



MEETING POSTING

TOWN OF NANTUCKET

Pursuant to MGL Chapter 30A, § 18-25

All meeting **notices and agenda** must be filed and time stamped with the Town Clerk's Office and posted at least 48 hours prior to the meeting (excluding Saturdays, Sundays and Holidays)

Committee/Board/s | Nantucket Historical Commission

Day, Date, and Time | Friday, February 16, 2024 10:00 AM – 12:00 PM

Location / Address | HYBRID MEETING REMOTE PARTICIPATION AND
IN PERSON at 131 Pleasant Street, Nantucket

**Signature of
Authorized Person** | Angus MacLeod (Chair)

WARNING: IF THERE IS NO QUORUM OF MEMBERS PRESENT, OR IF
MEETING POSTING IS NOT IN COMPLIANCE WITH THE OML
STATUTE, NO MEETING MAY BE HELD!

Angus MacLeod (Chair), Rita Carr (Vice Chair), Abby De Molina (Secretary), George Butterworth, Clement Durkes, Thomas M. Montgomery, Milton Rowland

Staff Liaison: Holly Backus

Join Zoom Meeting

<https://us06web.zoom.us/j/94332358504?pwd=N25KSGR2QldOeWFuc2tkUXcvaERGdz09>

Meeting ID: 943 3235 8504

Passcode: 770019

One tap mobile

+16465588656,,94332358504#,,,,*770019# US (New York)

AGENDA

Please list below the topics the chair reasonably anticipates will be discussed at the meeting

- Public Comment
- Staff Update
 - Demo delay update
 - NAPC review – February 21 presentation
 - CPC Submitted projects update
 - Nantucket Offshore Wind Community Fund submitted projects update
- Ongoing survey work
 - FY23 update on RFQ process
 - Application for FY24 – pre-application accepted to move forward
- Section 106 Review – Mass DOT Project 613129, Milestone and Polpis Rd Intersection
- NHC Goals
- Approval of Minutes – January 19, 2024 meeting
- Other Business

May 30, 2023

RE: Nantucket: Intersection Improvements at Milestone Road at Polpis Road
MassDOT project number: 613129
Section 106 Review — Early Environmental Coordination

Mr. Angus MacLeod, Chair
Nantucket Historic Commission
2 Fairground Road
Nantucket, Massachusetts 02554

Dear Mr. MacLeod and Members of the Commission:

Greenman-Pedersen Inc. proposes intersection improvements on Milestone Road at Polpis Road in Nantucket, Massachusetts. This project will be supported in part with federal funds dispersed through the Massachusetts Department of Transportation (MassDOT). The project, therefore, will require review under Section 106 of the National Historic Preservation Act of 1966 as amended (36 CFR 800). The enclosed project information is provided to the Nantucket Historical Commission to initiate consultation with appropriate representatives of local government in compliance with the regulations governing Section 106.

The Project limits for the intersection work extend approximately 150 feet from the intersection along each leg of Milestone Road and extend approximately 500 feet from the intersection along Polpis Road. The Project also includes the construction of a shared use path on the northern side of Milestone Road between Monomoy Road and the Polpis Bike Path. The project limits for the shared use path begin at Monomoy Road and extend to the east along Milestone Road for approximately 1,600 feet to the Polpis Bike Path.

The purpose of the Project is to improve intersection operations and safety at the Milestone Road at Polpis Road intersection through intersection reconstruction and realignment. The Project will also improve existing mobility for pedestrians and bicyclists through the construction of a shared use path between Monomoy Road and the Polpis Bike Path on the northern side of Milestone Road.

In its existing condition, there are numerous deficiencies along this segment of Milestone Road including, a lack of sidewalks or other pedestrian accommodations along the northern segment of Milestone Road, poor intersection configuration at the Milestone Road at Polpis Road intersection which currently operates as a three-way unsignalized intersection with two traffic islands resulting in confusion for drivers, and a lack of Americans with Disabilities Act (ADA) / Architectural Access Board (AAB) compliant crosswalks and pedestrian curb ramps.

The primary improvements proposed by the Project will include the reconstruction and realignment of the Milestone Road at Polpis Road intersection to form a "T" intersection with "STOP" control and construction of a 10-foot wide shared use path along the north side of Milestone Road within the project limits. Roadway reconstruction will be accomplished through mill and hot mix asphalt (HMA) overlay. The proposed shared use path will be constructed using full depth construction and HMA overlay. The Project will also construct ADA / AAB compliant pedestrian curb ramps at all crosswalks, improve existing drainage infrastructure, install slotted pavement markers, and install Manual Uniform Traffic Control Devices (MUTCD) compliant regulatory and warning signage.

Mr. MacLeod
May 30, 2023
Page 2 of 2

Greenman-Pedersen Inc. requests that the Nantucket Historical Commission review the enclosed materials at their earliest convenience, and solicits any comments regarding historic properties that may be within or adjacent to the project area. Please submit written comments to: Patricia A. Leavenworth, P.E., Chief Engineer, Massachusetts Department of Transportation, Highway Division, 10 Park Plaza, Boston, MA 02116, Attn: Jeffrey Shrimpton, Room 4260. Comments also may be submitted by e-mail to jeffrey.shrimpton@state.ma.us. Please include the six-digit MassDOT project number on all correspondence.

Please feel free to contact Jeffrey Shrimpton (857.368.8824) of MassDOT Highway Division's Cultural Resources Unit if you have any questions concerning this project or the Section 106 review process,

Sincerely,

Greenman-Pedersen, Inc.



Samuel Campbell
Environmental Scientist

atts: USGS Site Locus Map

ccs: Brana Simon, Massachusetts Historical Commission, with atts. (by mail)
Jeffrey Shrimpton, MassDOT Highway Division, with atts. (by email)
Adam Kiel, MassDOT Project Manager
Carleigh Norton, MassDOT Highway Division – Environmental Analyst
Eric Riese, GPI Project Manager



GPI

Engineering
Design
Planning
Construction Management

978.570.2999

GPINET.COM

Greenman-Pedersen, Inc.
181 Ballardvale Street
Suite 202
Wilmington, MA 01887

0 250 500 750 1000
SCALE: 1" = 250'

**INTERSECTION IMPROVEMENTS AT
MILESTONE ROAD AND POLPIS ROAD
NANTUCKET, MA**



CULTURAL RESOURCES PROJECT RECORD

City/Town:	Nantucket	Project #	613129	Date Cleared	7/6/2023
Project Name	INTERSECTION IMPROVEMENTS AT MILESTONE ROAD AND POLPIS ROAD AND BIKEPATH EXTENSION	Date Filed	7/6/2023	Finding Under Review	☐
		FHWA to MHC			
Project Type:	Safety Improvements	Early Coord. Letter Sent:	☒	Reviewer:	JMH
Review:	Section 106 (PA)	Comment Received:	☐ MHC ☐ LHC	Consultant	
Finding:	Stip VB - No historic properties affected				
Comment	No historic 4(f) as permanent easement within Nantucket HD is not from a contributing property.				

Determination based on: ☒ Scope of Work ☒ Plan ☒ Inventory ☐ Site Visit ☐ Archaeological Survey
Attach appropriate documentation for checked items

Projects Requiring No Massachusetts SHPO Review

Programmatic Agreement, Appendix 1 (check all that apply) :

- | | |
|---|---|
| ☐ 1) Interstate bridge or roadway projects | ☐ 16) Bridge (less than 20' span) |
| ☐ 2) Resurfacing, repair existing roadways | * ☐ 17) Highway safety improvement |
| * ☐ 3) Reconstruction on existing roadway | ☐ 18) Drainage system element |
| * ☐ 4) Roadway geometrics, intersections | * ☐ 19) Traffic signal, safety improvement |
| * ☐ 5) Curbs and sidewalks | * ☐ 20) Intelligent Transportation System project |
| ☐ 6) Pavement markings, rumble strips, etc | ☐ 21) Rest area, maintenance facility |
| ☐ 7) Curbs, sidewalks (MAAB, ADA) | * ☐ 22) Bicycle, pedestrian lane, path or facility |
| * ☐ 8) Removal of trees | ☐ 23) Lighting system |
| ☐ 9) Landscaping | ☐ 24) Sign |
| ☐ 10) Utilities | ☐ 25) Hazardous waste |
| ☐ 11) Railroad crossing | ☐ 26) Highway fencing |
| ☐ 12) Stream stabilization and restoration | ☐ 27) Emergency repair |
| ☐ 13) Wetland mitigation area | ☐ 28) Erosion control |
| * ☐ 14) Bridge (NR "Not Eligible" or "Conditionally Not Eligible") | ☐ 29) Noise barrier |
| * ☐ 15) Bridge (concrete slab post 1900, steel stringer) | * National Register eligibility evaluation required |

-OR-

No Historic Properties Affected

Programmatic Agreement Stipulation V.B. (check one):

- ☐ No NR listed or -eligible properties within Area of Potential Effect
☒ No effect on National Register listed or -eligible properties

Reviewer's Initials: *JMH SD*



CULTURAL RESOURCES PROJECT RECORD

Summary of MassDOT Highway Division Finding (Appendix 1 and Section V.B. Projects only)

MassDOT proposes intersection improvements at Milestone Road and Polpis Road in Nantucket. The Milestone Road project area extends 0.39 miles easterly from Monomoy Road to the Polpis Bike Path Connection. An existing bike path (Sconset Bike Path) extends along the south side of Milestone Road within the project corridor. Buried and overhead utilities are located within the project corridor. The project will remove pavement from the Polpis Road approach to Milestone Road to modify the existing "Y" intersection into a "T" intersection. The approach pavement to be removed will be replaced with loam and seed. The intersection work will occur within the existing roadway pavement and shoulders. Milestone Road will also be repaved approximately 275 ft. easterly and 425 ft. westerly of the Polpis Road intersection.

The project work also includes constructing a new 10-ft. wide asphalt shared use path along the north side of Milestone Road within the project corridor. The proposed path alignment east of Polpis Road will be confined to an existing 15-ft. wide bike path easement. The proposed path alignment west of Polpis Road will be confined to the existing county layout. Additional project work includes: removing trees within the proposed path alignment; protecting trees and landscaping plants adjacent to the proposed path alignment; placing loam and seed; constructing a grass swale between Station 19 + 30 and Station 21 + 03; repaving driveway aprons; upgrading existing drainage (upgrade existing concrete drainage piping and flared end, modified rockfill forebay weir, concrete paver for sediment forebay near Station 26 + 00 RT); and installing a flush granite rubble block traffic island at the Polpis Road approach to Milestone Road. A permanent easement from Town of Nantucket property (Parcel X-D-1 = 9,077 sq. ft.) will be required on the south side of Milestone Road to accommodate the proposed drainage upgrades.

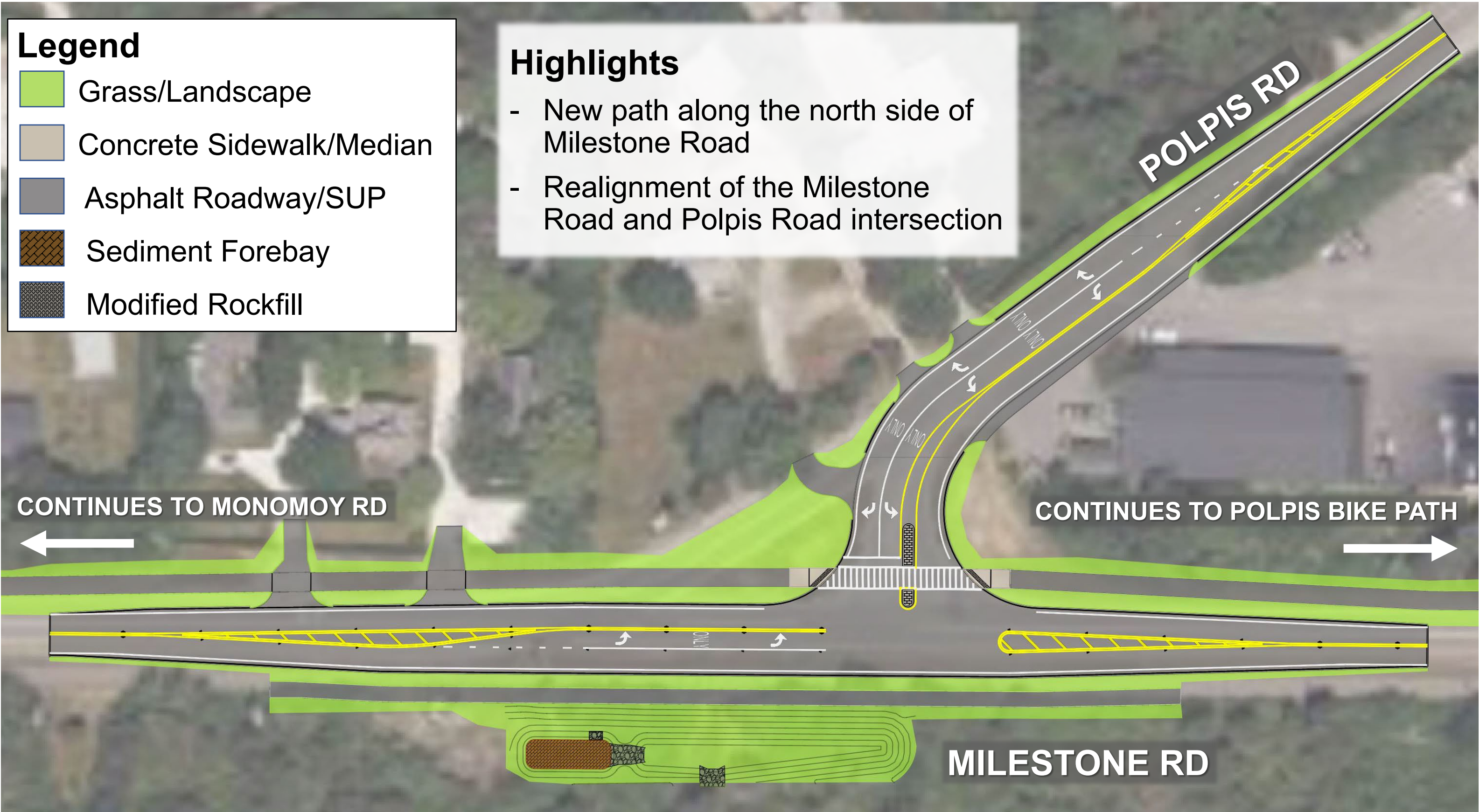
A review of the National Register of Historic Places revealed that the project area is within the Nantucket Historic District (NAN.D), a National Historic Landmark that encompasses the entire island of Nantucket. A review of the Inventory of Historic and Archaeological Assets revealed no inventoried buildings adjacent to the project area. The buildings adjacent to the project area are a mix of twentieth century residential and commercial buildings, the majority of which were constructed in the 1960s or later. The proposed project area is entirely outside of the Old Historic District Core Area, as indicated on a map provided on the Town of Nantucket's website. The project work has no potential to affect any of the character-defining elements or features of the island that qualified the Nantucket Historic District for listing in the National Register of Historic Places and designation as a National Historic Landmark.

A review of the MHC's archaeological maps in MACRIS revealed numerous recorded pre-contact sites in the vicinity of the Milestone Road project area. The nearest recorded sites include 19-NT-76 (The Creeks - Judge Poland Find Spot) and 19-NT-114 (Monomoy Site). In 1980, an archaeological survey was conducted within the current Milestone Road project corridor in advance of a wastewater transmission facilities project. No significant sites were identified near the current Milestone Road project area as part of the 1980 survey. Additional surveys were conducted near the current project area in 1990, 1994, and 2004 in advance of the Polpis Road Bicycle Path project. Significant sites were identified and investigated as part of these surveys; however, no significant sites were identified within the current project's APE. Although undisturbed areas of Nantucket are sensitive for archaeological resources, it is the opinion of the MassDOT Archaeologist that low sensitivity can be ascribed to the project's direct APE based on the results of previous archaeological surveys, the impacts of past roadway, bikepath, utility, and drainage construction, and roadside development. Buried water and telephone utilities are located within and adjacent to the proposed path alignment along the north side of Milestone Road. The proposed drainage work near Station 26 + 00 RT will upgrade existing structures in an unfavorable area adjacent to the Sconset bike path.

An early coordination letter was forwarded to the Nantucket Historical Commission on May 30, 2023. A copy was forwarded to the MHC. To date, no comments have been received from either Commission. PNFs were submitted to the ATHPO and MTHPO on July 6, 2023.

Reviewer's Initials: _____

Proposed Design



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF
MILESTONE ROAD AT POLPIS ROAD

IN THE TOWN OF
NANTUCKET
NANTUCKET COUNTY

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

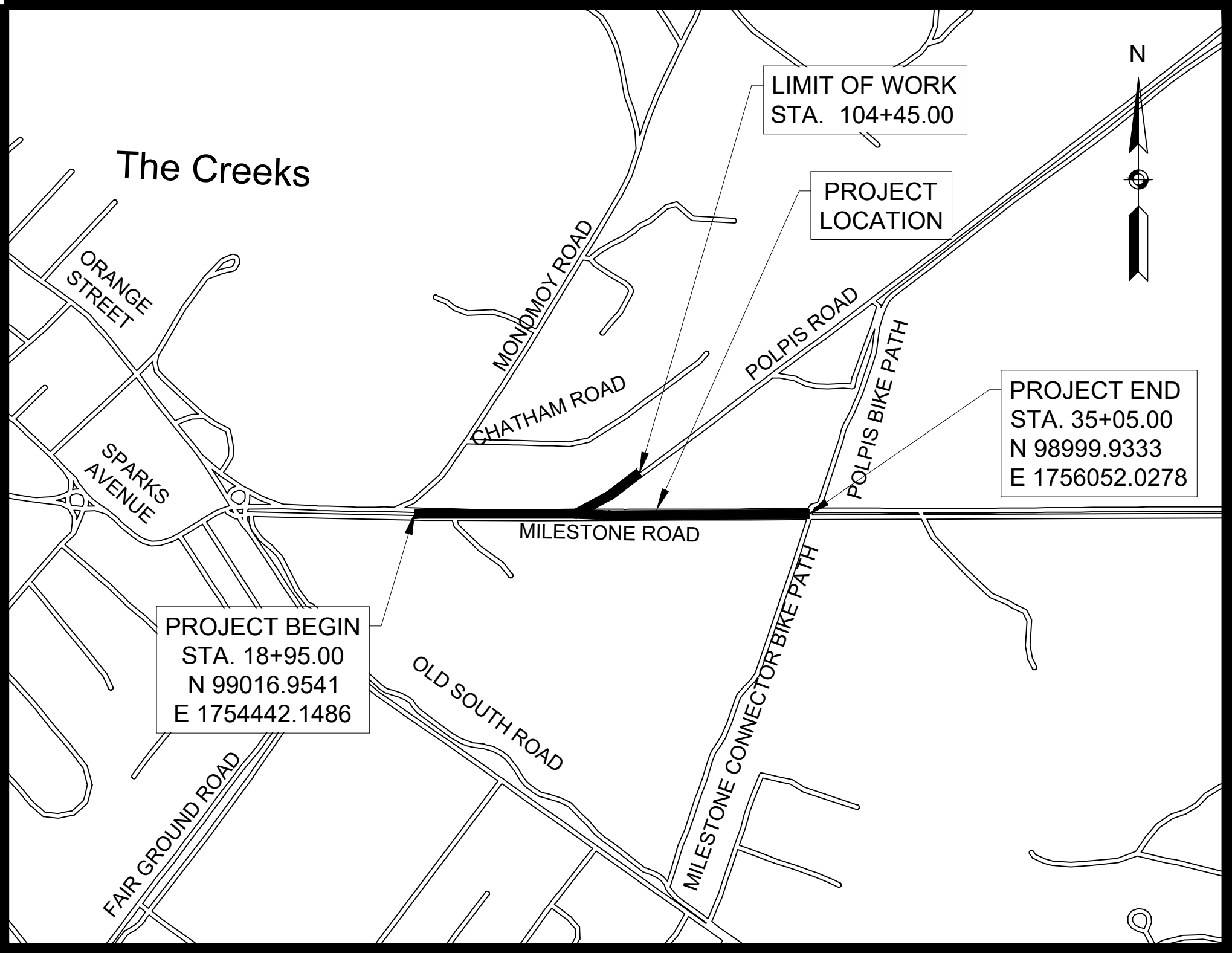
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	48
PROJECT FILE NO.		613129	

TITLE SHEET & INDEX

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

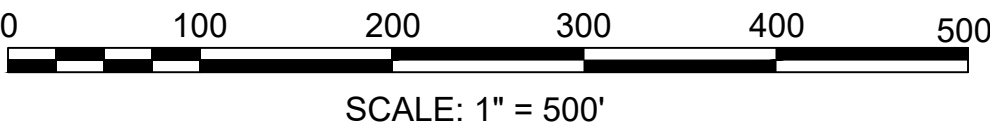
25% / 75% SUBMISSION

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	KEY PLAN
4	TYPICAL SECTIONS
5 - 7	CONSTRUCTION BASELINE TIES
8 - 10	CONSTRUCTION PLANS
11 - 13	CONSTRUCTION PROFILES
14 - 16	CURB TIE & GRADING PLANS
17 - 19	DRAINAGE & UTILITY PLANS
20 - 22	TRAFFIC SIGN & PAVEMENT MARKING PLANS
23	TRAFFIC SIGN SUMMARY SHEET
24	TRAFFIC LEGEND ABBREVIATIONS & NOTES
25 - 27	TEMPORARY TRAFFIC CONTROL PLANS
28 - 30	CONSTRUCTION DETAILS
31	PEDESTRIAN CURB RAMP & DRIVEWAY DETAILS
32 - 48	CROSS SECTIONS



DESIGN DESIGNATION (MILESTONE ROAD)

DESIGN SPEED	35 MPH
ADT (2023)	19,800
ADT (2030)	20,149
K	7.2%
D	54% WB
T (PEAK HOUR)	2.6%
T (AVERAGE DAY)	0.7%
DHV	1,430
DDHV	770
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL



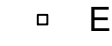
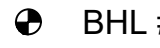
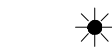
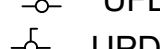
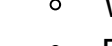
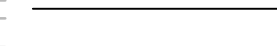
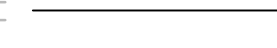
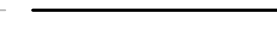
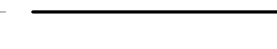
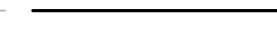
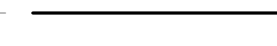
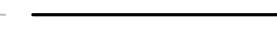
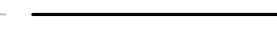
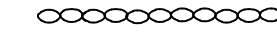
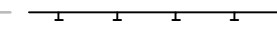
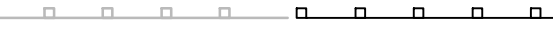
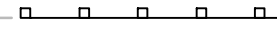
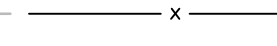
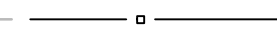
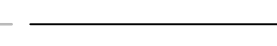
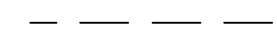
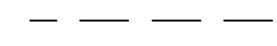
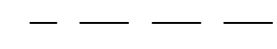
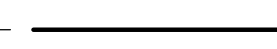
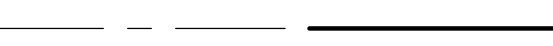
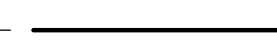
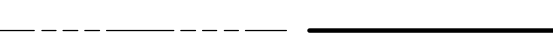
LENGTH OF PROJECT = 2,055.00 FEET = 0.39 MILES

MAY 2023

	DATE	DESCRIPTION	REV #
APPROVED			
CHIEF ENGINEER, P.E.		DATE	

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

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 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
		TREE
		STUMP
		SWAMP / MARSH
 WG	 WG	WATER GATE
 PM	 PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE/COMPOST FILTER TUBES
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

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
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
CIT	CHANGE IN TYPE
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

GENERAL NOTES

- TOPOGRAPHICAL INFORMATION WAS PROVIDED BY MASSDOT, AUGUST 2017 (508-824-6633). SUPPLEMENTAL SURVEY WAS PROVIDED BY GREENMAN-PEDERSEN, INC. JANUARY 2018, MARCH 2021 & APRIL 2023. VERTICAL DATUM IS BASED ON NAVD88. HORIZONTAL DATUM IS BASED ON MA ISLAND ZONE NAD83 (2011).
- THE LOCATIONS AND SIZES OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R&R).
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL EXISTING [STATE, COUNTY, CITY AND TOWN] LOCATION LINES HAVE BEEN ESTABLISHED BY CADASTRAL SURVEY AND FOUND MONUMENTATION. PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- ALL TRANSVERSE JOINTS, AND ALL LONGITUDINAL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT POURED RUBBERIZED ASPHALT ADHESIVE MEETING THE REQUIREMENTS OF ITEM 453.
- ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM BORROW PLACED AND SEEDED. THE LOAM BORROW SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
- THE LIMIT OF WORK AREA SHALL BE THE STREET RIGHT OF WAY UNLESS SHOWN OTHERWISE.
- PRIOR TO THE START OF ANY NEW UTILITY WORK, ALL ELEVATIONS OF EXISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIED. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES OCCUR.
- ALL CASTINGS SHALL BE SET FLUSH WITH FINISHED GRADE.
- ALL PUBLICLY OWNED GATE BOXES, SERVICE BOXES, MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
- ALL NEW SIDEWALKS AND DRIVEWAY GRADES SHALL MATCH EXISTING GRADES AT BACK OF SIDEWALK LINE UNLESS SHOWN OTHERWISE ON THE PLANS AND CROSS SECTIONS.
- THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL EXISTING TREES AND ROOTS THAT ARE NOT DESIGNATED FOR REMOVAL.
- CONTRACTOR TO CONTACT ENGINEER PRIOR TO INSTALLATION OF BOUNDS FOR FINAL LOCATIONS.
- DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

GENERAL ABBREVIATIONS

DIP	DUCTILE IRON PIPE	NIC	NOT IN CONTRACT	SMH	SEWER MANHOLE
DW	STEADY DON'T WALK - PORTLAND ORANGE	NO.	NUMBER	ST	STREET
DWY	DRIVEWAY	PC	POINT OF CURVATURE	STA	STATION
ELEV (or EL.)	ELEVATION	PCC	POINT OF COMPOUND CURVATURE	SSD	STOPPING SIGHT DISTANCE
EMB	EMBANKMENT	P.G.L.	PROFILE GRADE LINE	SHLO	STATE HIGHWAY LAYOUT LINE
EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	SW	SIDEWALK
EXIST (or EX)	EXISTING	POC	POINT ON CURVE	T	TANGENT DISTANCE OF CURVE/TRUCK %
EXC	EXCAVATION	POT	POINT ON TANGENT	TAN	TANGENT
F&C	FRAME AND COVER	PRC	POINT OF REVERSE CURVATURE	TEMP	TEMPORARY
F&G	FRAME AND GRATE	PROJ	PROJECT	TC	TOP OF CURB
FDN.	FOUNDATION	PROP	PROPOSED	TOS	TOP OF SLOPE
FLDSTN	FIELDSTONE	PSB	PLANTABLE SOIL BORROW	TYP	TYPICAL
GAR	GARAGE	PT	POINT OF TANGENCY	UP	UTILITY POLE
GD	GROUND	PVC	POINT OF VERTICAL CURVATURE	VAR	VARIES
GG	GAS GATE	PVCC	POINT OF VERTICAL COMPOUND CURVATURE	VERT	VERTICAL
GI	GUTTER INLET	PVI	POINT OF VERTICAL INTERSECTION	VC	VERTICAL CURVE
GIP	GALVANIZED IRON PIPE	PVRC	POINT OF VERTICAL REVERSE CURVATURE	WCR	WHEEL CHAIR RAMP
GRAN	GRANITE	PVT	POINT OF VERTICAL TANGENCY	WG	WATER GATE
GRAV	GRAVEL	PVMT	PAVEMENT	WIP	WROUGHT IRON PIPE
GRD	GUARD	PWW	PAVED WATER WAY	WM	WATER METER/WATER MAIN
HDW	HEADWALL	R	RADIUS OF CURVATURE	X-SECT	CROSS SECTION
HMA	HOT MIX ASPHALT	R&D	REMOVE AND DISPOSE		
HOR	HORIZONTAL	RCP	REINFORCED CONCRETE PIPE		
HYD	HYDRANT	RD	ROAD		
INV	INVERT	RDWY	ROADWAY		
JCT	JUNCTION	REM	REMOVE		
L	LENGTH OF CURVE	RET	RETAIN		
LB	LEACH BASIN	RET WALL	RETAINING WALL		
LP	LIGHT POLE	ROW	RIGHT OF WAY		
LT	LEFT	RR	RAILROAD		
MAX	MAXIMUM	R&R	REMOVE AND RESET		
MB	MAILBOX	R&S	REMOVE AND STACK		
MH	MANHOLE	RT	RIGHT		
MHB	MASSACHUSETTS HIGHWAY BOUND	SB	STONE BOUND		
MIN	MINIMUM	SHLD	SHOULDER		

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

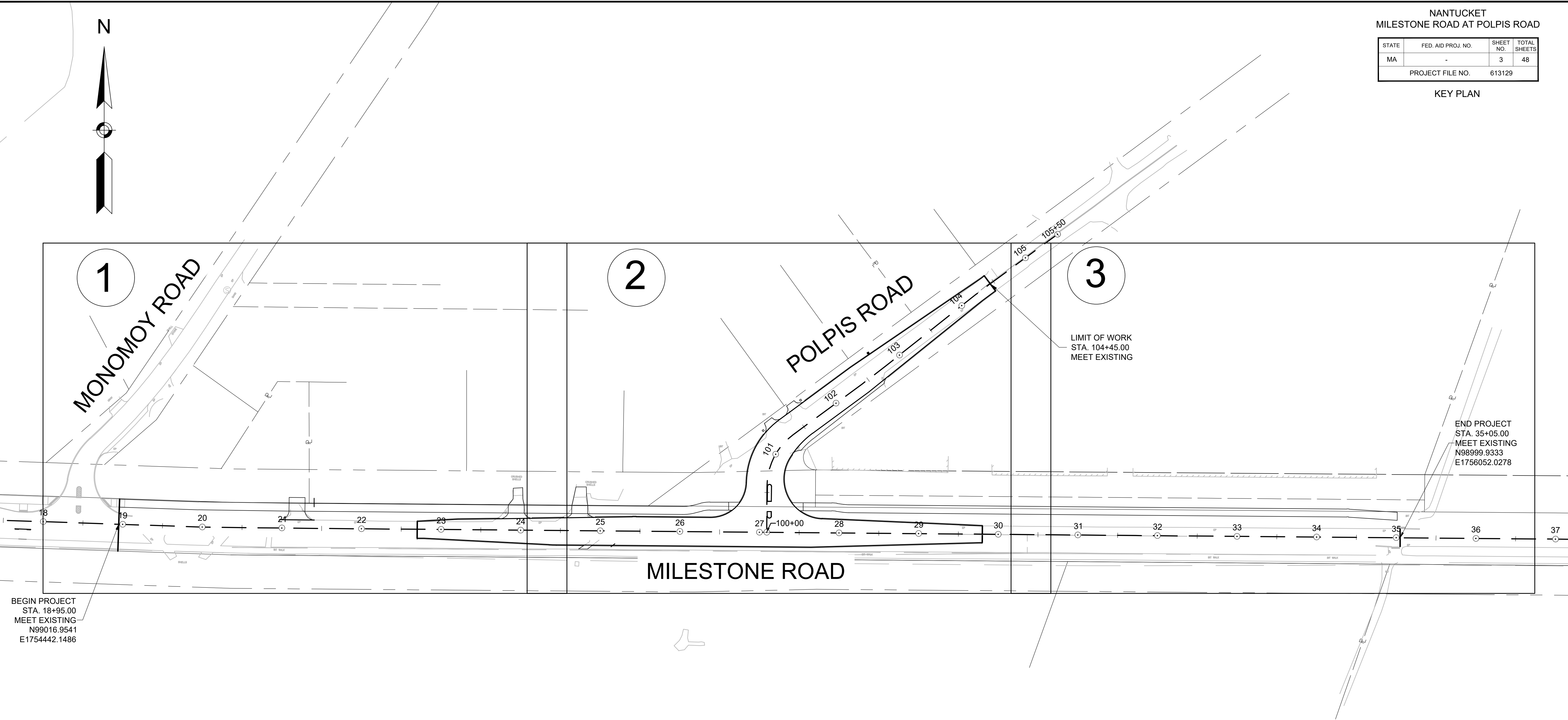
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	48
PROJECT FILE NO.		613129	

LEGEND & ABBREVIATIONS

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	3	48
PROJECT FILE NO.		613129	

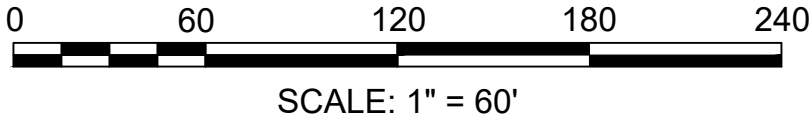
KEY PLAN



BEGIN PROJECT
STA. 18+95.00
MEET EXISTING
N99016.9541
E1754442.1486

END PROJECT
STA. 35+05.00
MEET EXISTING
N98999.9333
E1756052.0278

SHEET REFERENCE:	1	2	3
Drawing Title:	Drawing Number:		
CONSTRUCTION BASELINE TIES	5	6	7
CONSTRUCTION PLANS	8	9	10
CURB TIE & GRADING PLANS	14	15	16
DRAINAGE & UTILITY PLANS	17	18	19
TRAFFIC SIGN & PAVEMENT MARKING PLANS	20	21	22





NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

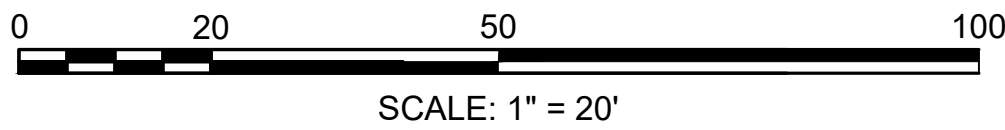
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	5	48
PROJECT FILE NO.		613129	

CONSTRUCTION BASELINE TIES

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	99047.476	1753547.669		S88°02'44"E 996.91'	19+96.91	99013.479	1754543.998
L2	19+96.91	99013.479	1754543.998		S89°15'43"E 112.18'	21+09.09	99012.034	1754656.170
L3	21+09.09	99012.034	1754656.170		S89°30'05"E 1063.79'	31+72.88	99002.776	1755719.916

CONTINUED ON
SHEET 6

MATCHLINE



MILESTONE ROAD

CHATHAM ROAD

MONOMOY ROAD

#4 MONOMOY ROAD
APN 55-67-0
FOUR MONOMOY NOMINEE TRUST
CERT. 23971

#1 CHATHAM ROAD
APN 54-48-0
DAVID S. & ENIC M. WISE
CERT. 22208

#8 MILESTONE ROAD
APN 54-47-0
8 MILESTONE ROAD REALTY TRUST
CERT. 22628

#5 CHATHAM ROAD
APN 54-132-0
GARRETT S. & JILL B. PRITCHARD
CERT. 25974

#16E MILESTONE ROAD
APN 54-130-4
MADAKET REALTY LLC
CERT. U42123

#1 MONOMOY ROAD
APN 55-68-0
MEDIA ONE OF MASSACHUSETTS INC
CERT. 18477

BEGIN PROJECT
STA. 18+95.00
MEET EXISTING
N99016.9541
E1754442.1486

2
N: 98987.7636
E: 1754584.6481
EL: 29.2340
MAG

APPROX. COUNTY LAYOUT

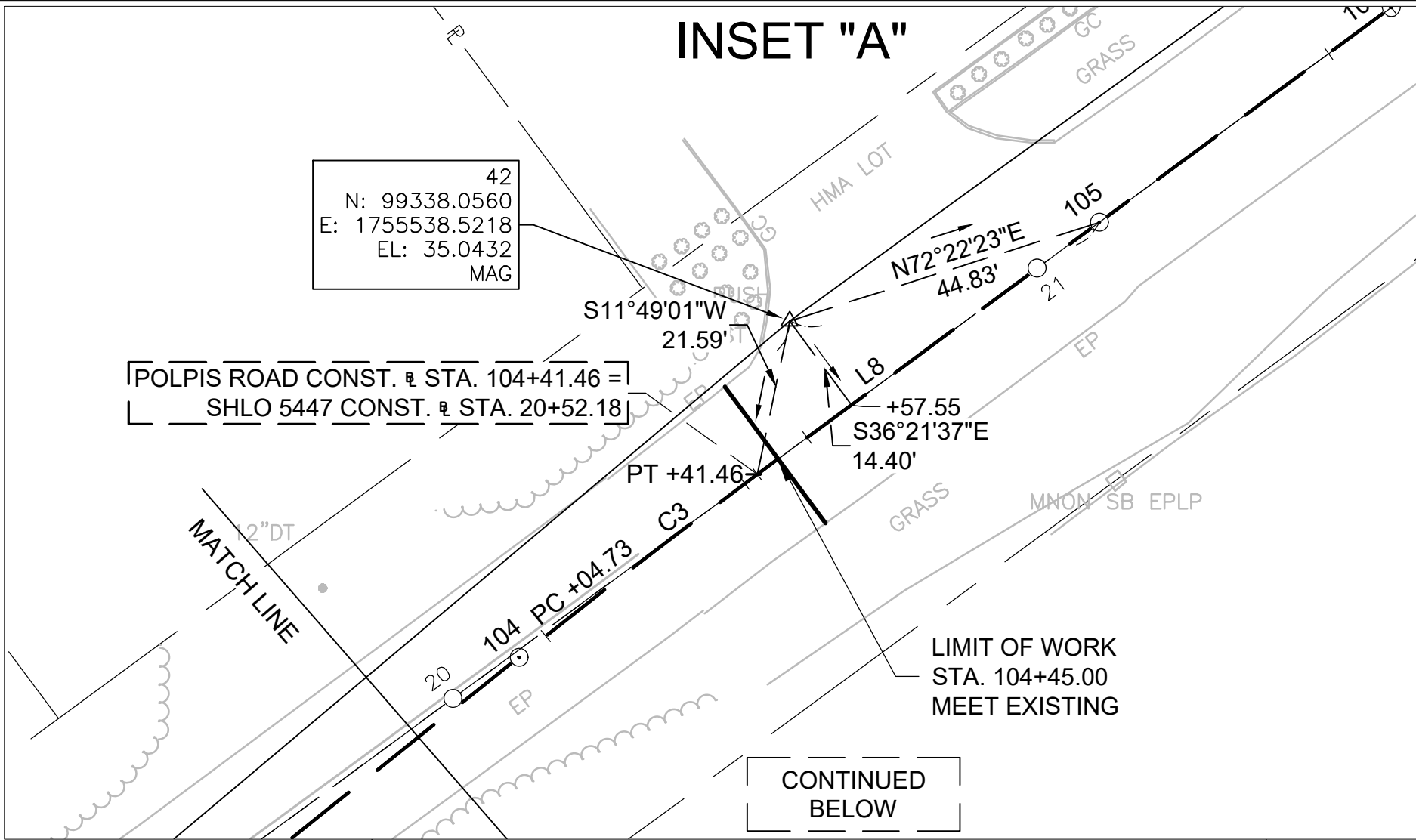
APPROX. CO



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	6	48
PROJECT FILE NO.		613129	

CONSTRUCTION BASELINE TIES



POLPIS ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	100+00.00	99006.812	1755256.142		N0°29'32"E 58.64'	100+58.64	99065.451	1755256.646
C1	100+58.64	99065.451	1755256.646	R=80.00' Δ=53°08'51" L=74.21' T=40.02'		101+32.85	99129.189	1755289.214
L6	101+32.85	99129.189	1755289.214		N53°38'23"E 108.49'	102+41.34	99193.509	1755376.582
C2	102+41.34	99193.509	1755376.582	R=1000.00' Δ=2°06'16" L=36.73' T=18.37'		102+78.07	99215.822	1755405.754
L7	102+78.07	99215.822	1755405.754		N51°32'07"E 126.66'	104+04.73	99294.611	1755504.929
C3	104+04.73	99294.611	1755504.929	R=1000.00' Δ=2°06'16" L=36.73' T=18.37'		104+41.46	99316.924	1755534.101
L8	104+41.46	99316.924	1755534.101		N53°38'23"E 108.54'	105+50.00	99381.273	1755621.508

#4 POLPIS ROAD
APN 54-187-0
VON KAMPEN NOMINEE TRUST
CERT. 22232

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	21+09.09	99012.034	1754656.170		S89°30'05"E 1063.79'	31+72.88	99002.776	1755719.916

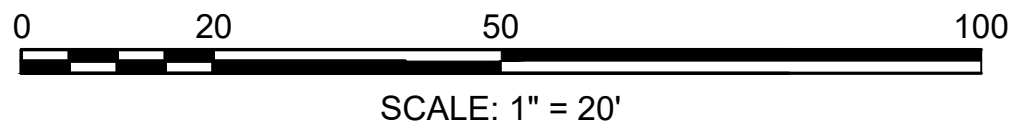
1 POLPIS ROAD
APN 54-121
N/F
ISLAND LUMBER HOLDING COMPANY
CERT. 5489, LCC 34603A
BOOK 1321, PAGE 211
PLAN NO. 35 OF 2011

41
N: 99042.8652
E: 1755188.0240
EL: 29.3778
SN

MILESTONE ROAD CONST. & STA. 25+67.48 =
SHLO 5447 CONST. & STA. 15+31.19

(REM) MILESTONE ROAD

MILESTONE ROAD CONST. & STA. 27+09.08 =
POLPIS ROAD CONST. & STA. 100+00.00



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E: 1755583.4998
EL: 34.6191
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NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	48
PROJECT FILE NO.		613129	

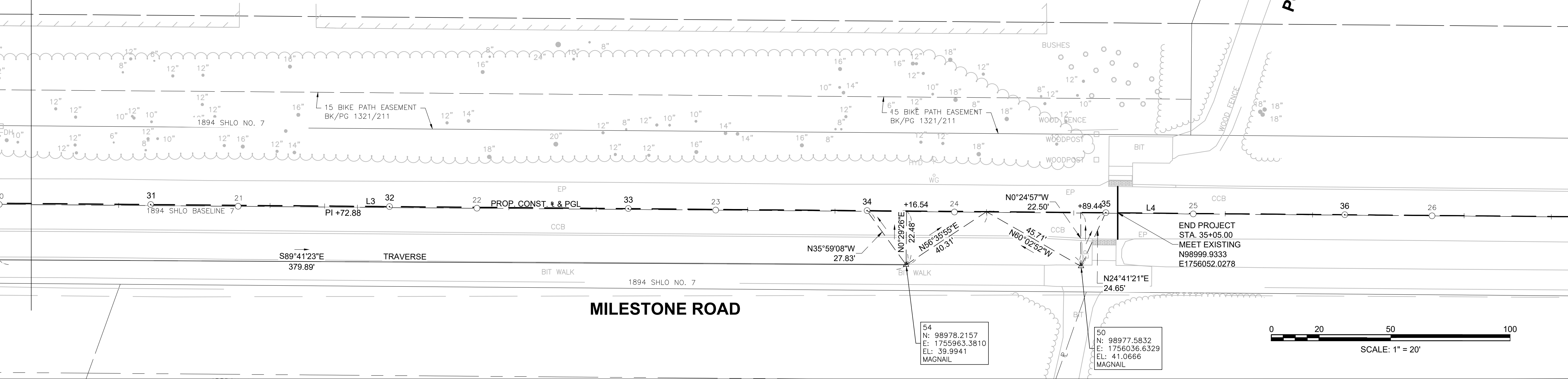
CONSTRUCTION BASELINE TIES

1 POLPIS ROAD
APN 54-121
N/F
ISLAND LUMBER HOLDING
COMPANY
CERT. 5489, LCC 34603A
BOOK 1321, PAGE 211
PLAN NO. 35 OF 2011

MILESTONE ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	21+09.09	99012.034	1754656.170		S89°30'05"E 1063.79'	31+72.88	99002.776	1755719.916
L4	31+72.88	99002.776	1755719.916		S89°30'34"E 691.94'	38+64.82	98996.853	1756411.830

CONTINUED ON
SHEET 6

MATCHLINE





NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 17

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOT. SHEET
MA	-	8	48
PROJECT FILE NO.		613129	

CONSTRUCTION PLANS

CONTINUED ON
SHEET 9

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Plotting on 31 Mar 2023 11:15 AM

FOR PROFILE: SEE SHEET NO. 11

NONE

NONE

NONE

SEE SHEET 18

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	48
PROJECT FILE NO.		613129	

PLANT SCHEDULE					
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
8	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5'-6' HT.	B&B
4	QA	QUERCUS ALBA	WHITE OAK	2"-2.5" CAL.	B&B



CONTINUED ON
SHEET 8

MATCHLINE

CONTINUED ON
SHEET 10

MATCHLINE	
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MILESTONE ROAD

MILESTONE ROAD CONST. & STA. 27+09.08 =
 POLPIS ROAD CONST. & STA. 100+00.00

0 20 50 100

SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NOS. 12 & 13

NONE

NONE

NONE

SEE SHEET 19

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	48
PROJECT FILE NO.		613129	

CONTINUED ON
SHEET 9

MATCHLINE

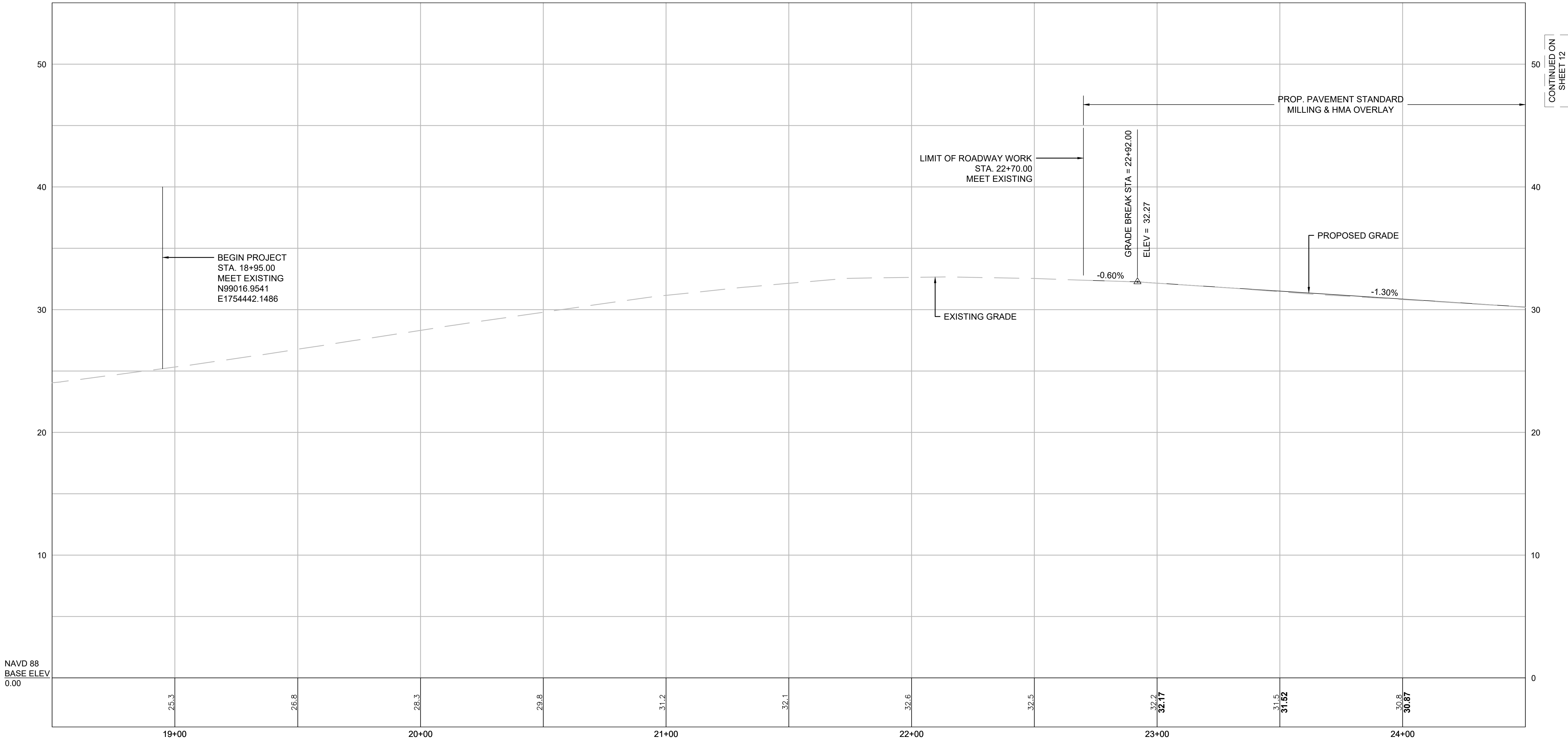
POLPIS BIKE PATH

MILESTONE ROAD

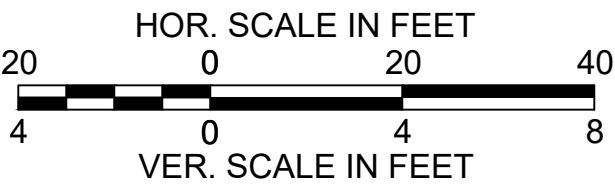


SCALE: 1" = 20'

MILESTONE ROAD



NAVD 88
BASE ELEV
0.00



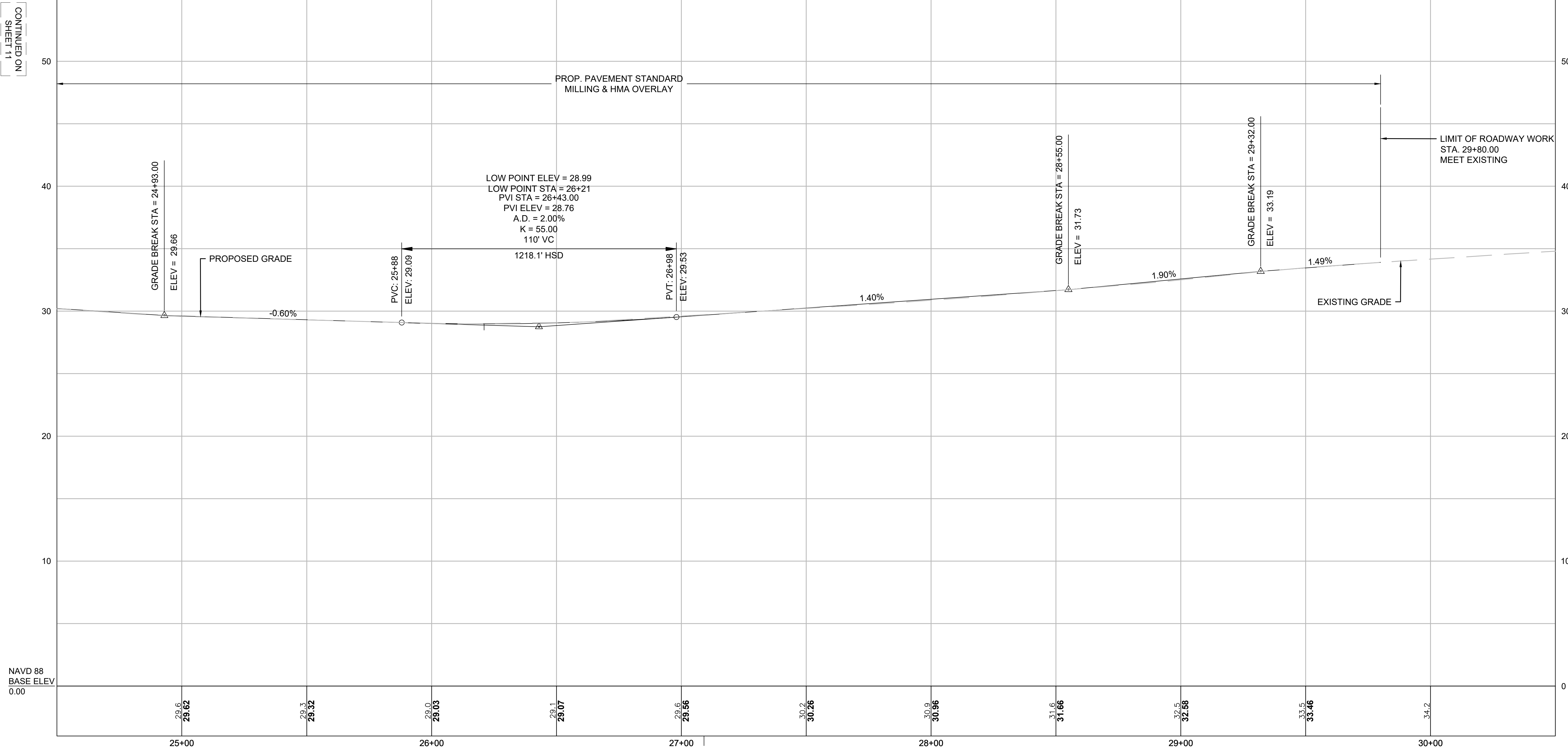
FOR CONSTRUCTION PLANS: SEE SHEET NO. 8

CONTINUED ON
SHEET 12

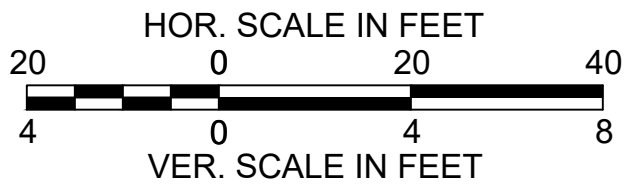
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	48
PROJECT FILE NO.		613129	

CONSTRUCTION PROFILES

MILESTONE ROAD



MILESTONE ROAD CONST. # STA. 27+09.08 =
POLPIS ROAD CONST. # STA. 100+00.00

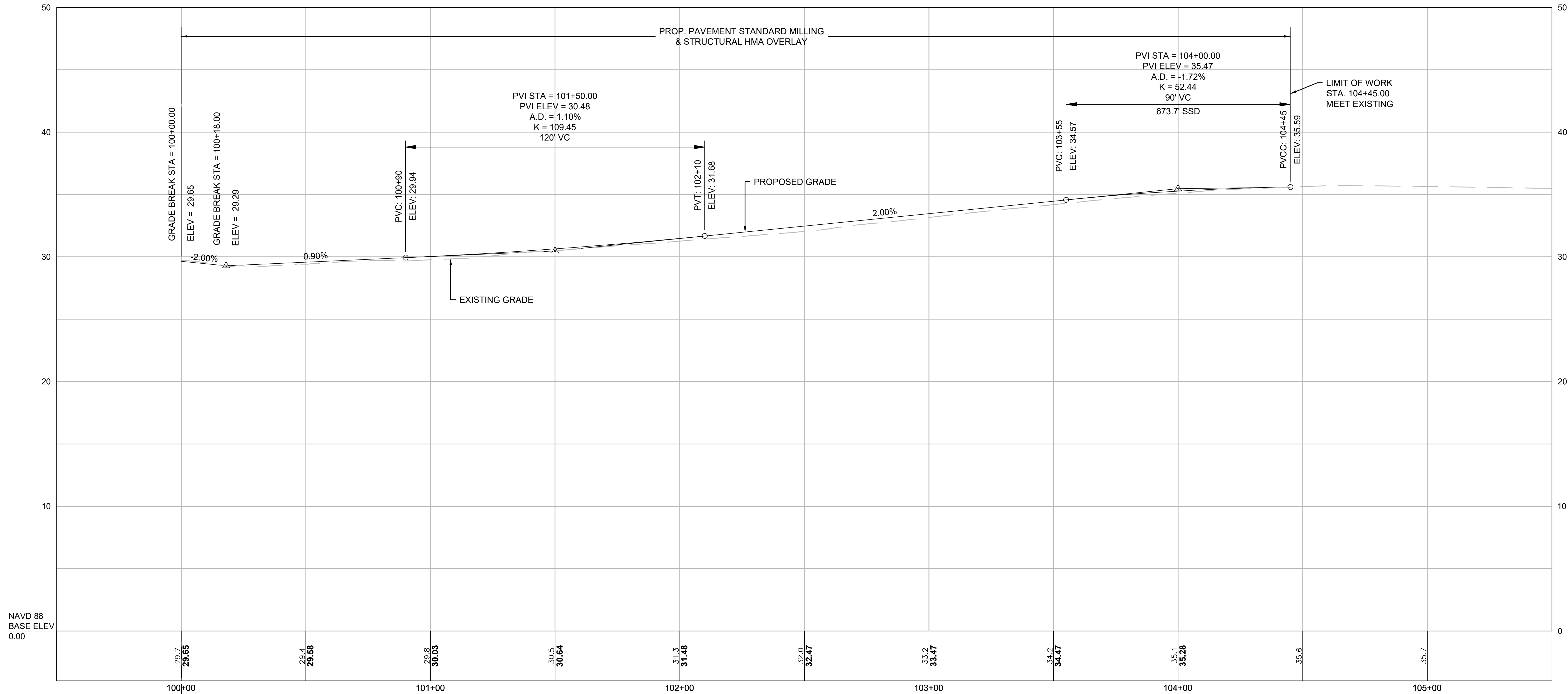


FOR CONSTRUCTION PLANS: SEE SHEET NO. 9

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	48
PROJECT FILE NO.		613129	

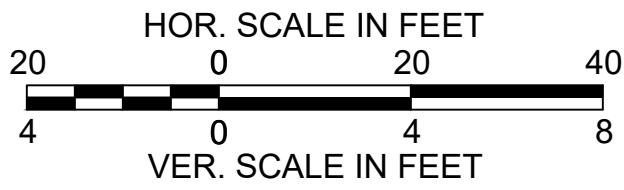
CONSTRUCTION PROFILES

POLPIS ROAD



NAVD 88
BASE ELEV
0.00

MILESTONE ROAD CONST. § STA. 27+09.08 =
POLPIS ROAD CONST. § STA. 100+00.00



FOR CONSTRUCTION PLANS: SEE SHEET NO. 9

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	48
PROJECT FILE NO.		613129	

CURB TIE & GRADING PLANS

N

#4 MONOMOY ROAD
APN 55-67-0
FOUR MONOMOY NOMINEE TRUST
CERT. 23971

#1 CHATHAM ROAD
APN 54-48-0
DAVID S. & ENIC M. WISE
CERT. 22208

CHATHAM ROAD

#8 MILESTONE ROAD
APN 54-47-0
8 MILESTONE ROAD REALTY TRUST
CERT. 22628

#5 CHATHAM ROAD
APN 54-132-0
GARRETT S. & JILL B. PRITCHARD
CERT. 25974

#16E MILESTONE ROAD
APN 54-130-4
MADAKET REALTY LLC
CERT. U42123

#1 MONOMOY ROAD
APN 55-68-0
MEDIA ONE OF MASSACHUSETTS INC
CERT. 18477

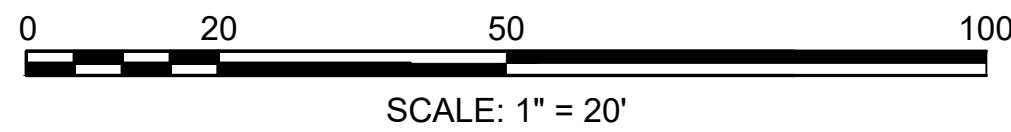
CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C1	2°26'47"	213.00	9.09

CONTINUED ON
SHEET 15

PROP. GRASS SWALE
(STA. 19+30 TO STA. 21+03)

BEGIN PROJECT
STA. 18+95.00
MEET EXISTING
N99016.9541
E1754442.1486

MILESTONE ROAD



MATCHLINE



CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C2	1°15'03"	213.00	4.65
C3	89°18'59"	45.00	70.15
C4	118°39'24"	50.00	103.55
C5	22°30'31"	110.00	43.21
C6	52°27'26"	99.50	91.10

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	48
PROJECT FILE NO.		613129	

CURB TIE & GRADING PLANS

LIMIT OF WORK
STA. 104+45.00
MEET EXISTING

POT
+45.00
11.03' RT

PT +41.46

L=36.73'
R=1000.00'

12.18'
+40.41

POT
+45.00
12.37' LT

35.56

PROP. CROWN LINE

L=36.73'
R=1000.00'

12"DT

34.99

104 PC+04.73

11.02'
+25.41

35.05

35.28

PT

34.24

34.47

33.23

33.47

33.03

34.11

31.97

RIM
32.26

#11 CHATHAM ROAD
APN 54-186-0
ROBERT H. & JUDITH A. BRUST
CERT. 24700

30.97

26.00'
+41.36

32.47

32.63

PT

PC+41.34

13.00'
+41.36

32.22

L=36.73'
R=1000.00'

32.71

PT

31.22

31.48

30.13

25.56'
+30.10

30.64

PT

PT+32.85

13.00'
+53.99

#2 POLPIS ROAD
APN 54-128-0
JUNE E. LIFE JOHNSON ESTATE
CERT. 20086

#4 POLPIS ROAD
APN 54-187-0
VON KAMPEN NOMINEE TRUST
CERT. 22232

1 POLPIS ROAD
APN 54-121
N/F
ISLAND LUMBER HOLDING COMPANY
CERT. 5489, LCC 34603A
BOOK 1321, PAGE 211
PLAN NO. 35 OF 2011

CONTINUED ON
SHEET 14

CONTINUED ON
SHEET 16

MATCHLINE

MATCHLINE

POLPIS ROAD

MILESTONE ROAD

MILESTONE ROAD CONST. # STA. 27+09.08 = 1
POLPIS ROAD CONST. # STA. 100+00.00



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	48
PROJECT FILE NO.		613129	

CURB TIE & GRADING PLANS

1 POLPIS ROAD
APN 54-121
N/F
ISLAND LUMBER HOLDING
COMPANY
CERT. 5489, LCC 34603A
BOOK 1321, PAGE 211
PLAN NO. 35 OF 2011

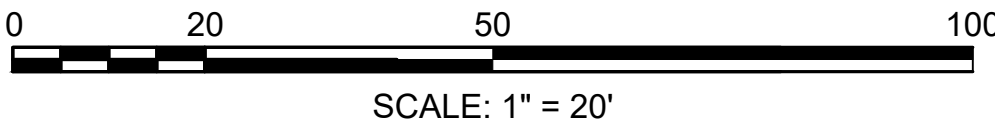
CONTINUED ON
SHEET 15

MATCH LINE

POLPIS BIKE PATH

END PROJECT
STA. 35+05.00
MEET EXISTING
N98999.9333
E1756052.0278

MILESTONE ROAD

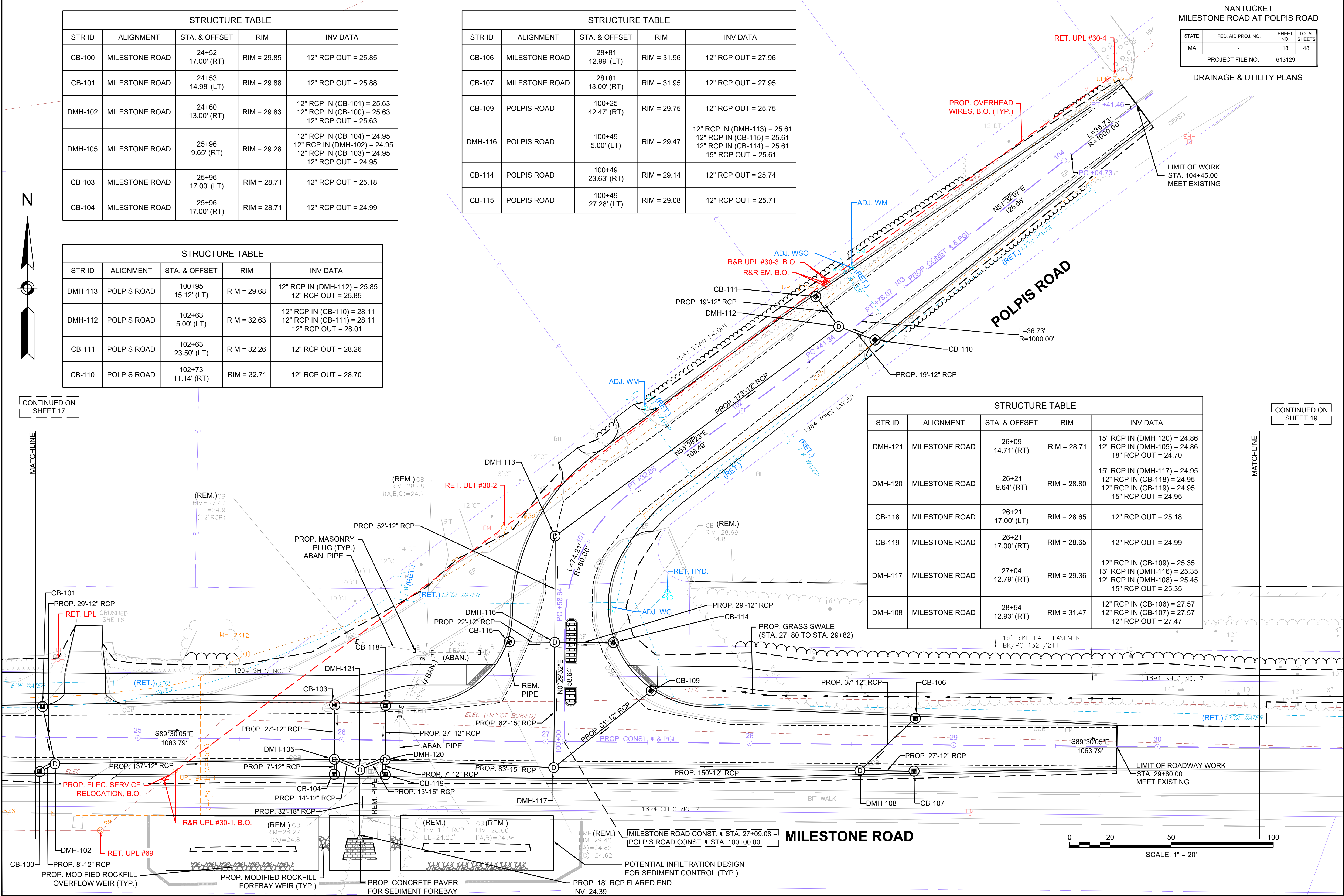


STRUCTURE TABLE				
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA
CB-100	MILESTONE ROAD	24+52 17.00' (RT)	RIM = 29.85	12" RCP OUT = 25.85
CB-101	MILESTONE ROAD	24+53 14.98' (LT)	RIM = 29.88	12" RCP OUT = 25.88
DMH-102	MILESTONE ROAD	24+60 13.00' (RT)	RIM = 29.83	12" RCP IN (CB-101) = 25.63 12" RCP IN (CB-100) = 25.63 12" RCP OUT = 25.63
DMH-105	MILESTONE ROAD	25+96 9.65' (RT)	RIM = 29.28	12" RCP IN (CB-104) = 24.95 12" RCP IN (DMH-102) = 24.95 12" RCP IN (CB-103) = 24.95 12" RCP OUT = 24.95
CB-103	MILESTONE ROAD	25+96 17.00' (LT)	RIM = 28.71	12" RCP OUT = 25.18
CB-104	MILESTONE ROAD	25+96 17.00' (RT)	RIM = 28.71	12" RCP OUT = 24.99

STRUCTURE TABLE				
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA
DMH-113	POLPIS ROAD	100+95 15.12' (LT)	RIM = 29.68	12" RCP IN (DMH-112) = 25.85 12" RCP OUT = 25.85
DMH-112	POLPIS ROAD	102+63 5.00' (LT)	RIM = 32.63	12" RCP IN (CB-110) = 28.11 12" RCP IN (CB-111) = 28.11 12" RCP OUT = 28.01
CB-111	POLPIS ROAD	102+63 23.50' (LT)	RIM = 32.26	12" RCP OUT = 28.26
CB-110	POLPIS ROAD	102+73 11.14' (RT)	RIM = 32.71	12" RCP OUT = 28.70

STRUCTURE TABLE				
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA
CB-106	MILESTONE ROAD	28+81 12.99' (LT)	RIM = 31.96	12" RCP OUT = 27.96
CB-107	MILESTONE ROAD	28+81 13.00' (RT)	RIM = 31.95	12" RCP OUT = 27.95
CB-109	POLPIS ROAD	100+25 42.47' (RT)	RIM = 29.75	12" RCP OUT = 25.75
DMH-116	POLPIS ROAD	100+49 5.00' (LT)	RIM = 29.47	12" RCP IN (DMH-113) = 25.61 12" RCP IN (CB-115) = 25.61 12" RCP IN (CB-114) = 25.61 15" RCP OUT = 25.61
CB-114	POLPIS ROAD	100+49 23.63' (RT)	RIM = 29.14	12" RCP OUT = 25.74
CB-115	POLPIS ROAD	100+49 27.28' (LT)	RIM = 29.08	12" RCP OUT = 25.71

STRUCTURE TABLE				
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA
DMH-121	MILESTONE ROAD	26+09 14.71' (RT)	RIM = 28.71	15" RCP IN (DMH-120) = 24.86 12" RCP IN (DMH-105) = 24.86 18" RCP OUT = 24.70
DMH-120	MILESTONE ROAD	26+21 9.64' (RT)	RIM = 28.80	15" RCP IN (DMH-117) = 24.95 12" RCP IN (CB-118) = 24.95 12" RCP IN (CB-119) = 24.95 15" RCP OUT = 24.95
CB-118	MILESTONE ROAD	26+21 17.00' (LT)	RIM = 28.65	12" RCP OUT = 25.18
CB-119	MILESTONE ROAD	26+21 17.00' (RT)	RIM = 28.65	12" RCP OUT = 24.99
DMH-117	MILESTONE ROAD	27+04 12.79' (RT)	RIM = 29.36	12" RCP IN (CB-109) = 25.35 15" RCP IN (DMH-116) = 25.35 12" RCP IN (DMH-108) = 25.45 15" RCP OUT = 25.35
DMH-108	MILESTONE ROAD	28+54 12.93' (RT)	RIM = 31.47	12" RCP IN (CB-106) = 27.57 12" RCP IN (CB-107) = 27.57 12" RCP OUT = 27.47





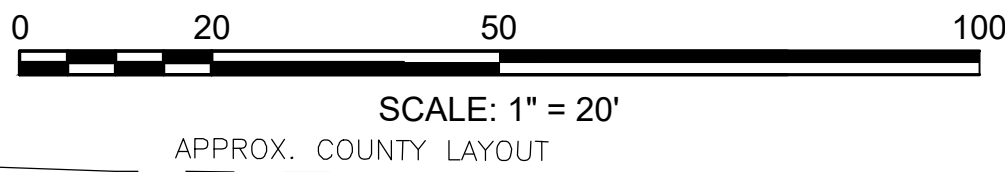
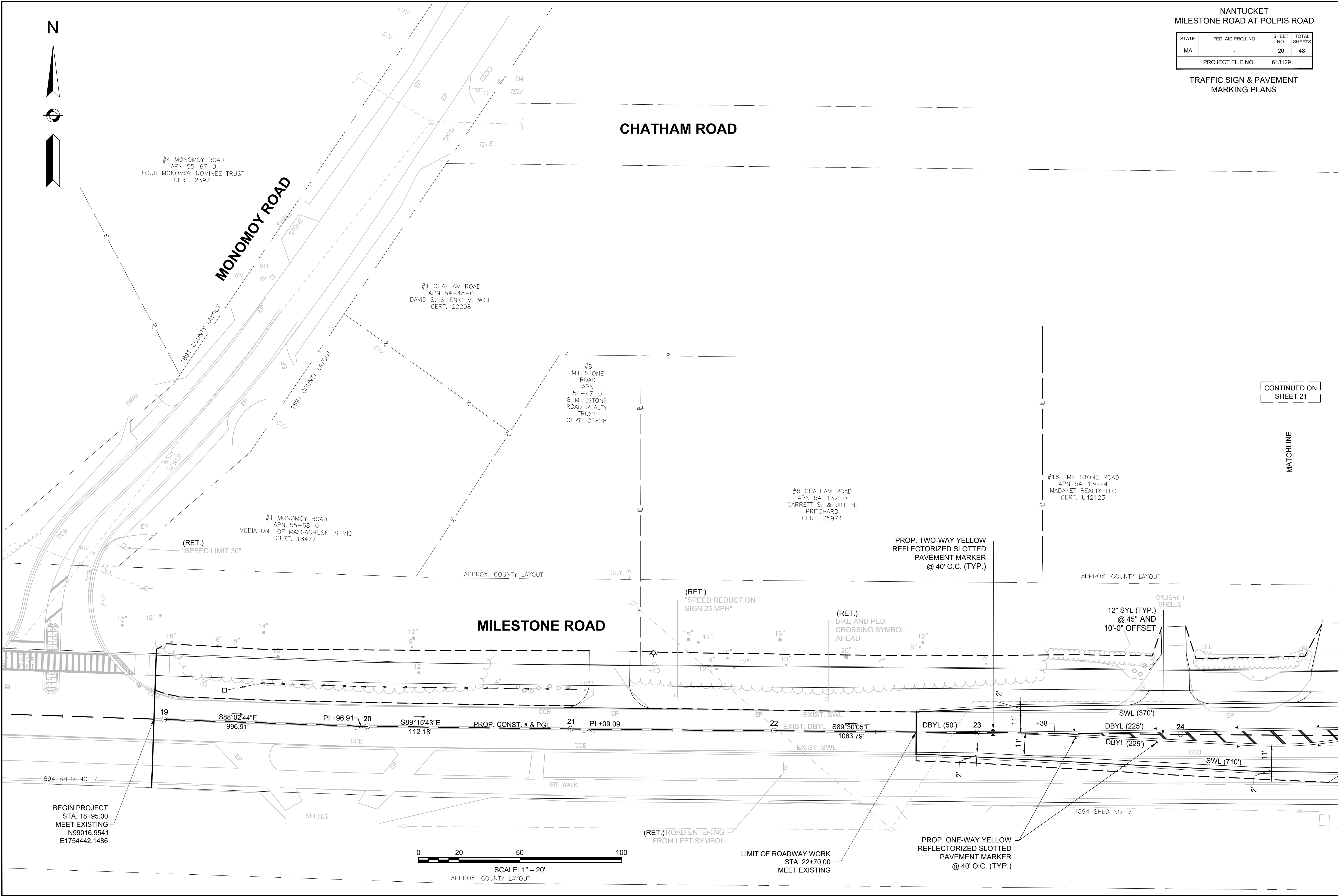
NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

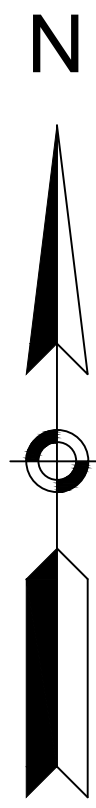
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	48
PROJECT FILE NO.		613129	

TRAFFIC SIGN & PAVEMENT
MARKING PLANS

CONTINUED ON
SHEET 21

MATCHLINE





NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	48
PROJECT FILE NO.		613129	

TRAFFIC SIGN & PAVEMENT
MARKING PLANS

LIMIT OF WORK
STA. 104+45.00
MEET EXISTING

#11 CHATHAM ROAD
APN 54-186-0
ROBERT H. & JUDITH A. BRUST
CERT. 24700

#4 POLPIS ROAD
APN 54-187-0
VON KAMPEN NOMINEE TRUST
CERT. 22232

#2 POLPIS ROAD
APN 54-128-0
JUNE E. LIFE JOHNSEN ESTATE
CERT. 20086

1 POLPIS ROAD
APN 54-121
N/F
ISLAND LUMBER HOLDING COMPANY
CERT. 5489, LCC 34603A
BOOK 1321, PAGE 211
PLAN NO. 35 OF 2011

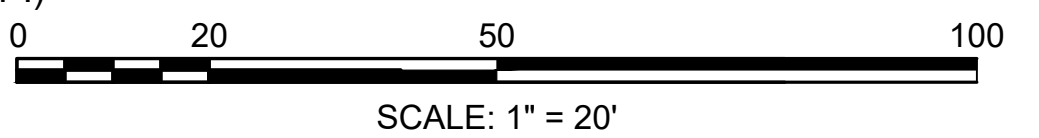
MILESTONE ROAD

PROP. ONE-WAY YELLOW
REFLECTORIZED SLOTTED
PAVEMENT MARKER
@ 40' O.C. (TYP.)

ROAD ENTERING
AHEAD SYMBOL
(RET.)

PROP. TWO-WAY YELLOW
REFLECTORIZED SLOTTED
PAVEMENT MARKER
@ 40' O.C. (TYP.)

LIMIT OF ROADWAY WORK
STA. 29+80.00
MEET EXISTING

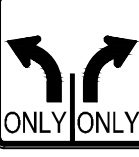
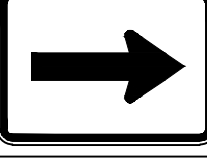


APPROX. COUNTY LAYOUT

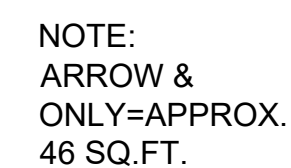
CONTINUED ON
SHEET 20

CONTINUED ON
SHEET 22

- NOTES:
- ALL WARNING, REGULATORY AND ROUTE MARKERS SHALL BE FABRICATED WITH HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING (SEE SECTION M9.30.0) TYPE III OR IV.
 - ALL SIGNS NOTED AS "(R&R)" SHALL BE MOUNTED ON NEW 4"x4" WOOD POST PER THE TOWN OF NANTUCKET'S STANDARDS.
 - QUANTITIES OF SIGNS AND POSTS SHOWN ON THIS SHEET MAY DIFFER FROM THE TRAFFIC SIGN & PAVEMENT MARKING PLANS. WHERE DIFFERENCES OCCUR, THE TRAFFIC SIGN & PAVEMENT MARKING PLANS SHALL PREVAIL.

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			4X4 POST NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
R2-1(35)	24"	30"		MUTCD STANDARD		2	WHITE	BLACK	BLACK	2	5.00	10.00
R3-7L	30"	30"		MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	6.25	6.25
R3-8c	30"	30"		MUTCD STANDARD		1	WHITE	BLACK	BLACK	1	6.25	6.25
M6-1R	21"	15"		MUTCD STANDARD		1	BLUE	WHITE	WHITE	MNT. w/ EXIST. D9-2	2.19	2.19

613129 HD (TI) DWG Plotted on 31-May-2023 11:24 AM



NOT TO SCALE

TRAFFIC MANAGEMENT NOTES

GENERAL

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT - HIGHWAY DIVISION'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
2. THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
3. WITH THE EXCEPTION OF THE PERMANENT LANE CLOSURES REQUIRED FOR STAGED CONSTRUCTION, LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF MASSDOT AND THE ENGINEER, LANE RESTRICTIONS MAY REMAIN OVERNIGHT.
4. CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE RAMPS AND RAILINGS IN ACCORDANCE WITH ADA/AAB ACCESSIBILITY REQUIREMENTS FROM THE LATEST MASSDOT TOP TEMPLATES. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
5. PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" MUST BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER OR FLAGGER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTH IS MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
7. WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY (NORMALLY 9:00am TO 4:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE.
8. TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES: ENGLISH UNITS:
L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
L = WS²/60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
9. ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1P PLATES SHALL BE USED WHERE APPROPRIATE.
10. FLASHING ARROW PANEL SHALL BE SET IN "ARROW MODE" WHEN USED FOR ACTUAL LANE CLOSURES ONLY. FOR SHOULDER CLOSURES, BULBS TO BE ILLUMINATED IN A NON-DIRECTIONAL CAUTION CONFIGURATION TO AVOID UNNECESSARY LANE SHIFTS.
11. DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
12. THE FIRST TEN (10) REFLECTORIZED DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.

GRADE DIFFERENCES

13. WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND ADJACENT TRAVEL SURFACE (UNDER REPAIR OR RECONSTRUCTION), THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION. (SEE DETAIL, ON SHEET 26).
14. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
15. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.
16. A MINIMUM SLOPE OF 4:1 MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELWAY (SEE DETAIL, ON SHEET 26). A MAXIMUM SLOPE OF 8:1 MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A MAXIMUM SLOPE OF 12:1 MUST BE MAINTAINED ON ALL SIDEWALKS.

CONSTRUCTION SIGNING

17. ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.
18. CONSTRUCTION SIGNING SHOWN ON THE ADVANCE WARNING SIGN PLAN SHALL ONLY BE USED WHEN WORK IS BEING DONE WHICH RESTRICTS TRAFFIC.
19. STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON ALL ADVANCE WARNING SIGNS. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE. IF USED, THE COST FOR THE FLAGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGNS WITH NO ADDITIONAL PAYMENT.
20. EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
21. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
22. IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.
23. USE MA-W20-7b OR W20-7 SIGNS ONLY WHILE POLICE OR FLAGGERS ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.
24. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD NCHRP 350 OR MASH CRASH TESTED SUPPORT. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.

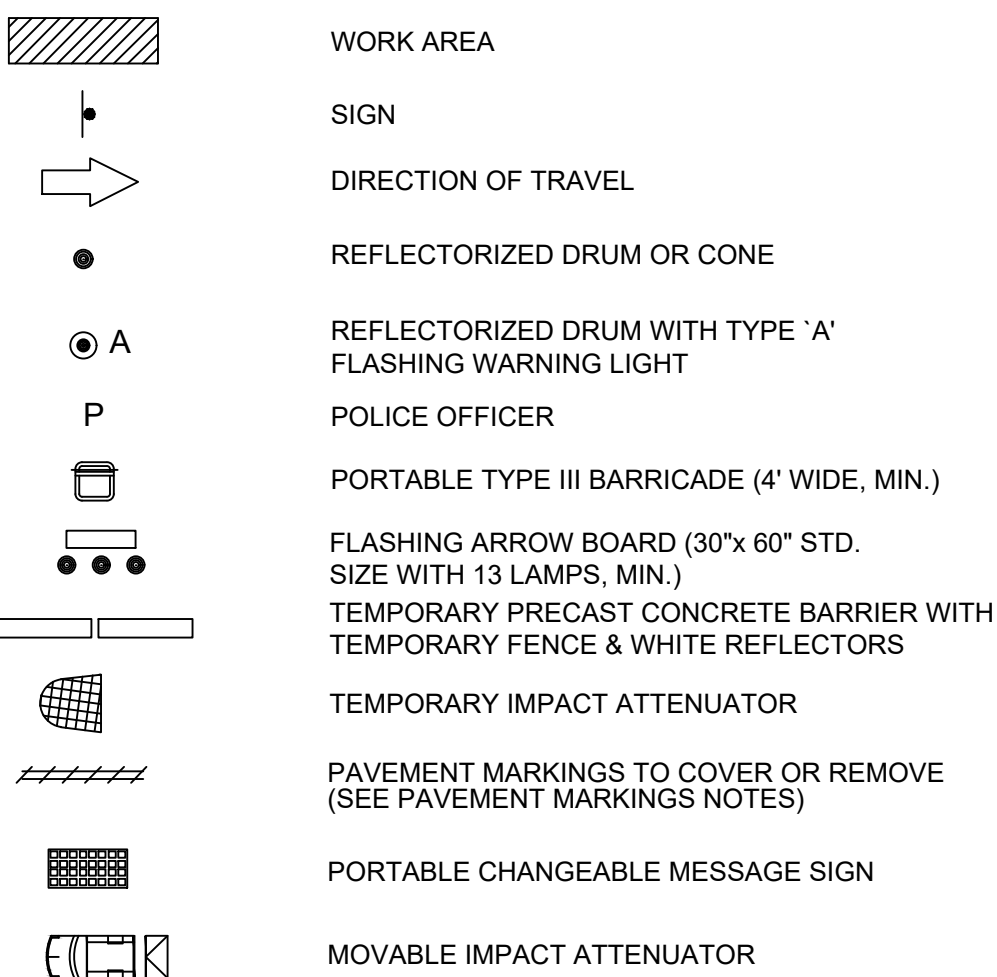
PAVEMENT MARKINGS

25. PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.
26. ON PROJECTS WHERE PAVEMENT OVERLAY IS NOT DESIGNATED, EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT TAPE, AS DIRECTED BY THE ENGINEER, FOR THE FULL DURATION OF THE PHASE IN PROGRESS. TEMPORARY PAINTED OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.

CHANNELIZATION

27. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE FIRST TEN DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
28. REFLECTORIZED CONES SHALL BE 36" HIGH.
29. PLASTIC DRUMS MUST PASS THE CRITERIA SET FORTH IN MASH "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
30. TEMPORARY IMPACT ATTENUATORS MUST MEET THE PERFORMANCE STANDARDS OF MASH.
31. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN MASH "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
32. ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR THE ASSESSMENT OF SAFETY HARDWARE (MASH). IF THEY DO NOT MEET THESE CRITERIA THEY MUST BE REMOVED FROM THE PROJECT.

TRAFFIC MANAGEMENT LEGEND



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

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

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

Based on: Table 6C-1 MUTCD latest edition

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

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

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

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

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

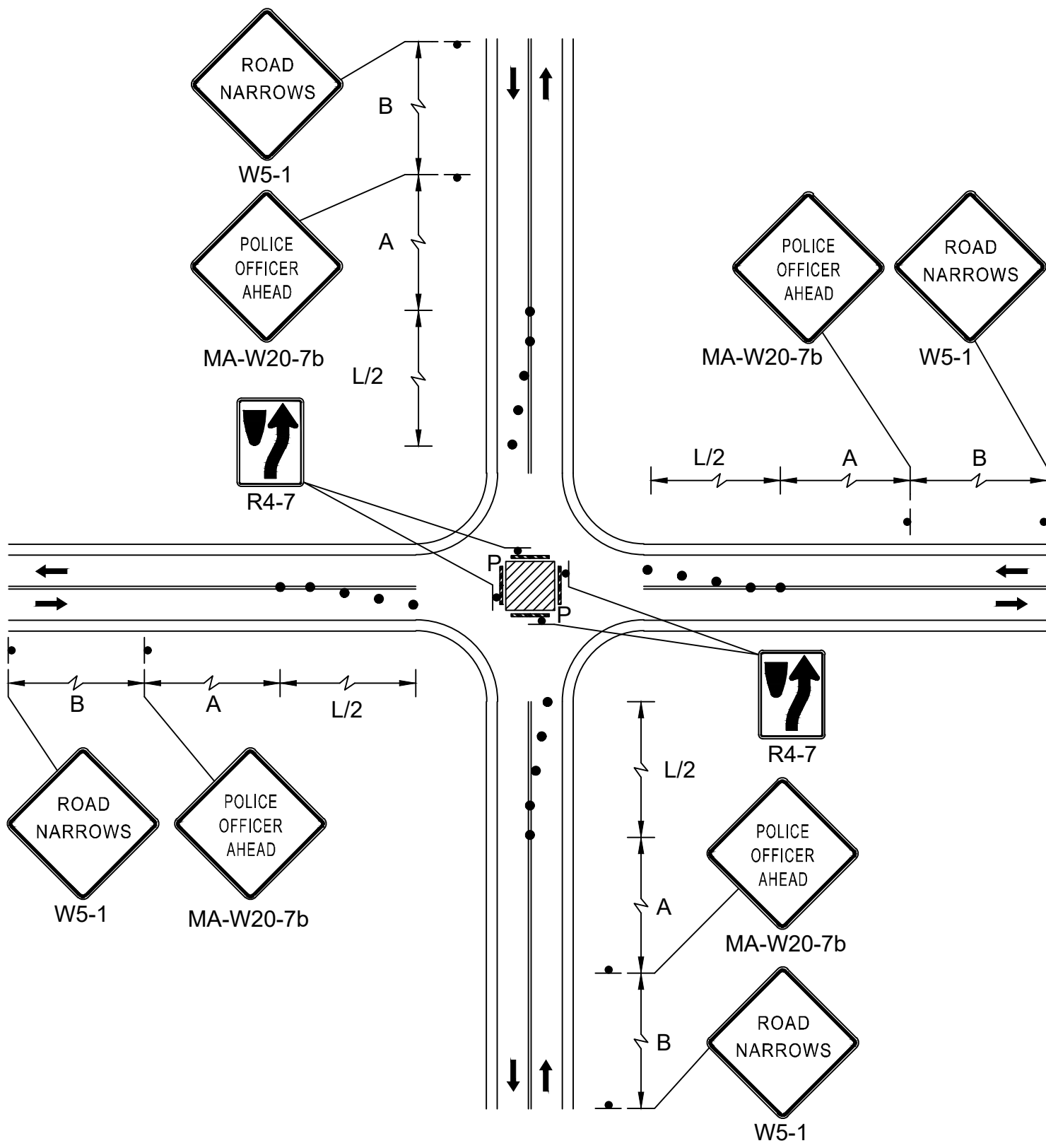
MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

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

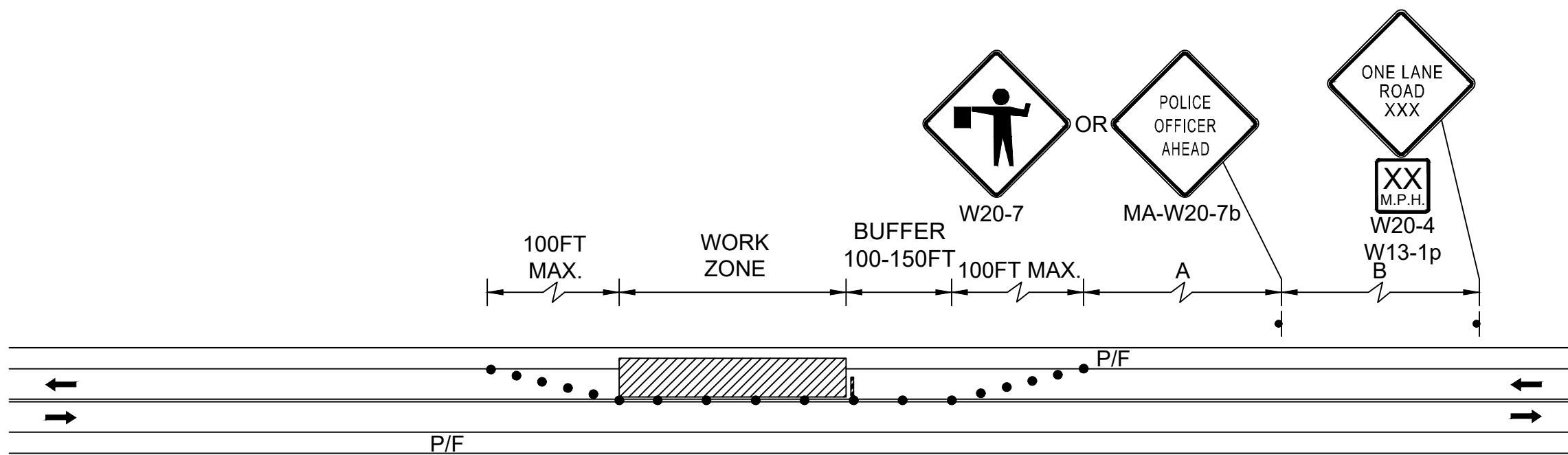
NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	48
PROJECT FILE NO.		613129	

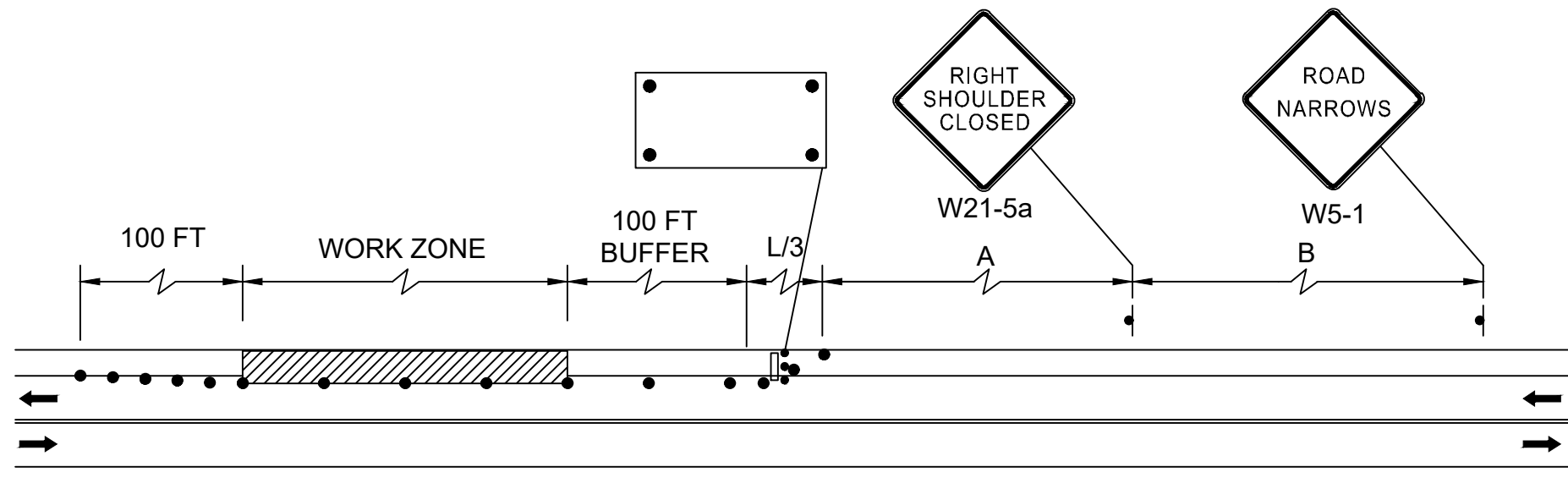
TEMPORARY TRAFFIC CONTROL
PLANS



SINGLE LANE APPROACH
CENTER CLOSURE
NOT TO SCALE



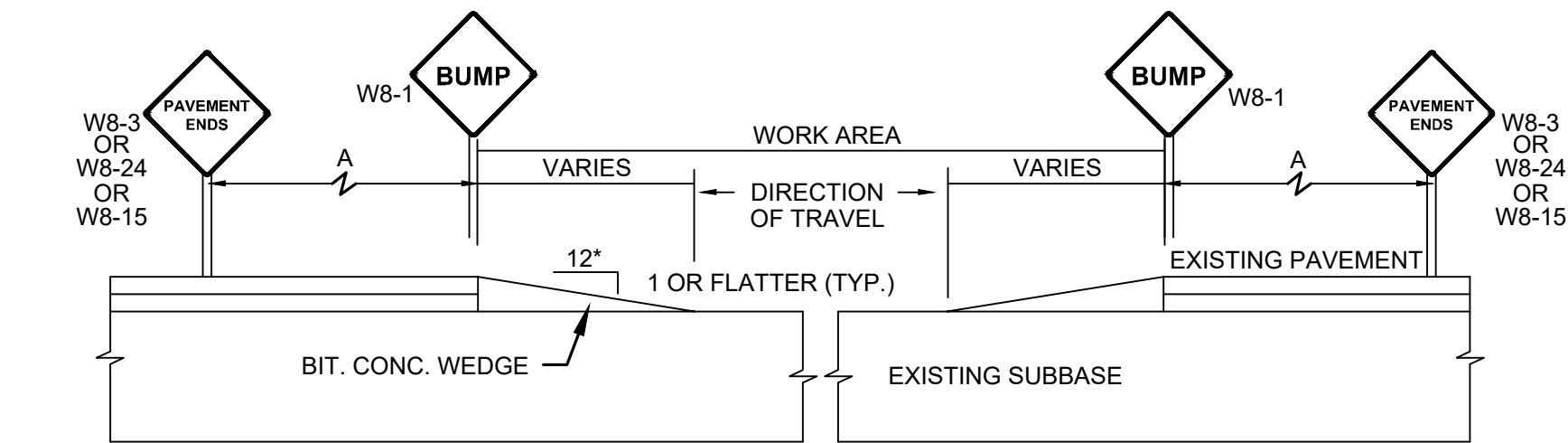
TWO LANE ROAD ONE LANE
ALTERNATING TRAFFIC
NOT TO SCALE



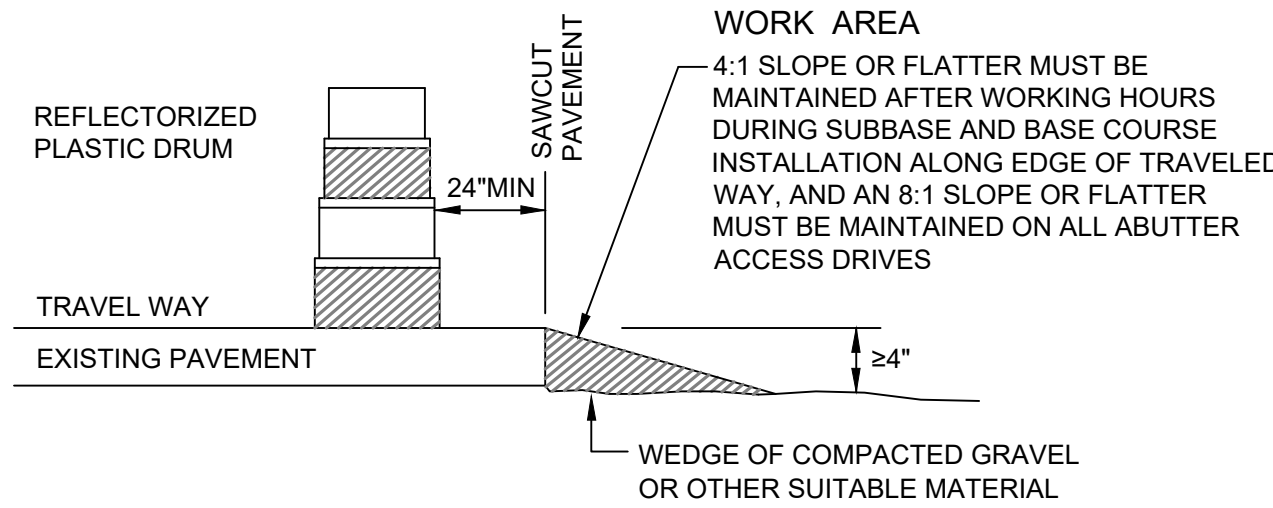
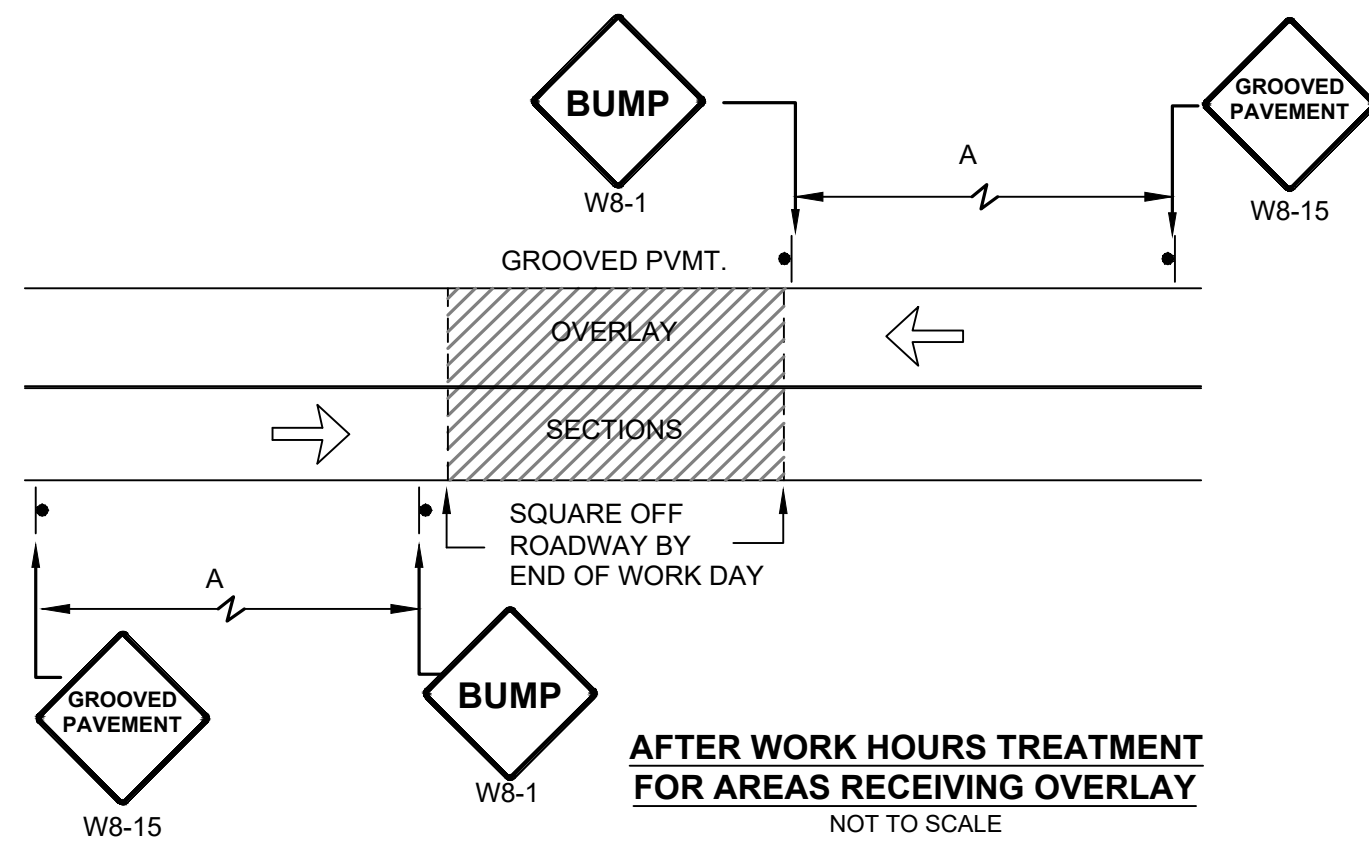
TWO LANE ROAD
SHOULDER CLOSED
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	48
PROJECT FILE NO.		613129	

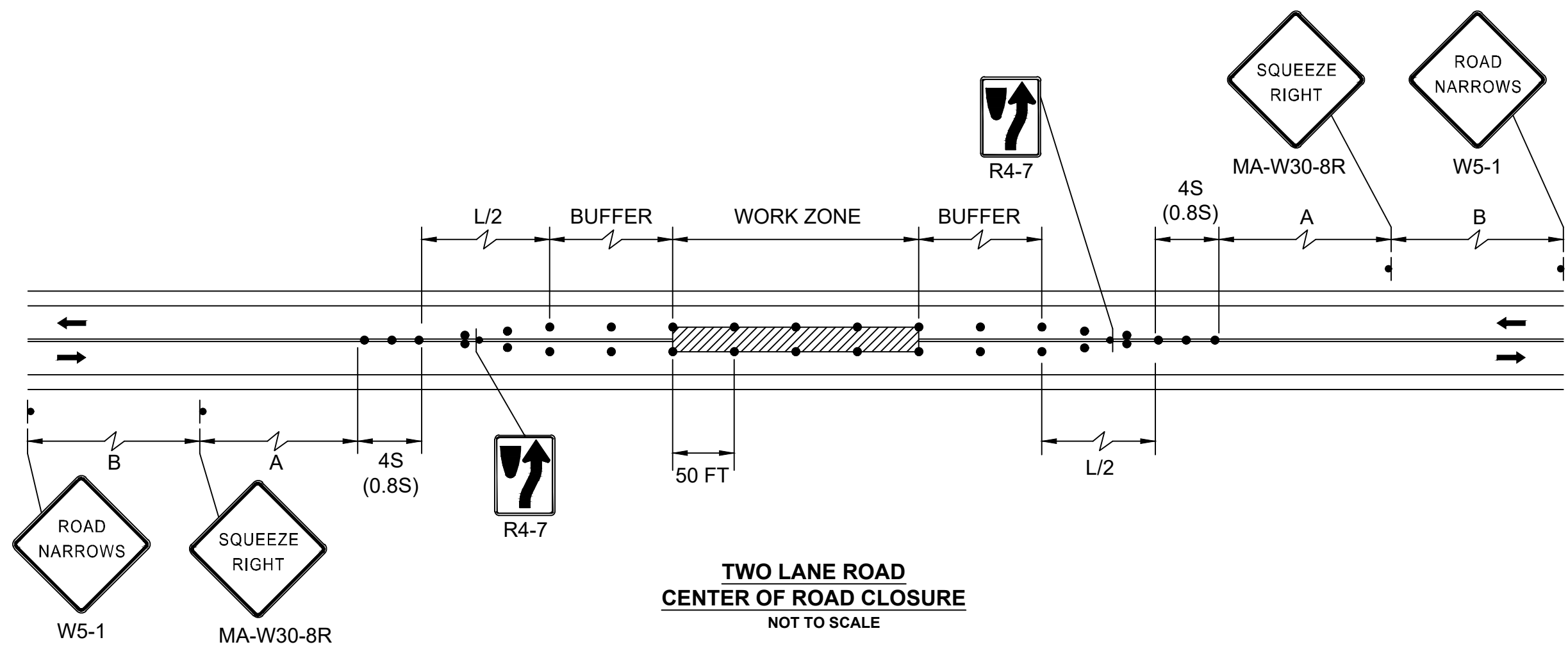
TEMPORARY TRAFFIC CONTROL
PLANS



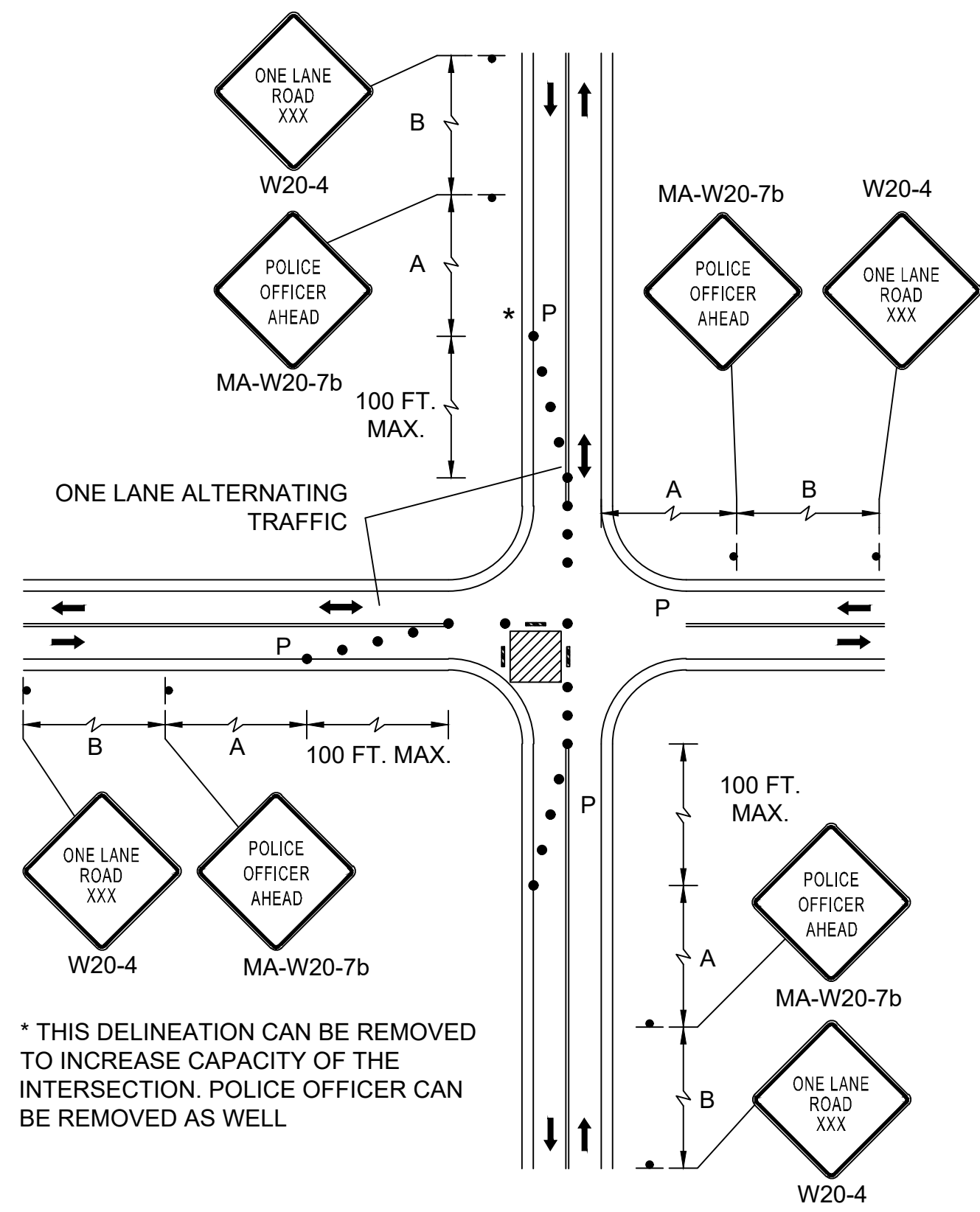
TEMPORARY RAMP
NOT TO SCALE



AFTER WORK HOURS TREATMENT
FOR LATERAL SLOPING
NOT TO SCALE



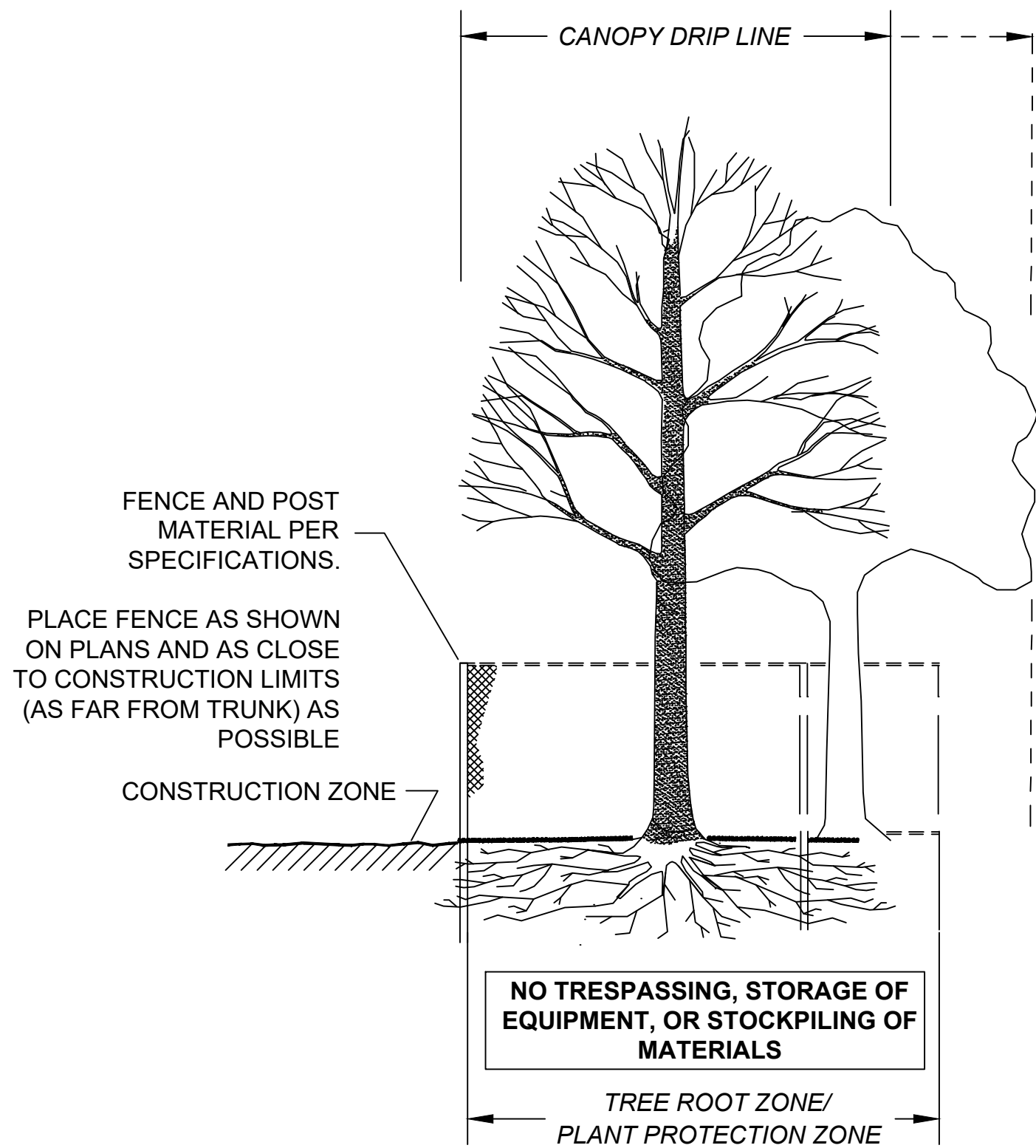
TWO LANE ROAD
CENTER OF ROAD CLOSURE
NOT TO SCALE



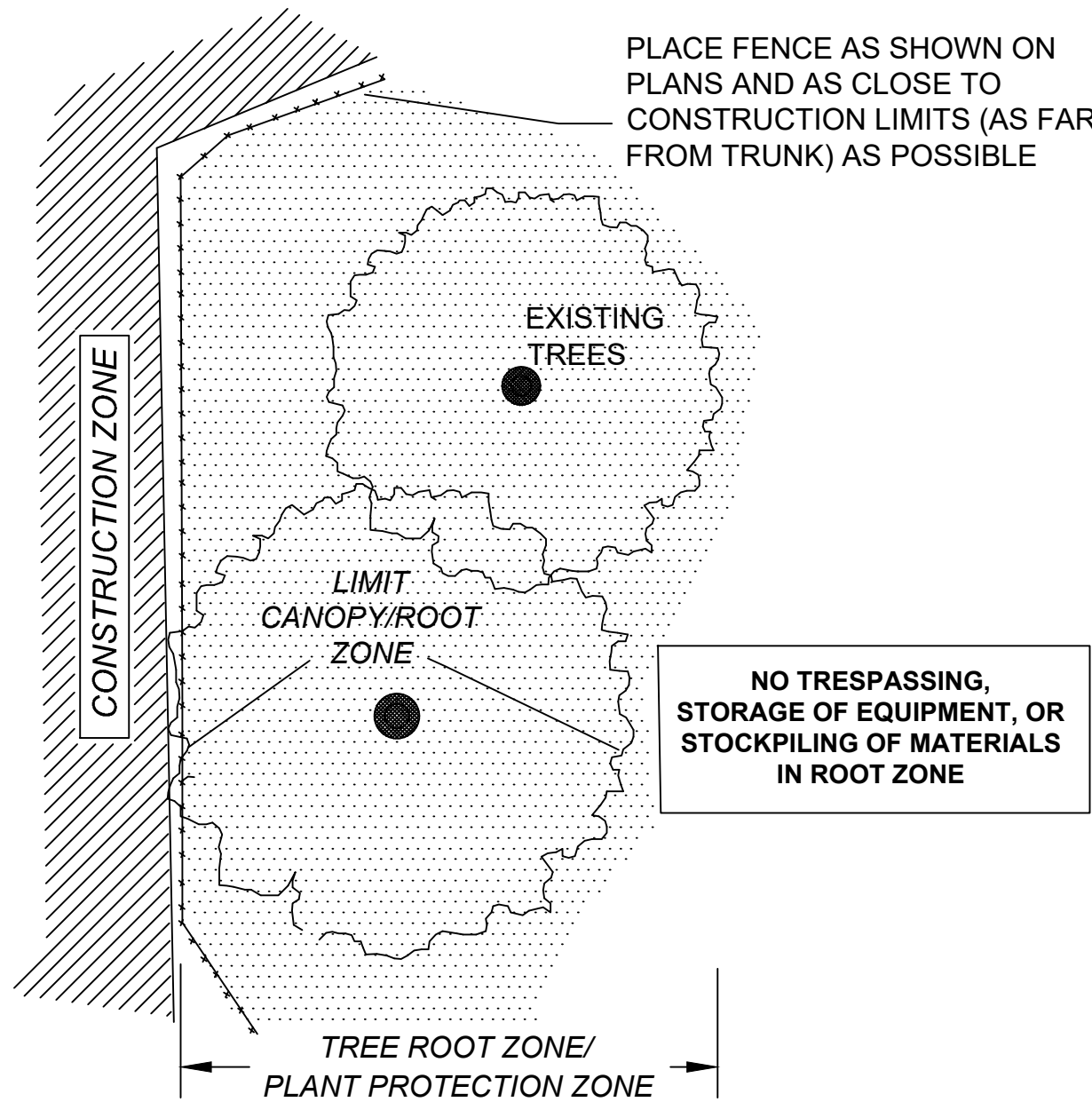
SINGLE LANE APPROACH ONE
QUADRANT CLOSURE
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	48
PROJECT FILE NO.		613129	

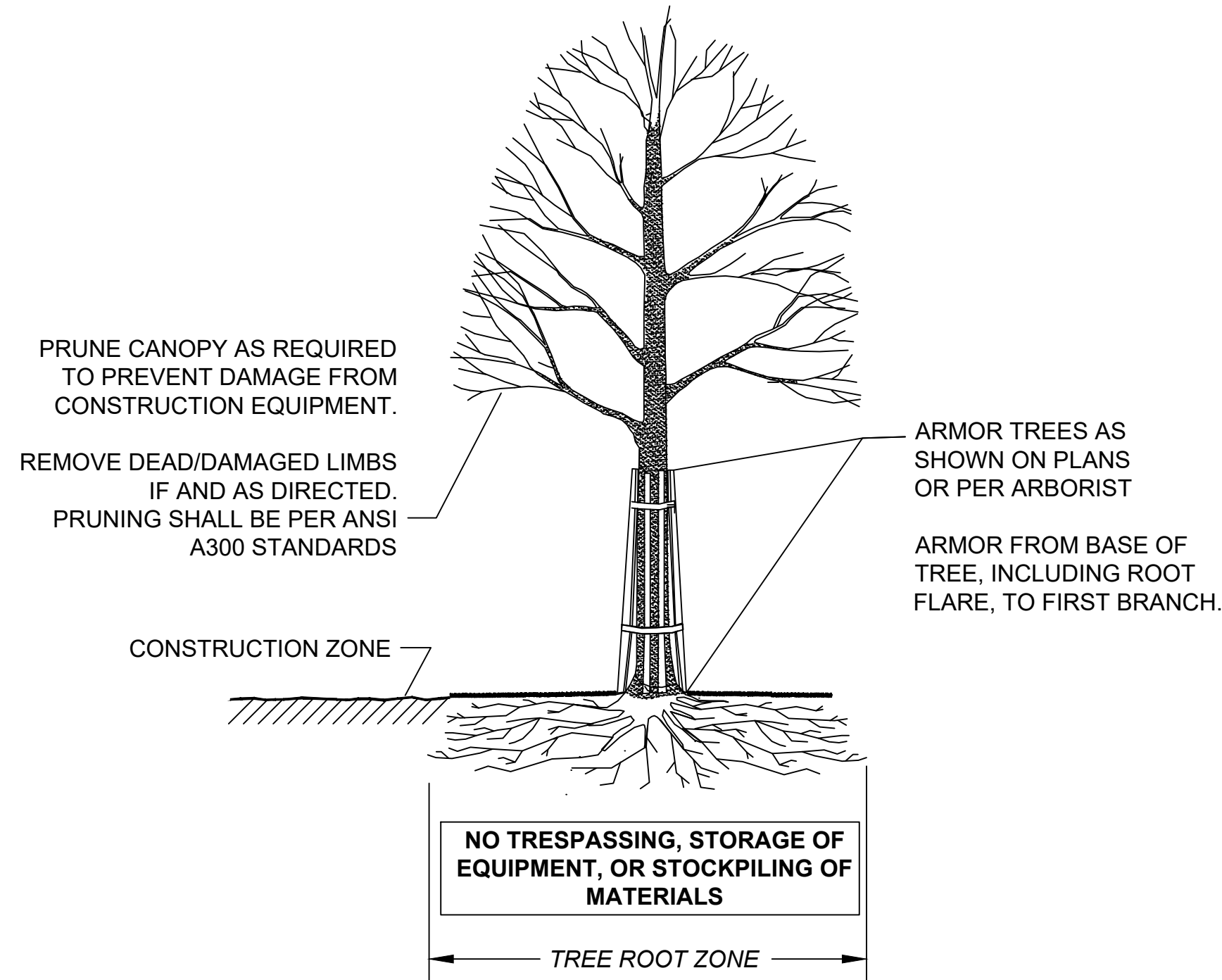
CONSTRUCTION DETAILS



SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE



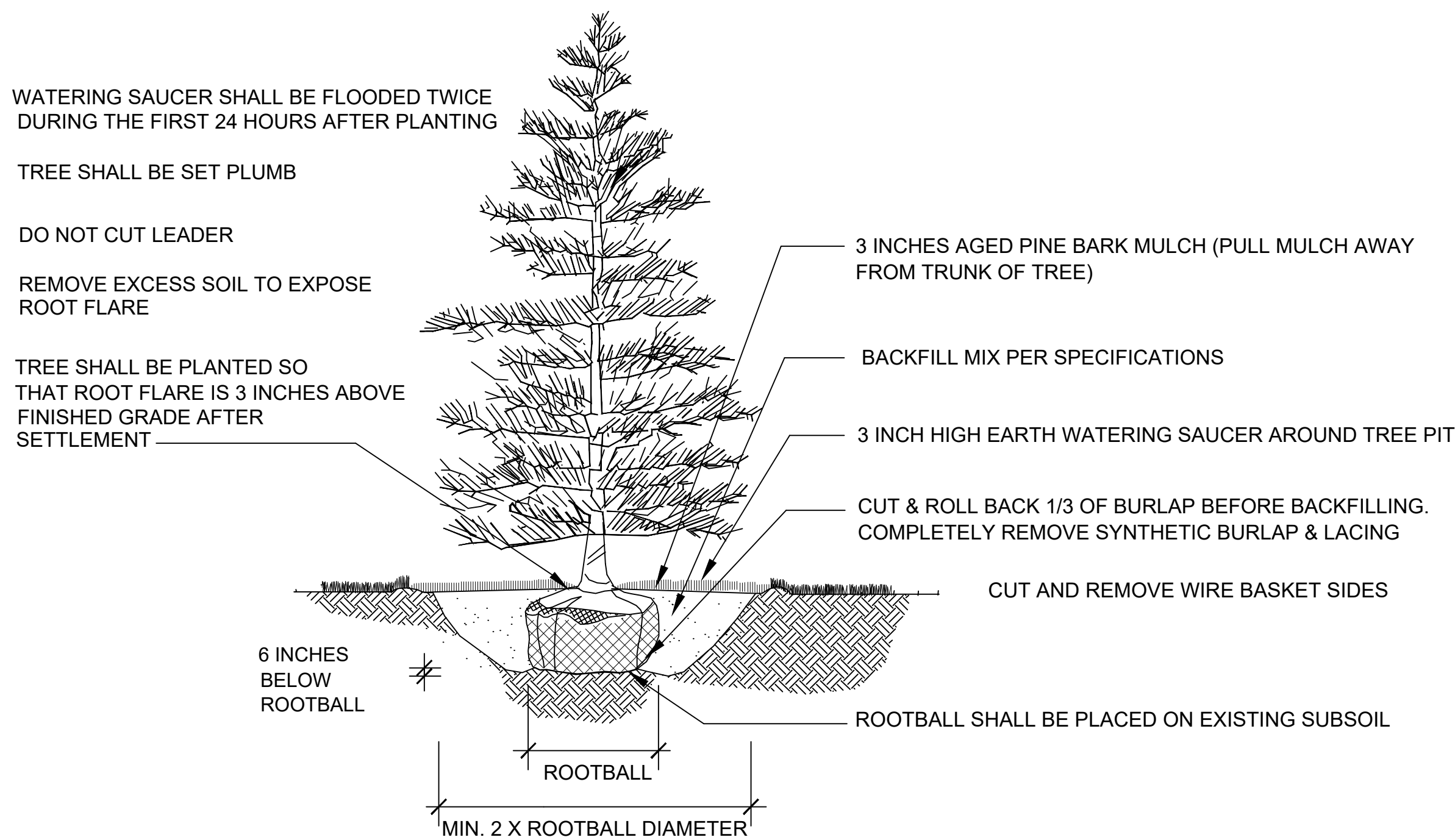
SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - ROOT ZONE

NOT TO SCALE

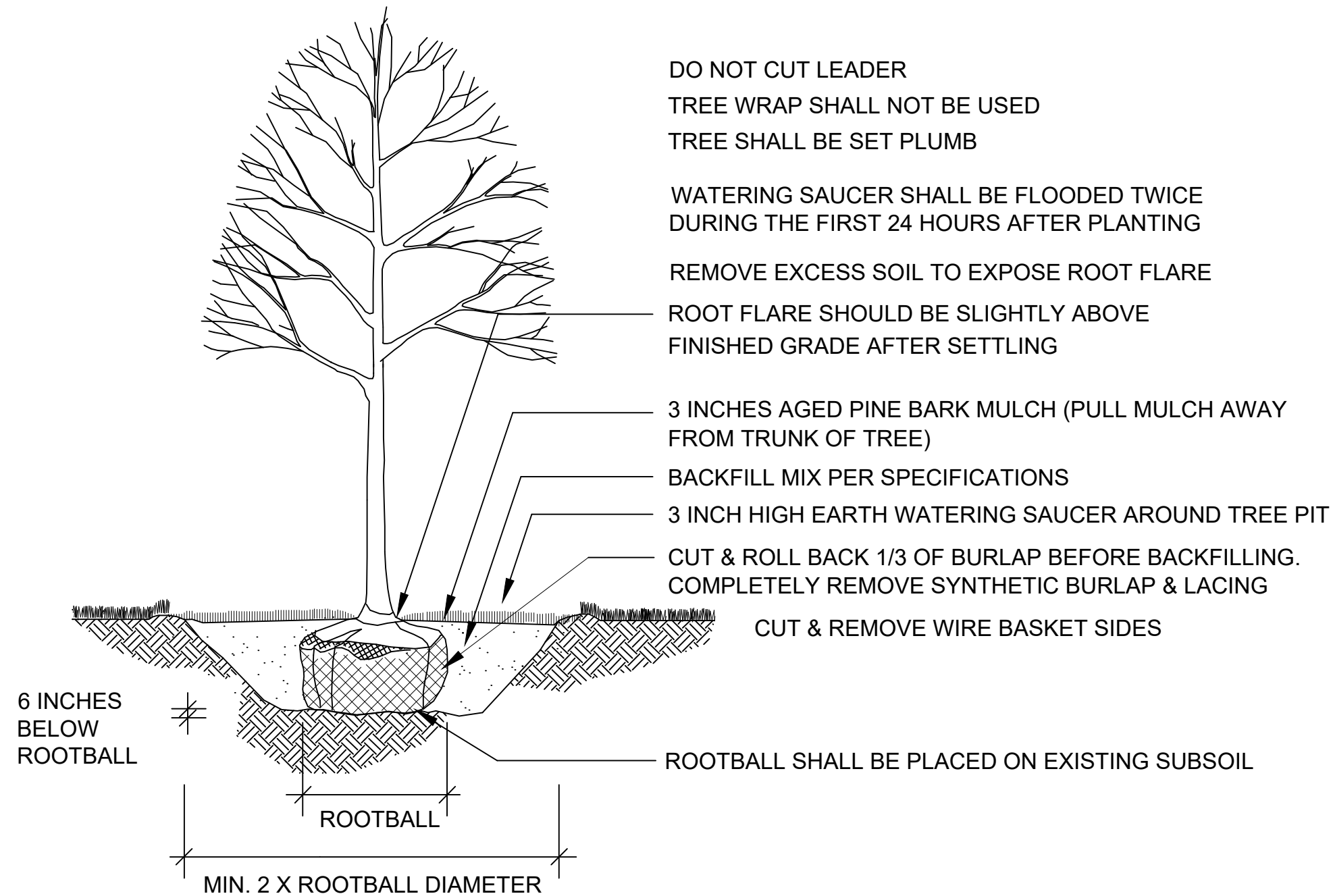
TREE PROTECTION - TRUNK

NOT TO SCALE



EVERGREEN TREE PLANTING

NOT TO SCALE

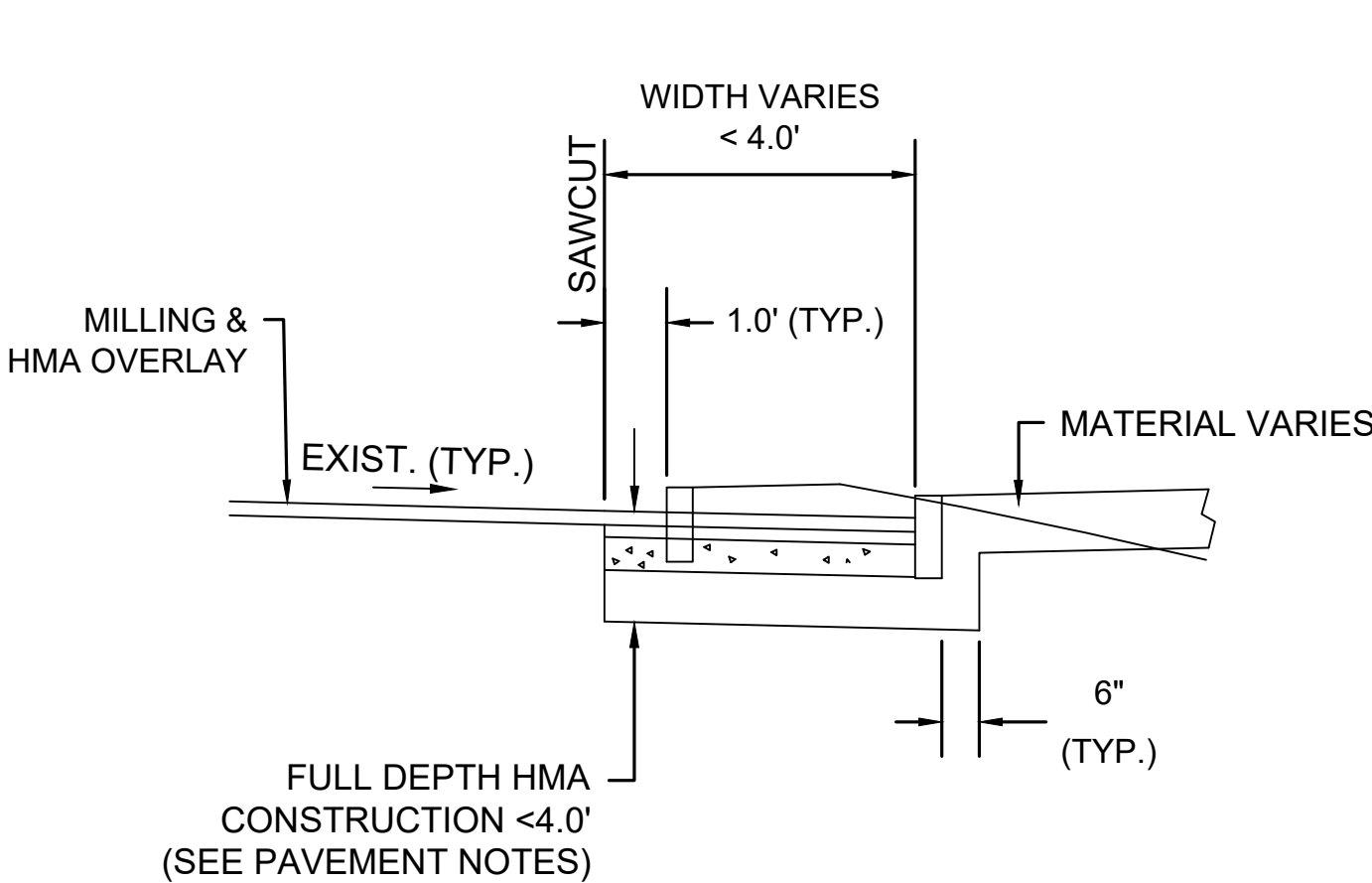


DECIDUOUS TREE PLANTING

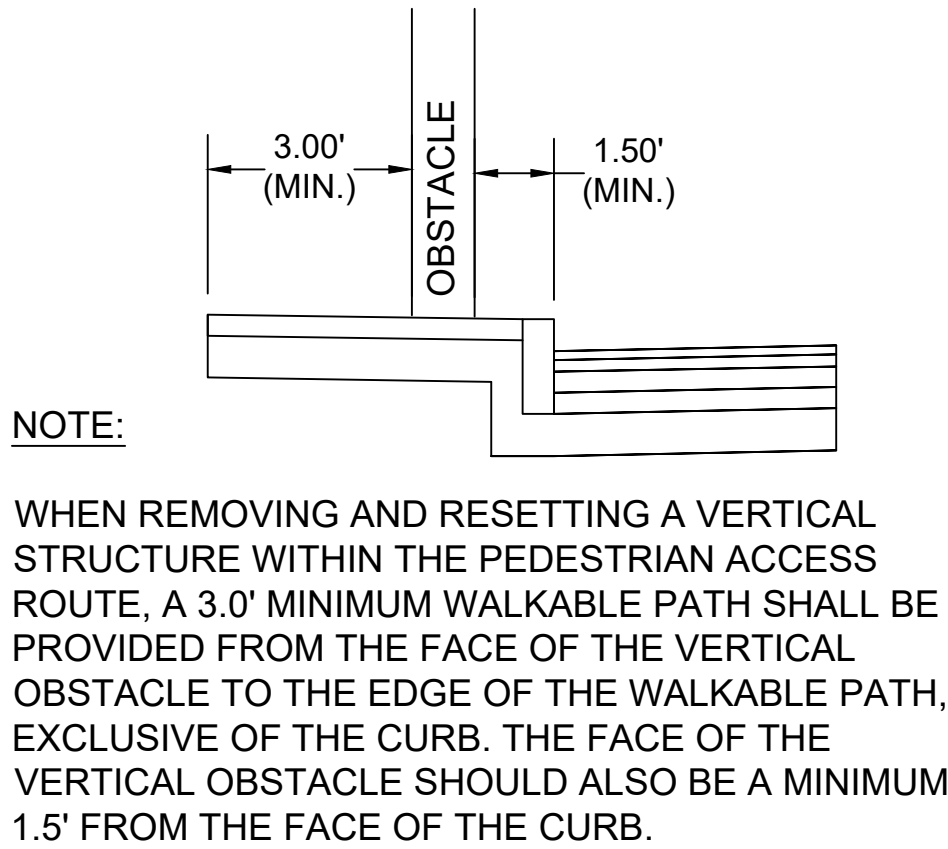
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	48
PROJECT FILE NO.		613129	

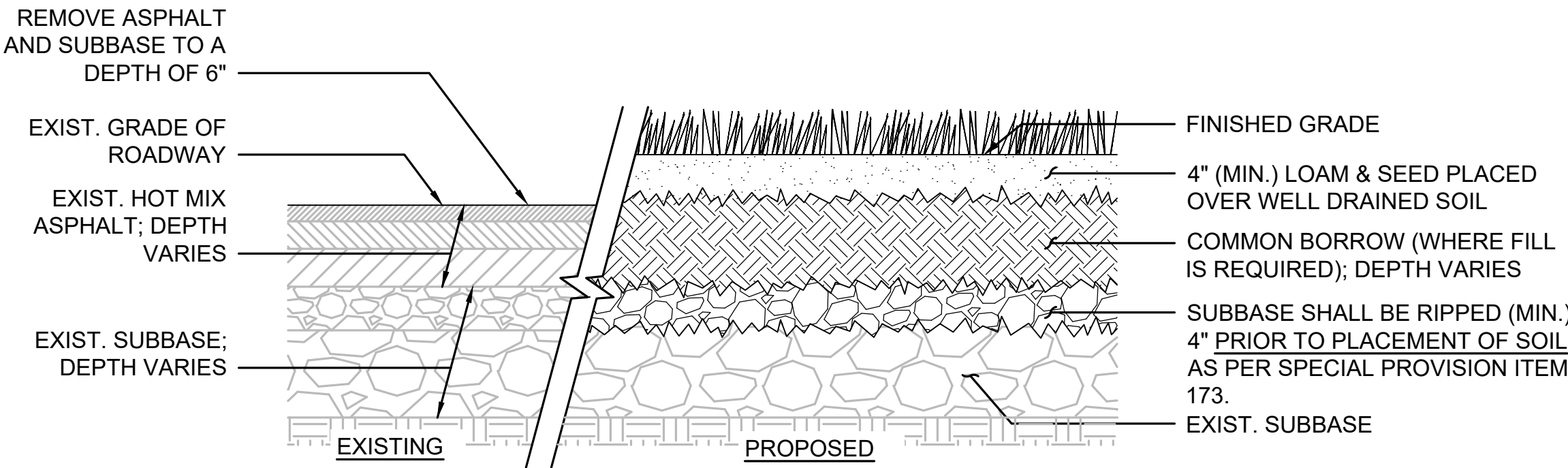
CONSTRUCTION DETAILS



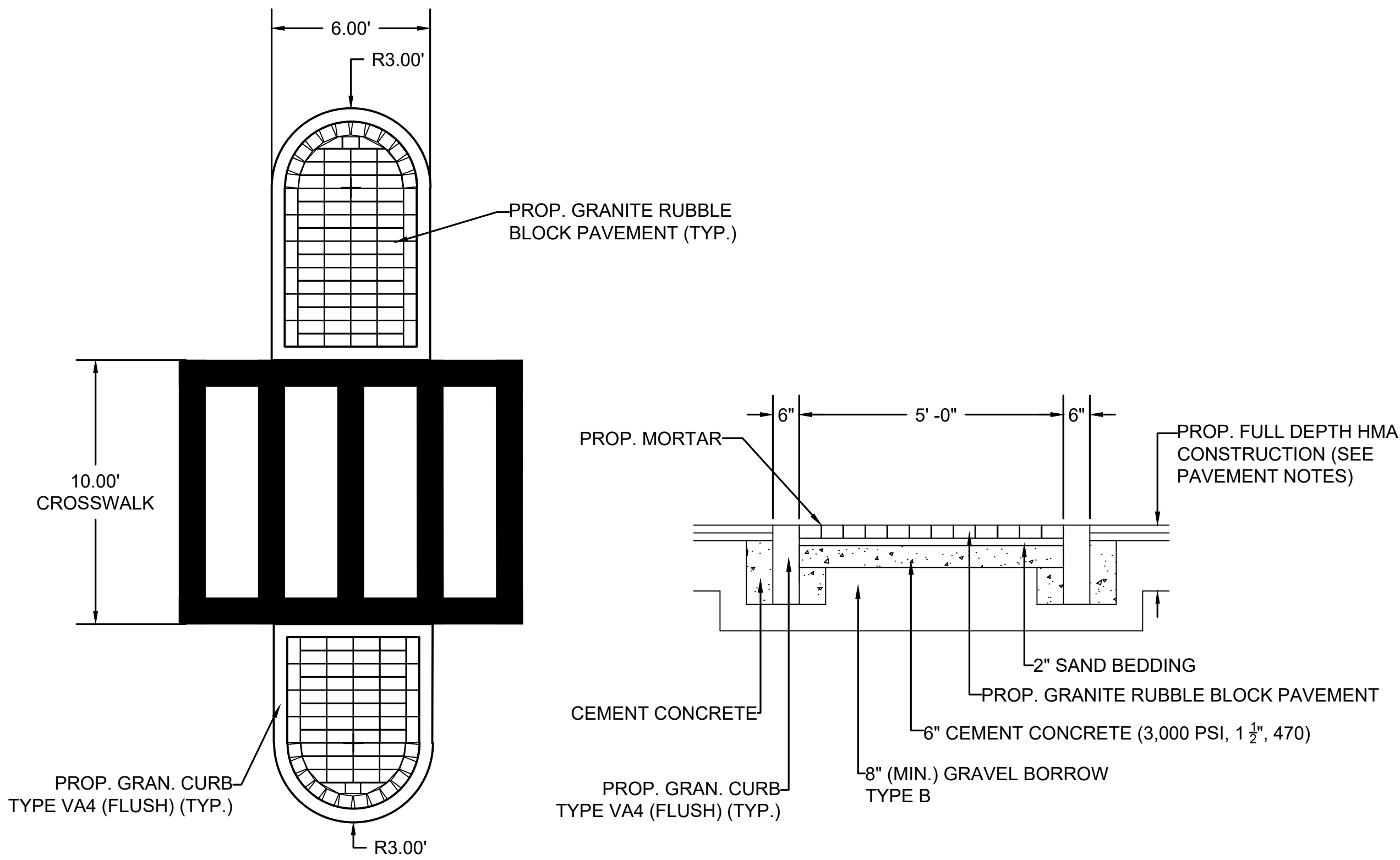
**TYPICAL SECTION:
ROADWAY WIDENING <4 FEET**
NOT TO SCALE



**MINIMUM HORIZONTAL
SIDEWALK CLEARANCE**
NOT TO SCALE



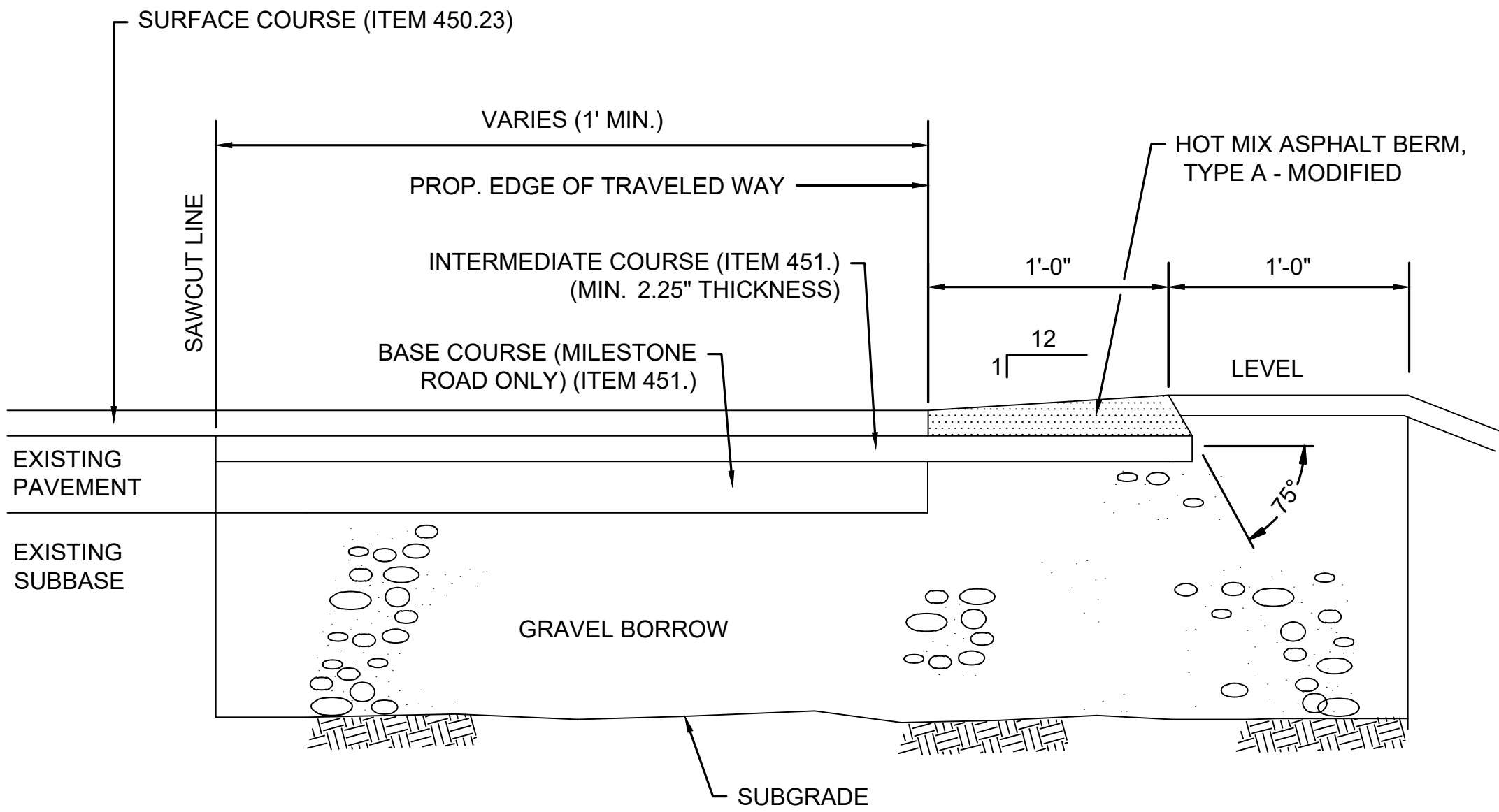
DECOMPACTION FOR LAWN
NOT TO SCALE



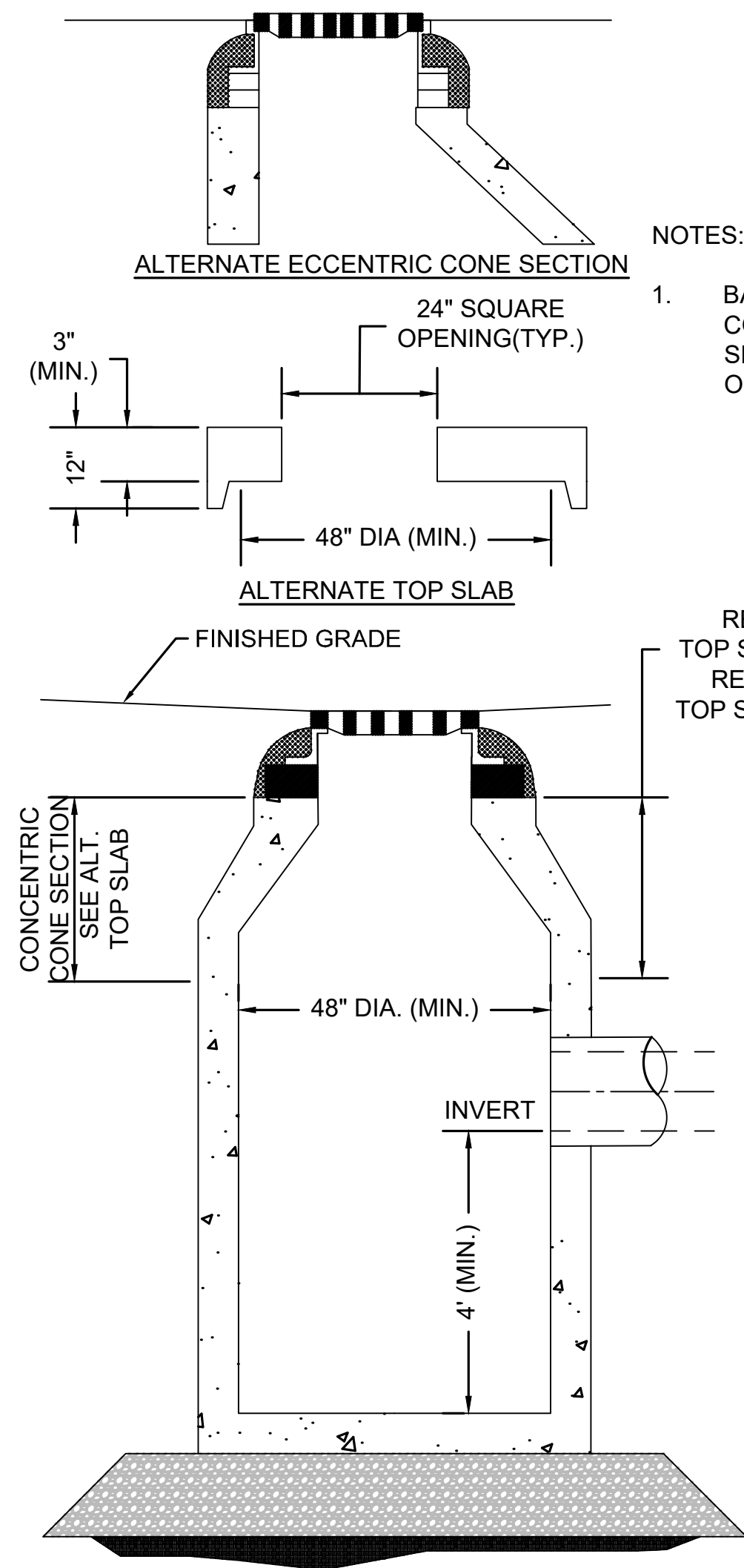
PLAN VIEW

SECTION VIEW

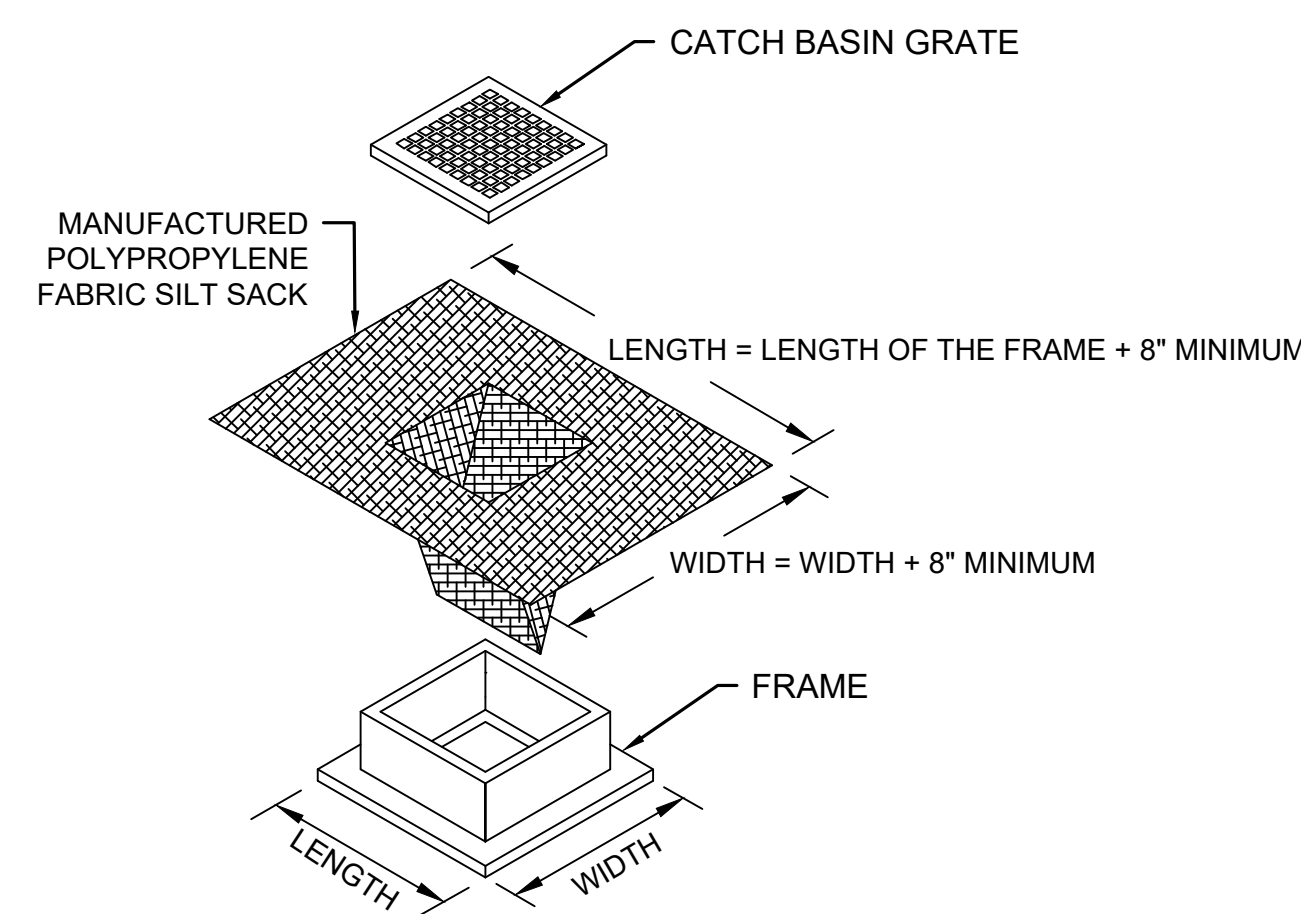
**GRANITE RUBBLE BLOCK
PAVEMENT DETAIL**
NOT TO SCALE



EXISTING HMA BERM REPLACEMENT
NOT TO SCALE

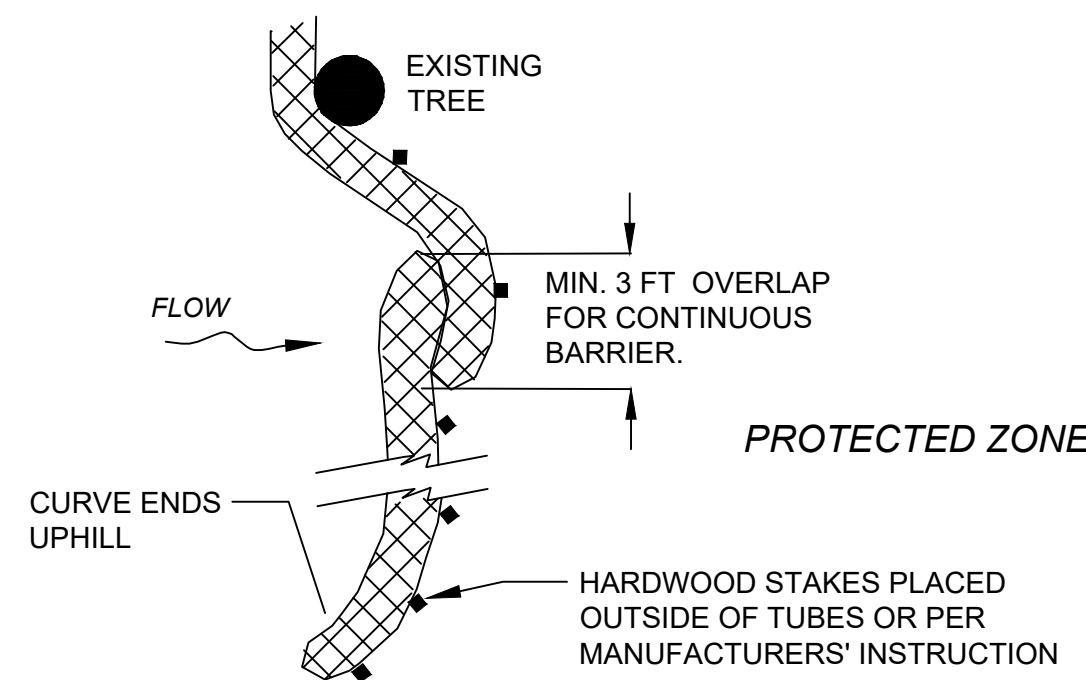


CATCH BASIN
NOT TO SCALE



- NOTES:**
1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
 2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
 3. FOR USE ON ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND PROPOSED CATCH BASINS THAT ARE IN OPERATION DURING CONSTRUCTION.

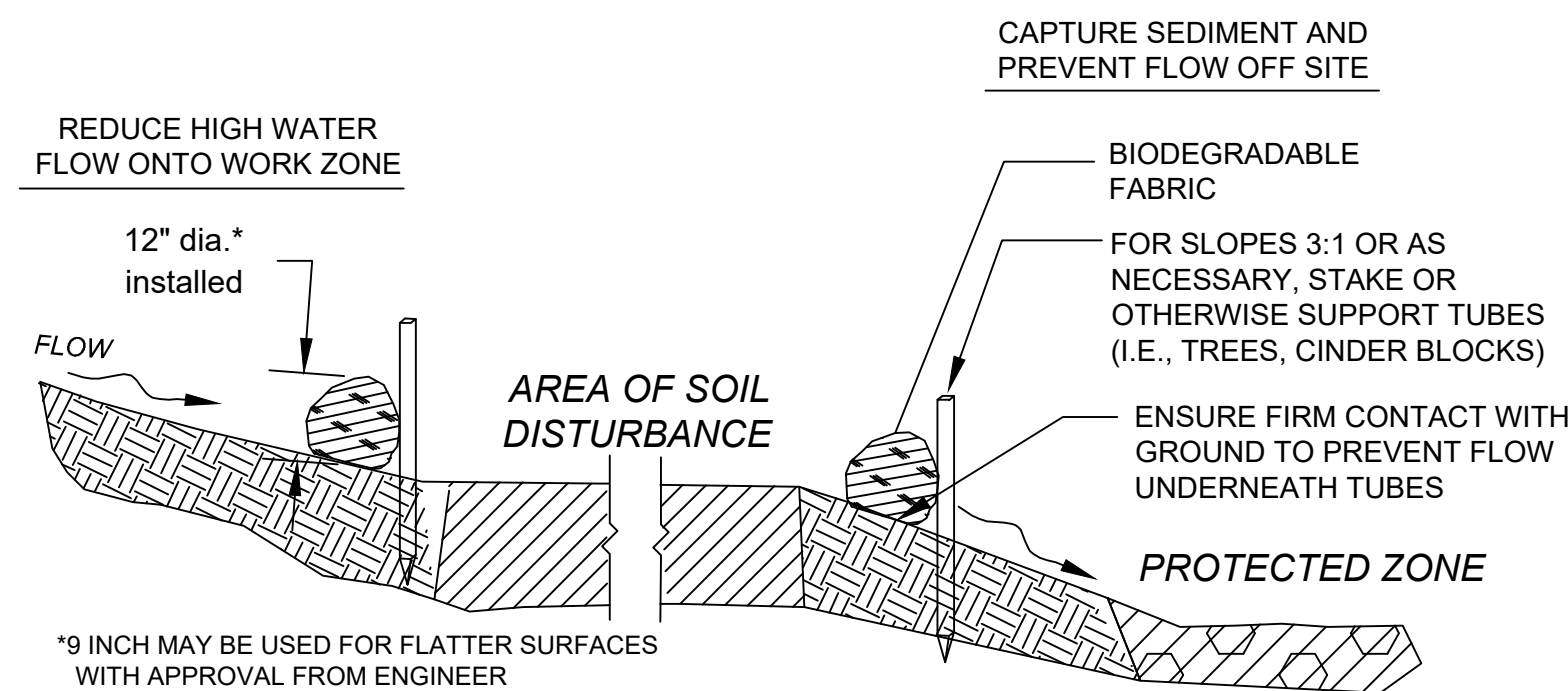
INLET SEDIMENT CONTROL DEVICE
NOT TO SCALE



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

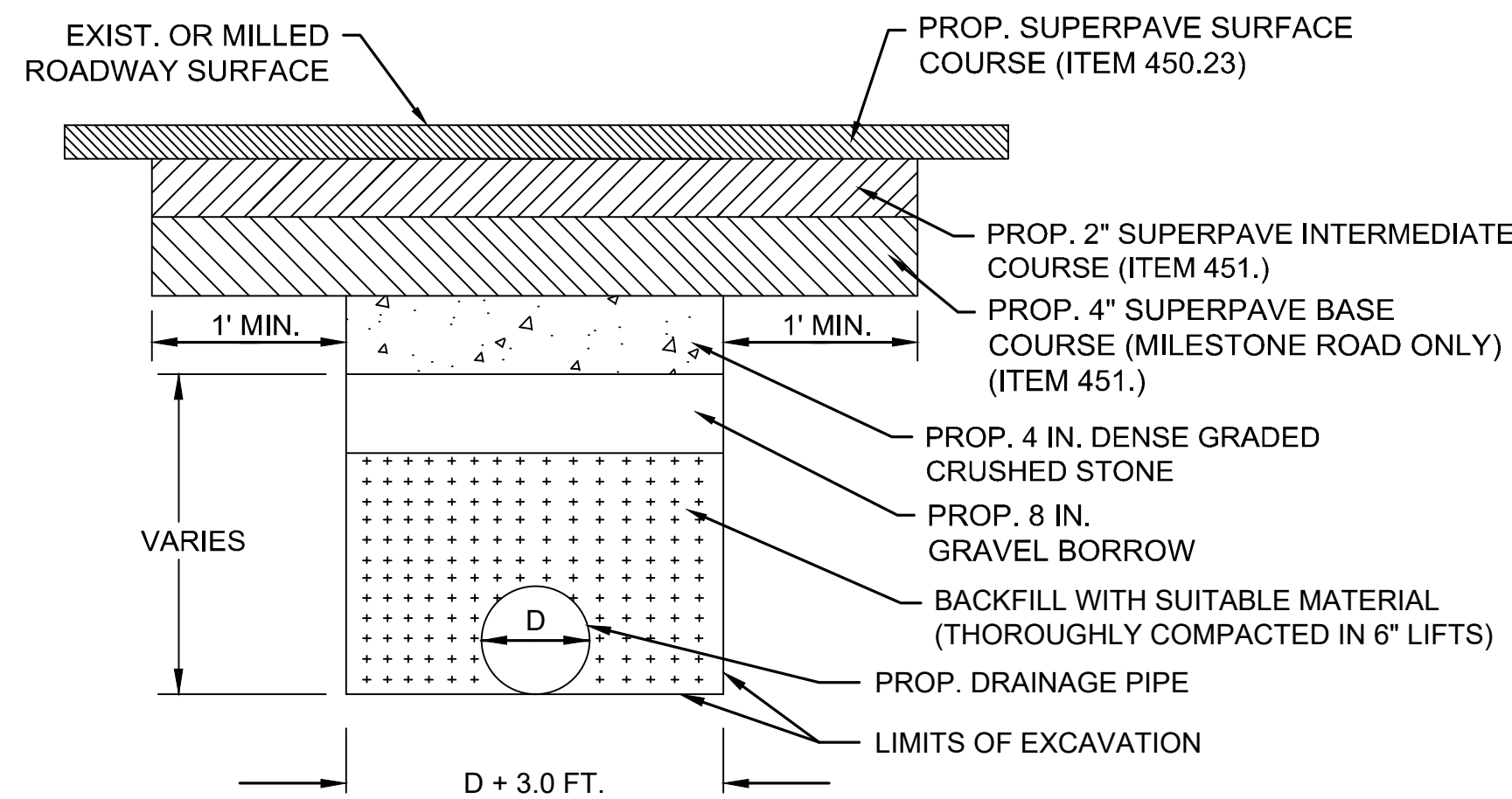
ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLAN VIEW



SECTION

SEDIMENT CONTROL BARRIER
NOT TO SCALE

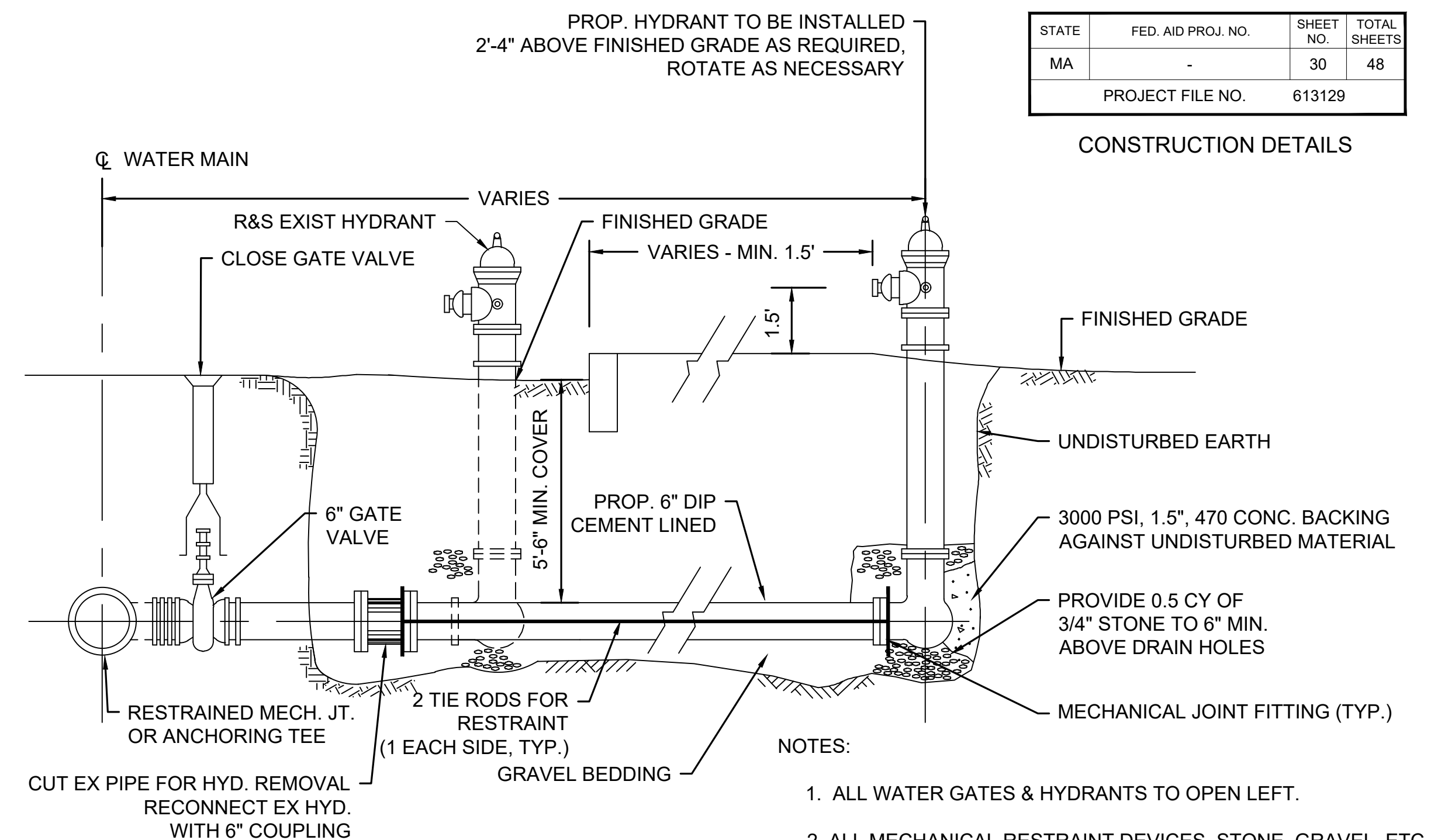


PERMANENT PATCH
(IN AREAS OF MILLING AND PAVEMENT OVERLAY)

NOTES:

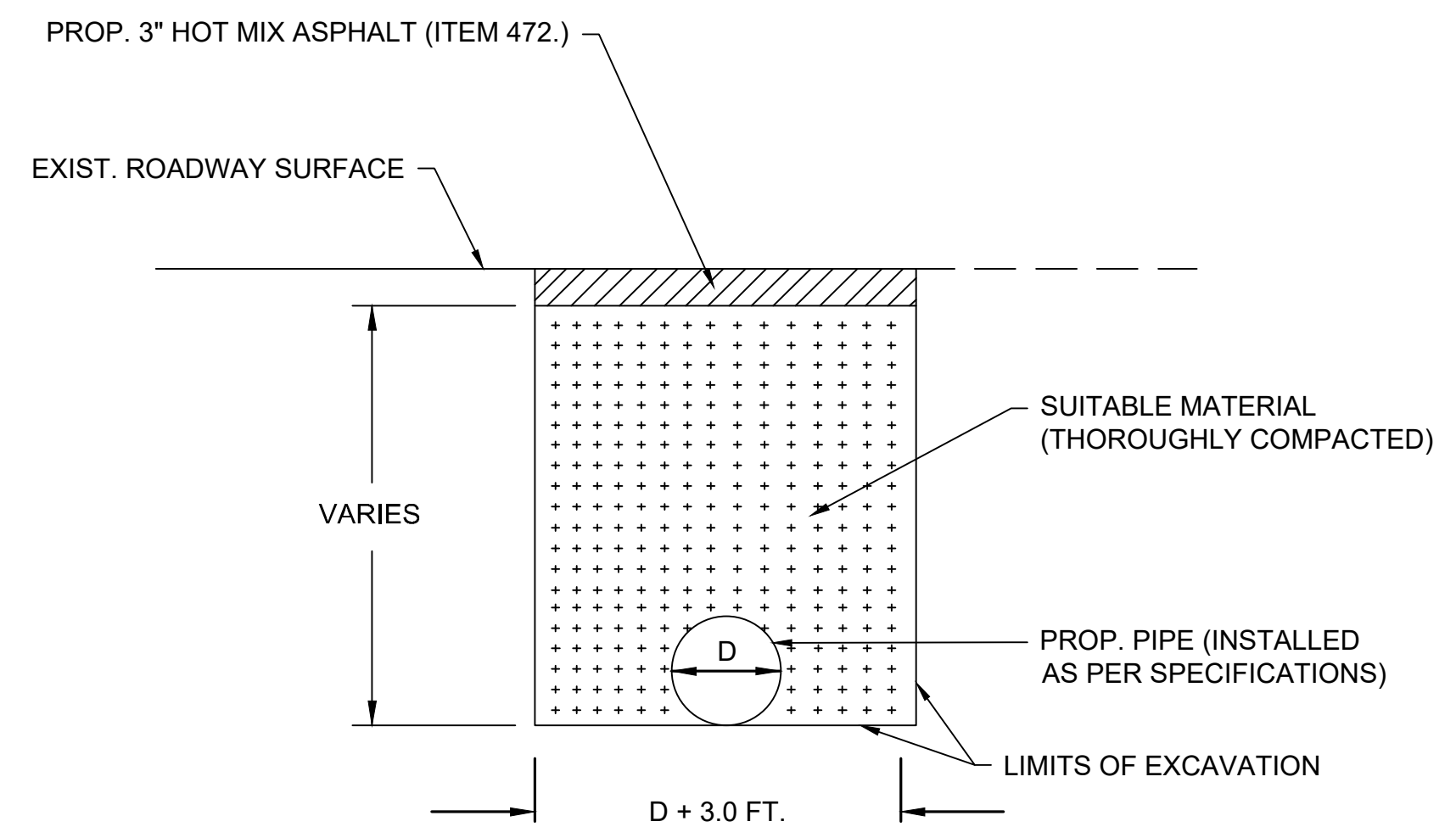
1. PLACE TACK COAT BETWEEN ALL HMA COURSES AND SAWCUT SURFACES PRIOR TO PLACING HMA. SEE PAVEMENT NOTES-FULL DEPTH HMA CONSTRUCTION FOR DEPTH OF HMA.
2. IF UNSUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY THE ENGINEER, ADDITIONAL BEDDING SHALL BE PAID FOR UNDER ITEM 156.
3. INTERMEDIATE COURSE SHALL BE PLACED UP TO EXISTING PAVEMENT SURFACE AND THEN MILLED AS PART OF OVERALL MILLING OPERATION.

DRAINAGE TRENCH DETAIL
NOT TO SCALE



HYDRANT DETAIL
NOT TO SCALE

- NOTES:**
1. ALL WATER GATES & HYDRANTS TO OPEN LEFT.
 2. ALL MECHANICAL RESTRAINT DEVICES, STONE, GRAVEL, ETC. NECESSARY TO INSTALL OR REMOVE AND RESET HYDRANTS ARE INCIDENTAL TO ITEM 376.2.

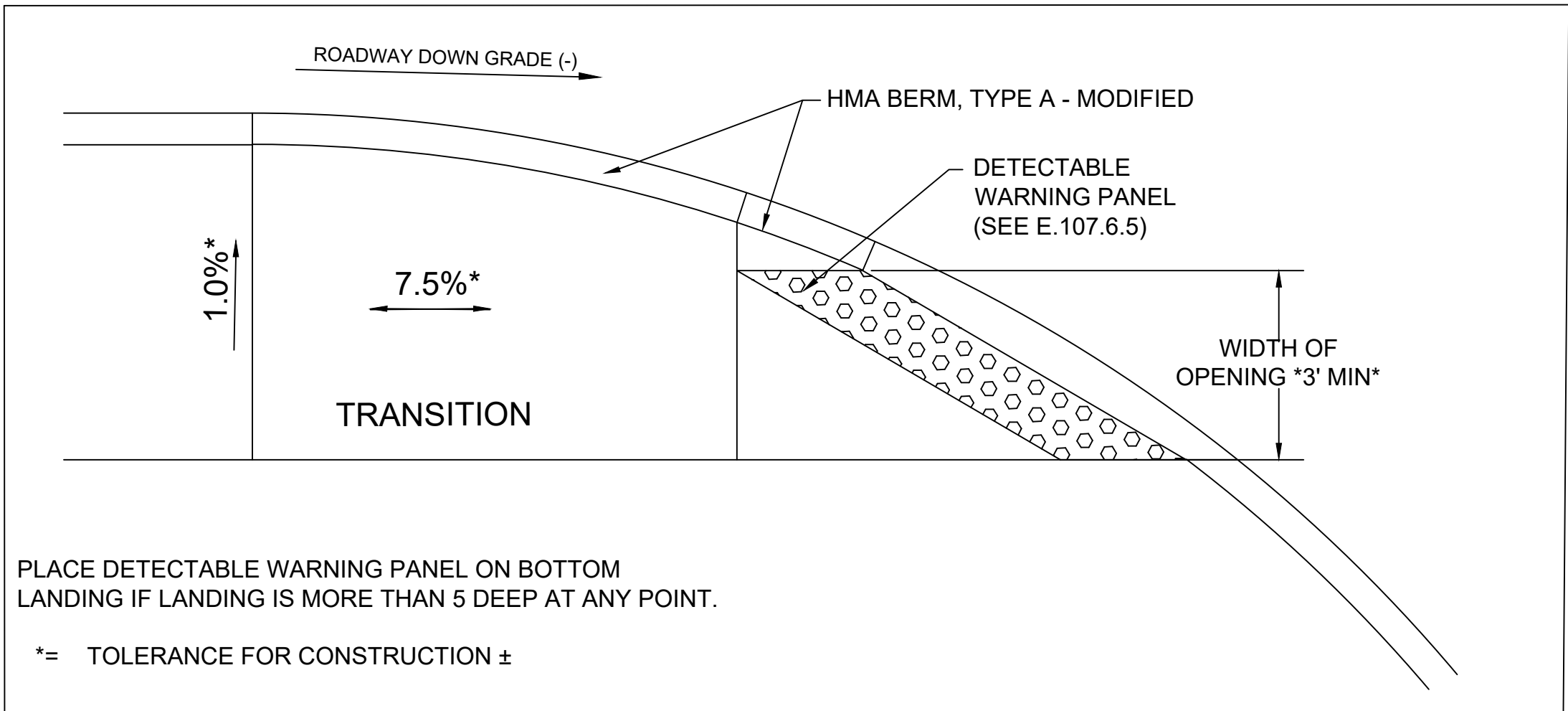


TEMPORARY TRENCH REPAIR
(IN AREAS OF FULL DEPTH HMA CONSTRUCTION)
NOT TO SCALE

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	48
PROJECT FILE NO.		613129	

CONSTRUCTION DETAILS



PLACE DETECTABLE WARNING PANEL ON BOTTOM LANDING IF LANDING IS MORE THAN 5 DEEP AT ANY POINT.

*= TOLERANCE FOR CONSTRUCTION ±

PCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***
1	POLIS ROAD	100+32	36.73' LT	10.00'	10.00'	0.87%	NA
2	POLIS ROAD	100+32	34.51' RT	10.00'	10.00'	0.97%	NA

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

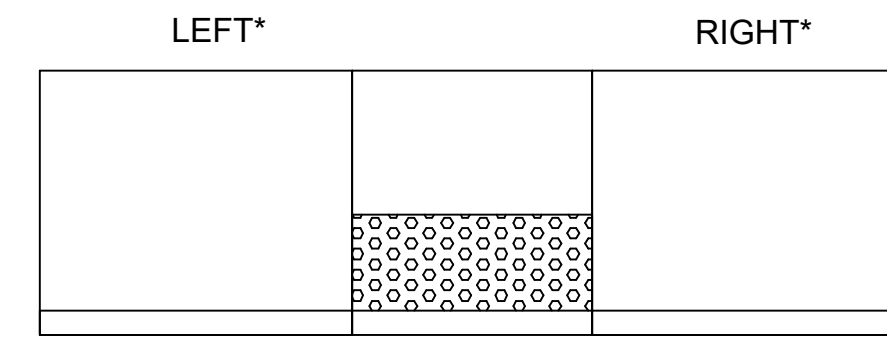
PEDESTRIAN AND BICYCLIST CROSSING FOR ONE CONTINUOUS DIRECTION OF TRAVEL

ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" Max

NOTE:

* BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".

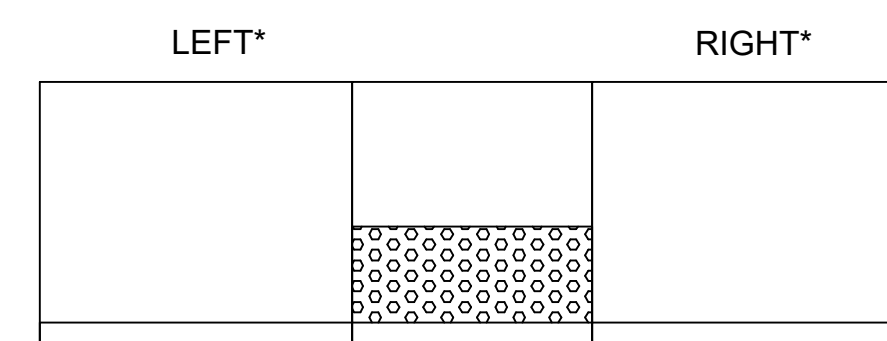
NEGATIVE SLOPE (-)



ROADWAY DOWNGRADE

* AS VIEWED FROM CONSTRUCTION BASELINE

POSITIVE SLOPE (+)



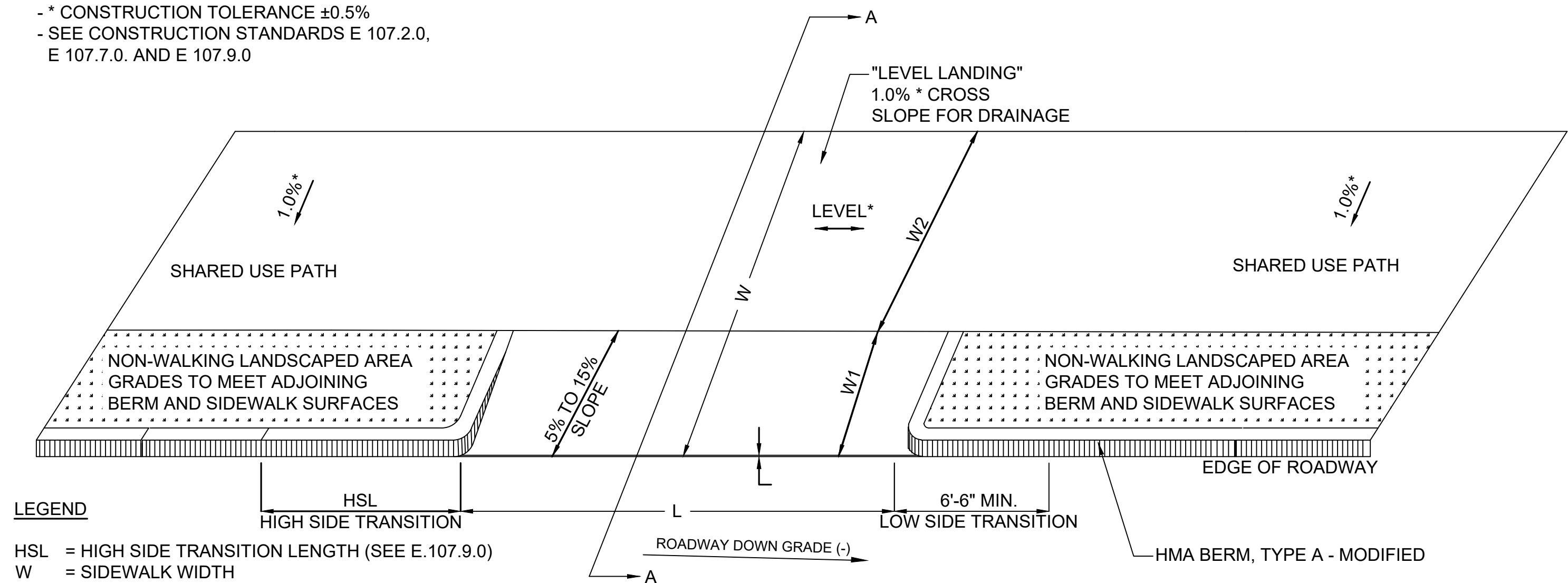
LOW SIDE TRANS HIGH SIDE TRANS

ROADWAY DOWNGRADE

* AS VIEWED FROM CONSTRUCTION BASELINE

NOTES:

- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0



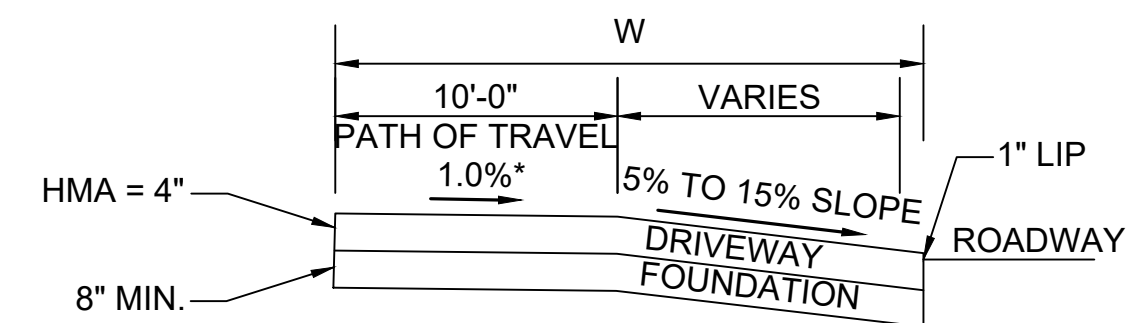
LEGEND

HSL = HIGH SIDE TRANSITION LENGTH (SEE E.107.9.0)

W = SIDEWALK WIDTH

* = TOLERANCE FOR CONSTRUCTION ±0.5%

HMA = HOT MIX ASPHALT



SECTION A-A

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH (W2)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET					LEFT SIDE	RIGHT SIDE
1	MILESTONE ROAD	21+19	10.49' LT	11'-0"	20'-0"	10'-0"	1.80%	NA	NA
2	MILESTONE ROAD	23+96	12.70' LT	8'-10"	20'-0"	10'-0"	-1.30%	NA	NA
3	MILESTONE ROAD	24+76	14.50' LT	7'-0"	20'-0"	10'-0"	-1.30%	NA	NA

*** AS VIEWED FROM PROPOSED CONSTRUCTION BASELINE

SHARED USE PATH AT DRIVEWAYS SEPARATED BY CURB RETURNS

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	48
PROJECT FILE NO.		613129	

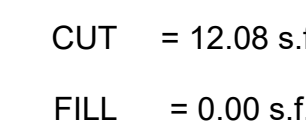
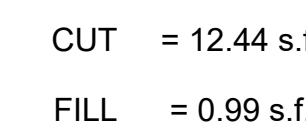
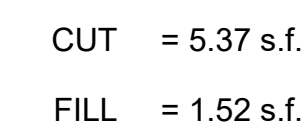
PEDESTRIAN CURB RAMP &
DRIVEWAY DETAILS

HOR. SCALE IN FEET

4 0 4 8

VER. SCALE IN FEET

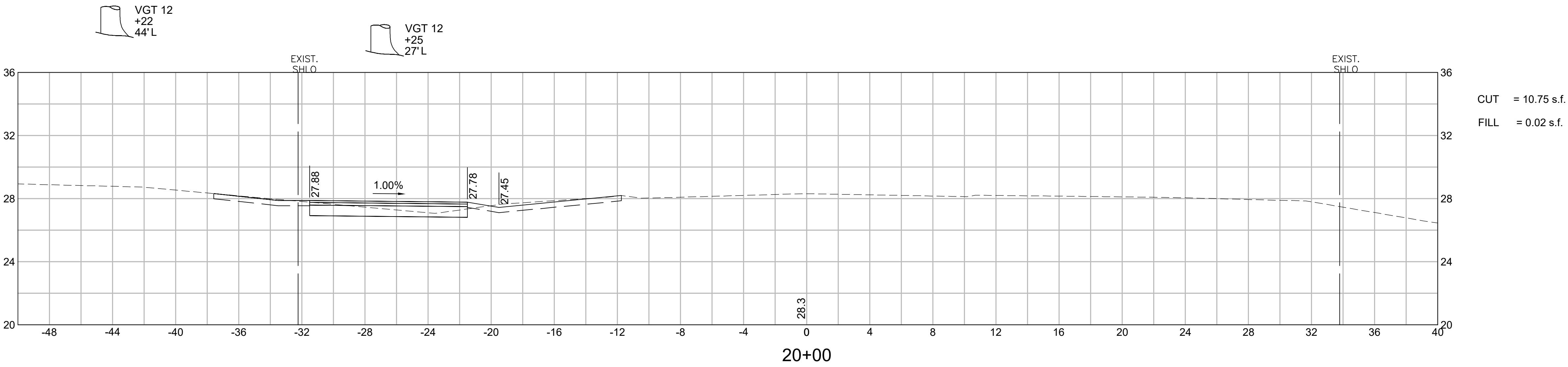
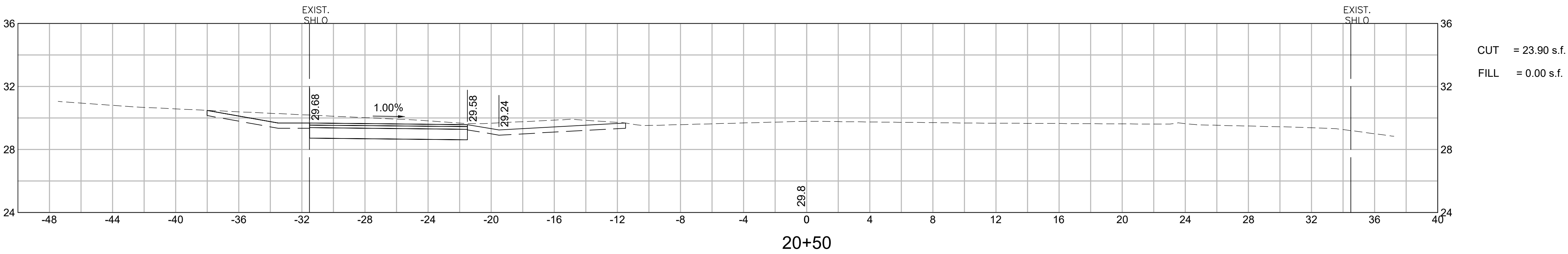
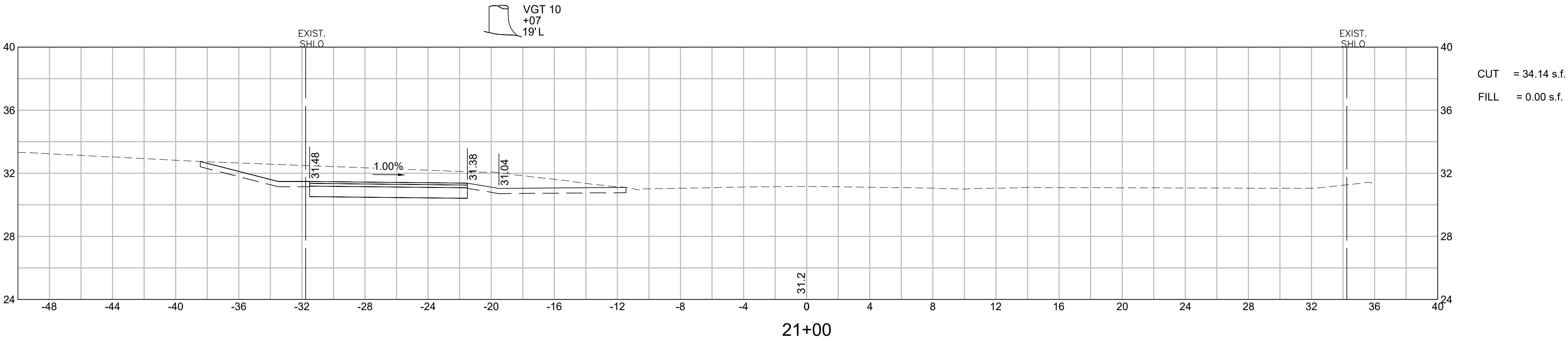
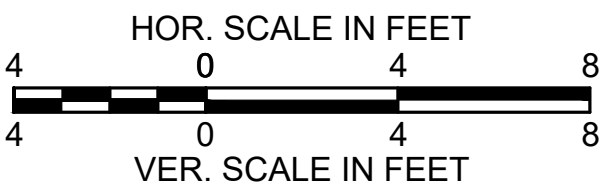
4 0 4 8



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	48
PROJECT FILE NO.		613129	

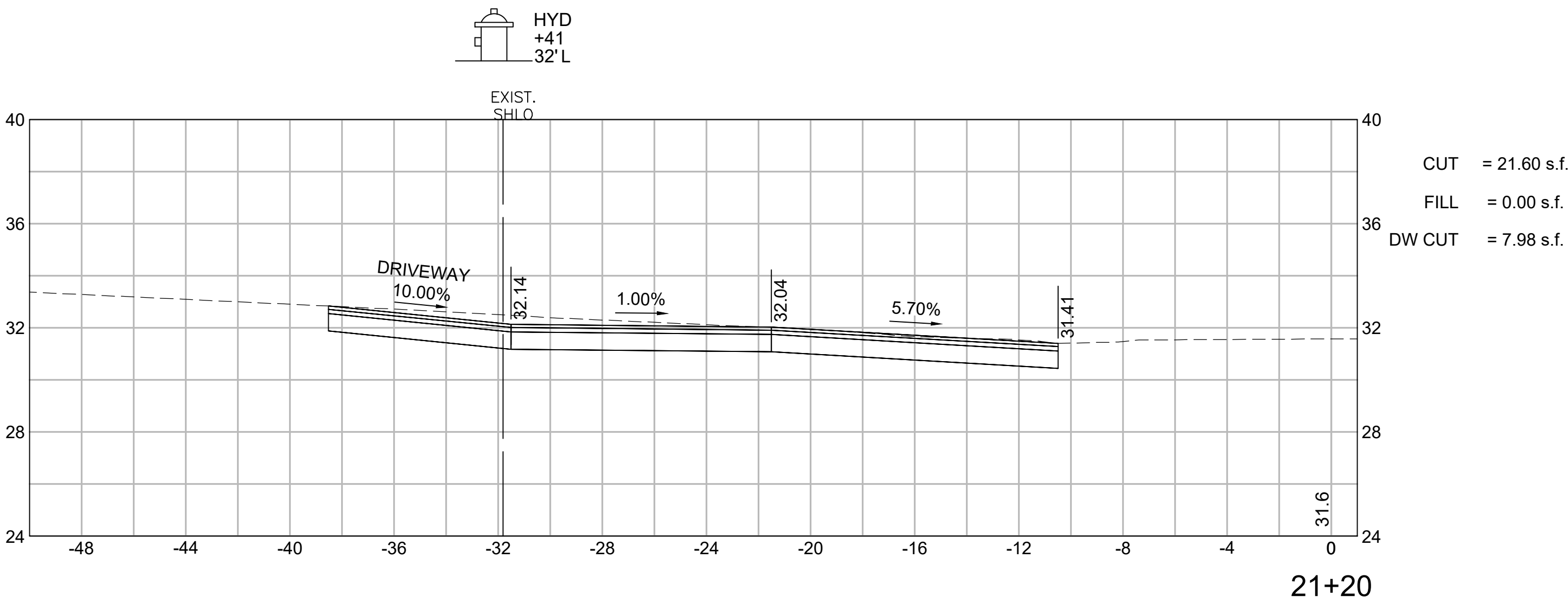
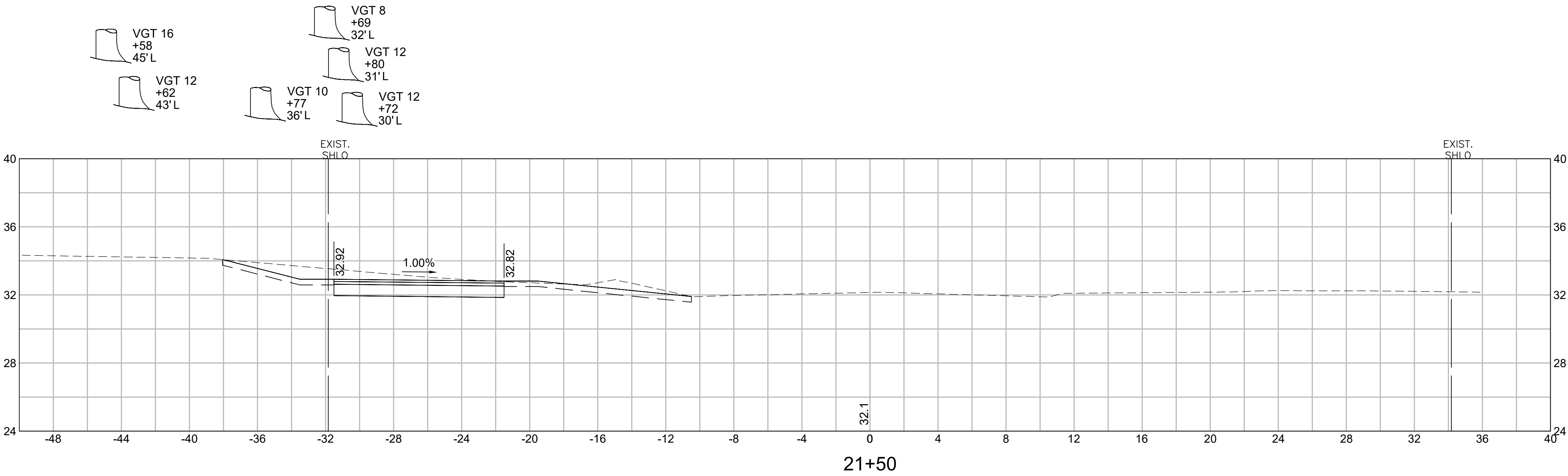
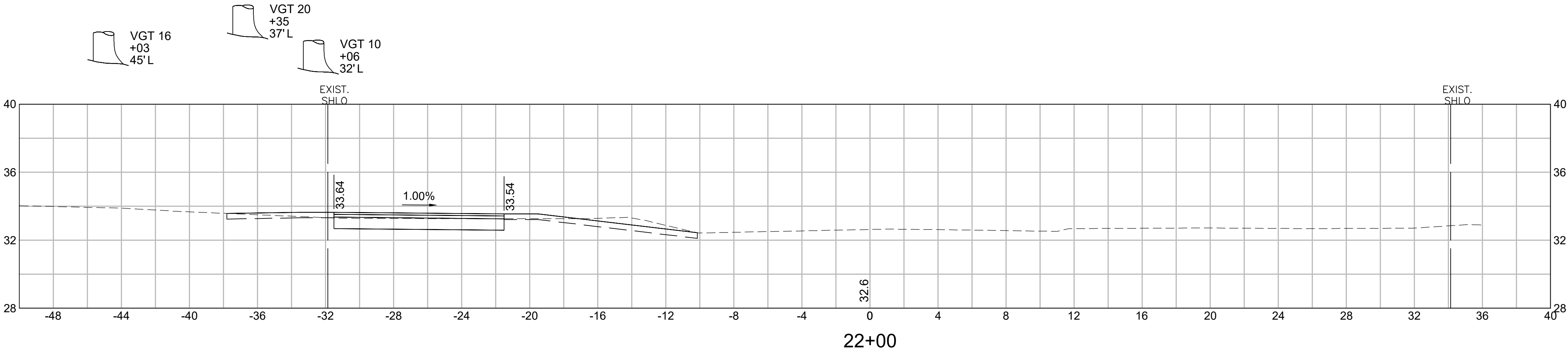
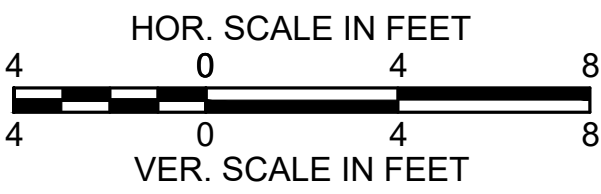
CROSS SECTIONS
MILESTONE ROAD



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	48
PROJECT FILE NO.		613129	

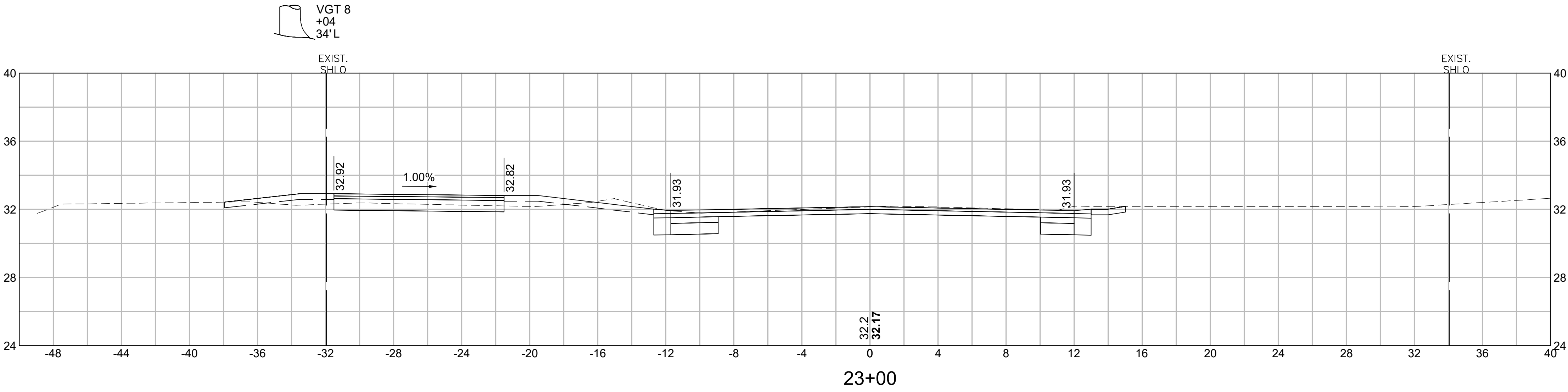
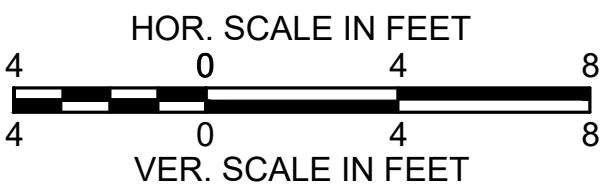
CROSS SECTIONS
MILESTONE ROAD



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

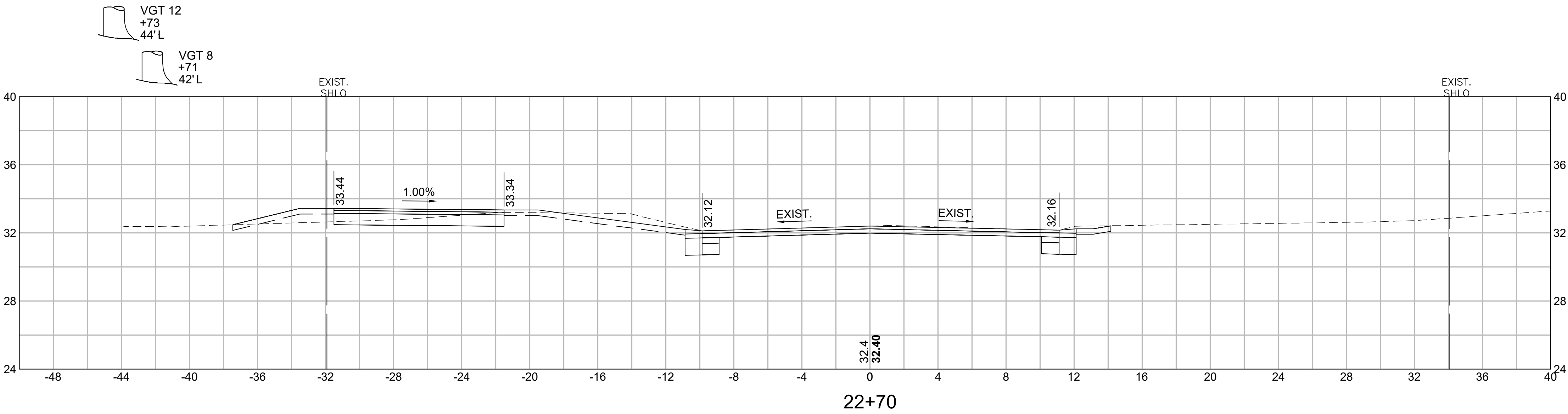
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	48
PROJECT FILE NO.		613129	

CROSS SECTIONS
MILESTONE ROAD



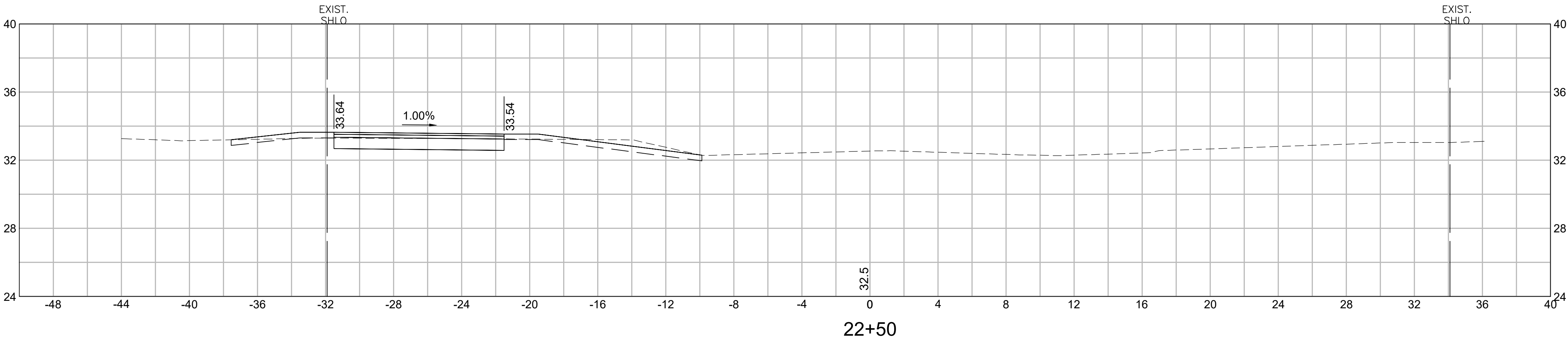
CUT = 17.10 s.f.

FILL = 1.81 s.f.



CUT = 16.91 s.f.

FILL = 1.58 s.f.



CUT = 11.27 s.f.

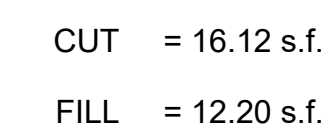
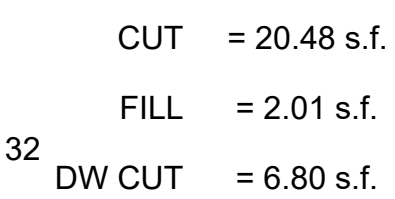
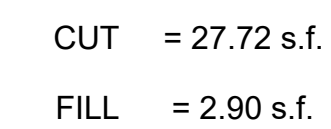
FILL = 0.04 s.f.

HOR. SCALE IN FEET

4 0 4 8

VER. SCALE IN FEET

4 0 4 8



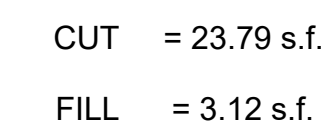
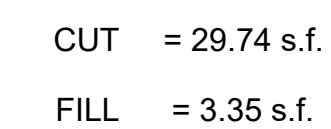
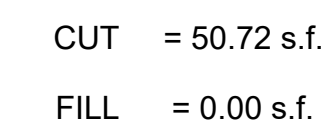
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	48
PROJECT FILE NO.		613129	

HOR. SCALE IN FEET

4 0 4 8

VER. SCALE IN FEET

4 0 4 8

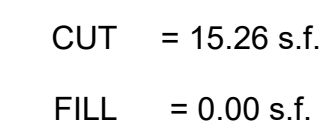
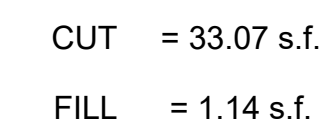
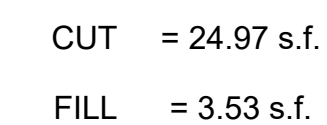


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VER. SCALE IN FEET

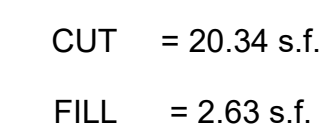
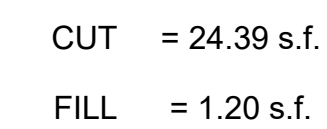
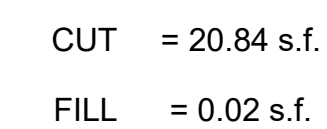


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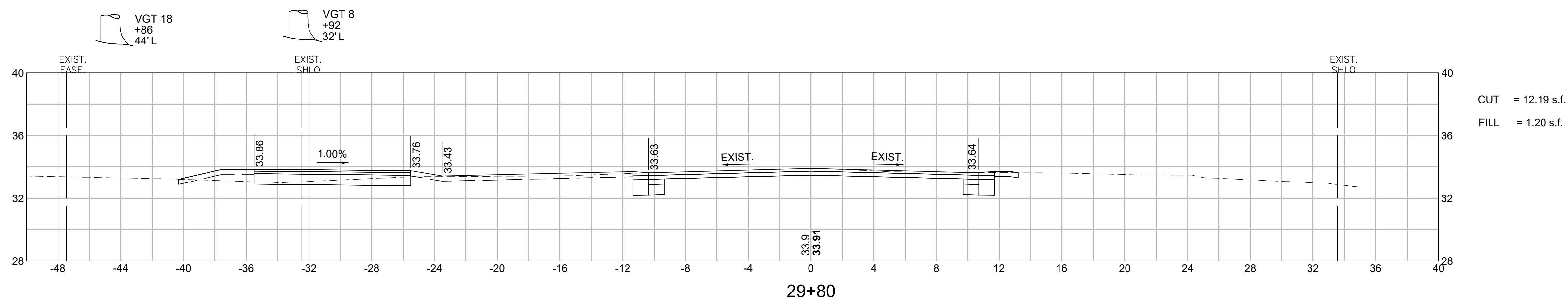
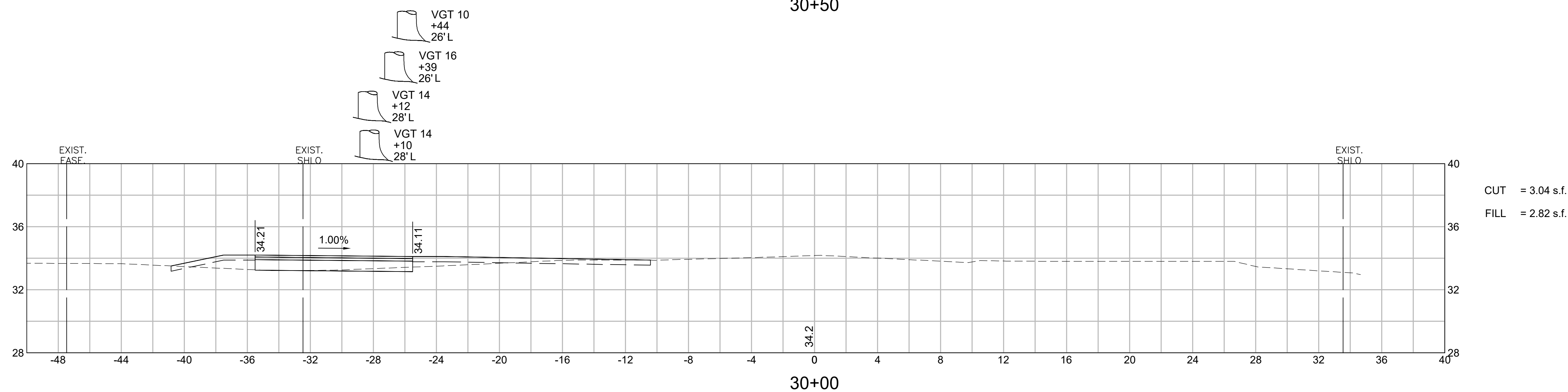
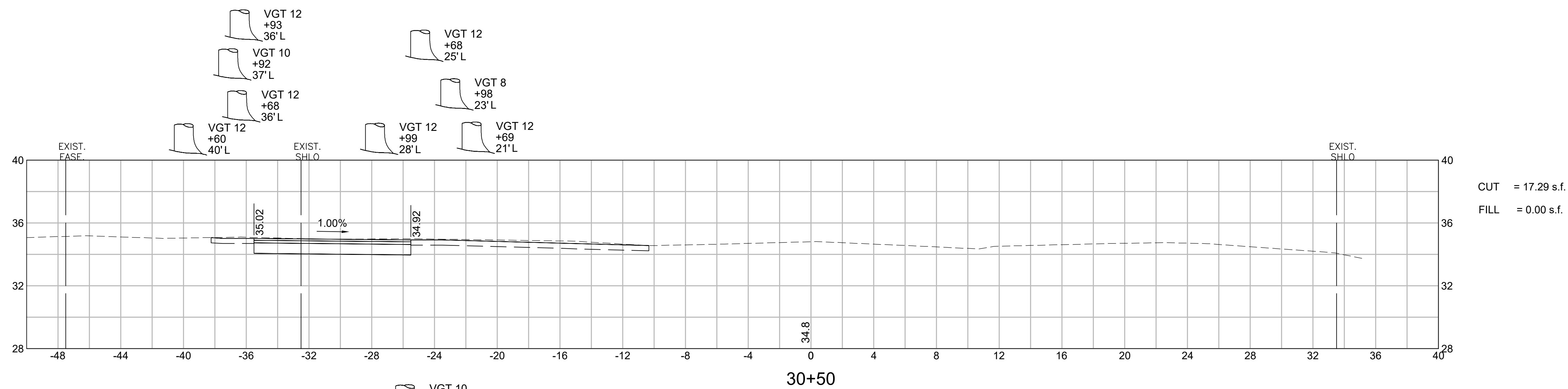
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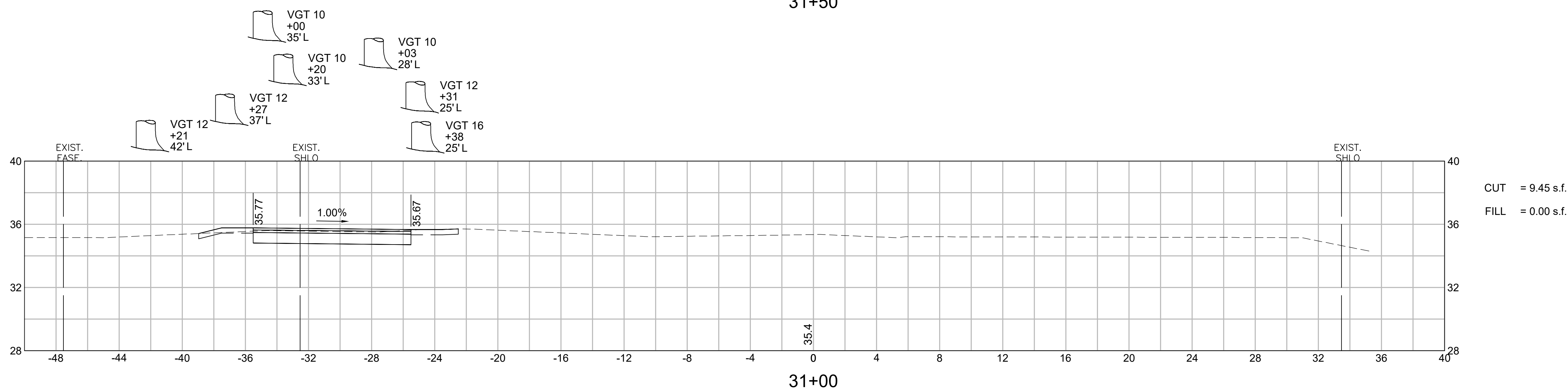
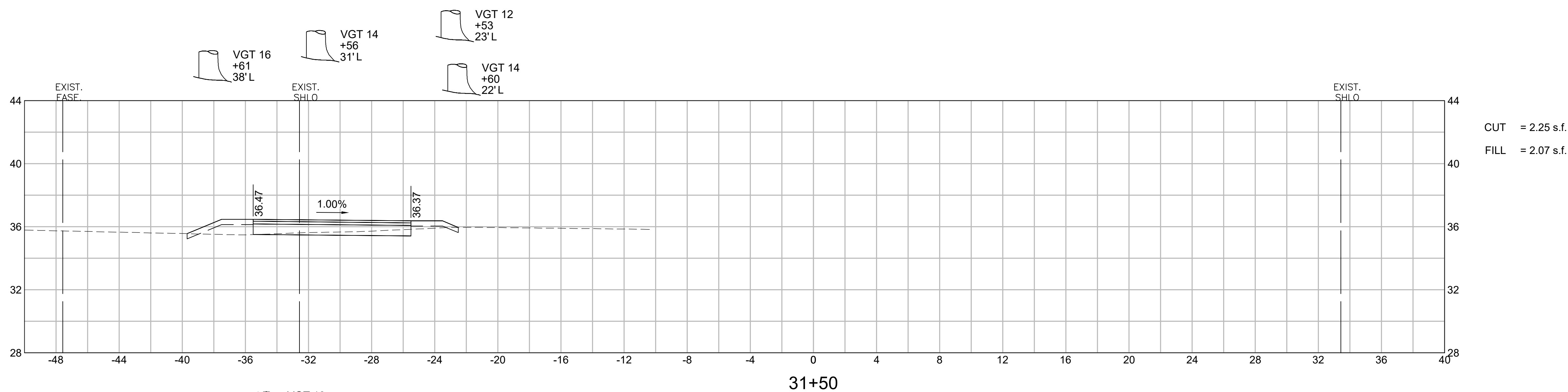
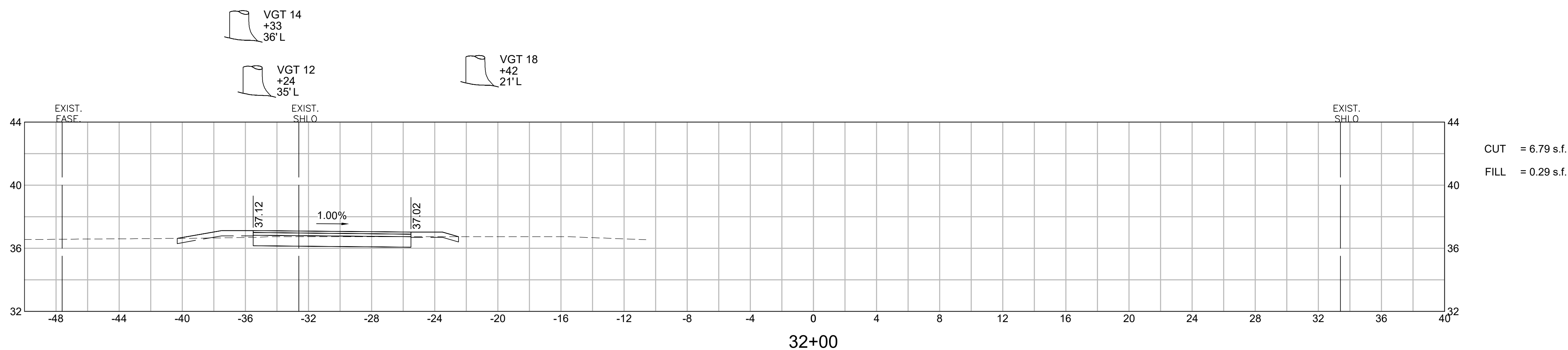
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613129 HD (XS) DWG Plotted on 31-May-2023 11:26 AM



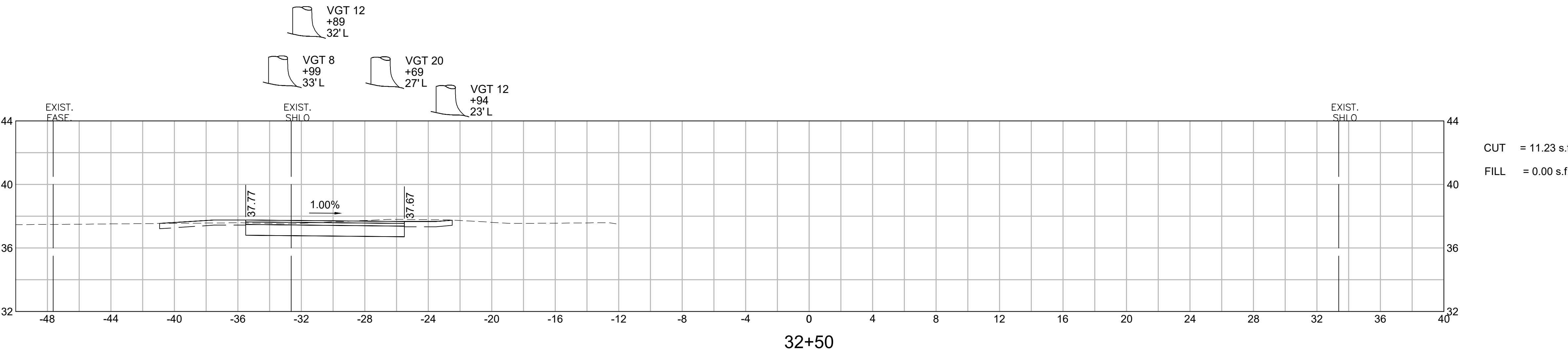
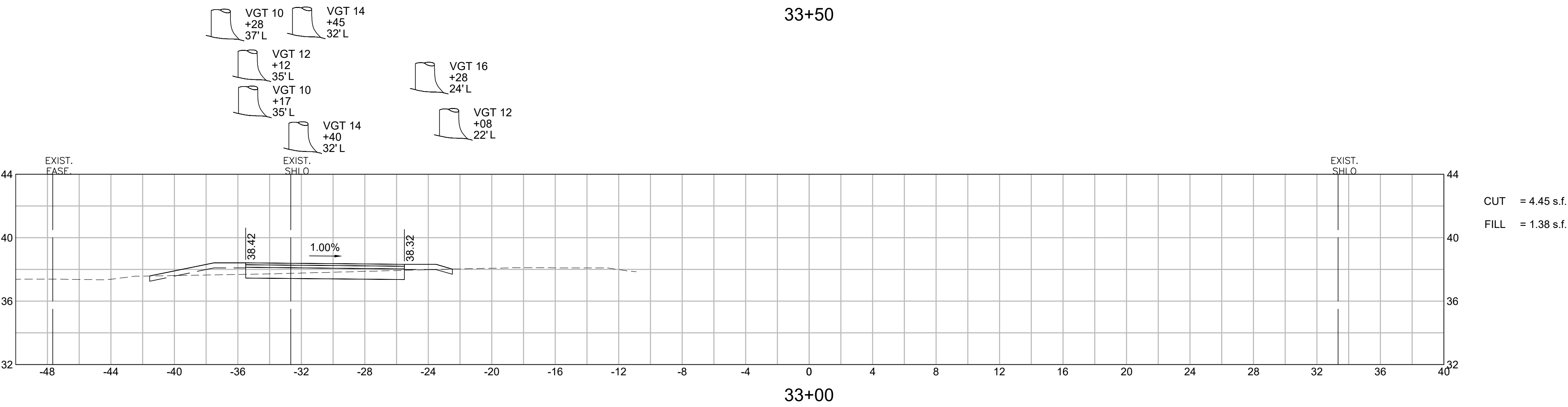
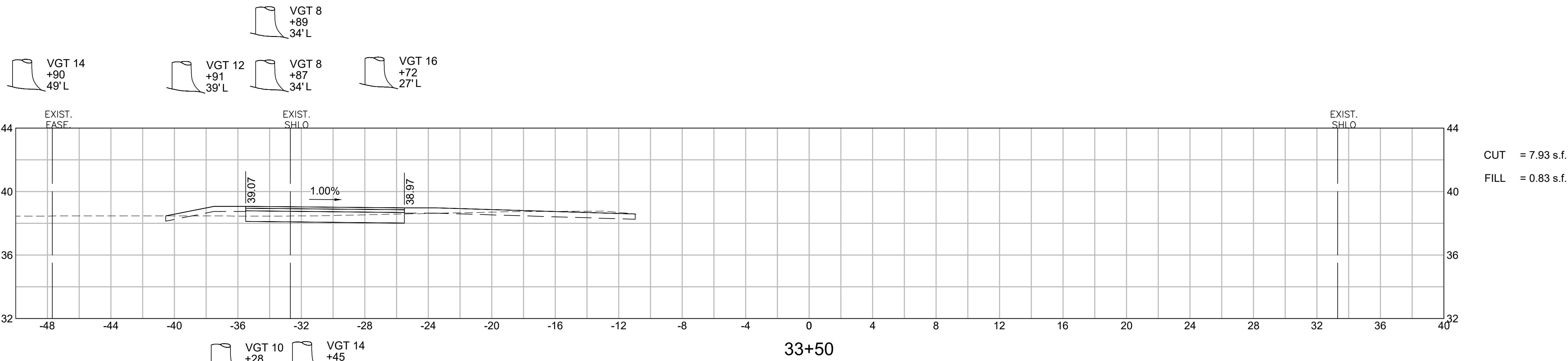
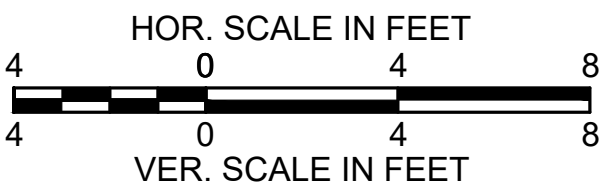
613129 HD (XS) DWG Plotted on 31-May-2023 11:26 AM



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	43	48
PROJECT FILE NO.		613129	

CROSS SECTIONS
MILESTONE ROAD

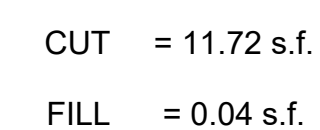
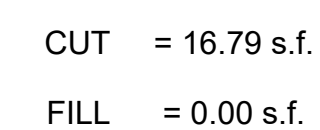
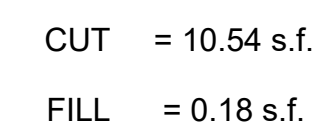


HOR. SCALE IN FEET

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VER. SCALE IN FEET

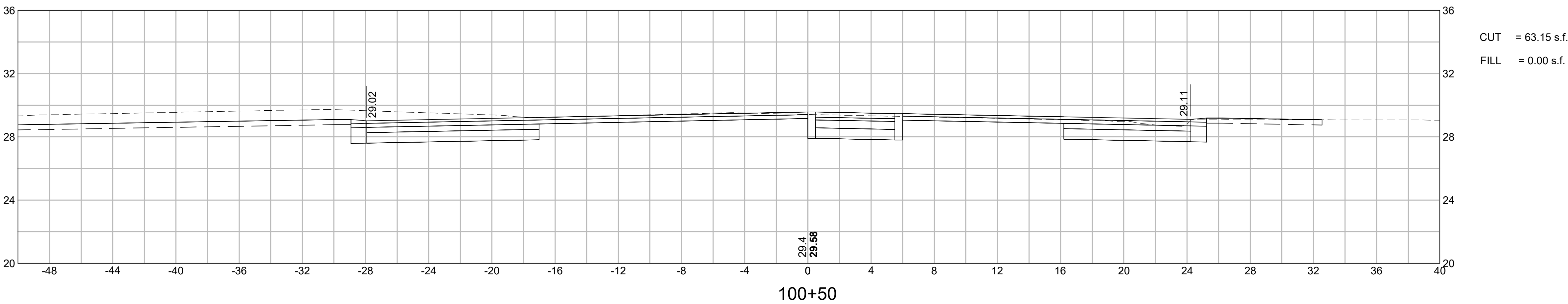
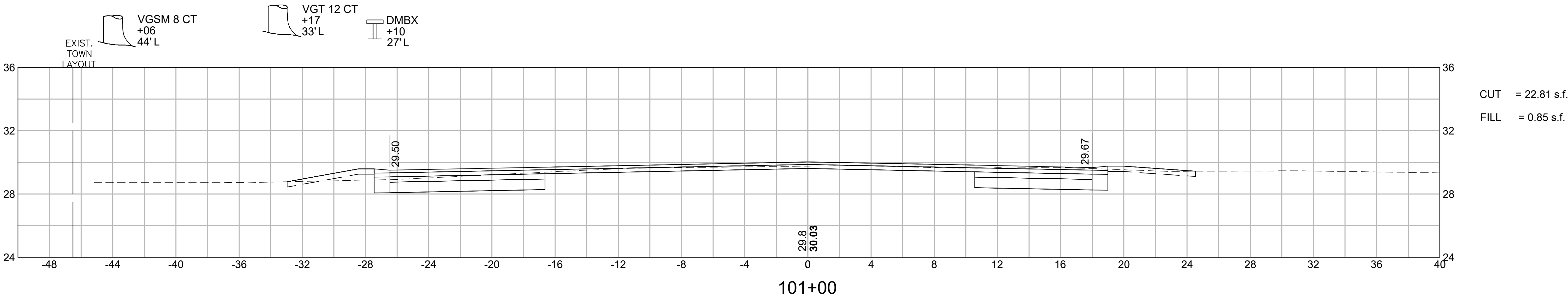
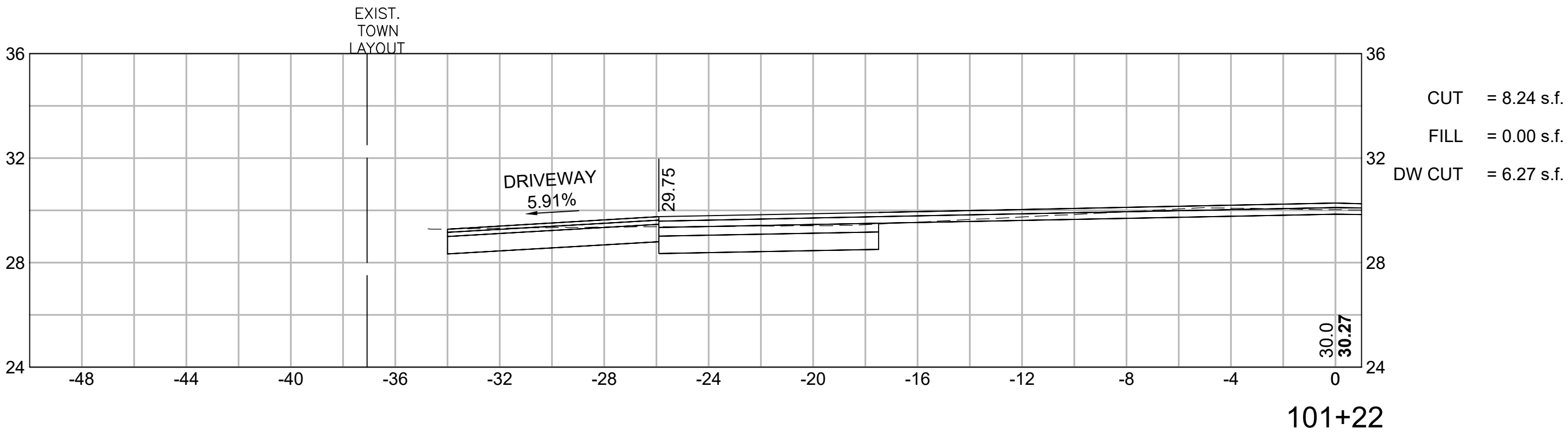
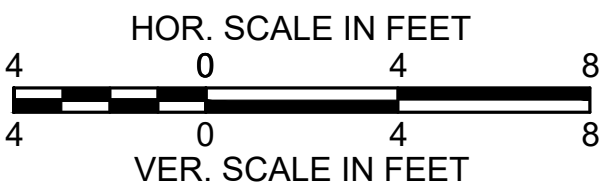
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NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	48
PROJECT FILE NO.		613129	

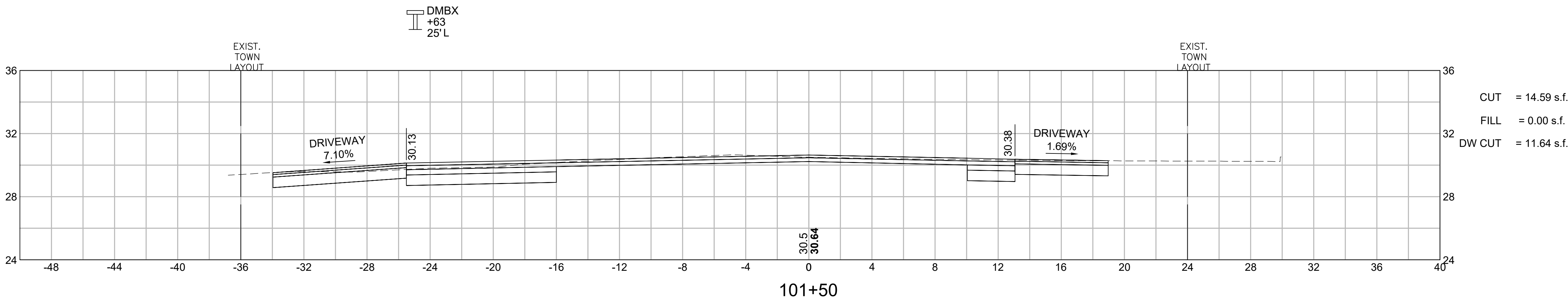
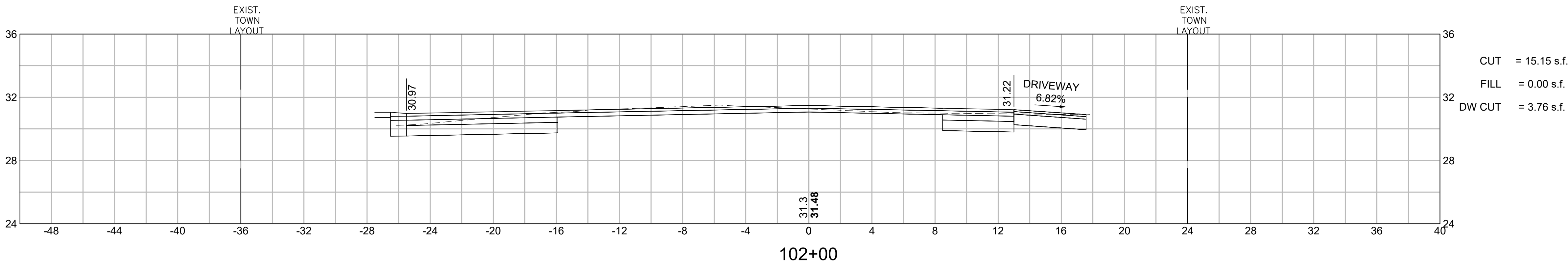
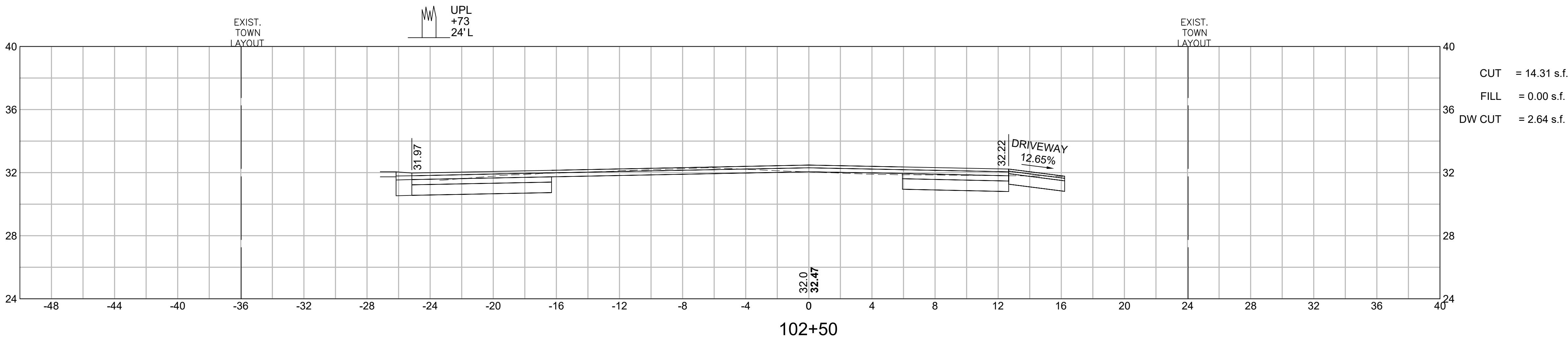
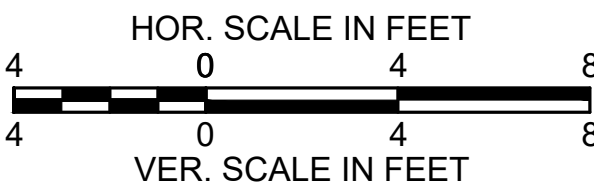
CROSS SECTIONS
POLPIS ROAD



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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PROJECT FILE NO.		613129	

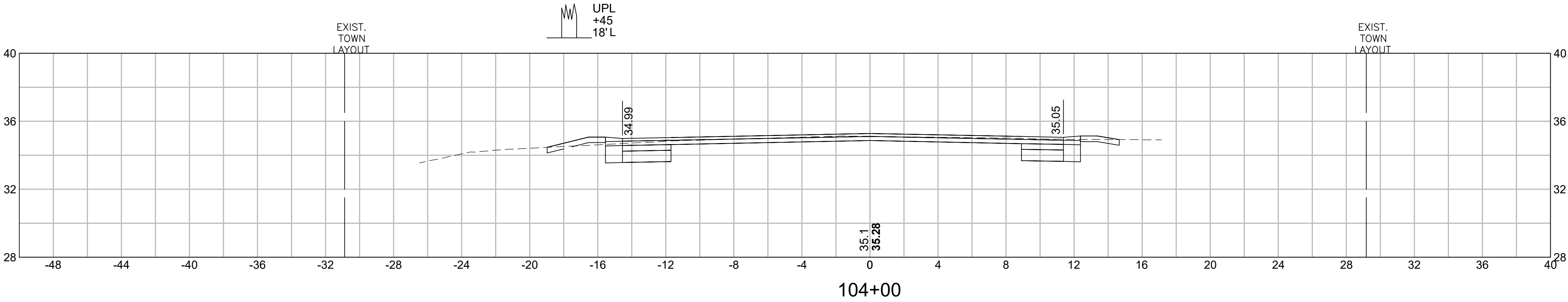
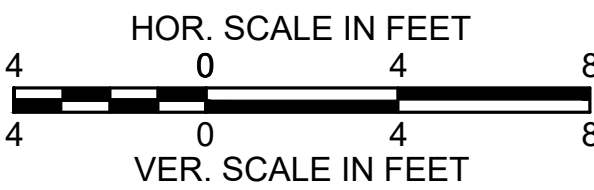
CROSS SECTIONS
POLPIS ROAD



NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

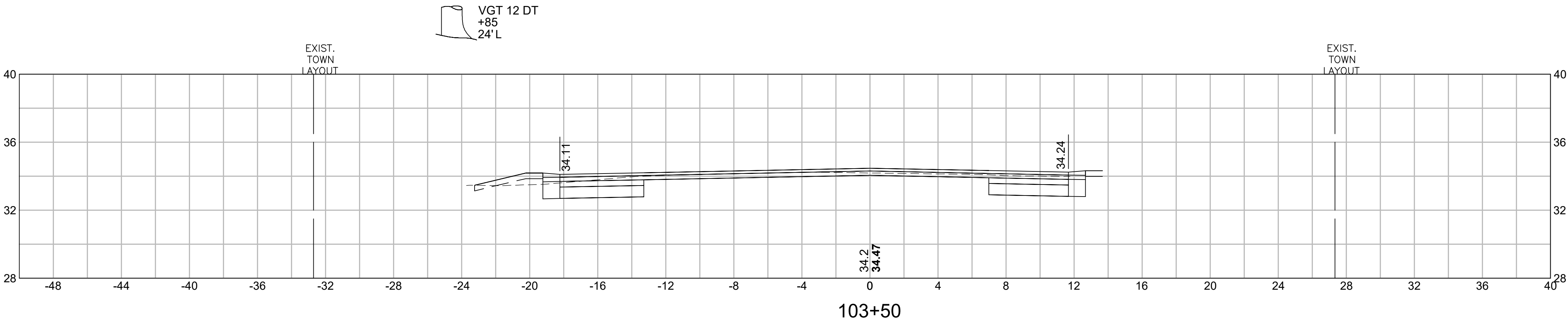
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PROJECT FILE NO.		613129	

CROSS SECTIONS
POLPIS ROAD



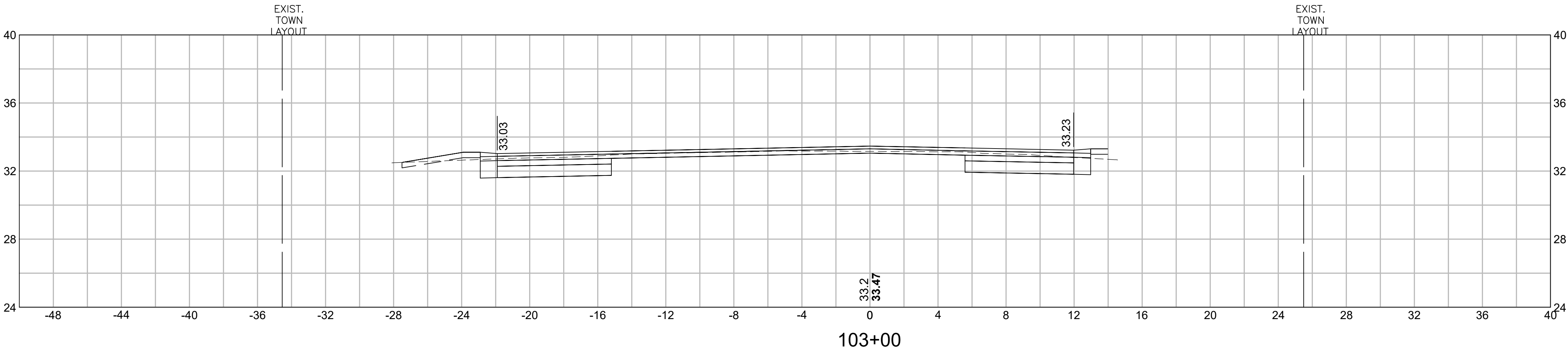
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CUT = 11.88 s.f.

FILL = 0.67 s.f.



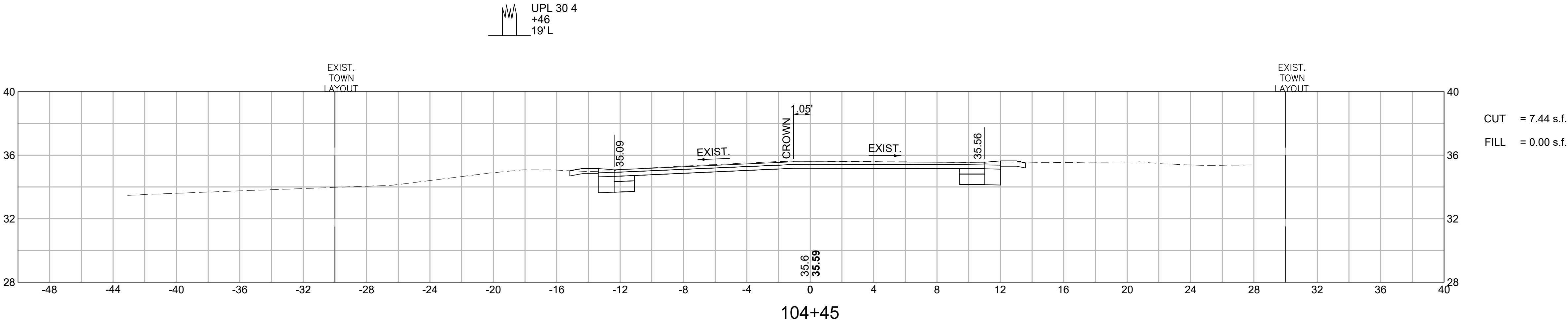
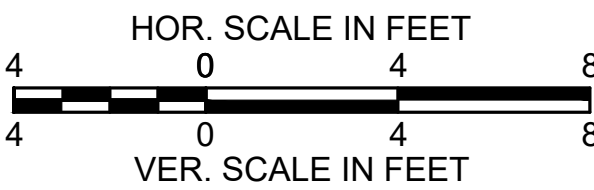
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FILL = 0.46 s.f.

NANTUCKET
MILESTONE ROAD AT POLPIS ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	48
PROJECT FILE NO.		613129	

CROSS SECTIONS
POLPIS ROAD



Category	Goal	Description	Priority	Key Dates	Previous Status	Current Status
Grants	MHC Grant for local survey plan	Apply for MHC grant to continue survey work for fish lots and Brant Point – Phase III work has begun Holly submitted FY 24 on 2/5/24	High	1/19/2024		
Grants	Funding programs	Advocating for expansion of the historic tax credits program Reach out to Preservation Mass and other communities	Medium	3/15/2024		
Grants	CPC Grant for local Structures	Support the historic preservation of Main Street – first apply for CPC funds, then federal/state funds Presented on 10/31 and will be at ATM	Medium	5/15/2024		
Grants	Sewer Force Main	Support Winter Street cobblestone project – neighbors want to put back on Steps Lane; David Gray will keep Holly informed	Medium	3/15/2024		
Grants	NPS Grants	Explore the possibility of utilizing NPS funds for local projects – Maritime Heritage grant, MPPF, America’s Heritage, Paul Bruhn, Reuse BD	Medium	12/31/2024		
CLG	Governance	Set-up meeting for members of CLG (HDC) to complete requirements to maintain the status – Will schedule demo session for spring 24	High	3/31/2024		
CLG	Tax Credits	Review any Historic Tax Credit Applications – 89 Easton St letter sent	Medium	1/31/2024		
CLG	Education	Summarize <i>Building with Nantucket in Mind</i> - create a short video with samples and post on website Recommend work with Town	Medium	5/31/2024		
Education	NHC/CLG education	Continuing education for commissioners from MHC – Conflict of Interest training on 3/28/24, CLG webinar on 4/9/24, MA Deconstruction Workgroup 4/24/24	Low	4/24/2024		
Education	Community education	Partner with Egan Maritime to educate the public about the recent shipwreck discovery – MHC just announced a new maritime education grant program matching NPS program	Medium	5/31/2024		
Education	Workshop	Propose a historic structure/disaster resiliency/conservation workshop with NHA/NPT – Planning underway – proposed timing is by 3/31	Medium	3/31/2024		
Engagement	Engage peer organizations	Ongoing collaboration with our private cohorts (NPT, PIN, Sconset Trust, NHA, etc.) and reach out to minority groups	Medium	Ongoing		

 = on track

 = with risk

 = Past due

 = Not started

 = Complete

Nantucket Historical Commission

January 19, 2024 Meeting
10AM
131 Pleasant Street, Nantucket

Attendees:

Holly Backus
George Butterworth
Rita Carr
Mary Bergman
Abby De Molina – online
Mickey Rowland – online

Angus MacLeod – online
Clement Durkes – online
Tom Montgomery – online
Brian Lever, Epsilon – online
Joe Paul, BPC – online
William Murphy – online
Hillary Rayport – online

Agenda

- Public Comment
- Staff Update
 - Demo delay update *Holly will be presenting on Jan 24, 2024.*
 - NAPC review – February 21 presentation ***Holly will share the presentation once she receives it.***
- Historic Tax Credit support letter request – 89 Easton Street *Brian Lever from Epsilon presented the project. Purchased by William Murphy and will use as a residence, returning to original use. He presented the property and discussed its use, as he owns the neighboring property. Will do seasonal rentals. HDC has approved and should be issuing a historic designation letter as well. Hardscape plan is next piece to be approved by HDC. Holly will request latest photos to be added to the survey. **Motion to write a letter of support by Rita, seconded by Clement. Unanimously approved.***
- Ongoing survey work
 - FY23 update on RFQ responses *PAL did not pursue due to lack of staffing and MHC will give direction on how to refine RFQ.*
 - Narrow down properties list *Holly requested review and separation of properties we know have been altered.*
 - Application for FY24 – pre-application accepted to move forward *Commercial downtown, waterfront North, and flanking Centre Street. Application is due Feb 5, 2024. **Holly will create a spreadsheet like the FY2023 one and will circulate to the commission.***
- CPC Submitted projects update *Next step is Annual Town Meeting 2024*
- Nantucket Offshore Wind Community Fund – Application Deadline January 31, 2024 *HDC solar video has support separate from these funds, as well as cemetery commission so we could team up with the on NCTV. Could survey funds be for new town-owned resources (Ex. Star of the Sea) – current and future. More rounds to come – next year. **Holly will reach out to Florencia and loop in Rita.***
- NP&EDC – representation for historic preservation *Abby mentioned she put her name in for the at-large seat. Discussion about the NP&EDC and its function and we can advocate for a voting member permanently. **Motion by Rita to write a letter to the***

NP&EDC advocating for a permanent spot on the commission, second by Clement. Unanimously approved.

- NHC Goals ***Abby reviewed the goals with commission and will circulate with the minutes.***
- Approval of Minutes – Sept. 15, 2023, Nov. 17, 2023, and Dec. 15, 2023 meetings ***Motion by Clement to approve the minutes, second by Rita. Unanimously approved.***
- Other Business

Meeting adjourned at 11:53PM Motion to adjourn by Tom, second by Clement. Passed unanimously.

NANTUCKET HISTORICAL COMMISSION

The Nantucket Historical Commission is responsible for preservation planning and advocating for the protection of historic resources on Nantucket. The commission meets monthly on the third Friday of the month at 10 AM.

For the fiscal year ended June 30, 2023, the NHC continued work in our main areas of responsibility.

Survey and Document Historic Resources

A fundamental responsibility of Historical Commissions across Massachusetts is to survey and document local historic resources. The Nantucket Historical Commission continued an island-wide survey of Historic Resources that began in FY22, and is the first systematic update to Nantucket's surveys since 1989. The survey effort continued to be funded by the Massachusetts Historical Commission and the Town of Nantucket and meets State and Federal best practices for surveys of historic resources.

Survey consultant Public Archaeology Lab (PAL) completed an island-wide Survey Plan and a pilot survey of 100 historic structures in the neighborhood called "The Fish Lots." The Survey Plan was completed and approved by the Commission in December 2022. The plan set forth the areas to be prioritized and the time and funding necessary to complete the island-wide survey.

In March, the Historical Commission applied for and was awarded an additional grant to continue the island-wide survey of Historic Resources. The 2022-2023 survey phase continued the survey of structures in the Fish Lots and began surveying structures in the Brant Point and Cliffside neighborhood. This location was selected because of the large number of historic structures that are under threat from sea level rise and redevelopment. PAL continued on as the consultant. The survey forms will assist the Nantucket Historic District Commission and the general public in understanding, evaluating, and protecting historic resources. In total, the commission reviewed 140 survey forms in FY2023.

The Island Wide Historic Resources Survey is overseen by the Historical Commission and the Town of Nantucket Preservation Planner, Holly Backus, who serves as the survey coordinator and provides support in-kind. Ms. Backus also oversees the incorporation of all completed survey forms (aka "MHC Forms") into the Town Geographic Information System, where they are available to the public as a "Historic Information" data layer. The completed MHC forms are also filed by the MHC in the Massachusetts Cultural Resource Information System (MACRIS), and the island-wide survey plan is available on the NHC website.

Nantucket is eligible to receive state and federal survey grants on an ongoing basis due to Nantucket's participation in the Certified Local Government program and funding for the matching fund portion of the grant supported at our Annual Town Meeting. The NHC is grateful to the Town of Nantucket and the Nantucket Historic District Commission for joining together in partnership in the CLG program, and to Ms. Backus for her careful attention to the island-wide survey and the CLG reporting and compliance duties.

In addition to these survey efforts, the Commission also reviewed and approved survey Form B's completed by the 'Sconset Trust on six historic resources in Siasconset.

Advocate for the Protection of Historic Resources

The second foundational activity of the NHC is to advocate for the protection of Nantucket's National Historic Landmark status. This includes education about history and preservation, reviewing and commenting on federal and state funded projects which affect historic resources, and advocating to other Nantucket boards and commissions and the general public for the protection of historic resources. In the past fiscal year, NHC advocacy projects included:

Community Education

The Commission advocated directly to the community and other Nantucket boards for adoption of preservation-minded warrants at Town Meeting.

The Commission provided comments to Town Administration and other departments regarding historically appropriate street lighting and treatment of utility infrastructure.

Following the dissolution of the Historic District Commission's Advisory Boards in August 2022, the NHC advocated for their reconstitution.

On June 7, 2023, the NHC offered an accredited training program to members of the Nantucket Association of Real Estate Brokers on selling historic homes. This was taught by Holly Backus (Town Preservation Planner), Mary Bergman (Executive Director, Nantucket Preservation Trust), and Abby De Molina (Secretary, NHC) and attended by over 20 real estate professionals. The NHC also participated in a similar training in June 2022.

Project Review

The Commission continued to meet its obligations to review state and federally funded projects, under Section 106 of the National Historic Preservation Act of 1966 and Massachusetts regulation 950 CMR 71.

The NHC continues to be a consulting party to Massachusetts Historical Commission and the federal Bureau of Ocean Energy Management review of offshore wind turbine projects.

Historic Preservation Tax Credits

The Commission issued letters of support for island projects using Historic Preservation Tax Credits and continued to advocate for the use of HTCs on Nantucket.

Advocating for Maintenance of Nantucket Lighthouses

The NHC continued discussions begun in FY22 to raise awareness of the declining condition of Great Point Light and Brant Point Light and advocate for their repair. Great Point Light, built in 1986, is not listed on the National Register of Historic Places due to its age, and is not eligible to be considered a contributing structure to Nantucket's National Historic Landmark District. The NHC confirmed that because the lighthouse is federally owned, nomination for listing on the National Register must be made by the Coast Guard. Preservation Planner Holly Backus was in communication with the Coast Guard's Preservation Officer beginning in November 2022, advocating for attention to be paid to the deterioration of Brant Point Light. Cosmetic repairs to Brant Point Light were completed by the Coast Guard in April 2023.

Supporting Archeological Research on Nantucket

[Something about the shipwreck here?](#)

Increasing Resources for Preservation

Members of the Commission explored the possibility of developing a Revolving Loan Fund which would make small loans to owners of historic properties in need of maintenance and repair.

Respectfully submitted,

Angus MacLeod
Chair