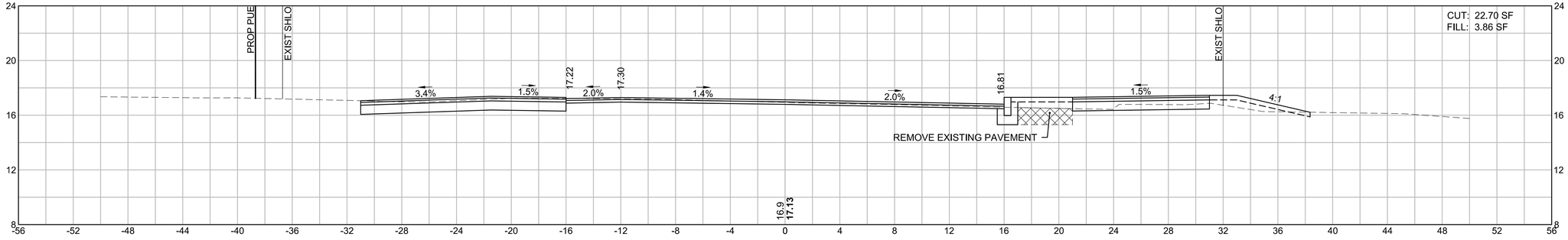
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:45 AM



26+20.81



26+00

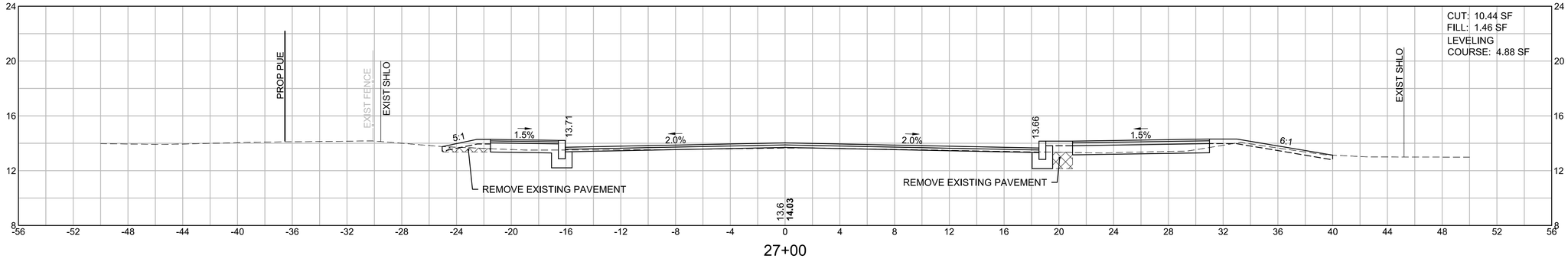


25+50

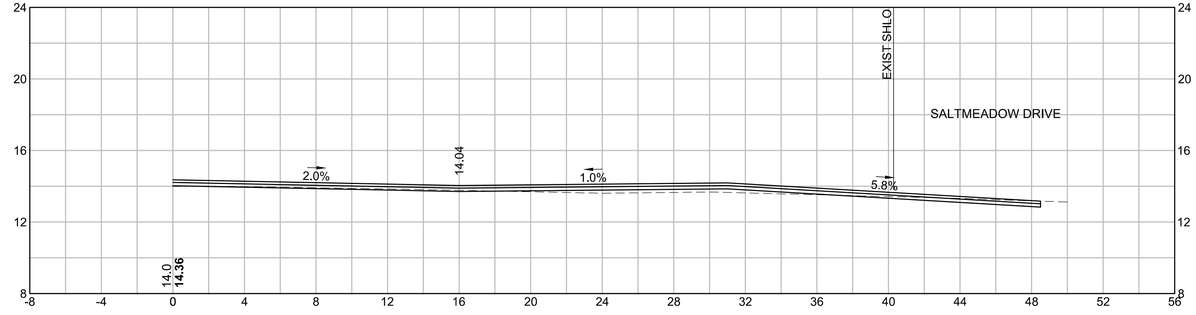
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	113	131
	PROJECT FILE NO. 610647		

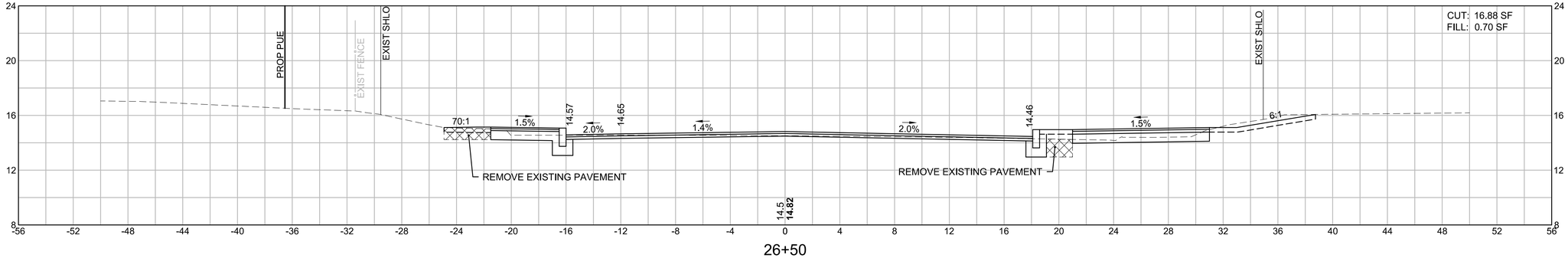
CROSS SECTIONS - MARION ROAD
STA 26+50 TO 27+00



27+00



26+76.04



26+50

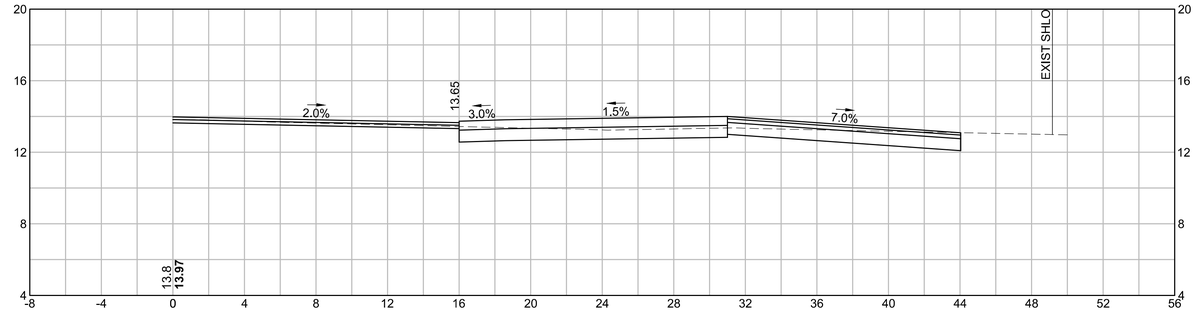
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:46 AM

WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	114	131
	PROJECT FILE NO. 610647		

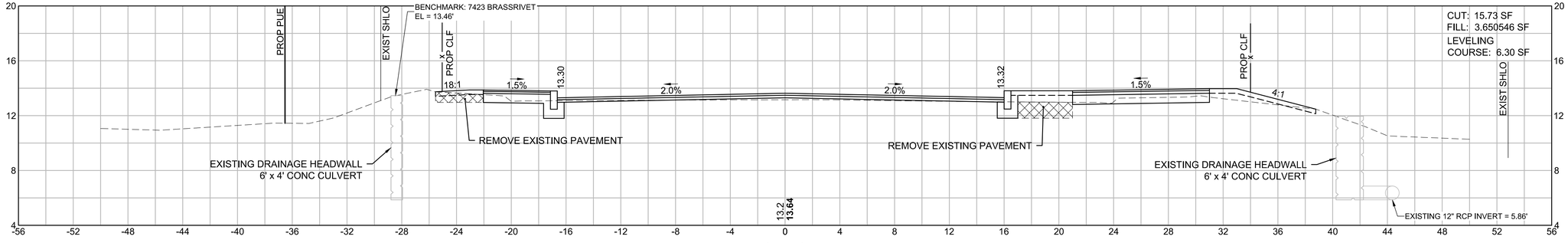
CROSS SECTIONS - MARION ROAD
STA 27+50 TO 28+42

Plotted on 3-Mar-2026 8:46 AM
610647_HD14(X-SECTIONS_MARION).DWG



28+42.13

28+00



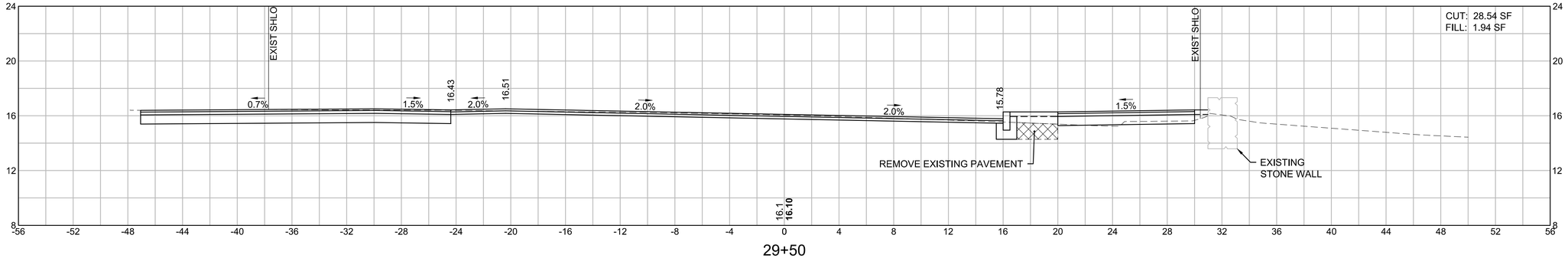
27+50

WAREHAM
MARION ROAD (ROUTE 6)

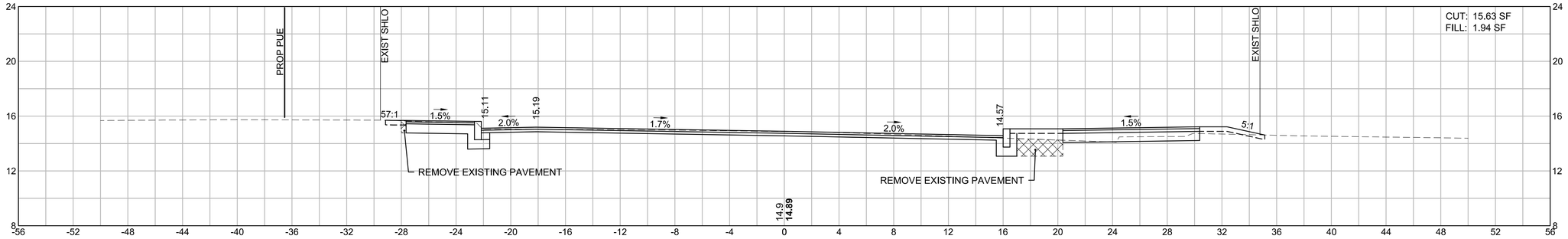
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	115	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 28+50 TO 29+50

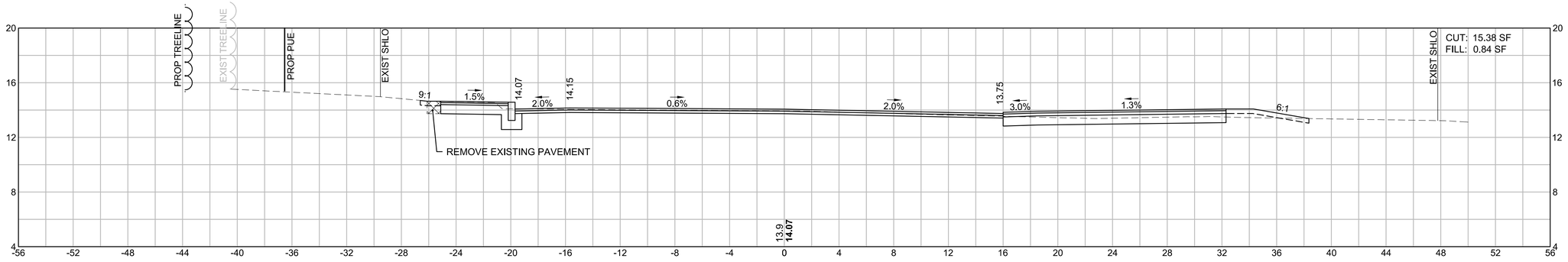
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:46 AM



29+50



29+00

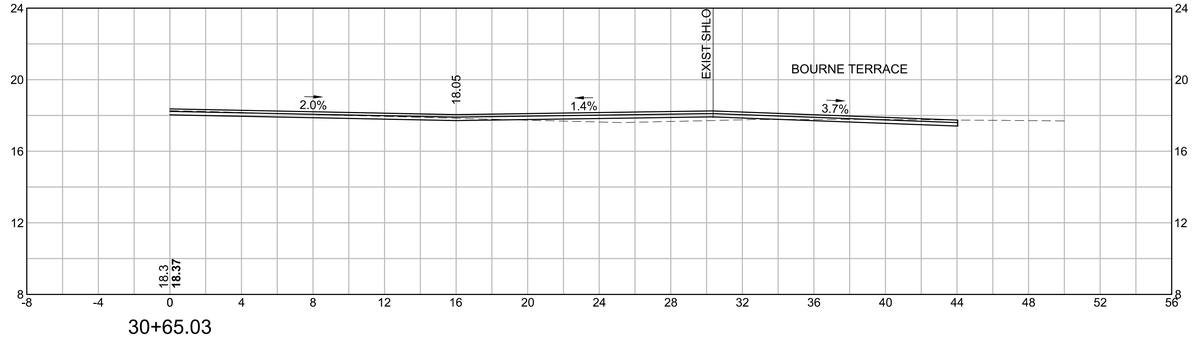


28+50

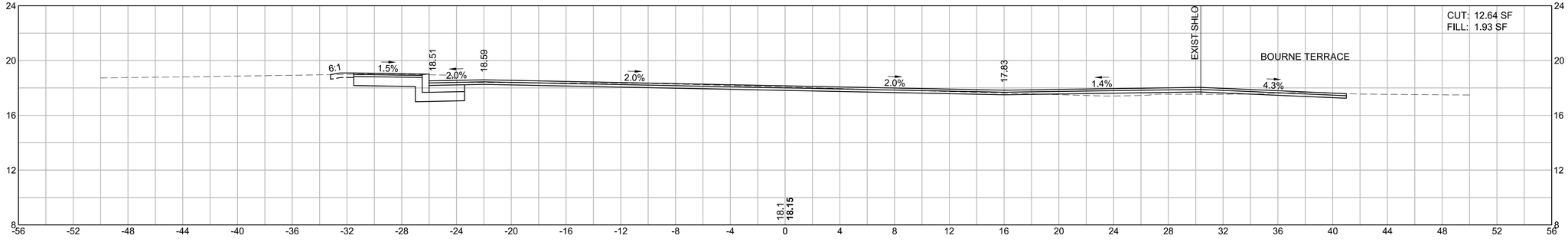
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	116	131
	PROJECT FILE NO. 610647		

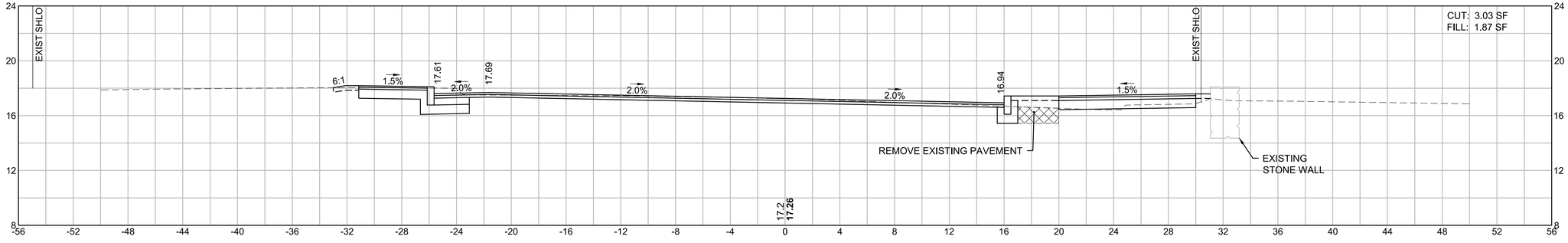
CROSS SECTIONS - MARION ROAD
STA 30+00 TO 30+65



30+65.03



30+50



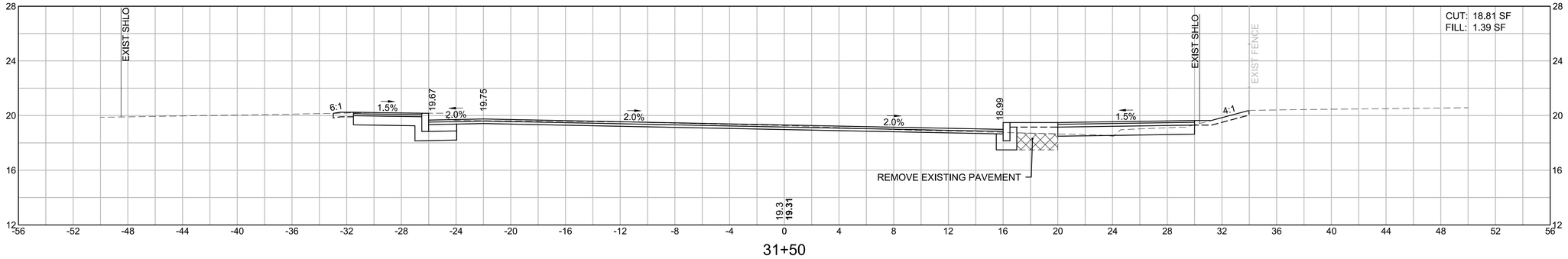
30+00

610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:46 AM

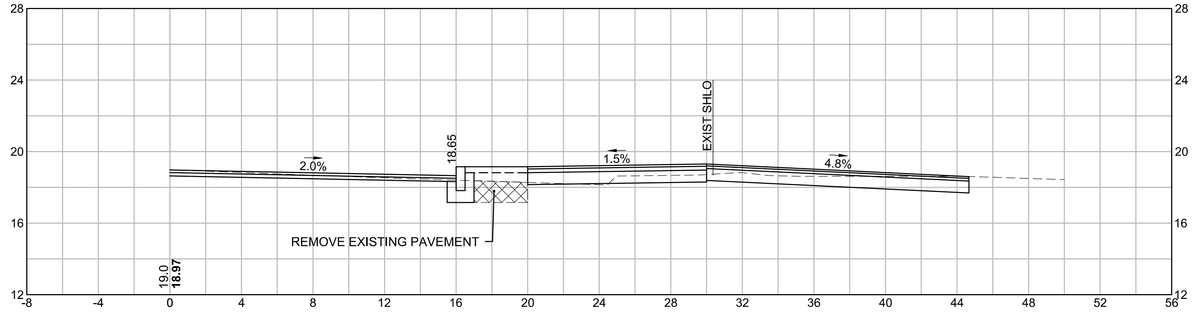
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	117	131
	PROJECT FILE NO. 610647		

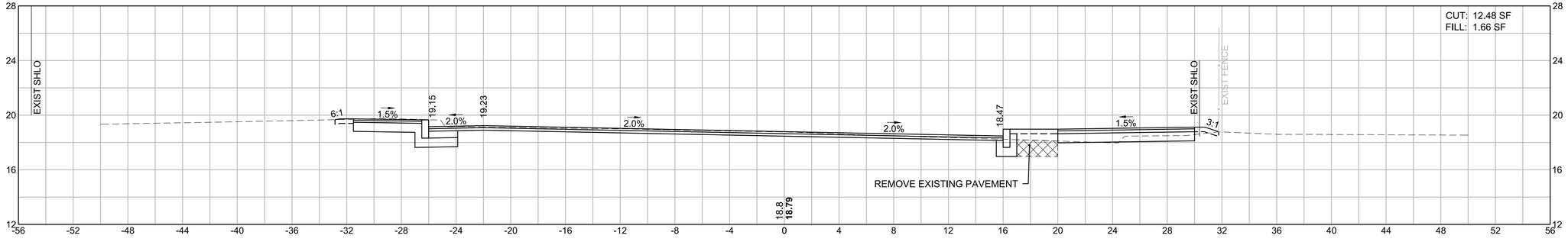
CROSS SECTIONS - MARION ROAD
STA 31+00 TO 31+50



31+50



31+17.42



31+00

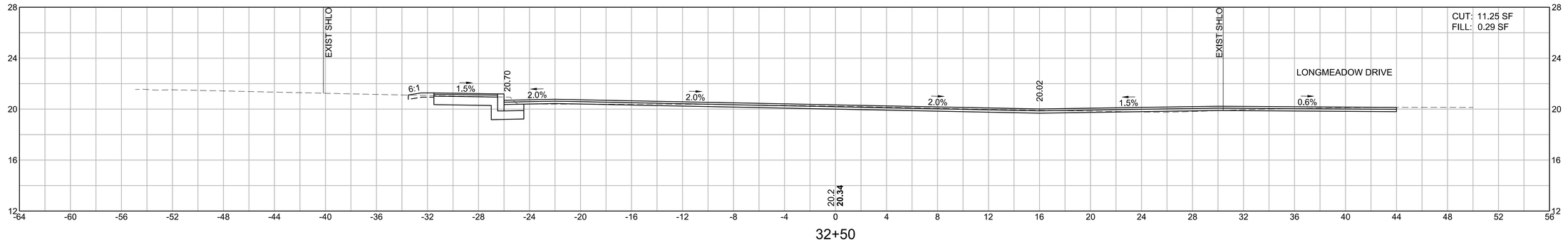
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:46 AM

WAREHAM
MARION ROAD (ROUTE 6)

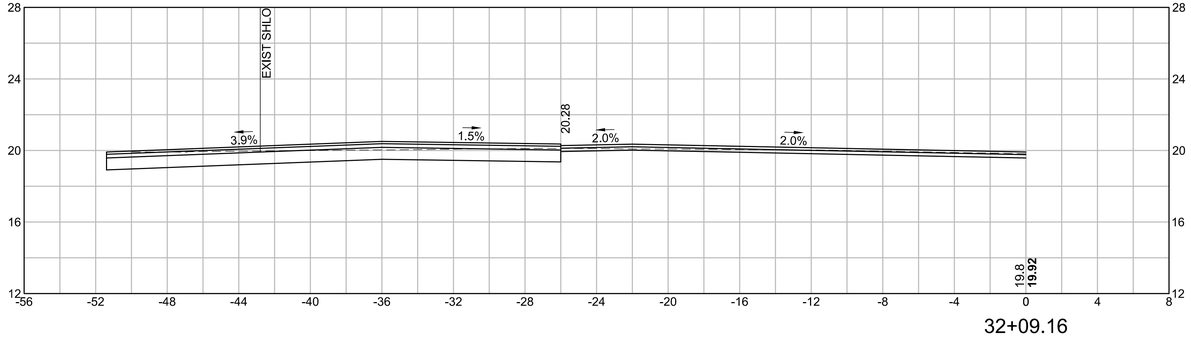
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	118	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 32+00 TO 32+50

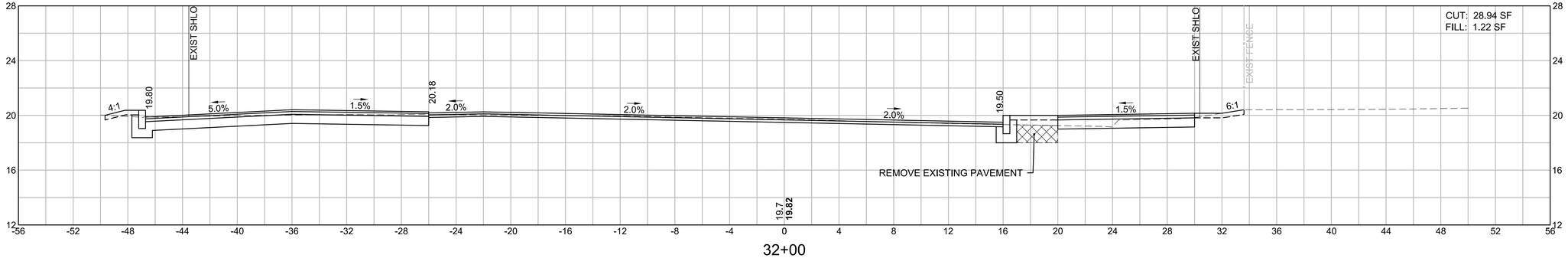
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:46 AM



32+50



32+09.16



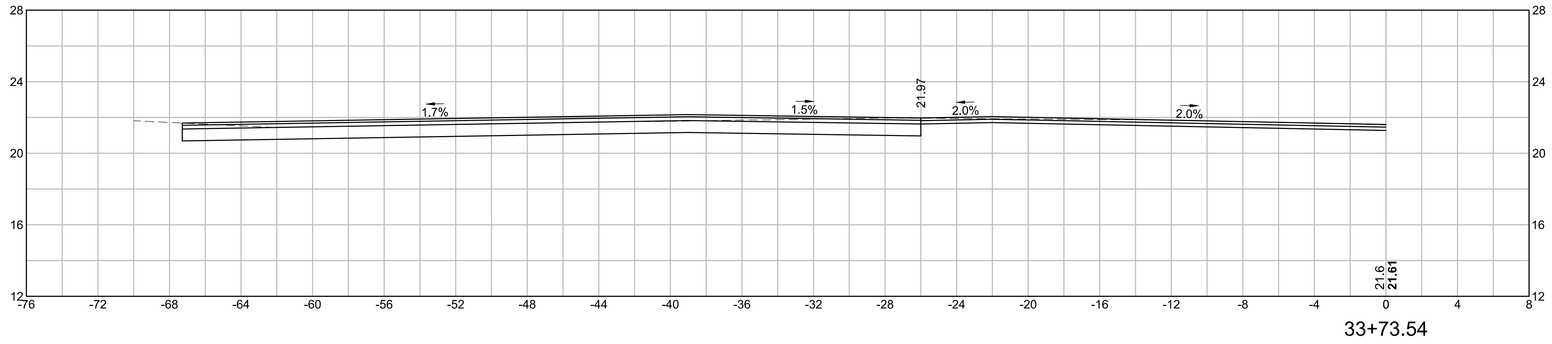
32+00

WAREHAM
MARION ROAD (ROUTE 6)

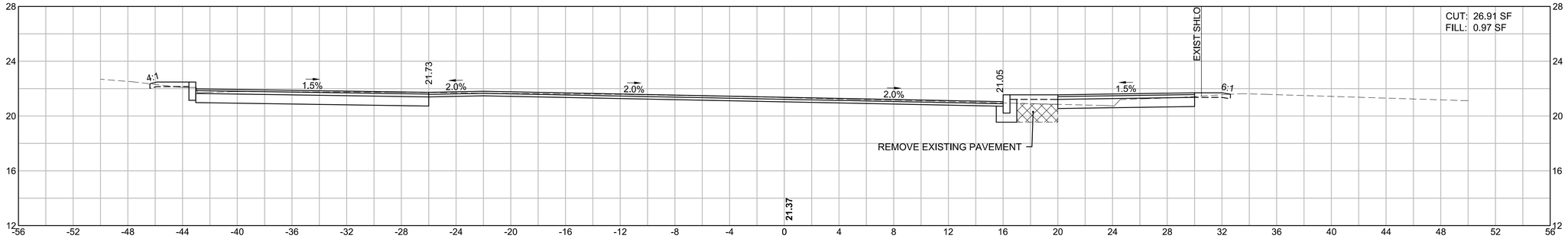
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	119	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 33+00 TO 33+73.50

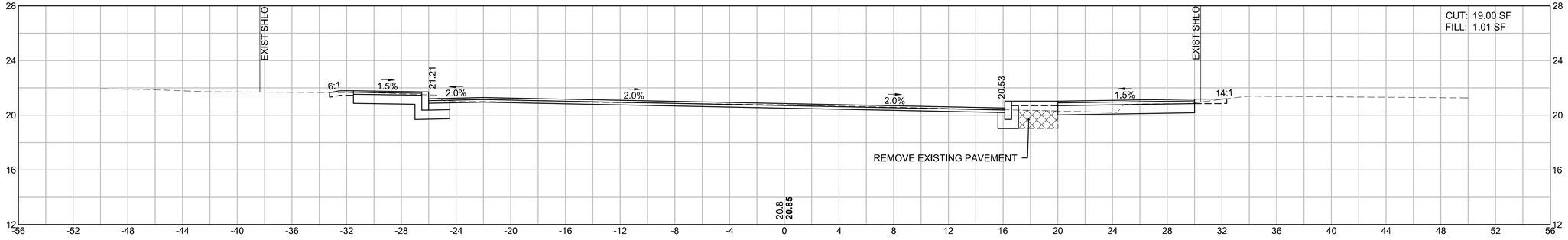
Plotted on 3-Mar-2026 8:46 AM
610647_HD14(X-SECTIONS_MARION).DWG



33+73.54



33+50

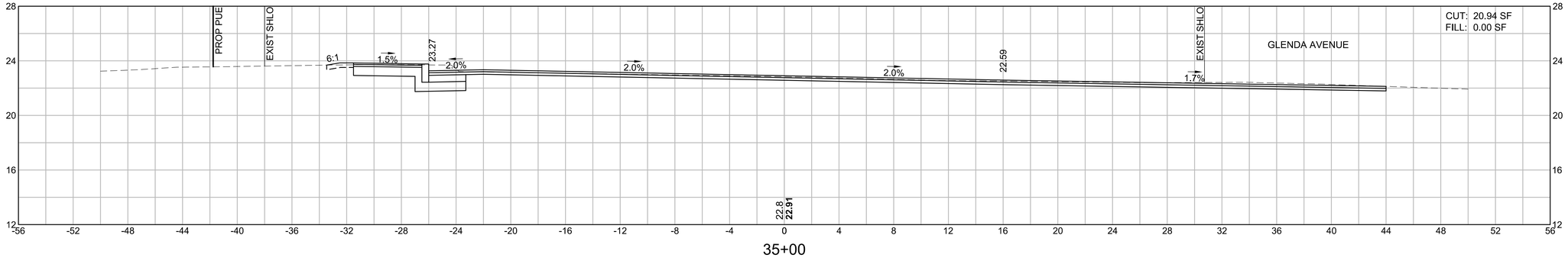


33+00

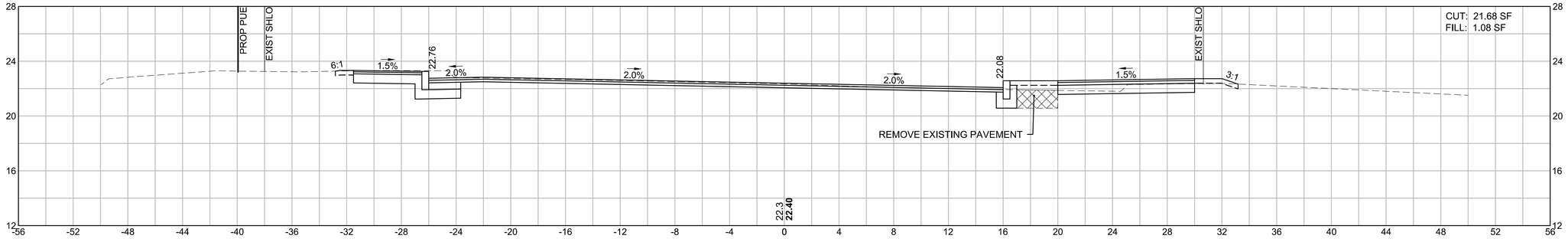
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	120	131
	PROJECT FILE NO.	610647	

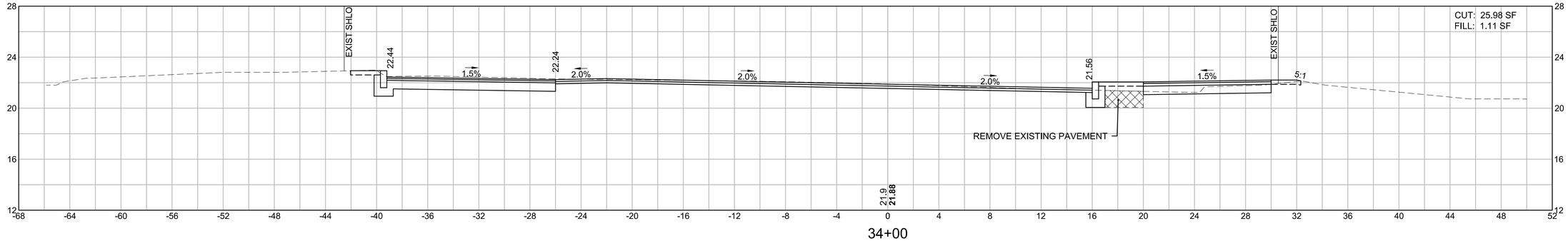
CROSS SECTIONS - MARION ROAD
STA 34+00 TO 35+00



35+00



34+50



34+00

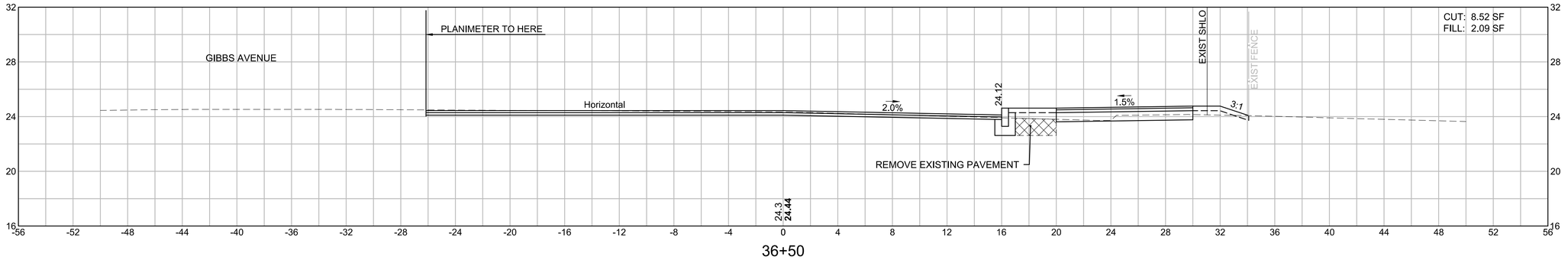
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM

WAREHAM
MARION ROAD (ROUTE 6)

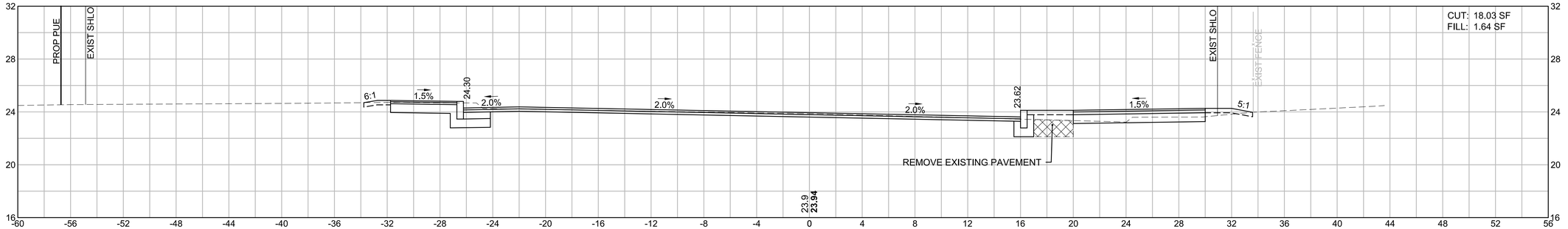
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	121	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 35+50 TO 36+50

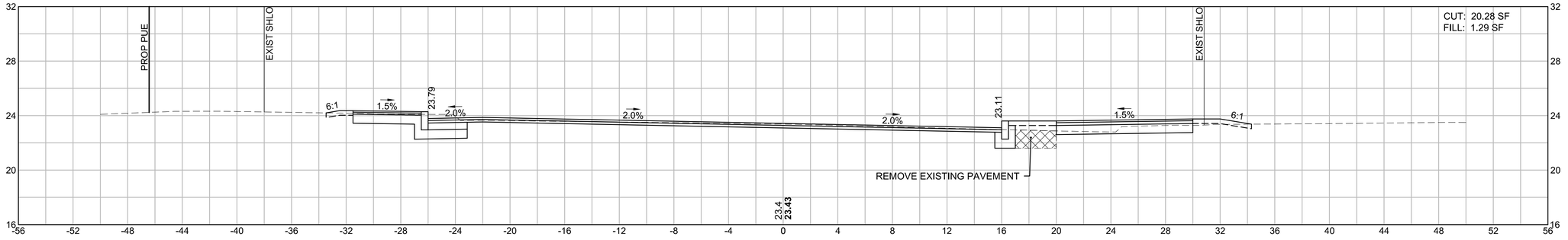
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM



36+50



36+00

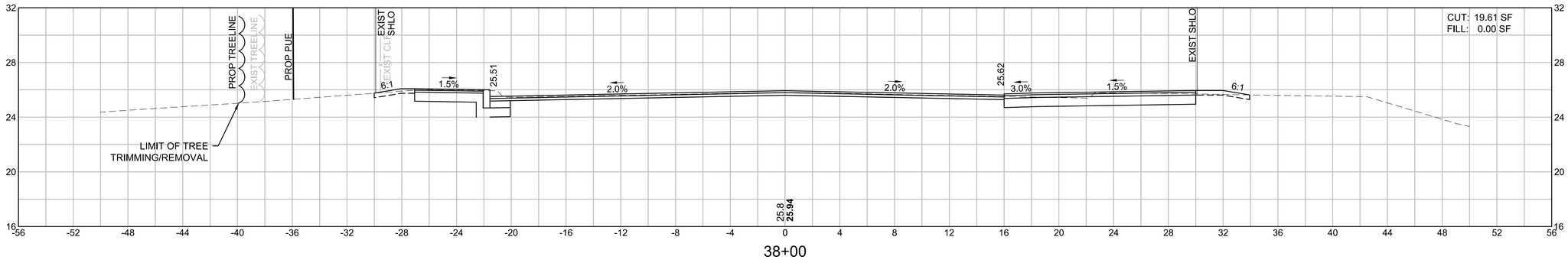


35+50

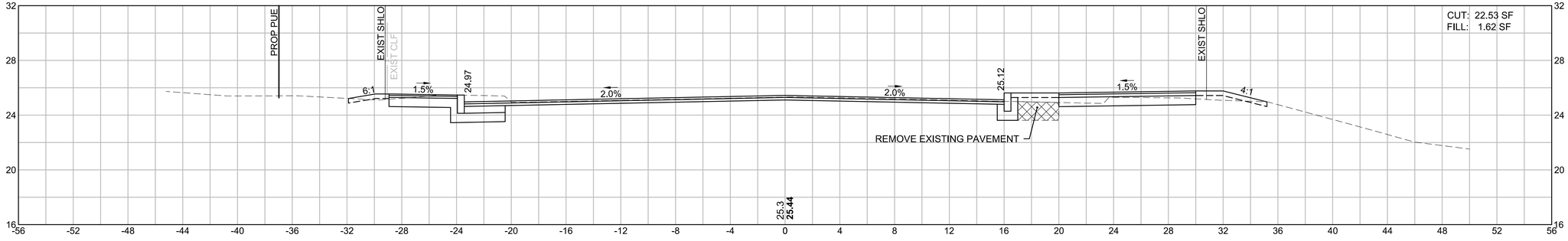
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	122	131
	PROJECT FILE NO. 610647		

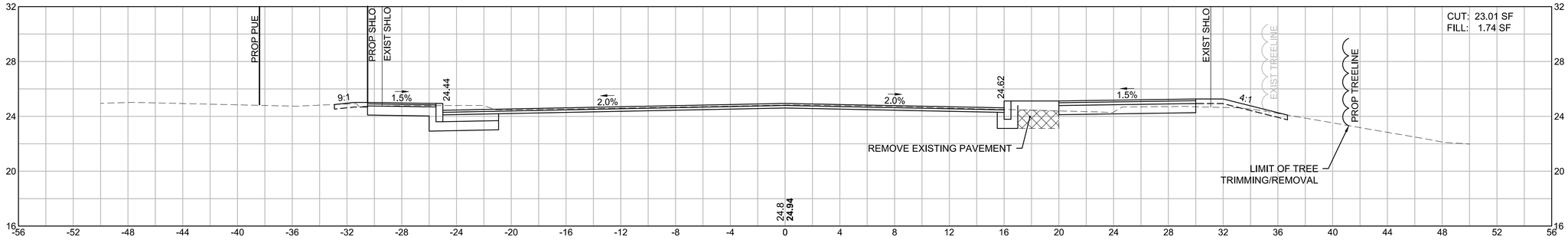
CROSS SECTIONS - MARION ROAD
STA 37+00 TO 38+00



38+00



37+50



37+00

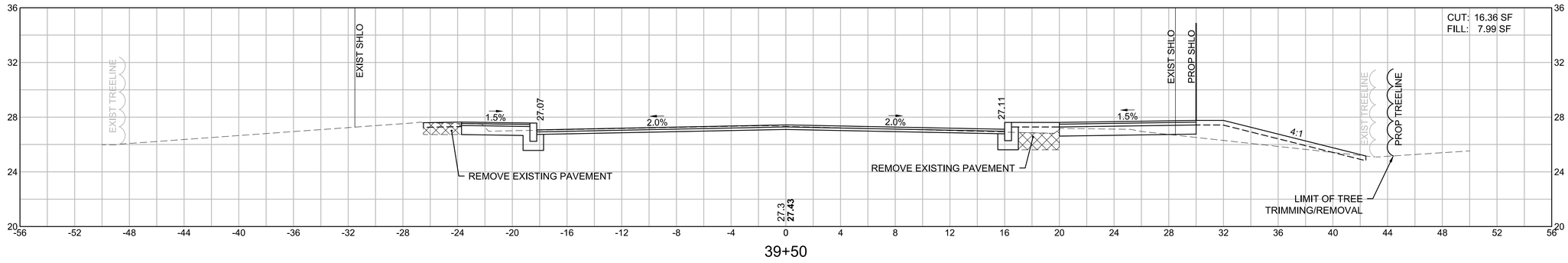
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM

WAREHAM
MARION ROAD (ROUTE 6)

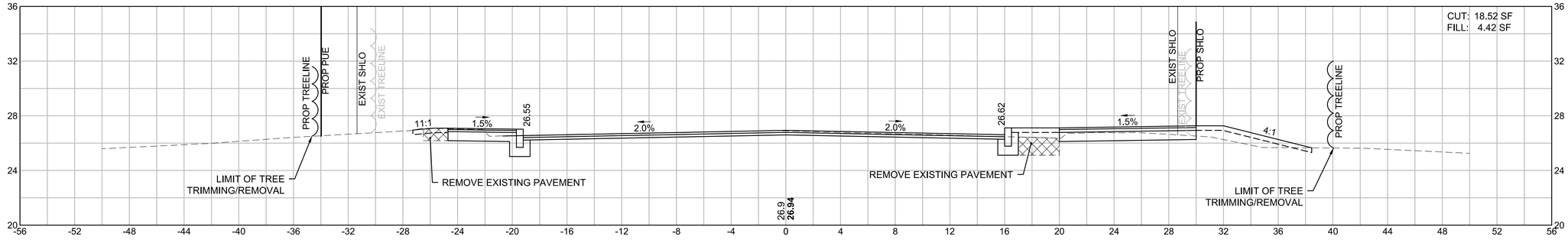
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	123	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 38+50 TO 39+50

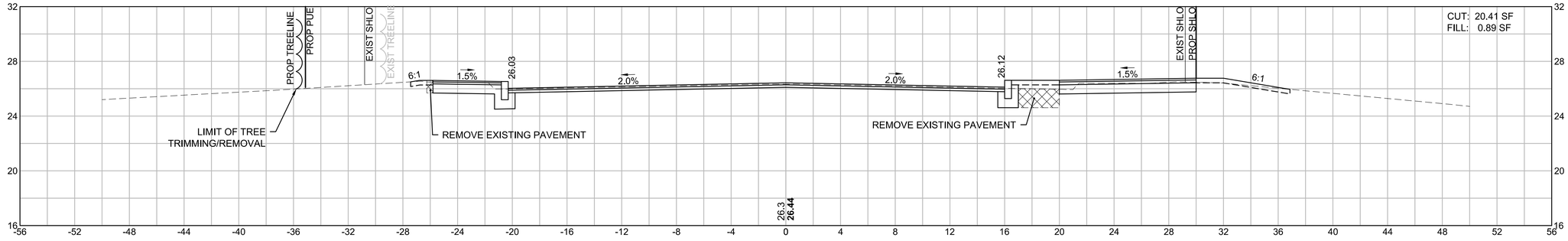
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM



39+50



39+00



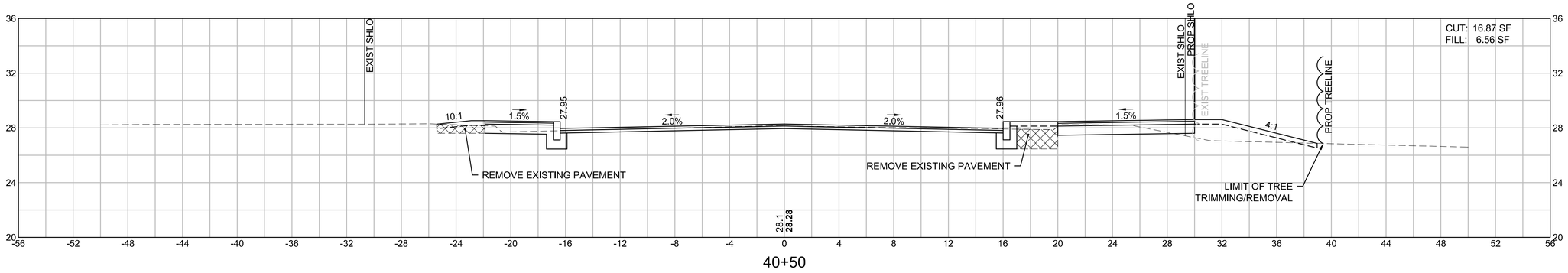
38+50

WAREHAM
MARION ROAD (ROUTE 6)

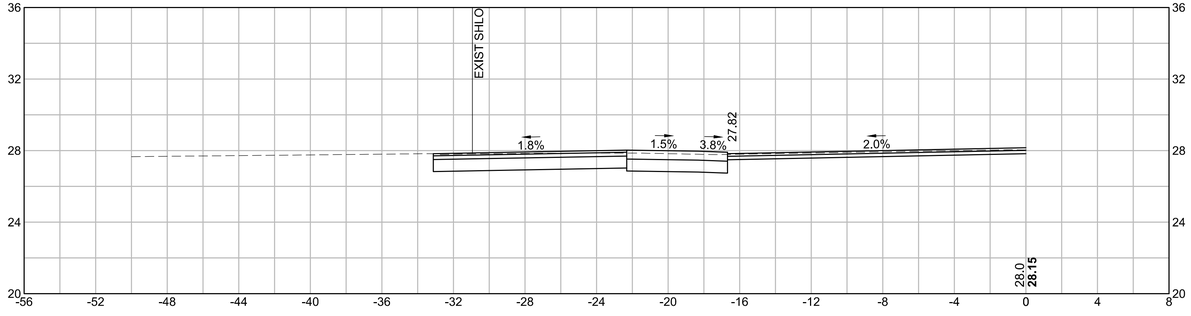
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	124	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD
STA 40+00 TO 40+50

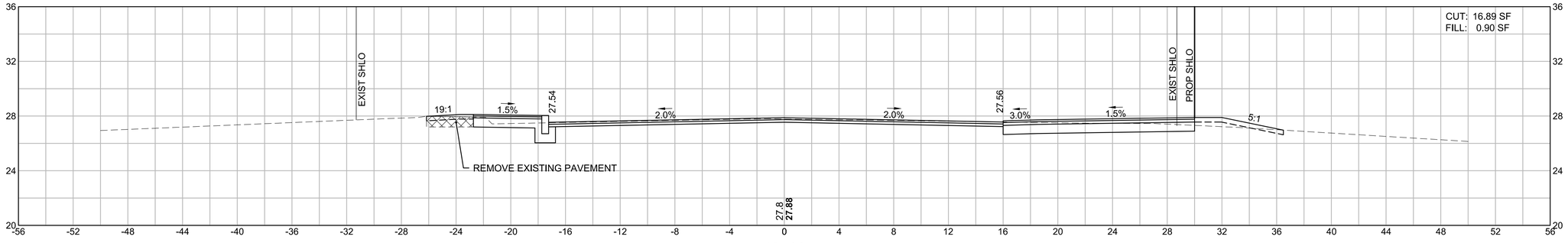
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM



40+50



40+33.31



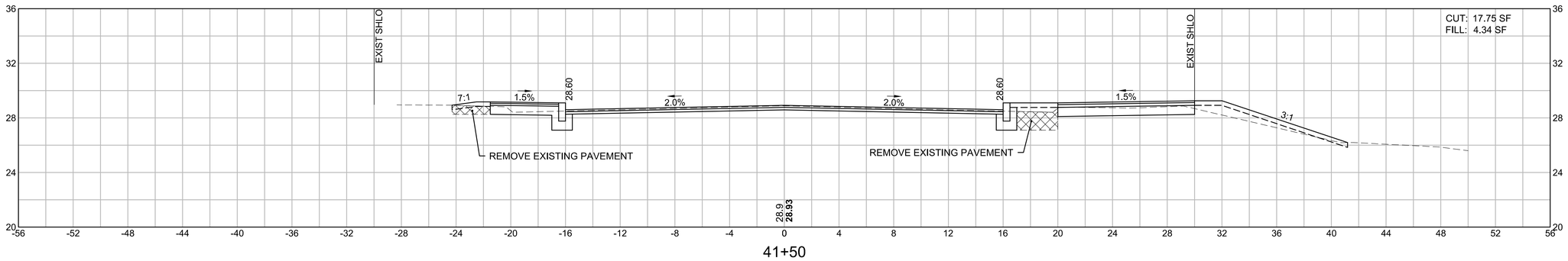
40+00

WAREHAM
MARION ROAD (ROUTE 6)

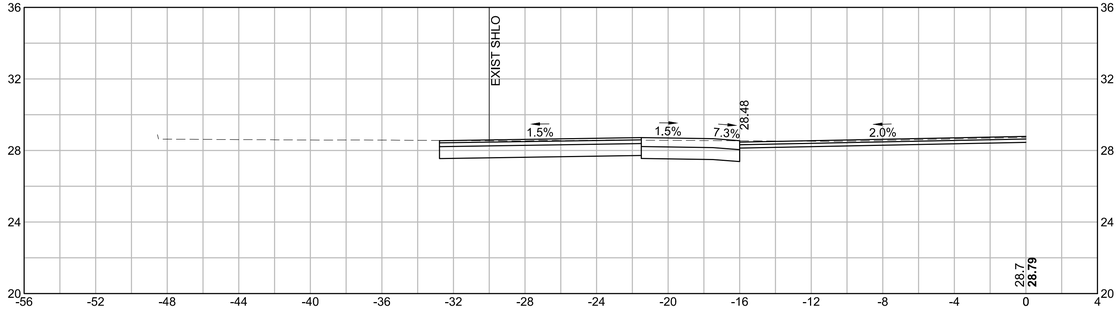
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	125	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 41+00 TO 41+50

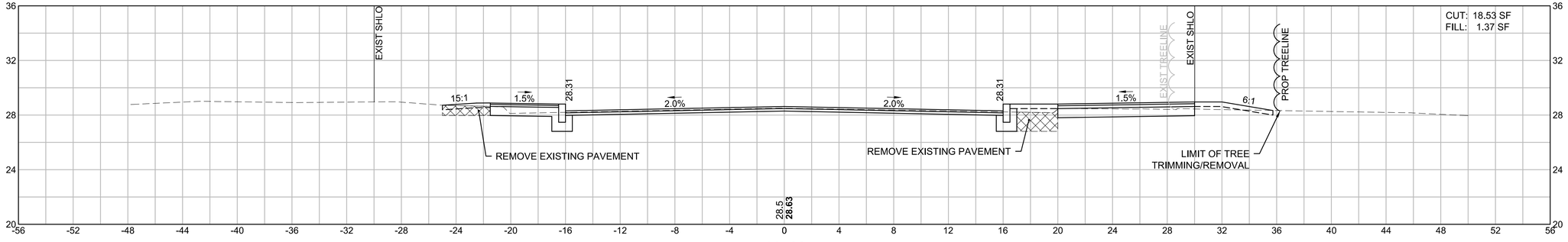
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM



41+50



41+26



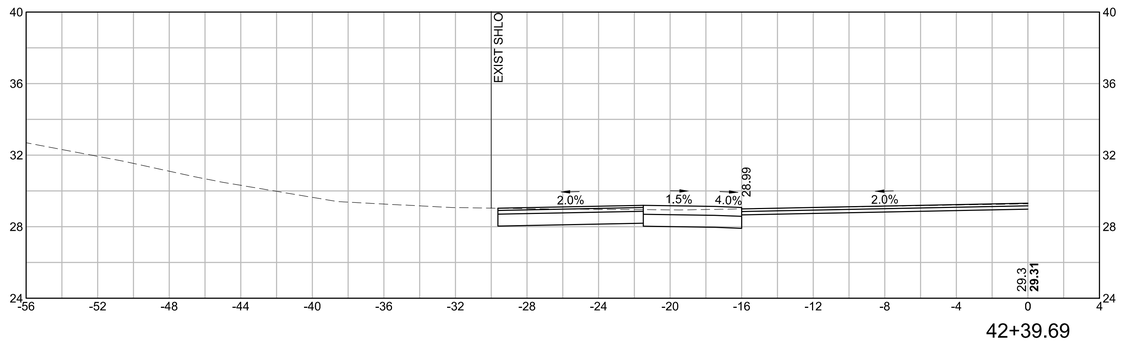
41+00

WAREHAM
MARION ROAD (ROUTE 6)

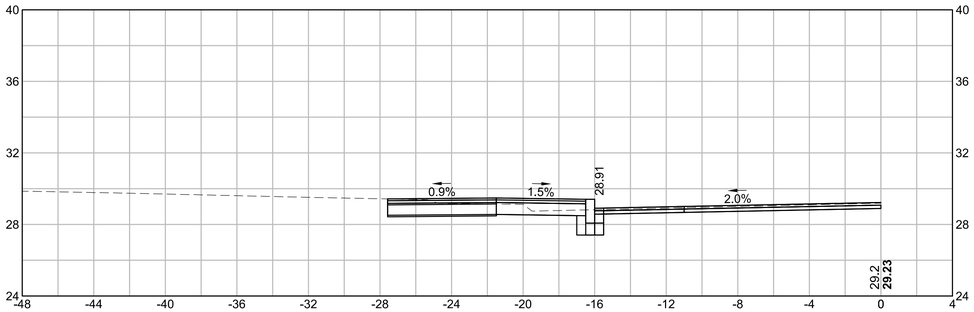
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	126	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD
STA 41+79 TO 42+40

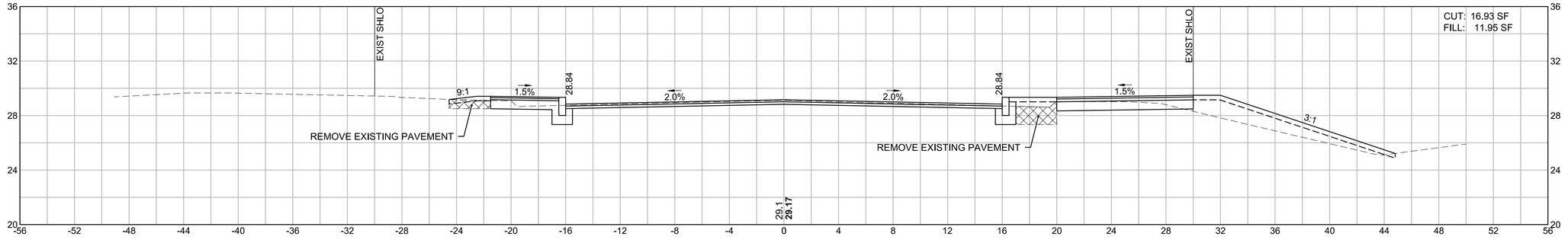
610647_HD14(X-SECTIONS_MARION).DWG Plotted on 3-Mar-2026 8:47 AM



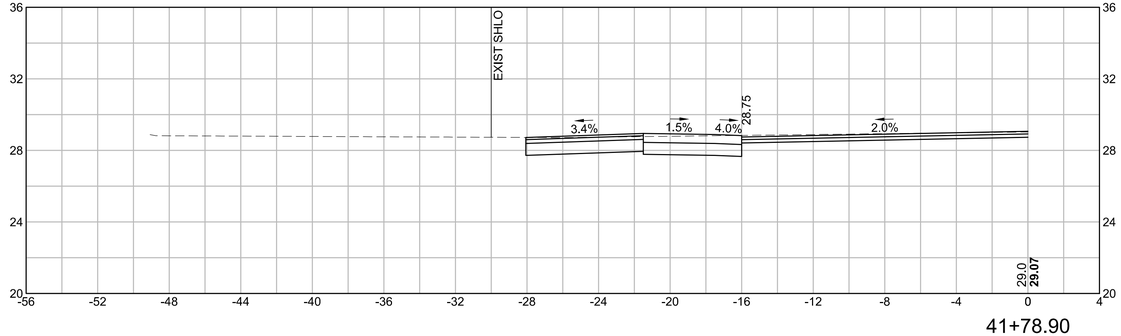
42+39.69



42+16



42+00



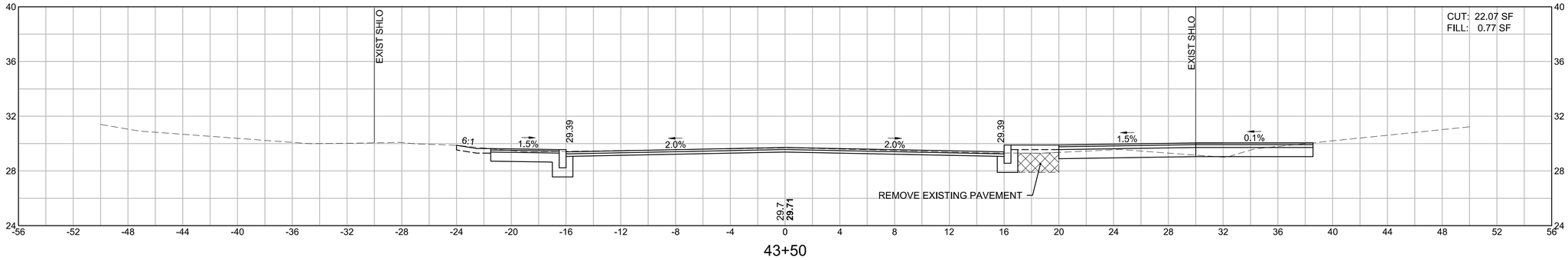
41+78.90

WAREHAM
MARION ROAD (ROUTE 6)

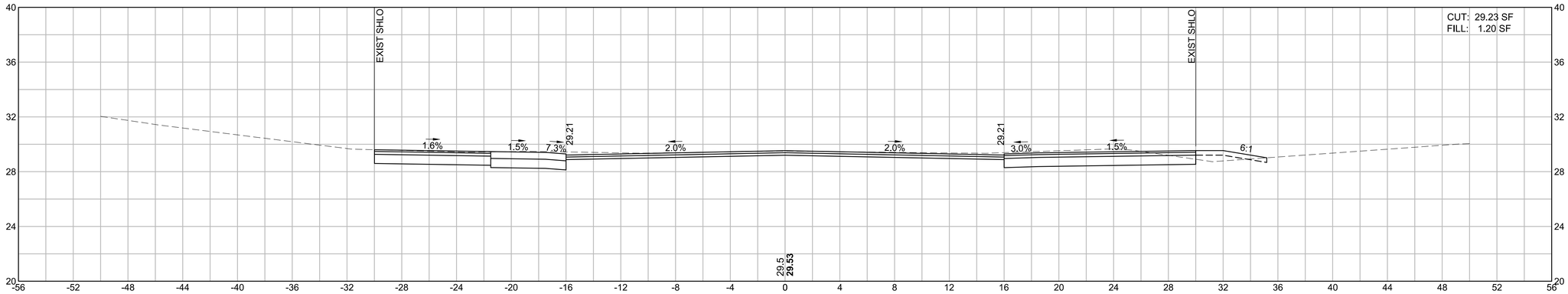
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	127	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - MARION ROAD

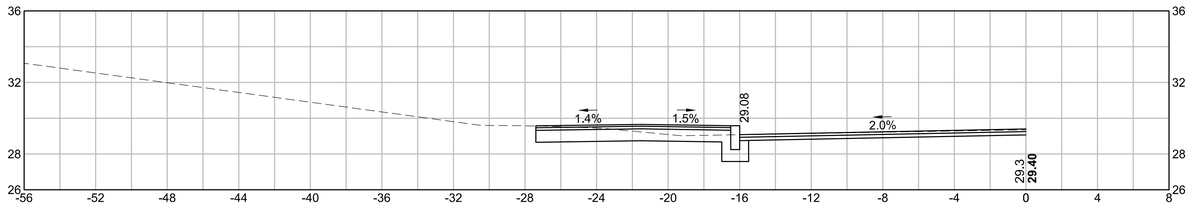
STA 42+50 TO 43+50



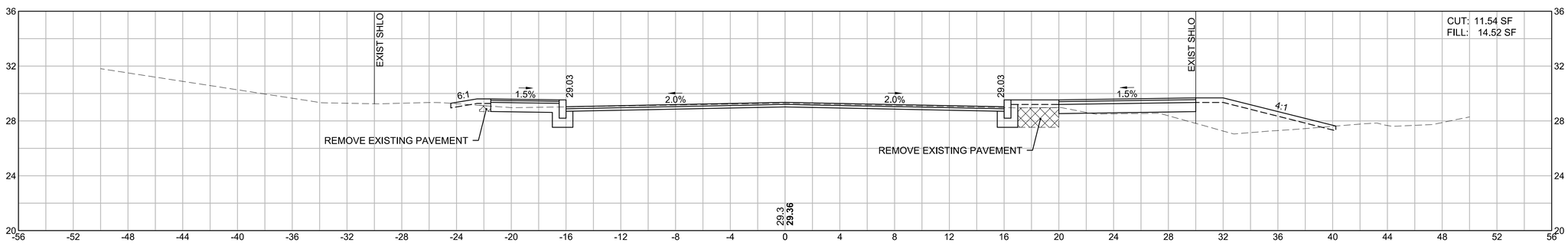
43+50



43+00



42+62



42+50

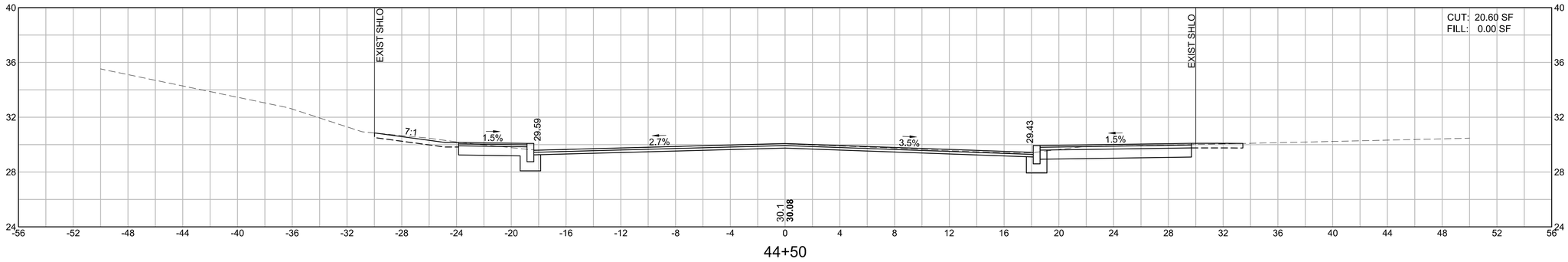
Plotted on 3-Mar-2026 8:48 AM
610647_HD14(X-SECTIONS_MARION).DWG

WAREHAM
MARION ROAD (ROUTE 6)

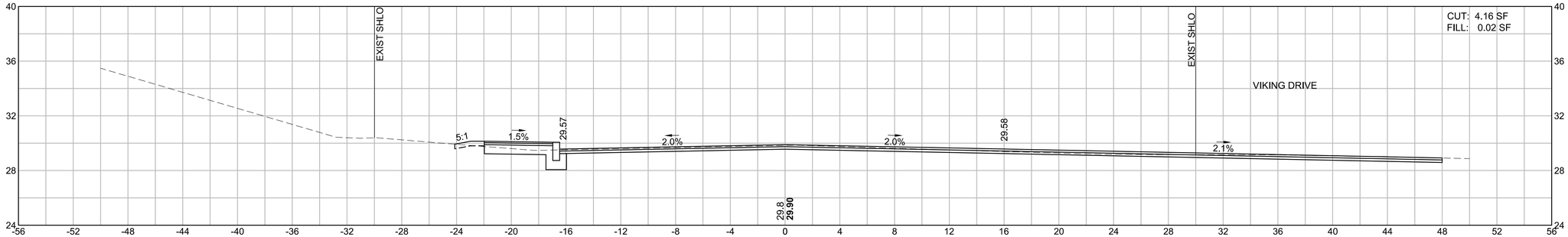
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	128	131
	PROJECT FILE NO.	610647	

CROSS SECTIONS - MARION ROAD

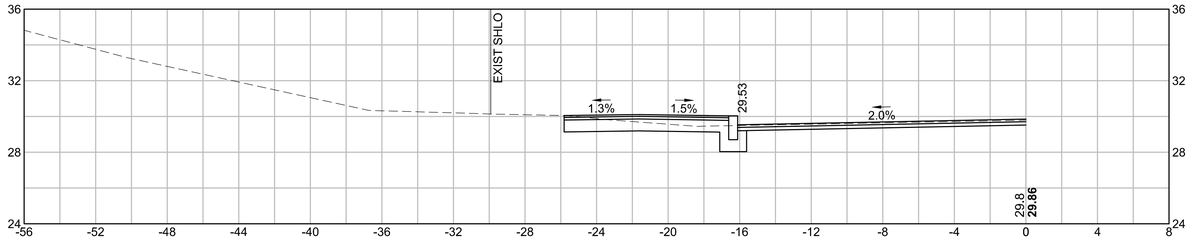
STA 43+60 TO 44+50



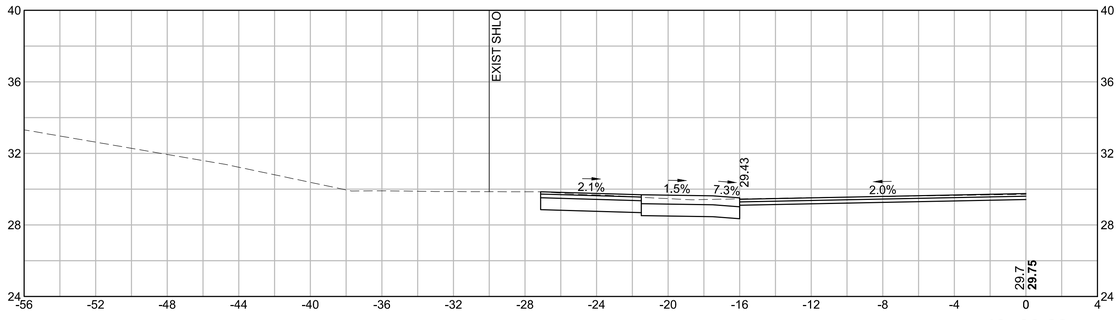
44+50



44+00



43+89



43+60.23

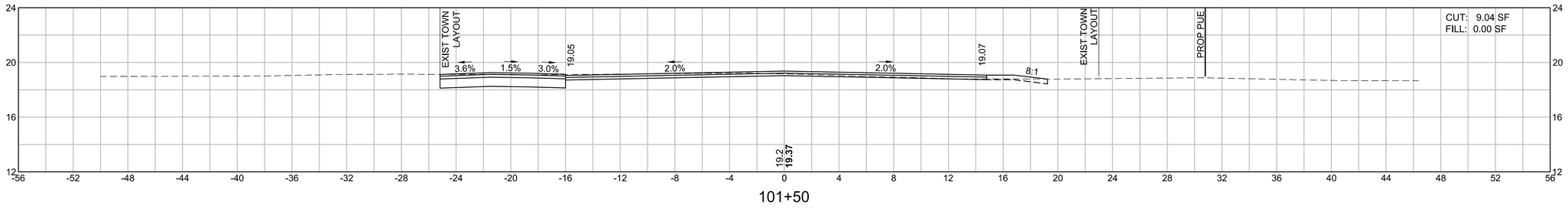
Plotted on 3-Mar-2026 8:48 AM
610647_HD14(X-SECTIONS_MARION).DWG

WAREHAM
MARION ROAD (ROUTE 6)

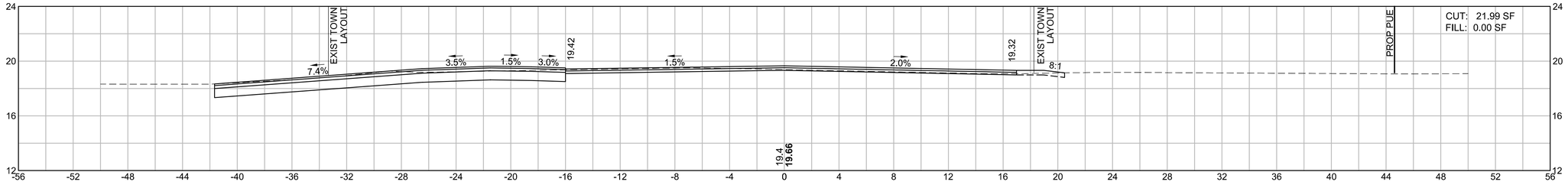
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	129	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - SWIFTS BEACH ROAD
STA 100+50 TO 101+50

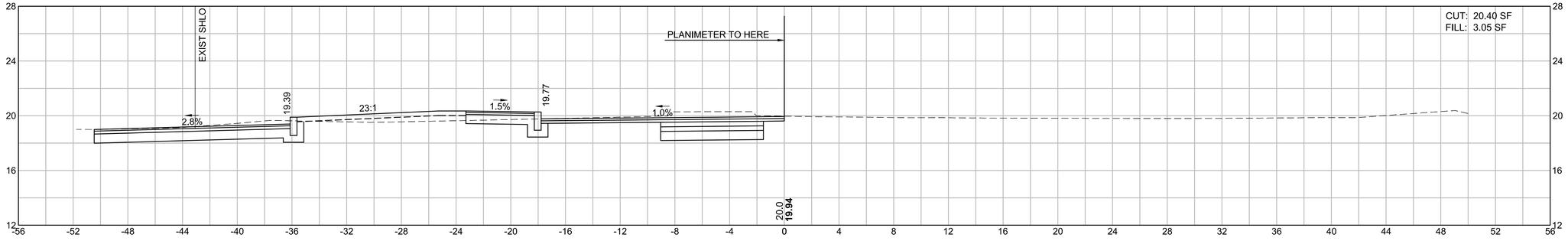
610647_HD14(X-SECTIONS_SWIFTS).DWG Plotted on 3-Mar-2026 8:48 AM



101+50



101+00



100+50

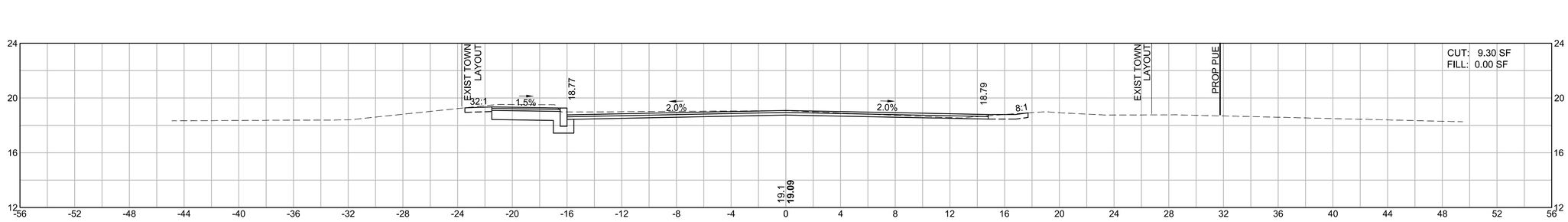
WAREHAM
MARION ROAD (ROUTE 6)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	130	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - SWIFTS BEACH ROAD

STA 101+63.93 TO 102+00

610647_HD14(X-SECTIONS_SWIFTS).DWG Plotted on 3-Mar-2026 8:48 AM



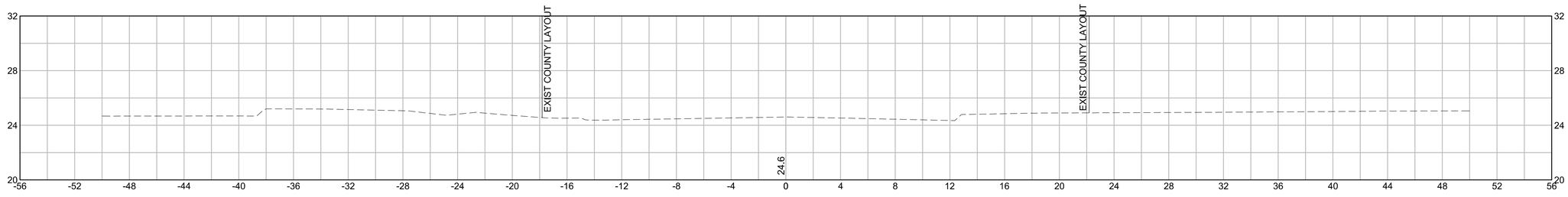
102+00

WAREHAM
MARION ROAD (ROUTE 6)

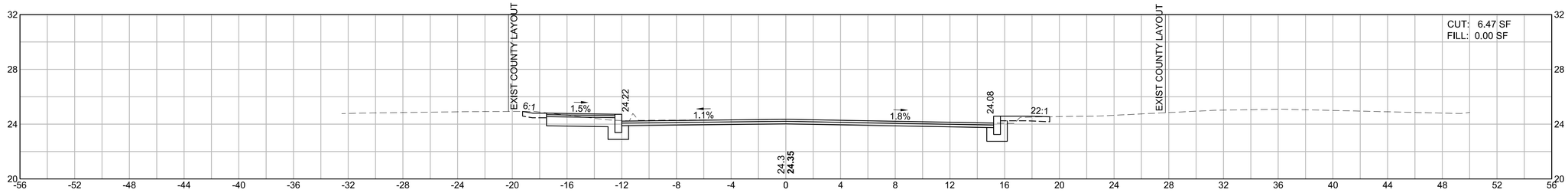
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP-0035(068)X	131	131
	PROJECT FILE NO. 610647		

CROSS SECTIONS - GIBBS AVENUE
STA 150+50 TO 151+00

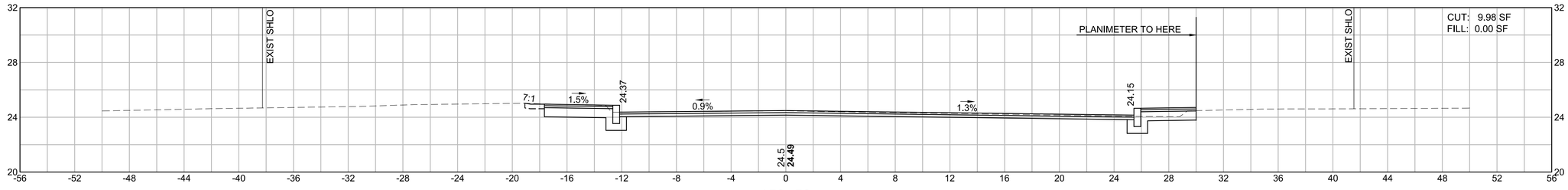
610647_HD14(X-SECTIONS_GIBBS).DWG Plotted on 3-Mar-2026 8:49 AM



151+00



150+75



150+50