

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF
BEACH ROAD
IN THE TOWN OF
TISBURY
DUKES COUNTY

**TISBURY
BEACH ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	71
PROJECT FILE NO.		607411	

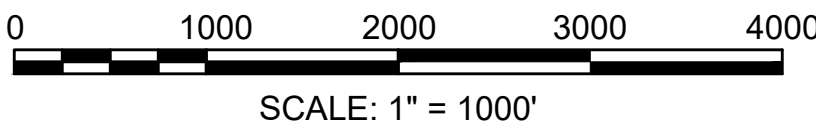
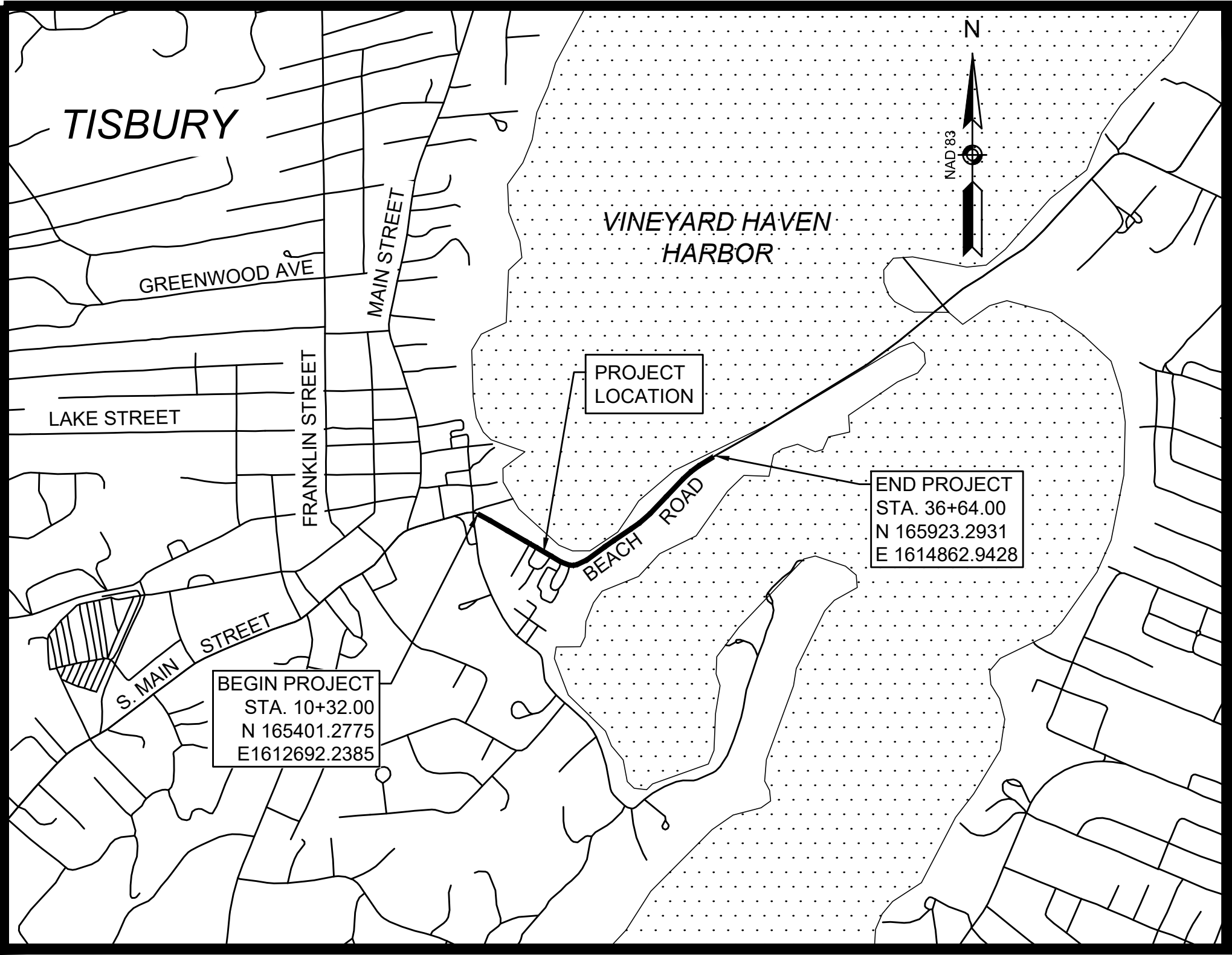
TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE 2016 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, 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, WILL GOVERN.

75% SUBMITTAL

INDEX

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LENGTH OF PROJECT = 2,632 FEET = 0.4985 MILES

DESIGN DESIGNATION (BEACH ROAD)

DESIGN SPEED	30 MPH
ADT (2015)	13,500
ADT (2022)	14,500
K	7.0%
D	55%
T (PEAK HOUR)	3.5%
T (AVERAGE DAY)	3.5%
DHV	1,015
DDHV	560
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

GPI

Greenman-Pedersen, Inc.

Engineers, Architects, Planners, Construction Engineers & Inspectors

181 Ballardvale Street, Suite 202, Wilmington, MA 01887

Tel: (978) 570-2999 Fax: (978) 658-3044

<http://www.gpinet.com>

DATE	DESCRIPTION	REV #

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED: DIVISION ADMINISTRATOR DATE	 RECOMMENDED FOR APPROVAL _____ CHIEF ENGINEER DATE
	APPROVED _____ HIGHWAY ADMINISTRATOR DATE

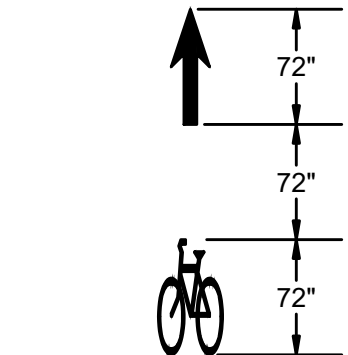
GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		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 OR 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

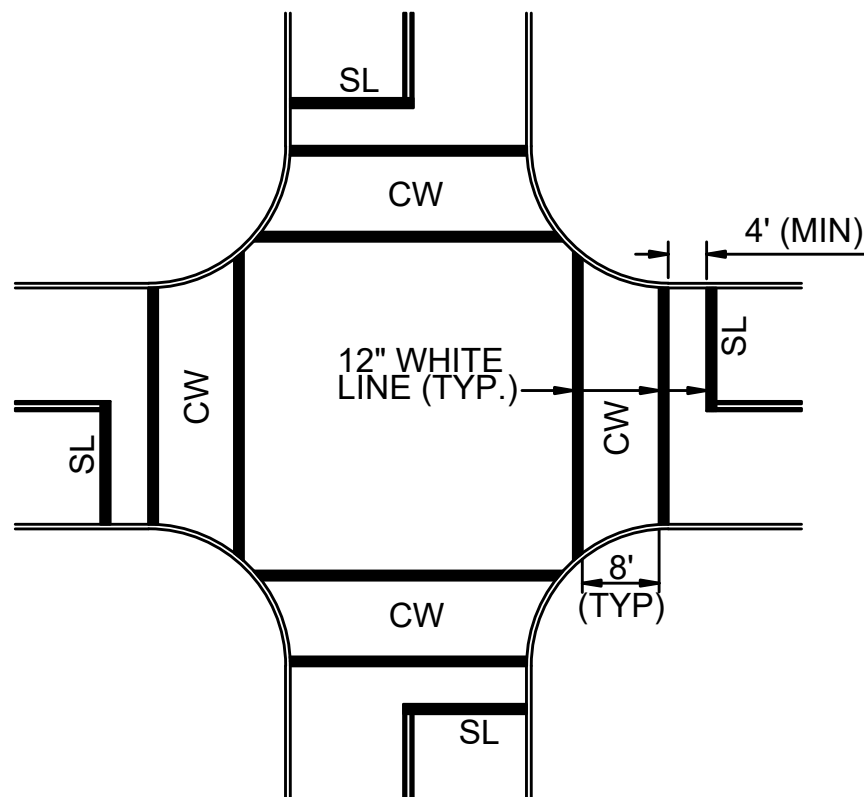
PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

BROKEN LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP.)
DOTTED LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)



BIKE LANE
MARKING DETAIL
NOT TO SCALE



TYPICAL CROSSWALK MARKINGS
NOT TO SCALE

GENERAL NOTES

- TOPOGRAPHICAL INFORMATION WAS PROVIDED BY GREENMAN-PEDERSEN, INC. (978) 570-2977, OCTOBER 2013. VERTICAL DATUM IS BASED ON NAVD88. HORIZONTAL DATUM IS BASED ON NAD83 MASSACHUSETTS STATE PLANE, ISLAND ZONE.
- THE LOCATIONS 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 AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- ALL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT MIX ASPHALT JOINT SEALANT MEETING SPECIAL PROVISION 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.
- 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.
- DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

GENERAL ABBREVIATIONS

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

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	71
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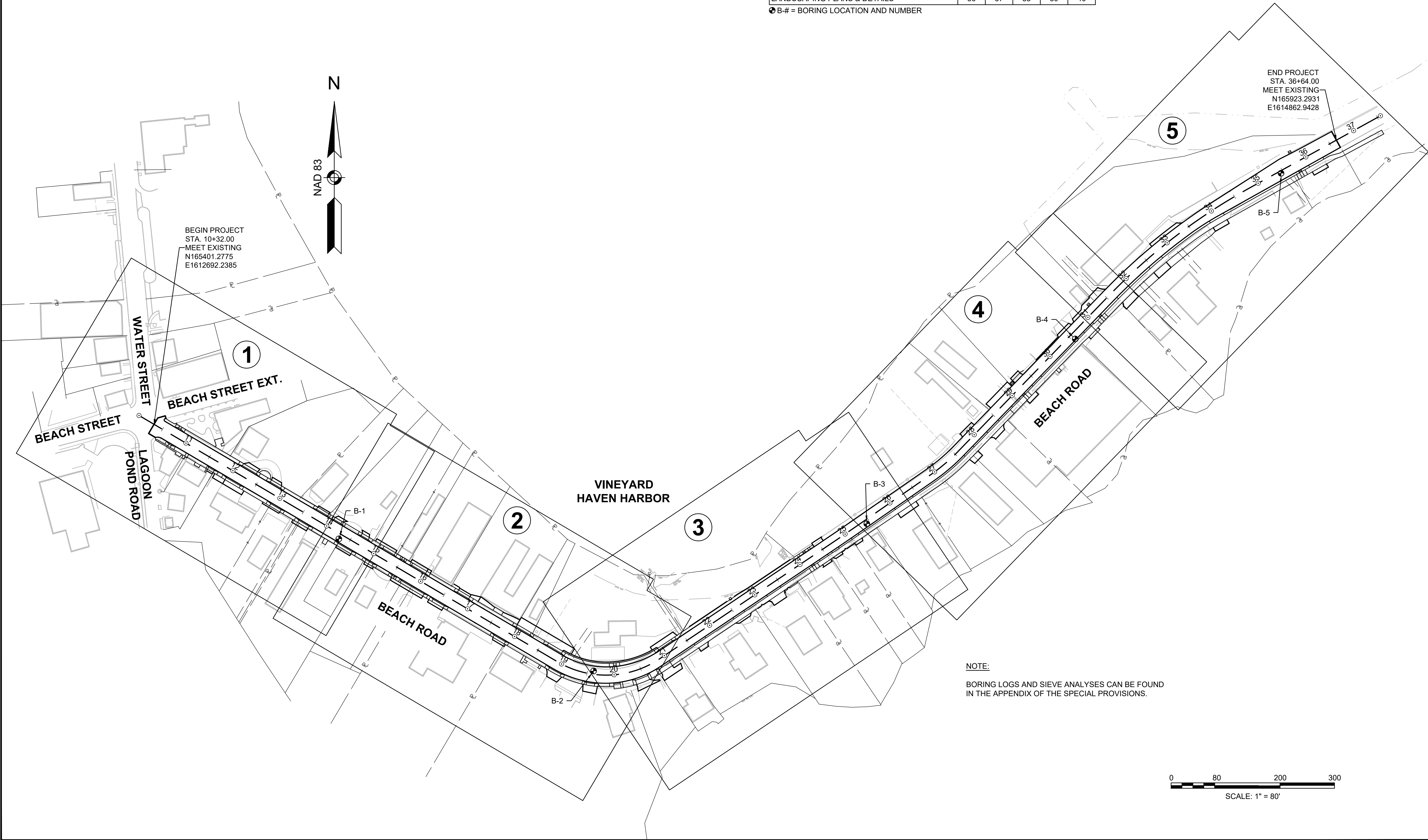
LEGEND & ABBREVIATIONS

SHEET REFERENCE:	1	2	3	4	5
Drawing Title:	Drawing Number:				
CONSTRUCTION PLANS & PROFILES	6	7	8	9	10
CURB TIE & GRADING PLANS	11	12	13	14	15
DRAINAGE & UTILITY PLANS	16	17	18	19	20
TRAFFIC SIGN & PAVEMENT MARKING PLANS	21	22	23	24	25
LIGHTING PLANS	30	31	32	33	34
LANDSCAPING PLANS & DETAILS	36	37	38	39	40

● B-# = BORING LOCATION AND NUMBER

TISBURY BEACH ROAD			
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MA	-	3	71
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KEY PLAN & BORING LOCATIONS



TISBURY
BEACH ROAD

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MA	-	4	71
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TYPICAL SECTIONS

PAVEMENT NOTES

FULL DEPTH HMA CONSTRUCTION

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

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

SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER
8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

HMA DRIVEWAYS AND SHARED USE PATH

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

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

CEMENT CONCRETE SIDEWALK AT DRIVEWAYS & CEMENT CONCRETE DRIVEWAYS

SURFACE COURSE: 6" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

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

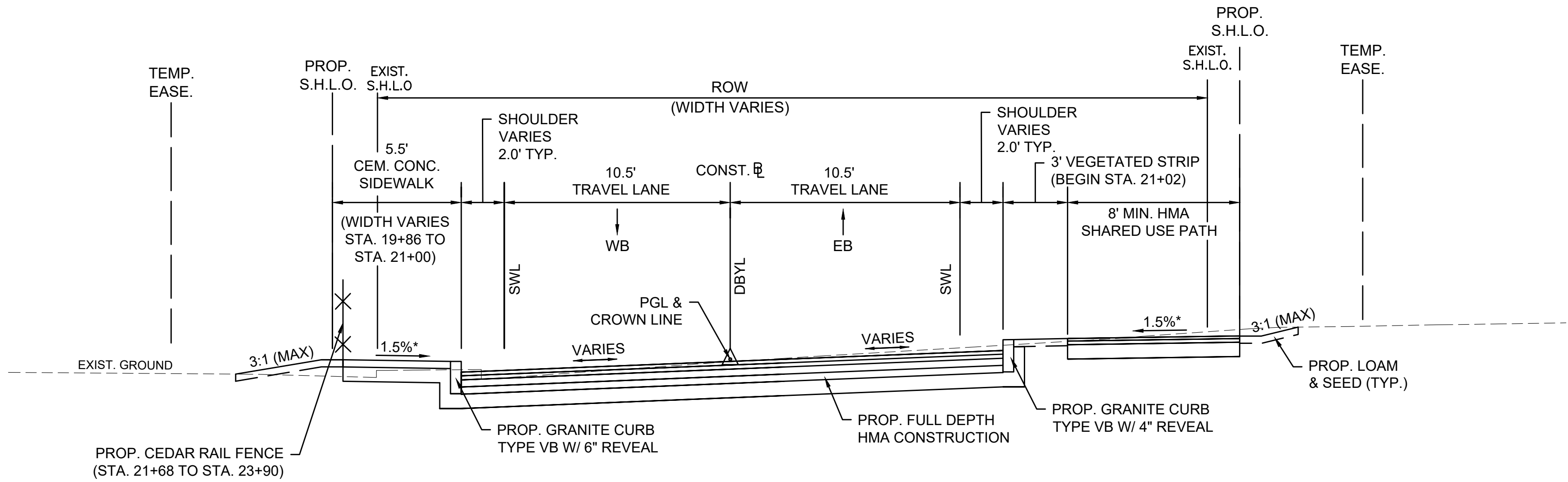
CEMENT CONCRETE SIDEWALK & WHEELCHAIR RAMPS

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

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

GENERAL NOTES:

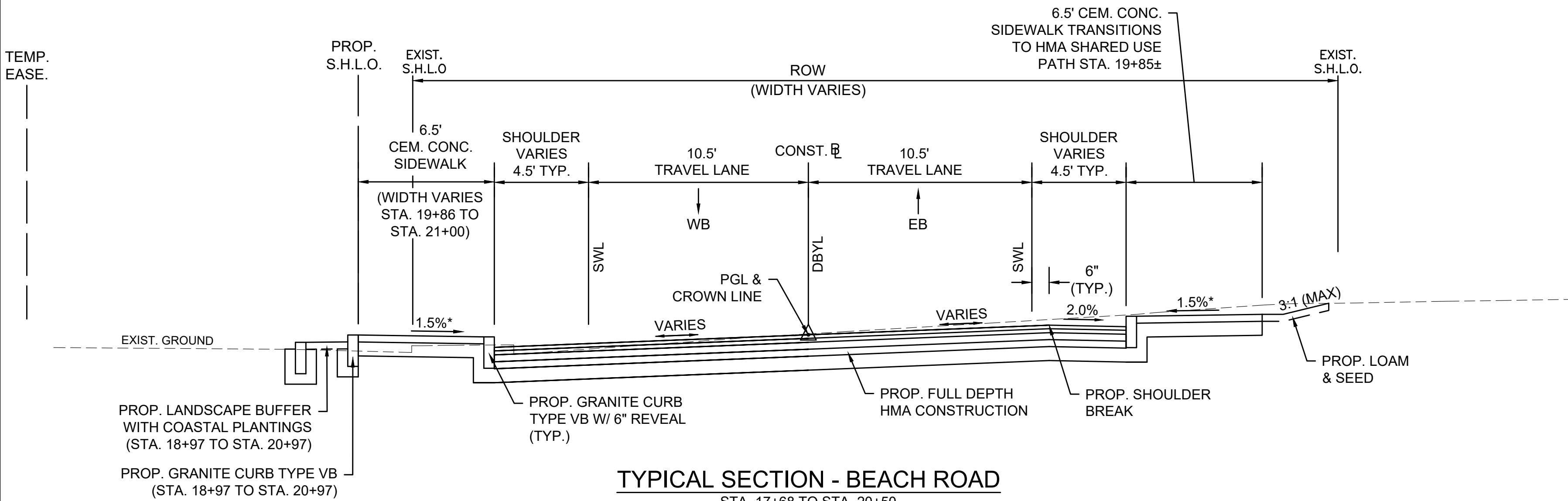
- ALL SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% (0.015 FT/FT). TOLERANCE FOR CONSTRUCTION SHALL BE $\pm 0.50\%$. IN NO CASE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0% (0.02 FT/FT). SIDEWALKS SHALL HAVE A MINIMUM CLEAR PATH OF 36" FREE OF OBSTRUCTION (UTILITY POLES, HYDRANTS, ETC.).
- ASPHALT EMULSION FOR TACK COAT (R5-1) SHALL BE APPLIED AT THE RATE OF 0.05 GALLONS PER SQUARE YARD OVER TIGHT PAVED SURFACES PER SECTION 450.53.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT IT IS ANTICIPATED THAT THE EXISTING SUBBASE MAY BE SUITABLE FOR REUSE AS GRAVEL BORROW MATERIAL. THE EXISTING SUBBASE MATERIAL WILL BE TESTED BY MASSDOT. IF THE TESTING REVEALS THAT THE EXISTING SUBBASE MATERIAL IS SUITABLE FOR REUSE AS GRAVEL BORROW FOR FULL DEPTH CONSTRUCTION AREAS, IT SHALL BE RETAINED AND THE QUANTITIES FOR EXCAVATION, DENSE GRADED CRUSHED STONE AND GRAVEL BORROW SHALL BE ADJUSTED ACCORDINGLY.



TYPICAL SECTION - BEACH ROAD

STA. 20+50 TO STA. 22+14
SCALE: 1" = 4'

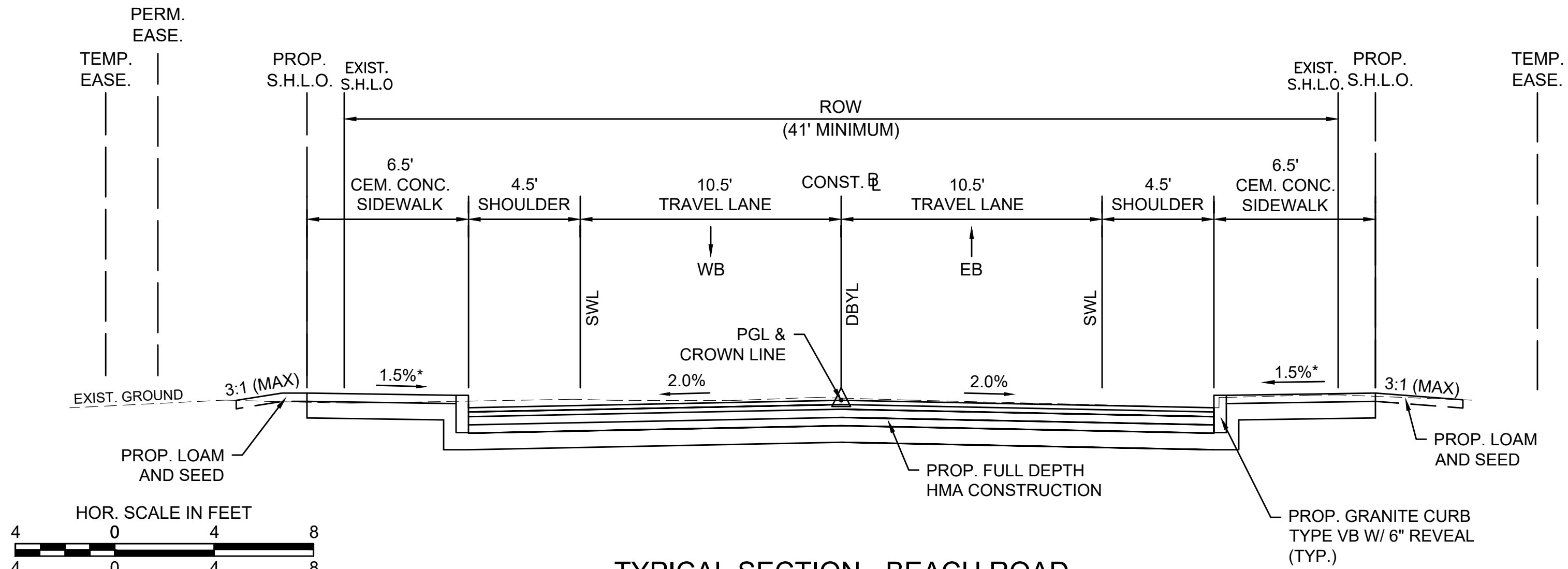
* 0.5% $\pm$ TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - BEACH ROAD

STA. 17+68 TO STA. 20+50
SCALE: 1" = 4'

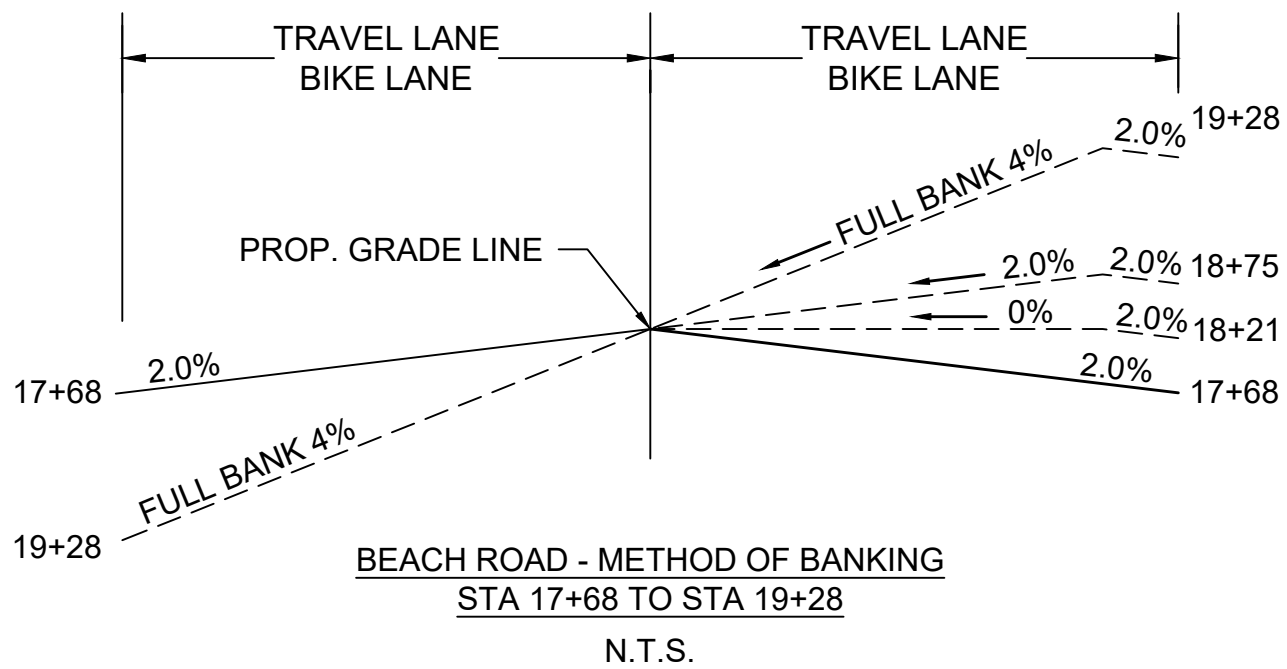
* 0.5% $\pm$ TOLERANCE FOR CONSTRUCTION



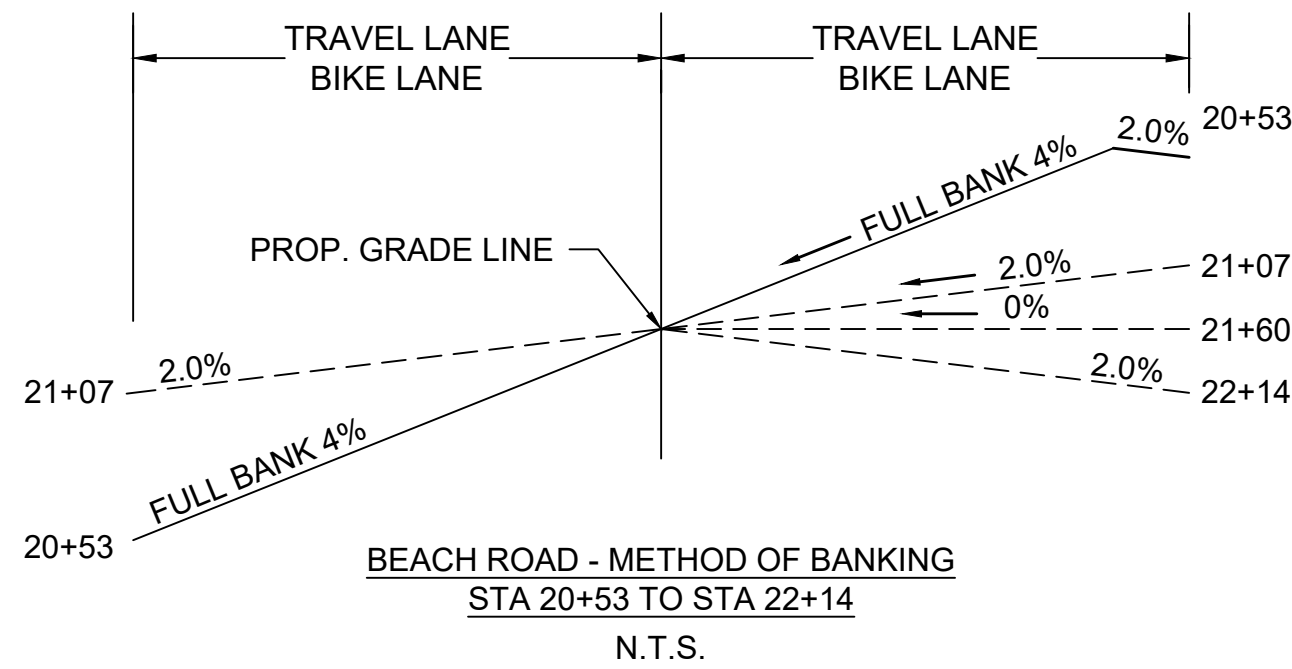
TYPICAL SECTION - BEACH ROAD

STA. 10+32 TO STA. 17+68
SCALE: 1" = 4'

* 0.5% $\pm$ TOLERANCE FOR CONSTRUCTION



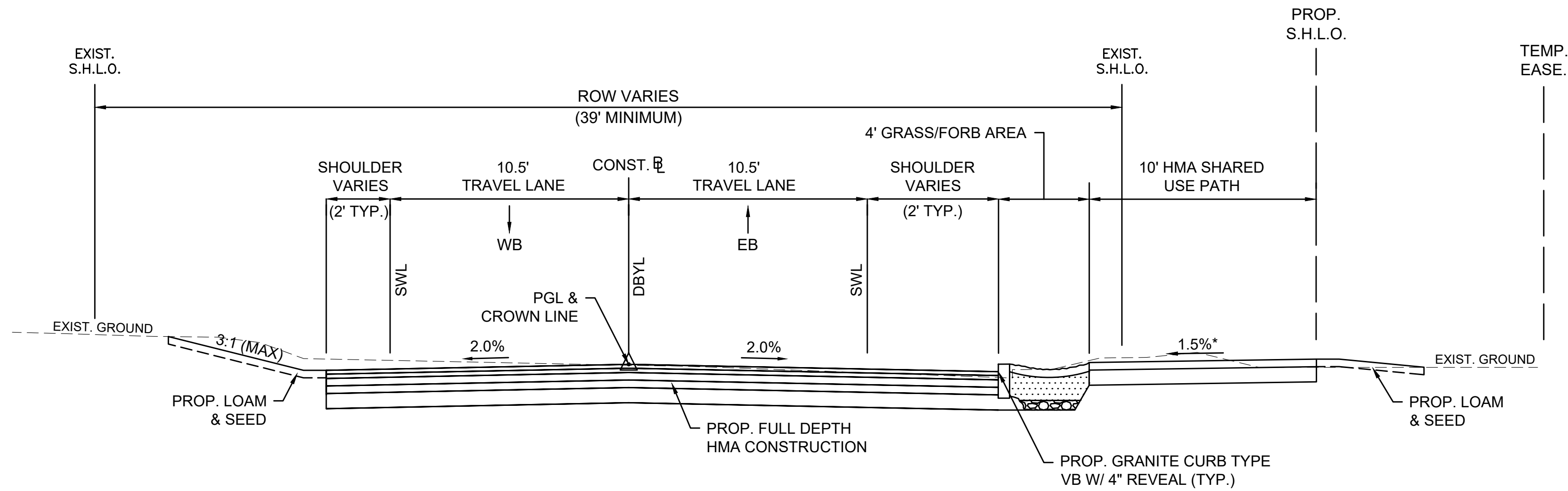
BEACH ROAD - METHOD OF BANKING
STA 17+68 TO STA 19+28
N.T.S.



BEACH ROAD - METHOD OF BANKING
STA 20+53 TO STA 22+14
N.T.S.

TISBURY BEACH ROAD			
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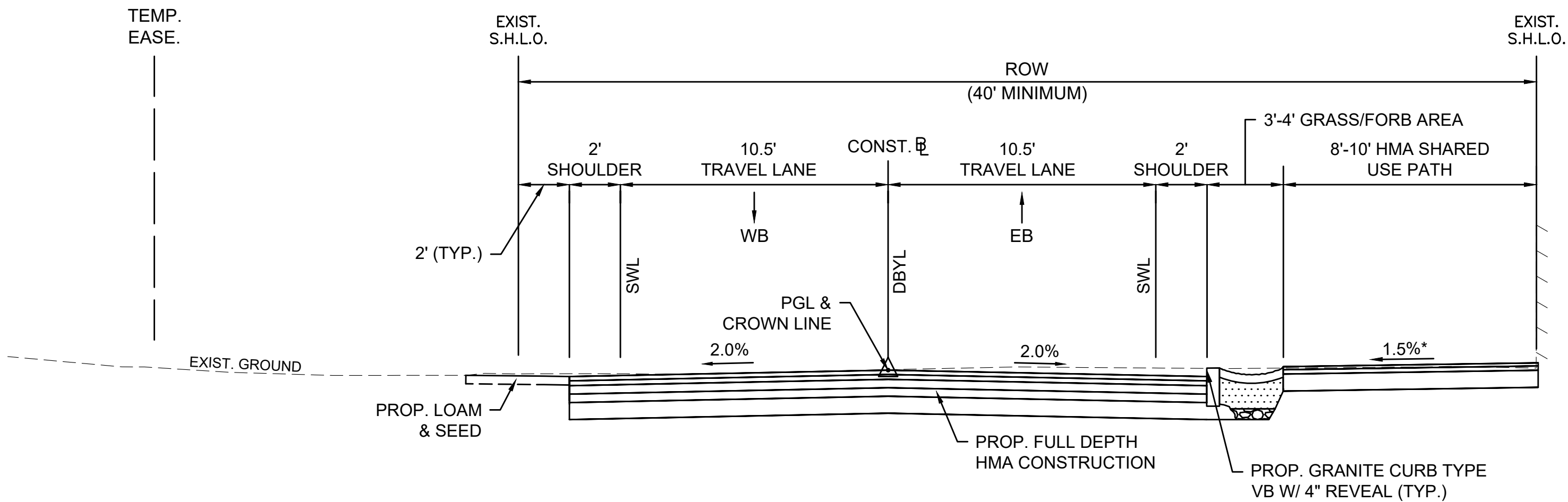
TYPICAL SECTIONS



TYPICAL SECTION - BEACH ROAD

STA. 31+00 TO STA. 36+64
SCALE: 1" = 4'

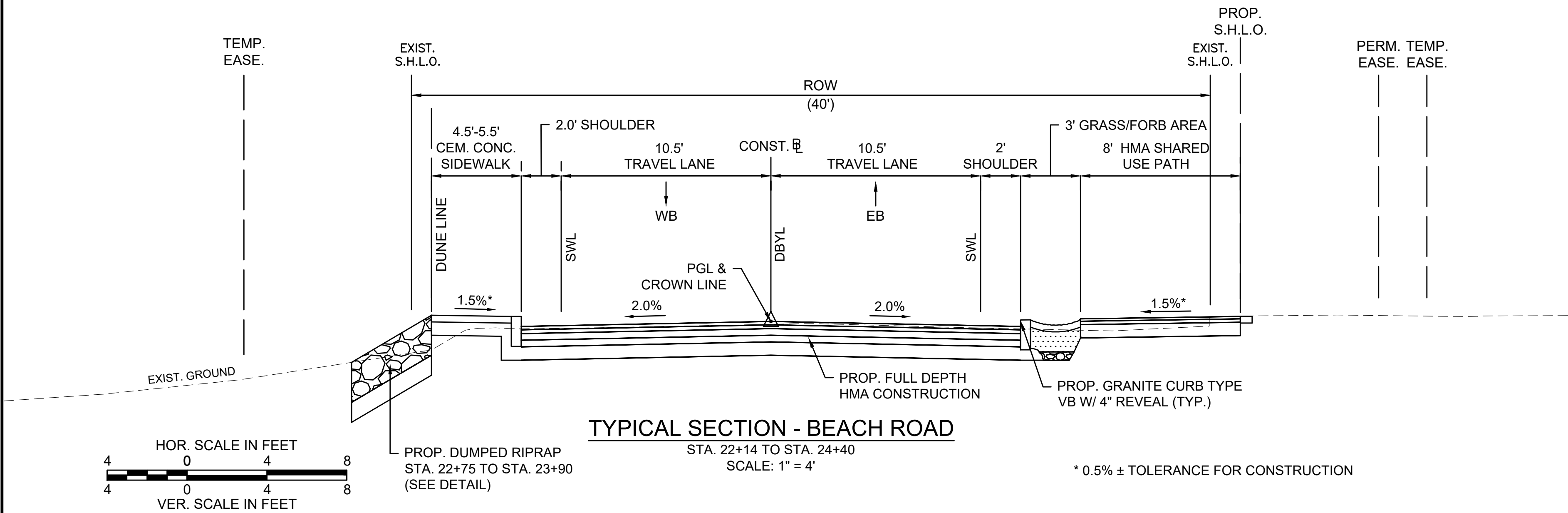
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - BEACH ROAD

STA. 24+40 TO STA. 31+00
SCALE: 1" = 4'

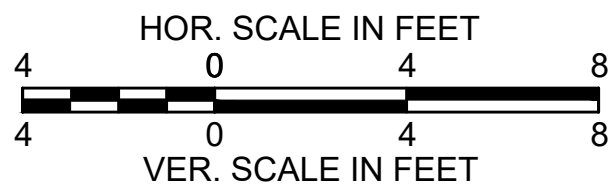
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - BEACH ROAD

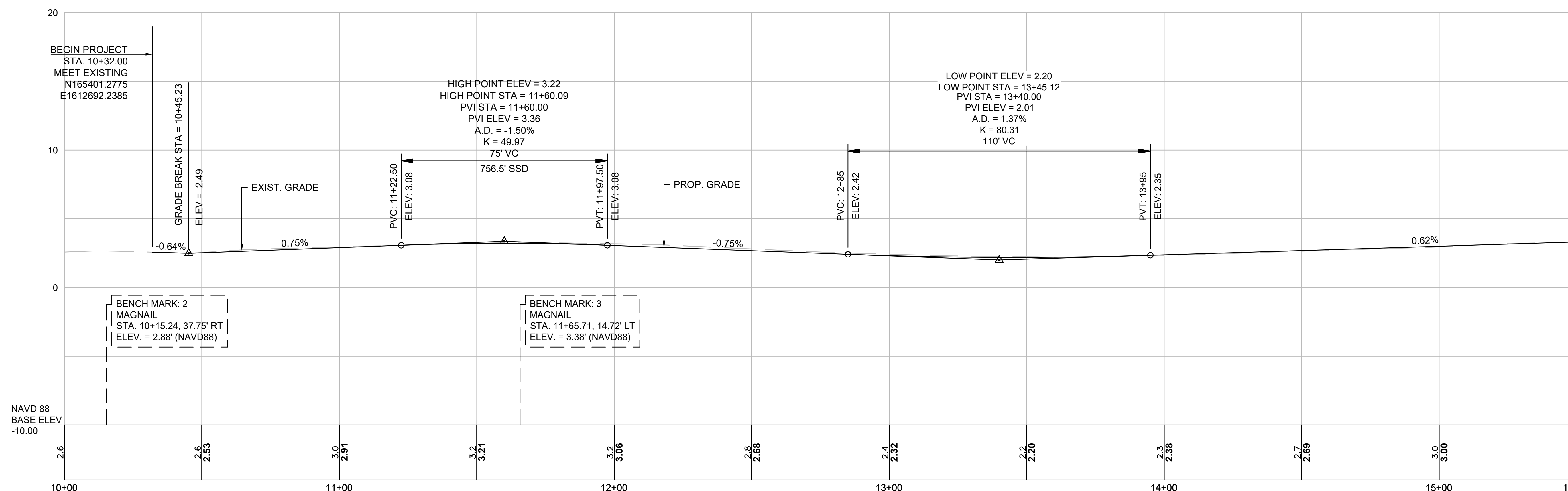
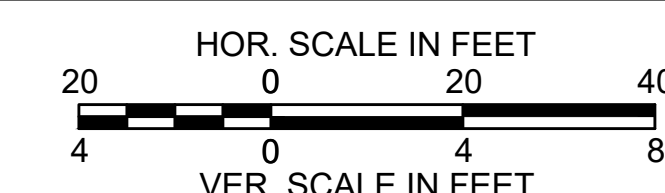
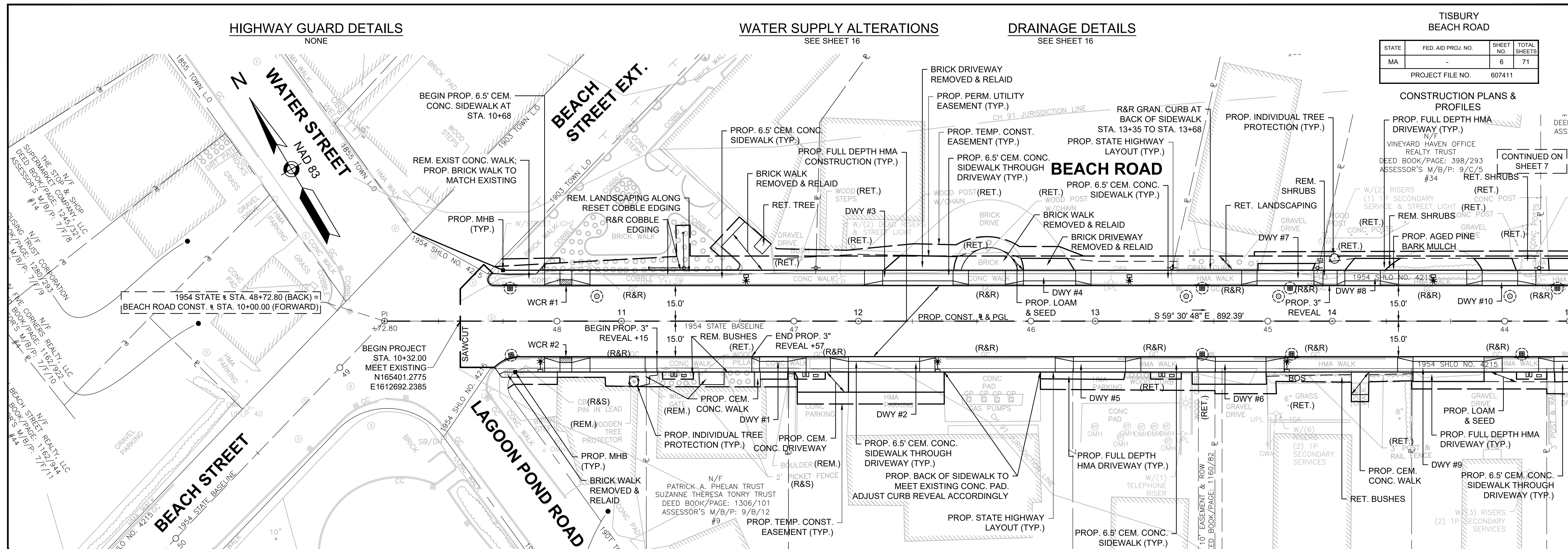
STA. 22+75 TO STA. 23+90
SCALE: 1" = 4'

* 0.5% ± TOLERANCE FOR CONSTRUCTION



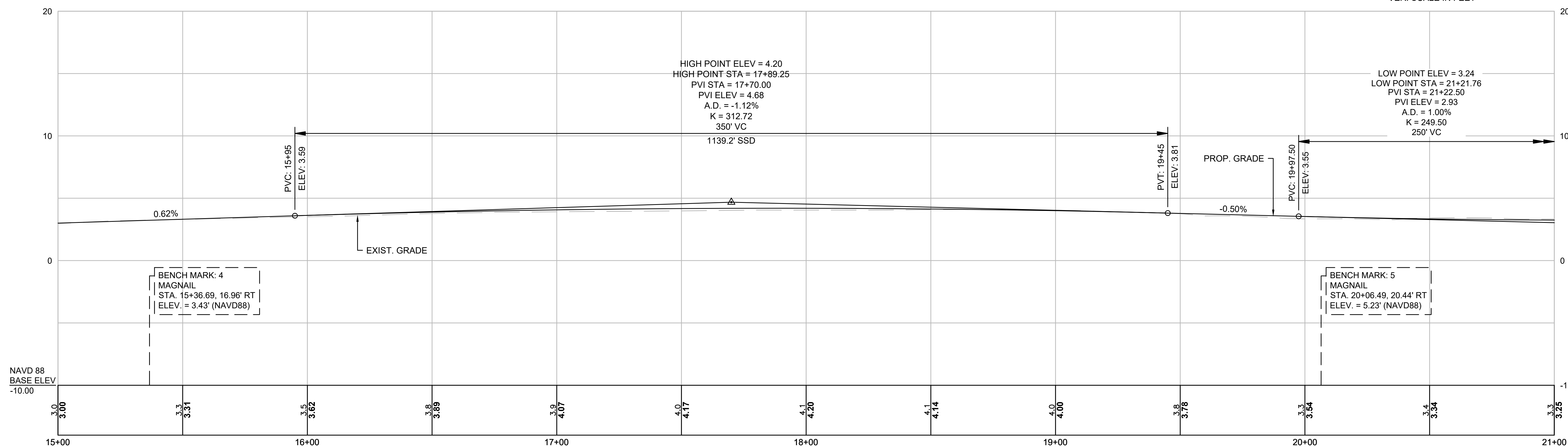
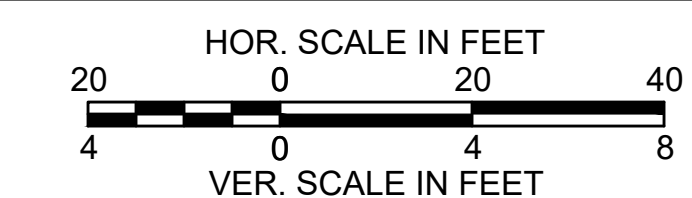
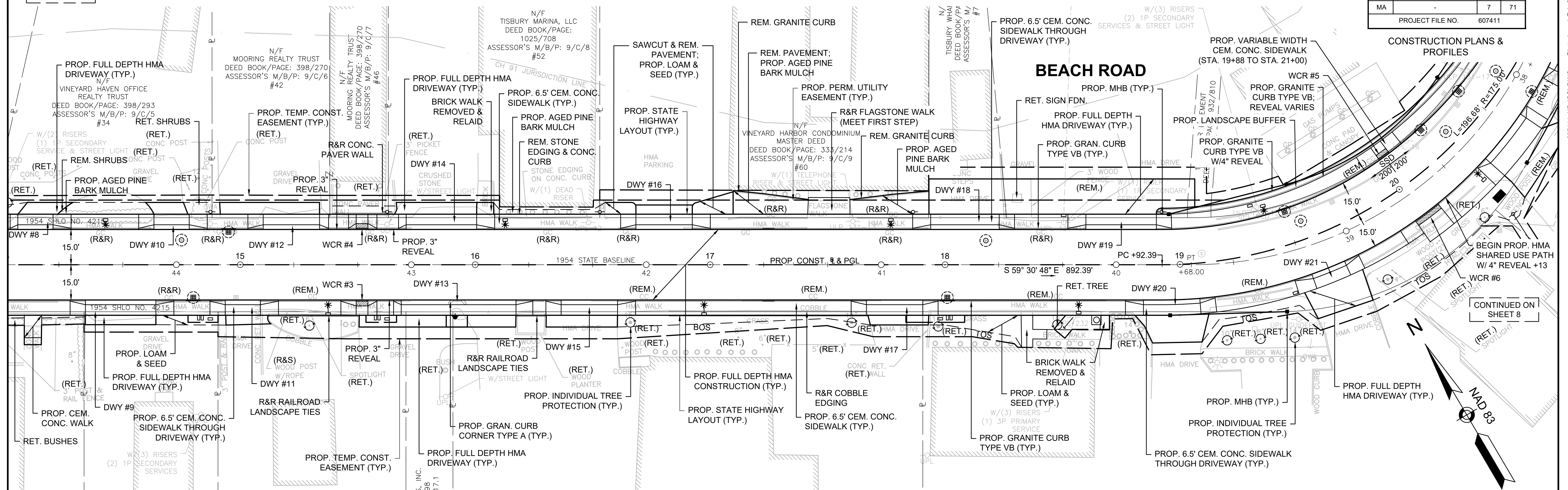
PROP. FULL DEPTH HMA DRIVEWAY (TYP.)
VINEYARD HAVEN OFFICE
REALTY TRUST
DEED BOOK/PAGE: 398/293
ASSESSOR'S M/B/P: 9/C/5
#34
RET. SHRUBS
(RET.)
(2) RISERS
1ST SECONDARY CONC POST
DRIVE & STREET LIGHT (RET.)
RET. SHRUBS CONC POST
(RET.)
PROP. AGED PINE
BARK MULCH
CONC POST
(RET.)

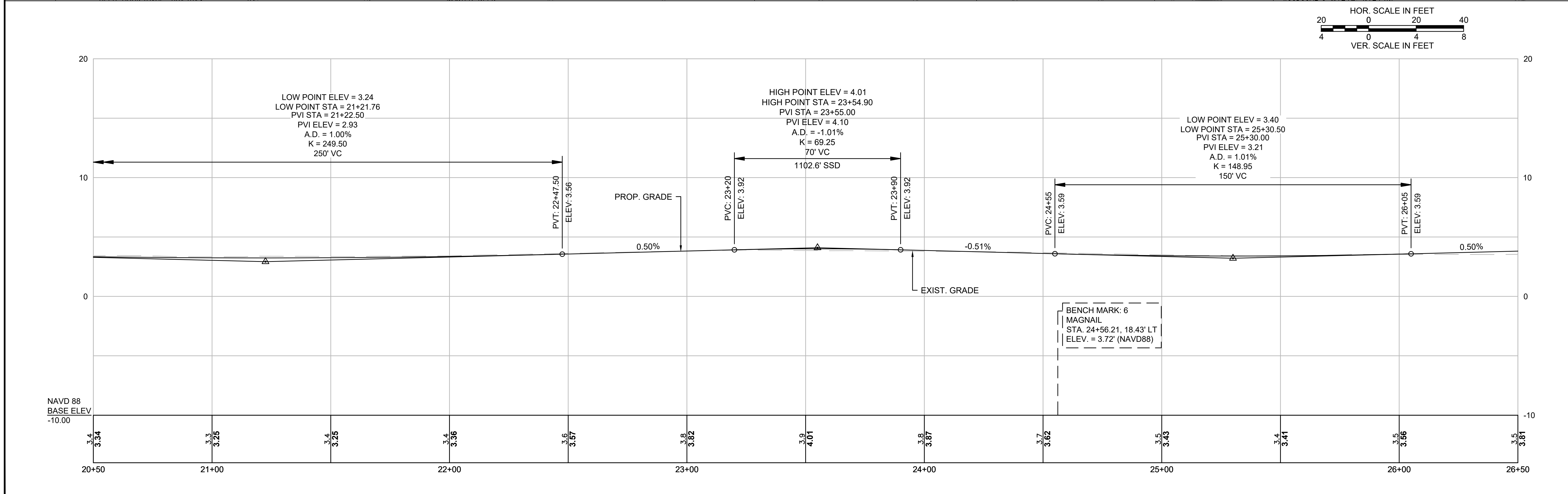
307411 HD (CO) DWG Plotted on 1-Feb-2017 10:57 AM



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CONSTRUCTION PL PROFILES

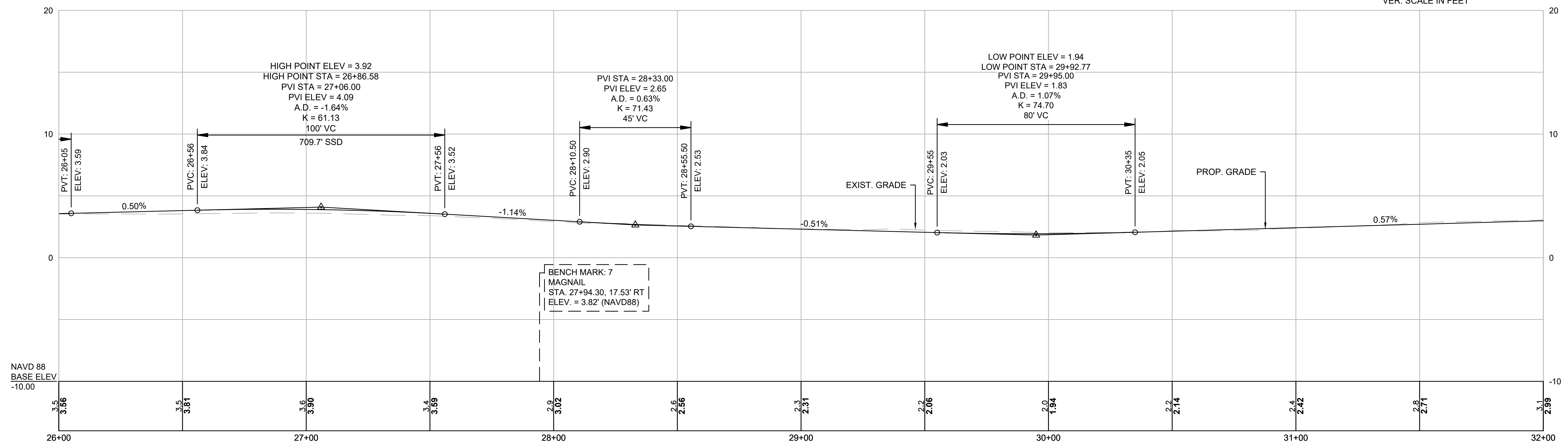
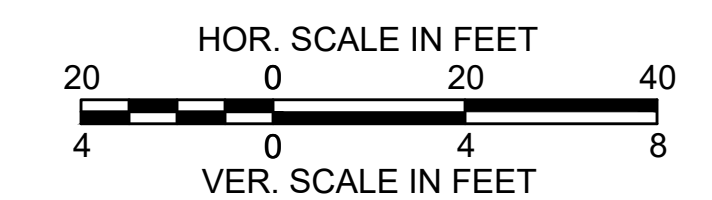
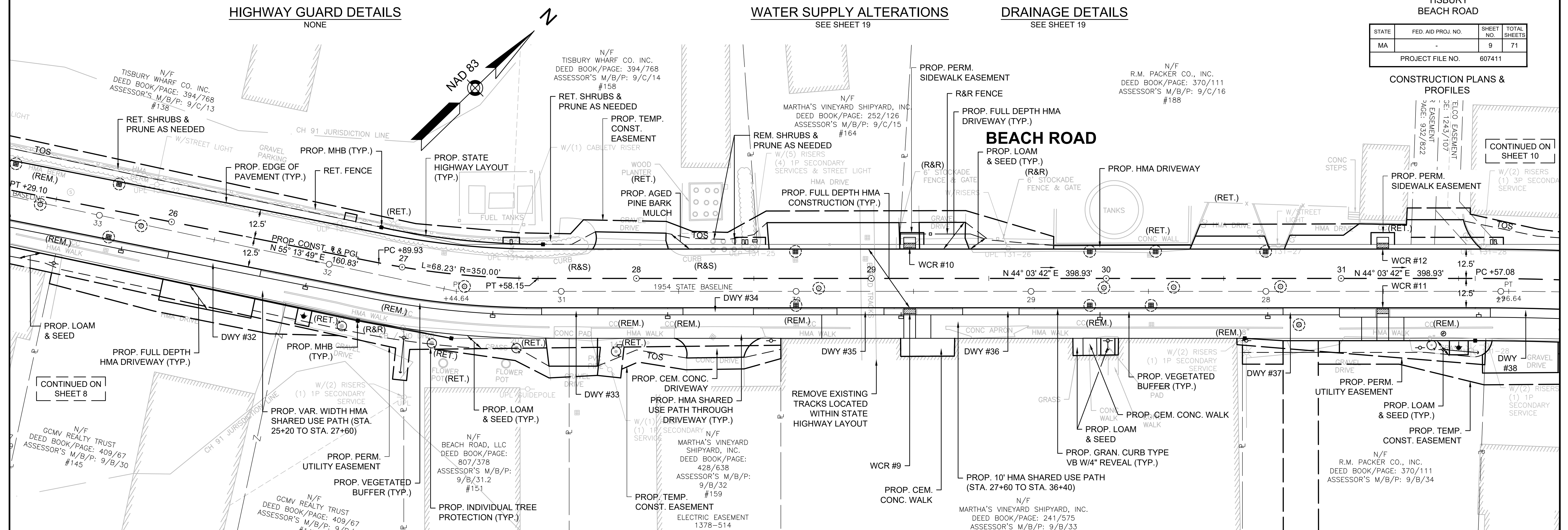




TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	71
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CONTINUED ON
SHEET 10



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	71
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS

BEACH ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	165417.5123	1612664.6626		S59°30'48"E 892.39'	18+92.39	164964.7702	1613433.6753

CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C1	134°03'08"	2.50	5.85
C2	45°16'26"	15.00	11.85

N/F
BOCH PARK, INC.
DEED BOOK/PAGE: 767/523
ASSESSOR'S M/B/P: 9/C/3
#20

N/F
HARBOR FACILITIES REALTY TRUST 1987
DEED BOOK/PAGE: 491/650
ASSESSOR'S M/B/P: 9/C/4
#30

N/F
VINEYARD HAVEN OFFICE
REALTY TRUST
DEED BOOK/PAGE: 398/293
ASSESSOR'S M/B/P: 9/C/5
#34

CONTINUED ON
SHEET 12

BEACH ROAD

WATER STREET

WATER STREET

BEACH STREET EXT.

BEACH STREET

LAGOON POND ROAD

BEGIN PROJECT
STA. 10+32.00
MEET EXISTING
N165401.2775
E1612692.2385

1954 STATE # STA. 48+72.80 (BACK) =
BEACH ROAD CONST. # STA. 10+00.00 (FORWARD)

TRAV #2
MAGNAIL
N: 165377.1826
E: 1612658.7646
ELEV: 2.81

TRAV #3
MAGNAIL
N: 165347.8674
E: 1612815.9260
ELEV: 3.38

N/F
PATRICK A. PHELAN TRUST
SUZANNE THERESA TONRY TRUST
DEED BOOK/PAGE: 1306/101
ASSESSOR'S M/B/P: 9/B/12
#9

N/F
LENJO FAMILY LLC.
DEED BOOK/PAGE: 1327/220
ASSESSOR'S M/B/P: 9/B/13
#19

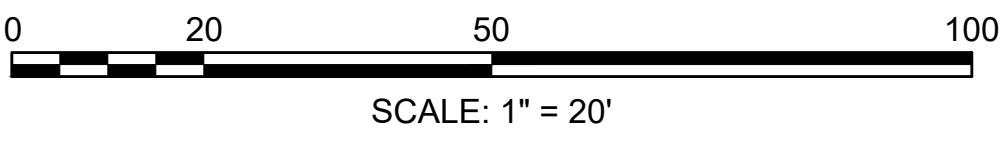
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LENJO FAMILY LLC.
DEED BOOK/PAGE: 1327/220
ASSESSOR'S M/B/P: 9/B/14
#25

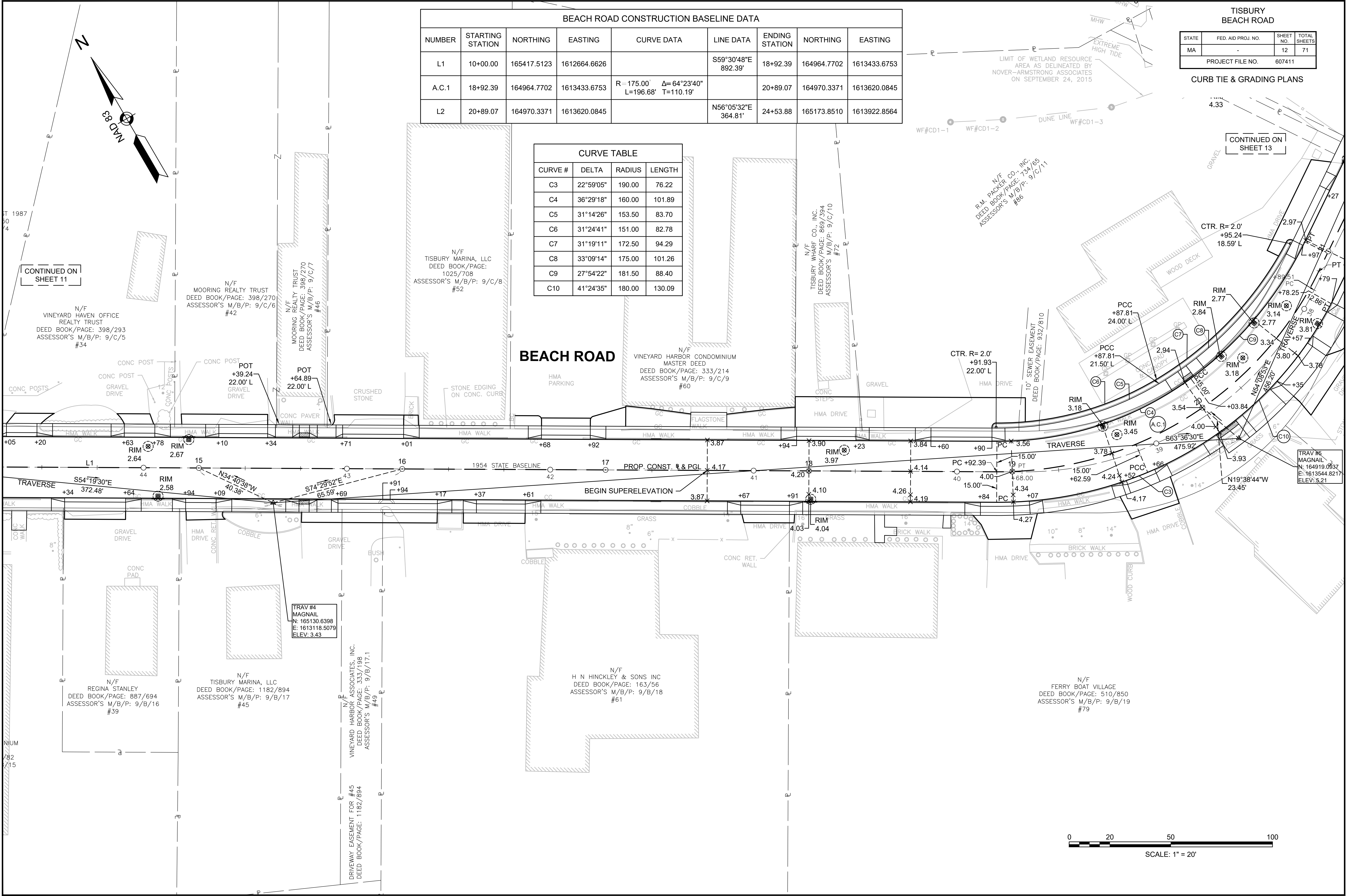
N/F
31 BEACH ROAD CONDOMINIUM
MASTER DEED
DEED BOOK/PAGE: 1160/82
ASSESSOR'S M/B/P: 9/B/15
#31

N/F
REGINA STANLEY
DEED BOOK/PAGE: 887/694
ASSESSOR'S M/B/P: 9/B/16
#39

N/F
UNITED STATES POSTAL SERVICE
DEED BOOK/PAGE: 21/345
ASSESSOR'S M/B/P: 9/A/12
#9

N/F
4 LAGOON POND ROAD LLC
DEED BOOK/PAGE: 1371/1016
ASSESSOR'S M/B/P: 9/B/11
#86



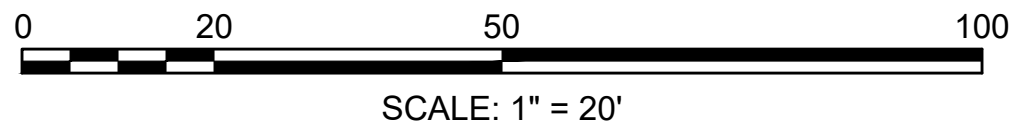


CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C4	36°29'18"	160.00	101.89
C5	31°14'26"	153.50	83.70
C6	31°24'41"	151.00	82.78
C7	31°19'11"	172.50	94.29
C8	33°09'14"	175.00	101.26
C9	27°54'22"	181.50	88.40
C10	41°24'35"	180.00	130.09
C11	0°51'43"	4987.50	75.03
C12	0°51'43"	5012.50	75.41

BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
A.C.1	18+92.39	164964.7702	1613433.6753	R = 175.00' Δ= 64°23'40" L=196.68' T= 110.19'		20+89.07	164970.3371	1613620.0845
L2	20+89.07	164970.3371	1613620.0845		N56°05'32"E 364.81'	24+53.88	165173.8510	1613922.8564
A.C.2	24+53.88	165173.8510	1613922.8564	R = 5000.00' Δ= 0°51'43" L=75.22' T=37.61'		25+29.10	165216.2801	1613984.9648
L3	25+29.10	165216.2801	1613984.9648		N55°13'49"E 160.83'	26+89.93	165307.9964	1614117.0763

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	71
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS



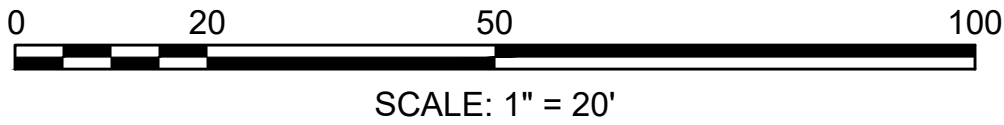
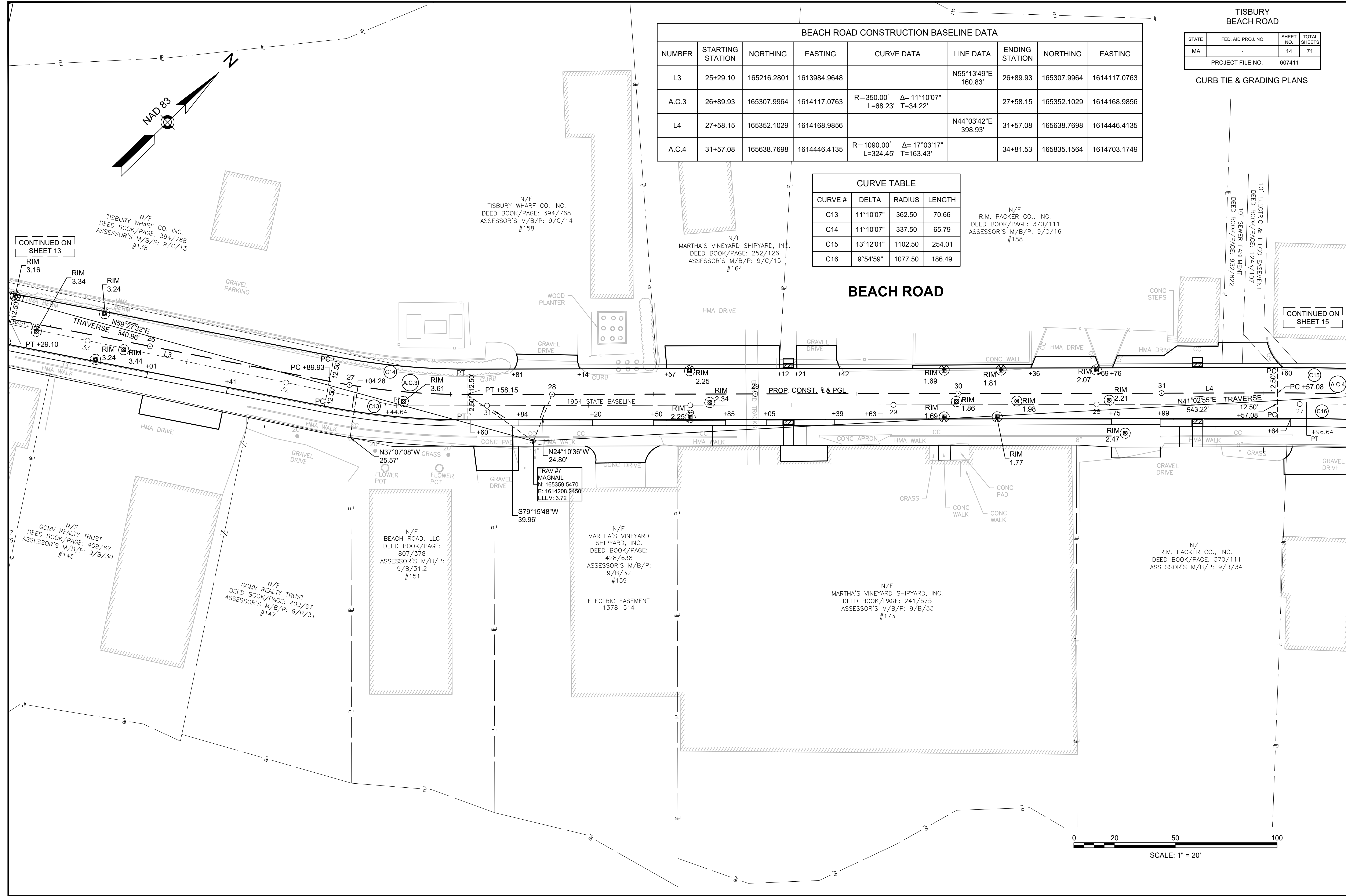
BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	25+29.10	165216.2801	1613984.9648		N55°13'49"E 160.83'	26+89.93	165307.9964	1614117.0763
A.C.3	26+89.93	165307.9964	1614117.0763	R=350.00' Δ=11°10'07" L=68.23' T=34.22'		27+58.15	165352.1029	1614168.9856
L4	27+58.15	165352.1029	1614168.9856		N44°03'42"E 398.93'	31+57.08	165638.7698	1614446.4135
A.C.4	31+57.08	165638.7698	1614446.4135	R=1090.00' Δ=17°03'17" L=324.45' T=163.43'		34+81.53	165835.1564	1614703.1749

**TISBURY
BEACH ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	71
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C13	11°10'07"	362.50	70.66
C14	11°10'07"	337.50	65.79
C15	13°12'01"	1102.50	254.01
C16	9°54'59"	1077.50	186.49



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	71
PROJECT FILE NO.		607411	

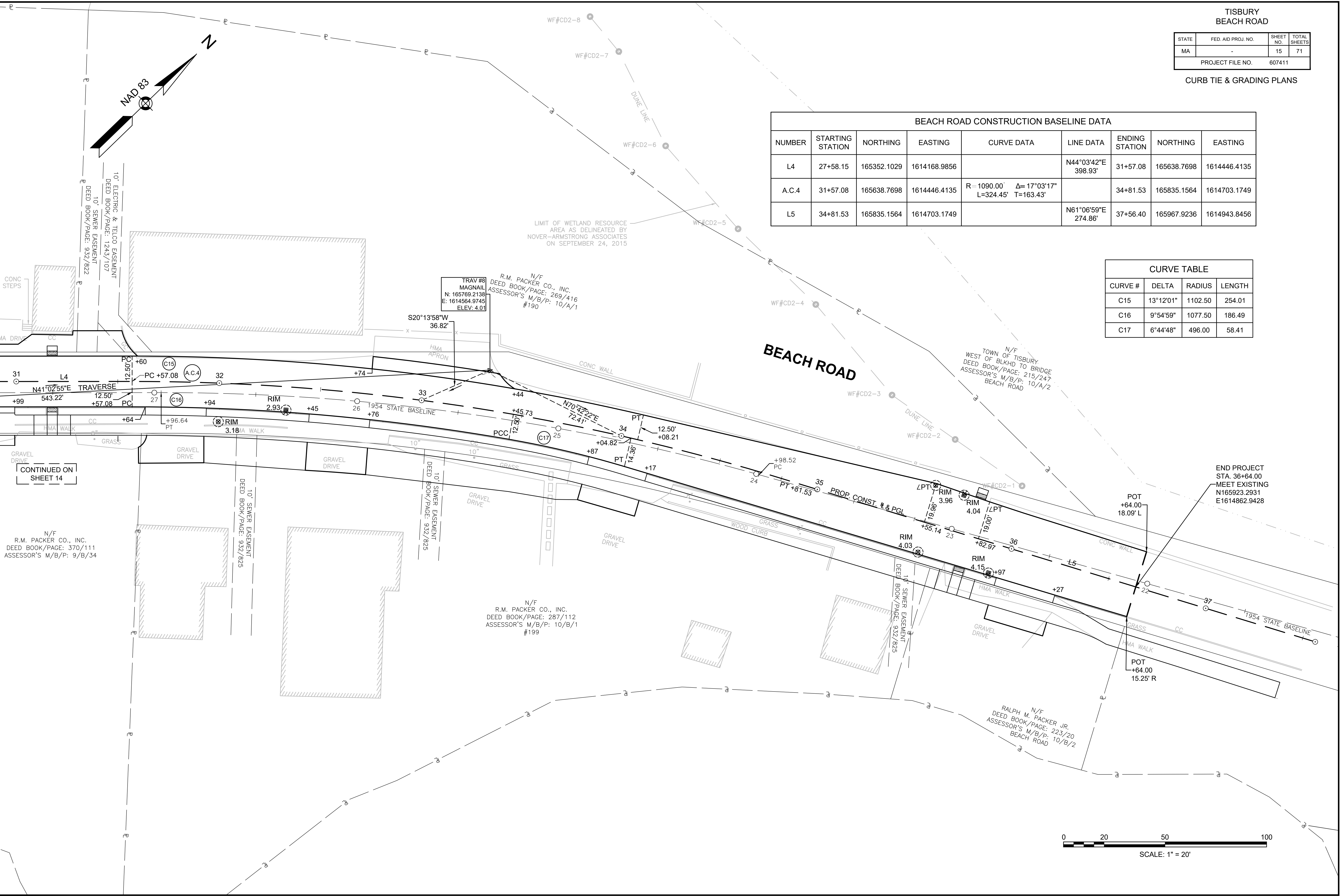
CURB TIE & GRADING PLANS

BEACH ROAD CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	27+58.15	165352.1029	1614168.9856		N44°03'42"E 398.93'	31+57.08	165638.7698	1614446.4135
A.C.4	31+57.08	165638.7698	1614446.4135	R=1090.00' Δ=17°03'17" L=324.45' T=163.43'		34+81.53	165835.1564	1614703.1749
L5	34+81.53	165835.1564	1614703.1749		N61°06'59"E 274.86'	37+56.40	165967.9236	1614943.8456

CURVE TABLE

CURVE #	DELTA	RADIUS	LENGTH
C15	13°12'01"	1102.50	254.01
C16	9°54'59"	1077.50	186.49
C17	6°44'48"	496.00	58.41



PER FIRM MAP (#25007C0103J) DATED JULY 20, 2016 THE ENTIRE SITE IS WELL BELOW THE ELEVATION OF THE VELOCITY ZONE. THE PROPOSED LIMITS OF WORK FOR BEACH ROAD FALLS WITHIN ZONE VE (EL 12 & 13) TO THE WEST AND ZONE AE (EL 10) TO THE EAST.

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	71
PROJECT FILE NO.		607411	

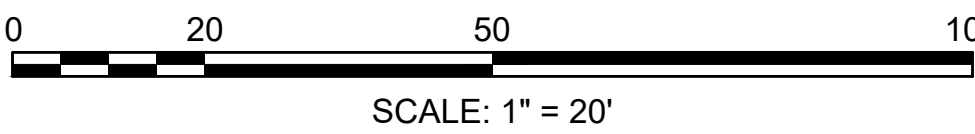
DRAINAGE & UTILITY PLANS

PROP. 1-1P ELECTRIC SERVICE RELOCATION:
3" RGS RISER & SWEEPS; 5' 3" PVC
EVERSOURCE APPROVED HANDHOLE
(POLYMER CONCRETE) CONNECT TO EXISTING

BEACH ROAD

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-105	BEACH ROAD	13+82 15.00 (LT)	RIM = 1.98	105 OUT = -0.24	-
CB-107	BEACH ROAD	13+45 15.00 (RT)	RIM = 1.91	107 OUT = -0.34	-
CBCI-101	BEACH ROAD	10+53 15.00 (LT)	RIM = 2.28	101 OUT = -1.10	-
CBCI-102	BEACH ROAD	10+54 15.40 (RT)	RIM = 2.39	102 OUT = -0.88	-
CBCI-106	BEACH ROAD	13+45 15.00 (LT)	RIM = 1.91	106 OUT = -0.34	-
CBCI-108	BEACH ROAD	13+83 15.00 (RT)	RIM = 1.99	108 OUT = -0.25	-
CBCI-109	BEACH ROAD	14+95 15.00 (LT)	RIM = 2.67	109 OUT = 0.24	-
CBCI-112	BEACH ROAD	14+80 15.00 (RT)	RIM = 2.58	112 OUT = 0.15	-

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-103	BEACH ROAD	10+90 10.50 (LT)	RIM = 2.62	104 IN = -1.46 103 OUT = -1.46	-
DMH-104	BEACH ROAD	13+38 10.50 (LT)	RIM = 2.02	111 IN = -0.48 106 IN = -0.48 107 IN = -0.48 104 OUT = -0.48	-
DMH-110	BEACH ROAD	14+75 10.50 (LT)	RIM = 2.64	109 IN = 0.16 112 IN = 0.04 110 OUT = 0.04	-
DMH-111	BEACH ROAD	13+77 10.50 (LT)	RIM = 2.06	105 IN = -0.34 108 IN = -0.34 110 IN = -0.34 111 OUT = -0.34	-
E-DMH-1	BEACH ROAD	10+37 16.15 (LT)	RIM = 2.23	EX DMH-2 IN = -1.96 101 IN = -1.22	-
E-DMH-2	BEACH ROAD	10+45 1.31 (LT)	RIM = 2.50	103 IN = -1.63 102 IN = -1.59 EX DMH-2 OUT = -1.69	-



PER FIRM MAP (#25007C0103J) DATED JULY 20, 2016 THE ENTIRE SITE IS WELL BELOW THE ELEVATION OF THE VELOCITY ZONE. THE PROPOSED LIMITS OF WORK FOR BEACH ROAD FALLS WITHIN ZONE VE (EL 12 & 13) TO THE WEST AND ZONE AE (EL 10) TO THE EAST.

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	71
PROJECT FILE NO.		607411	

DRAINAGE & UTILITY PLANS

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-109	BEACH ROAD	14+95 15.00 (LT)	RIM = 2.67	109 OUT = 0.24	-
CBCI-112	BEACH ROAD	14+80 15.00 (RT)	RIM = 2.58	112 OUT = 0.15	-
DMH-110	BEACH ROAD	14+75 10.50 (LT)	RIM = 2.64	109 IN = 0.16 112 IN = 0.04 110 OUT = 0.04	-

BEACH ROAD

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-202	BEACH ROAD	20+67 13.16 (RT)	RIM = 3.81	202 OUT = 0.59	-
CBCI-205	BEACH ROAD	20+49 14.33 (LT)	RIM = 2.77	205 OUT = 0.52	-
CBCI-208	BEACH ROAD	20+24 14.85 (LT)	RIM = 2.84	208 OUT = 0.59	-
CBCI-211	BEACH ROAD	18+01 15.00 (RT)	RIM = 4.04	211 OUT = 1.62	-
CBCI-212	BEACH ROAD	19+50 15.00 (LT)	RIM = 3.18	212 OUT = 0.93	-
SPECIAL DMH-204	BEACH ROAD	20+66 5.46 (LT)	RIM = 3.14	207 IN = 0.44 205 IN = 0.45 202 IN = 0.44 204 OUT = 0.44	5' INSIDE DIAM.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-207	BEACH ROAD	20+32 5.94 (LT)	RIM = 3.18	209 IN = 0.56 208 IN = 0.56 207 OUT = 0.56	-
DMH-209	BEACH ROAD	19+55 7.84 (LT)	RIM = 3.45	210 IN = 0.84 212 IN = 0.88 209 OUT = 0.84	-
DMH-210	BEACH ROAD	18+17 10.27 (LT)	RIM = 3.97	211 IN = 1.49 210 OUT = 1.49	-

0 20 50 100
SCALE: 1" = 20'

PER FIRM MAP (#25007C0103J) DATED JULY 20, 2016 THE ENTIRE SITE IS WELL BELOW THE ELEVATION OF THE VELOCITY ZONE. THE PROPOSED LIMITS OF WORK FOR BEACH ROAD FALLS WITHIN ZONE VE (EL 12 & 13) TO THE WEST AND ZONE AE (EL 10) TO THE EAST.

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-320	BEACH ROAD	25+75 12.50 (LT)	RIM = 3.24	320 OUT = 0.64	-
CB-321	BEACH ROAD	25+75 12.50 (RT)	RIM = 3.24	321 OUT = 0.58	-
CB-323	BEACH ROAD	25+30 12.50 (LT)	RIM = 3.16	323 OUT = 0.74	-
CB-324	BEACH ROAD	25+30 12.49 (RT)	RIM = 3.16	324 OUT = 0.74	-
DMH-319	BEACH ROAD	25+88 4.14 (RT)	RIM = 3.44	322 IN = 0.37 321 IN = 0.47 320 IN = 0.47 319 OUT = 0.37	-
DMH-322	BEACH ROAD	25+44 3.51 (RT)	RIM = 3.34	324 IN = 0.61 323 IN = 0.57 322 OUT = 0.57	-

COASTAL DUNE RESTORATIONS		
AREAS	PERMANENT	TEMPORARY
AREA 1	78.63 SF	-
AREA 2	137.78 SF	-
AREA 3	155.24 SF	-
AREA 4	126.08 SF	-
AREA 5	170.73 SF	-
AREA 6	30.68 SF	-
AREA 7	22.72 SF	-
AREA 8	71.58 SF	-
AREA 9	203.01 SF	-
AREA 10	223.57 SF	-
TOTAL	1,220.02 SF	-

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	71
PROJECT FILE NO.		607411	

DRAINAGE & UTILITY PLANS

COASTAL BEACH IMPACTS		
AREAS	PERMANENT	TEMPORARY
AREA 1	425.91 SF	-
TOTAL	425.91 SF	-

GENERAL LEGEND

- PERMANENT COASTAL DUNE IMPACT AREA
- TEMPORARY COASTAL DUNE IMPACT AREA
- PERMANENT COASTAL BEACH IMPACT AREA
- PERMANENT COASTAL DUNE RESTORATION AREA

BEACH ROAD

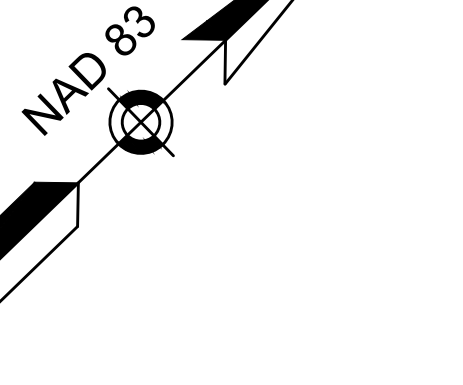
STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-201	BEACH ROAD	21+98 12.50 (RT)	RIM = 3.19	201 OUT = 0.76	-
CB-202	BEACH ROAD	20+67 13.16 (RT)	RIM = 3.81	202 OUT = 0.59	-
CBCI-203	BEACH ROAD	21+45 12.50 (LT)	RIM = 3.00	203 OUT = 0.58	-
CBCI-205	BEACH ROAD	20+49 14.33 (LT)	RIM = 2.77	205 OUT = 0.52	-
CBCI-208	BEACH ROAD	20+24 14.85 (LT)	RIM = 2.84	208 OUT = 0.59	-
CBCI-212	BEACH ROAD	19+50 15.00 (LT)	RIM = 3.18	212 OUT = 0.93	-

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
SPECIAL DMH-204	BEACH ROAD	20+66 5.46 (LT)	RIM = 3.14	207 IN = 0.44 205 IN = 0.45 202 IN = 0.44 204 OUT = 0.44	5' INSIDE DIAM.
DMH-207	BEACH ROAD	20+32 5.94 (LT)	RIM = 3.18	209 IN = 0.56 208 IN = 0.56 207 OUT = 0.56	-
DMH-209	BEACH ROAD	19+55 7.84 (LT)	RIM = 3.45	210 IN = 0.84 212 IN = 0.88 209 OUT = 0.84	-
SPECIAL DMH-213	BEACH ROAD	21+49 4.89 (LT)	RIM = 3.16	204 IN = 0.13 201 IN = 0.24 203 IN = 0.24 213 OUT = 0.13	6' INSIDE DIAM.
DMH-214	BEACH ROAD	21+49 80.51 (LT)	RIM = 4.33	213 IN = -0.15 214 OUT = -1.01 (EXISTING)	-

COASTAL DUNE IMPACTS		
AREAS	PERMANENT	TEMPORARY
AREA 1	83.98 SF	502.97 SF
AREA 2	29.36 SF	173.71 SF
AREA 3	9.58 SF	220.51 SF
AREA 4	47.97 SF	1,980.56 SF
AREA 5	46.49 SF	237.35 SF
AREA 6	27.88 SF	145.93 SF
AREA 7	855.63 SF	398.03 SF
AREA 8	59.27 SF	151.61 SF
AREA 9	257.15 SF	30.58 SF
AREA 10	9.75 SF	72.31 SF
AREA 11	28.41 SF	148.21 SF
TOTAL	1,455.47 SF	4,061.77 SF

0 20 50 100
SCALE: 1" = 20'

PER FIRM MAP (#25007C0103J) DATED JULY 20, 2016 THE ENTIRE SITE IS WELL BELOW THE ELEVATION OF THE VELOCITY ZONE. THE PROPOSED LIMITS OF WORK FOR BEACH ROAD FALLS WITHIN ZONE VE (EL 12 & 13) TO THE WEST AND ZONE AE (EL 10) TO THE EAST.



AREAS	COASTAL DUNE IMPACTS	
	PERMANENT	TEMPORARY
AREA 12	441.21 SF	1,222.93 SF
AREA 13	151.52 SF	625.57 SF
AREA 14	82.03 SF	236.68 SF
AREA 15	105.64 SF	146.66 SF
AREA 16	43.39 SF	31.30 SF
AREA 17	-	65.58 SF
AREA 18	-	95.53 SF
AREA 19	-	190.75 SF
TOTAL	823.79 SF	2,615.00 SF

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-305	BEACH ROAD	30+68 12.50 (LT)	RIM = 2.07	305 OUT = -1.83	-
CB-307	BEACH ROAD	30+21 12.50 (LT)	RIM = 1.81	307 OUT = -1.33	-
CB-308	BEACH ROAD	30+19 12.50 (RT)	RIM = 1.77	308 OUT = -1.29	-
CB-310	BEACH ROAD	29+93 12.50 (LT)	RIM = 1.69	310 OUT = -1.37	-
CB-311	BEACH ROAD	29+93 12.50 (RT)	RIM = 1.69	311 OUT = -1.37	-
CB-315	BEACH ROAD	28+68 12.50 (LT)	RIM = 2.25	315 OUT = -0.87	-
CB-316	BEACH ROAD	28+68 12.50 (RT)	RIM = 2.25	316 OUT = -0.84	-

TISBURY
BEACH ROAD

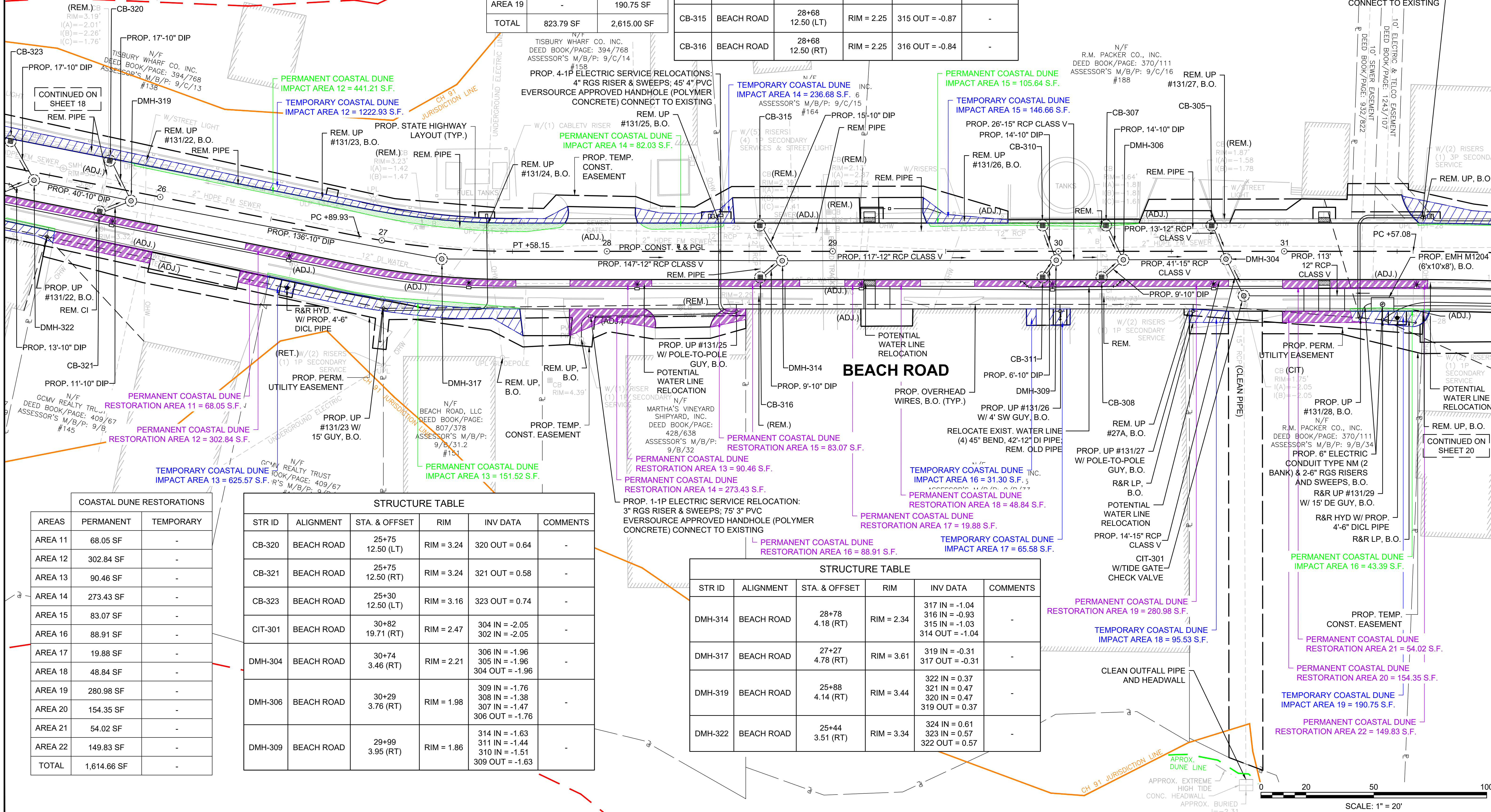
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	71
PROJECT FILE NO.		607411	

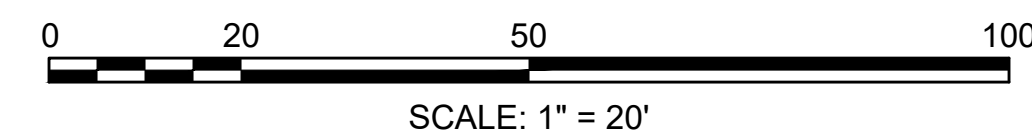
DRAINAGE & UTILITY PLANS

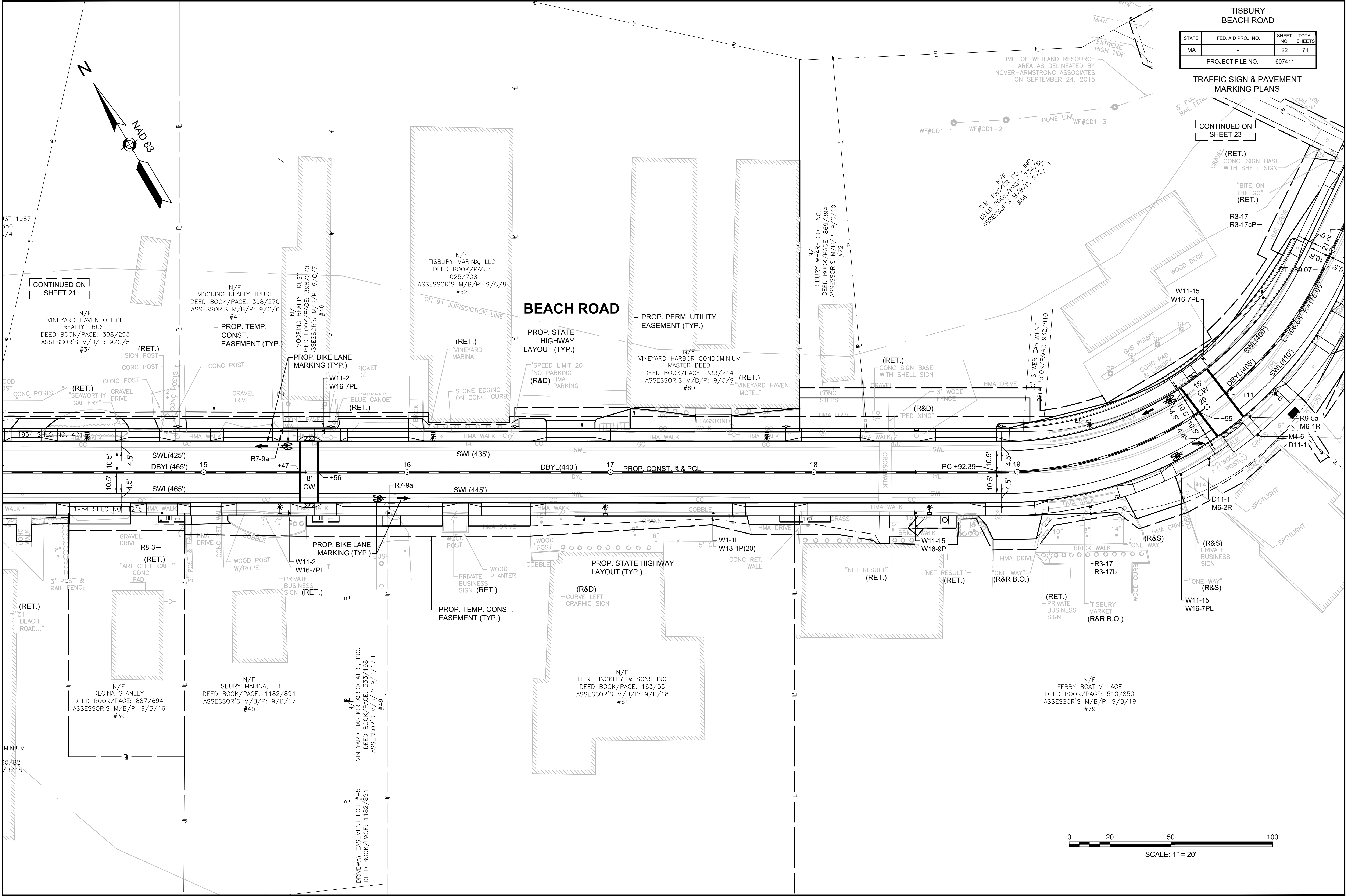
GENERAL LEGEND

- PERMANENT COASTAL DUNE IMPACT AREA
- TEMPORARY COASTAL DUNE IMPACT AREA
- PERMANENT COASTAL BEACH IMPACT AREA
- PERMANENT COASTAL DUNE RESTORATION AREA

PROP. 1-3P ELECTRIC SERVICE RELOCATION: 4" RGS RISER & SWEEPS; 70' 4" PVC EVERSOURCE APPROVED HANDHOLE (POLYMER CONCRETE) CONNECT TO EXISTING



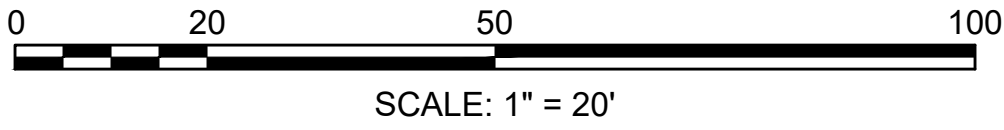




TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	71
PROJECT FILE NO.		607411	

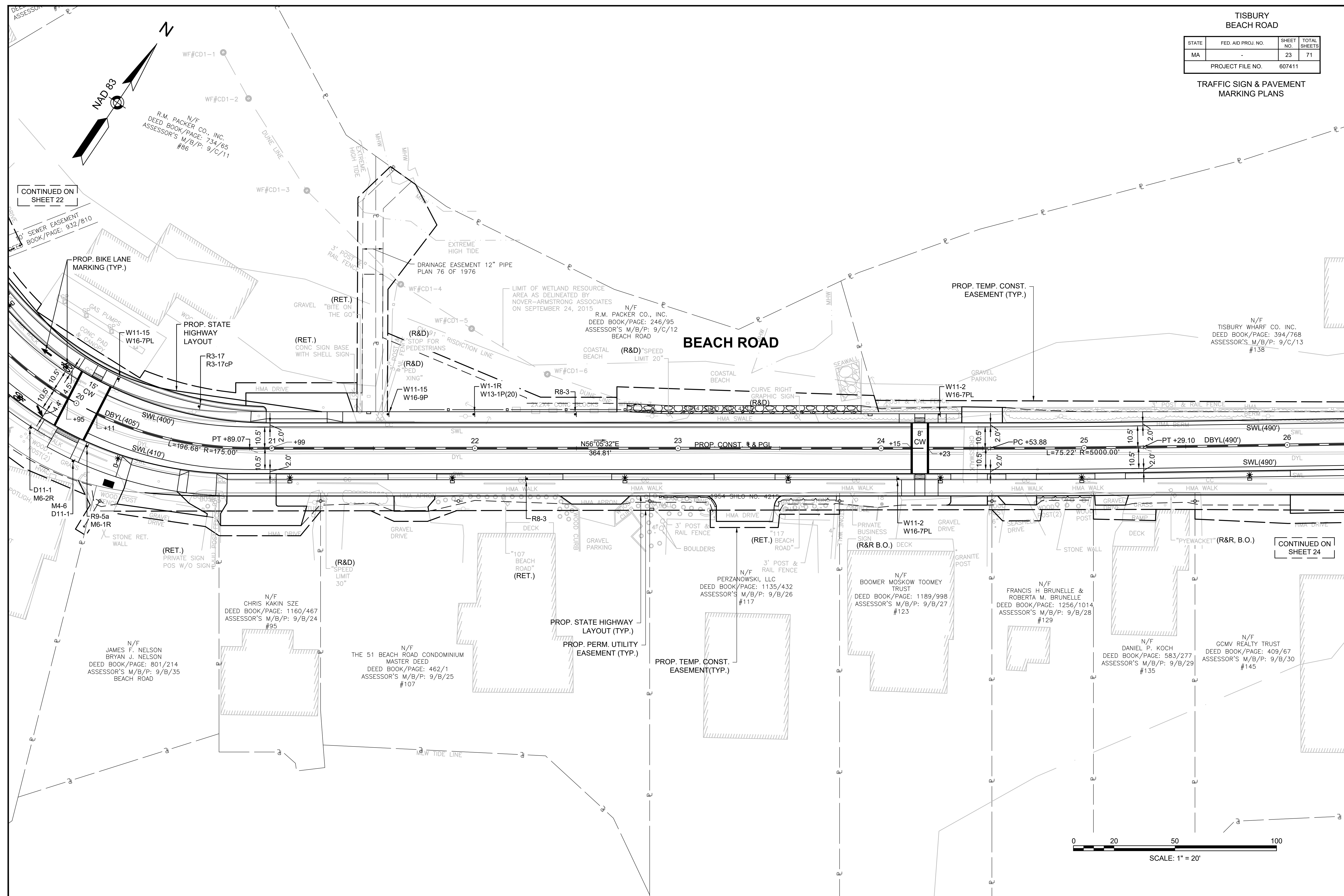
TRAFFIC SIGN & PAVEMENT MARKING PLANS

CONTINUED ON SHEET 23



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	71
PROJECT FILE NO.		607411	

BEACH ROAD



10' ELECTRIC & TELCO EASEMENT
DEED BOOK/PAGE: 1243/107

10' SEWER EASEMENT
DEED BOOK/PAGE: 932/822

(R&D)

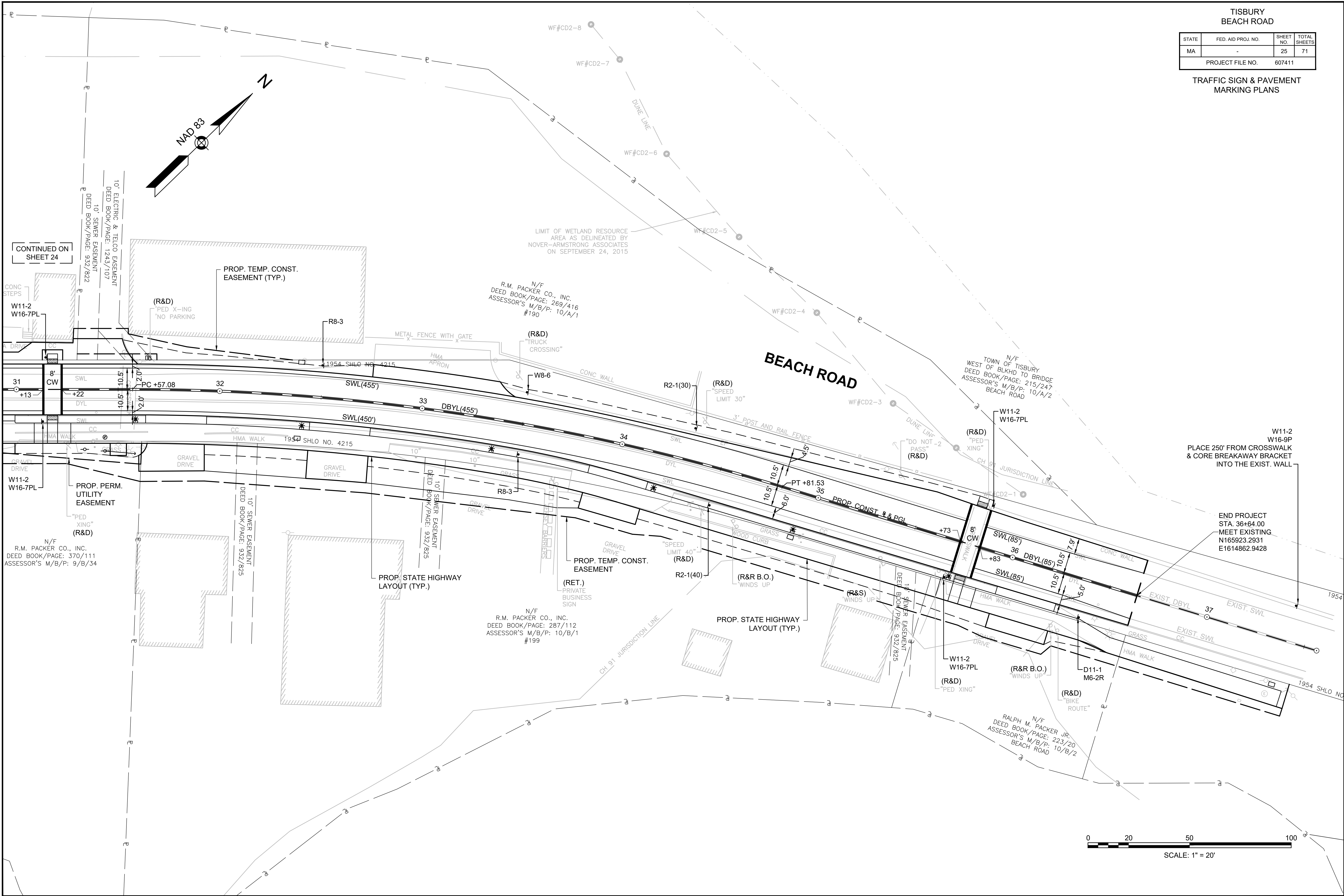


TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	71

PROJECT FILE NO. 607411

TRAFFIC SIGN & PAVEMENT
MARKING PLANS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	71
PROJECT FILE NO.		607411	

TRAFFIC SIGN SUMMARY SHEET

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
R2-1(20)	24	30		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
R2-1(30)	24	30		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	P5 (2 REQ'D)	5.00	10.00
R2-1(40)	24	30		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
R3-17	30	24		MUTCD STANDARD	MUTCD STANDARD	4	WHITE	BLACK	-	P5 (4 REQ'D)	5.00	20.00
R3-17cP	30	12		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	MNT w/R3-17	2.50	5.00
R3-17b	30	12		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	MNT w/R3-17	2.50	5.00
R7-9a	12	18		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	RED & BLACK	RED	P5 (2 REQ'D)	1.50	3.00
R8-3	24	24		MUTCD STANDARD	MUTCD STANDARD	8	WHITE	BLACK & RED SYMBOL	BLACK	P5 (8 REQ'D)	4.00	32.00
R9-5a	12	18		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	1.50	1.50
W1-1L	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
W1-1R	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
W8-6	24	24		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	P5 (2 REQ'D)	4.00	8.00
W11-2	30	30		MUTCD STANDARD	MUTCD STANDARD	13	YELLOW	BLACK	BLACK	P5 (13 REQ'D)	6.25	81.25
W11-15	30	30		MUTCD STANDARD	MUTCD STANDARD	4	YELLOW	BLACK	BLACK	P5 (4 REQ'D)	6.25	25.00
W13-1P(20)	18	18		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	1 MNT w/W1-1L 1 MNT w/W1-1R	2.25	4.50
W16-7PL	24	12		MUTCD STANDARD	MUTCD STANDARD	14	YELLOW	BLACK	BLACK	12 MNT w/W11-2 2 MNT w/W11-15	2.00	28.00
W16-9P	24	12		MUTCD STANDARD	MUTCD STANDARD	3	YELLOW	BLACK	BLACK	1 MNT w/W11-2 2 MNT w/W11-15	2.00	6.00

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
M4-6	24	6		MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	P5 (1 REQ'D)	1.00	1.00
M6-1R	12	9		MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	MNT w/R9-5a	0.75	0.75
M6-2R	12	9		MUTCD STANDARD	MUTCD STANDARD	2	GREEN	WHITE	WHITE	MNT w/D11-1	0.75	1.50
D3-1 (POS)	42	12		6"C/4.5"C (INCL. TOWN SEAL)	4.5"C 3"	2	GREEN H/I	SILVER/ WHITE H/I	WHITE H/I	P5 (1 REQ'D) MNT BTB	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
D11-1	24	18		MUTCD STANDARD	MUTCD STANDARD	3	GREEN	WHITE	WHITE	P5 (2 REQ'D); 1 MNT w/M4-6	3.00	9.00

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 P5 POSTS OR AS OTHERWISE INDICATED.
- ALL P5 POSTS SHALL BE TELESCOPIC SQUARE TYPE POSTS.
- 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.

TRAFFIC CONTROL NOTES

- GENERAL**
- ALL TEMPORARY TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
 - 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.
 - LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS UNLESS UNDER TEMPORARY SIGNAL CONTROL. 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, CAN LANE RESTRICTIONS REMAIN OVERNIGHT.
 - 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 EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
 - PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" SHALL BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER 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 TEMPORARY BARRIER.
 - 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.
 - TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES:
ENGLISH UNITS:
L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
L = WS/60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
 - ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1 PLATES SHALL BE USED WHERE APPROPRIATE.
 - DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.

GRADE DIFFERENCES

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

CONSTRUCTION SIGNING

- THE FIRST CONSTRUCTION SIGN IN A SERIES ON EACH APPROACH TO THE PROJECT SHALL BE FLUORESCENT ORANGE, HIGH PERFORMANCE (OR HIGH INTENSITY) SHEETING.
- ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.
- CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL REMAIN IN PLACE FOR THE ENTIRE PROJECT DURATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 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.
- EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
- ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
- 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.
- USE W20-7b AND 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.

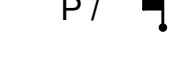
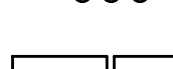
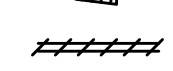
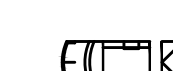
PAVEMENT MARKINGS

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

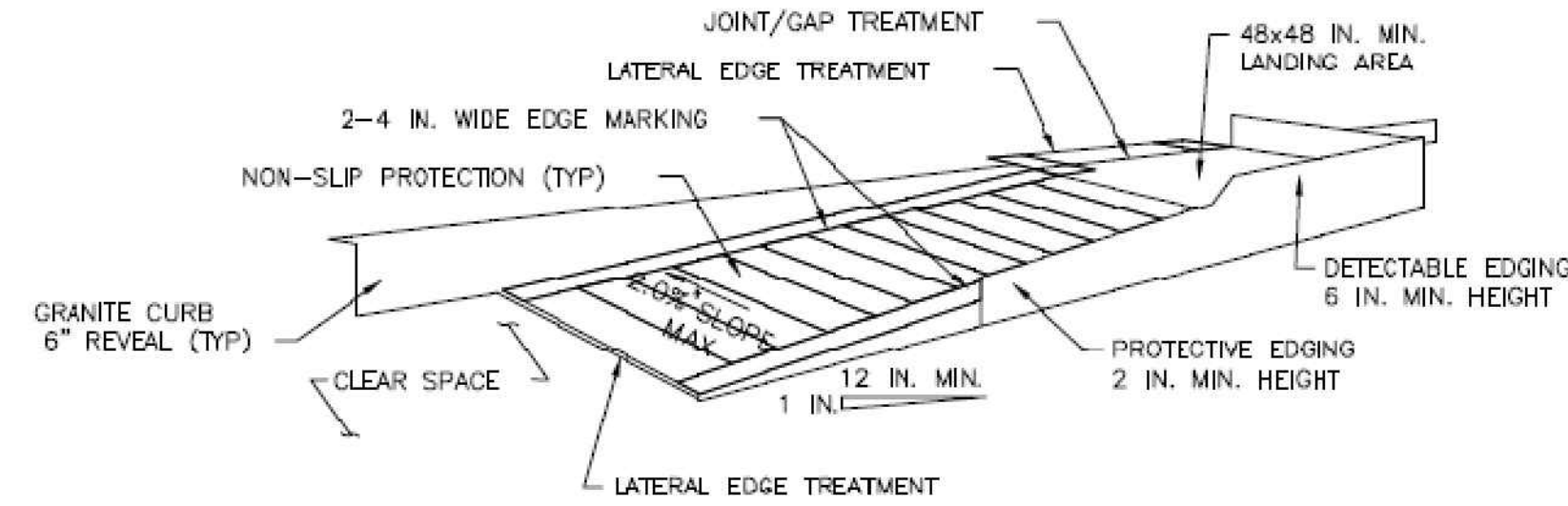
- THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MINIMUM SPACING SHALL BE 20' O.C.
- REFLECTORIZED CONES SHALL BE 36" HIGH.
- FLASHING OR STEADY BURN WARNING LIGHTS SHALL ALSO BE USED ON BARRICADES, JERSEY BARRIERS OR WHERE DIRECTED BY THE ENGINEER. IF USED THEY SHALL MEET THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES."
- PLASTIC DRUMS WITH SOME FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA SET FORTH OF NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
- SIGNS AND SIGN SUPPORT LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

TRAFFIC MANAGEMENT LEGEND

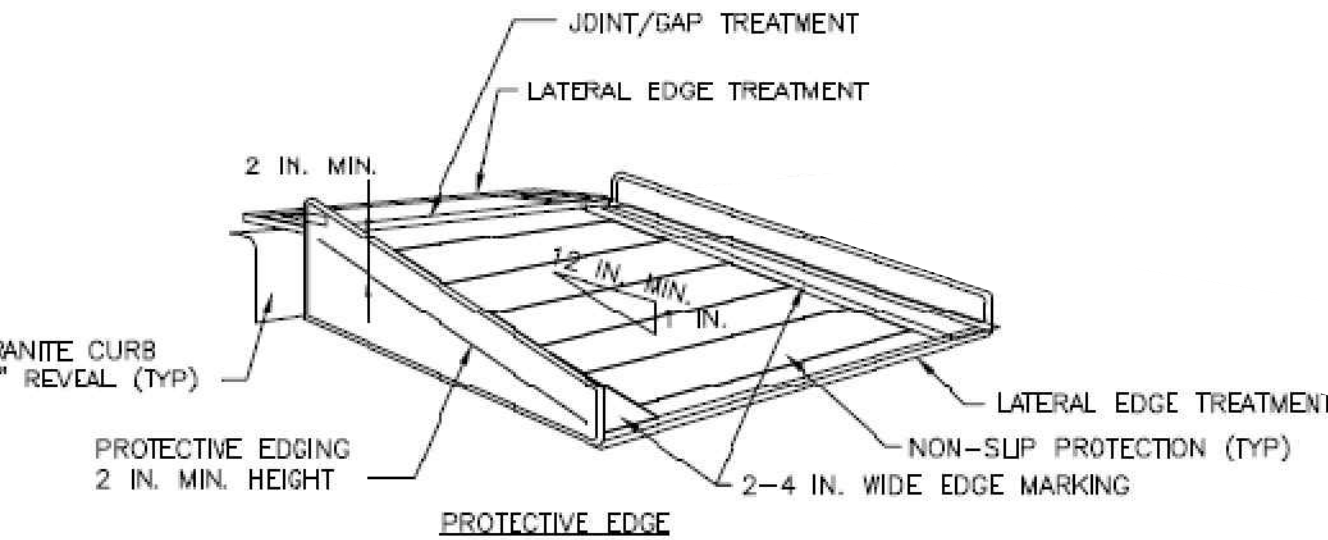
-  WORK AREA
-  DIRECTION OF TRAVEL
-  REFLECTORIZED PLASTIC DRUM OR 36" CONE
-  REFLECTORIZED PLASTIC DRUM WITH TYPE 'A' FLASHING WARNING LIGHT
-  POLICE OFFICER OR FLAGGER CONTROL
-  PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
-  FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
-  TEMPORARY PRECAST CONCRETE BARRIER WITH TEMPORARY FENCE & WHITE REFLECTORS
-  TEMPORARY IMPACT ATTENUATOR
-  PAVEMENT MARKINGS TO COVER OR REMOVE (SEE NOTES 23 & 24)
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  MOVABLE IMPACT ATTENUATOR

NOTES:

- CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
- PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
- DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.

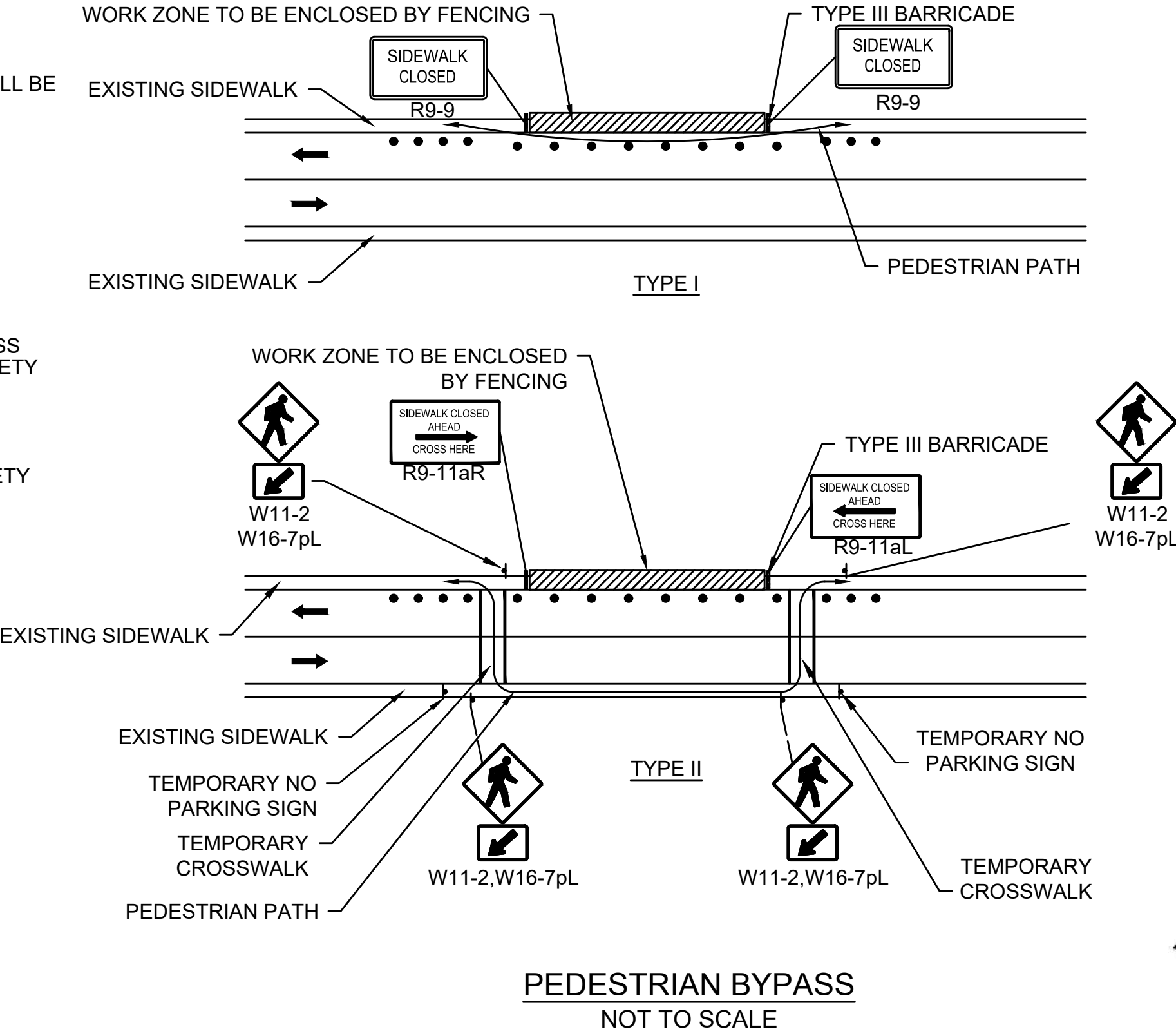


TEMPORARY CURB RAMP-PARALLEL TO CURB

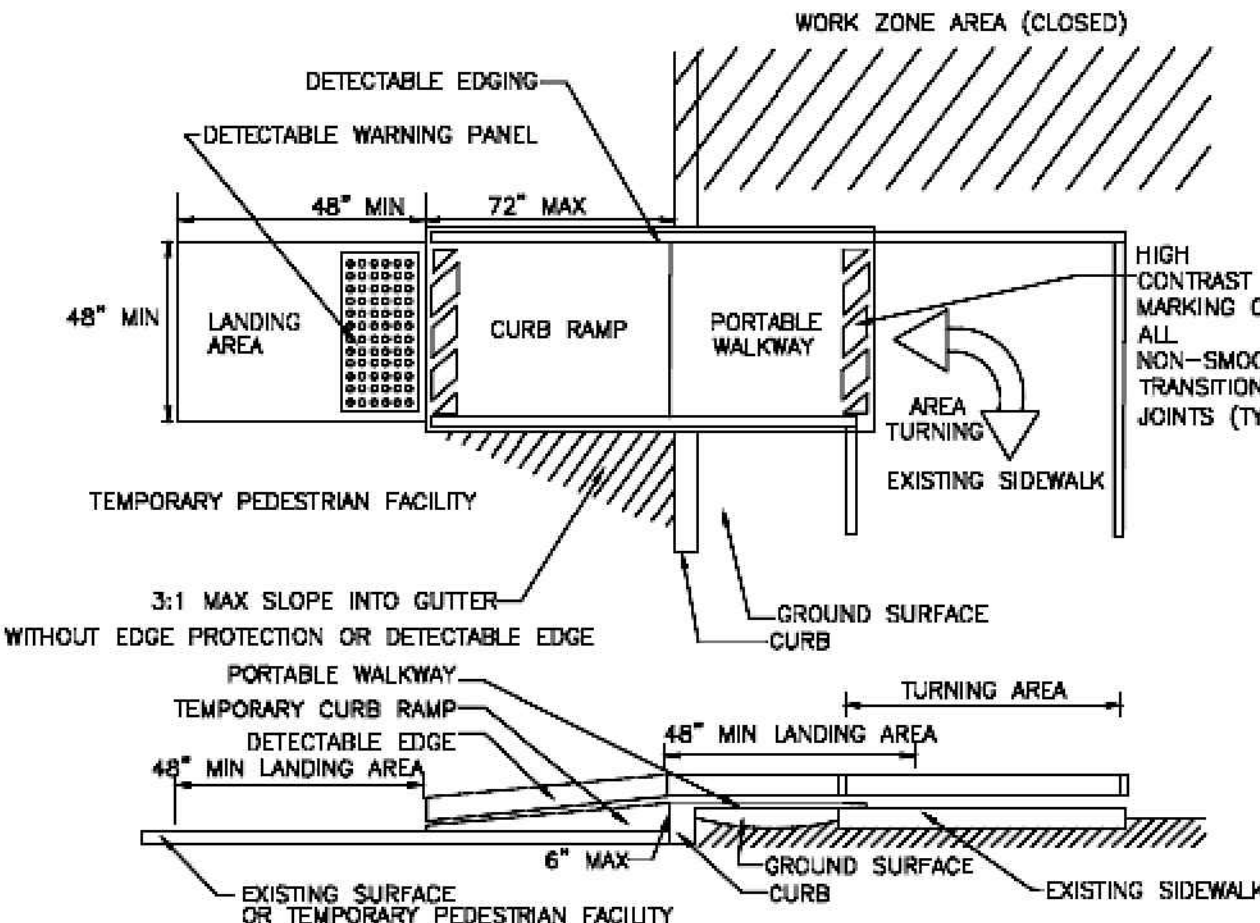


TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

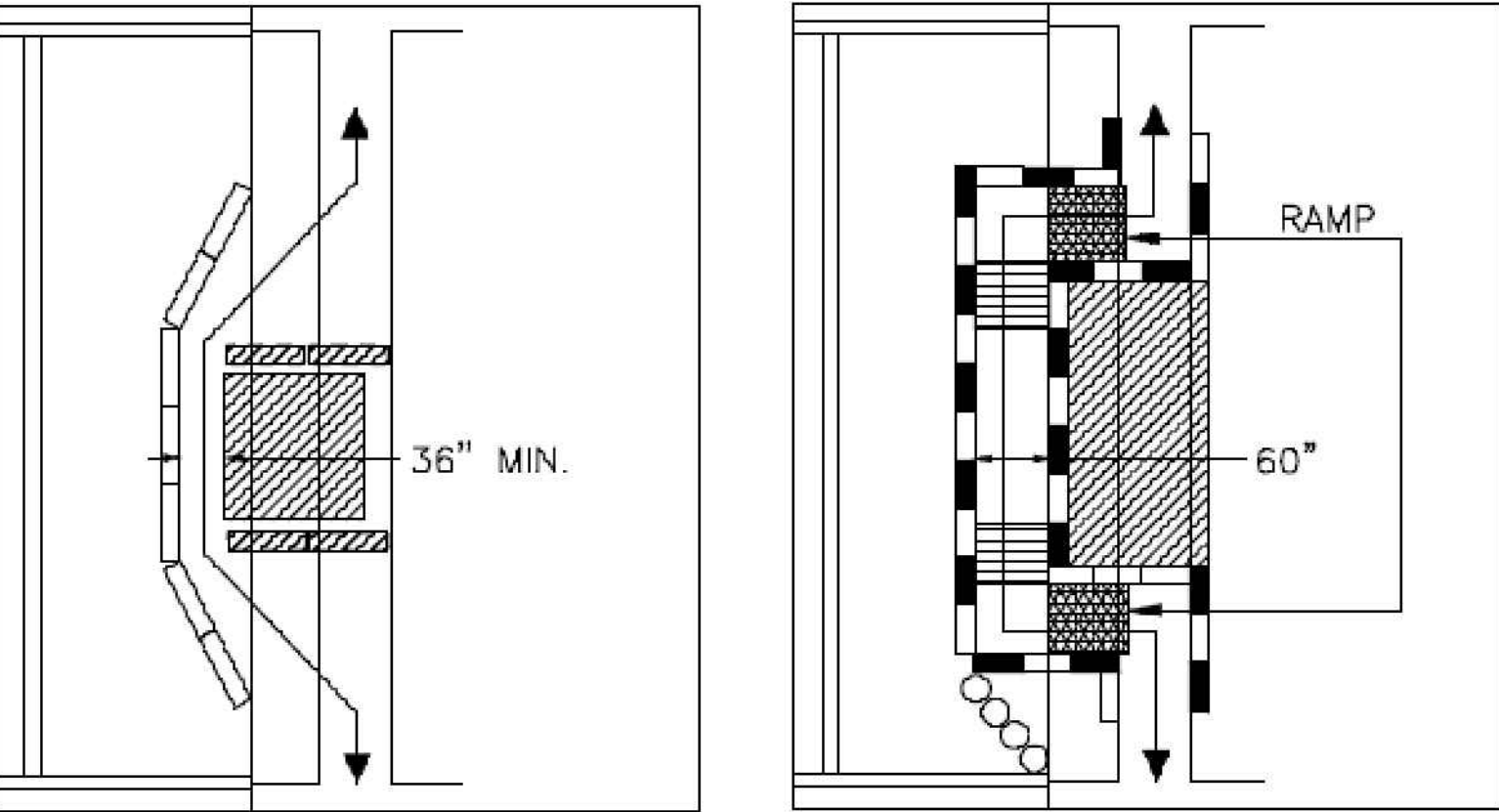
FIGURE PED-1 PEDESTRIAN DETAILS



PEDESTRIAN BYPASS
NOT TO SCALE



TEMPORARY CURB RAMP-TYPE 2
FIGURE PED-2 PEDESTRIAN DETAILS



- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

AUDIBLE DEVICES

For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.

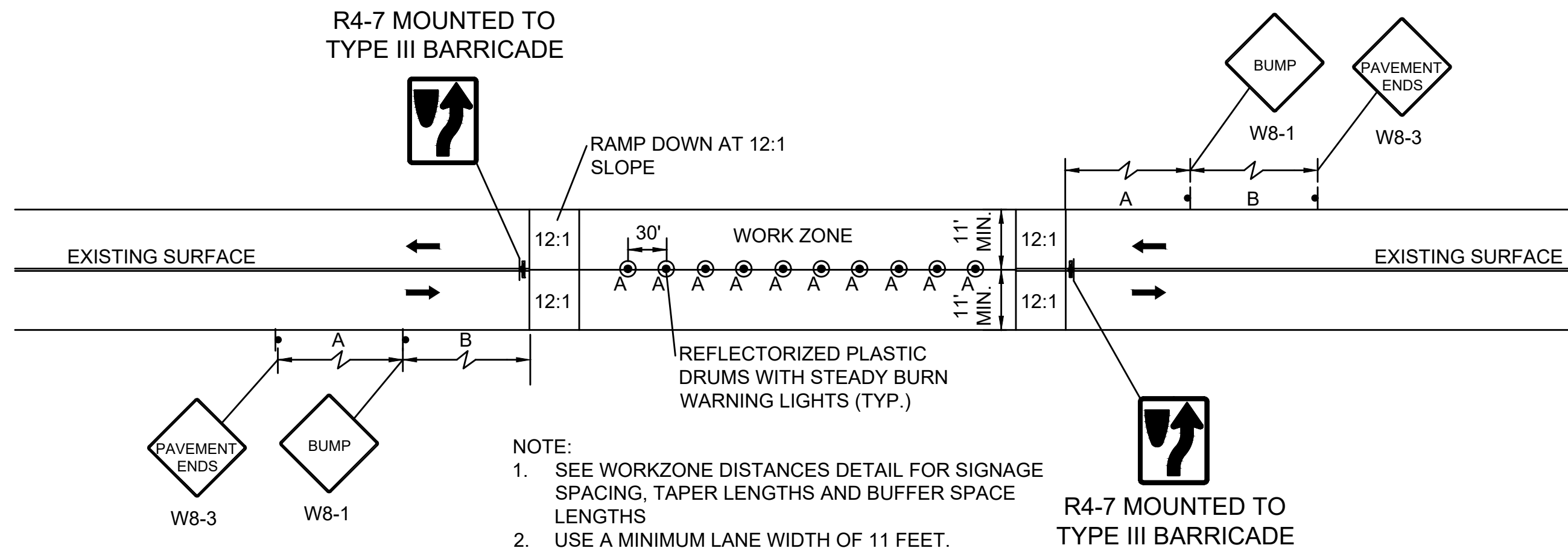
FIGURE PED-3 PEDESTRIAN DETAILS

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	71
PROJECT FILE NO.		607411	

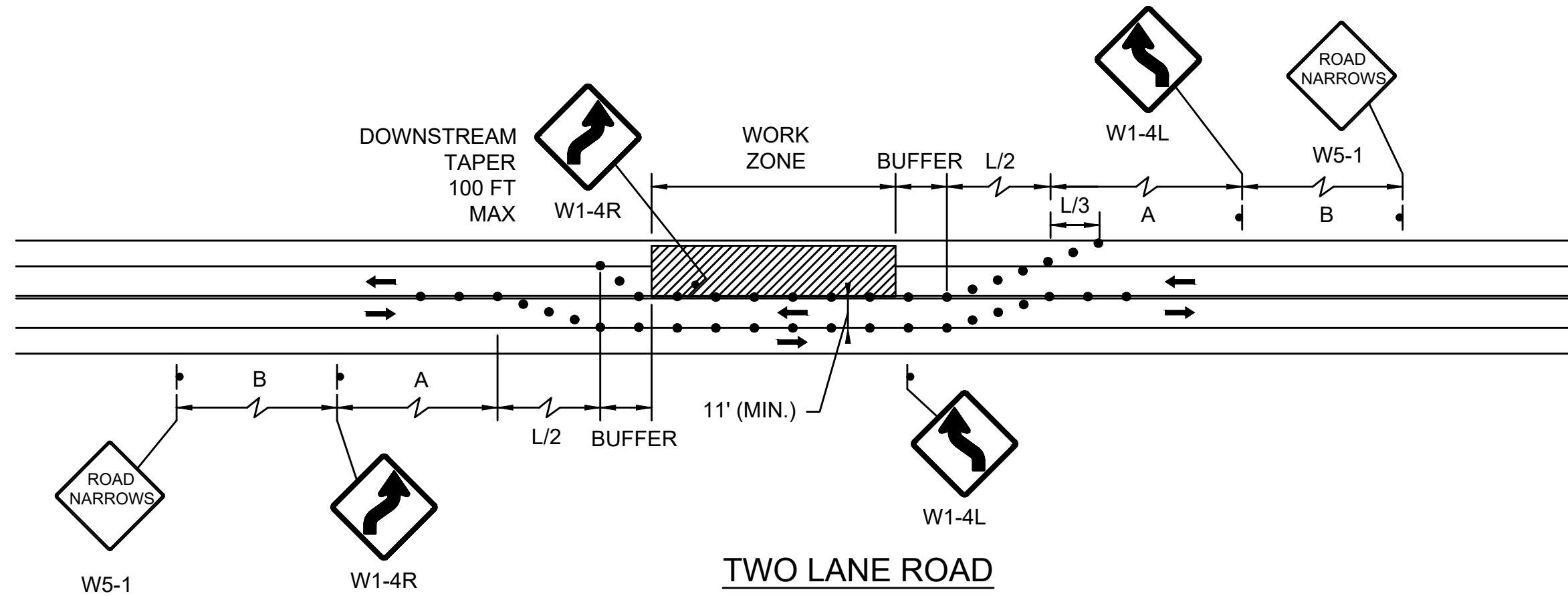
TEMPORARY TRAFFIC
CONTROL PLANS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	71
PROJECT FILE NO.		607411	

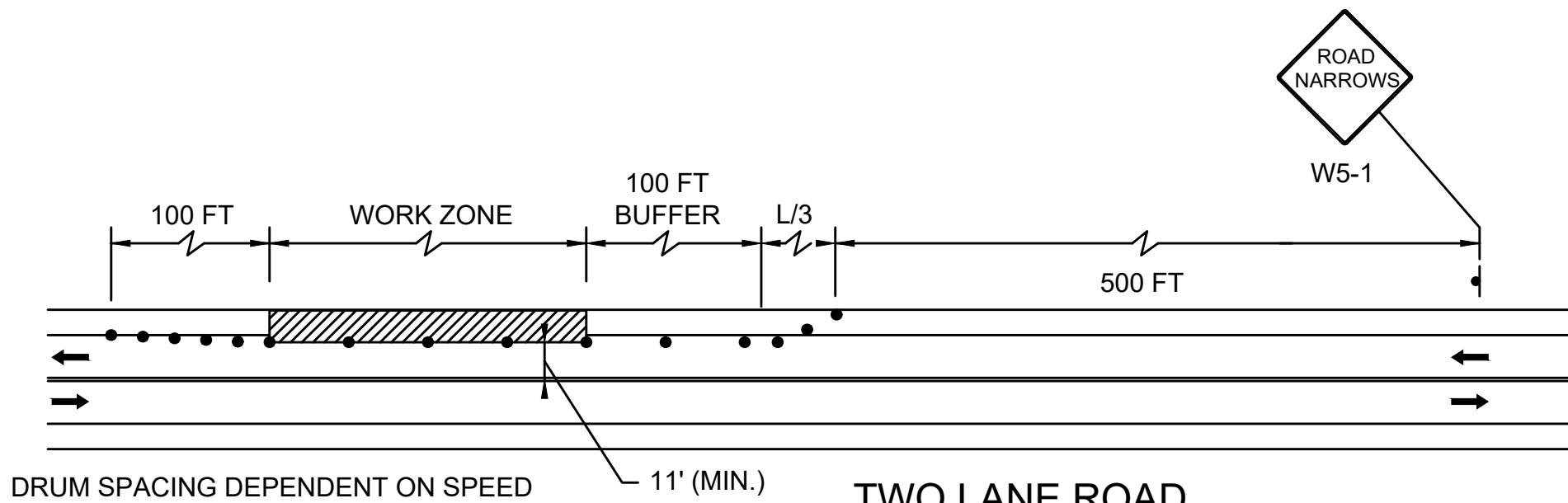
TEMPORARY TRAFFIC
CONTROL PLANS



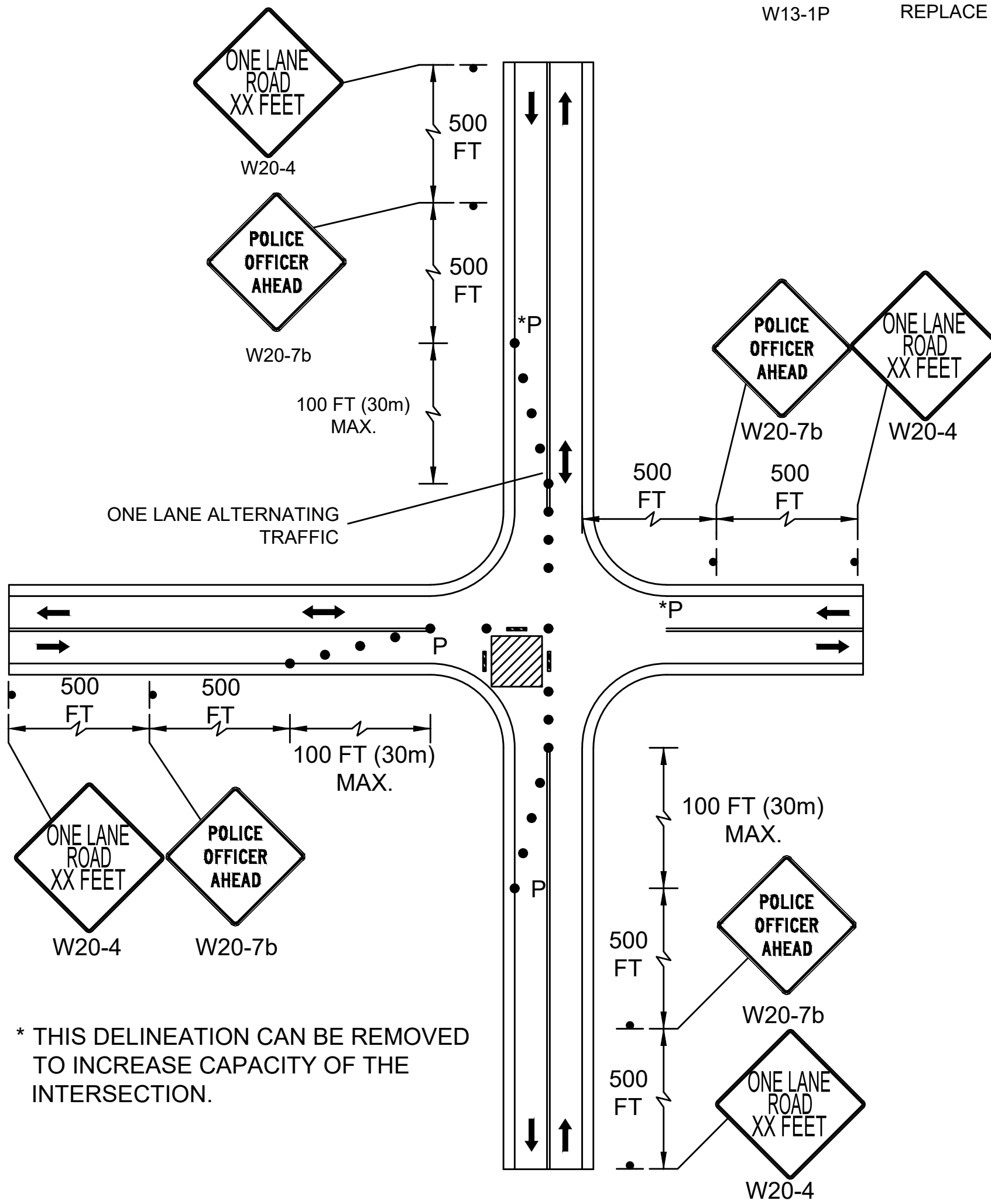
FULL DEPTH CONSTRUCTION
CONSTRUCTION NOT IN PROGRESS
NOT TO SCALE



TWO LANE ROAD
SHOULDER AND TRAVEL LANE CLOSED
NOT TO SCALE

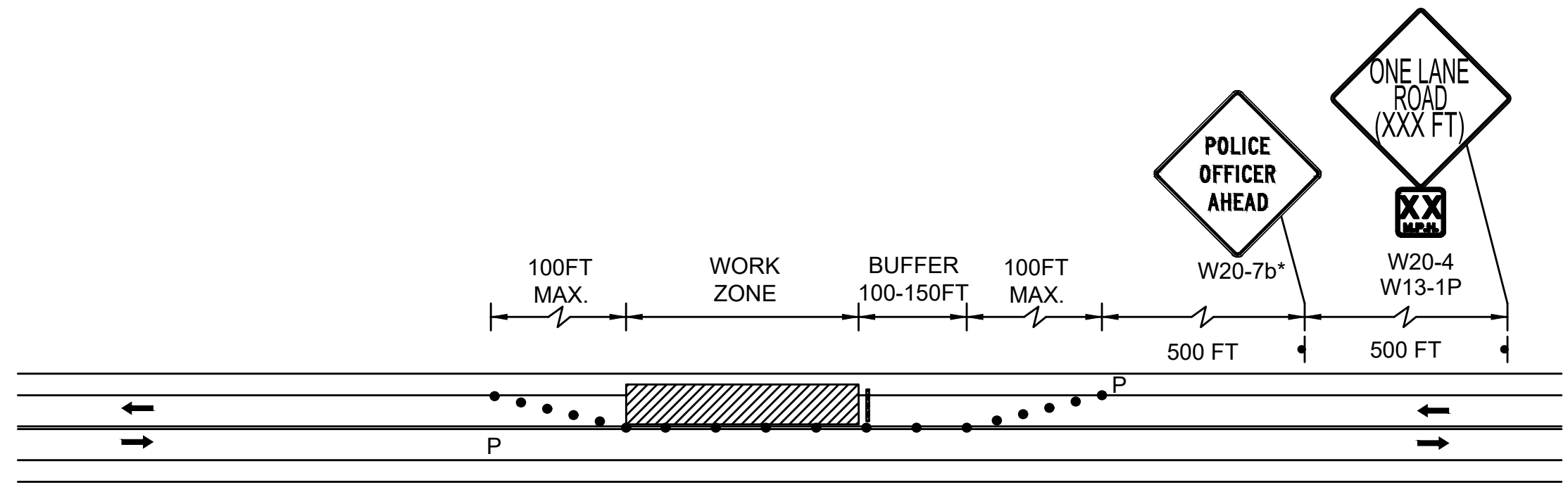


TWO LANE ROAD
SHOULDER CLOSED
NOT TO SCALE



* THIS DELINEATION CAN BE REMOVED
TO INCREASE CAPACITY OF THE
INTERSECTION.

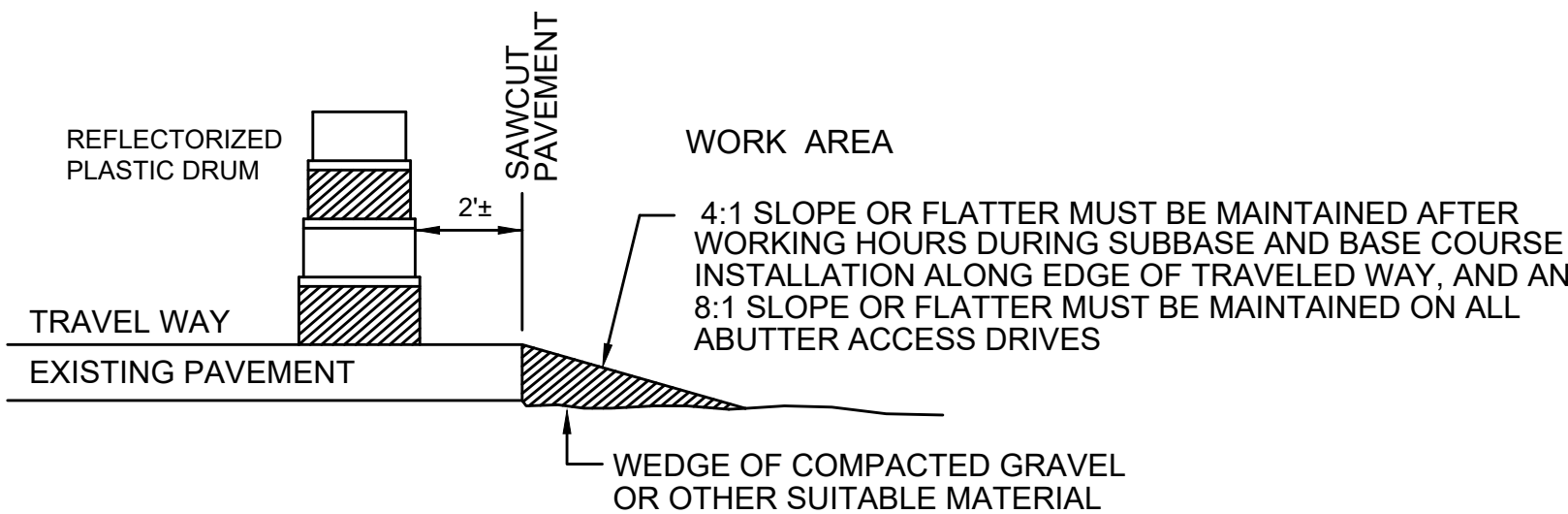
SINGLE LANE APPROACH
ONE QUADRANT CLOSURE
NOT TO SCALE



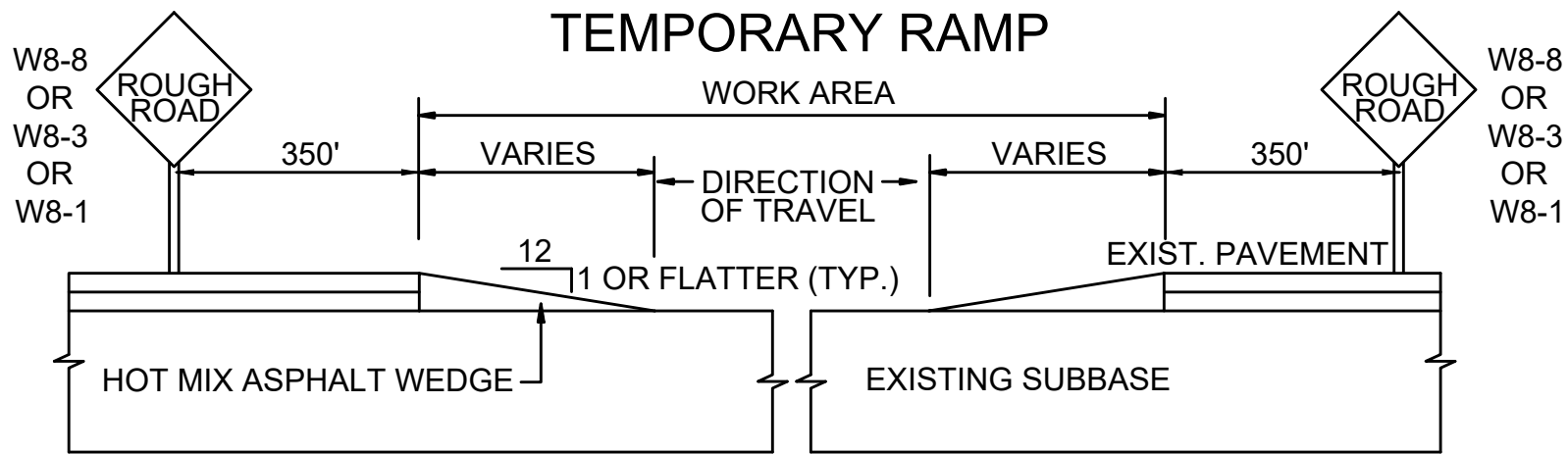
TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC
NOT TO SCALE

ALL TEMPORARY TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL
MEASURES SHALL CONFORM TO MASSDOT'S "2014 STANDARD DETAILS AND
DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL
PLANS" INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING DETAILS:

- FIGURES GEN-1 THRU GEN-6
- FIGURES PED-1 THRU PED-7
- FIGURE INT-2
- FIGURES TLR-1 THRU TLR-3

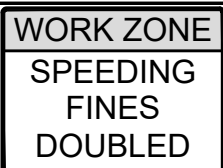
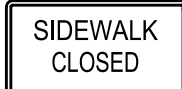
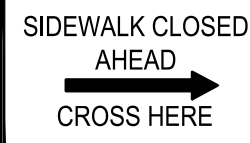
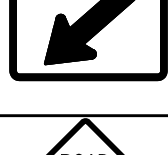
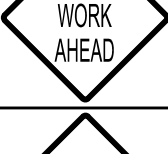


AFTER WORK HOURS TREATMENT
FOR LATERAL SLOPING



TEMPORARY RAMP

CONSTRUCTION SIGN SUMMARY

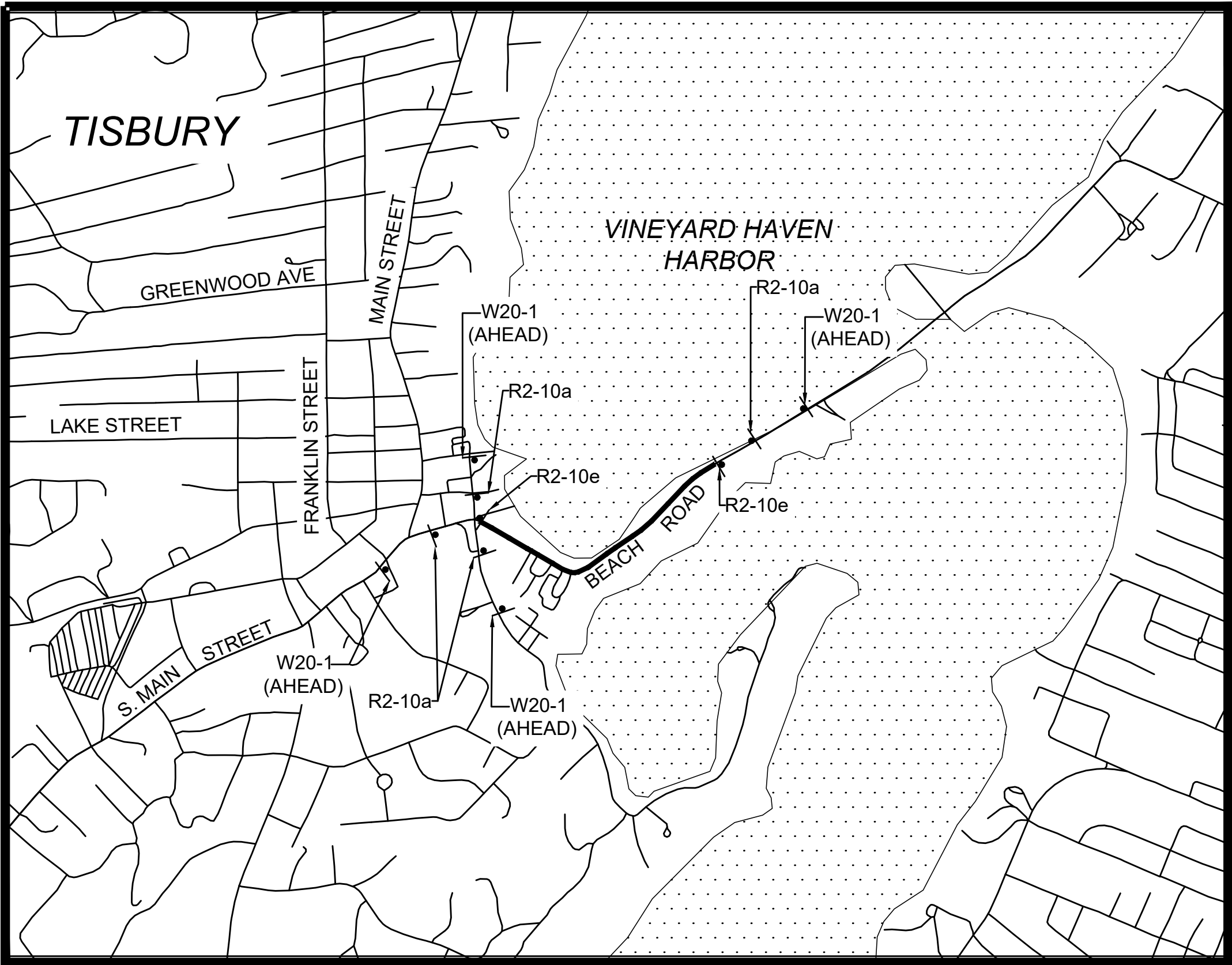
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER		
R2-10a	48"	36"		MASSDOT STANDARD		4	FLUOR. ORANGE	BLACK	BLACK	12.00	48.00
R2-10e	36"	48"				2	FLUOR. ORANGE	BLACK	BLACK	12.00	24.00
R4-7	30"	30"		MUTCD STANDARD		4	WHITE	BLACK	BLACK	6.25	25.00
R9-9	24"	12"				2	WHITE	BLACK	BLACK	2.00	4.00
R9-11aL	24"	12"				1	WHITE	BLACK	BLACK	2.00	2.00
R9-11aR	24"	12"				1	WHITE	BLACK	BLACK	2.00	2.00
W1-4L	30"	30"				2	FLUOR. ORANGE	BLACK	BLACK	6.25	12.50
W1-4R	30"	30"				2	FLUOR. ORANGE	BLACK	BLACK	6.25	12.50
W5-1	36"	36"				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
W8-1	30"	30"				2	FLUOR. ORANGE	BLACK	BLACK	6.25	12.50
W8-3	30"	30"				2	FLUOR. ORANGE	BLACK	BLACK	6.25	12.50
W8-8	30"	30"				2	FLUOR. ORANGE	BLACK	BLACK	6.25	12.50
W11-2	30"	30"				4	FLUOR. ORANGE	BLACK	BLACK	6.25	25.00
W13-1P	24"	24"				2	FLUOR. ORANGE	BLACK	BLACK	4.00	8.00
W16-7pL	24"	12"				4	FLUOR. ORANGE	BLACK	BLACK	2.00	8.00
W20-1 (AHEAD)	36"	36"				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
W20-4	36"	36"				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
W20-7	36"	36"				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
W20-7b	36"	36"				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
NOTE: FLUOR. = FLUORESCENT										TOTAL	401.00

NOTE:
FLUOR. = FLUORESCENT

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	71
PROJECT FILE NO.		607411	

TEMPORARY TRAFFIC
CONTROL PLANS



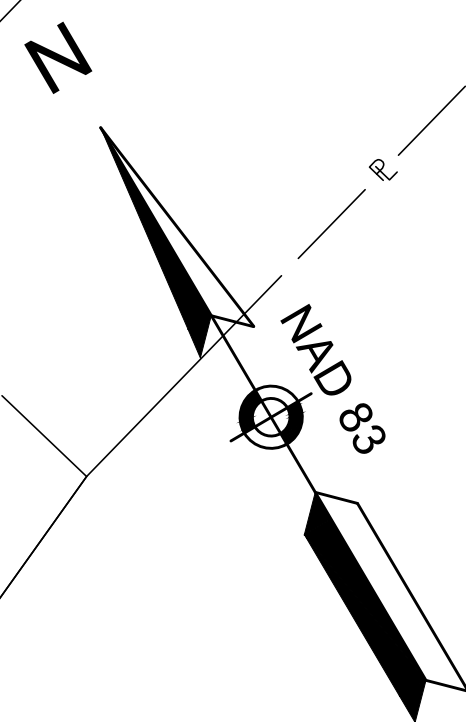
ADVANCE WARNING SIGN LOCATIONS

1" = 500'

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	71
PROJECT FILE NO.		607411	

LIGHTING PLANS



BEACH ROAD

WATER STREET

BEACH STREET EXT.

BEACH STREET

LAGOON POND ROAD

BEGIN PROJECT
STA. 10+32.00
MEET EXISTING
N165401.2775
E1612692.2385

PROP. 3" NON-METALLIC
CONDUIT FOR STREET
LIGHTING (TYP.)

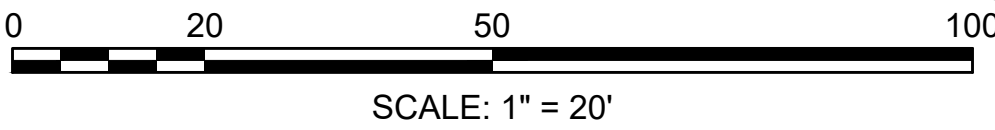
PROP. DECORATIVE STREET LIGHTING
W/ PROP. 2" CONDUIT,
TYPE NM TO PROP. ELECTRIC
HANDHOLE - SD2.022 (TYP.)

PROP. CONST. & PGL

PROP. 3" NON-METALLIC
CONDUIT FOR STREET
LIGHTING (TYP.)

PROP. DECORATIVE STREET
LIGHTING W/ PROP. 2"
CONDUIT, TYPE NM TO
PROP. ELECTRIC
HANDHOLE - SD2.022 (TYP.)

CONTINUED ON
SHEET 31



CONTINUED ON
SHEET 32

PROP. 3" NON-METALLIC
CONDUIT FOR STREET
LIGHTING (TYP.)

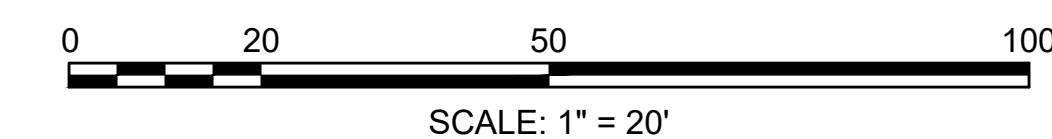
PROP. DECORATIVE STREET
LIGHTING W/ PROP. 2"
CONDUIT, TYPE NM TO
PROP. ELECTRIC
HANDHOLE - SD2.022 (TYP.)

PROP. DECORATIVE STREET
LIGHTING W/ PROP. 2" CONDUIT,
TYPE NM TO PROP. ELECTRIC
HANDHOLE - SD2.022 (TYP.)

PROP. 3" NON-METALLIC
CONDUIT FOR STREET
LIGHTING (TYP.)

PROP. 2-3" NON-METALLIC
CONDUIT FOR STREET
LIGHTING (TYP.)

PROP. HIGHWAY LIGHTING
LOAD CENTER ON CONC.
FOUNDATION



TISBURY
BEACH ROAD

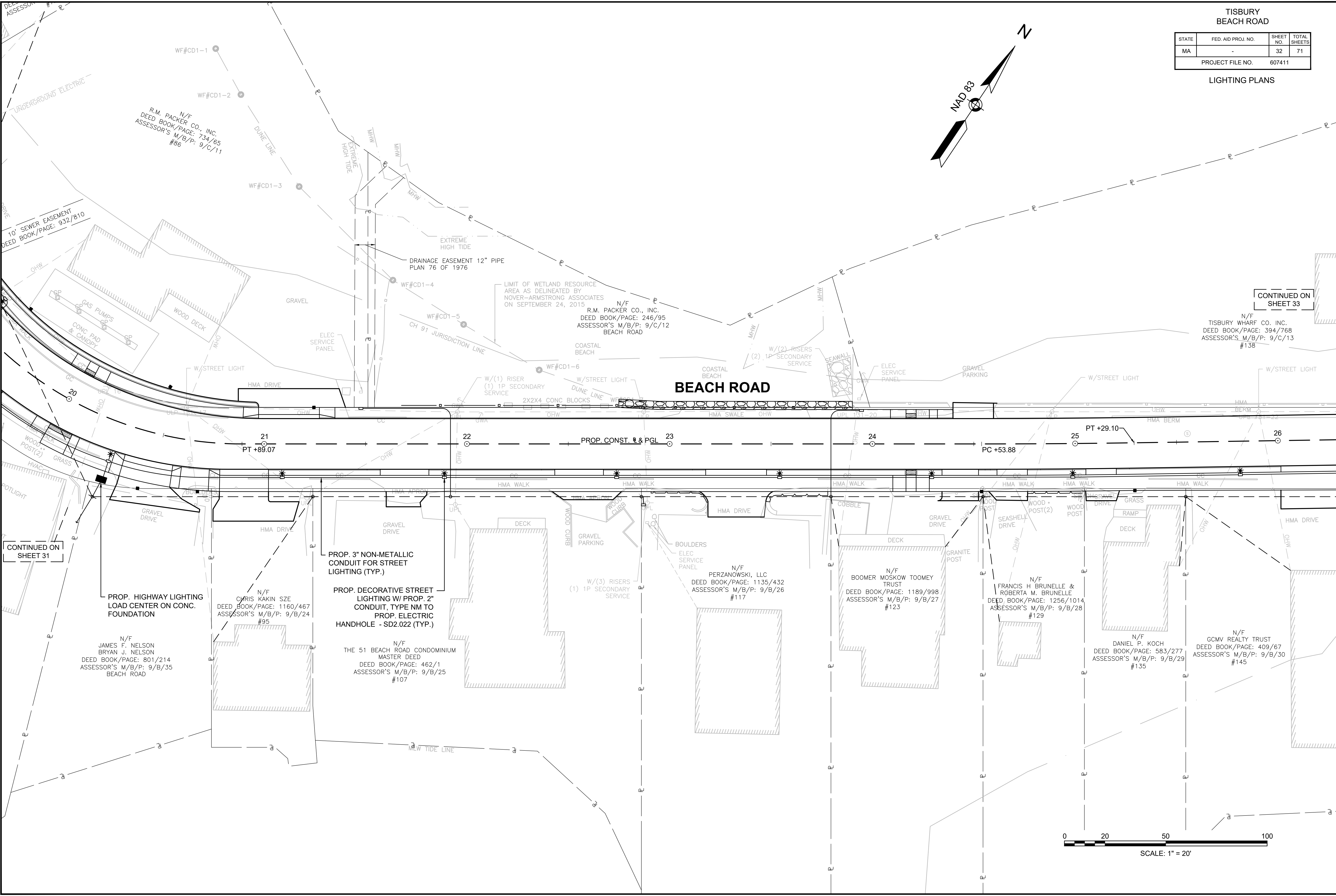
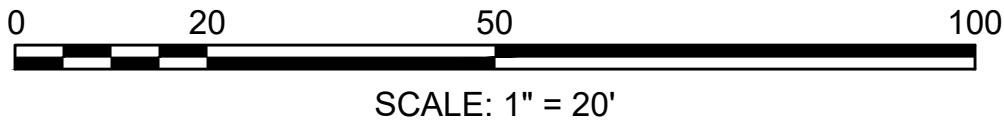
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	71
PROJECT FILE NO.		607411	

LIGHTING PLANS

CONTINUED ON
SHEET 33

N/F
TISBURY WHARF CO. INC.
DEED BOOK/PAGE: 394/768
ASSESSOR'S M/B/P: 9/C/13
#138

BEACH ROAD



CONTINUED ON
SHEET 31

PROP. HIGHWAY LIGHTING
LOAD CENTER ON CONC.
FOUNDATION

N/F
JAMES F. NELSON
BRYAN J. NELSON
DEED BOOK/PAGE: 801/214
ASSESSOR'S M/B/P: 9/B/35
BEACH ROAD

N/F
CHRIS KAKIN, SZE
DEED BOOK/PAGE: 1160/467
ASSESSOR'S M/B/P: 9/B/24
#95

PROP. DECORATIVE STREET
LIGHTING W/ PROP. 2"
CONDUIT, TYPE NM TO
PROP. ELECTRIC
HANDHOLE - SD2.022 (TYP.)

N/F
THE 51 BEACH ROAD CONDOMINIUM
MASTER DEED
DEED BOOK/PAGE: 462/1
ASSESSOR'S M/B/P: 9/B/25
#107

W/(3) RISERS
(1) 1P SECONDARY
SERVICE

N/F
PERZANOWSKI, LLC
DEED BOOK/PAGE: 1135/432
ASSESSOR'S M/B/P: 9/B/26
#117

N/F
BOOMER MOSKOW TOOMEY
TRUST
DEED BOOK/PAGE: 1189/998
ASSESSOR'S M/B/P: 9/B/27
#123

N/F
FRANCIS H. BRUNELLE &
ROBERTA M. BRUNELLE
DEED BOOK/PAGE: 1256/1014
ASSESSOR'S M/B/P: 9/B/28
#129

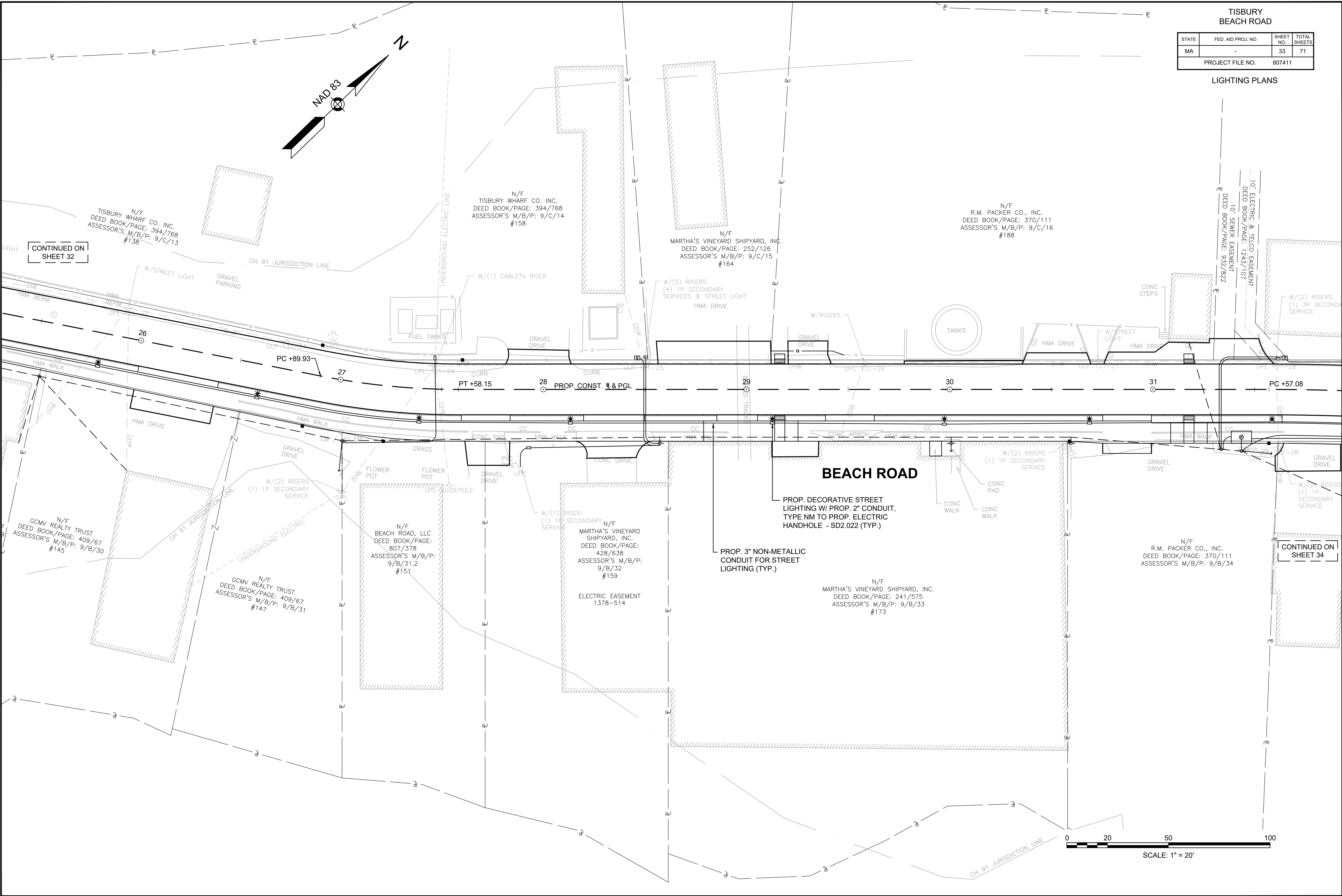
N/F
DANIEL P. KOCH
DEED BOOK/PAGE: 583/277
ASSESSOR'S M/B/P: 9/B/29
#135

N/F
GCMV REALTY TRUST
DEED BOOK/PAGE: 409/67
ASSESSOR'S M/B/P: 9/B/30
#145

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	71
PROJECT FILE NO.		607411	

LIGHTING PLANS



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	71
PROJECT FILE NO.		607411	

607411 HD (SI) DWG Plotted on 1-Feb-2017 11:00 AM



GENERAL NOTE:

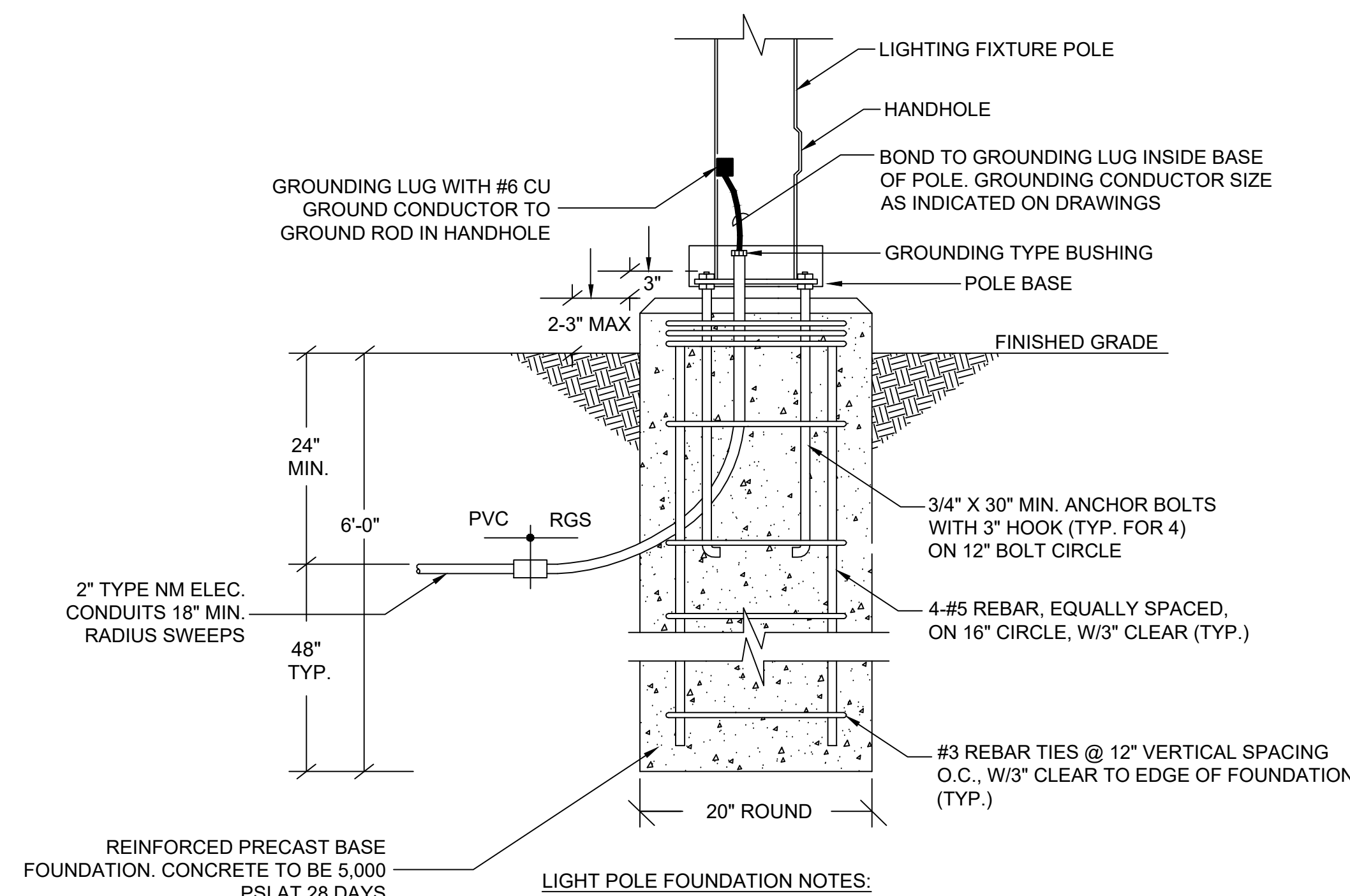
-
- Diagram illustrating the cross-section of a ground rod installation, showing the following components and dimensions:
- BONDING TAB WELDED TO BOTTOM CENTER OF COVER
 - 3' OF NO. 8 BONDING WIRE
 - BOND METAL FRAME & COVER TO GROUND ROD, W/NO. 8 INSULATED WIRE
 - 1/2"x20 BOLTING BOLT
 - INSTALL FLUSH WITH EXISTING GRADE
 - FINISHED GRADE
 - 4" CEM. CONC. SIDEWALK OR 3.5" HMA SHARED-USE PATH
 - 8" GRAVEL BORROW TYPE B
 - NATIVE BACKFILL 95% COMPACTION
 - 5/8"x8'-0" COPPERWELD GROUND ROD INSTALLED 18" BELOW GRADE
 - INSTALL #4 AWG BASE COPPER PIG TAIL AND GROUND TO LIGHT POLE STEEL
 - 3/4" CRUSHED STONE (M2.01.4) 6" MINIMUM
 - ELECTRIC HANDHOLE -SD2.022 (24"x13"x36") WITH BONDED COVER
 - 3" NM

HANDHOLE INSTALLATION NOTES:

1. HANDHOLE ORIENTATION TO BE SUCH THAT ALL SUPPLY DUCTS ENTER ON SAME SHORT SIDE.
2. SIZE AND NUMBER OF CONDUITS AS REQUIRED.
3. CONDUIT LOCATIONS SHOWN ARE TYPICAL.

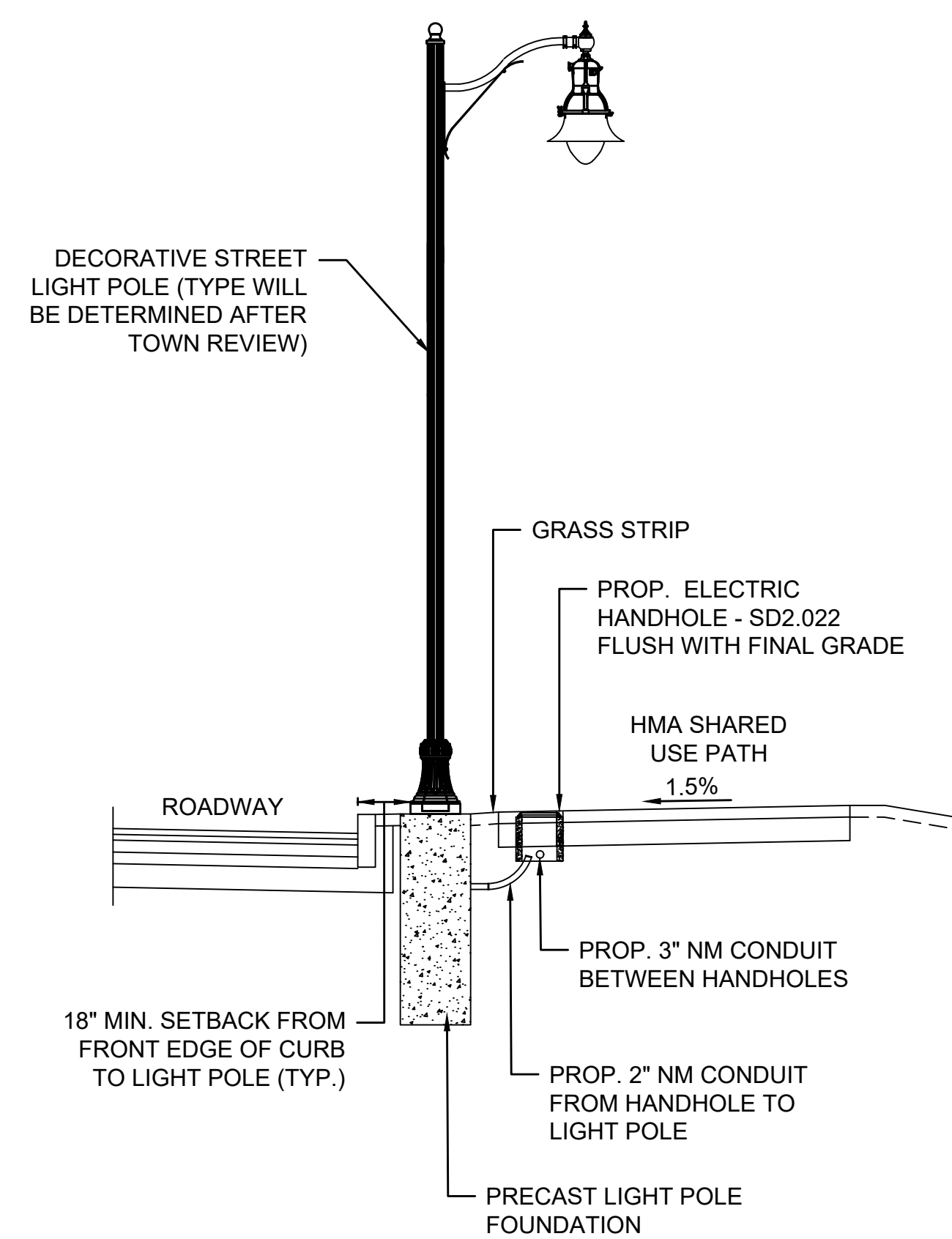
The diagram illustrates the foundation for an electrical cabinet. Key components and dimensions include:

- Dimensions:**
 - Overall width: DIMENSIONS PER CABINET MANUFACTURER
 - Overall height: DIMENSIONS PER CABINET MANUFACTURER
 - Concrete pad thickness: 12"
 - Concrete pad width: 12"
 - Concrete pad length: 12"
 - Concrete pad material: CONCRETE PAD 12" THICK, 3000 PSI CONCRETE
- Electrical Cabinet Enclosure:**
 - Label: ELEC. CABINET ENCLOSURE OUTLINE
 - Front panel: FRONT
 - Dimensions: 6" (width), 6" (height), 12" (depth)
- Grounding:**
 - Grounding rod: 5/8" X 8'-0" COPPER GROUND ROD (2 TOTAL) WITH APPROVED COMPRESSION CONNECTORS
 - Grounding wire: #1/0 AWG INSULATED COPPER WIRE
 - Grounding sleeve: 3/4" NM SLEEVE IN PAD FOR GROUND WIRES (LEAVE 6" SLACK)
 - Grounding conductor: #4 AWG INSULATED COPPER GROUND

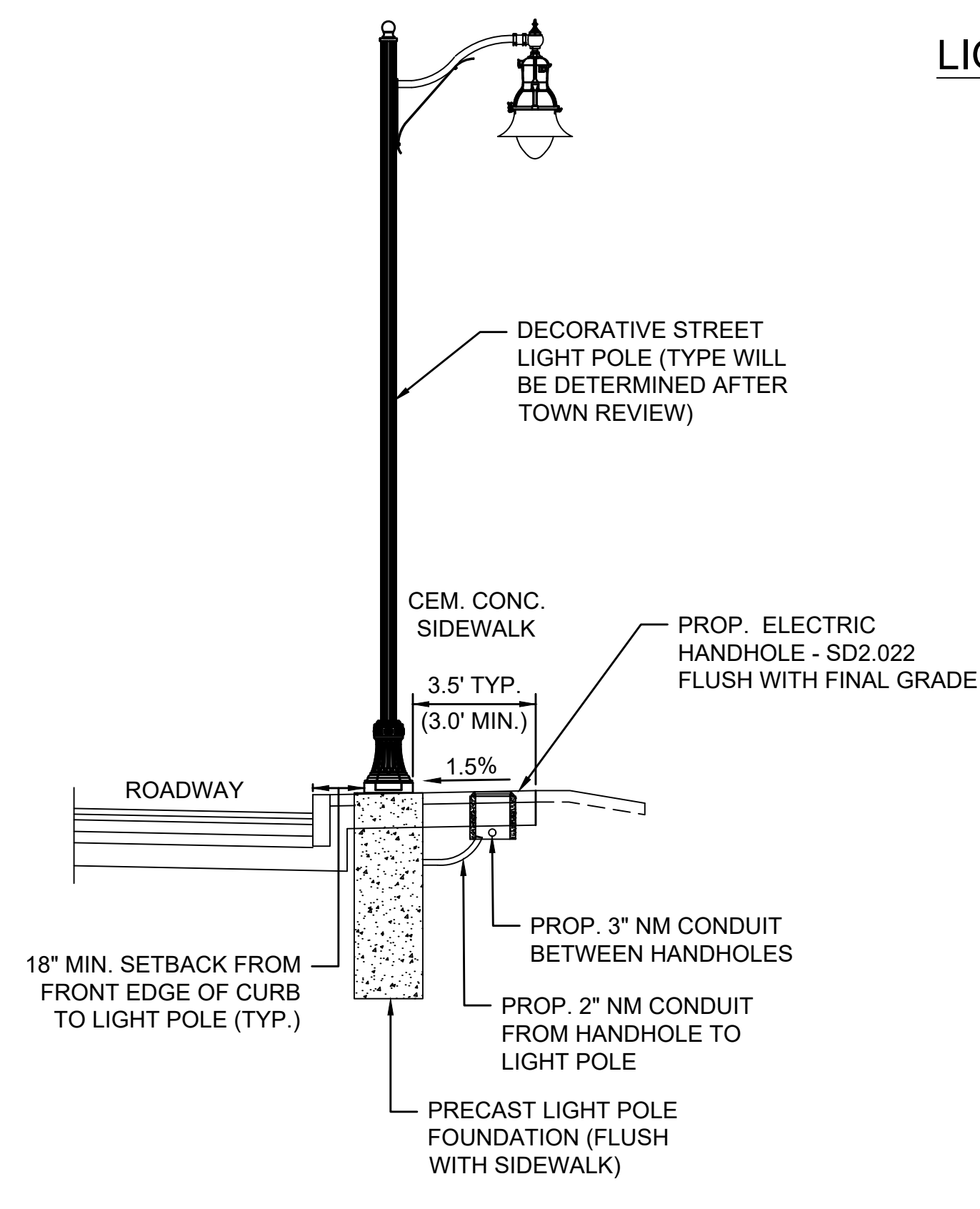


LIGHT POLE FOUNDATION NOTES:

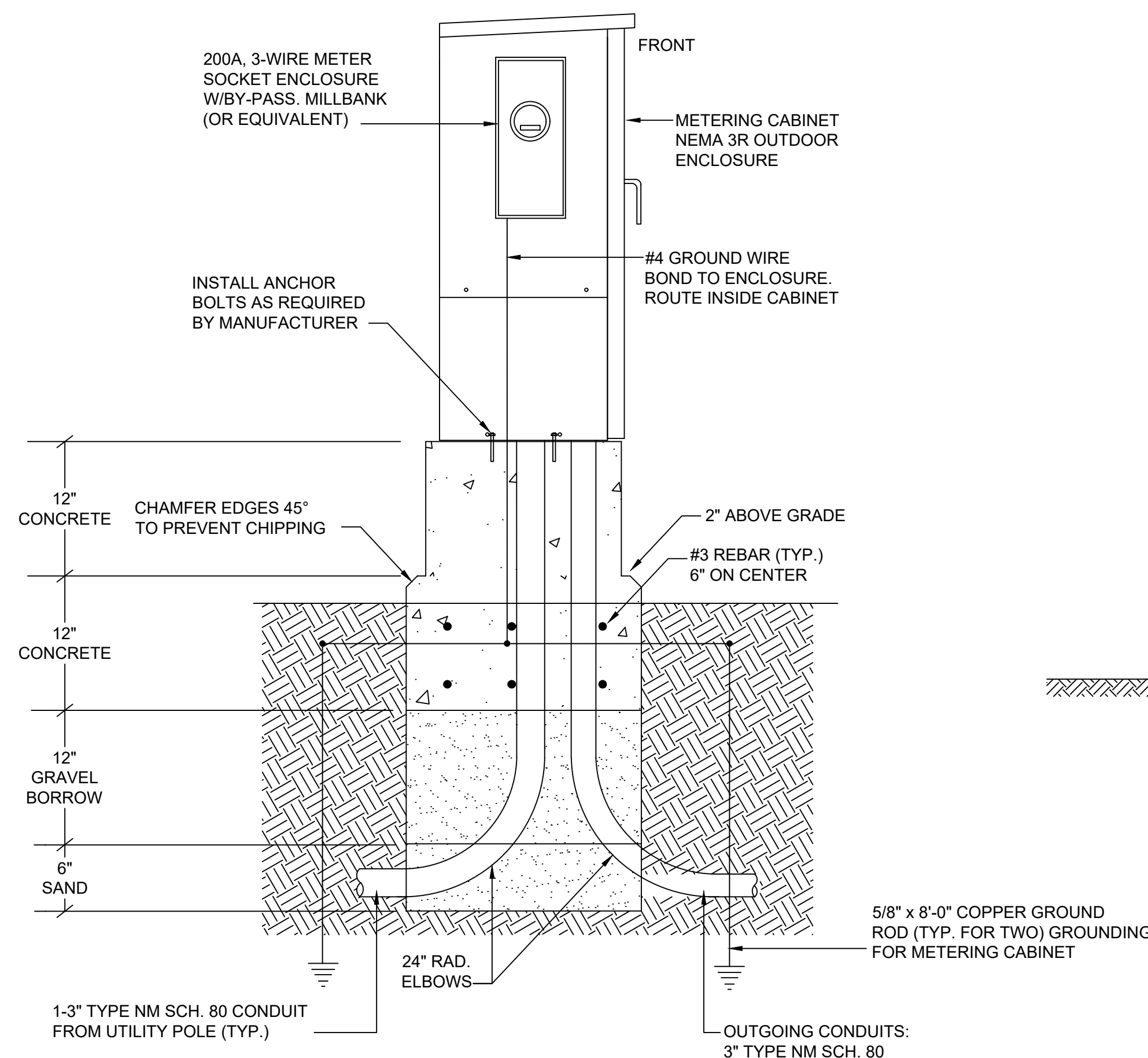
1. BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION. CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
2. PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL.
3. CONDUIT LOCATIONS SHOWN ARE TYPICAL.



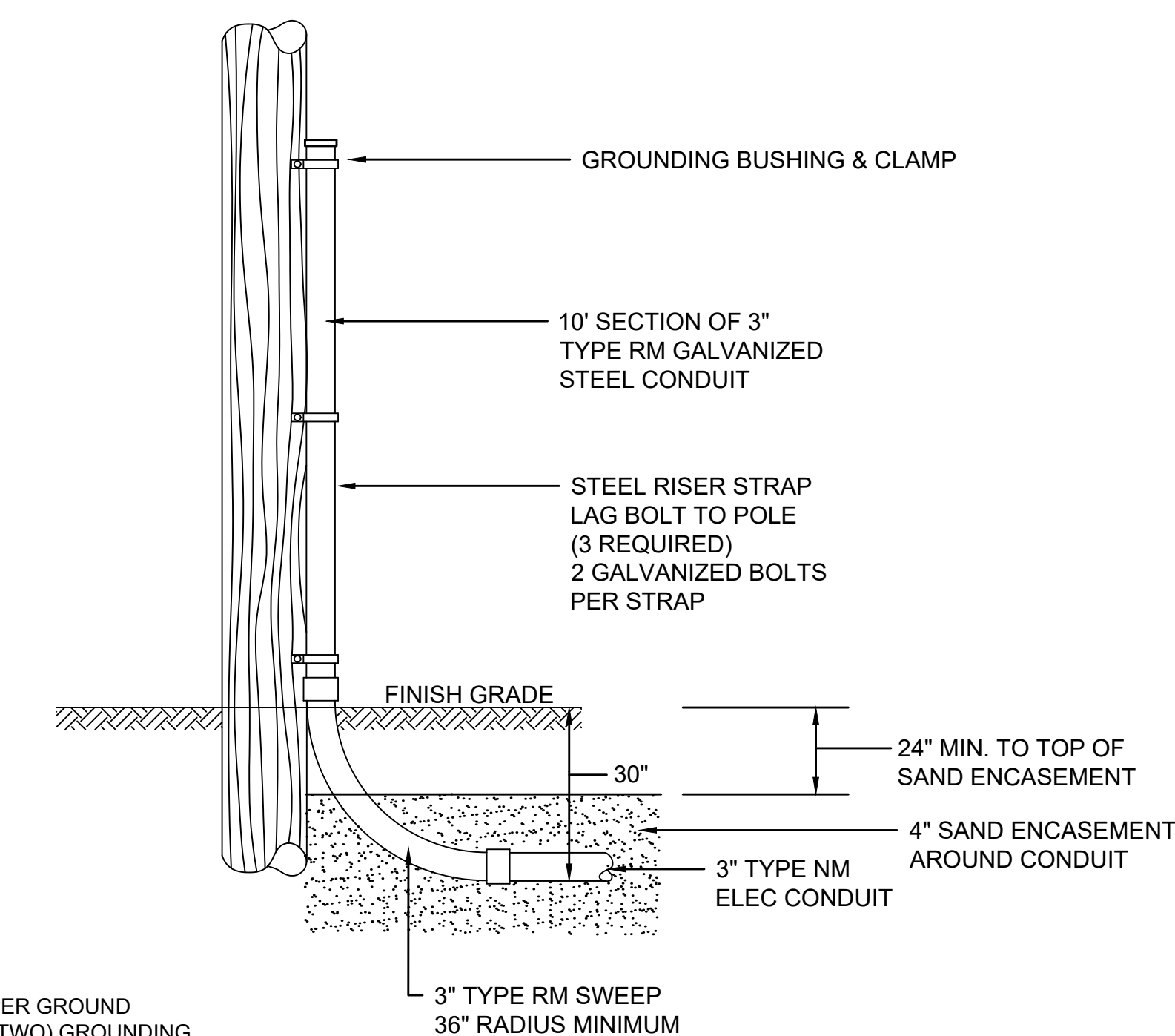
LIGHT POLE IN GRASS STRIP



LIGHT POLE IN SIDEWALK



LIGHTING LOAD CENTER DETAIL
NOT TO SCALE

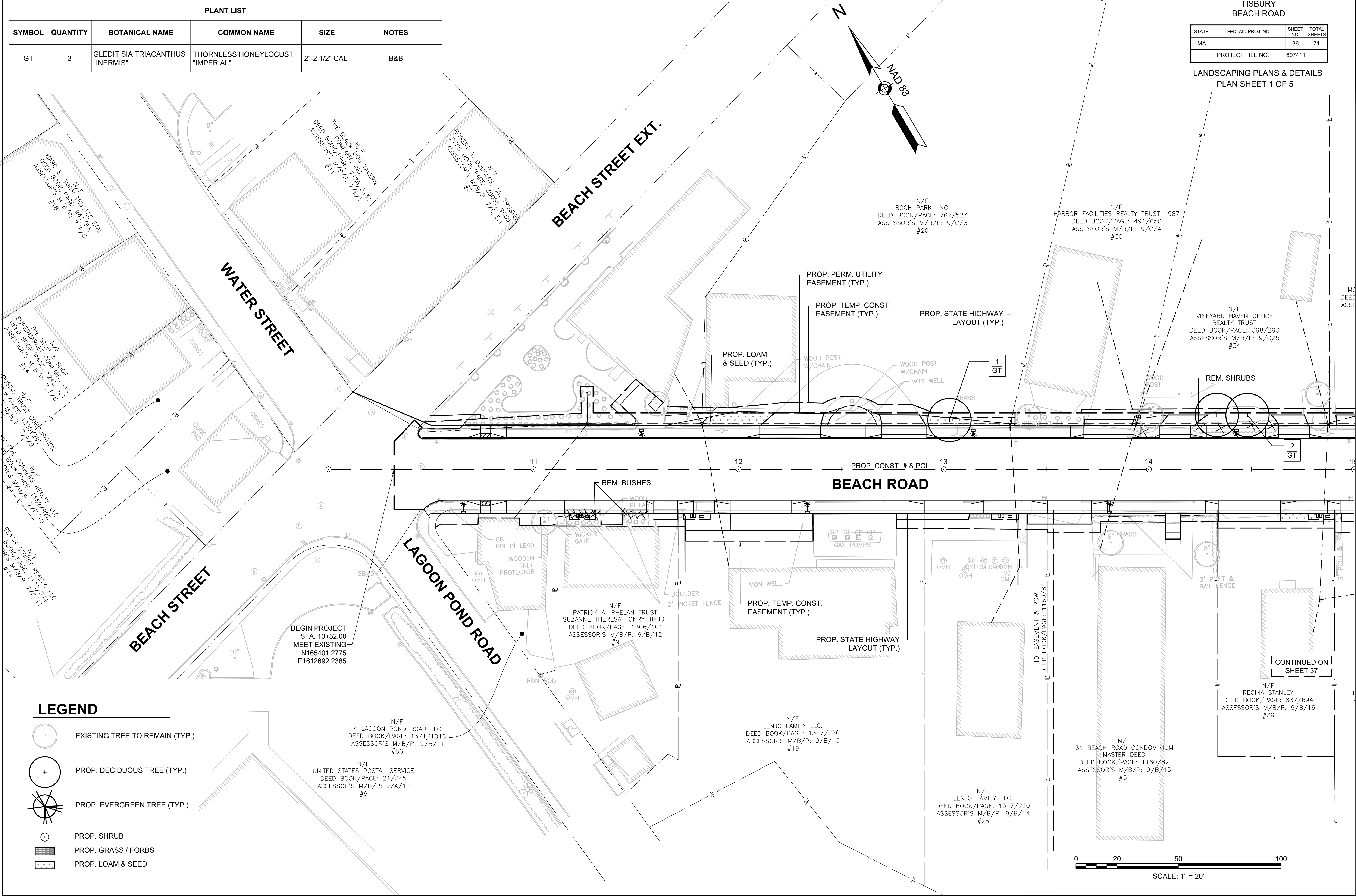


**TYPICAL UTILITY
RISER POLE DETAIL**
NOT TO SCALE

PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GT	3	GLEDTISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	71
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS
PLAN SHEET 1 OF 5



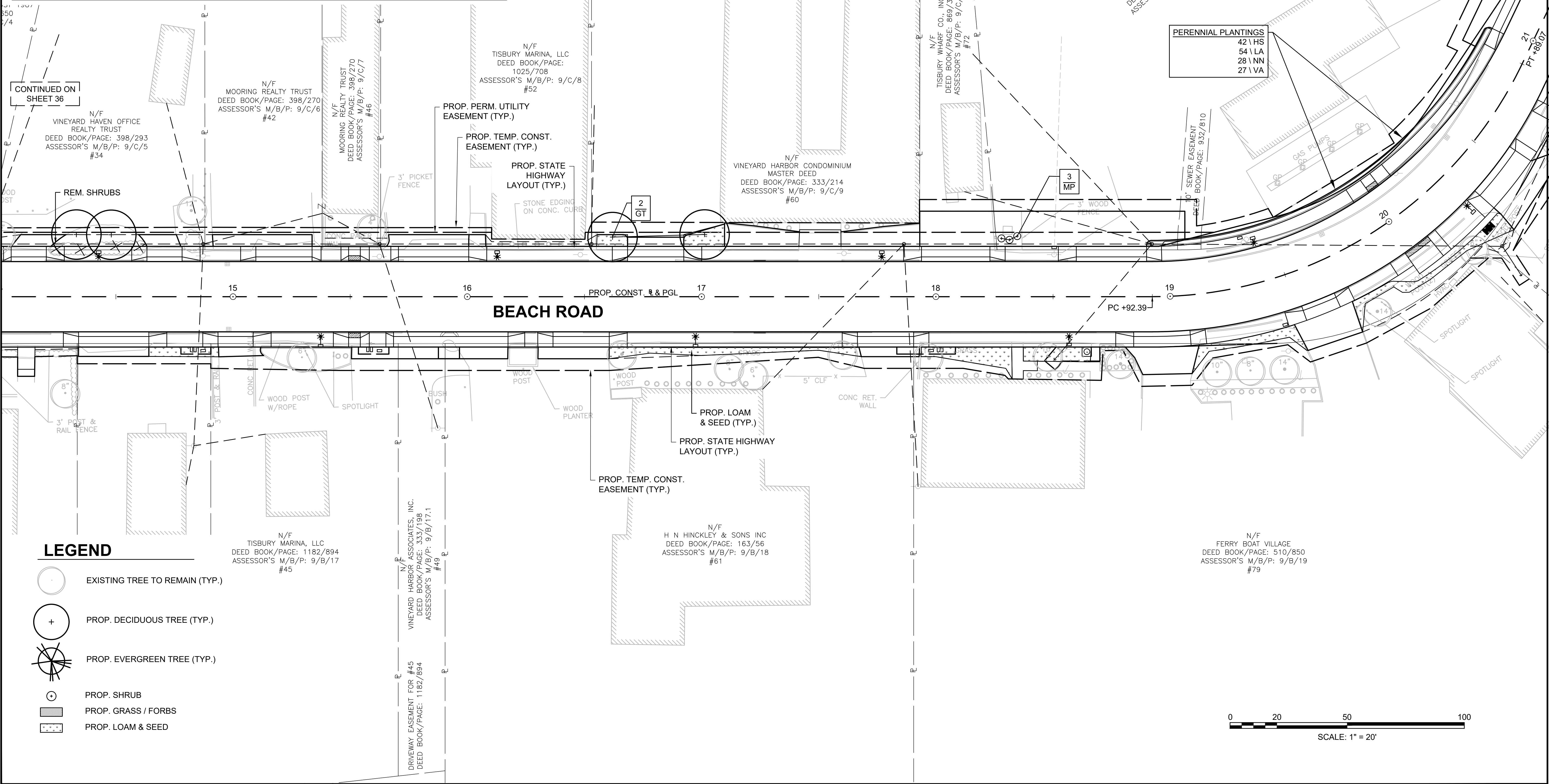
PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GT	2	GLEDTISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B
HS	42	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GALLON	
LA	54	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVENDER	1 GALLON	
MP	3	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	
NN	28	NIPPONANTHEMUM NIPPONICUM	MONTAUK DAISY	2 GALLON	
VA	27	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	6"-9" HT.	12" O.C STAGGERED

**TISBURY
BEACH ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	71
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS

PLAN SHEET 2 OF 5



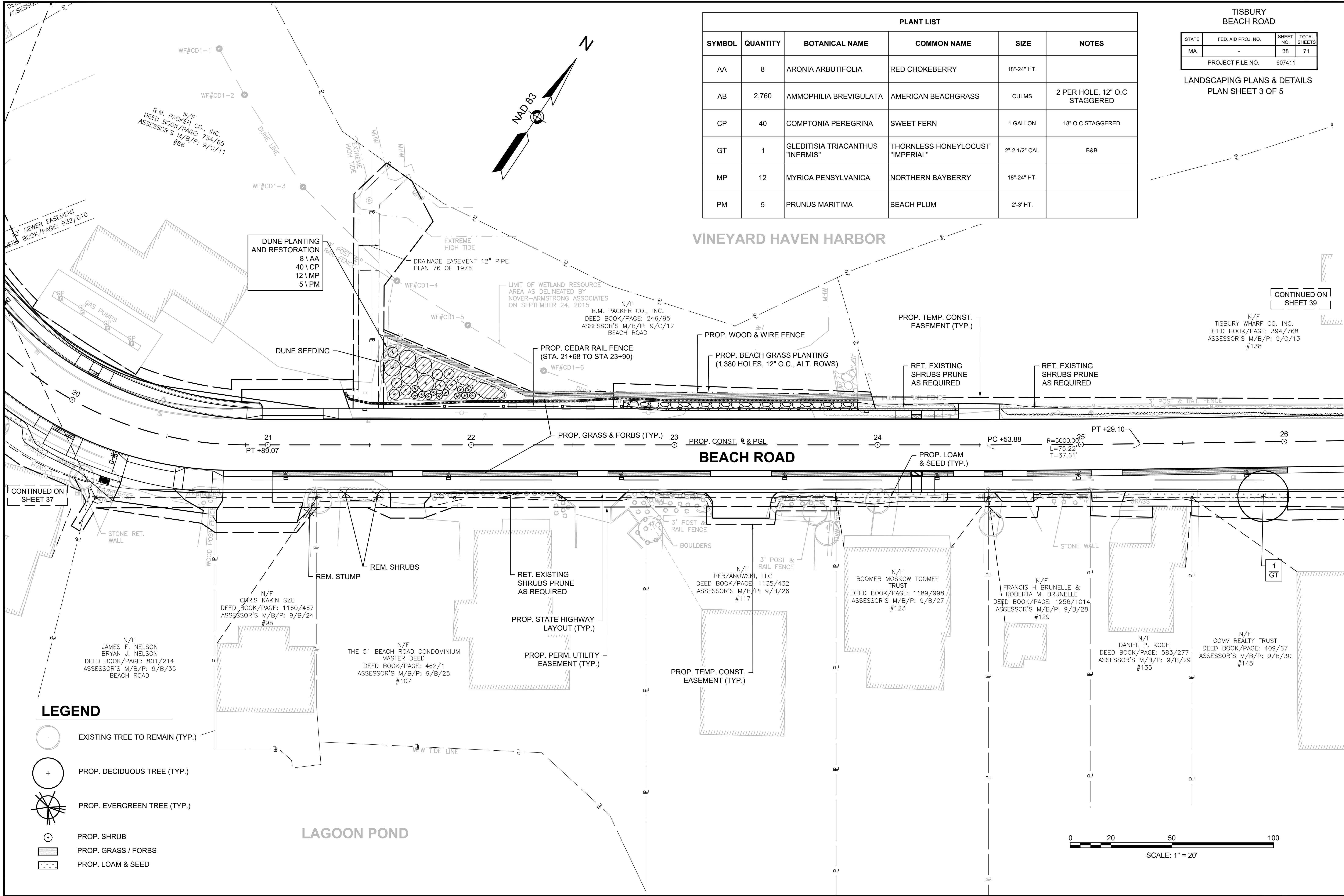
LEGEND

- EXISTING TREE TO REMAIN (TYP.)
- PROP. DECIDUOUS TREE (TYP.)
- PROP. EVERGREEN TREE (TYP.)
- PROP. SHRUB
- PROP. GRASS / FORBS
- PROP. LOAM & SEED

PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AA	8	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18"-24" HT.	
AB	2,760	AMMOPHILIA BREVIGULATA	AMERICAN BEACHGRASS	CULMS	2 PER HOLE, 12" O.C STAGGERED
CP	40	COMPTONIA PEREGRINA	SWEET FERN	1 GALLON	18" O.C STAGGERED
GT	1	GLEDITISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B
MP	12	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	
PM	5	PRUNUS MARITIMA	BEACH PLUM	2'-3' HT.	

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	71
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS
PLAN SHEET 3 OF 5

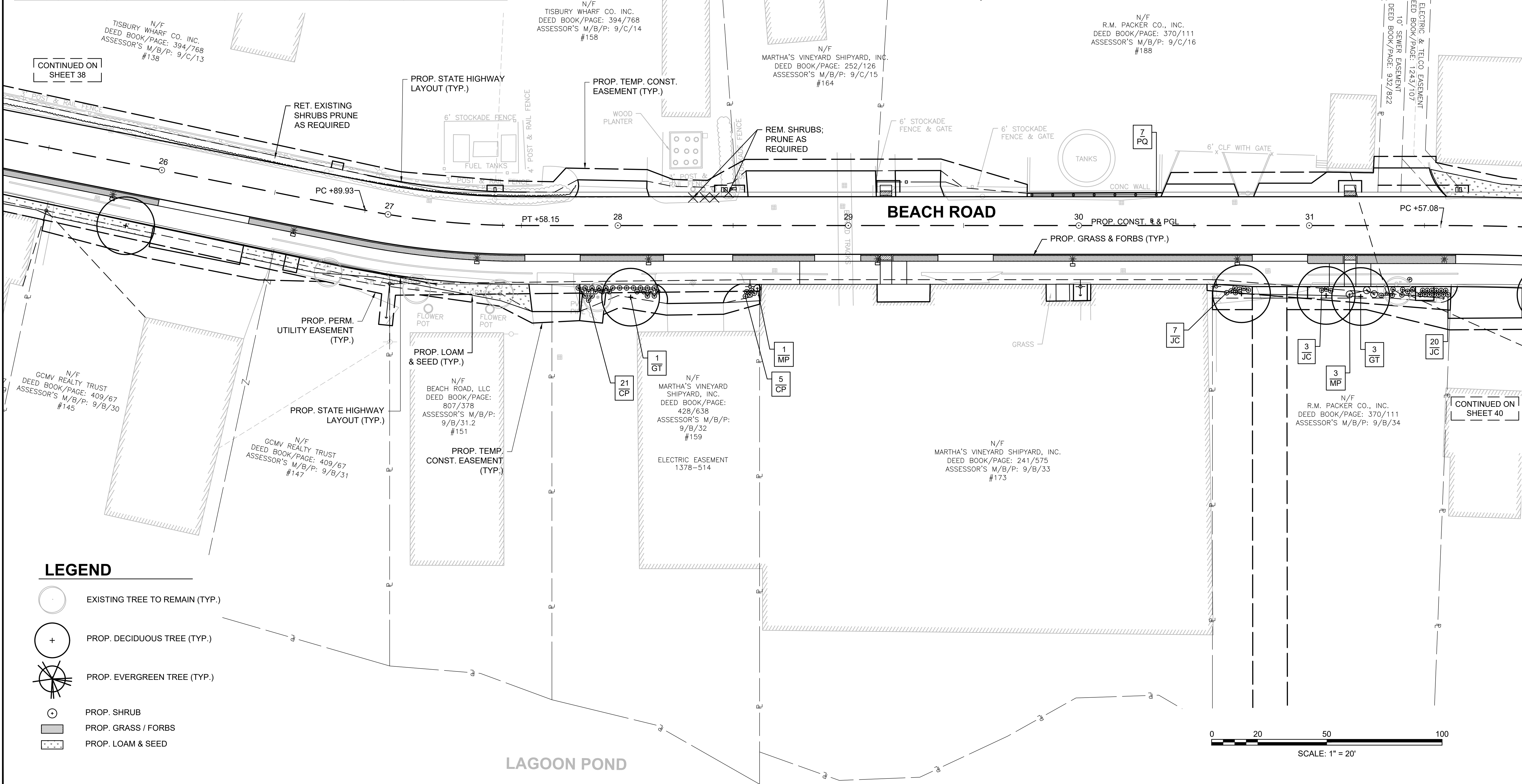


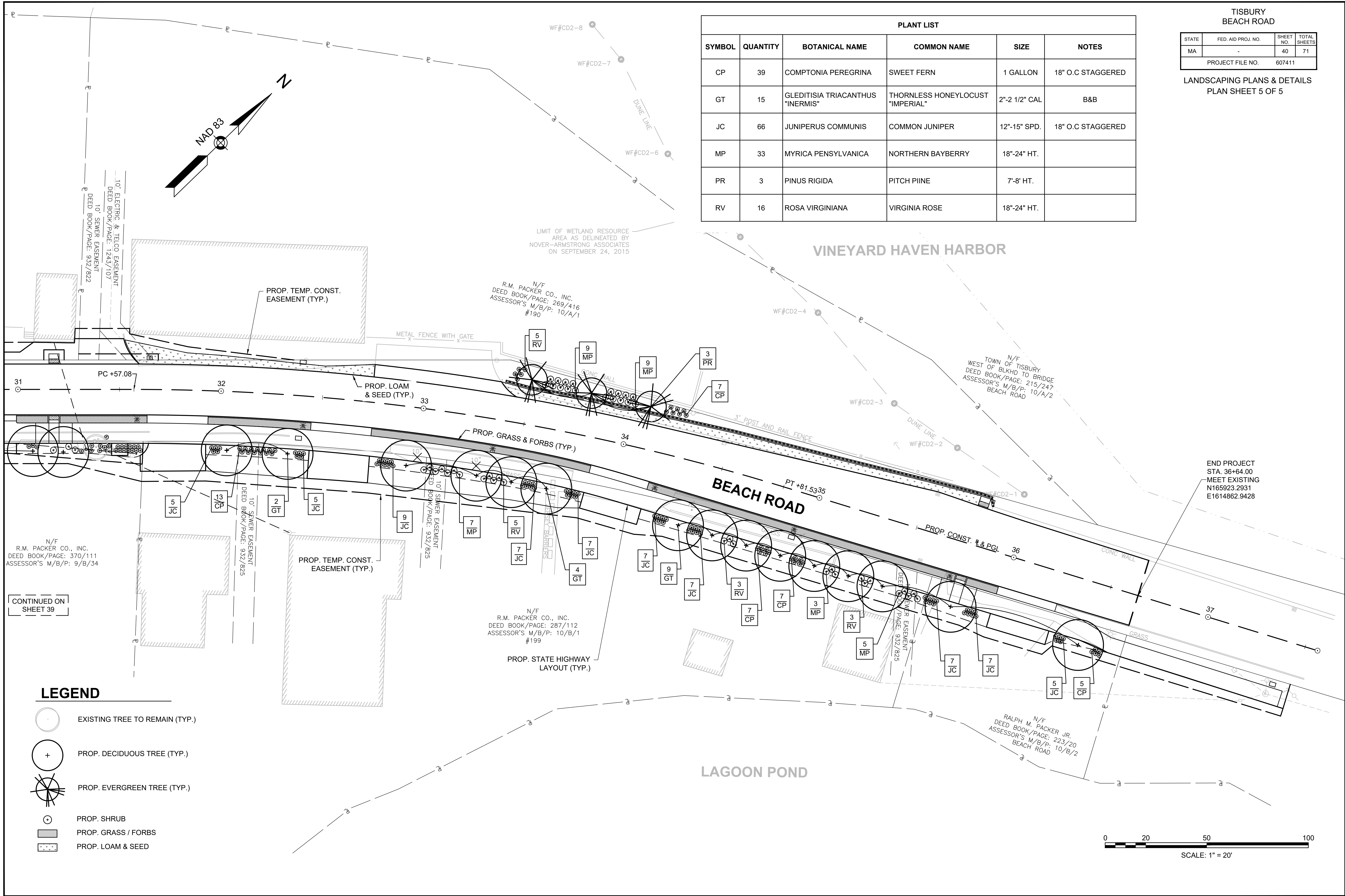
PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
CP	26	COMPTONIA PEREGRINA	SWEET FERN	1 GALLON	18" O.C STAGGERED
GT	4	GLEDTISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B
JC	30	JUNIPERUS COMMUNIS	COMMON JUNIPER		12"-15" SPD.
MP	4	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	
PQ	7	PARTHENOCEISSUS QUINQUEFOLIA	VIRGINA CREEPER	1 GALLON	BASE OF WALL

**TISBURY
BEACH ROAD**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	71
PROJECT FILE NO.		607411	

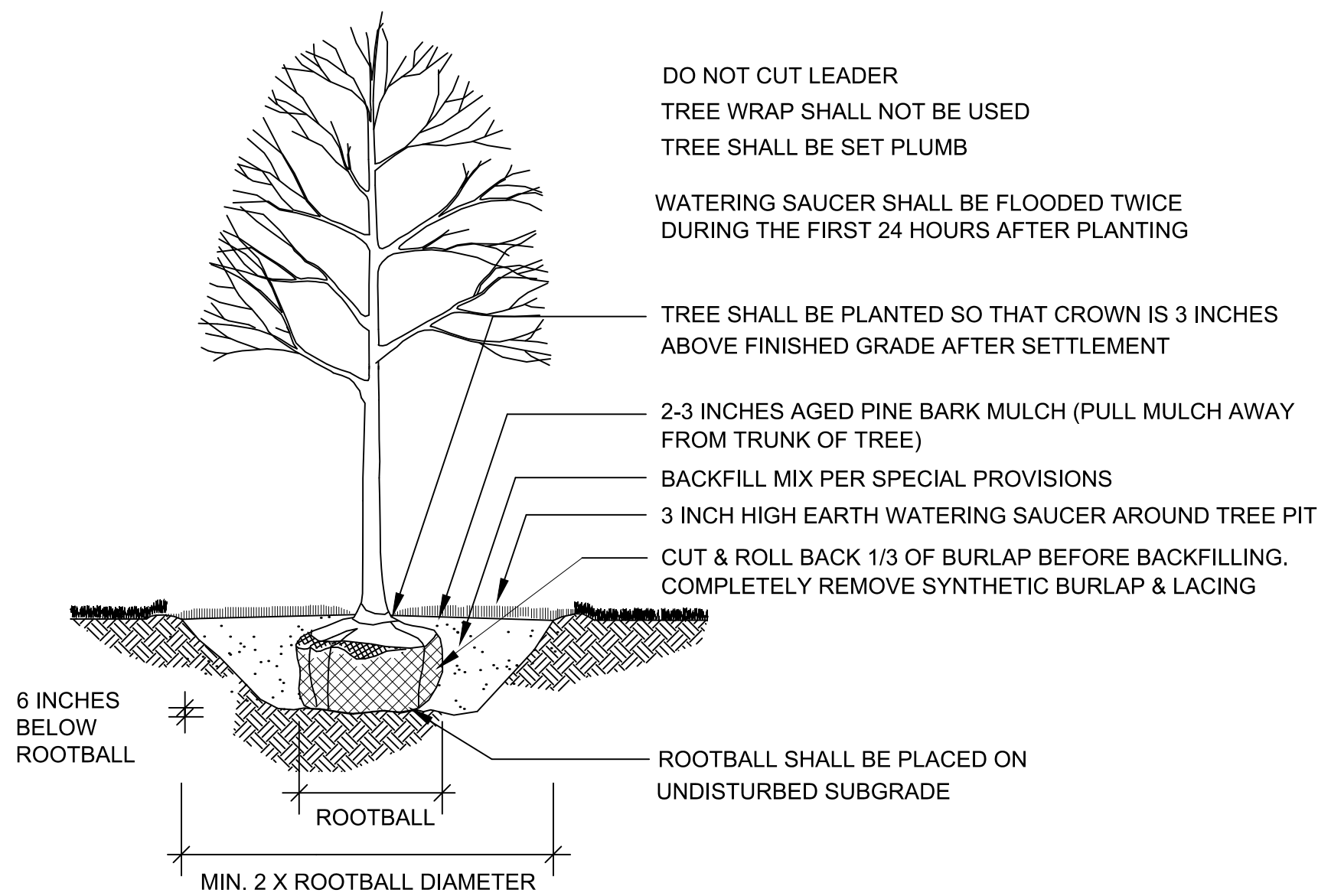
**LANDSCAPING PLANS & DETAILS
PLAN SHEET 4 OF 5**





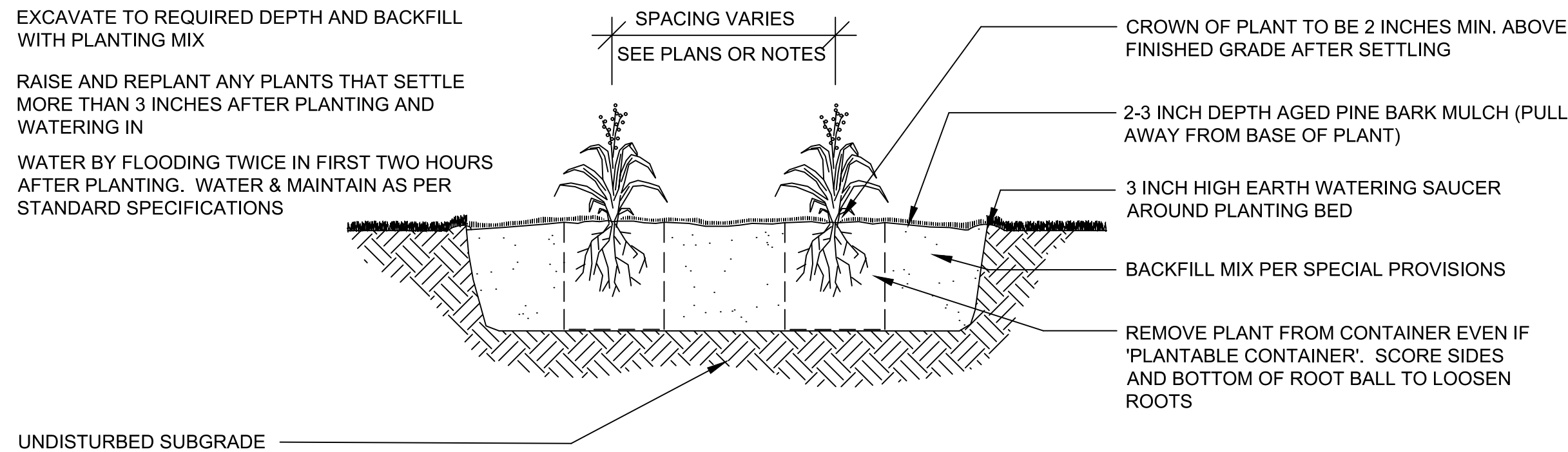
PLANT LIST										
QTY.	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5
		<u>TREES</u>								
25	GT	GLEDITISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2.5" CALIPER		3	2	1	4	15
3	PR	PINUS RIGIDA	PITCH PIINE	7'-8" HT.		-	-	-	-	3
		<u>SHRUBS</u>								
8	AA	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	18"-24" HT.		-	-	8	-	-
105	CP	COMPTONIA PEREGRINA	SWEET FERN	1 GALLON	18" O.C STAGGERED	-	-	40	26	39
96	JC	JUNIPERUS COMMUNIS	COMMON JUNIPER	12"-15" SPD.		-	-	-	30	66
52	MP	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.		-	3	12	4	33
5	PM	PRUNUS MARITIMA	BEACH PLUM	2'-3' HT.		-	-	5	-	-
16	RV	ROSA VIRGINIANA	VIRGINIA ROSE	18"-24" HT.		-	-	-	-	16
27	VA	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	6"-9" HT.	12" O.C STAGGERED	-	27	-	-	-
		<u>GROUNDCOVERS & PERENNIALS</u>								
42	HS	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GALLON	12" O.C STAGGERED	-	42	-	-	-
54	LA	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVENDER	1 GALLON	12" O.C STAGGERED	-	54	-	-	-
28	NN	NIPPONANTHEMUM NIPPONICUM	MONTAUK DAISY	2 GALLON		-	28	-	-	-
7	PQ	PARTHENOCISSUS QUINQUEFOLIA	VIRGINA CREEPER	1 GALLON	BASE OF WALL	-	-	-	7	-
		<u>COASTAL BANK PLUGS</u>								
2,760	AB	AMMOPHILIA BREVIGULATA	AMERICAN BEACHGRASS	CULMS	2 PER HOLE, 12" O.C STAGGERED	-	-	2,760	-	-

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	71
PROJECT FILE NO.		607411	



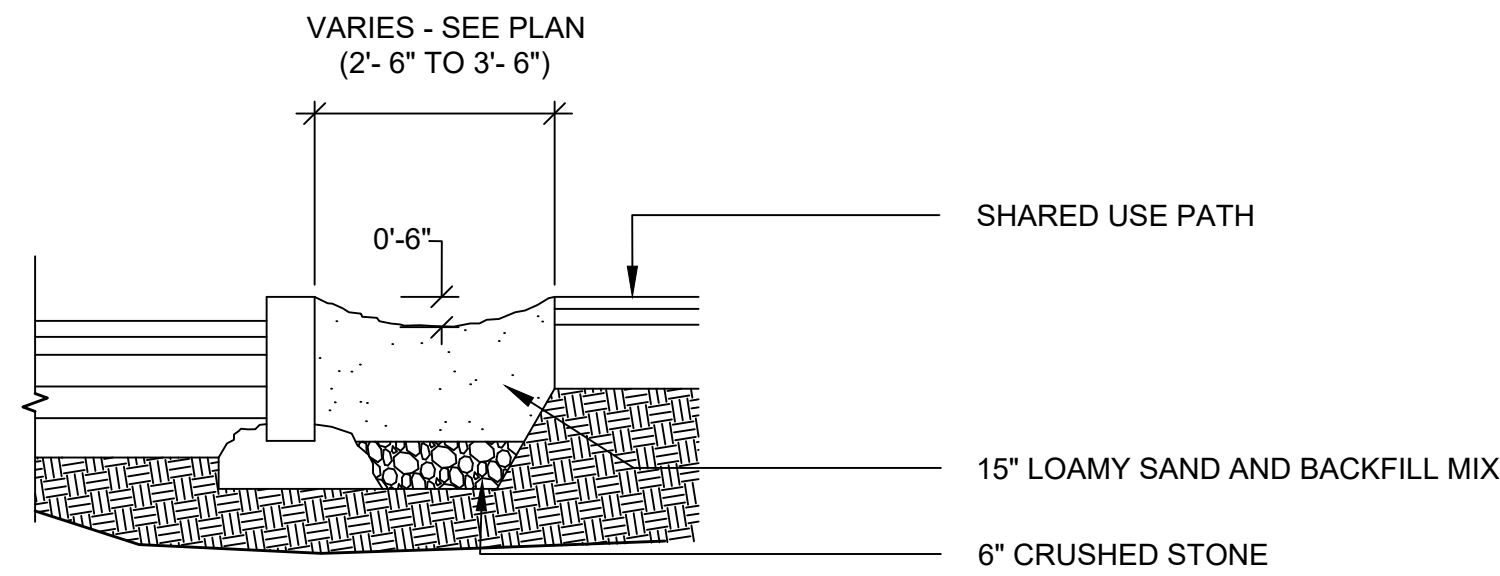
1 DECIDUOUS TREE PLANTING

NOT TO SCALE



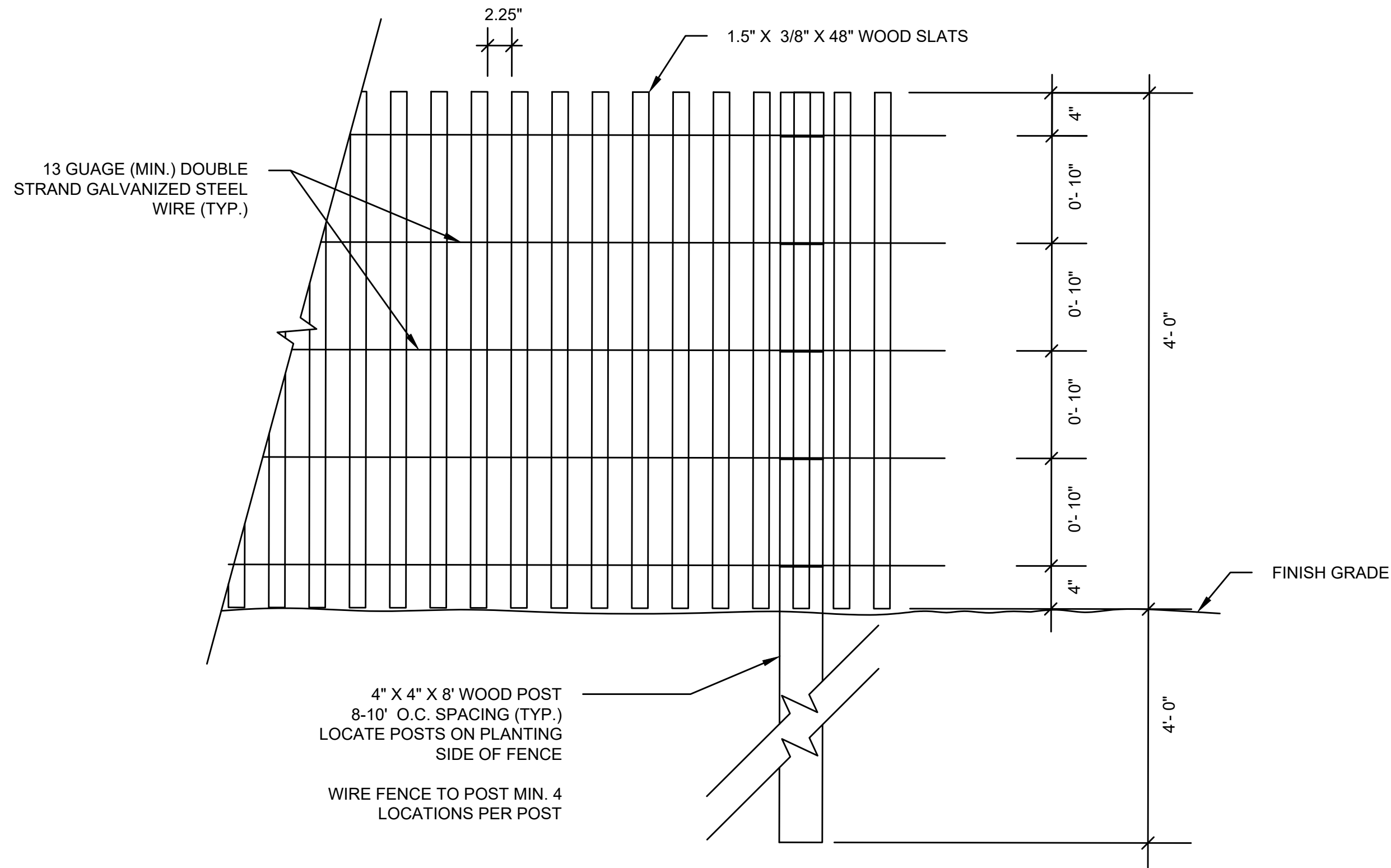
2 PERENNIAL PLANTING

NOT TO SCALE



3 GRASSES / FORBS STRIP

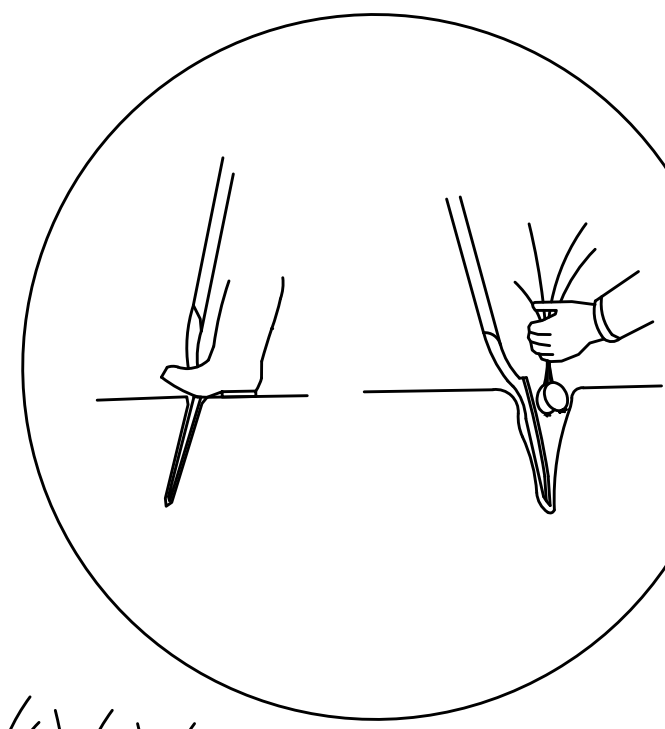
SCALE: 1/2"=1' 0"



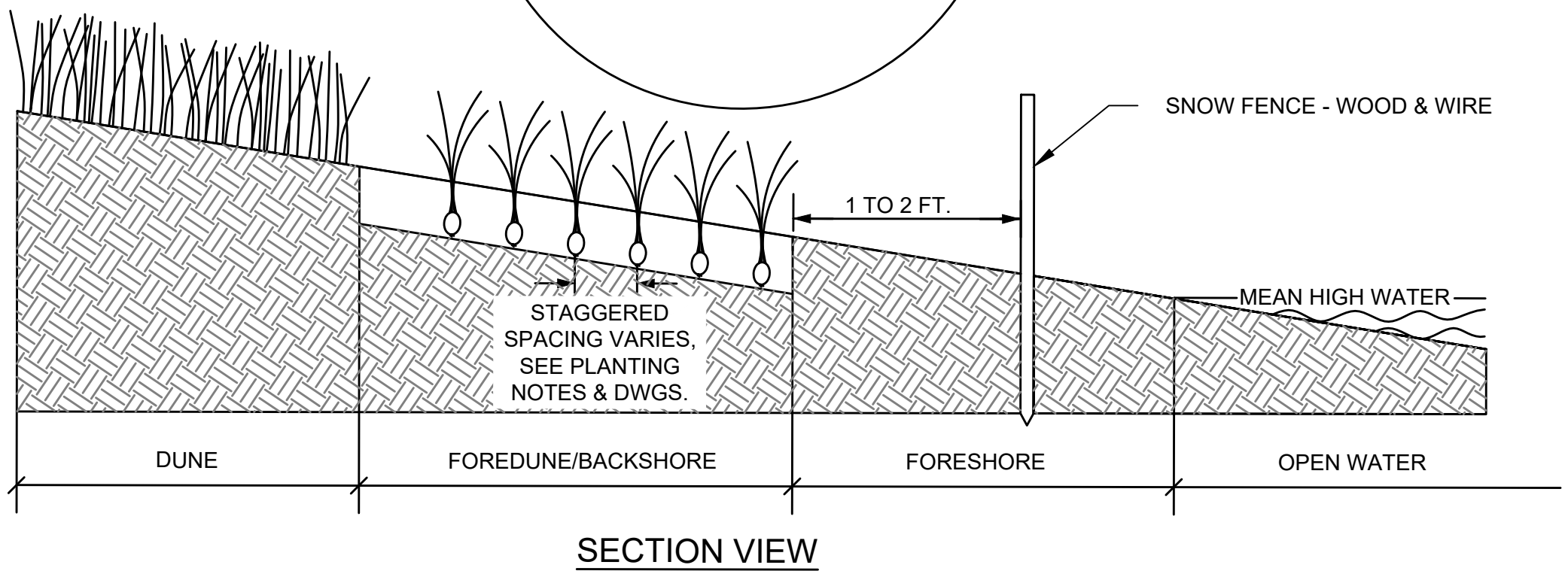
4 SNOW FENCE - WOOD & WIRE

NOT TO SCALE

PLANTING DETAIL



- NOTES:
- CULMS SHALL BE PLANTED WITH EITHER A "POGO" STYLE PLANTER OR A STRAIGHT BLADE SHOVEL.
 - HOLES SHALL BE 8"-10" DEEP TO ALLOW THE LIVING NODE TO REACH DEEPLY INTO THE SAND.
 - TWO CULMS SHALL BE PLACED IN EACH HOLE.
 - SLIDE THE PLANT DOWN THE BLADE WITH THE BLADE IN THE GROUND. PUSH THE RHIZOMES DOWN INTO THE HOLE AS SHOVEL IS LIFTED.
 - HEEL-IN EACH BUNDLE USING THE FOOT OR PALM OF HAND. CHECK FOR FIRMNESS. PLANTS SHOULD WITHSTAND A GENTLE PULL.
 - APPLY FERTILIZATION AS PER SPECIFICATION.



SECTION VIEW

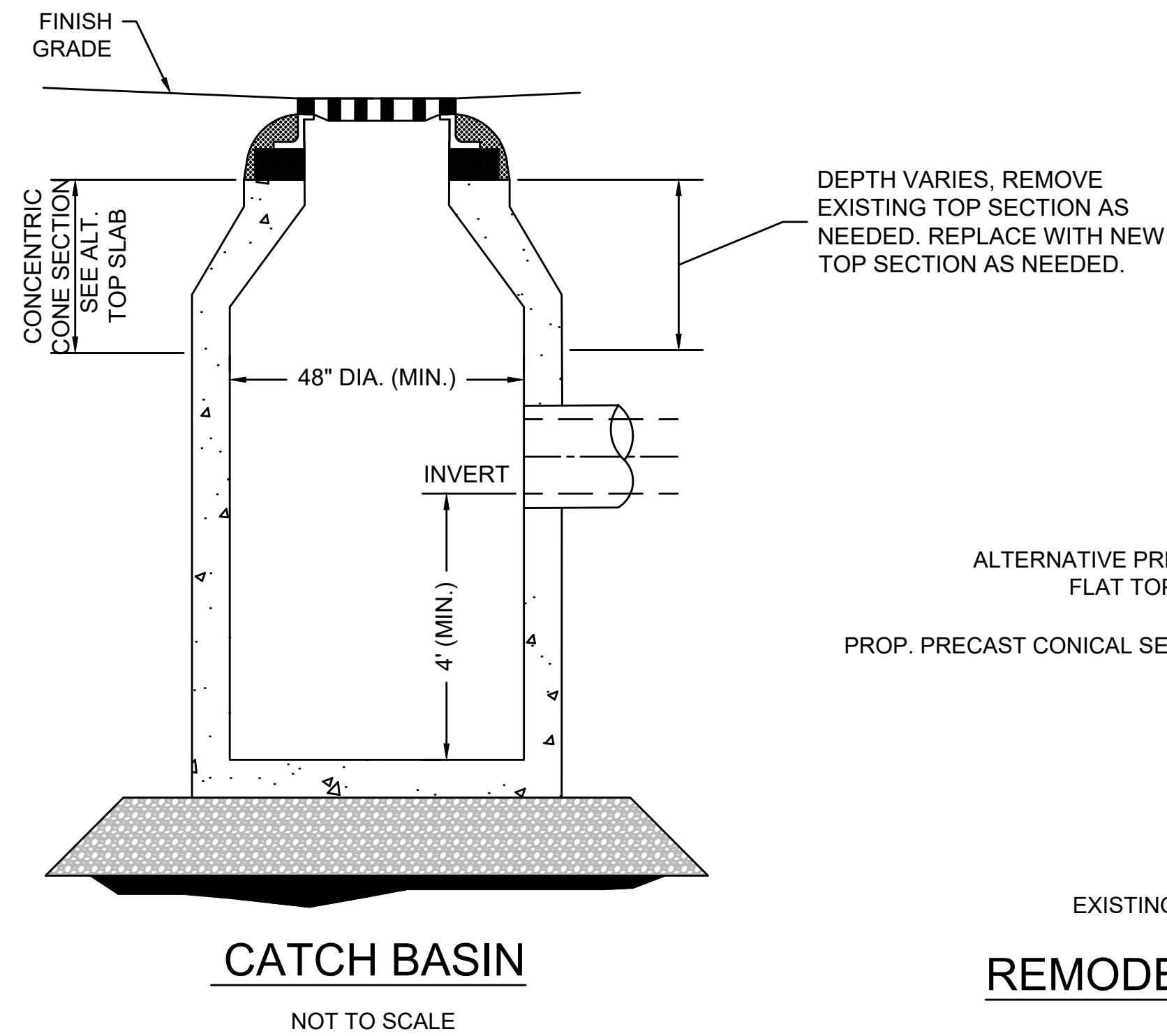
5 CULM PLANTING

NOT TO SCALE



CONSTRUCTION DETAILS

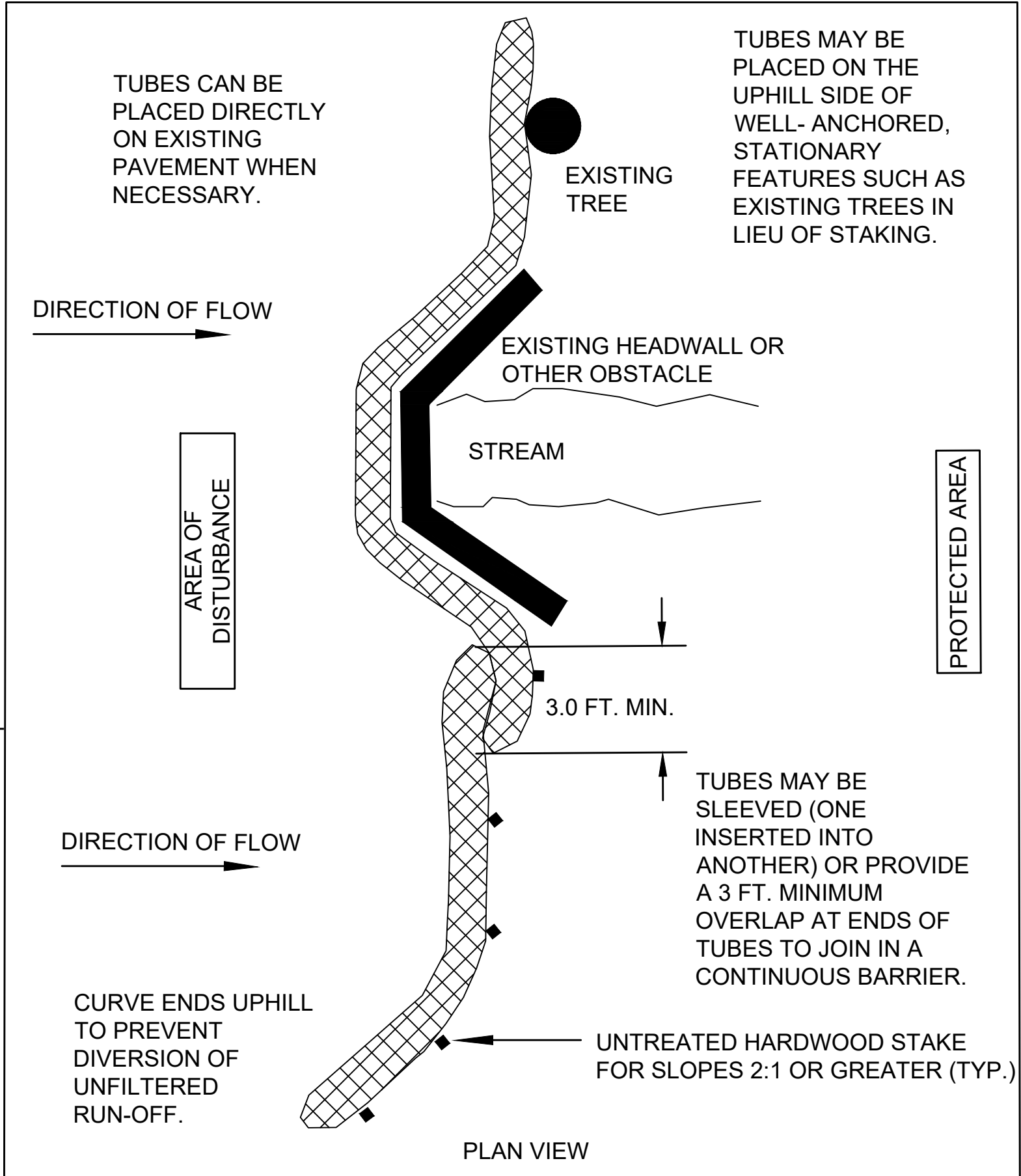
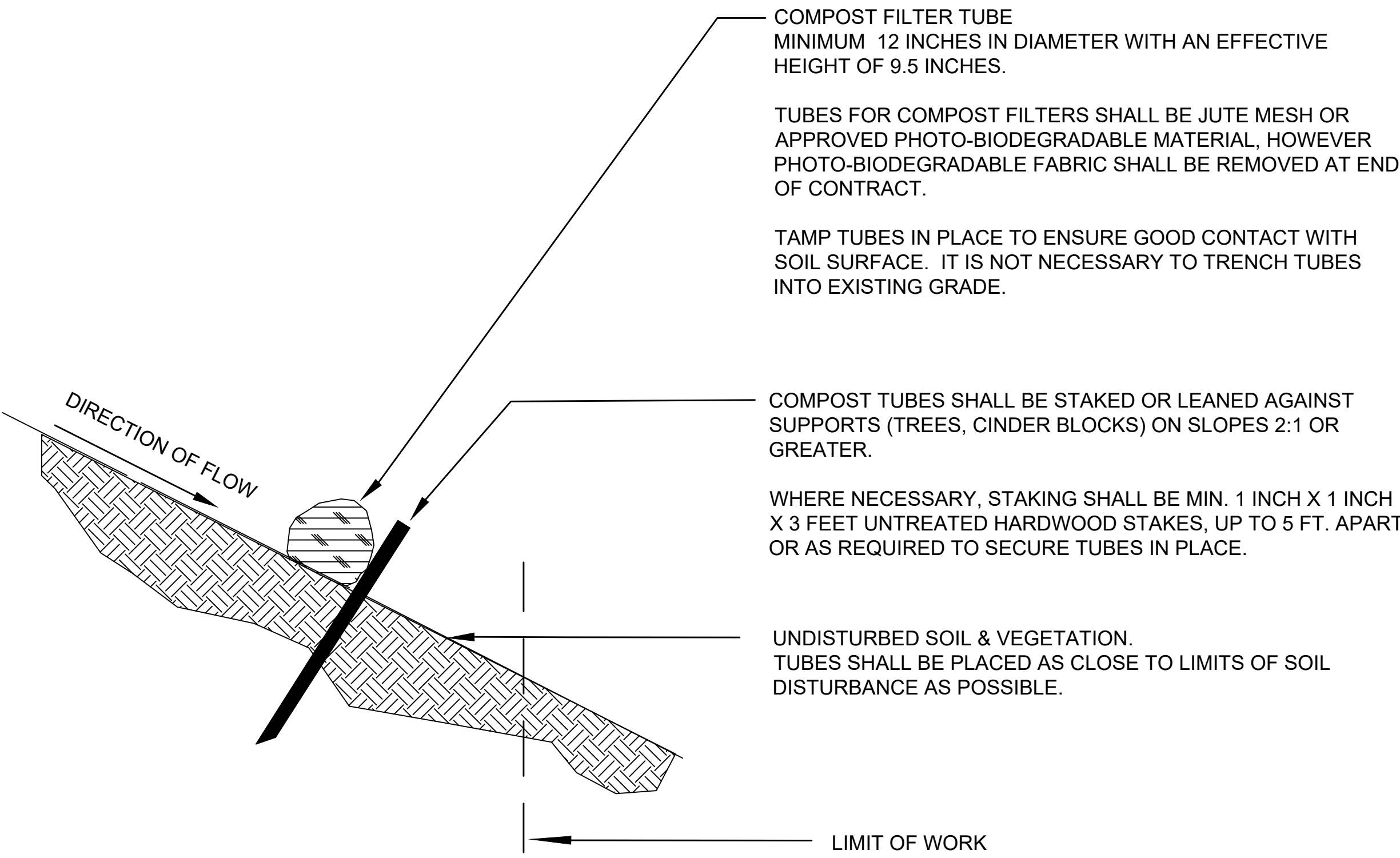
607411_HD (CD).DWG Plotted on 1-Feb-2017 11:01 AM



- 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.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	44	71
PROJECT FILE NO.		607411	

CONSTRUCTION DETAILS

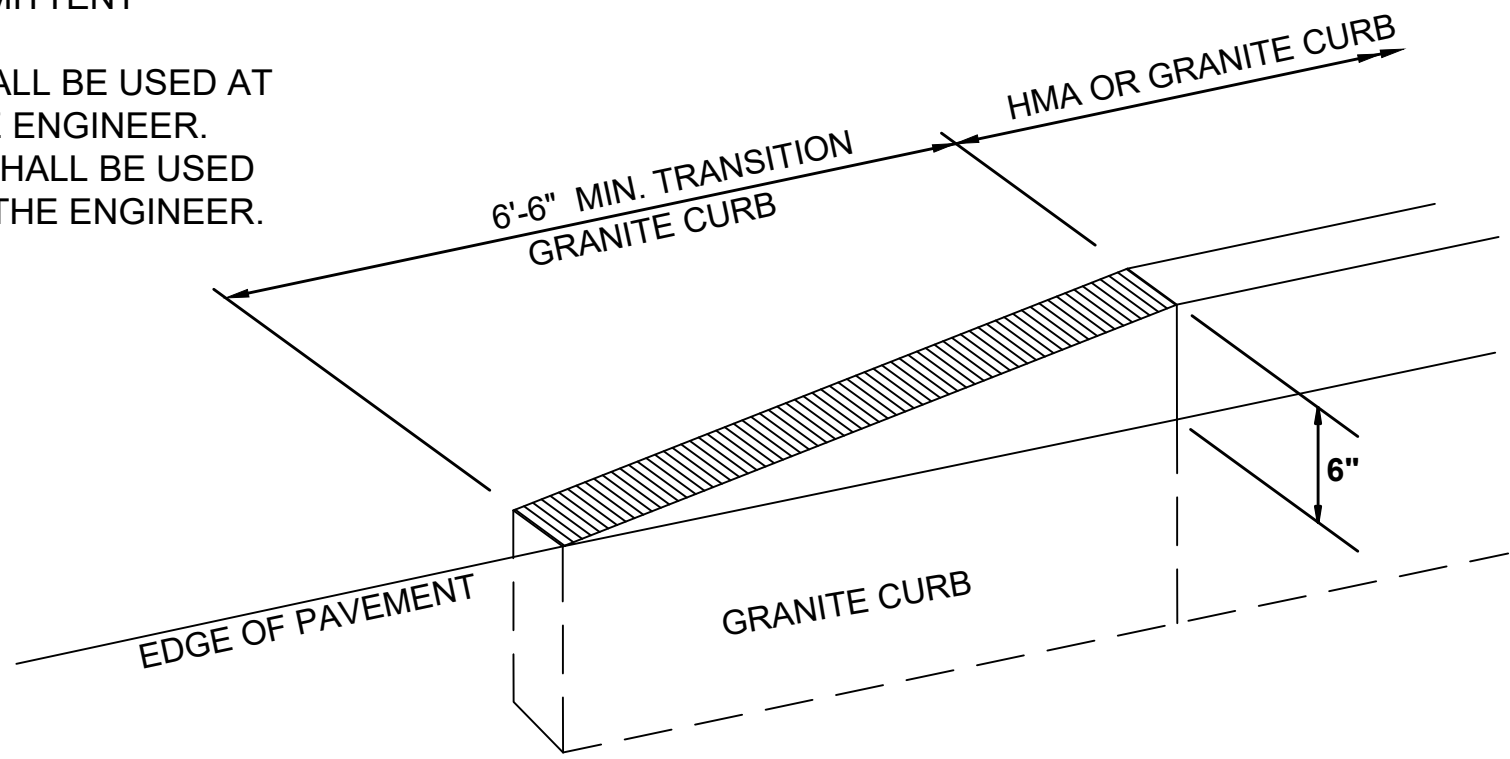


SINGLE COMPOST FILTER TUBE DETAIL

NOT TO SCALE

GENERAL NOTES:

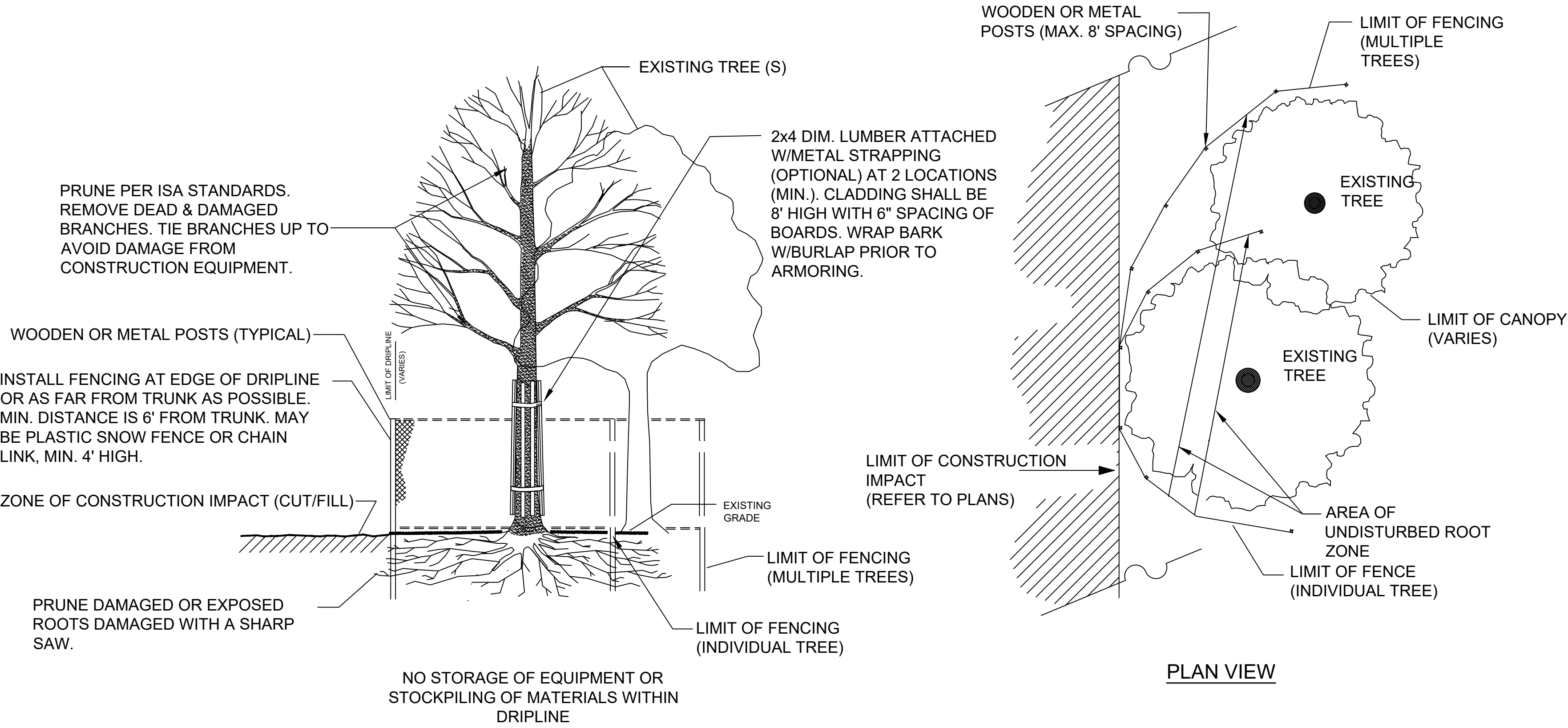
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.



CURB TRANSITION DETAIL

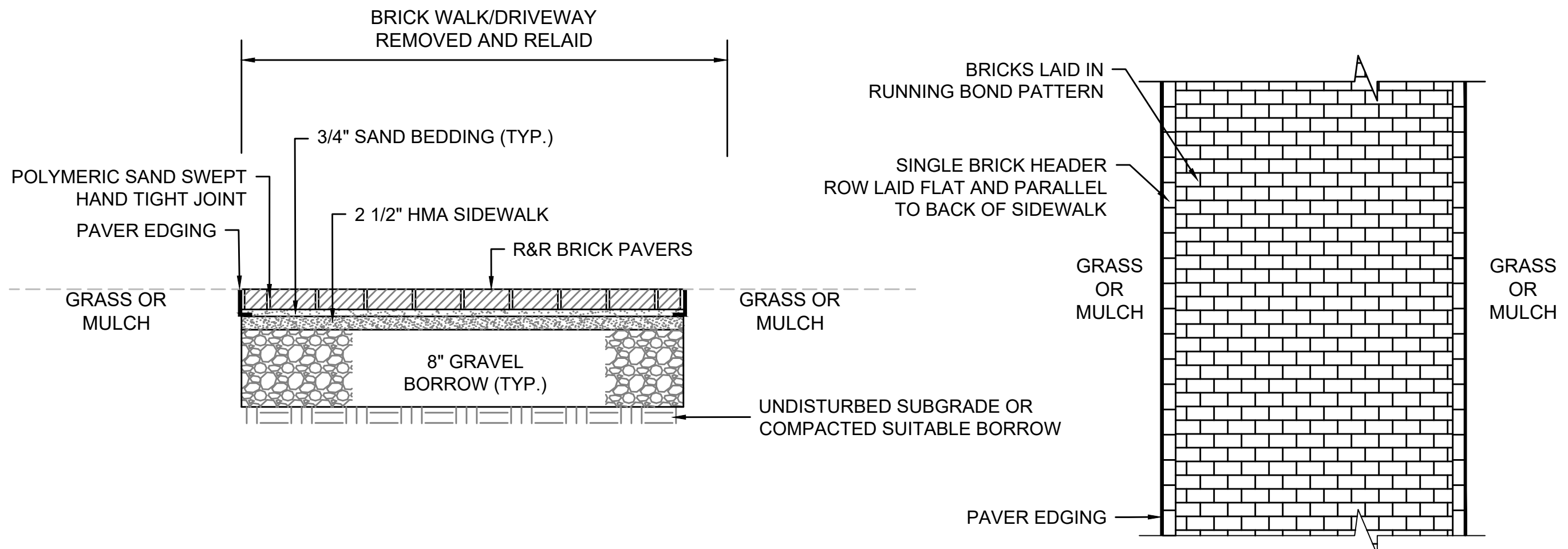
NOT TO SCALE

TO BE USED FOR TRANSITION FROM HMA CURB OR GRANITE CURB TO EDGE OF PAVEMENT



TREE PROTECTION - EXISTING TREES

NOT TO SCALE



SECTION

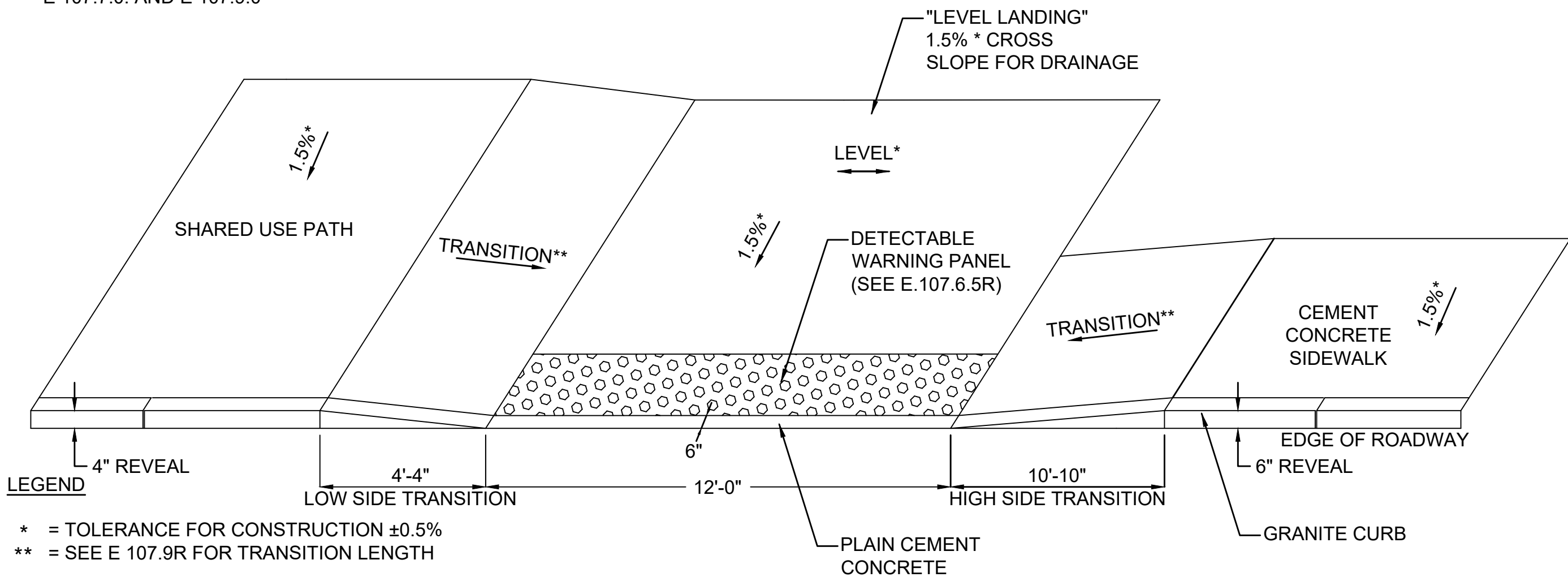
PLAN

BRICK WALK/DRIVEWAY REMOVED AND RELAID

NOT TO SCALE

NOTES:

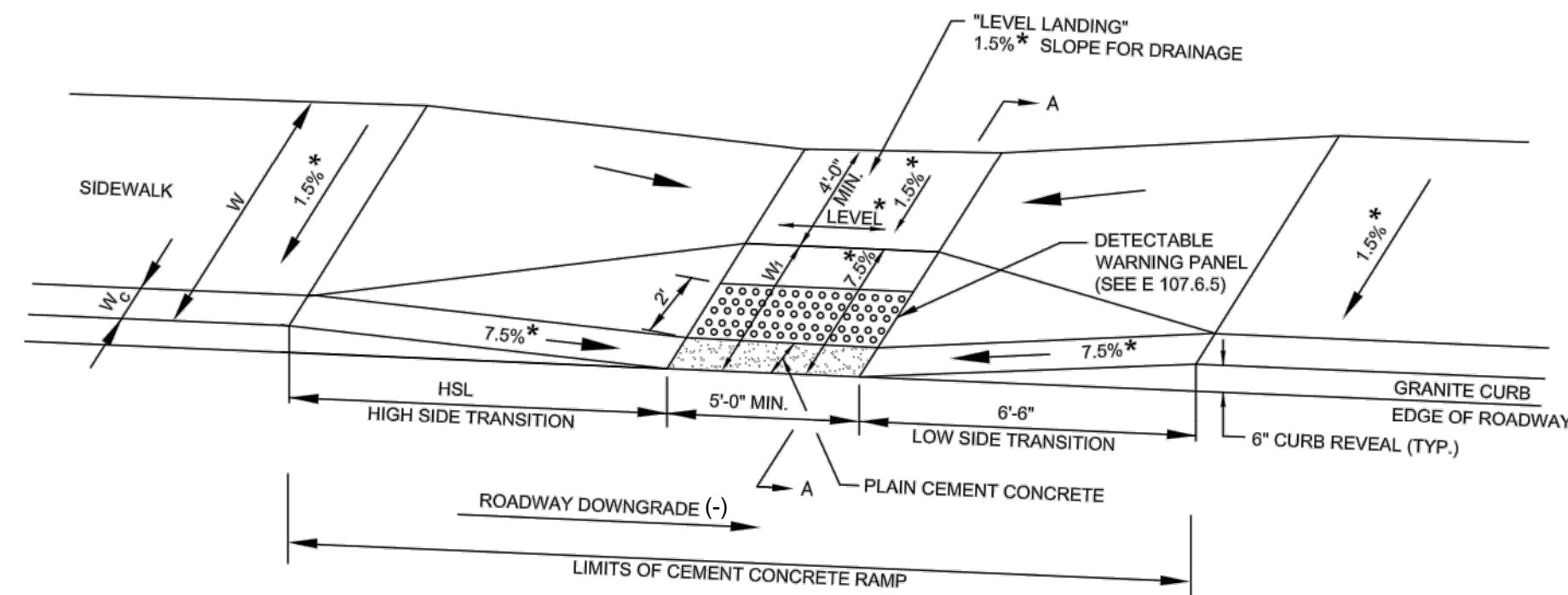
- * CONSTRUCTION TOLERANCE $\pm 0.5\%$
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0



WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF SHARED USE PATH	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET					LEFT SIDE	RIGHT SIDE
6**	BEACH RD	20+04	15.0' RT	6'-6"	11'-0"	12'-0"	0.46%	** 4'-4"	7'-8"

NOTE: ** 4" CURB REVEAL

WHEELCHAIR RAMP ON SIDEWALK AND SHARED USE PATH WITH DETECTABLE WARNING PANEL



LEGEND

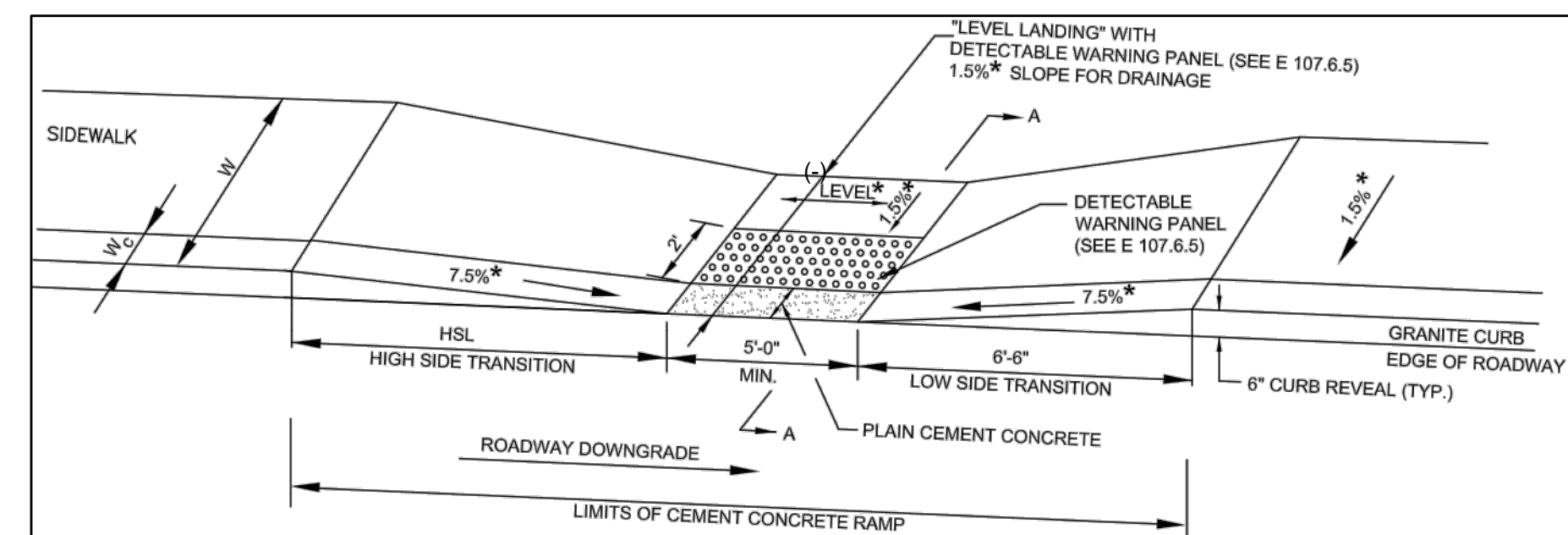
- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
- W = SIDEWALK WIDTH
- W_c = CURB WIDTH
- W_p = PERPENDICULAR RAMP LENGTH
- CC = CEMENT CONCRETE
- * = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
- USABLE SIDEWALK WIDTH PER AAB = W-W_c
- RAMP LENGTH, W1 = W-4'-0" Min

SECTION A-A

WCR #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	DEPTH OF LEVEL LANDING MIN. 4'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
1	BEACH RD	10+77	15.0' LT	2'-6"	6'-6"	5'-0"	4'-0"	0.62%	6'-6"	7'-8"
2	BEACH RD	10+77	15.0' RT	2'-6"	6'-6"	5'-0"	4'-0"	-0.69%	7'-8"	6'-6"
3*	BEACH RD	15+52	15.0' RT	2'-6"	6'-6"	5'-0"	4'-0"	-0.63%	3'-10"	6'-6"
4*	BEACH RD	15+52	15.0' LT	2'-6"	6'-6"	5'-0"	4'-0"	0.63%	3'-3"	3'-10"

NOTE: * 3" CURB REVEAL

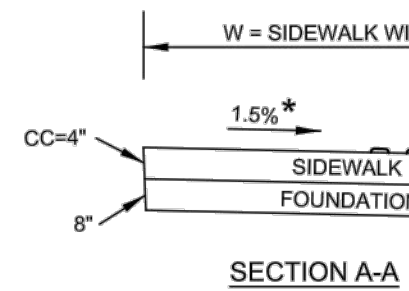
WHEELCHAIR RAMP FOR LESS THAN 12'-4" SIDEWALK



LEGEND

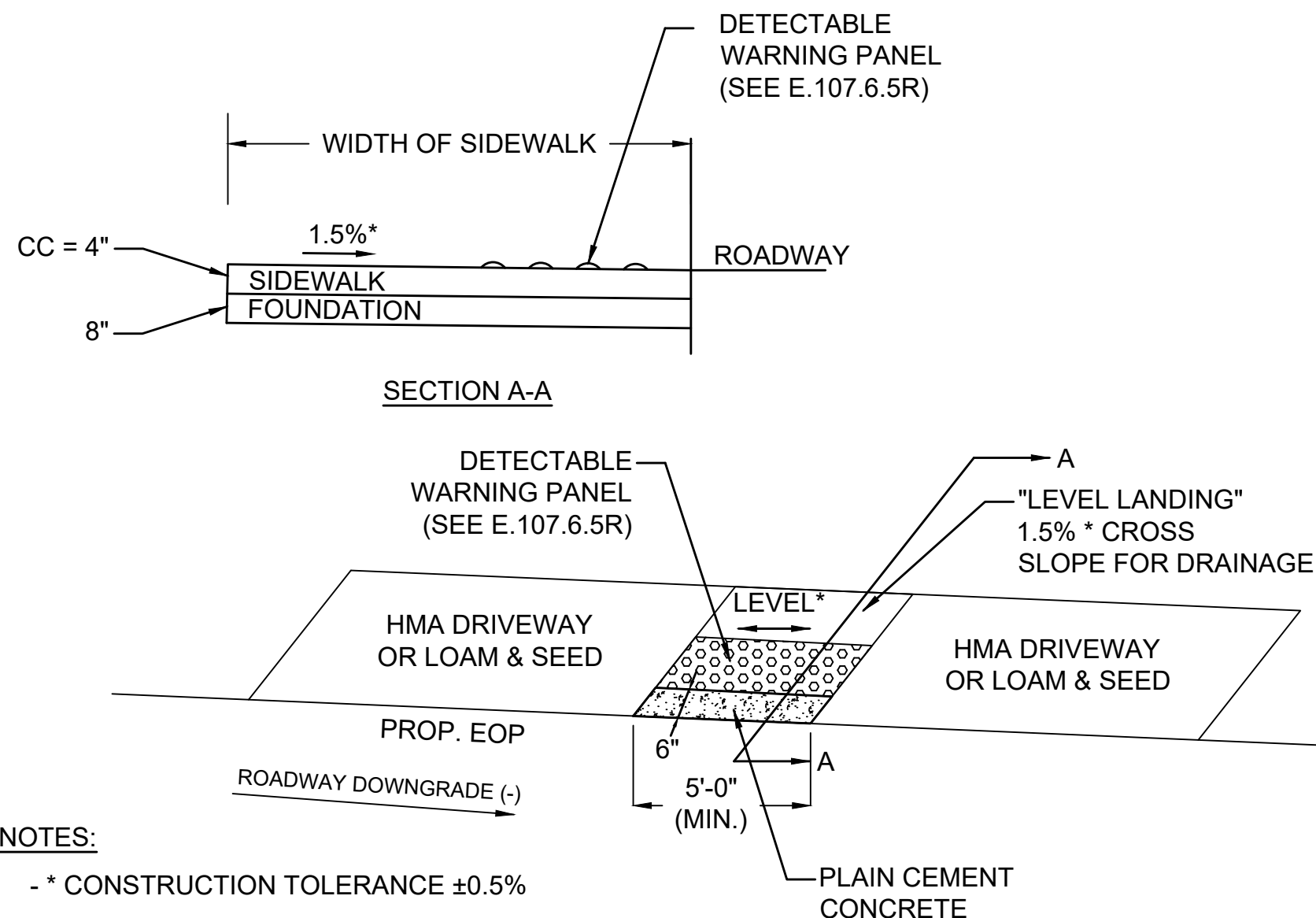
- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
- W = SIDEWALK WIDTH
- W_c = CURB WIDTH
- CC = CEMENT CONCRETE
- * = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
- USABLE SIDEWALK WIDTH PER AAB = W-W_c
- USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
- SEE E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

NOTE: ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS



WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
5	BEACH RD	20+03	15.0' LT	6'-5"±	5'-0"	-0.42%	7'-8"	6'-6"
7	BEACH RD	24+19	12.5' LT	4'-6"	5'-0"	-0.54%	7'-8"	6'-6"

WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL

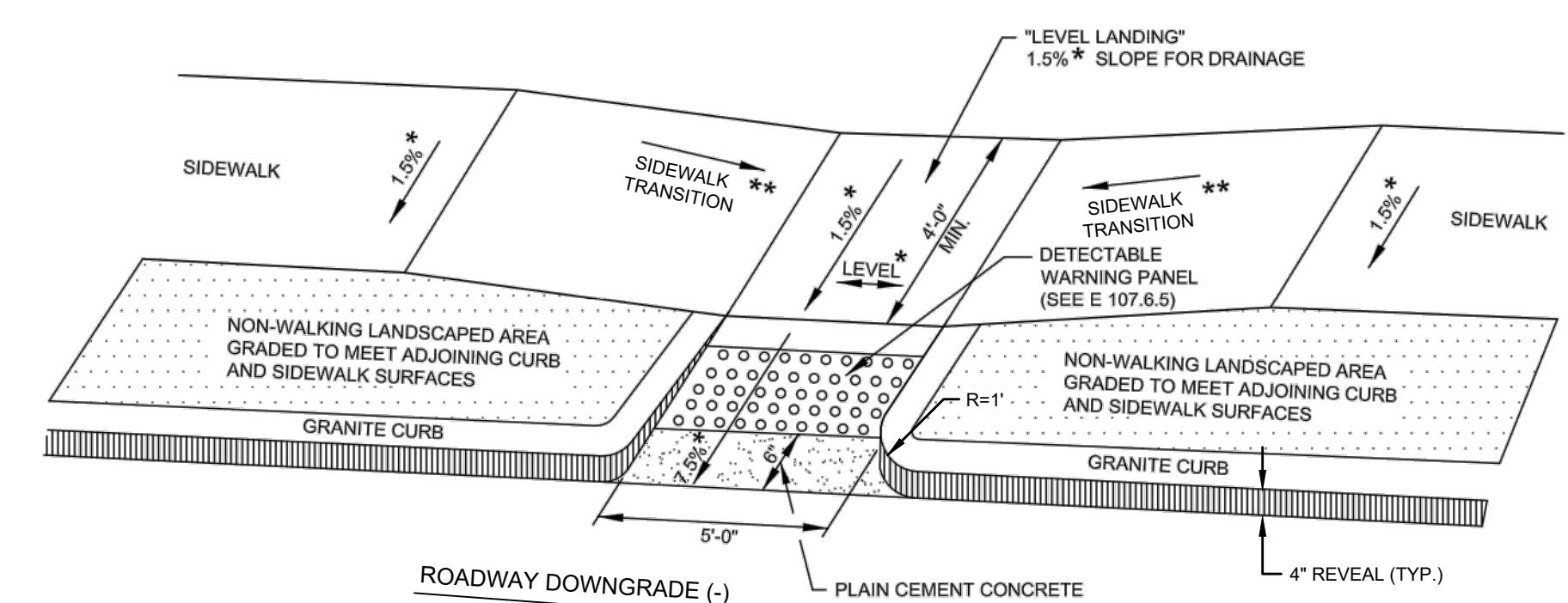


NOTES:

- * CONSTRUCTION TOLERANCE $\pm 0.5\%$

WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	DEPTH OF LEVEL LANDING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET					LEFT SIDE	RIGHT SIDE
10	BEACH RD	29+16	12.5' LT	N/A	5'-0"	5'-0"	-0.51%	N/A	N/A
12	BEACH RD	31+18	12.5' LT	N/A	5'-0"	5'-0"	0.57%	N/A	N/A
14	BEACH RD	35+78	19.0' LT	N/A	5'-0"	5'-0"	-0.32%	N/A	N/A

LEVEL LANDING WITH DETECTABLE WARNING PANEL



LEGEND

- * = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
- ** = SEE E 107.9.0 FOR TRANSITION LENGTH (DESIGN TO HAVE MINIMAL CHANGE IN SIDEWALK PROFILE)

WCR #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	DEPTH OF LEVEL LANDING MIN. 4'-0"	ROADWAY GUTTER SLOPE	SIDEWALK TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
8**	BEACH RD	24+19	12.5' RT	3'-0"	8'-0"	5'-0"	8'-0"	0.48%	6'-6"	6'-6"
9**	BEACH RD	29+16	12.5' RT	3'-0"	10'-0"	5'-0"	10'-0"	0.51%	6'-6"	6'-6"
11**	BEACH RD	31+18	12.5' RT	4'-0"	10'-0"	5'-0"	10'-0"	-0.56%	6'-6"	6'-6"
13**	BEACH RD	35+78	15.8' RT	4'-0"	10'-0"	5'-0"	10'-0"	-0.32%	6'-6"	6'-6"

NOTE: ** 4" CURB REVEAL

WHEELCHAIR RAMP WITH LANDSCAPE STRIP

TISBURY BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	71
PROJECT FILE NO.		607411	

WHEELCHAIR RAMP/DRIVEWAY DETAILS

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".

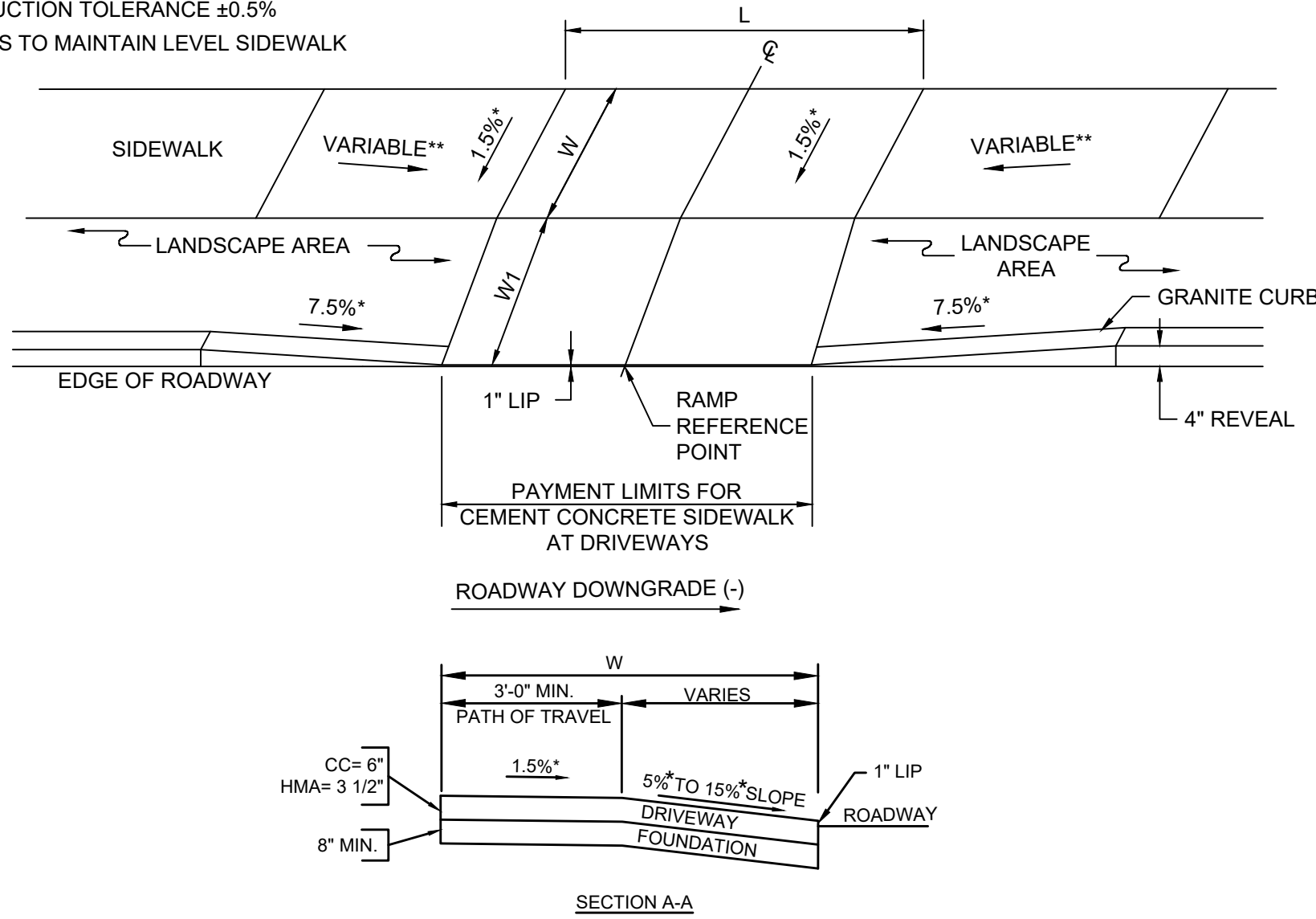
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	71
PROJECT FILE NO.		607411	

WHEELCHAIR RAMP/DRIVEWAY
DETAILS

NOTES:

- * CONSTRUCTION TOLERANCE ±0.5%
- ** INTENT IS TO MAINTAIN LEVEL SIDEWALK



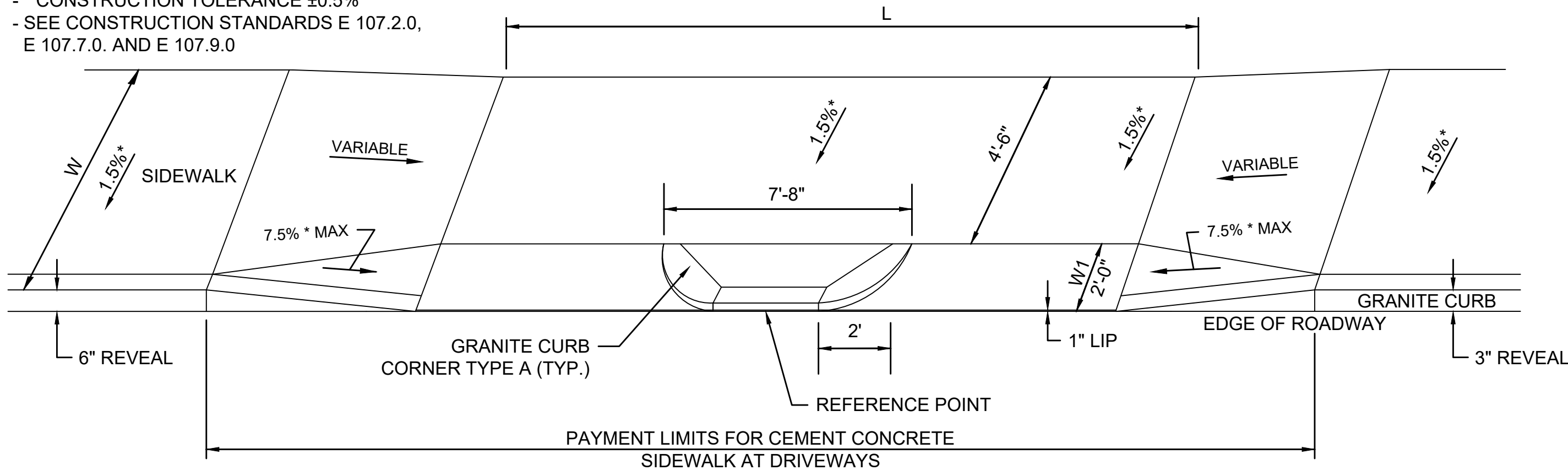
DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	SLOPE OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF DRIVEWAY	DEPTH OF TRAVEL PATH	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET							LEFT SIDE	RIGHT SIDE
23**	BEACH RD	20+90	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	8'-0"	0.51%	6'-6"	5'-2"
25**	BEACH RD	21+69	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	8'-0"	0.22%	6'-6"	6'-6"
26**	BEACH RD	22+55	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	8'-0"	-0.52%	6'-6"	6'-6"
27**	BEACH RD	23+33	12.5' RT	3'-0"	11.00%	8'-0"	30'-0"	8'-0"	-0.34%	6'-6"	6'-6"
28*	BEACH RD	24+43	12.5' RT	3'-0"	11.00%	8'-0"	18'-0"	8'-0"	0.50%	3'-3"	6'-6"
30*	BEACH RD	24+69	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	8'-0"	0.40%	6'-6"	3'-3"
31**	BEACH RD	25+13	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	8'-0"	0.10%	6'-6"	6'-6"
32**	BEACH RD	26+21	12.5' RT	3'-0"	11.00%	9'-6"	40'-0"	9'-6"	-0.50%	6'-6"	6'-6"
33**	BEACH RD	27+72	12.5' RT	3'-0"	11.00%	10'-0"	24'-0"	10'-0"	1.10%	6'-6"	6'-6"
34**	BEACH RD	28+35	12.5' RT	3'-0"	11.00%	10'-0"	30'-0"	10'-0"	0.94%	6'-6"	6'-6"
35**	BEACH RD	28+97	12.5' RT	3'-0"	11.00%	10'-0"	24'-0"	10'-0"	0.51%	4'-4"	6'-6"
36**	BEACH RD	29+51	12.5' RT	3'-0"	11.00%	10'-0"	24'-0"	10'-0"	0.40%	6'-6"	4'-4"
37**	BEACH RD	30+87	12.5' RT	3'-0"	11.00%	10'-0"	24'-0"	10'-0"	-0.57%	6'-6"	6'-6"
38**	BEACH RD	31+79	12.5' RT	4'-0"	8.25%	10'-0"	30'-0"	10'-0"	-0.55%	6'-6"	6'-6"
39**	BEACH RD	32+61	12.5' RT	4'-0"	8.25%	10'-0"	30'-0"	10'-0"	-0.36%	6'-6"	6'-6"
40**	BEACH RD	34+03	14.2' RT	4'-0"	8.25%	10'-0"	30'-0"	10'-0"	-0.09%	6'-6"	6'-6"
41**	BEACH RD	36+12	15.6' RT	4'-0"	8.25%	10'-0"	30'-0"	10'-0"	-0.27%	6'-6"	6'-6"

NOTE: * 3" CURB REVEAL; ** 4" CURB REVEAL

SIDEWALK THROUGH DRIVEWAYS WITH LANDSCAPING

NOTES:

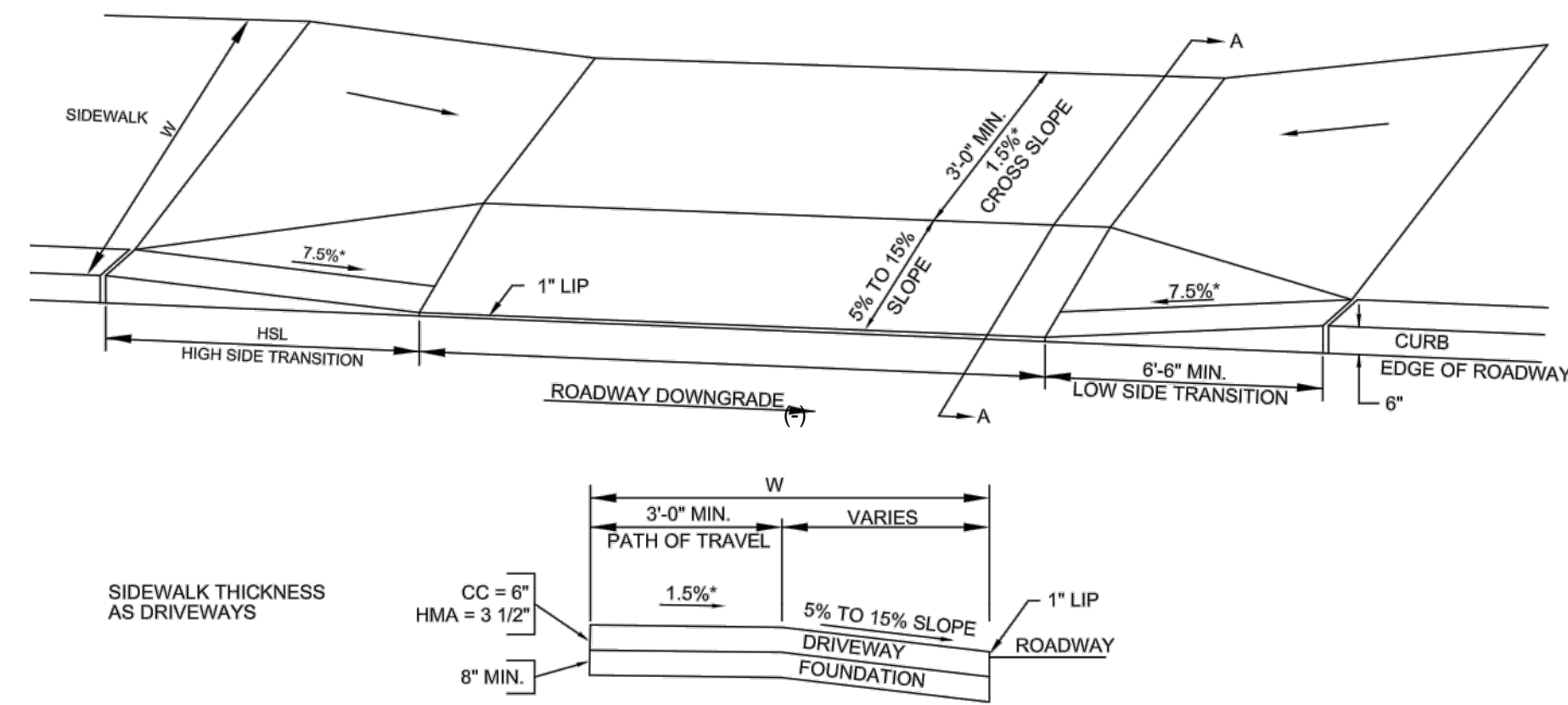
- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0. AND E 107.9.0



DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-3"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
13*	BEACH RD	15+92	15.0' RT	2'-0"	6'-6"	49'-0"	4'-6"	-0.61%	7'-2"	3'-3"

NOTE: * 3" CURB REVEAL

SIDEWALK THROUGH ADJACENT DRIVEWAYS SEPARATED BY CURB RETURNS



LEGEND

- HSL = HIGH SIDE TRANSITION LENGTH. SEE E 107.9.0
- W = SIDEWALK WIDTH
- + = TOLERANCE FOR CONSTRUCTION ±0.5%
- CC = CEMENT CONCRETE
- HMA = HOT MIX ASPHALT

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
1*	BEACH RD	11+64	15.0' RT	2'-0"	6'-6"	12'-0"	4'-6"	-0.01%	7'-8"	3'-3"
2	BEACH RD	12+11	15.0' RT	2'-0"	6'-6"	30'-0"	4'-6"	0.19%	6'-6"	7'-8"
3	BEACH RD	12+25	15.0' LT	2'-0"	6'-6"	30'-0"	4'-6"	-0.62%	7'-8"	6'-6"
4	BEACH RD	12+81	15.0' LT	2'-0"	6'-6"	22'-0"	4'-6"	-0.44%	7'-8"	6'-6"
5	BEACH RD	13+02	15.0' RT	2'-0"	6'-6"	22'-0"	4'-6"	0.38%	6'-6"	7'-8"
6	BEACH RD	13+61	15.0' RT	2'-0"	6'-6"	21'-0"	4'-6"	-0.08%	7'-8"	7'-8"
7*	BEACH RD	13+81	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.25%	6'-6"	3'-10"
8*	BEACH RD	14+13	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	0.59%	3'-3"	7'-8"
9	BEACH RD	14+49	15.0' RT	2'-0"	6'-6"	30'-0"	4'-6"	-0.62%	7'-8"	6'-6"
10	BEACH RD	14+71	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	0.62%	6'-6"	7'-8"
11	BEACH RD	15+01	15.0' RT	2'-0"	6'-6"	15'-0"	4'-6"	-0.57%	7'-8"	6'-6"
12*	BEACH RD	15+21	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.62%	6'-6"	3'-10"
14*	BEACH RD	15+86	15.0' LT	2'-0"	6'-6"	30'-0"	4'-6"	0.62%	3'-3"	7'-8"
15	BEACH RD	16+49	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	-0.46%	7'-8"	6'-6"
16	BEACH RD	16+80	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.33%	6'-6"	7'-8"
17	BEACH RD	17+80	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	-0.30%	6'-6"	6'-6"
18	BEACH RD	18+09	15.0' LT	2'-0"	6'-6"	30'-0"	4'-6"	-0.09%	7'-8"	6'-6"
19	BEACH RD	18+75	15.0' LT	2'-0"	6'-6"	30'-0"	4'-6"	-0.74%	7'-8"	6'-6"
20	BEACH RD	18+96	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	-0.08%	6'-6"	7'-8"
21	BEACH RD	19+59	15.0' RT	2'-0"	6'-6"	15'-0"	4'-6"	0.52%	6'-6"	7'-8"
22**	BEACH RD	20+48	14.5' RT	2'-0"	12'-0"	24'-0"	10'-0"	0.30%	4'-4"	5'-2"
24	BEACH RD	21+12	12.5' LT	2'-0"	6'-6"	30'-0"	4'-6"	0.07%	7'-8"	7'-8"

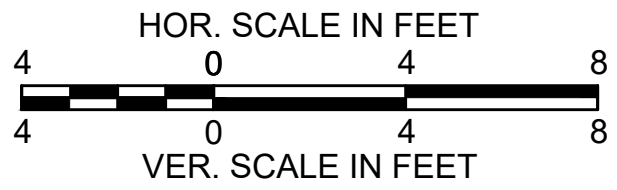
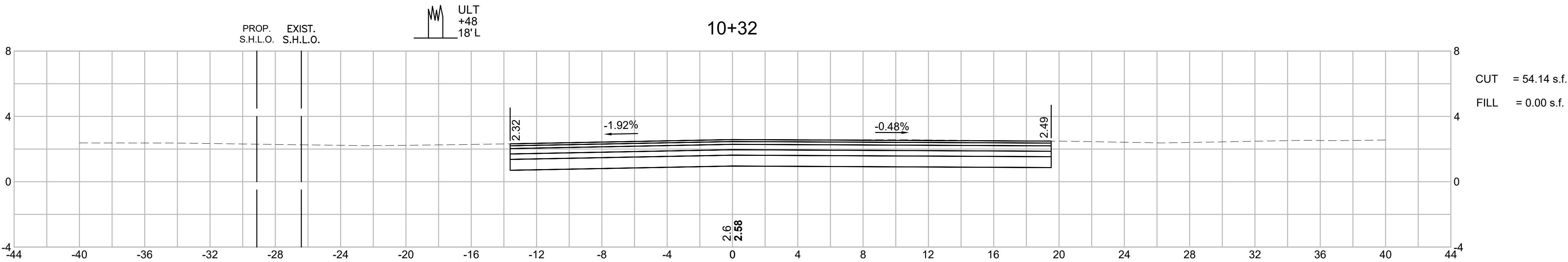
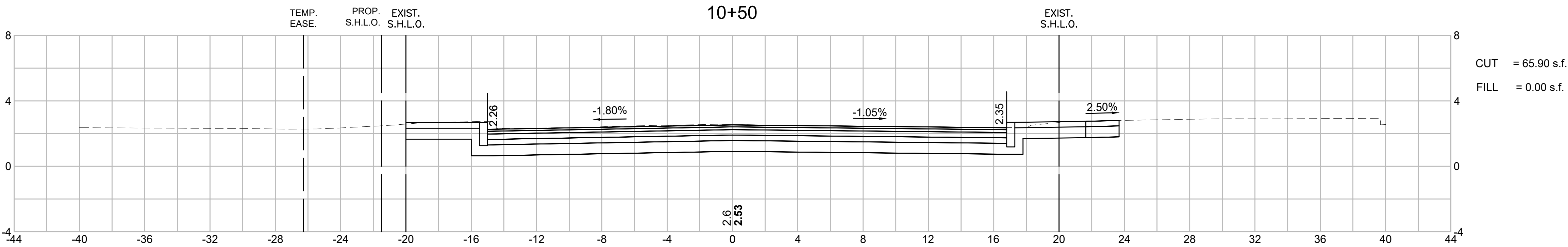
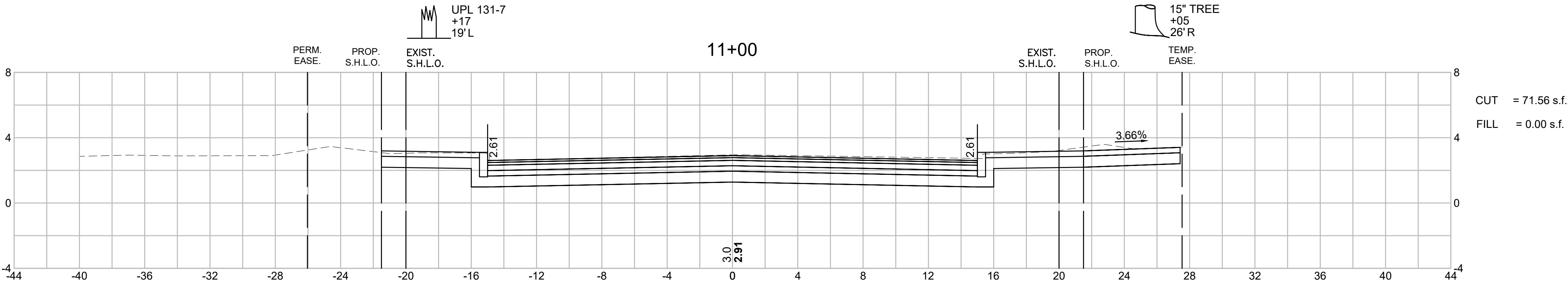
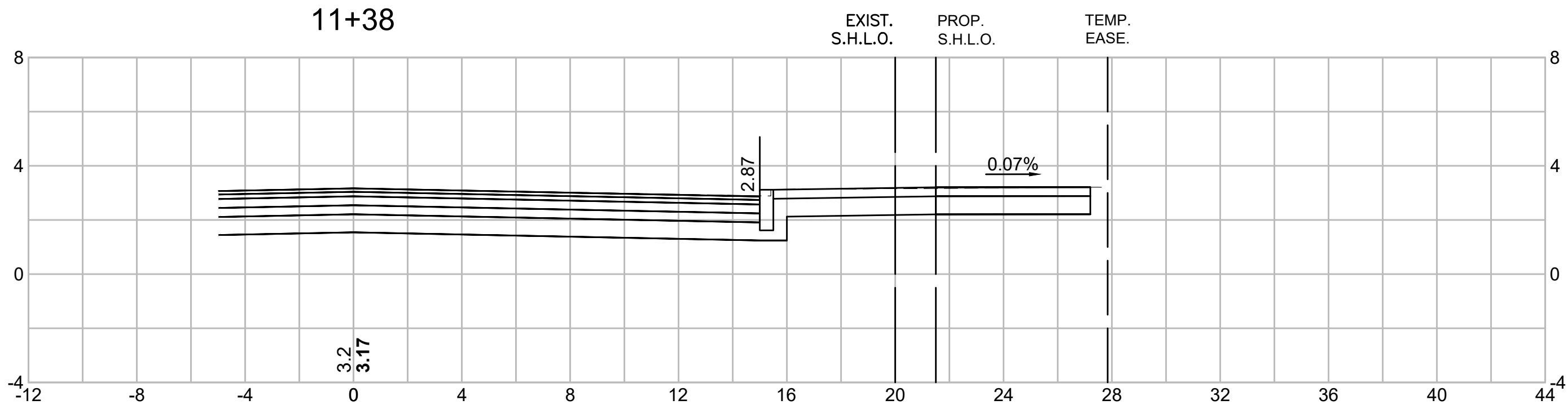
NOTE: * 3" CURB REVEAL; ** 4" CURB REVEAL

SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	71
PROJECT FILE NO.		607411	

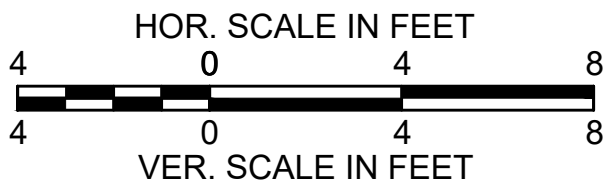
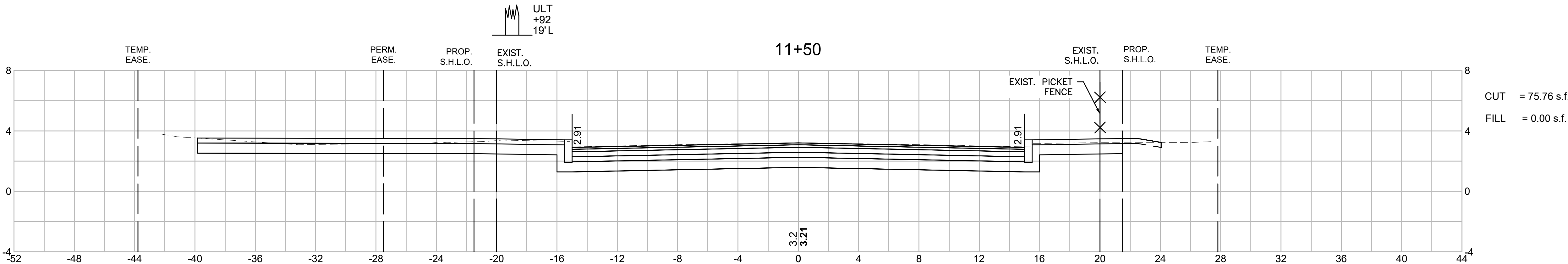
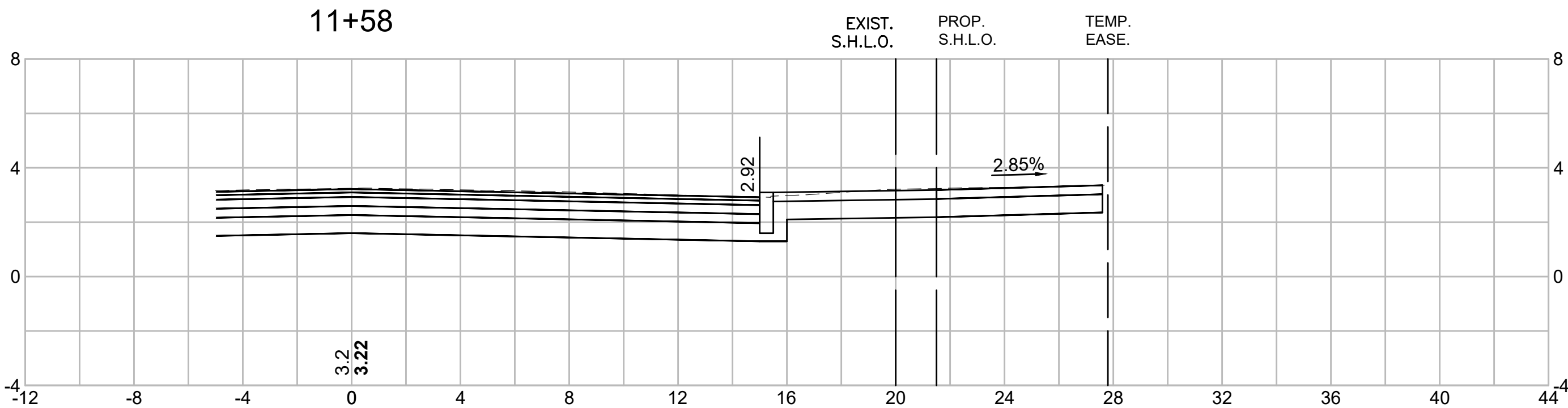
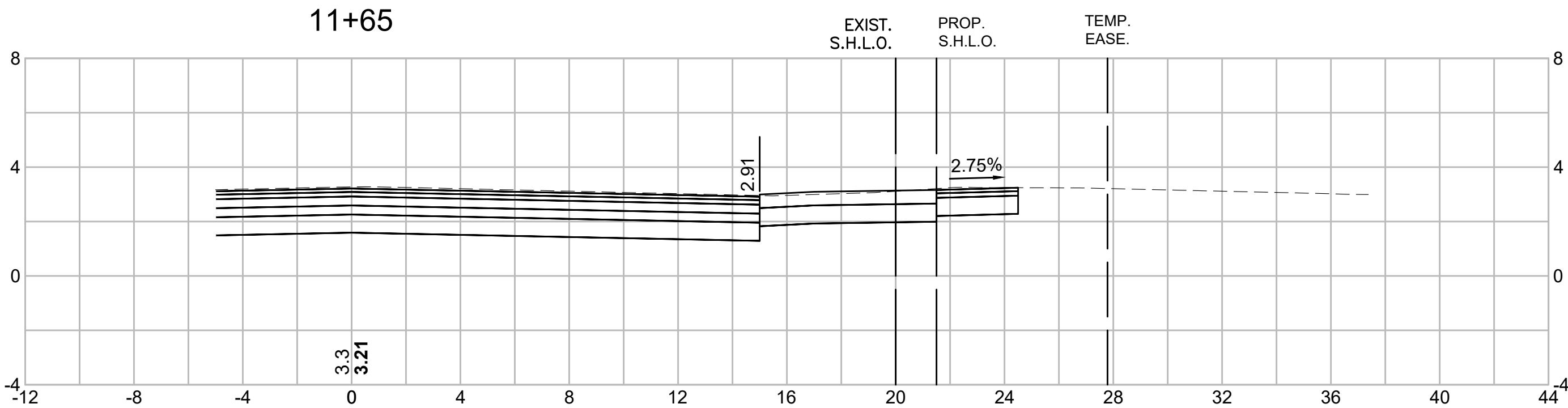
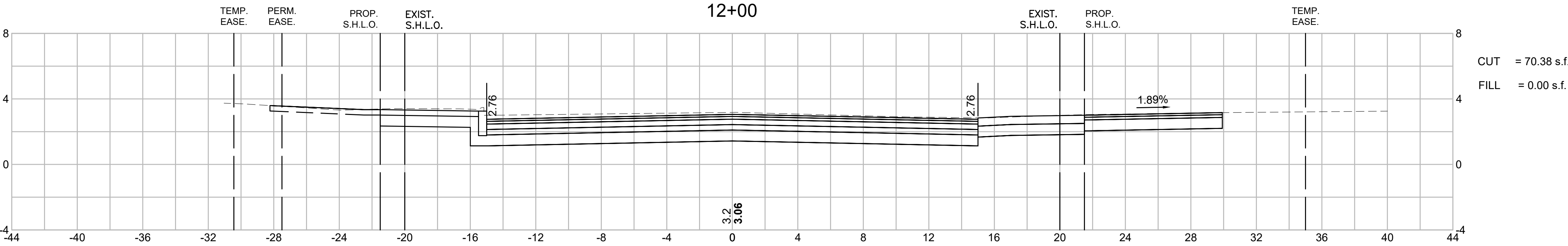
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	71
PROJECT FILE NO.		607411	

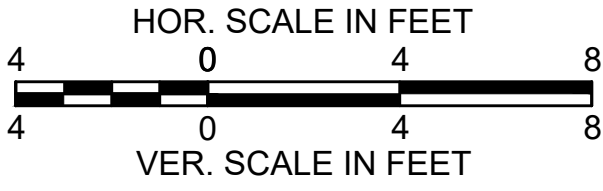
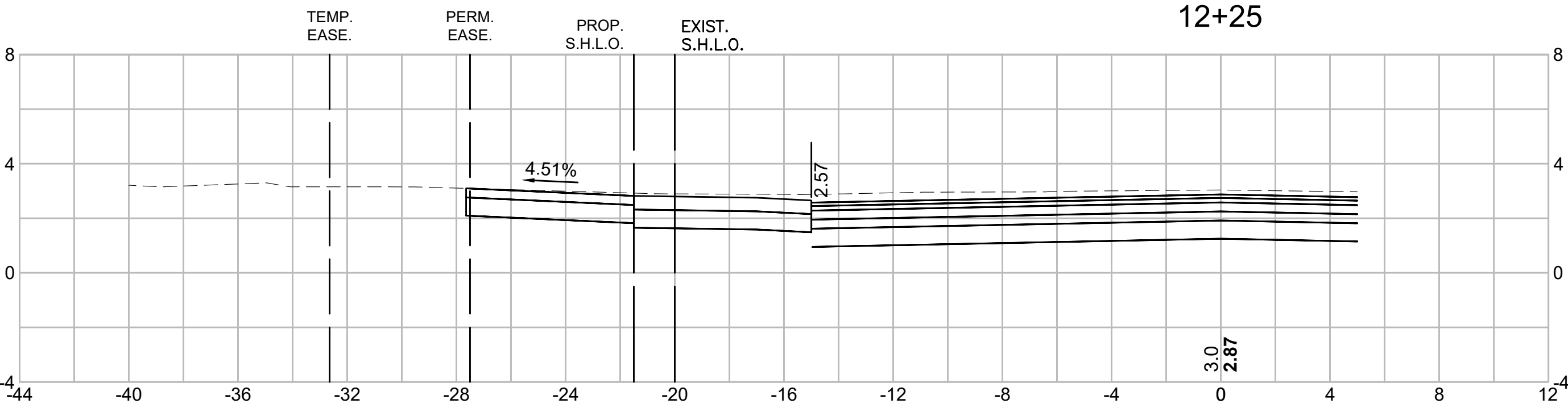
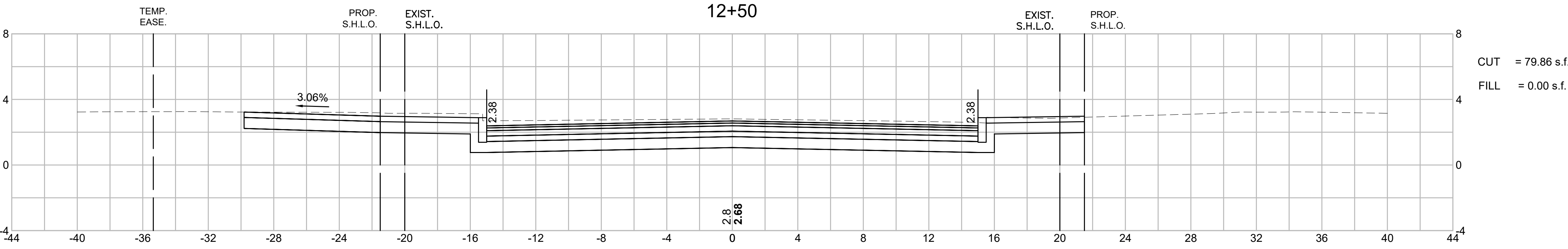
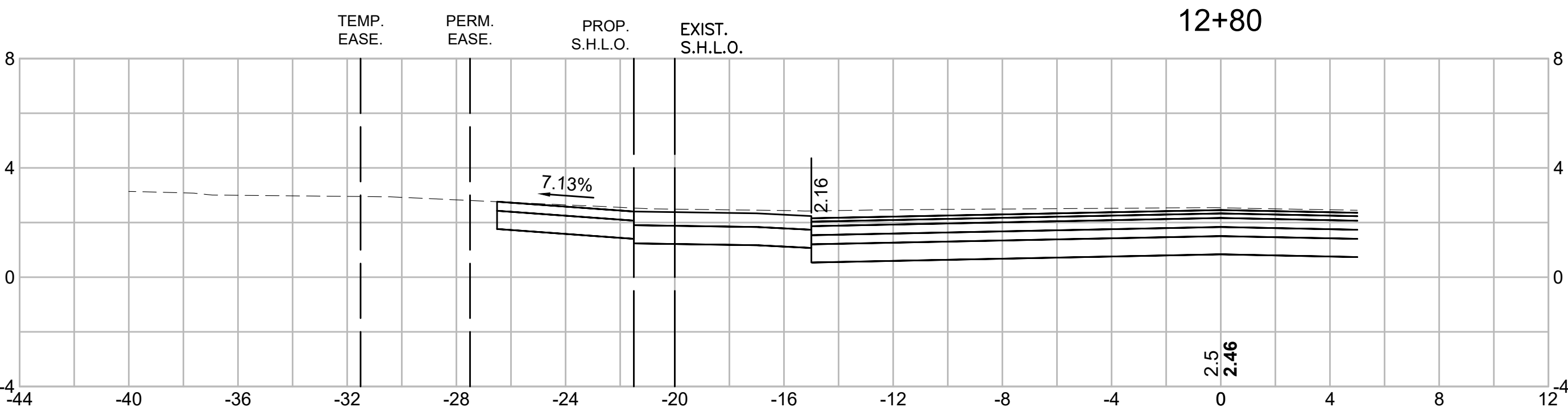
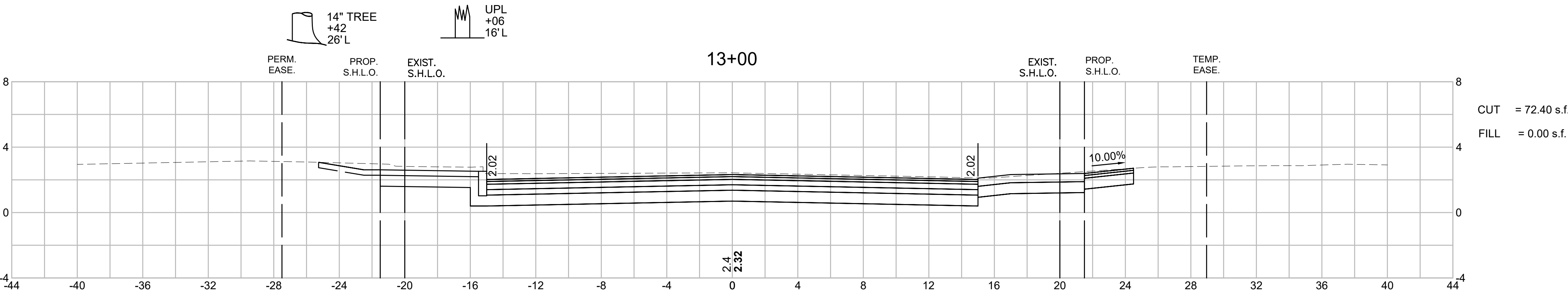
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	49	71
PROJECT FILE NO.		607411	

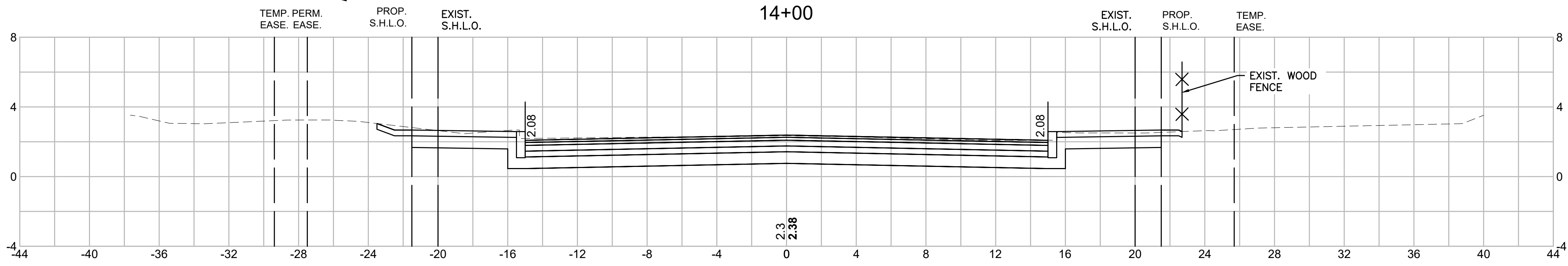
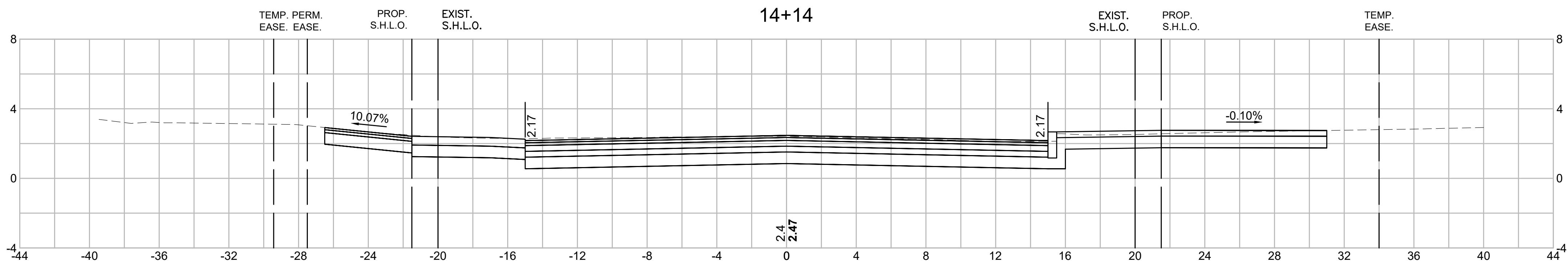
CROSS SECTIONS



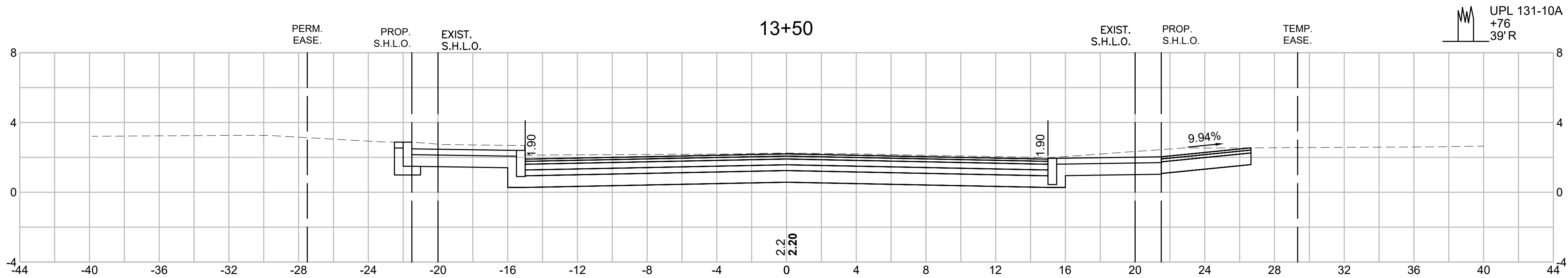
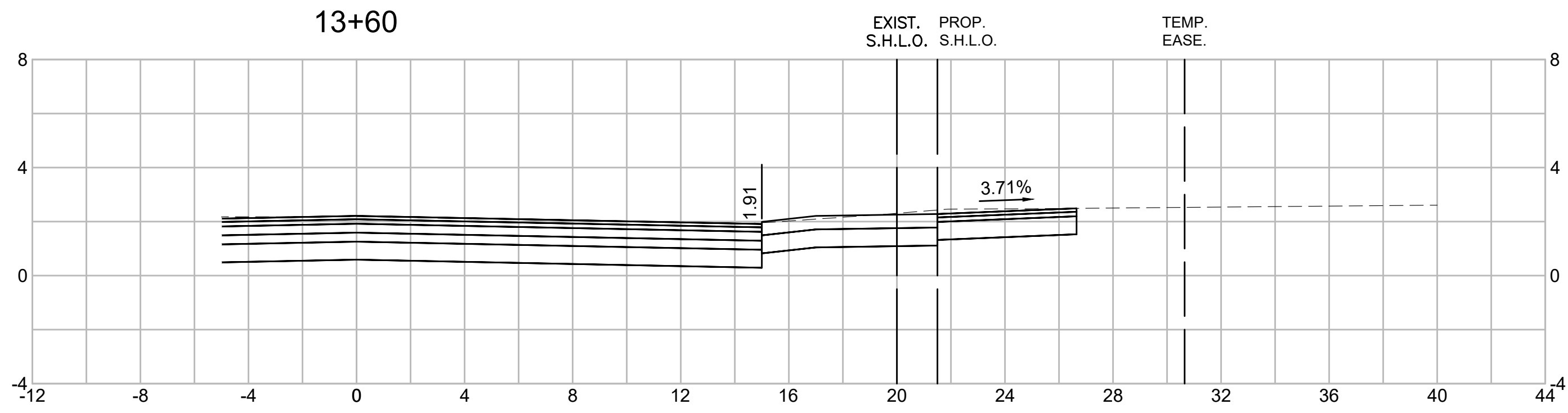
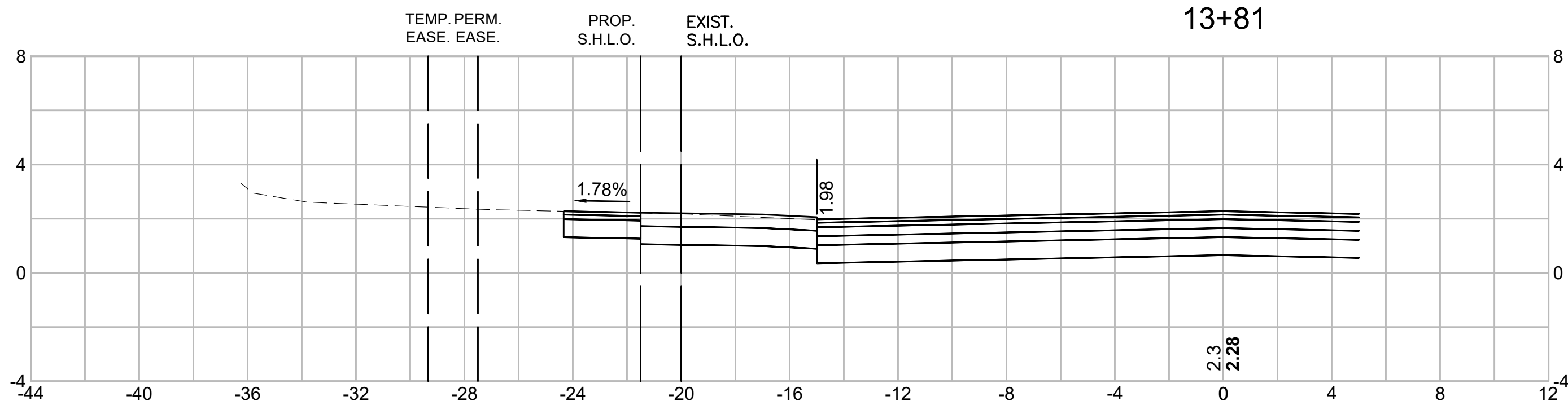
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	50	71
PROJECT FILE NO.		607411	

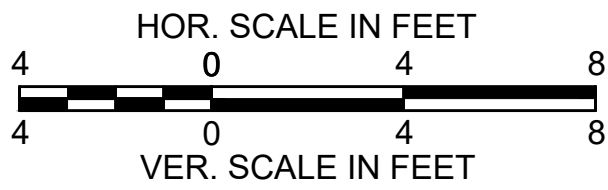
CROSS SECTIONS



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FILL = 0.00 s.f.



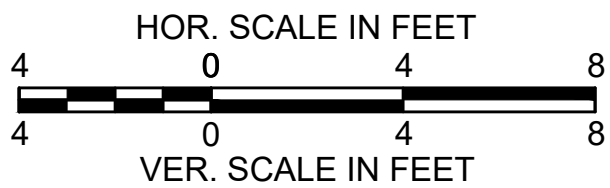
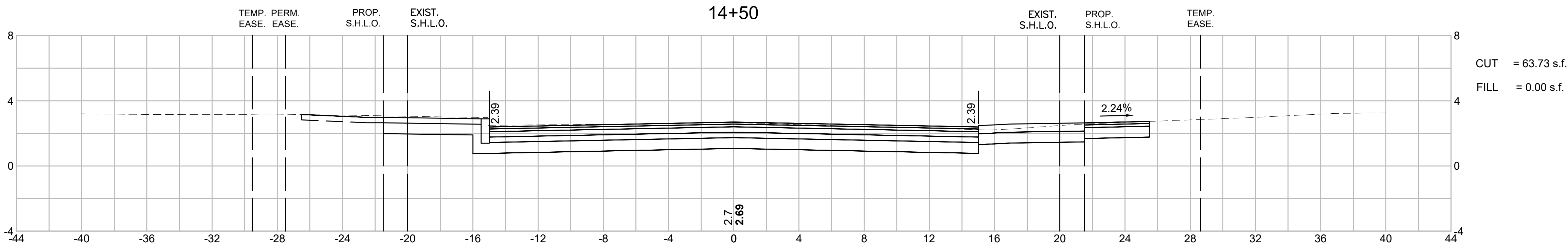
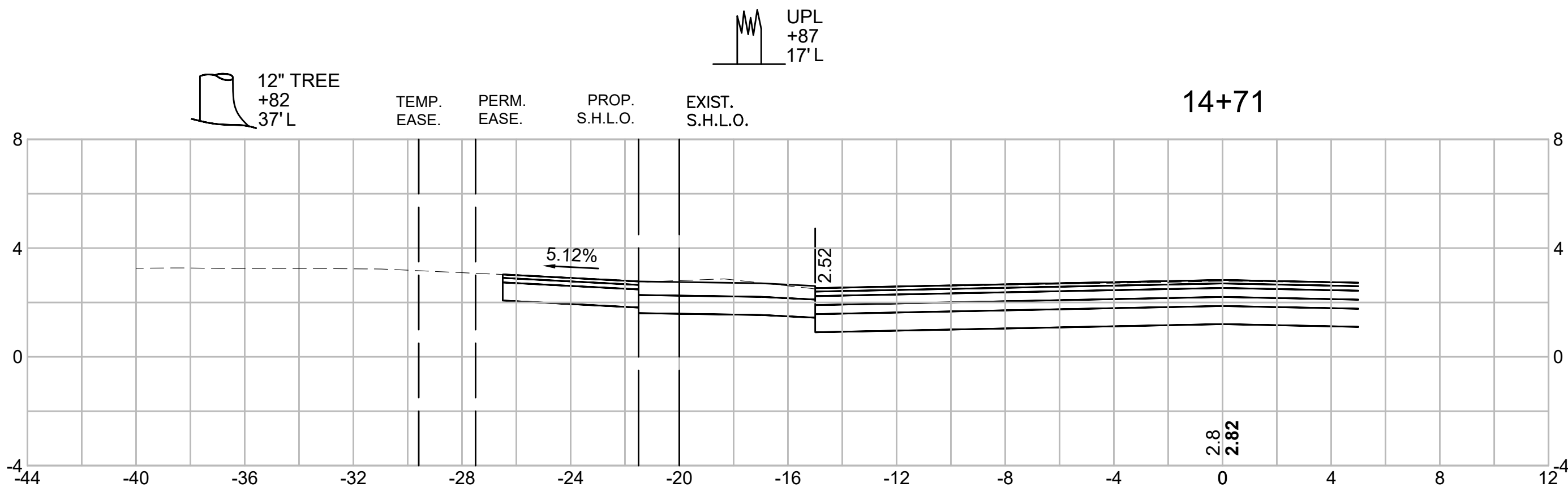
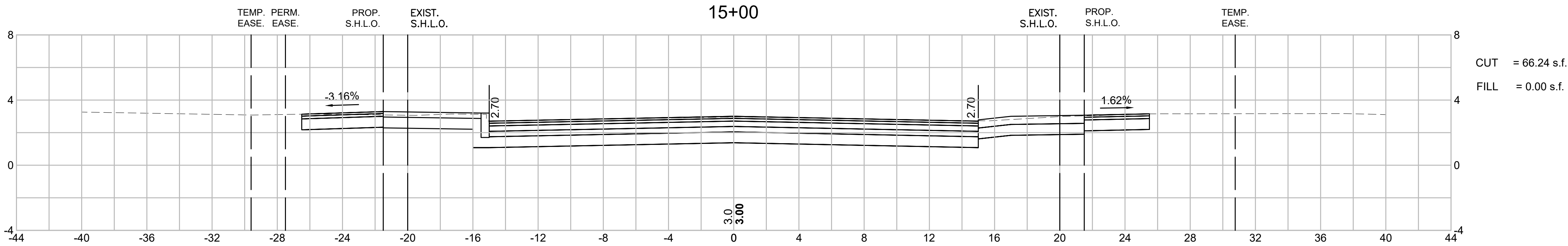
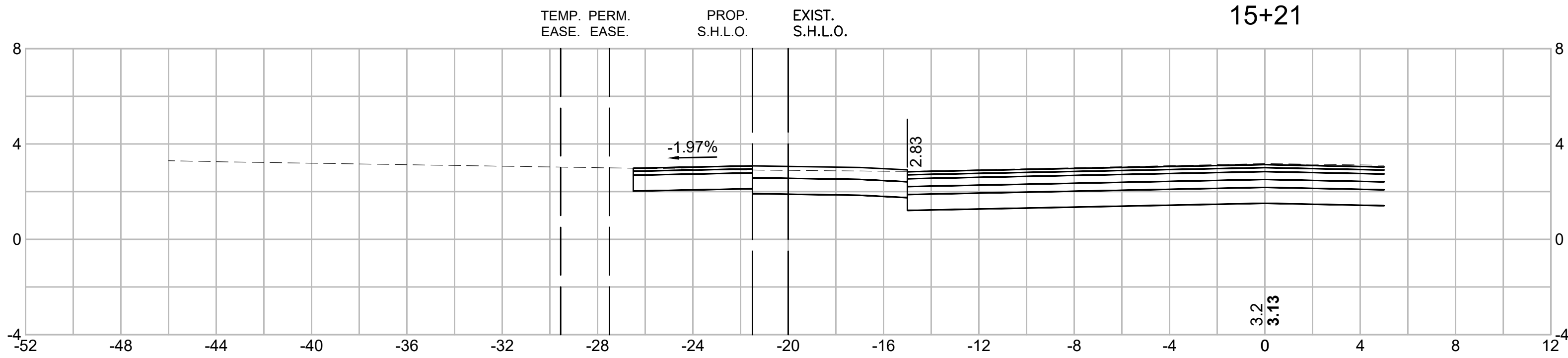
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FILL = 0.00 s.f.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	51	71
PROJECT FILE NO.		607411	

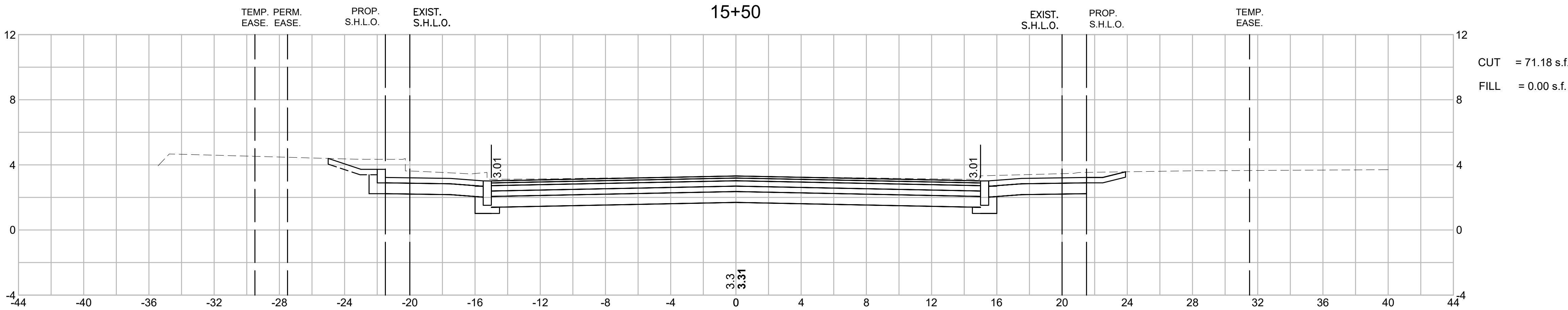
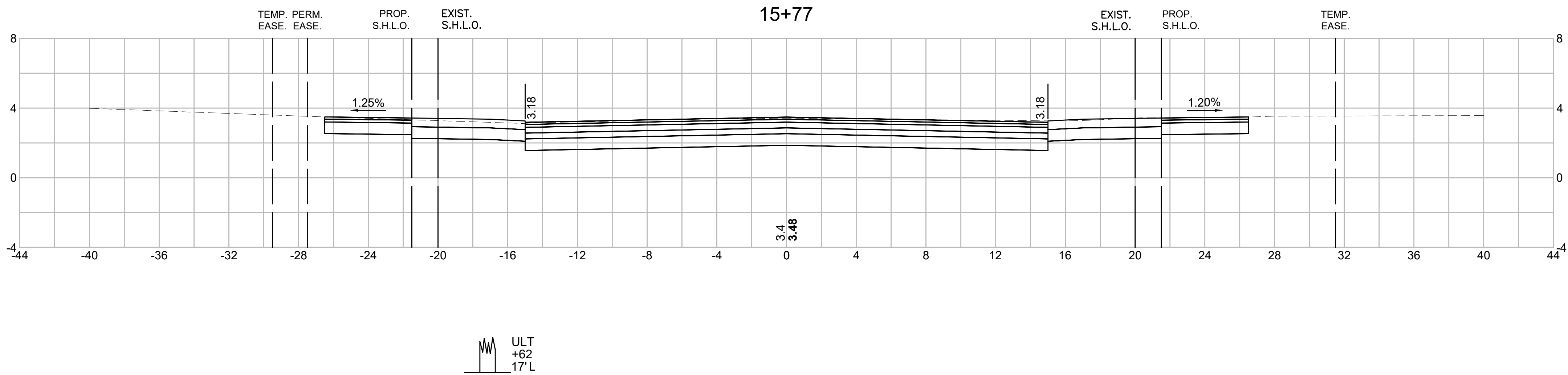
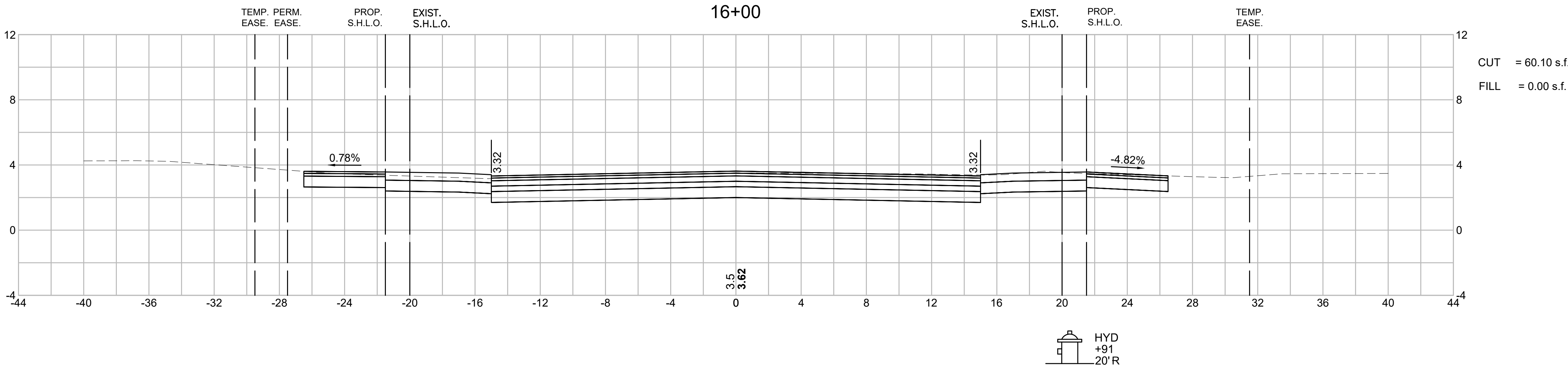
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	52	71
PROJECT FILE NO.		607411	

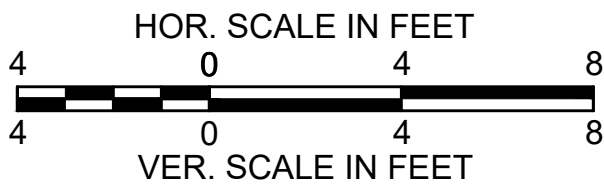
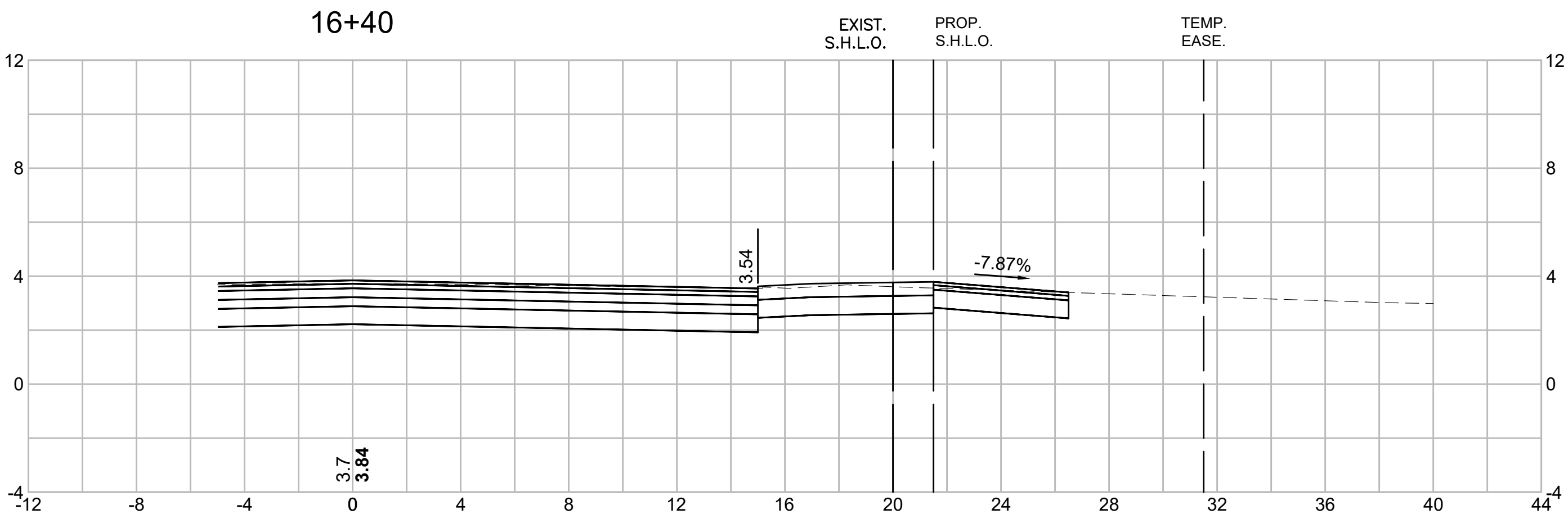
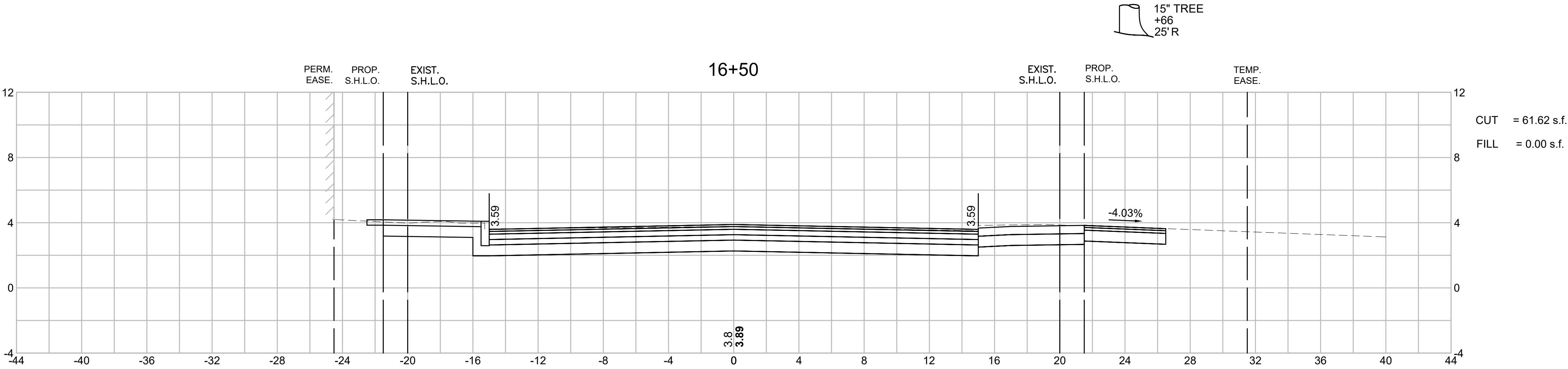
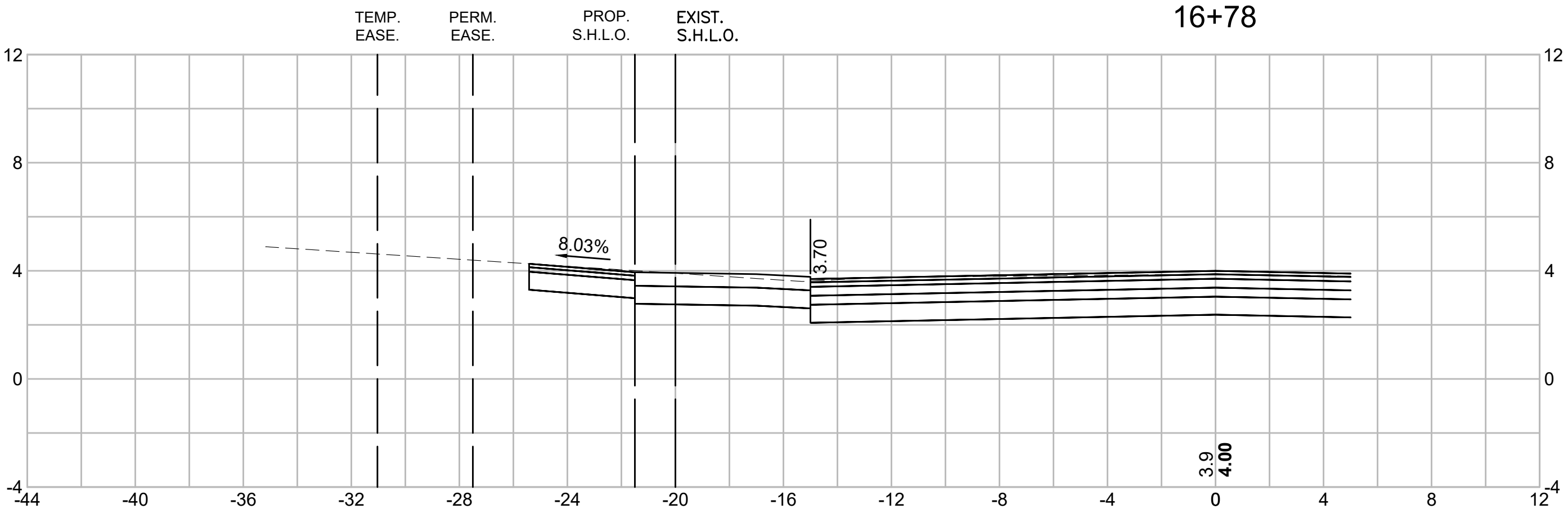
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	53	71
PROJECT FILE NO.		607411	

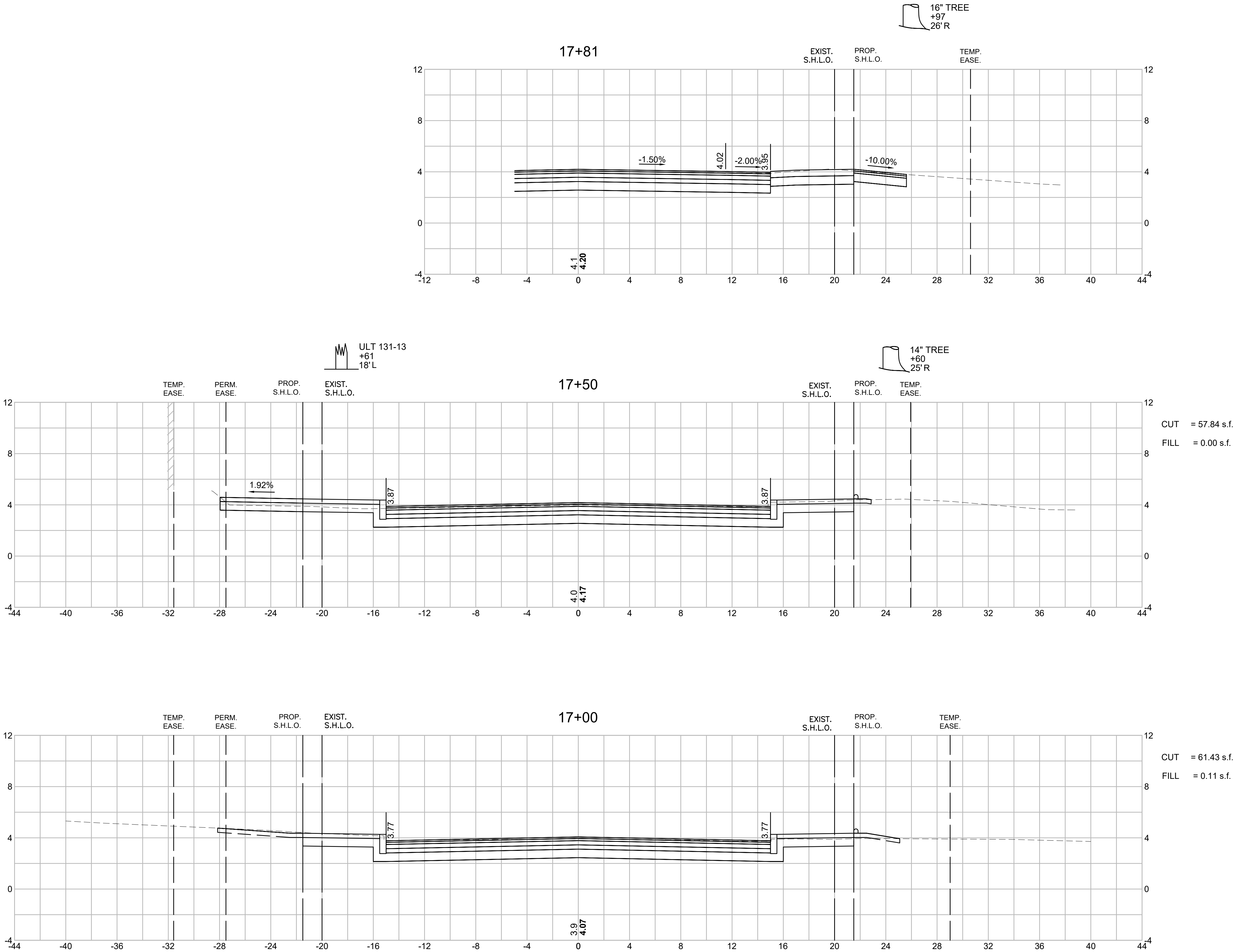
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	54	71
PROJECT FILE NO.		607411	

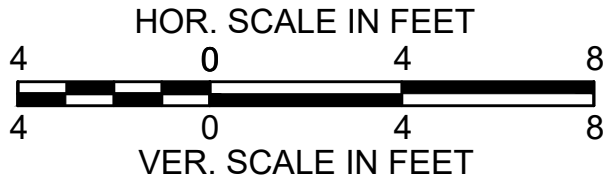
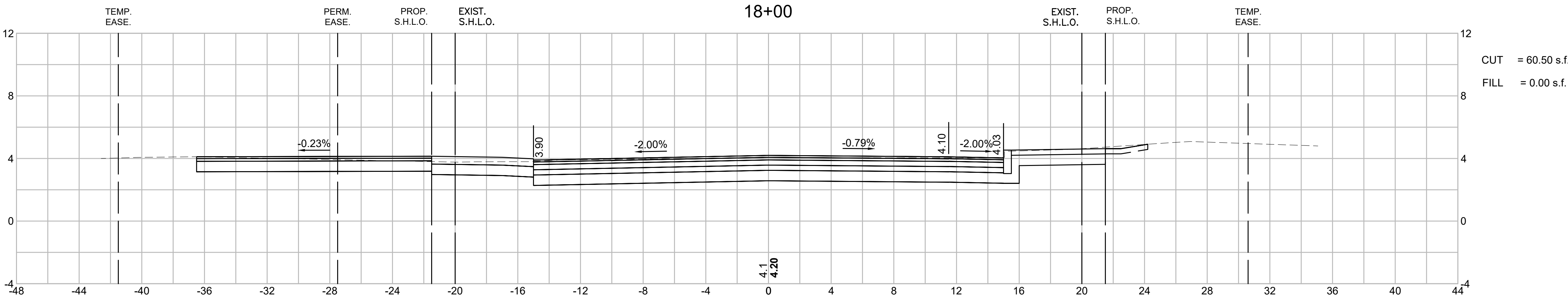
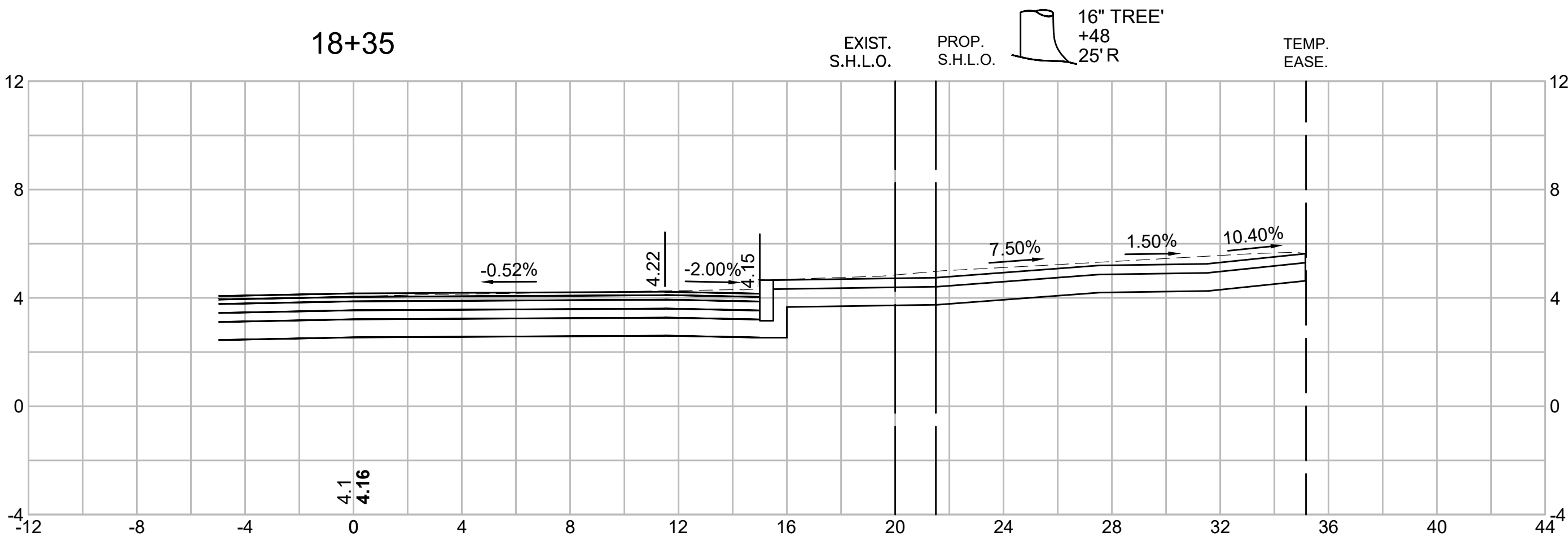
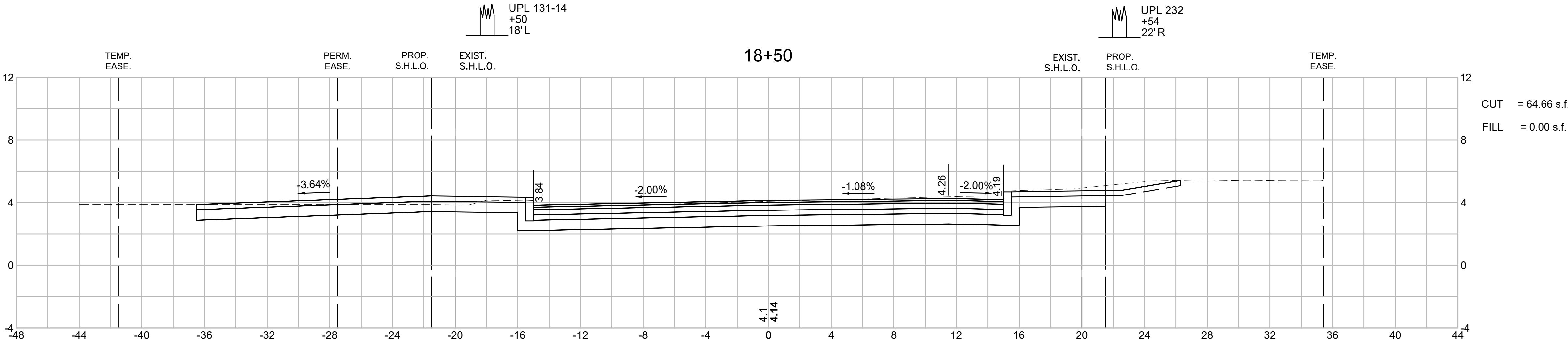
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	55	71
PROJECT FILE NO.		607411	

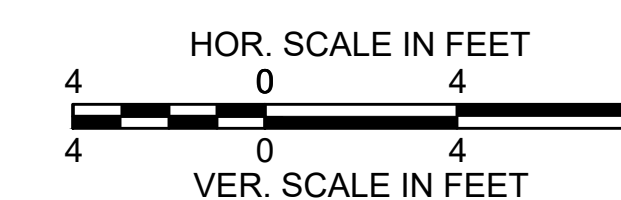
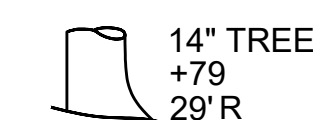
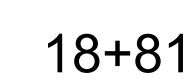
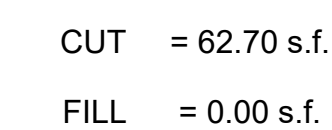
CROSS SECTIONS



14" TREE
+39
33'R

8" TREE
+27
33'R

10" TREE
+16
33'R

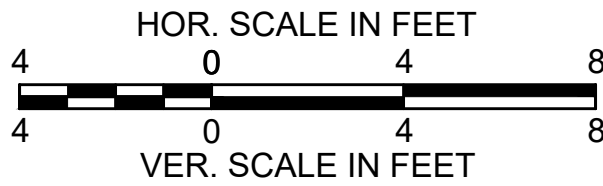
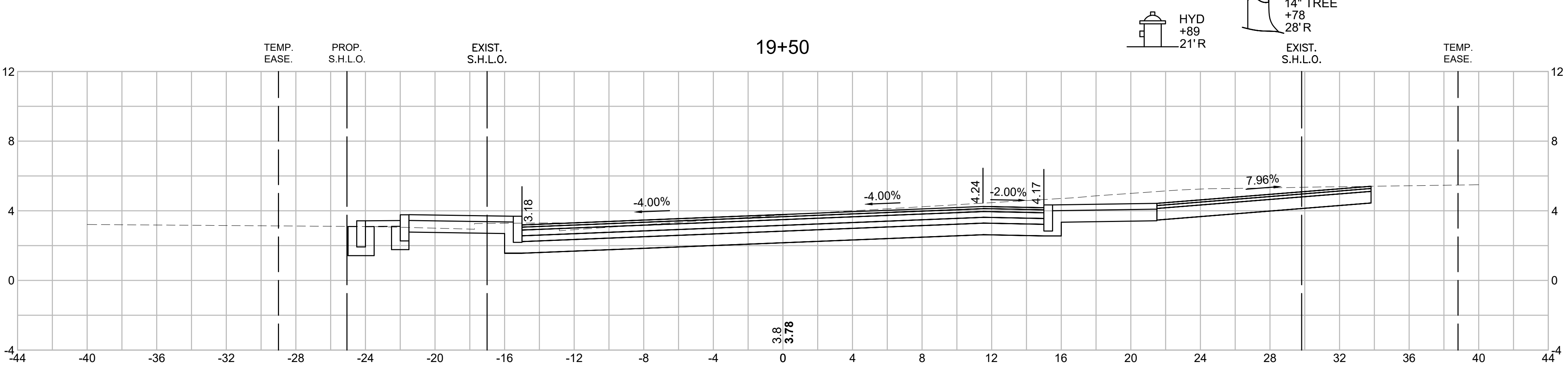
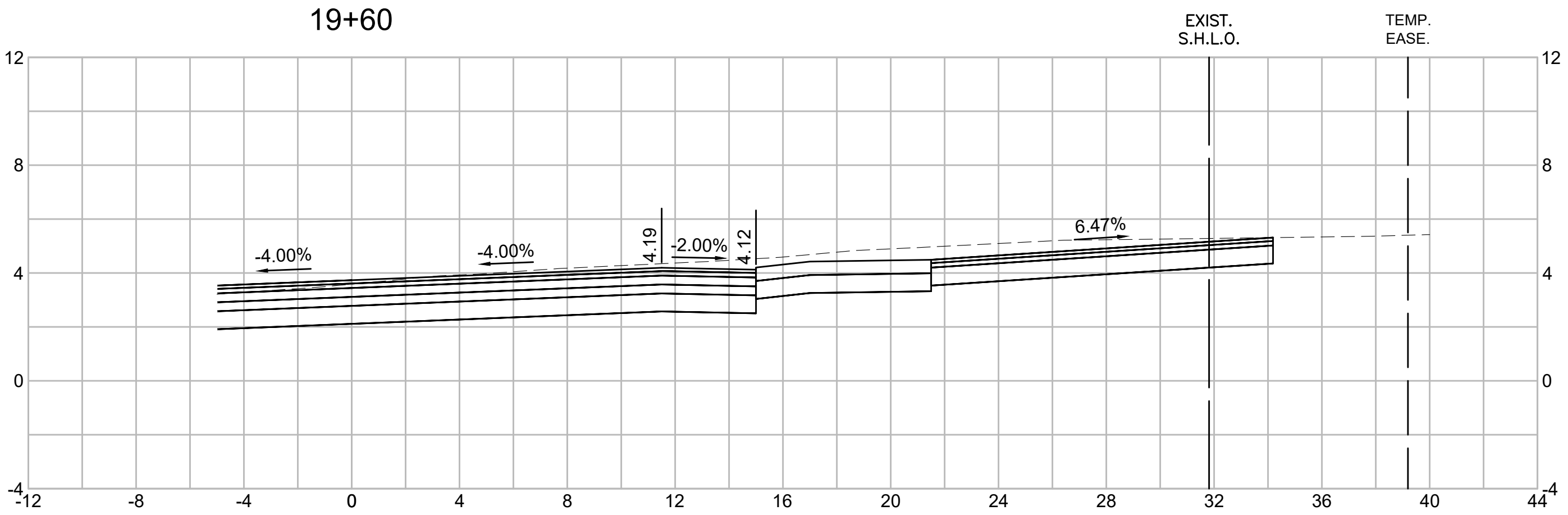
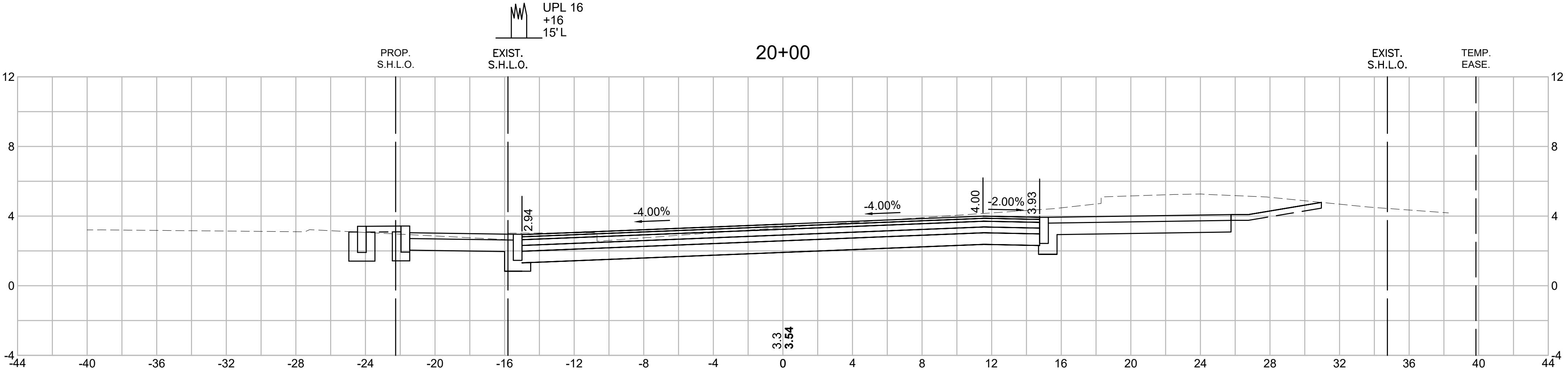
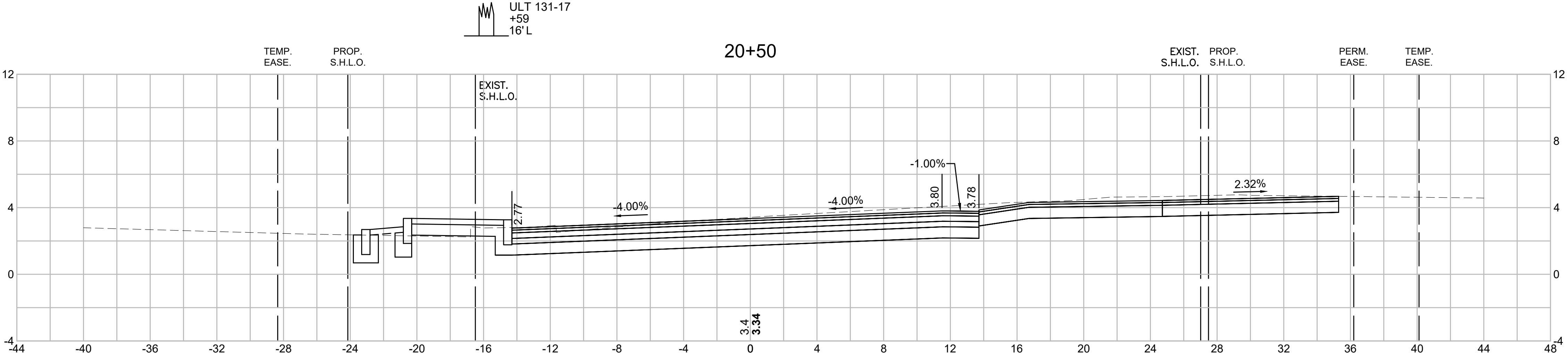


TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	57	71
PROJECT FILE NO.		607411	

CROSS SECTIONS

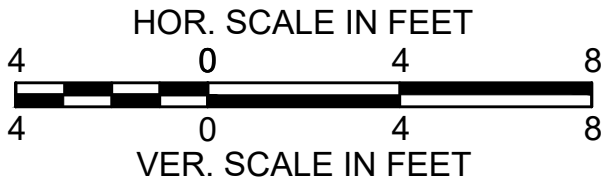
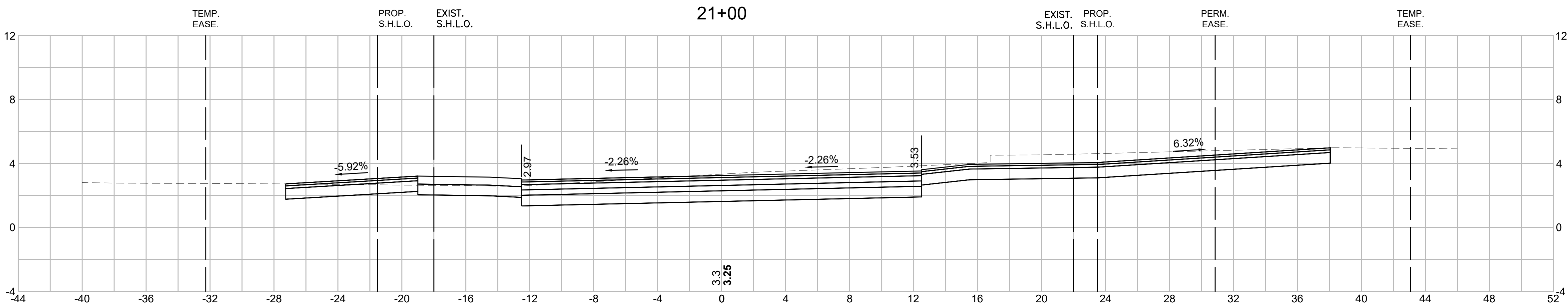
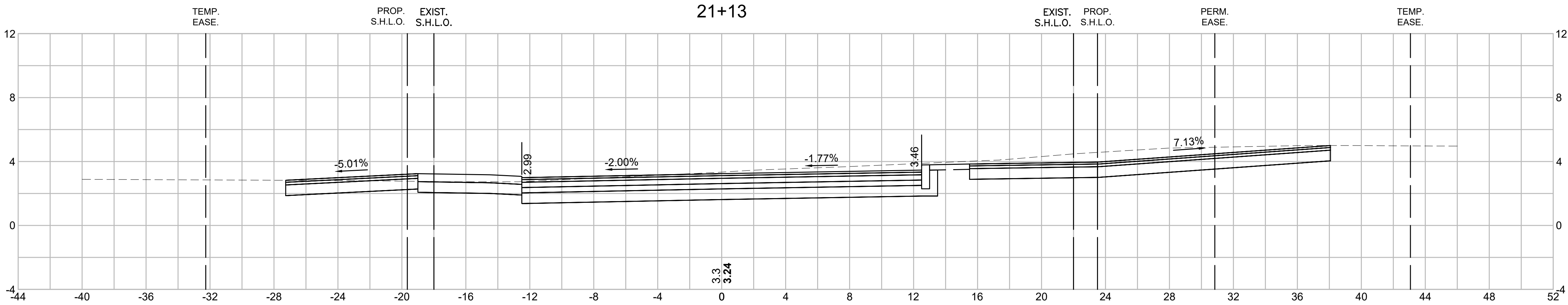
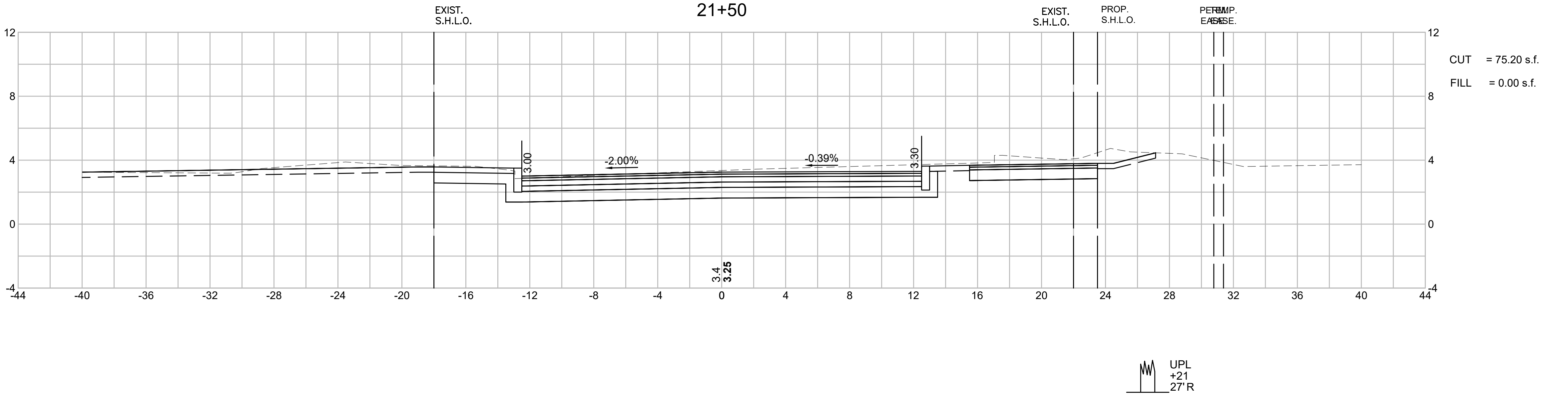
CUT = 48.74 s.f.
FILL = 0.20 s.f.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	58	71
PROJECT FILE NO.		607411	

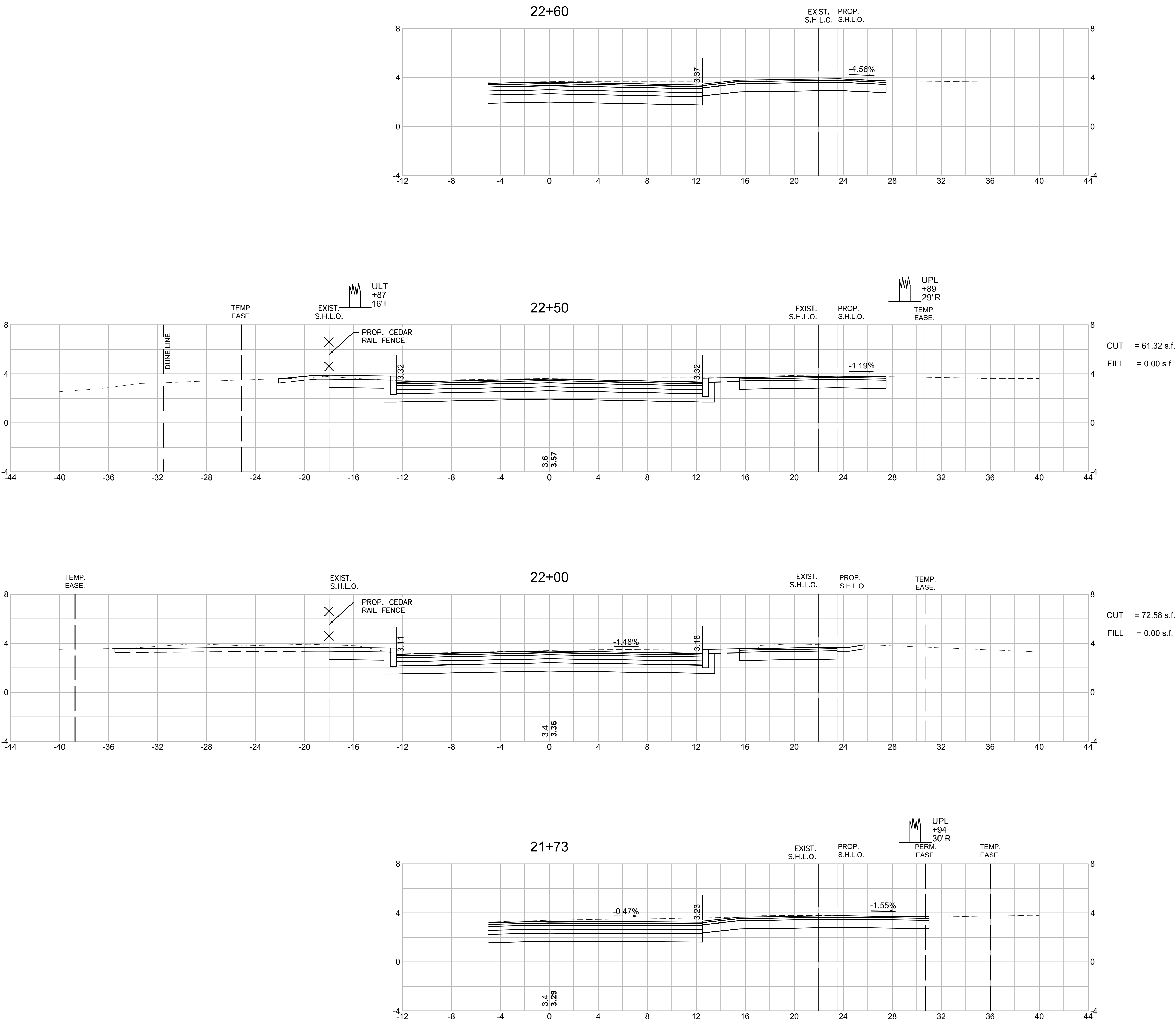
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	59	71
PROJECT FILE NO.		607411	

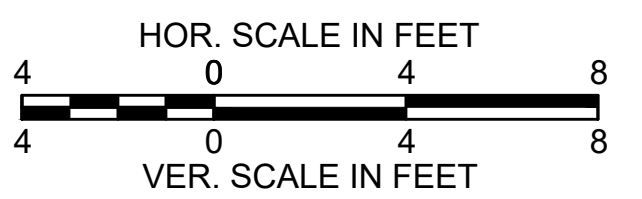
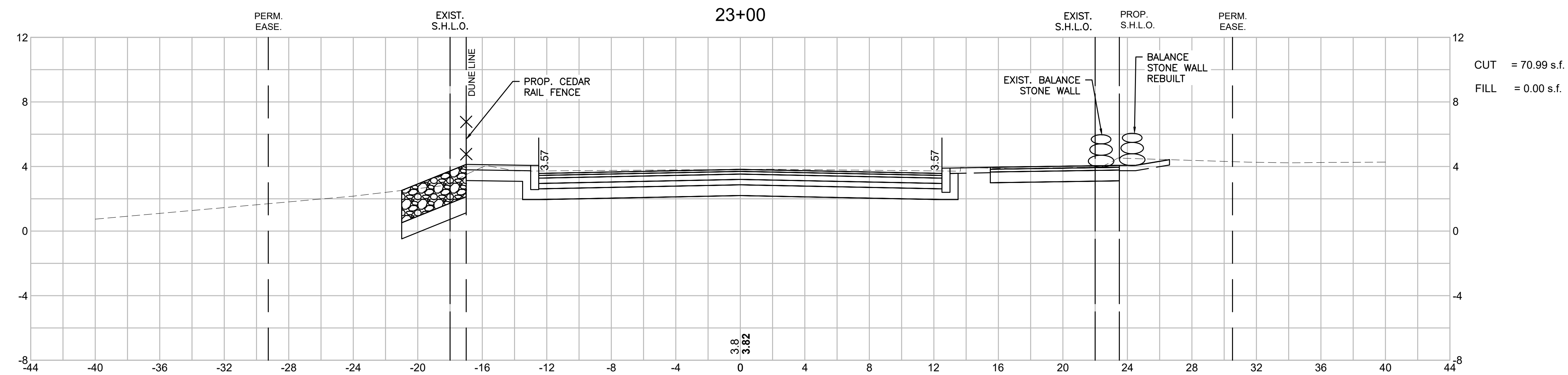
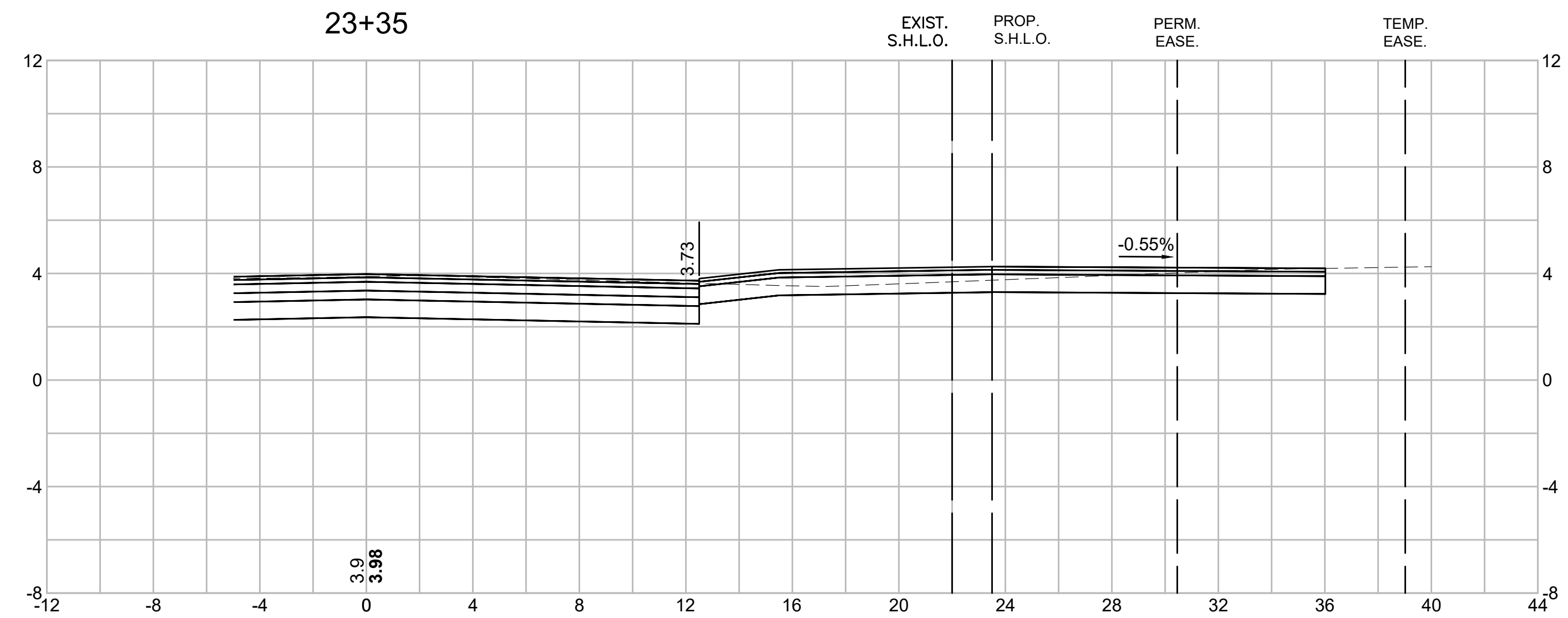
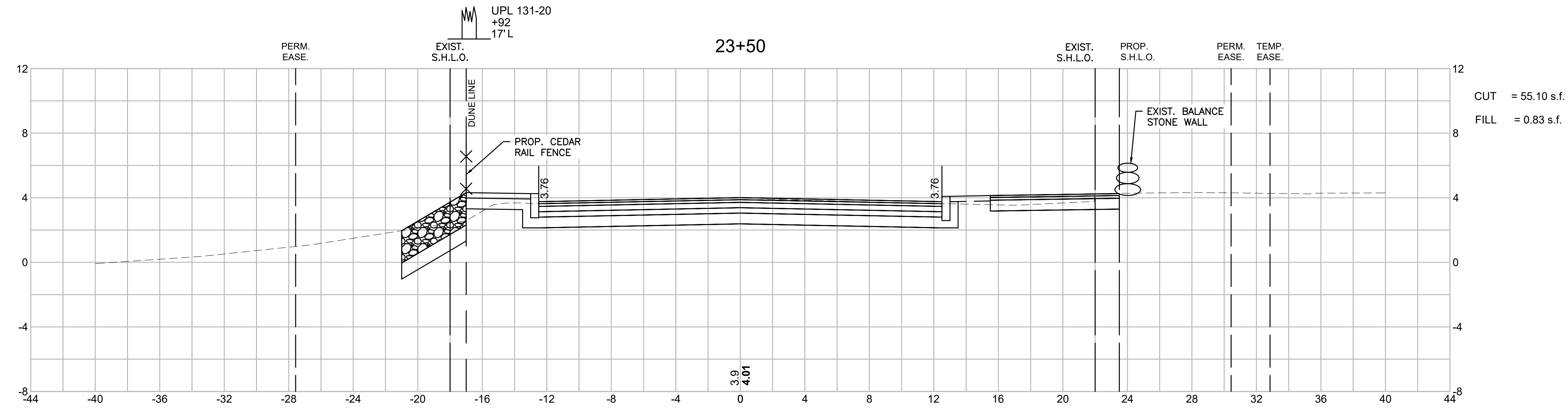
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	60	71
PROJECT FILE NO.		607411	

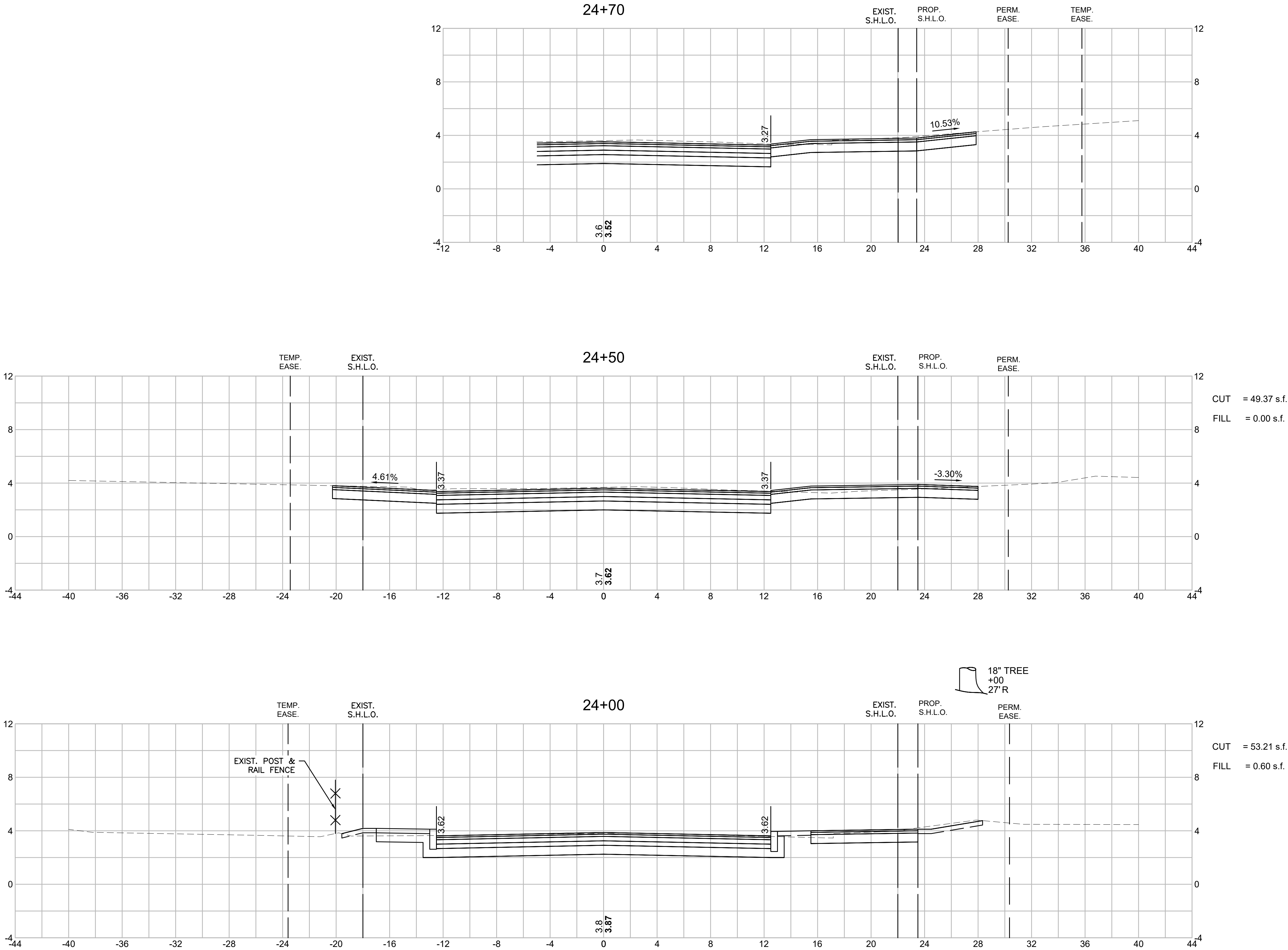
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	61	71
PROJECT FILE NO.		607411	

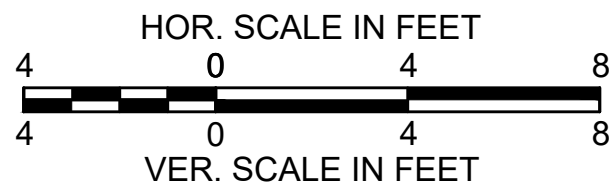
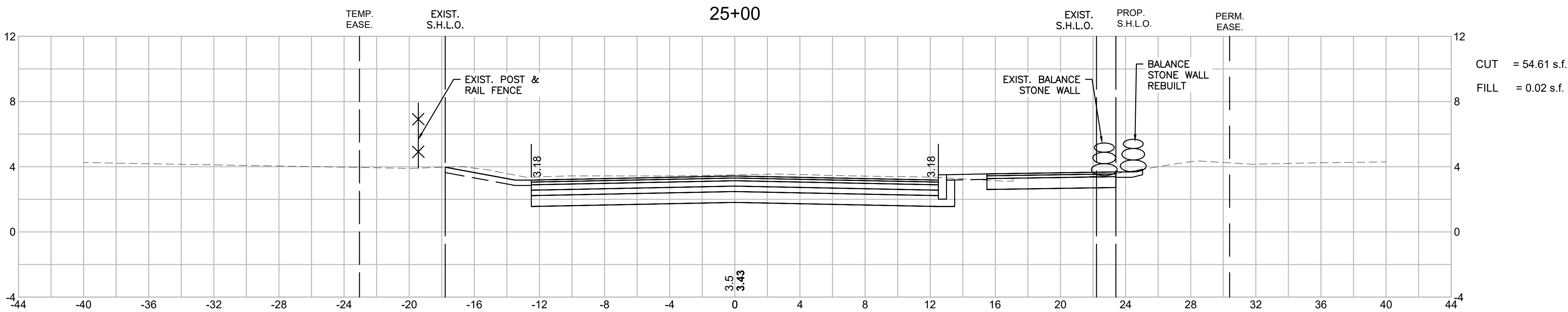
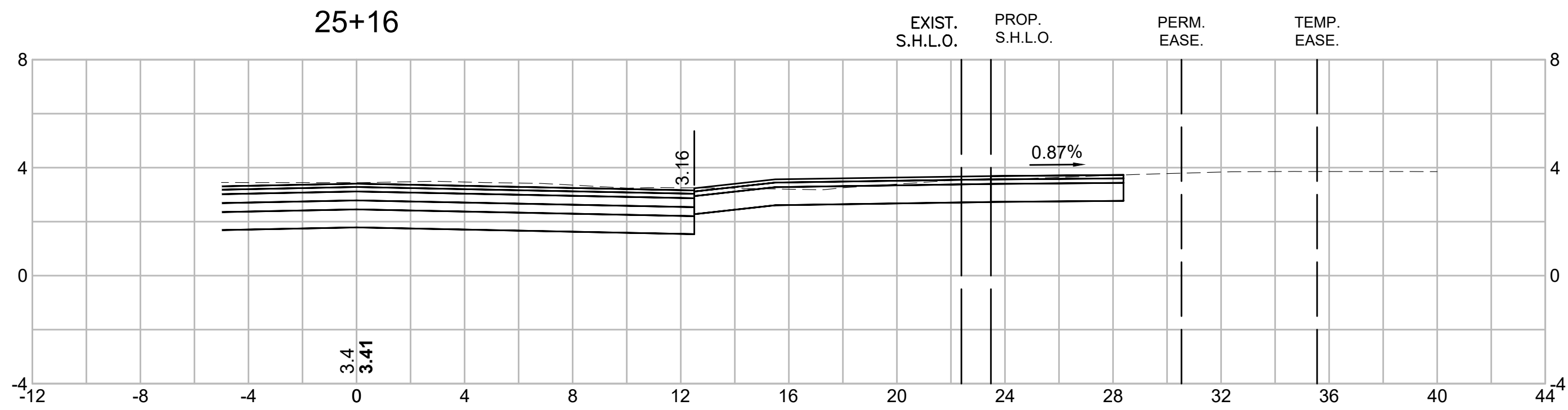
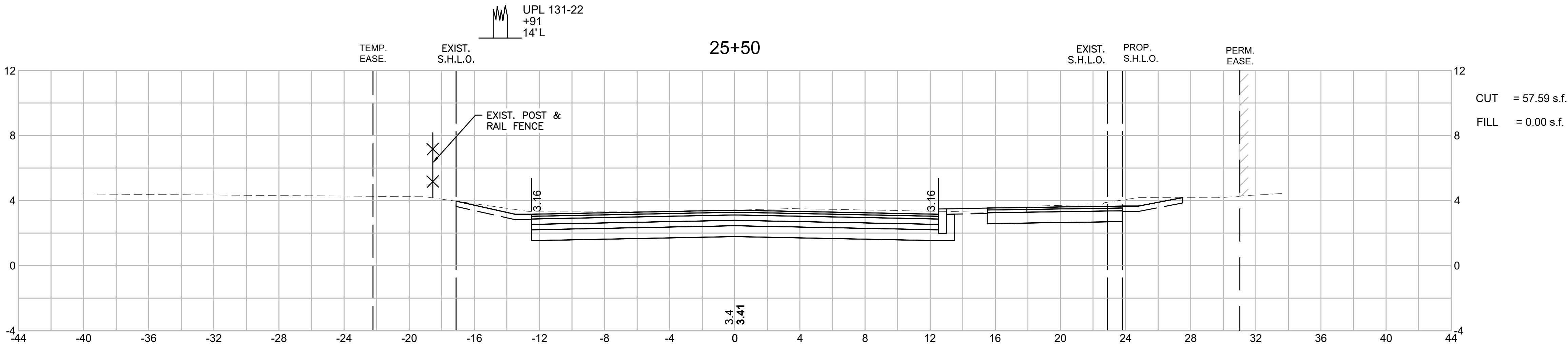
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	62	71
PROJECT FILE NO.		607411	

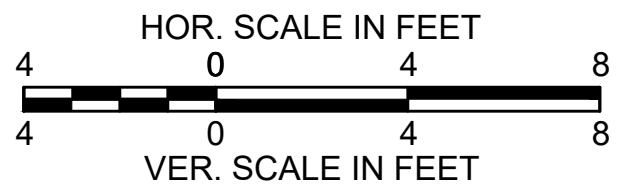
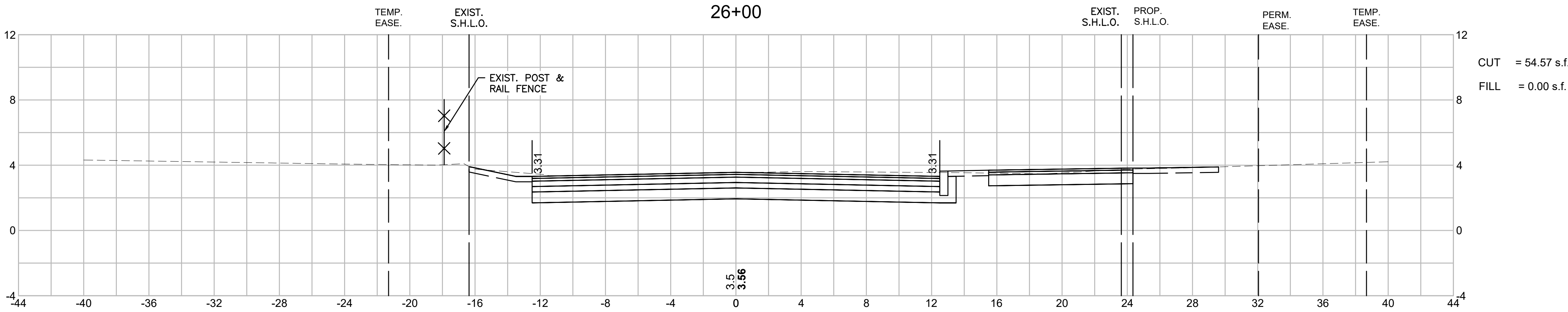
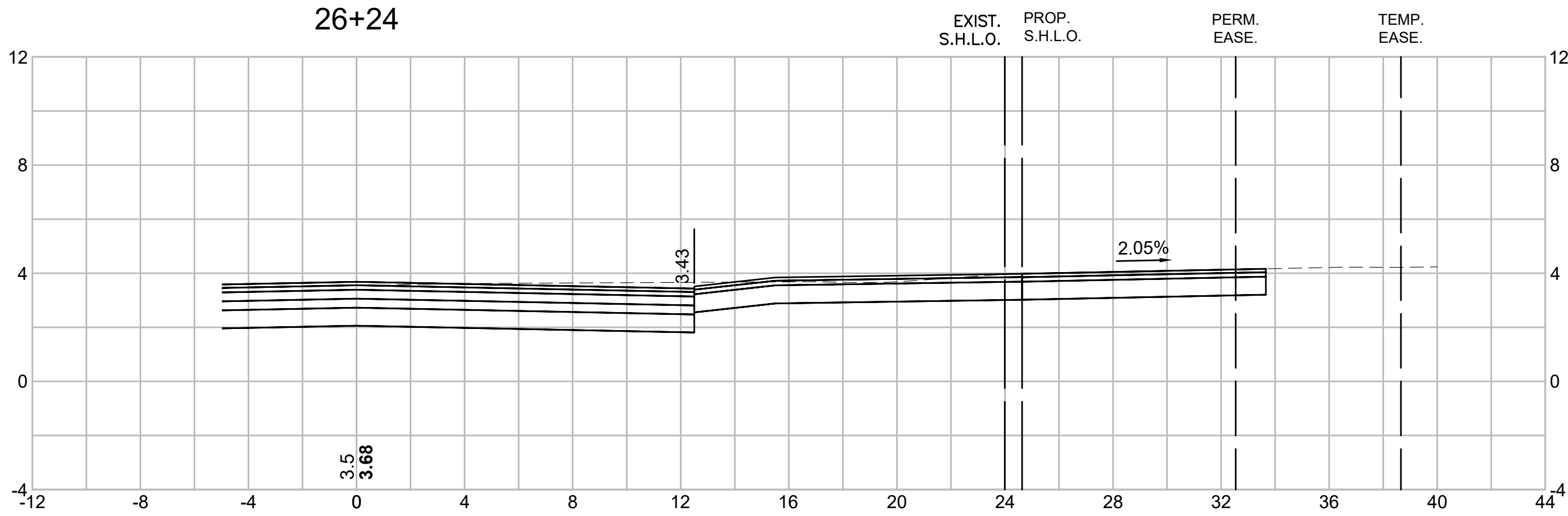
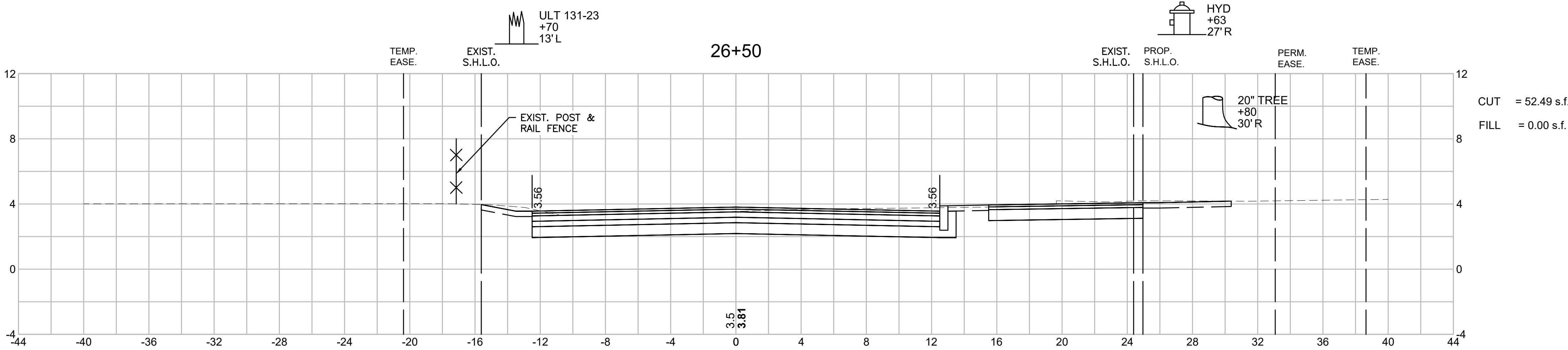
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	63	71
PROJECT FILE NO.		607411	

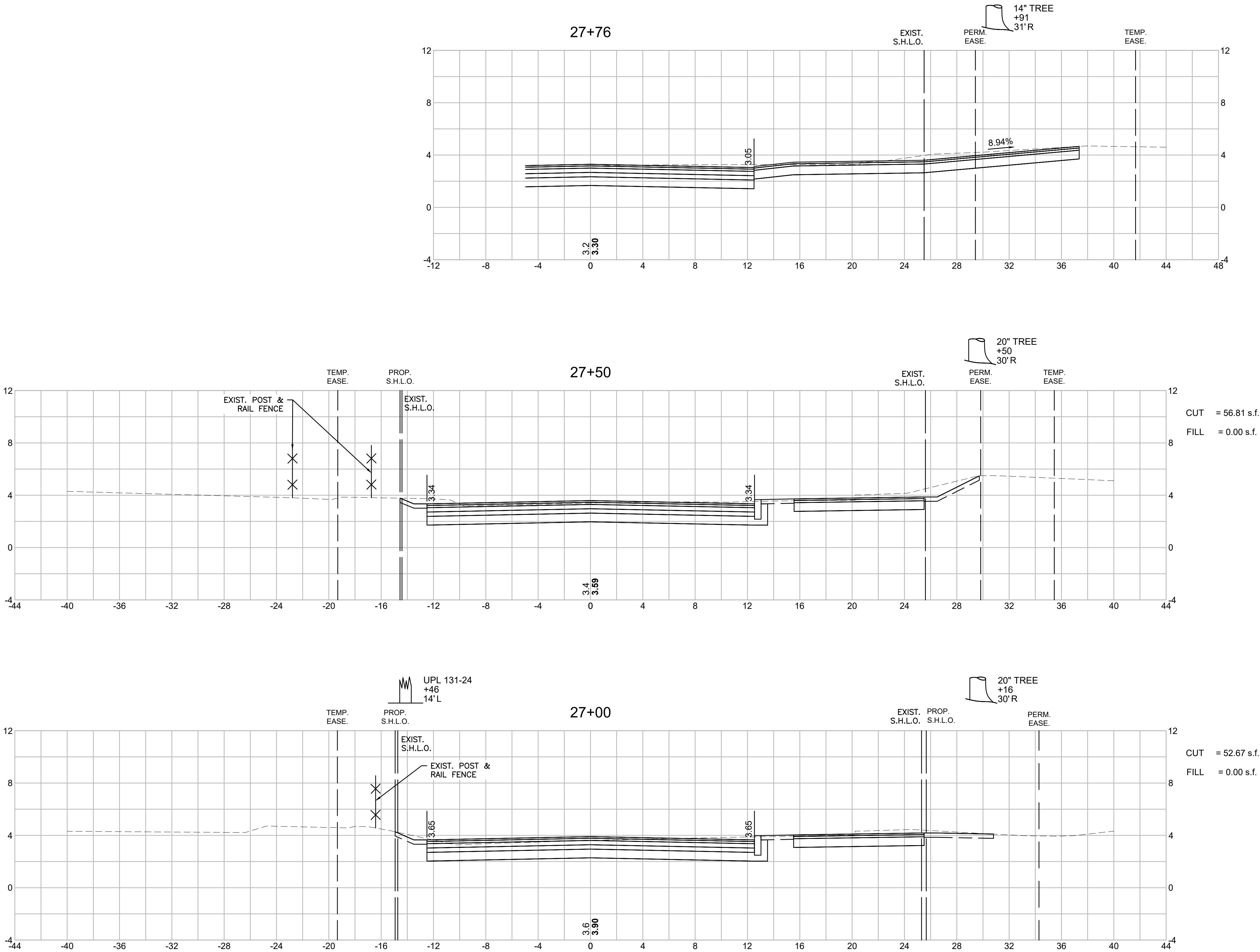
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	64	71
PROJECT FILE NO.		607411	

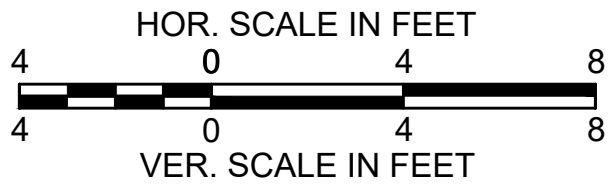
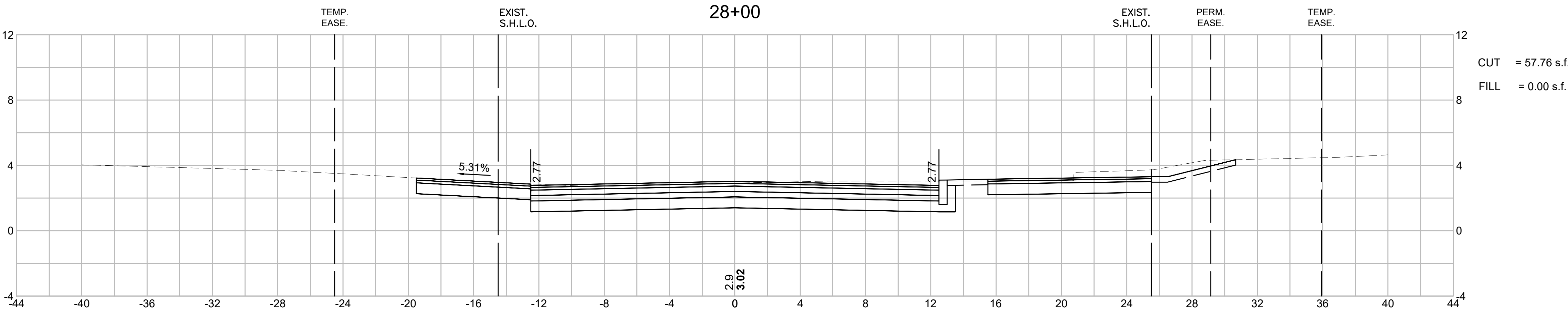
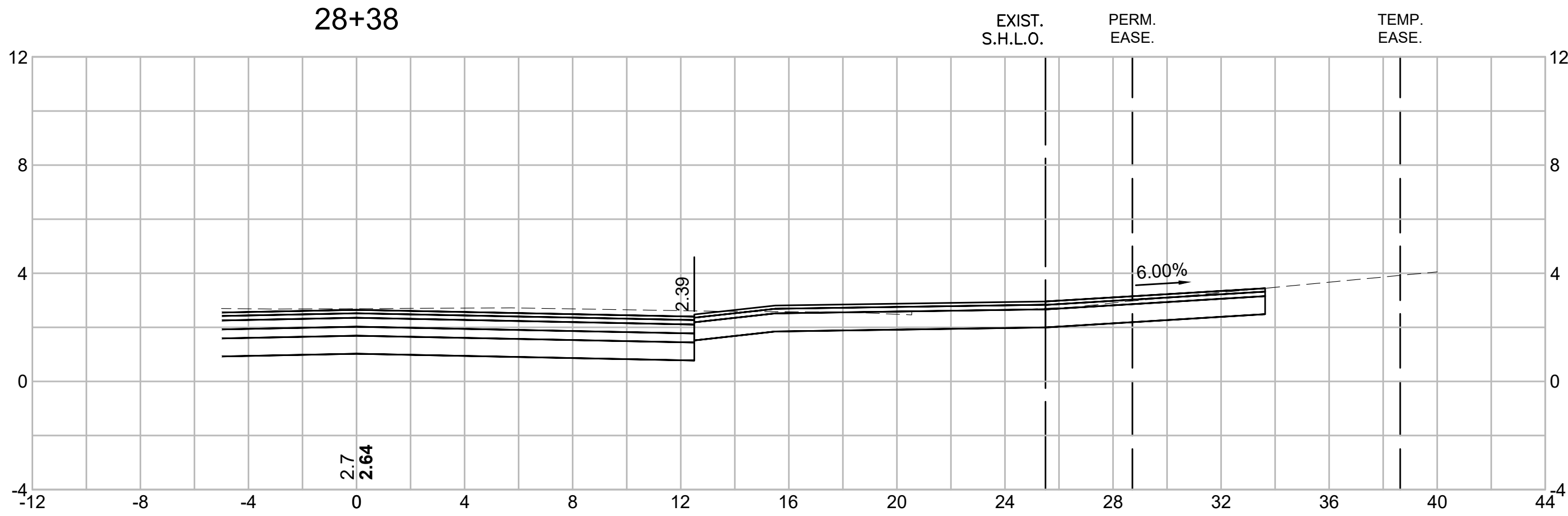
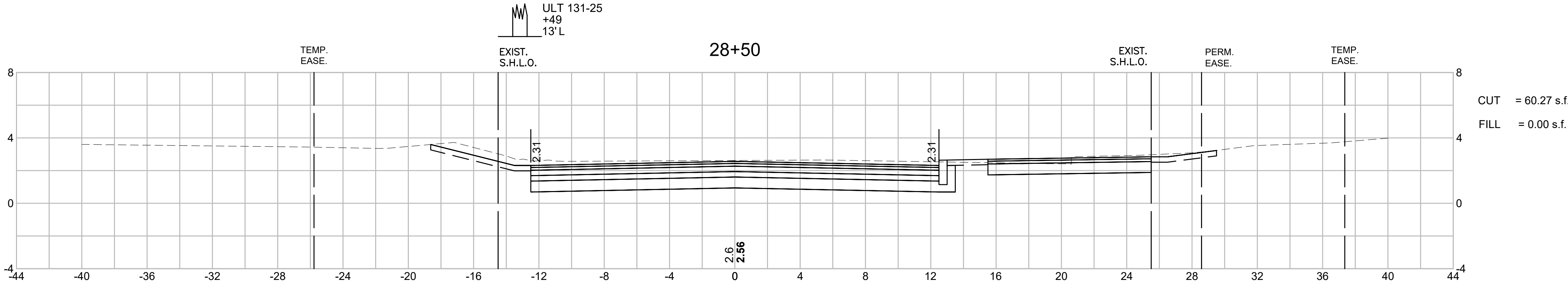
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	65	71
PROJECT FILE NO.		607411	

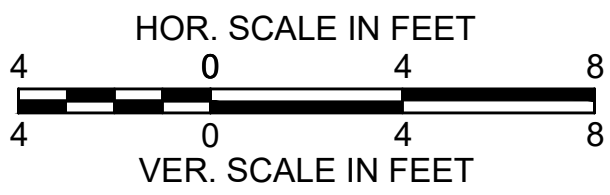
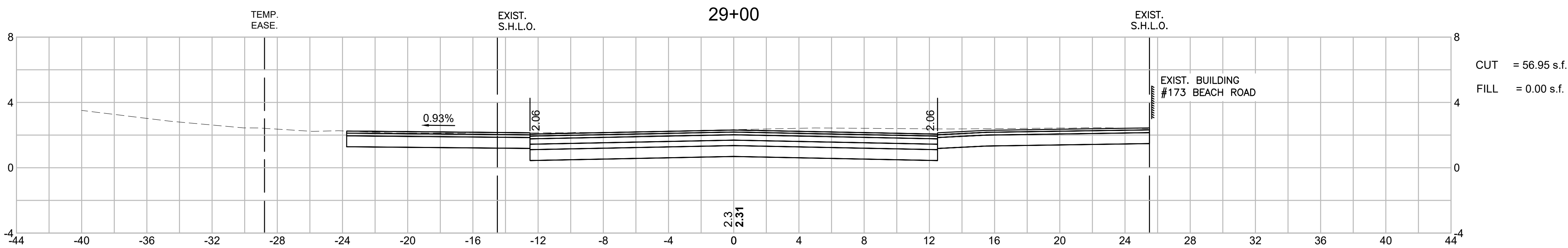
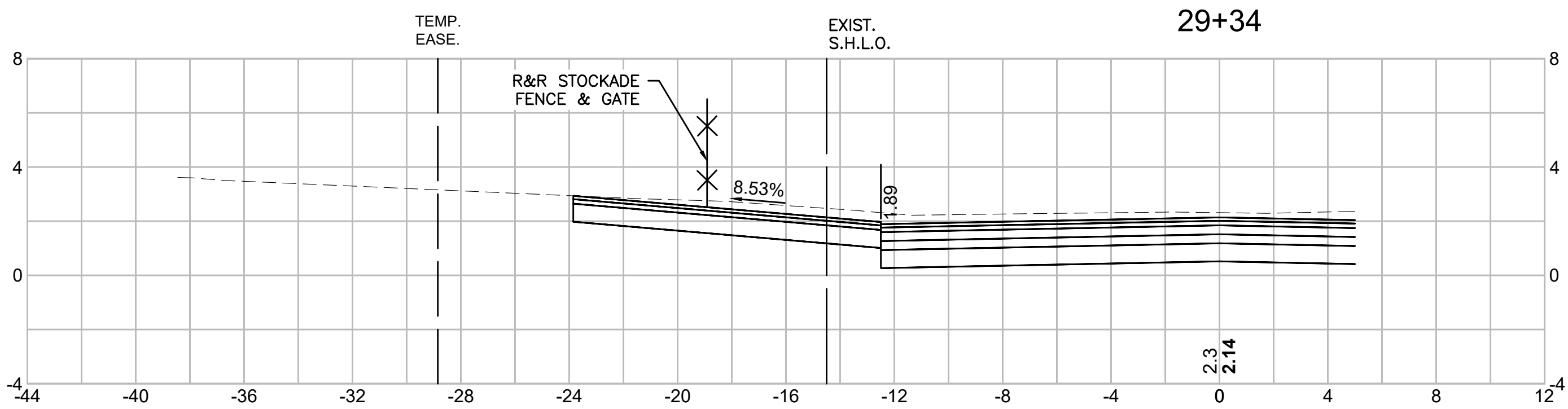
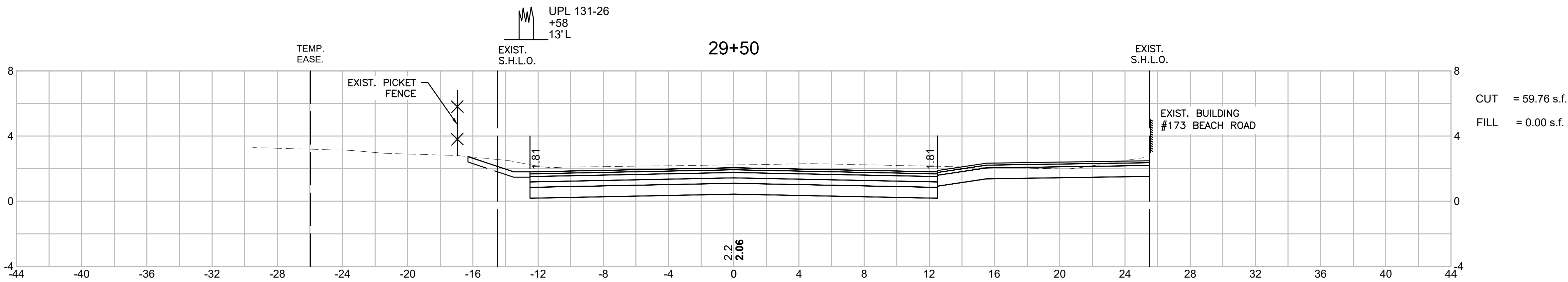
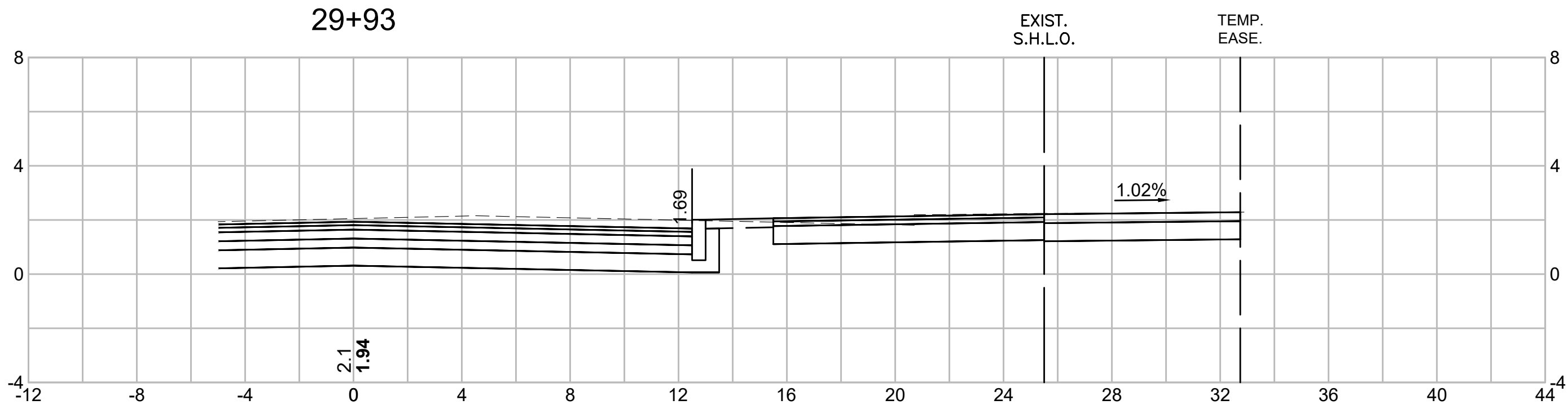
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	66	71
PROJECT FILE NO.		607411	

CROSS SECTIONS

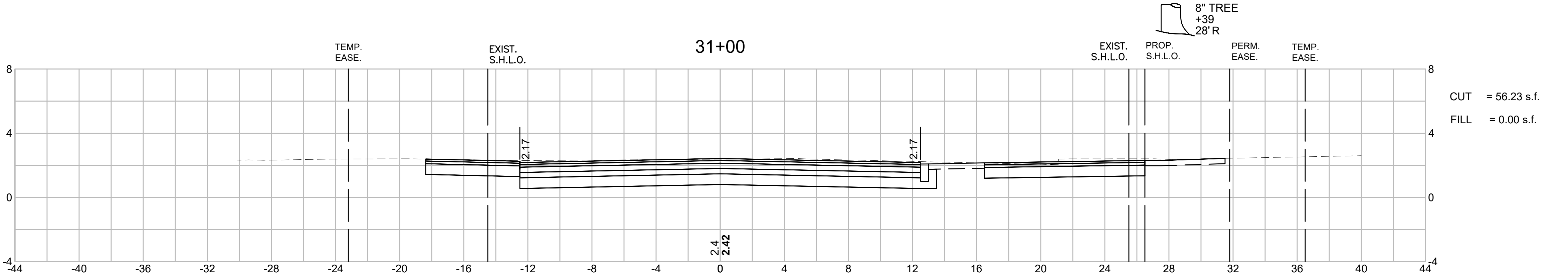
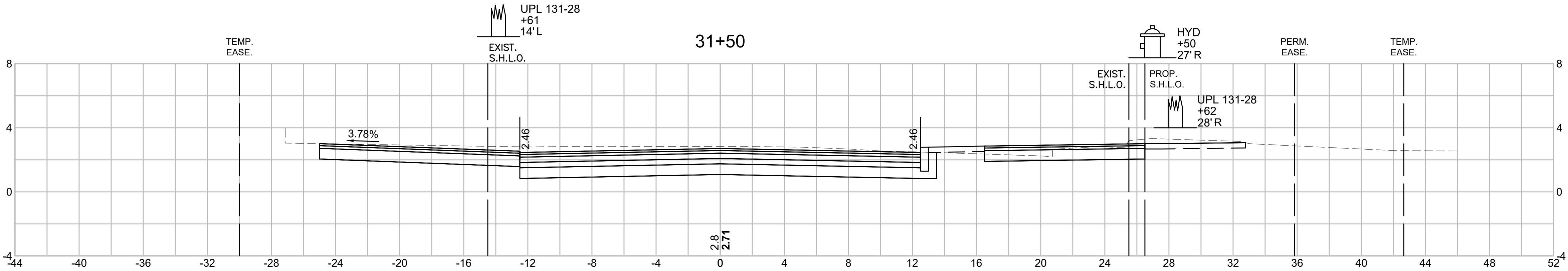


TISBURY
BEACH ROAD

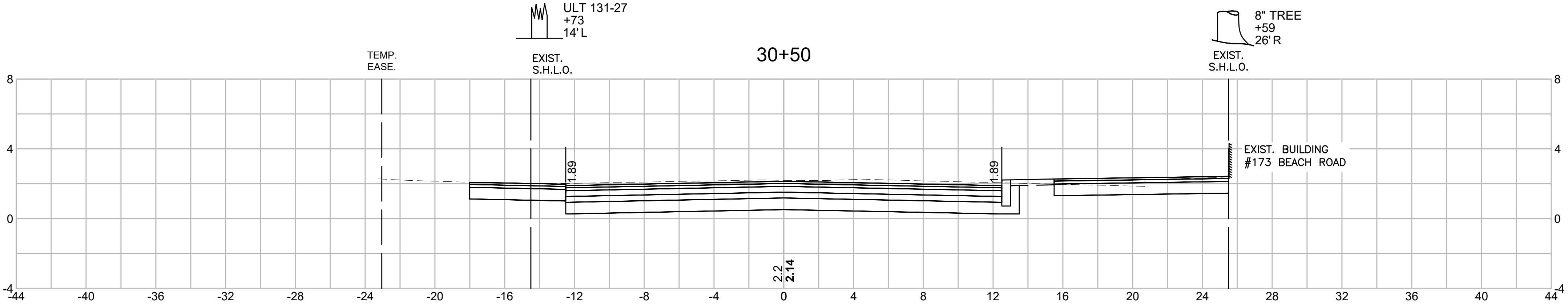
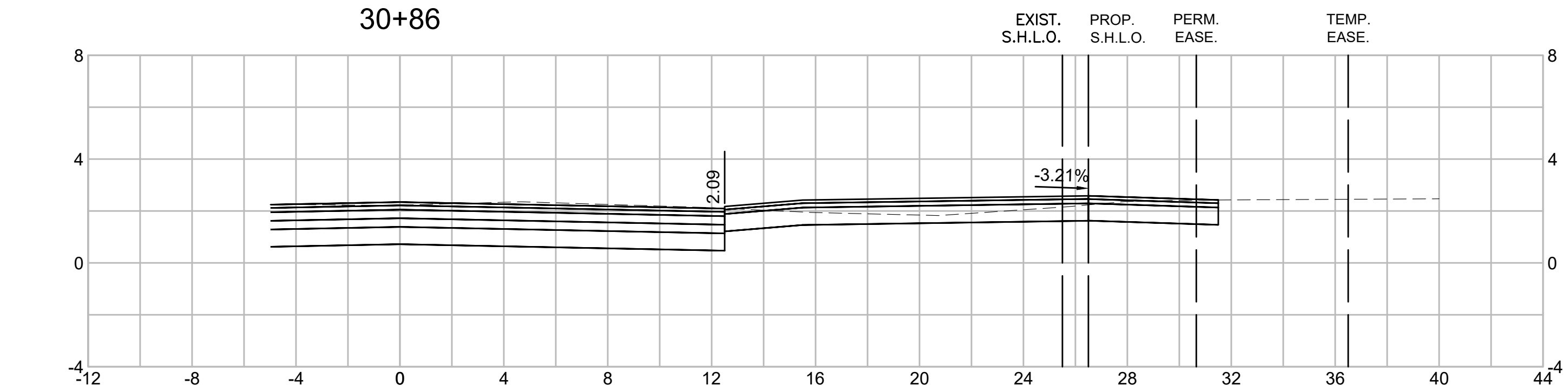
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	67	71
PROJECT FILE NO.		607411	

CROSS SECTIONS

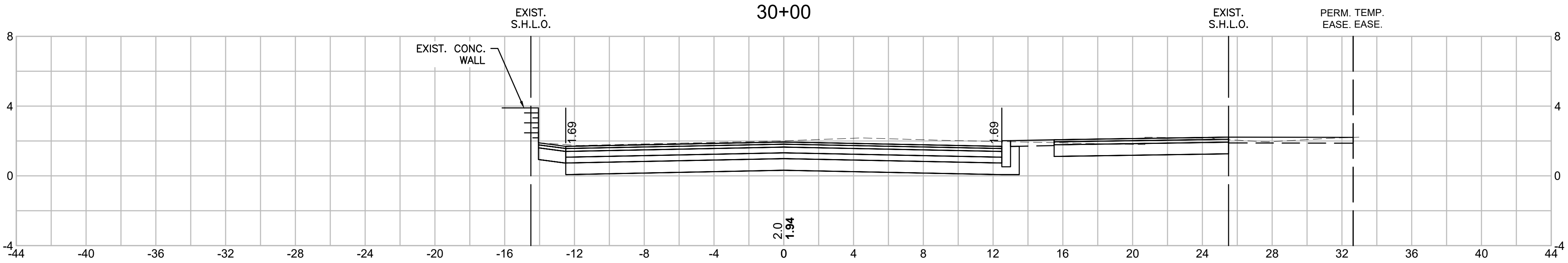
CUT = 56.61 s.f.
FILL = 0.26 s.f.



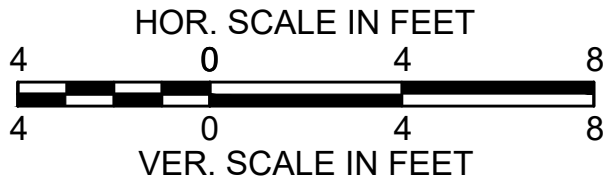
CUT = 56.23 s.f.
FILL = 0.00 s.f.



CUT = 52.97 s.f.
FILL = 0.00 s.f.

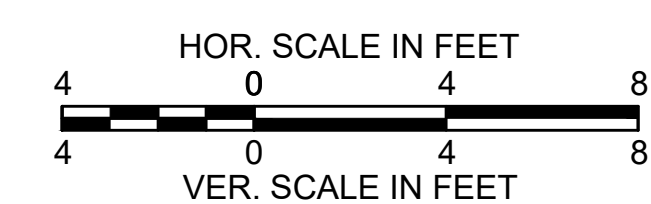
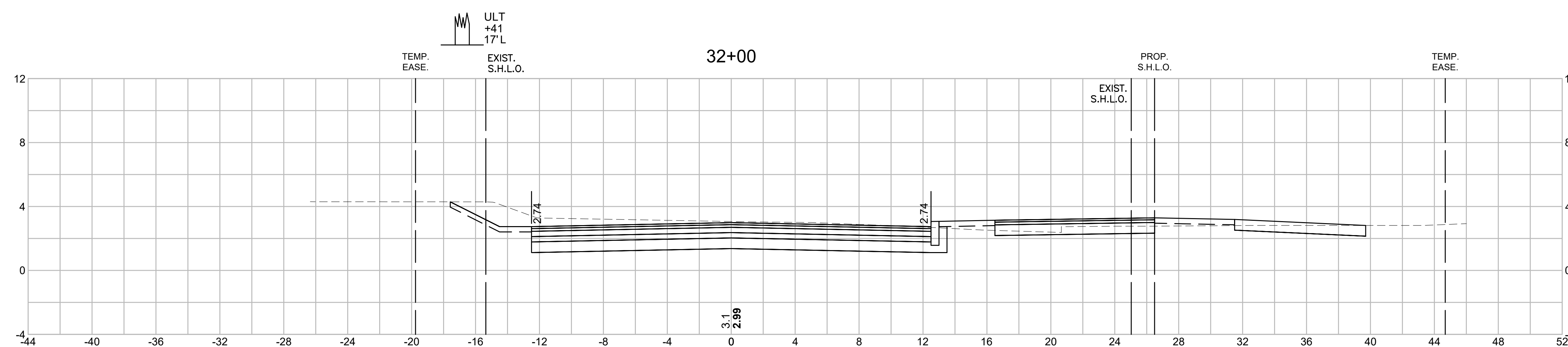


CUT = 56.19 s.f.
FILL = 0.00 s.f.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	68	71
PROJECT FILE NO.		607411	

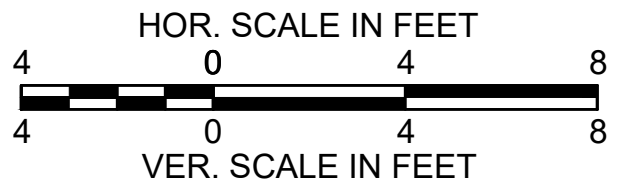
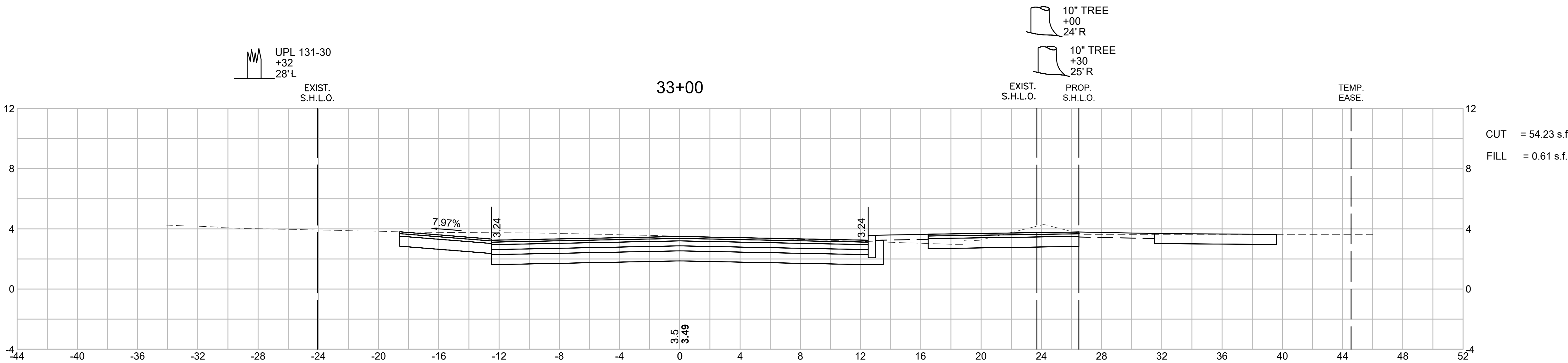
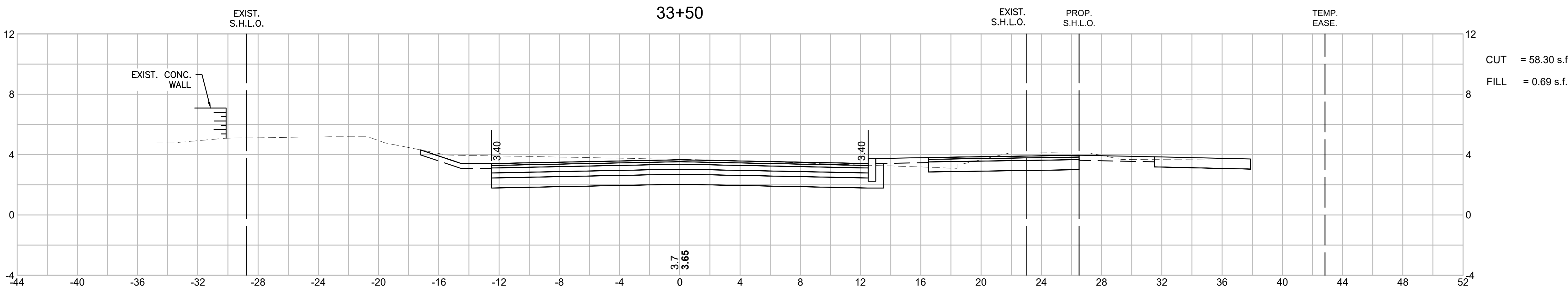
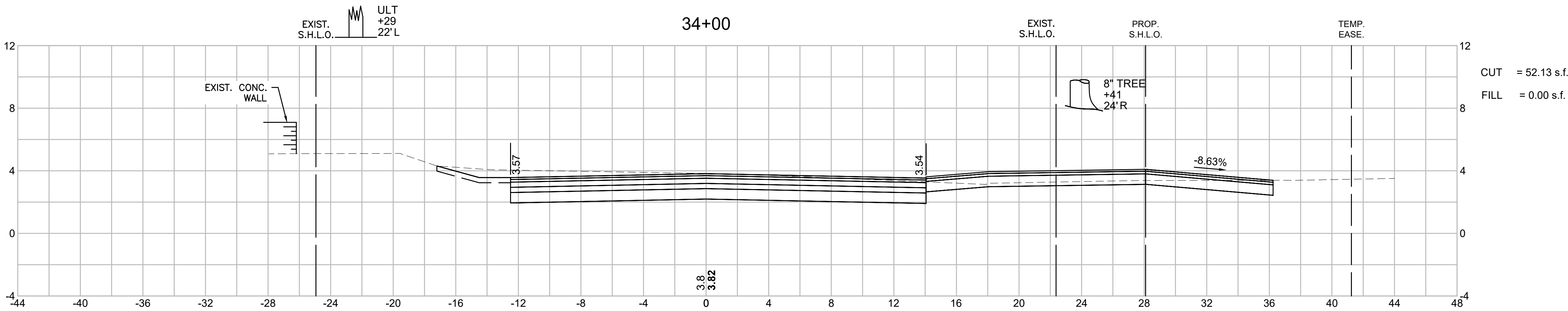
CUT = 50.50 s.f.
FILL = 0.00 s.f.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	69	71
PROJECT FILE NO.		607411	

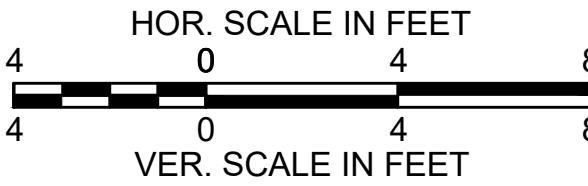
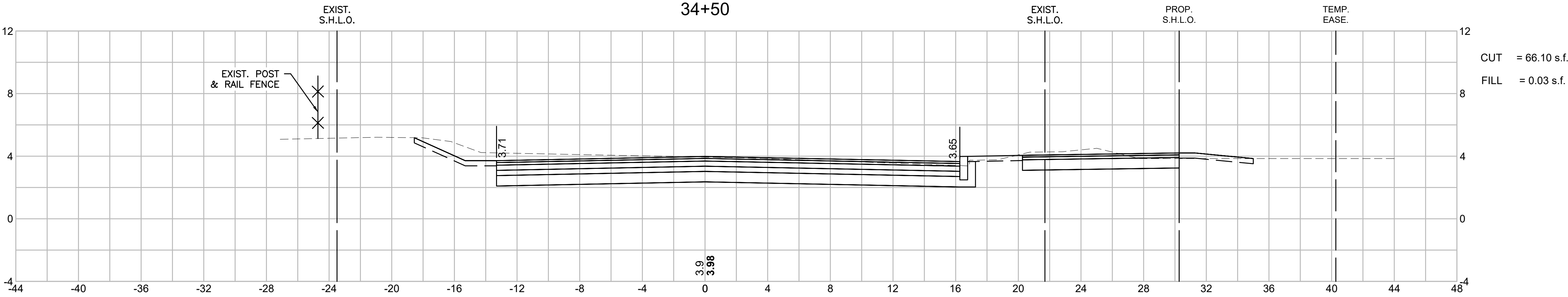
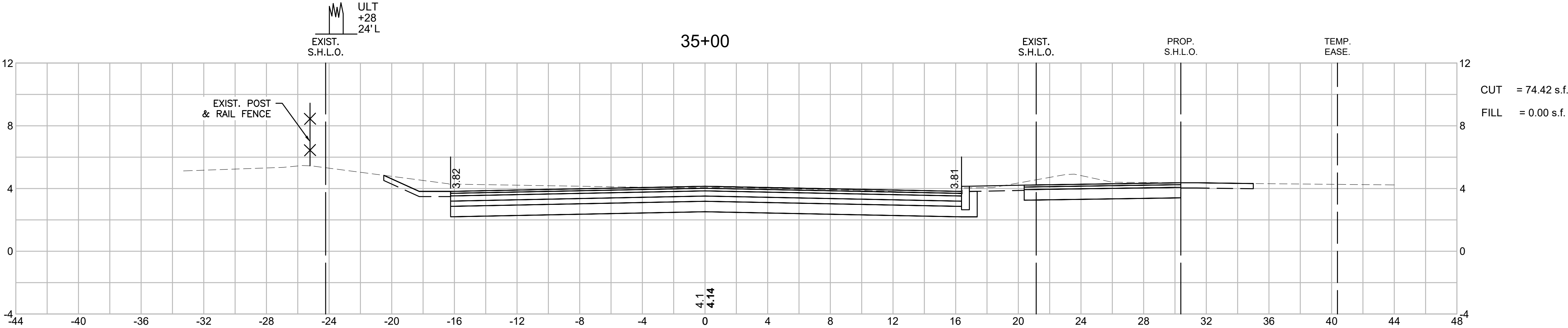
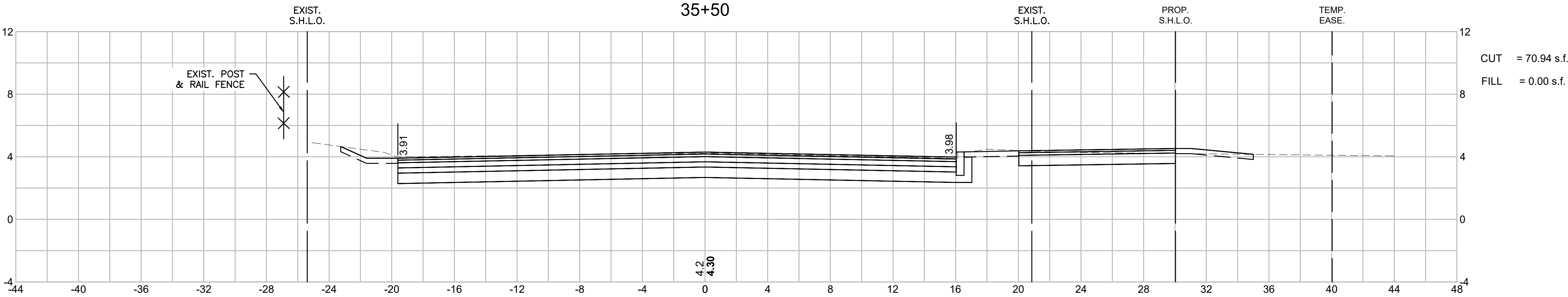
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	70	71
PROJECT FILE NO.		607411	

CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	71	71
PROJECT FILE NO.		607411	

CROSS SECTIONS

